

WESTERN CONSTRUCTION

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EQUIPMENT DIRECTORY

Who makes What and
Where it's sold and serviced
in the West

TENTH ANNUAL EDITION

A New Feature — MANUFACTURERS' CATALOG SECTION

JANUARY 1959

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Tolerances

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Inspection

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WESTERN



CONSTRUCTION

January

1959

Vol. 34

No. 1

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Published monthly by

KING PUBLICATIONS

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San Francisco 5, California

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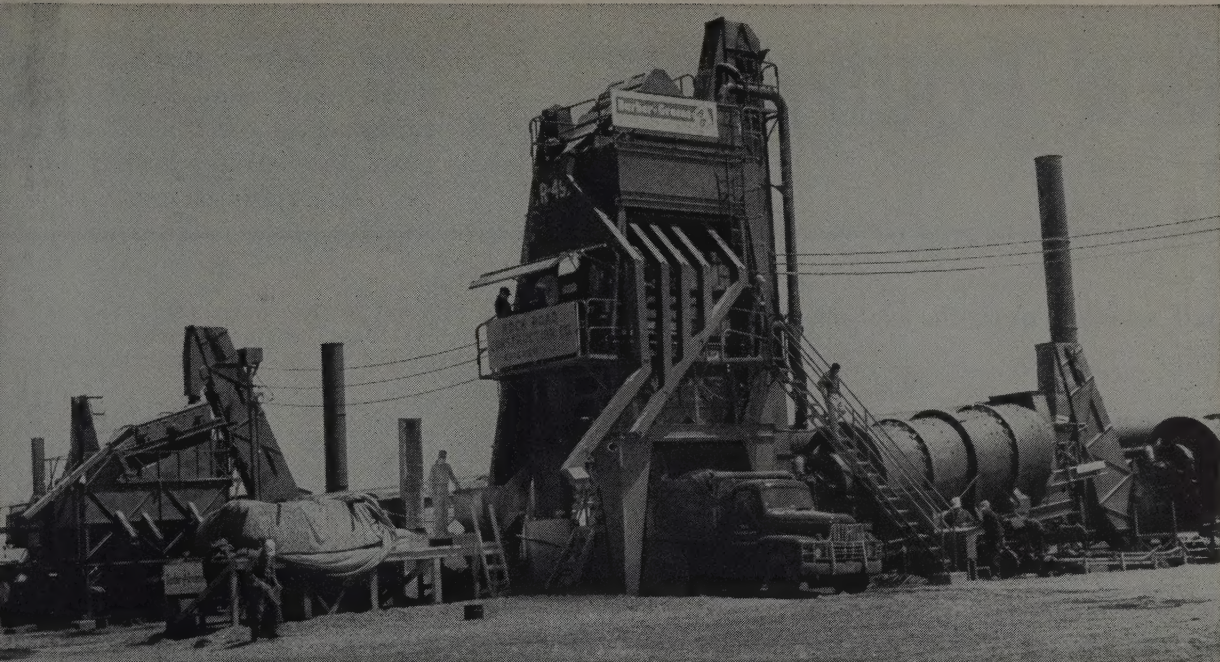
Subscription rate is \$10.00 per year; \$12.50 in foreign countries. Cost per single copy is \$1.00. Cost per single copy of Construction Equipment Directory, published each January, is \$5.00. Every regular qualified recipient of Western Construction receives a copy of the Construction Equipment Directory bound into the January issue.

Accepted as Controlled Circulation publication at Portland, Oregon. Postmaster: Please send Notice 3579 to Western Construction, 609 Mission Street, San Francisco 5, California.

For change of address, write Circulation Dept., 609 Mission St., San Francisco 5, Calif.

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For 33 Years serving the construction needs of the 11 Western States



At left is the Barber-Greene Continuous Plant; at right is the BatchOmatic. Together these plants produced all asphalt tonnage on the test road. Both proved their ability to meet abnormally rigid specifications.

Barber-Greenes meet tight AASHO test road specs

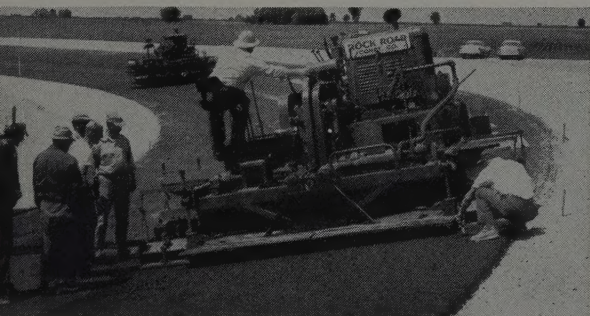
Two Barber-Greene Asphalt Plants, a continuous type and a BatchOmatic, produced every ton of asphalt mix on the AASHO test road near Ottawa, Ill. Every ton was laid with Barber-Greene Finishers.

Specifications on this important test road were more rigid than any normally encountered in highway work. Probably no asphalt mixing and paving equipment has ever before been called upon to meet such close tolerances.

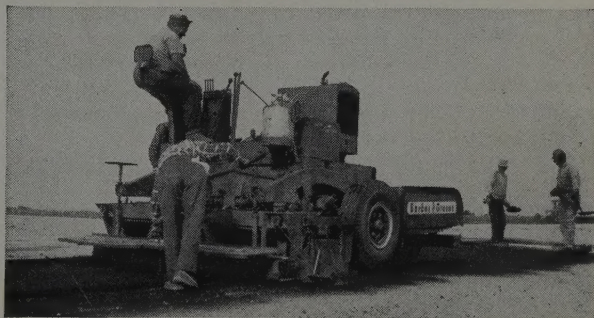
Hundreds of combinations of asphalt mixes and base

and surface thicknesses were required. Each operation had to fall within the time limits specified by a rigid time schedule.

"We knew that Barber-Greene Asphalt Plants and Finishers had the ability to meet these rigid specifications," commented the asphalt contractor, Rock Road Construction Company of Chicago. With over 20 years' experience in the operation of Barber-Greene Asphalt Paving Equipment, the results again justify their confidence in Barber-Greene.



Paving steep super-elevations while staying within close specification tolerances was just one of the stringent requirements successfully met by Barber-Greene Finishers on the test road.



Paving on crawlers and traveling on rubber, the new Barber-Greene Model 873 Finisher paved all the test road's 6' asphalt shoulders in four days—at 64 different locations.

58-48-AL

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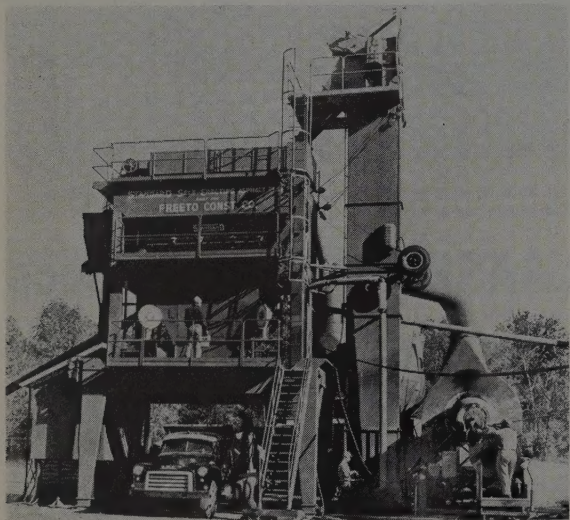
... for more details, circle No. 12 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

NEW EQUIPMENT

Obtain more information on these new developments in construction equipment by circling the corresponding numbers on reply postcard.

Self erecting portable asphalt plant

For jobs that require a fast setup, combined with high production capacity and portability, **Standard Steel Corp.**, has introduced its new Model S-E. The model has used some of the design principles from the company's trailer-mounted plant and applied



these features to the new S-E portable. The new unit is available in batch capacities of 4,000, 5,000 and 6,000 lb. The machine may be set up and made ready for operation in as short a time as two or three days. It literally lifts itself up by its own bootstraps when being assembled. It represents Standard's answer to contractors who have been asking for a highly portable plant that could produce at the same rate as the stationary types of plants.

The units travel on wheels to the job site and the mixing unit is pulled directly under the hoist section. The plant then literally lifts itself up with the use of a self erecting power device, without the use of a crane. The dryer along with the dust collector are wheeled into position and supported on built-up jack legs. As soon as storage tanks, mobile feeder and oil heater are positioned, the plant is ready to produce.

... Circle No. 150

Three buckets on new model Trojan

Featuring three interchangeable buckets on its new Trojan 124, the **Trojan Division of The Yale & Towne Manufacturing Co.**, has introduced a 4-wheel drive tractor shovel. The buckets are: 1½-yd. for general utility, 1¼-yd. for heavy materials and a 2-yd. bucket for light materials. The machine has a 10,000-lb. lifting capacity and can function at maximum

efficiency with any of the bucket sizes. The unit is powered by GM diesel engine, Hercules diesel or Hercules gas. Model 124 has a planetary torque con-



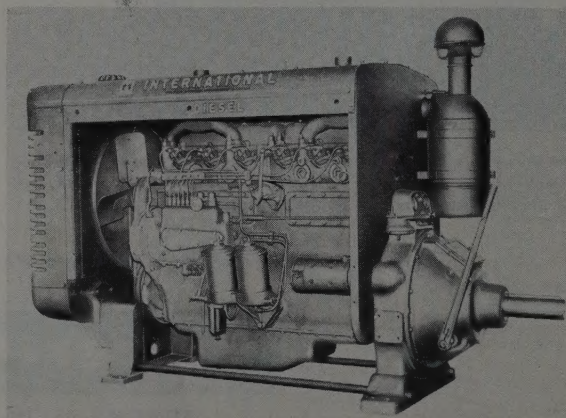
verter and planetary axles to distribute stresses equally to all gears. Power is automatically transferred to wheels having better traction.

Shifting into any of the forward or reverse speeds can be done at full throttle. Travel speed range is from 3 to 21 mph. Hydraulic power steering is provided. The low curve safety arms give the operator full circle vision and corresponding personal safety at all times. Model 124 has a dumping clearance of 10 ft. 3 in. under the hinge pin and 8 ft. 4 in. under the bucket edge.

... Circle No. 151

IH adds four new diesel models

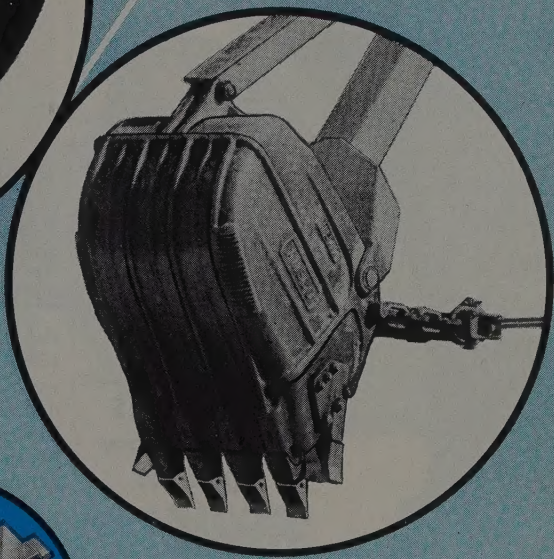
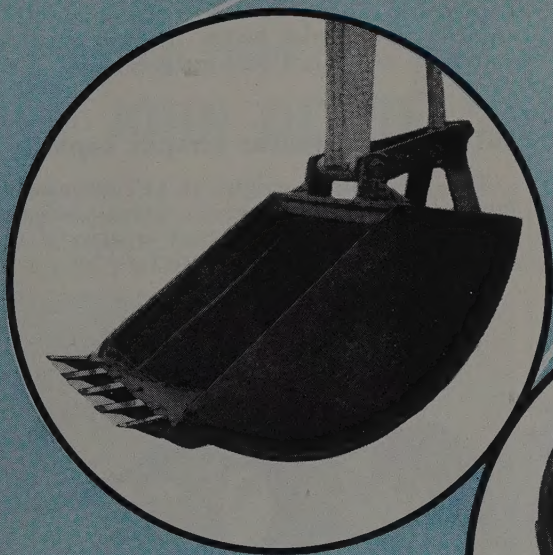
Adding to its line of diesel power units, **International Harvester Co.**, has introduced four diesel engines. The units have been designated UD-554,



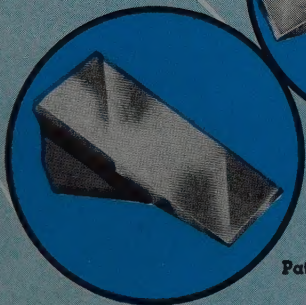
UD-370, UD-282 and UD-236. Increased power and faster heat dissipation has been made possible by increasing the cylinder bores ⅛ in. through the use

H&L

Teeth that really dig



PAT. NO. 2,568,075
PAT. NO. 2,669,153



Patent No. 2807105

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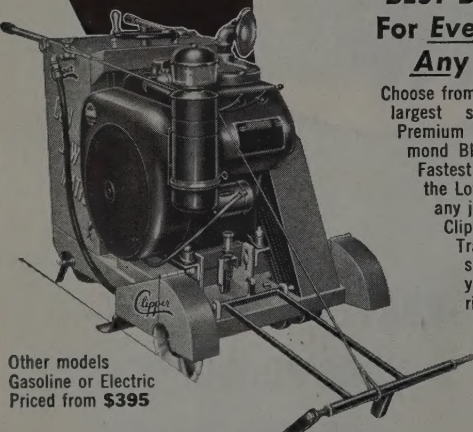
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Leadership
by Men Who
Know the
Concrete
Sawing
Industry



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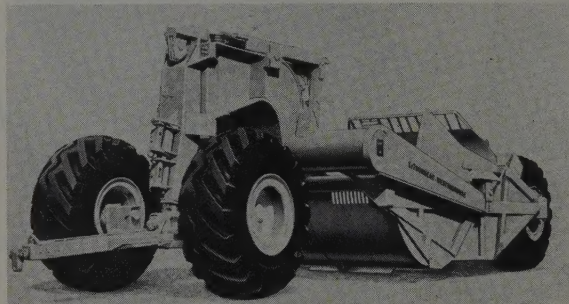
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of new thin-wall replaceable sleeves. Aluminum alloy pistons on UD-554 and UD-370 provide a 16.4:1 compression ratio with excellent fuel economy. Five piston rings are provided, all of them above the piston pin. Sizes and power output range from 121 net hp. for the 6-cylinder UD-554 to 65 net hp. for the UD-236 at 2,400 rpm. Ability to operate continuously at 2,400 rpm. makes these power plants particularly suitable for centrifugal pump use. Direct electric starting also makes the two smaller units extremely well suited for emergency use.

... Circle No. 152

LeT-Wesco increases scraper capacity

The BT Fullpak scraper of LeTourneau-Westinghouse has been increased in struck capacity from 18.7 to 21 cu. yd. The heaped capacity of the unit is 27 yd. This is the largest tractor-drawn scraper in



the LeT-Wesco line and is designed for tractors of 150 hp. or more. The added capacity of nearly 3 yd. was accomplished by minor changes that in no way disturbed the easy loading characteristics of the Fullpak design. This loading ability is emphasized by the flat position of the bowl floor which has only a 1-deg. tilt when in loading position.

... Circle No. 153

Snow plows for Case Terraload'r

Snow plows in both the V and angling design are now available for the Case W-9 Terraload'r. These plows have been announced by J. I. Case Co., and

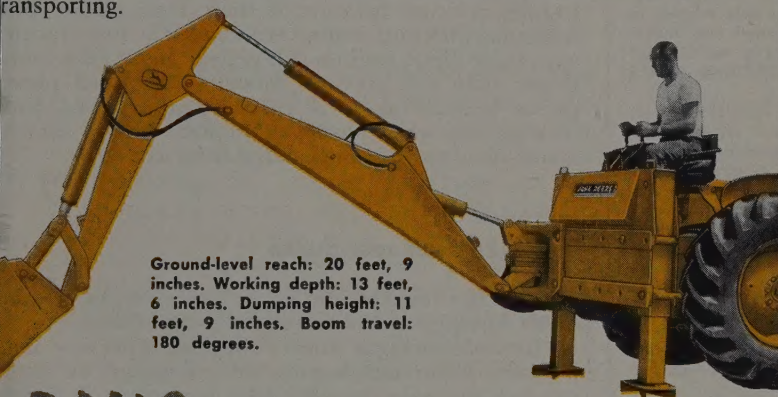


either type can be installed on the tractor in a matter of minutes using four mounting pins which normally secure the loader bucket. The V plow has spring loaded deflectors along the top of the blade which can be adjusted for the snow conditions. The plow rides on three skid shoes which are adjustable in

JOHN DEERE

roducing the FIRST 5-POSITION CKHOE in the Field... IE *New* JOHN DEERE No. 51

man with a wrench can set the boom on this John Deere 51 Backhoe in any of five mounting positions—in 15 minutes or less. End position at right or left speeds flush-digging along buildings. End mounted, boom folds against tractor to make a compact, well-balanced unit for transporting.



Ground-level reach: 20 feet, 9 inches. Working depth: 13 feet, 6 inches. Dumping height: 11 feet, 9 inches. Boom travel: 180 degrees.

PLUS

a brand *New* center-position BACKHOE...

THE JOHN DEERE No. 50



Working depth of the John Deere 50 Backhoe is 13 feet, 6 inches. Bucket has side-cutting edges and replaceable teeth.

's reach and power to tackle any trenching job! Center-mounted boom has a 20-foot, 3-inch reach at ground level, swings smoothly through a 205-degree arc by hydraulic power. Two control levers do the job, while operator sits in comfort. Same hydraulic system that operates the backhoe also powers loader.



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City

FLYGT

FLYGT PUMPS SAVE OVER \$55,000 ON DIFFICULT CALIFORNIA AIRPORT JOB

In the extension of runways for the Long Beach Municipal Airport, contractors built traffic underpasses for two main arteries in the City's roadway system. While under construction one underpass — Spring Street — presented some interesting and difficult de-watering problems. FLYGT SUBMERSIBLE ELECTRIC PUMPS proved a cost-saving solution to these problems.

The Contractor's first impulse was to install a well-point system for de-watering. Investigation revealed that such a system would have cost approximately \$60,000. Then the contractor observed a demonstration of FLYGT SUBMERSIBLE ELECTRIC PUMPS. A short time later, three FLYGT Model B-80L Pumps were put on the job. Total investment in FLYGT PUMPS: only \$3,000.

With funds from a Municipal Bond issue, runways were extended to 10,000 feet over the two roads, so as to accommodate the largest jet transports. The Spring St. underpass was designed to be 1083' long, 64'4" wide, and 31' high. Excavation for the 31-foot height revealed a "joker." After the dirt moving had been completed, the contractor moved in a crane to excavate foundation areas for the structure. This work required earth removal 12-feet below the 22-foot ground water level. Water intrusion was immediate.

The job superintendent tells the story from that point in his own words: "We needed submersible pumps, each with a minimum 6000 gallon per hour capacity, that would reach a 35-foot head and move water at least 30-feet horizontally. Since the pumps would be working in both sand and clay, we had to have centrifugals which would move a heavy amount of solids. FLYGT met all those specifications, so we purchased three, 3" model B-80Ls. The nice thing about the electrically powered FLYGTs is that they can be put to work and ignored. They ran 24 hours a day on this job, and the only time we touched them was to lift and lower them with the water level, by a rope suspension. The FLYGTs easily managed to keep ahead of our water intrusion. We figure FLYGT PUMPS saved us over \$55,000 on this one job, so we adopted the FLYGT Pumping Method."

Pump operators find FLYGT PUMPS tops in performance. Users particularly like their foolproof features, the advantage that they work in any position, and the fact that they do not clog up. They can take a lot of solid stuff like mud and sand without hurting them in any way. The rubberized pump casing and hard chrome alloy impellers combine to make FLYGT PUMPS rugged equipment.

FLYGT centrifugal pumps range in size from 1½"-85 GPM capacity to 8"-3,000 GPM capacity. Head capacities range up to 210 feet. Weights range from 80 to 1200 pounds.

CHECK THESE FLYGT FEATURES

- ✓ Electric
- ✓ Resistant to Salt Water
- ✓ Submersible
- ✓ Easy to Handle
- ✓ Low Maintenance Costs
- ✓ Will Pump High Amount of Solids
- ✓ Heavy Duty
- ✓ Operates Unattended
- ✓ Runs Dry Without Damage
- ✓ Quick and Easy to Service
- ✓ No Installation Costs
- ✓ No Priming Needed



Stanco
MFGS. & SALES INC.

1666 Ninth St. (Corner of Olympic & Ninth)
Santa Monica, California

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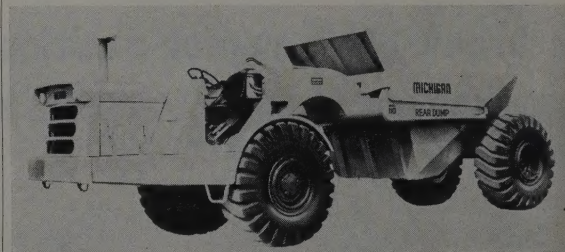
setting the cutting edge at a required height. The angling snow plow can be tilted 45 deg. left or right in a light duty model and 31 deg. on a heavy model. The 4-wheel drive coupled with torque converter and extra large tires give the W-9 the ability to handle heavy snows. Optional all-weather cab for operator comfort and safety is available. ... Circle No. 154

Deere adds diesels to tractors

Diesel engines are being introduced on the Model 440 crawler and the Model 440 wheel tractors from John Deere Industrial Division. These popular tractors will continue to be offered with gasoline engines but Deere has taken note of the demand to have the tractors powered with diesel engines for reasons of operating economy and to have them fit into the contractor's fleet of equipment. The tractors will be powered by the General Motors 2-cycle diesel engines selected because of their high torque performance with outstanding economy. The new tractors with their diesel engines will deliver about 10% more power than the previous models. The rated horsepower is 33.25 at 1,850 rpm. These tractors, both crawler and wheel, have a complete line of attachments—loaders, backhoes, bulldozers, etc. ... Circle No. 155

Michigan adds rear-dump

With the introduction of a 13-ton tractor wagon, Clark Equipment Co. has added a rear-dump unit to its line of Michigan tractor wagons. The new unit is Model 110 tractor wagon and is designed for hauling rock that can't be self loaded by scraper. A design feature is the low loading height (7½ ft.) which permits it to be filled by almost any power shovel, conveyor or the larger size of tractor shovels. Made of high



strength steel the wagon has a heaped capacity of 12 cu. yd. and 8.3 yd. struck. It is rated at a 13-ton load.

In the loading position the hydraulic system of the machine is completely shrouded to guard against damage from falling rock. When dumping the double acting hydraulic cylinders tip the load out the rear. The wheel base shortens as the rear wheels and axle pivot forward during dumping. By a simple operation the operator can use the power of the tractor engine to speed the dumping of heavy loads.

The tractor part of Model 110 is interchangeable with the tractor on the Model 110 scraper. The new tractor wagon was placed on display for the first time at the Mining Show in San Francisco. ... Circle No. 156

(Turn to page 164 for more New Equipment.
New Literature can be found on page 154.)

Recommendations that affect Highways

THE WEST was host to the American Association of State Highway Officials last month at its 44th annual meeting. At this meeting the emphasis was on problems of Federal financing, the progress and future of the Interstate System, and the rising estimates of highway costs. Most important is the increasing gap between money going into the Highway Trust Fund and the demands on this fund, both today and during the coming years. Solution lies in the realm of national legislation, with a probable increase in the Federal gas tax. This will send reverberations down to State legislatures where financing of the highway program becomes really acute.

During the AASHO meeting an opportunity was presented for a meeting of the joint committee of AASHO and AGC. Three recommendations came out of the meeting and were addressed to the incoming president of AASHO. These recommendations are of direct interest to highway contractors of these Western states and cover subjects which have been actively discussed in WASHO conferences.

The first recommendation urged the state highway departments to adopt "end result" specifications. Benefits mentioned included the opportunity afforded contractors to use new and improved methods and equipment. Cost savings to the public will generally result from such an approach. We have commented on this several times in the past indicating that, with certain exceptions, contractors should be told what is to be accomplished. The trend in this direction should be accelerated.

A second resolution pointed out the need for sufficient time between the advertising of highway work and the date for the bid opening. This situation is a case where theory is confronted by practical problems. Engi-

neers realize the need for adequate time on the part of contractors to study plans, inspect the site and prepare a sound bid. Engineers also understand that bidding under pressure tends to introduce factors of ignorance and the appearance of bidding errors. On the other hand, highway departments have been under tremendous pressure since the start of the Federal highway program and also know that contractors frequently fail to take advantage of the longer time that is made available. This leads to the attitude of why make additional time available when it is not used intelligently. The committee recommendation is for a minimum period of three weeks. Such a period would seem logical and in the interest of well prepared bids.

Lastly, the committee recommended that state highway departments locate suitable sources of aggregate materials, obtain realty interests, and then make them available to the successful bidder at cost. It was also recommended that the use of such sources should not be mandatory. This feature of highway construction has long been one involving problems and misunderstandings. The acquiring of aggregate sources by private individuals is subject to variations and uncertainties as compared to the more stable process of state negotiations. The recommendation is in line with consistency in bidding practice and lowering of ultimate costs.

These recommendations by the AGC have merit and deserve serious considerations by state highway departments of the West.

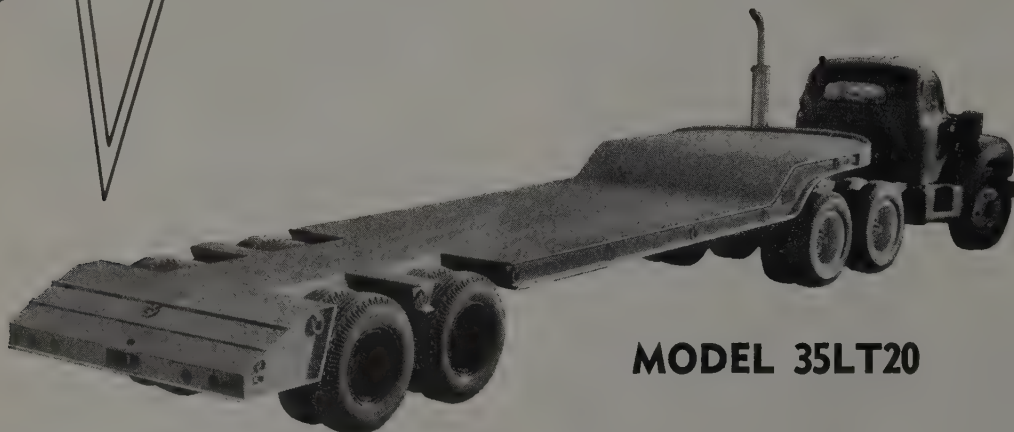
Jim Ballard

FROM ANY ANGLE . . .

IT'S THE PAYLOAD THAT COUNTS

with the Loadmaster Lo-Boy that has a full width goose neck — rubber bushed and rubber mounted walking-beam type bogie and 20-inch tires. The design of this trailer permits dual use — not only as a machinery trailer — but as a float for handling all types of construction material. This Loadmaster Lo-Boy is the lightest all steel trailer on the market today.

The 35-ton Lo-Boy is equipped with standard glad hands and jumper cable socket — standard steel heat-treated king pin — decked with Inland 4-way deck plate — 10:00 x 20 12-ply tires on ten hole Budd wheels — 16½ x 7 brakes with individual air cylinders — bogie with 18,000 pound axles — Inland 4-way deck plate cleated ramp — with recessed tow bar socket and pin in center rear frame member at toe of ramp — tool box recessed in top of goose neck at front — and D-type rigid lashing rings — 5 each side — with one swinging type on each side of goose neck — and one recessed in the rear ramp.



MODEL 35LT20

Overall width	8'- 0"
Overall length	37'- 0"
Length back of gooseneck to front wheel well	15'- 6"
Length front wheel well to back of trailer	10'- 5"
Length Gooseneck deck	8'-10"
Length center of kingpin to center of Bogie	26'- 6"
Wheel clearance from center kingpin	76"
Height—Top of loading deck to ground	41"
Height—Top of gooseneck to ground	56"
Clearance—Frame Bottom	27"
Height—5th Wheel Plate to ground	49"

Miller & Smith

Mfg. Co., Inc.

500 PHOENIX AVE., NW — STATION B, BOX 6007
ALBUQUERQUE, NEW MEXICO

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WESTERN CONSTRUCTION—January 1959

JANUARY 1959

Profits in contracting are improved when — **Maintenance is part of management**



By JAMES H. MILLER
General Service Manager
Shepherd Machinery Co.
Los Angeles, Calif.

EQUIPMENT MAINTENANCE on construction work has as its prime function the duty to provide "availability" of machines, so that the contractor can make a profit on the job. These maintenance operations include several different types of work but the final result and objective comes back to the profit motive for the contractor. If the person responsible for the maintenance of construction equipment serves this important function he must become recognized as a key man on the management team of the contractor.

The following thoughts and observations represent ideas coming from years of practical experience in this type of work. These years have been concentrated in jobs with Western contractors and in these Western states where construction conditions are extremely severe on equipment. The equipment supervisor who is able to maintain a satisfactory record of accomplishment in these Western states has an even larger claim on his rightful position as part of the management team.

Some of my suggestions will be critical of the maintenance methods and procedures common among many Western contractors, but they should not be looked upon as coming from a disgruntled master mechanic or a person with illusions of

Value of modern equipment places a premium on "availability," which is the responsibility of the maintenance force. Record keeping provides key information on the final costs of the job. Active cooperation between maintenance supervision and job management may open up an untapped source of profit for the contractor.

grandeur in trying to elevate the function of equipment service beyond its true position. My ideas are intended to be constructive suggestions for the final purpose of making any construction job show a concluding profit.

Equipment must be "available"

Everyone familiar with construction operations realizes that the average job makes or breaks, as far as profit is concerned, on the functioning of the equipment during the job. The factors are: (1) hours of "availability" during the life of the job, (2) efficiency of the machines while at work and (3) value of the equipment at the close of the job.

If, during the job there is a constant long waiting line of machines taking their turn to get into the shop for service, with the resulting dollars spent in parts and hours of mechanics' time, the operating or yardage costs will be excessive compared to the figures used by the estimator. The bid figure will not be realized and some false information will be on the books for bidding the next job. Further, there will be another heavy expense in getting this equipment ready for the next job, which will have to be charged either one direction or the other. If it is charged to the job just completed the profit may change to loss, and if it is charged to the new job it could result in

About the author —

Jim Miller has been working with contractors and off-road machinery since 1933. Raised running combines and farm tractors, high school graduation found Jim operating tractors clearing land in the San Joaquin Valley. He then served four years apprenticeship as a machinist, gathering a useful background in fine work, close tolerances and mechanical fabrication. His knowledge of the problems of equipment servicing stems from twelve years as a master mechanic for various contractors including work on

projects such as the Broadway Tunnel in San Francisco and the Tehachapi earthquake railroad relocation.

"West of Denver is tougher than east of Denver," as Jim likes to point out while discussing the severe operating conditions facing construction equipment in the West.

His three years as General Service Manager for Shepherd Machinery Co. has found him ranging far and wide to remote construction projects in the rugged West and given him added insight into equipment maintenance problems.

Editor



JOB CONFERENCE is important between equipment supervisor and general superintendent on the "cost" of taking a machine off the line for minor maintenance or to keep it running and get added output. Cooperation, understanding and an appreciation of final job costs are important.

a bid figure which will be too high to win the award.

Modern construction equipment finds every operator controlling from \$25,000 to \$50,000 of equipment which he can operate at a high rate of production and minimum of down-time, or he can operate it improperly. This abuse of the equipment might consist of driving it at fantastic rates for short spurts that will show a high rate of overall production, but may extend the maintenance costs and have a serious effect on the life and efficiency of the unit. On the other hand, a machine operated carefully and at consistent and constant speeds may represent the same production with a better record of maintenance costs and availability on this job and the next.

Seniority is not enough

It is difficult to review my next point, without giving the impression that it seems to be a negative one. On the other hand, I am sure that it represents proper criticism and a constructive suggestion if maintenance operations are to meet their full responsibility.

Too many times in the past the master mechanic, or the person in charge of maintenance on any job, secured his position as a result of length of service in the contractor's organization, or a background representing years of other experience. This might result in a mechanic of proven ability and one capable of directing the repairs on all types of machines, without developing a man who can fulfill the modern responsibility of "Equipment Maintenance Supervisor."

Although I dislike to use these terms, because they could be mis-

understood, the person in charge of these operations on a construction job should have administrative and executive ability. He must be able to set up the organization, both as to personnel and adequate record keeping. He must also have the ability to direct its functioning after it has been set up. His thinking must be broad enough to appreciate how his operations and those of his organization fit into the overall picture of the job and the profit incentive.

A person of this caliber is qualified to sit in on the management conferences of the contractor and to present his records, facts and recommendations for the benefit of the entire organization.

This functioning as part of the management team includes the serious problem of coordinating his operations with those of the men in charge of production. It is the responsibility of the general superintendent and his assistants to carry forward a production schedule that has been set up for the job. This schedule should have taken into consideration adequate time for servicing and the availability of the machines based on the contractor's experience.

When to interrupt production?

The position of the equipment supervisor is to see that this production schedule is accomplished and to work with the general superintendent toward that end. A key problem arises whenever the judgment of the maintenance supervisor indicates that a machine should come out of the line so that preventive maintenance could be applied to eliminate a serious repair job. A similar situation arises when the superintendent or his production

assistants put a piece of equipment into an operating condition where the service is so severe or not suited to that particular machine, with a resulting increase in maintenance beyond the normal allowance. In either of these two situations the equipment supervisor must have the facts available and must have the corresponding confidence of the general superintendents so that he can make his analysis stick, for the benefit of the final job figures.

Records are essential

I mention the matter of adequate record keeping because this operation serves as the basis for the opinions expressed by the equipment supervisor, either in his daily contact with production men, or with top management at its regular meetings. Such information takes the matter out of the personal opinion classification and permits the maintenance man to back up his statements with facts. Further, this makes it easier to deal with the subject because it no longer is on a personal basis, of who has the authority to make such decisions. The building up of such facts and cost records may be the basis for changing certain procedures within the company that will reflect further recognition on the equipment supervising team.

A particular problem will be the selling of this idea for maintaining adequate records. The average contractor has not yet accepted the fact that money spent for record keeping by the maintenance forces will more than pay for itself. To him the cost of record keeping may seem to be an unnecessary expense. With this in mind the supervisor must maintain records which are sufficiently accurate so that the results will be accepted by the contractor as representing an important contribution to estimating new work.

Such statistics also represent an added responsibility for the equipment supervisor, since it puts him on record with figures which he must be able to duplicate on the next job. In other words, if he presents figures to show the cost of equipment maintenance per yard on the past job he has the responsibility to see that they represent true costs on the next operation. Again, this calls for a further step in proper coordination between the departments in the field. Production management must permit the corresponding amount of cooperation with maintenance, both as to procedures, time required, and other suggestions, otherwise the fig-

ures from the past job will break down and production costs will increase.

Down-time must be prevented

The functions, the importance of the job, and its administrative details, which I have just outlined, represent a challenge to the "Equipment Maintenance Supervisor." The practical knowledge of machinery, its functioning, maintenance and repairs remains an essential for the position. However, to this basic function we must add a broader knowledge of construction operations, the willingness to take part as a cooperating force in the management team and a desire to accept responsibility.

One important incentive for the broader type of supervisory executive would obviously be a gradual increase in salary as his function becomes better recognized. However, I believe that an equal factor is one of recognition. In the past, the master mechanics on the average job have been looked upon as an overhead cost. They have been told that was their function by the contractor and have never gotten out from under that feeling of being a drain on the job rather than contributing to its profit making.

One of the reasons why this concept of the maintenance force must be changed is the fact that modern machinery is too costly and complicated for any other approach. In years gone by it was sufficient to have a "master mechanic" who could keep machines in repair. Today, it is essential to anticipate down-time and place emphasis on availability.

The modern construction job is equipped with a delicate balance of machines. Each one can affect this balance so that the interruption of the production schedule is far more important than the actual cost of repairing the unit, even though mechanics' time and parts come high.

Availability will decline

A modern fleet of new equipment going out on its first job can probably show an availability of somewhere between 92 and 96% of possible working time. Maybe the 96% availability range would be secured during the initial period of operation on the first job. Then, as the work advanced, with more and more time accumulated on the equipment it would be generally accepted that this availability figure would decline, sometimes in serious



PREVENTIVE MAINTENANCE means spending a small amount of time and money to eliminate a breakdown, expensive down-time, and possible major overhaul. Here, a maintenance crew of a large contracting organization is shown checking the wheel bearings and brakes as maintenance routine to avoid serious damage to housing or brake drums. Such attention increases "availability" of the equipment unit.

proportions. As the job advances on toward its completion the availability and unit costs will continue to rise but the emphasis changes to getting the job completed at all costs. At the beginning of the job the maintenance supervisor may make his program and recommendations stick, but near the close of the job the supervisors responsible for production begin to make their demands felt in getting the job finished even though maintenance must be neglected—or deferred.

With an equipment investment that may exceed \$1,000,000, this point of view can become very costly. Take one example to illustrate the point. One of the tractors, as the job is pushed forward towards completion, begins to develop a small amount of noise in its final drive mechanism. An observant operator and his foreman will take the usual and proper precaution of calling for a mechanic to diagnose the difficulty and render an opinion. His report to the production staff may be "Well, it's got a bearing going bad." The production supervisor's natural question will be "Will it still run?" The mechanic must come up with the honest answer that "It will still run but if you continue to run it and bearing goes out you will split a case." It is common for the production supervisor, at this stage of the job, to come up with the decision, "Fine, let's run it till it quits, because I just can't afford to shut it down right now."

This is the point of major decision. In its present conditions the

machine may continue to produce for five or possibly 24 hours, and this production may be looked upon as most essential for the concluding of the work. On the other hand, the repair job under its present condition might not require more than the installation of a bearing and a couple of seals, as compared to possibly a \$5,000 outlay if it continues to run and splits the case. Now, somebody must try to balance that \$5,000 cost against the value of the work the machine will do within the next two or three shifts.

Who has the responsibility?

In this type of a situation it would seem logical that the maintenance supervisor should have the proper authority to take the machine out of the line and carry out the proper maintenance and minor repair. The overall picture and the value of the machine to the contractor probably should supercede the obvious and honest desires of the production superintendent to get out those last yards.

Every job is different and all factors must be weighed in such a decision. The point I would like to make is that the position and the importance of the maintenance supervisor should put him on an equal footing with the man in charge of production so that the proper decision can be made, and will represent sound judgment for overall operations. Too many times in the past the general superintendent will tell the equipment super-



Lincoln Engineering Co. Photo

SETTING UP a good maintenance program is not nearly as hard as to keep it functioning regularly and effectively. Regular lubrication is a major part of any program. A traveling service station of the type shown helps to keep the down-time to a minimum.

visor that he can have the machine when it has completed the present assignment. This may be too late for the good of the machine and the profit on the job.

The contractor may have placed such importance on production and placed the production man under such pressure, with a goal to shoot at, that he feels justified in maintaining his position. On the other hand, if the contractor was at the scene and had proper confidence in the decision of the equipment supervisor he would probably agree on the decision to waste a few yards and save much more money on his expensive piece of equipment.

Preventive maintenance

During the past few years much has been said on the subject of preventive maintenance. In my opinion, on the large majority of contracting jobs, it remains a handy title and something to talk about. We are getting closer to the realization that there is such a thing as preventive maintenance and that it actually makes money.

There are two essential parts to a preventive maintenance program. The first and probably the simplest is to set up the program at the beginning of the job. The second and tougher part of the plan—although the most important—is to see that it is lived up to and carried out week after week as the job moves forward.

The most difficult part of all for the equipment maintenance supervisor with such a preventive program is the fact that he is unable to point to its success or what it has accomplished. The contractor may have a sneaking suspicion that the equipment would run just about as well without the cost of such a program. At no time during the life of the job is the supervisor able to demonstrate to management that

his program is paying off, and its cost continues as a definite part of job costs.

However, records of availability may be the answer, and if the supervisor is able to show from his records that the availability at the beginning of the job is continuing on week after week, the results of the preventive maintenance program can then be demonstrated to management.

Records are the proof

Lastly, when the job is over and the equipment is ready to move to the next job, if this availability is high and the cost of overhaul is low, the equipment supervisor has got facts that can be demonstrated.

For example, if the records show that availability has dropped from its possible top of 96% to 72% near the end of a 2-year job, it is quite simple to evaluate the lost production time in dollars, and see what the effective preventive maintenance program would have accomplished. Again, the need is for accurate record keeping, by qualified people and the analysis of the resulting facts.

Next to organizing and carrying out the schedule of proper maintenance, the equipment supervisor ought to be able to function as a consultant in how the equipment should be used. It is quite possible that certain machines can be worked under conditions that will result in excessive maintenance and repairs. The machines are not suited to that particular type of work, or they are being called upon to go beyond their limit of output. Possibly, the additional output may justify the heavier repair bills. The production men ought to be in close contact with the equipment supervisor to ask his honest opinion on the net result of such equipment operations.

Distributors can help

In all of this picture relating to maintenance, operating costs, programs of servicing, as well as detailed shop procedure, the equipment supervisor will do well to lean on the distributor as a source of information. He can furnish the suggested unit operating costs recommended by the manufacturer and can also advise on modifications depending on local conditions. The supervisor can also learn the latest maintenance procedures as recommended and find the short cuts, the cheapest and easiest way to perform maintenance and repair operations.

Since this distributor and his service men are familiar with the equipment operating under a variety of conditions, he would be in a position to advise on operating procedures and circumstances which would tend to reduce the life of the machine and reduce its efficiency. The average distributor goes even farther with the providing of occasional service schools for contractors' personnel, the furnishing of lubrication charts and all other literature available from the manufacturer. Lastly they have the recommended maintenance program for each type and make of machine.

Summary

To summarize, the objective of the equipment maintenance department is to service the machine rather than to repair it. The department should be organized to keep the machine on the production line and retain its original availability, rather than to be a repair outfit running from breakdown to breakdown. Once the maintenance department gets to this position of being the "repair department" it is an uphill fight to stand still. Costs will rise higher and higher, overtime will be demanded in the shops as the availability drops and the position of the equipment supervisor will not be up to his recognized position as part of the management team.

Men with proper qualifications who have the ability to organize a maintenance force, to put it in operation and make it work, as well as the ability to request and secure proper coordination with the production forces of the contractor and with the top management, can look forward to a future where they will become the key factor in the operations of any successful contractor.



Market study and careful equipment selection are—

Steps in starting a paving outfit

A review of what a general superintendent did when he decided to organize a new highway contracting firm. Operations on the first job prove the planning was sound.

NORTHERN California, where the worst paving conditions in the state are commonplace, has a new construction firm. Unlike Topsy, this one didn't just grow. Too much was at stake for A&E Paving Co. of Arcata to gamble.

The new outfit was conceived in the heart of an economic report, following an expert evaluation of the paving potential in Klamath and Humboldt counties. Size and shape also were determined by this report; then modified to adopt good paving practices and equipment prevalent in California and the West. When the new firm came to life with its first sharp-penciled bid, its president was the same man who had made the economic report. And he was backed on the very first job by a \$500,000 spread of paving equipment and supporting machinery bought new according to plan.

Does such care pay off? There seems to be no question that it does. On the very first project, a 10-mi., 32,000-ton U. S. Bureau of Public Roads contract through Six Rivers National Forest, paving production hit 209 tons per hour, and stayed there. The job was finished in only five weeks of paving time. And

county officials, along with many a private businessman in the nearby towns of Willow Creek and Hoopa, bought an additional \$25,000 worth of aggregate and plant mix for their own use while the plant was set up. They were that impressed with the excellence of the product and the way the Government job was moving.

Careful study forms basis

The study and economic report which forms A&E's reason for being was not made, peculiarly enough, with that in mind. Sam Parnum, A&E's president now, was a general superintendent late in 1957 for one of the two construction companies who, at the time, were the only firms doing major work in Northern California. Convinced that a great deal of new paving construction was a possibility, over and above what his firm was then doing, Parnum undertook to determine if his hunch was correct.

First of all, he studied the concentration of paving jobs near the stationary plants his company owned. One fact stood out clearly: when transportation costs away from the plant pushed unit prices

too high, the jobs became scarcer. State and county highway building officials verified what Parnum was thinking. Considerable amounts of paving tonnage were having to be held up for the simple reason that costs were too high.

He continued his study with an actual physical survey of the two counties: What the look-see lacked in mathematical precision was more than offset by Parnum's knowledge as a practicing general superintendent. He studied what percentage of the streets of cities and towns were paved, noted the number of industry yards and filling station areas and driveways which were still dirt or gravel, what industries were moving in then or in the future, and other such related factors.

What began to emerge clearly was that a bonanza of new paving work was wide open to the right kind of outfit. The big gap, he was convinced, was in portable paving equipment. Stationary facilities for the two counties were adequate. But a serious deficiency existed beyond the points where transportation from these stationary set-ups was economical. It was that principal conclusion which formed the backbone of his economic report.

For reasons best known to themselves, the heads of his company were less enthusiastic about the situation than their general superintendent. The report was shelved.

Parnum, however, was so fired up about his study that he resolved to



A FEATURE of the plant was the 30-ton surge bin for the hot mix, which reduced time for truck loading, cutting at least one unit out of the hauling fleet. It also solved another loading problem since drive-through loading under the pugmill would have been below ground-water level.



TO REDUCE delays at the paver and permit uninterrupted operations, the trucks dumped the mix in a windrow where it was picked up by this Ko-Cal loader.

do something about it. If nobody else would start handling this paving business, he would. He resigned from the company, and enlisted the help of two friends to raise the necessary financial backing: Joe O'Neill, who owns A&E Ready-Mix Co. of Arcata, furnished a great deal of capital and is now a partner and vice president of the new paving company. Jim Franke also joined in as a partner, and is the treasurer. Sam Parnum is president and generally manages the field work for the new firm.

Equipment selection begins

In selecting the sizable, expensive outlay of equipment it would need, A&E's management firmly determined that it would be no hodgepodge of heterogeneous makes. Equipment would be standardized around proved units, so that main-

tenance would be simplified and production dependable.

Crusher requirements were well thought out. For example, true portability was a definite factor in crusher selection. Whatever crusher was selected had to be able to move over a 200-mi. radius over steep, twisting mountain roads — sometimes not of the highest type in California — at speeds up to 35 mph., without tearing the unit down excessively. Also, since most of the gravel pits in this area run heavy in sand and fine sizes, the plant had to be equipped to bypass these fines around jaw and roll crushers, to waste objectionable fractions if necessary, and to select an all-crushed product, if need be, for surface chips. The plant had to be efficient enough to move 150 mi. for a 4,000-ton job, and to keep pace with the high production of a modern asphalt plant. It was a

rather large order, as Parnum admitted when he began canvassing the market.

The asphalt plant, too, had true portability as an important factor. Simple, moderate-size units combining high capacity with ease of movement: these were what A&E needed. Labor agreements between AGC and California's unions made high production important, too—preferably in the 175-225-tph. range. The plant had to be easy to service and maintain.

An additional requirement, looking to future trends in state highway construction, was the desirability of using the plant pugmill occasionally for mixing cement-treated base materials at a paying rate of speed.

One of the most important requirements was that of drier capacity, especially since it could be predicted with a fair degree of accuracy that aggregates would be exceptionally wet most of the time. Most pit-run deposits in the area are close to the groundwater table, or, if they are above it, are vulnerable to heavy rains.

Paving equipment had to be simple, foolproof, and capable of keeping up with the plant's peak output, especially on straightaway lay-down work. It had to be able to lay a variety of mixes, along with several grades of asphalt, for various agencies: state, federal, county. Supporting equipment such as rollers, power plants and so on had to be sufficiently dependable to work on a steady basis without a spare replacement, or even excessive down-time. And, if possible, engines in the supporting equipment should be interchangeable or at least of the same manufacture as those powering the main units.

After studying many operations in California and nearby states, after talking to many distributors and salesmen, after contacting engineers with many agencies to determine their requirements, Parnum and his associates finally settled on one distributor: Cook Brothers of Los Angeles and Oakland. The entire package order was handled by that firm, working directly with the lines it represents, or working locally in Northern California with the lines it does not represent. For instance, Brizard-Matthews Machinery Co. of Eureka and Arcata furnished Caterpillar power units and a motor grader, through Cook Brothers, for the new firm.

The crushing plant selected was a Pioneer 45-VE Duplex gravel

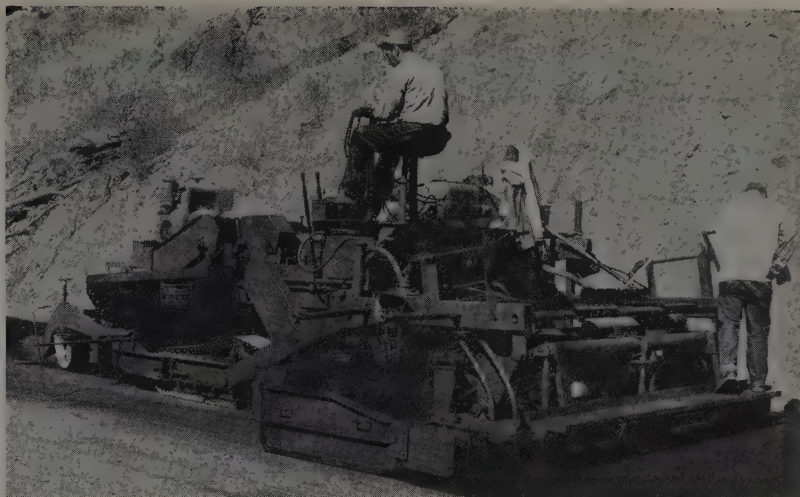
plant. A Pioneer 102 asphalt plant in two basic components—a No. 382 drier and dust collector, and a No. 99 central mix plant—was picked. The plant drier came equipped with the Genco fuel-firing system, so that up to 2,000,000 BTU could be directed against aggregates, no matter how wet, for fast, efficient drying.

Auxiliary plant power was Caterpillar, and all these engines were trailer-mounted for easy portability. A D-353 diesel-electric generating unit powers the hot plant. A D-339 furnishes jaw and roll-crusher power to the 45-VE by direct drive, and a D-318 generating set furnishes electricity to the crusher-plant motors.

Carrying out the theme of standardization, the company picked a new Pioneer Vibromatic paver as its laydown machine, thus localizing all its asphalt machinery service and maintenance with one distributor. Rollers, too, were of standard make. Steel-wheel equipment was Buffalo-Springfield. A Southwest self-propelled pneumatic was selected for compaction of granular sub-base, and for plant-mix pavements where fine-textured surfaces were especially desirable.

Even a great deal of supporting equipment was localized. For example, Ko-Cal furnished not only a loader for use with the paver, but all fuel and asphalt tanks, a 30-ton surge storage bin with air-operated gates, and part of the transfer box which feeds the conveyor connecting the pugmill drop with the surge hopper. At present there is 8,000 gal. of fuel storage, and 20,000 gal. of asphalt storage. Another 20,000 gal. of asphalt storage has been ordered, with tanks heated, as were the first units, by the hot-oil circulation of a Hy-Way heater.

The equipment was installed under expert factory-distributor supervision, calibrated and checked, and was ready to start paving Sept. 26. With fall rains fast approaching, A&E's Sam Parnum made a bold move to make sure that even the first job would move fast, relatively free from trial and error. He persuaded Pioneer's Rollin Smith, who had come out from Minneapolis to assemble the equipment, to take a short leave of absence and act as general superintendent on the first job. He and Pioneer agreed on this idea, knowing that it would help all the companies concerned and benefit the job. The fast paving time and completion before the main fall rains proved the wisdom of Parnum's move.



From the windrow, the Pioneer Vibromatic paver is placing a 1¾-in. leveling course 14 ft. wide. It was followed by a surface course of the same depth.



BASED on a thorough, first-hand study of potential paving in the area of Northern California, Sam Parnum (left) organized the A & E Paving Co. Having standardized on Pioneer equipment, he arranged for Rollin Smith, company representative who assembled the plant, to serve as general superintendent on the first job.

Good work on shakedown run

Results were excellent, even on the first job, and proved that most of the decisions which had been made were well justified. For example, consider the crushing problem. Parnum had known that pits would be tricky; this one was especially so. One pit site had been selected for the 10-mi. job, and it was in the Trinity River bottom. While the upper part of the pit was fairly dry when the job started, the lower portion was below the water-table and saturated. The pit also ran into large cobble sizes, which tested the efficiency of both the primary jaw and the rolls.

The sand problem which Parnum had anticipated was also a reality, so that the prompt by-pass of this product around jaws and rolls was desirable. To produce the ¾-in. minus product, with from 3 to 8% passing the No. 200 screen, it was necessary to crush about 65 to 75% of the pit.

The new crusher did its job well, turning out 175 tph. under this condition, in rock weighing about 124 lb. per cu. ft. When the asphalt plant was operating at 209 tph., all the crusher's output was channeled directly by belt conveyor to the plant drier. Extra material was also fed in, from stockpile, by a Pettibone-Mulliken Speedall 250 loader.

Adjustments on the crushing plant permitted balanced loads to be placed on jaw and roll crushers to keep production at a peak. And ample screening capacity turned out a product that could be dumped direct from crusher into the asphalt plant drier without storage or blending, or without rejection by the central mixing plant screens.

A 120-150 penetration grade of asphaltic cement was used in the mix. Approximately 3.8% was used in the leveling course; 4.2% in the

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A discussion of suretyship . . .



By A. DOUGLAS MENNIE

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“He that is surety for a stranger . . .”

THIS MAY BE an unusual caption to adapt to an article on corporate suretyship, but here it is, *Proverbs* 11:15, “He that is surety for a stranger shall smart for it.” This was written about 250 B.C., and 2,200 years later is still a timely caution. But first, let's explore briefly the meaning of suretyship, and its function in American business, more particularly as related to the construction and engineering industry.

What is Surety?

In quite elementary terms a contract of suretyship is an agreement by a surety company to be responsible to another party (the obligee) for the contract, obligation, or conduct of a third party (the principal). In public work the surety is the bonding company, the obligee the political subdivision, and you, Mr. Contractor, the principal. The law and theory of suretyship are entirely different from those of insurance, as is readily apparent, and from a theoretical standpoint, there should be no losses. Rates are predicated upon this basis, and to remain in business, a bonding company must be selective in underwriting the obligations it guarantees, for it, like the contractors it bonds, is in business to make a profit.

Understanding then just what the surety's position is, let us for a minute examine the position of the surety and its thinking in the efforts it makes to know something about you, your finances, and your business. True, we ask a lot of questions. I expect your banker does too. Furthermore, I would assume that if you were to enter into a co-partnership, take in an additional partner, or become a party to a joint venture, you would do so only after you had satisfied yourself that this union was to be one of harmony, convenience and ultimately a profitable one.

Most contractors work quite well

with their bonding companies. In fact, their surety comes close to being a partner because the bonding company cannot be wounded or hurt unless the contractor is severely injured or financially exhausted. Therefore, we strike up an intimate acquaintance, just as you would under the conditions I have mentioned.

As I have said, suretyship is not insurance. It falls within the realm of credit. Actually, the surety company endorses the contractor and agrees, in the event of failure of the contractor to perform, to perform for him. That is a serious obligation and that is why we at times ask some questions that at first blush might appear to be rather prying and of a personal nature.

Qualifications for bonding

Probably one of the first things that the neophyte surety underwriter learns are the three C's of underwriting. These are Character, Capacity, and Capital. These qualifications are not necessarily listed in the order of their importance, for each one is just as essential to the combination as the other two. *Character* must be beyond question—there are no degrees, no gradations, no gray areas in this matter of honesty. *Capacity* implies knowledge, the know-how, the experience, and the equipment to do the job; and *capital*, the funds or credits with which to prosecute the

entire work program of the contractor.

A surety's service is an extremely confidential one, and if a proper relationship is to be maintained, it must remain so. Our business is somewhat like yours in that it is highly competitive. If your bonding company does not render you proper service some other surety company will, and while it is competition that makes the wheels go 'round, again like your business, extremely keen competition can bring about conditions that are far from desirable.

Therefore, it is incumbent upon sureties in working with a contractor to render him the best possible service that their trained personnel can give. Much of this service often times is of an advisory nature, just as you would counsel with your bank in outlining a work program where funds would be necessary to finance it. Like the banker, our advice is not always taken, which does not mean that the contractor who fails to follow his surety's advice is headed for perdition—at least not always!

Capacity

The capacity of a contractor to do a certain job is influenced by many things. Somewhere along the line he first must start in business; then having done a job successfully, he takes on additional jobs and grows into a work program. It seems a wise procedure that a con-

About the author—

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dustrial Indemnity he was vice president of Central Surety & Insurance Corp. for fourteen years. Prior to this he was associated with Globe Indemnity Co. as assistant manager of the Pacific Coast Department. He is a past-president of the Surety Underwriters Association of Northern California.

Editor.

tractor stay with one line of contracting rather than trying to diversify into several types of work. A good highway contractor is seldom a good building contractor, and likewise, a good building contractor often times comes to grief by changing his mix to include subdivision work, which in itself is a specialty.

Like the medical profession, we are in an age of specialization in the contracting business. A contractor who in starting out may do a \$50,000 to \$100,000 job but should content himself to grow into the larger jobs rather than zoom to a \$1,000,000 job overnight. He might not have the finances, the ability, the equipment, or the organization to handle the much enlarged program.

Proper estimating is of vital importance to any operator, for unless he is qualified to accurately take off his costs on any job, charge in his equipment rental and his office overhead, he may find that he is doing business for fun or at a loss, for the dollars must come from job profits.

Equipment

Particularly in the engineering field, involving highways, road construction, bridges, dams, etc., do we find heavy investment in equipment. I would be the last to argue that equipment is unnecessary, but I am firmly of the belief, after working with contractors for many years and seeing some of them frozen to the point where they cannot work for lack of capital due to heavy equipment payments, that they must see their way clear at all times to employ the equipment that they purchase or lease.

The contractor is in a sad plight when his equipment sits in his yard with insufficient work on hand to employ it, with substantial payments due every month depleting his working capital, jeopardizing his bank and surety credit, and resulting in trade reports disclosing a slow pay record. I know of several contractors who at the moment are running out of work, have not been low bidders in recent weeks, and are extremely concerned with the fact that unless they hit a job quickly their working capital will be impaired if not dissipated because of equipment payments.

Personnel

Certainly, competent men in a contractor's organization, as in any

organization, are absolutely necessary. In any expansion program foresight must be utilized to be certain that enough superintendents and the right superintendents are available for the jobs. A man who may be good on one phase of a contract might not be the man to complete the job, and many losses have been occasioned by contractors by retaining a superintendent on a job to completion when in fact he was a specialist only on one portion of the contract in question.

Job location

Other problems arise to badger the contractor and the surety with the contractor's desire to go too far afield for the size of his operation. The grass frequently looks greener on the other side of the fence and this new job is just the one upon which to make a killing, but it doesn't always work out that way.

One contractor client of mine several years ago decided to go into the Pacific Northwest from his base in central California. He bid a couple of jobs I counseled him not to, but nonetheless he found a bonding company that would go along with his far flung objectives. He came back to me several years later and stated that had he followed my advice he would have saved himself an \$85,000 loss.

Another one on a public works job went too far afield when we had advised him not to because there were certain political factors involved in the territory where the potential job was located and we did not feel that he could cope with the local people. He completed the job but dropped many thousands of dollars in doing so, and it was three years before he was back in the same league where he had been compelled to relinquish his position. So it is a safe and conservative adage to say that we should learn to walk before we run, and then be rather sure of the direction in which we are heading.

Type of work

Certain types of work are considerably more hazardous than others. I remember the case of a pile driving contractor who ran into difficulties in driving precast concrete piles causing crystallization of hammers and other equipment. When he had exhausted his assets we were called into the picture. His bid for driving these piles had been based on \$8 per pile, and when we en-

deavored to sublet the balance of the contract, the lowest figure we could secure was \$80 per pile, or ten times the original estimate of our man who was considered one of the outstanding operators in the field.

Perhaps the Sierra and the Sierra foothill country has caused as many headaches and heartaches as any other part of the Pacific slope. Roads, bridges, and tunnels in hardrock country are difficult to estimate as the oldtimers will tell you, and bids in an area of this type should be on the conservative side, compared to bids in the lowlands or valleys. I well recall a contract in which I was involved for the construction of an important road in the Sierra. It was a granite country and a two season job, but by the end of the first season the job had hardly begun and we had been precipitated into World War II with rationing, scarcity of equipment and other problems. There was constant wrangling with ration boards in the vicinity of the location of the job as opposed to the location of the contractor's headquarters. Tractor treads were crystallizing and tires were being torn to bits. Fortunately, the Federal Government requested abandonment of the job because it was deemed nonessential to the war effort. The contractor, however, took on another similar job after the war in which he ran into similar problems, and passed away in the middle of the contract. The job was finished by his estate without loss to the surety, but with considerable loss to the contractor's heirs.

Joint ventures

Joint ventures on jumbo contracts — they too are in line with capacity — had their genesis with the construction of Hoover Dam, bonds and contract for which were signed in March, 1931. Contract price on the project was \$48,890,995 with a bond penalty of \$5,000,000. Twenty-one bonding companies underwrote the \$5,000,000 bond. Since that time, of course, joint ventures, large and small, have become commonplace and often times it is a very practical way for enlarging capacity of the contractor, at the same time sharing the load and responsibility. It is often practical for two or more small or medium sized contractors to band together under a joint venture, which is a partnership, to perform a particular job, and this procedure is frequently suggested

by the surety for one reason or another.

Capital

Turning to the last of the three ingredients in the makeup of the successful contractor, we should give consideration to the subject of capital. This embraces, of course, actual net worth or "net quick" as we term it, bank relationships, and extension of credit by material houses. Every sound contracting organization should be as well established with his bank as he is with his bonding company, and it is advisable to know what type of credit is available.

Your application should be made to your banking institution for a line of credit commensurate with your needs, and may be obtained either upon a secured or an unsecured basis. These arrangements frequently are necessary to tide a contractor over between payments of retentions or while waiting for progress payments. Likewise, good credit relations should be established with material houses, and those houses should be paid in accordance with the terms and conditions of their billings. If longer than normal credits are arranged, the credit manager of your material house should make special note of the fact so that your credit record in the credit bureaus is not affected.

There is no substitute for a properly maintained bookkeeping and cost accounting system. A contractor should know where he is going on any job long before the job has been completed, and profits on jobs should not be taken until they are earned.

A recent case of interest arose in connection with a good contractor friend of mine, who at the start of the job was certain of a profit of some \$90,000. The estimate of profit dwindled to \$30,000 sixty days before completion of the job, and when the job was finally ended and all charges incurred had been paid there was no profit. It is highly important that a system of accounting be maintained that would prevent such a condition as this ever existing.

Any progressive contractor should spend the money at least annually to have a duly qualified accountant make up a detailed financial statement, a copy of which should be given to his bank and to his surety. An interim statement should be prepared in the middle of his fiscal year and like distribution made. This would also contemplate a bal-

ance sheet monthly by the contractor's own accountant or bookkeeper.

"Net Quick"

We hear much about the "net quick" of a contractor. Actually, this figure is the difference between allowable current assets less current liabilities, and means cash or its equivalent. Misunderstandings arise between contractors and sureties in the analysis of the current assets on such items as notes receivable, which may or may not be good, unlisted securities, likewise, stock in family ventures, which may not have any collateral value for credit transactions, and second deeds of trust. It should be kept in mind that when we speak of "net quick" we mean cash or that which can become cash immediately.

On the current liabilities side of the financial statement, we are somewhat at the mercy of the accountant who puts the statement together, for we have no way of having a complete audit of the contractor's books made. It is impossible to know that all the accounts payable are included, and if they are not the credit situation is completely distorted. It was my misfortune a few years ago to develop a new contract account and I was furnished with a financial statement showing better than \$100,000 in working capital. Credit investigations were made through the sources that we make use of in the industry, and we extended a rather sizeable line of credit to this contractor. About a year later, with jobs in various stages of completion we found that our contractor had run out of money. We became involved to the extent of some \$70,000.

Actually, what had happened was that the accountant who had prepared the statement had omitted some \$80,000 in accounts payable, which would have made an entirely different picture had the statement been accurate. The contractor was surprised that he was doing so well financially, but depended upon the assurances of his accountant. Had this statement been properly prepared, the contractor would not have become involved and neither would his surety and bank have been affected.

Another set of statements on another contractor I have before me as I prepare this article, embracing a series of six financial statements prepared over a period of 20 months, shows a net quick position varying all the way from \$200 in

the red to \$42,000 in the black, and net worth varying almost as radically. It is obvious that no surety man, with his company's interests at heart, could make any kind of a commitment on statements so improperly prepared. In this case we have asked for a verified CPA statement.

SUMMARY

In summary, it might be well to set forth a few of the salient features of contracting and surety underwriting:

1. That it is best to remain fairly close to home in your job orbit until you have grown to a size that permits real prospecting upon your part.

2. That various types of contracting not be combined for each may be a specialty unto itself.

3. That a contractor, unless he be exceedingly large, retain his capital in his business rather than spreading it out in other ventures or real properties.

4. That proper insurance of all types be a part of a contractor's business program, placed in the hands of an insurance specialist.

5. That a good sound banking relationship be maintained, and also a similar relationship with your bonding company, and that the advice of both banker and surety be given credence.

6. That proper estimating and proper accounting methods be high on your list of musts.

7. That if larger work is to be entered into, consideration be given to joint venturing.

8. That all contracts be reduced to writing, including subcontracts, so that there will be no ambiguity as to what is expected. No subcontracts should be based upon confusing purchase orders.

Last, and by no means least, no contractor should ever foster the idea that he cannot lose money on a job, as one of my contractors suggested to me several years ago. That is the most dangerous philosophy that could be followed, as my friend ascertained, for eighteen months later he found that he had lost better than \$250,000.

The contracting business is a tremendous field and a challenge to any man's imagination. It will always be so. We cannot see great public works, such as Trinity Dam, and not come away with profound admiration for the magnificence of man's imagination and his ability to put into effect the things of which he dreams.

Tames the Naugatuck

C.I.T. Is On The Job, Too

The Thomaston Dam and Reservoir soon will permanently tame the Naugatuck River, which raged through Torrington, Connecticut, in 1955. Operation Noah, as this huge flood control project is called, was designed by the U. S. Army Corps of Engineers and is a current job of Oneglia and Gervasini, Inc., of Torrington, and its subsidiary firm Building Materials, Inc.

Important new earthmoving units used by Oneglia and Gervasini on the job were financed by C.I.T. Corporation. More than 30 pieces of heavy equipment were needed to tackle this 2,000 foot rolled earth and rock dam. Mr. George Oneglia, Director of Building Materials, Inc., says: "C.I.T. Corporation offers a long-term depreciation plan, tailored specifically for firms such as ours which must depend on costly equipment. This equipment would sometimes be out of reach, fi-

nancially, if it weren't for C.I.T. Corporation and such cooperative C.I.T. men as George Allis."

How Job-Engineered Finance Plans Help Contractors

Payd Plan equipment financing terms to 6 years with payment schedules related to depreciation, or equal monthly payments over 36 months, or skip-payment plans where needed . . . these are just a few of the helpful financing tools offered by C.I.T. Corporation.

In addition to equipment purchase financing, C.I.T. can help improve contractors' bid and bond capacity, meet current operating expenses or other business needs by arranging capital loans. C.I.T. representatives know how to lay out "job-engineered" finance plans, carefully devised to fit the needs. Why not call or write? No obligation, of course.



George Oneglia, Vice President of Building Materials, Inc., and George Allis of C.I.T. discuss progress of the job which has a completion target date of spring 1960. Mr. Oneglia says: "It's a big job requiring large capital resources. That's one reason why we have found C.I.T. Corporation to be extremely helpful."



An O. & G. truck crane places a huge boulder in place on the face of the dam. Heavy-duty jobs like this and the solid bed rock conditions required the most durable equipment available.

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TIRES

Can you lower the cost of this big earth-moving item in 1959? Here are some practical ideas for Western contractors.

By FRANK W. FOX

WITH 1959 at hand, now is the time for Western contractors to reflect on past operations and to decide where to place emphasis on cost cutting so that coming months will be more profitable. And in the handling of large volumes of earth or rock, with vehicles rolling on huge and expensive tires of nylon and rubber, there is no place at which attention has a chance of paying off more handsomely than in connection with these tires.

For in the records maintained by operators of mines and quarries, who use the same vehicles as contractors (many times under conditions more favorable for lower tire costs), facts prove that after operating labor costs, tire expense is the next highest item. For example, a fleet of 30 to 50-ton vehicles may have an overall cost split of 40% for operating labor, 35% for tires, and 25% for fuel and repairs.

The careful operator will hire drivers of the highest type available and will train and supervise them to get the best performance out of this most expensive item of his job cost. And next in line for judicious selection, followed up by careful operating and maintenance service, will be the matter of tires.

Since few vehicle operators are kept on the payroll between jobs, training must be deferred until just before the job starts. But, the question of tires can be, and definitely should be considered along with the selection of the line-up of vehicles chosen for any job. If new machines are being bought, there should be consultation with "big tire" experts in connection with the selection of vehicles. Since tire costs will exceed other vehicle operating costs, a type of machine with tires of adequate size and the right type for the conditions to be met will save money.

Since the tire prices to vehicle manufacturers, due to their large volume buying, are lower than prices to operators, the "best" tire



TODAY'S earth-moving equipment combines heavy loads and high speeds on good haul roads. When these are combined with the desert heat in Western states, tire problems become critical. Heat build-up in the tires deserves expert and constant attention.

costs least when bought as original equipment on the machine. In most cases for any model, the manufacturer offers options of tire sizes, each of perhaps several types and ply constructions, and the operator looking for low tire costs will "play it smart" and get the most tire he can on new equipment.

He knows that he is going to try to haul top-size loads as much of the time as possible, and that some materials weigh 30 to 50% more than others. The "basic" specifications for tires used as original equipment by the buyers of this equipment are usually the minimum in size and strength that the tire engineers will approve for the vehicle's capacity and weight.

Tires will run farther and cause less down-time for changes and lower bills for repairs, replacements and service, if they are big and strong enough to carry the loads and if of the right tread type for the haul road conditions. The exercise of good judgment and the outlay of a relatively few extra dollars for maximum size and strength will be the source of more money in the pocket at the end of the job.

The construction machinery industry has now just about standardized on wide-base type, tubeless

tires made with nylon cord which give better traction and flotation in bad going. They permit the handling of more yards per shift or per day than the old standard type. Wide-base tires differ from standard mostly in rim and tire widths, are not interchangeable without rim changes. Both types, however, are made in different ply ratings and the stronger tires with the greater number of plies or layers of cord have greater load capacity.

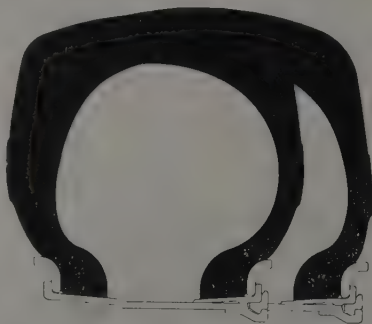
Even if not loaded to the limit continuously, the stronger tires will generally prove the best buy. The extra cord strength permits safe inflation to higher levels which means proper support for more load without excess deflection, while the extra thickness lessens the chance of blowouts when cuts extend into the tire body but not through all the plies.

Prior to 1958, the "rock" type tires were sold at higher prices than "traction" or "rolling wheel" tread type tires of the same size and ply rating, but due to lessened demand for the latter types, the price differential has been eliminated, so the best choice in most cases is the "rock" type tread style.

This type tread is more compact in design and generally contains a lot more rubber so should yield longer life before needing recapping or replacement. If somewhat more attention to haul roads is required to offset the lesser traction of this tread type, the net cost should still be in favor of the "rock" type tire.

Observe load and inflation tables

Having selected the best tires, the careful contractor will study his operating conditions and lay out his vehicle work to avoid, as much as possible, the abuse of the tires. Observe the Tire & Rim Association tire load tables. Note in the tire

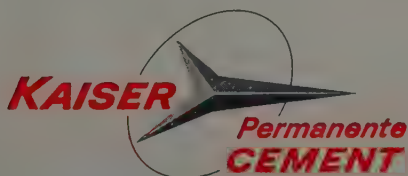


COMPARISON of conventional and wide-base tires shows the increase in contact area. Conventional tire is a 24.00 on a 17.00-3½ rim, and wide base is a 29.50 on a 25.00-3½ rim.

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WIDE BASE TIRES FOR EARTHMOVING SERVICE FOR SHORT HAULS

MAXIMUM SPEED — 30 M.P.H.

Tire Size	Ply Rating	Tire Loads at Various Inflation Pressures							
		25	30	35	40	45	50	55	60
20.5-25	12	8630	<u>9590</u>						
	16	8630	<u>9590</u>	10500	<u>11350</u>				
	20	8630	9590	10500	<u>11350</u>	12170	<u>12940</u>		
	24	8630	8590	10500	11350	12170	<u>12940</u>	13700	<u>14400</u>
23.5-25	12	<u>11150</u>							
	16	<u>11150</u>	12440	<u>13610</u>					
	20	<u>11150</u>	12440	<u>13610</u>	<u>14700</u>				
	24	<u>11150</u>	12440	13610	<u>14700</u>	15750	<u>16750</u>		
	28	<u>11150</u>	12440	13610	<u>14700</u>	15750	<u>16750</u>	17720	<u>18620</u>
26.5-25	14	<u>13940</u>							
	20	<u>13940</u>	15530	<u>17000</u>					
	26	<u>13940</u>	15530	<u>17000</u>	18350	19700	<u>20970</u>		
29.5-25	16	<u>17190</u>							
	22	<u>17190</u>	19160	<u>20950</u>					
	28	<u>17190</u>	19160	<u>20950</u>	22600	<u>24210</u>			
29.5-29	16	<u>18600</u>							
	22	<u>18600</u>	20650	<u>22620</u>					
	28	<u>18600</u>	20650	<u>22620</u>	24450	<u>26200</u>			
	34	<u>18600</u>	20650	<u>22620</u>	24450	<u>26200</u>	27870	<u>29490</u>	
33.5-33	26	25850	28750	<u>31420</u>					
	32	25850	28750	<u>31420</u>	34000	<u>36470</u>			
	38	25850	28750	31420	34000	<u>36470</u>	38800	<u>41050</u>	
37.5-33	24	31450	<u>35020</u>						
	30	31450	<u>35020</u>	38350	<u>41400</u>				
	36	31450	35020	38350	<u>41400</u>	<u>44400</u>			

NOTE: Single underscoring denotes maximum recommended loads.

manuals that any tire has varying capacity depending on inflation, speed and type of service. There are different tables available: for highway service (TB2D and TTB1); for earthmoving, short hauls, 30-mph. maximum speed, (EM3D and WEM1); for earth moving, 10 mph. (EM2C and WEM2); for road graders (RG3A); and for mobile cranes and shovels, (LP1C). Copies of these tables will be furnished by tire company representatives along with complete recommendations for tire service and maintenance programs.

Although forewarned and prepared, the contractors can never hope to escape tire problems entirely. New ones arise each year with changes in vehicle design and innovations in operating practices.

The heat problem

Because of higher speeds in recent years, combined with heavy loads, good roads and long hauls, heat builds up in the big tires which break down the union of rubber and cord, with resulting separation and blowouts. The nylon cord selected for large tires has best resistance to heat of any cord material available. This is why it has replaced both cotton and rayon dur-

ing past decades in tire history. Steel wire, the newcomer to the tire cord lineup, is a good performer in highway truck tires only.

It is difficult to set out any definite pattern or limits with which heat will not cause trouble. One large tire company publication recently gave the following as operating conditions which would cause harmful temperatures: (a) speeds over 30 mph. for more than short periods of time, (b) hauls of 2 mi. or longer in the 25-mph. and up speed range, (c) when tire loads exceed Tire & Rim Association recommended maximum loads by more than 10%.

When tires become so hot that pressure build-up is more than 20% or when the bare hand cannot be held on them, internal temperature may be well above the critical 250-deg. level. Remedial steps to be

taken are reduction in load, reduction in speed, and use of specially constructed cooler running tires.

If tube-type tires are in use, changing rims and tires to tubeless type will give cooler running equipment. Some tire manufacturers are recommending, for extreme cases, tires with special compounds and lighter treads, that will reduce heat build-up by 10 to 25%. This will help avoid blowouts with minimum reduction of load and speed factors.

In Western states where there are extensive desert areas with summer temperatures of 100 deg. plus, 3 to 5-year projects are rather common. These involve long hauls on first-class hard surfaced roads. Such conditions exaggerate the heat problems. Contractors with such operating conditions should investigate all means of relief, when suspecting heat trouble, without waiting till up to their necks in tire blowouts.

Tread cutting problem

While rock cutting of tire treads is a universal problem in off-the-road operations, tires damaged by small cuts through the tread are more likely to separate and develop large injuries when the factors of

LOAD INFLUENCE ON SERVICE

LOAD CONDITION	EST. % OF NORMAL SERVICE
Underloaded 30%	200
" 20%	161
" 10%	129
Normal Load	100
Overloaded 10%	82
" 20%	70
" 30%	58
" 40%	48

. NEWEST AND LARGEST OF TE LINE OF EARTHMOVERS!

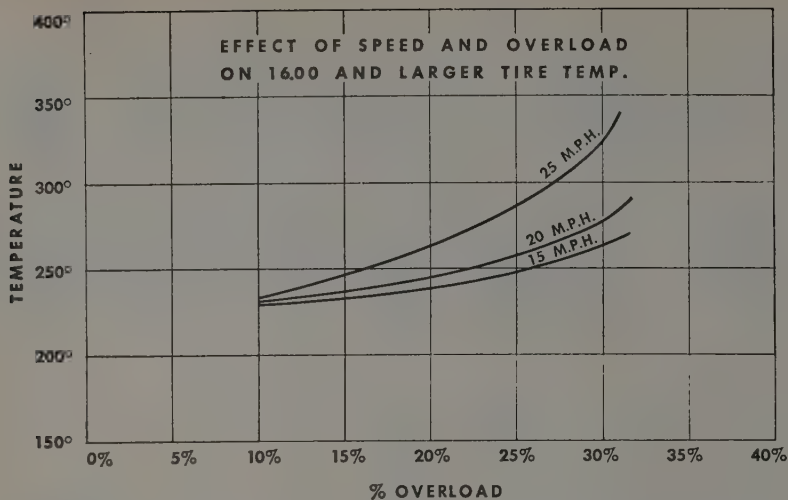
The 26 yd. CW-226 is the newest and largest addition to the Curtiss-Wright line of self-propelled scrapers . . . and the newest and largest *practical* unit for your job. It's a *high speed* machine with *exclusive* Curtiss-Wright "Roto-Gear" steer and 375 h.p. engine for the maximum in speed and control—A *high output* machine combining all the tested and proven features that give heaped loads, smooth spreading and fast cycles—A *dependable* machine with rugged basic design and unit construction for long life and simplified maintenance . . . All these features put the Curtiss-Wright CW-226 years ahead in design—yards ahead on the job, and put YOU dollars ahead on the profit sheet . . . see it in action!



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WESTERN DESERT HEAT ADDS TO THE EFFECT OF SPEED AND OVERLOAD

heat and high speed on hard haul roads exist. Handling sharp, freshly blasted rock can be done with least damage to tires if vehicles are run slowly (except on clean haul roads). Tires should be large enough that tire pressure can be kept at the lower levels recommended for the tire size in use without excessive deflection.

High speed is bad because the tires hit the sharp edges of rocks with a force that increases at a rate equal to the square of the speed. For example: at 30 mph. the cutting force is not 50% greater than at 20 mph., but on the order of 90 compared to 40, or 125% greater.

If tires are inflated to maximum levels or, due to overload and long fast hauls, have experienced considerable pressure build-up, the flexing is restricted. This reduces the ground contact area. That means the load per square inch of contact area is high and when the tire strikes the sharp edges of rocks, penetration is easier and cuts go deeper.

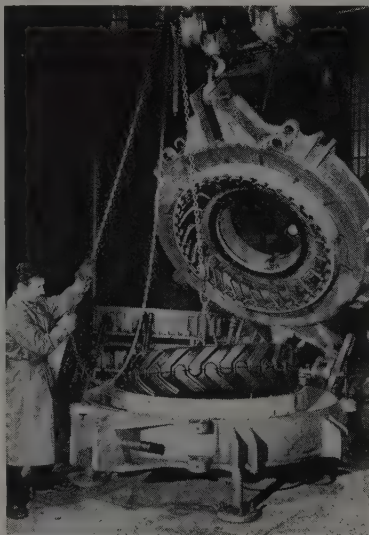
A recent development to give greater cut resistance to tires for earth-moving vehicles is the use of wire in the breaker area between tread and cord body to stop rocks. This type is a standard stock item in sizes to 1200-24 and may be obtained by special arrangement from several of the tire manufacturers in 1400 and larger sizes.

Cuts in the tread rubber alone do not weaken the tire and if skived out to prevent holding of small stones and dirt, the damage will not be a cause of separation between tread and body nor mean much in loss of tire life. The cut into the cord body through part

of the plies will be affected by the flexing of the tire as it turns under the load. This is especially serious at or near the shoulder, causing cords in additional plies to break until the internal pressure is greater than the strength of the remaining sound plies—then a blowout.

Periodic inspection of tires is a "must" for early detection of tread cuts which should promptly be skived out. In the case of deeper cuts the tire should be removed from service for repair by vulcanized reinforcements under the damaged points.

When tires are worn to the point where very little nonskid design is



LOSS OF TREAD to a point where little nonskid design is left on the center line makes a tire vulnerable to damaging cuts that could end its useful life. Reliable recapping can restore the protective tread and double the tire's service.

left at the center-line of the tread, cutting into the tire body can happen quickly and to a serious degree. Rather than lose up to one-third of the potential service of a tire, a reliable recapping service can restore the full protection of an entire new tread. This will be found to be a good investment.

Adding the cost of the recap—40 to 45% of the new tire cost—may result in double the service which otherwise would be obtained.

Conclusion

Tire performance depends not only on careful selection and good maintenance by the service crew, but also on the vehicle operator's understanding of his responsibility.

Men who wouldn't dream of taking chances of turning over and wrecking a \$30,000 to \$50,000 vehicle will take chances on ruining a \$10,000 set of big tires by positive carelessness.

The contractor's chances of keeping tire bills low in 1959 will be improved immensely if, in addition to having good tires and good tire service, he will select good vehicle operators and by training and supervision assure careful treatment of tires 100% of the time.

Asphalt plant inspection

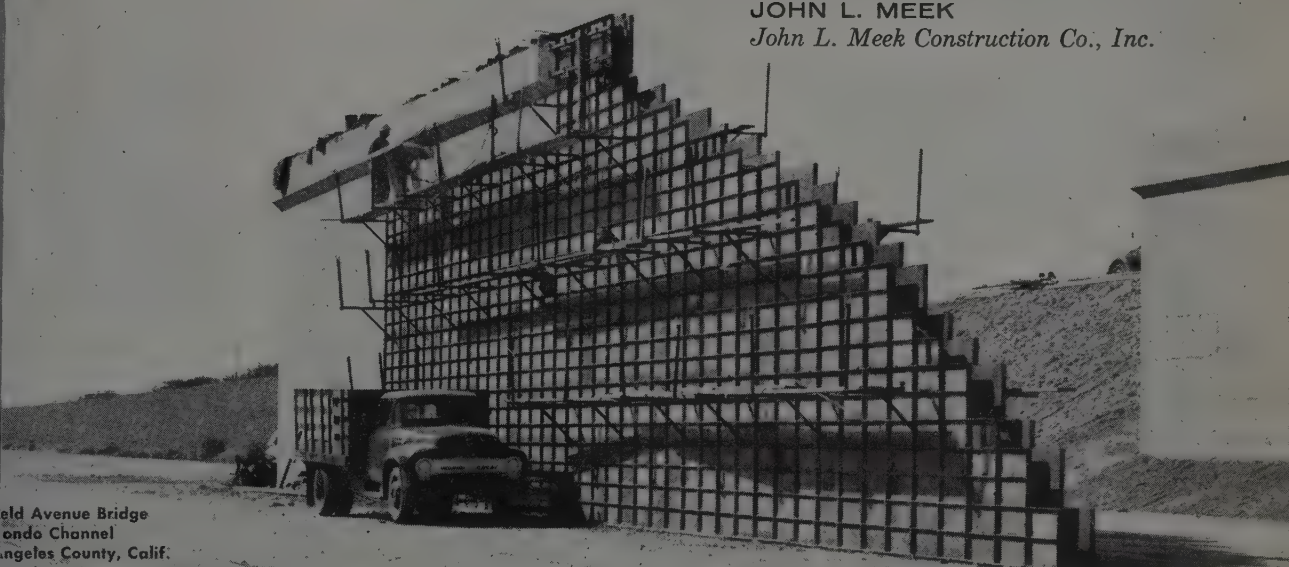
AN authoritative text on asphalt plant inspection, the first of its kind, has just been released by The Asphalt Institute at its headquarters in College Park, Md. Titled the "Asphalt Plant Inspector's Manual", the 190-page illustrated volume describes in careful detail the operation and function of the continuous mix plant and batch plant. It discusses material handling and storage and devotes a chapter to sampling, testing and mix control.

The text is complete with five appendices that include tables and forms, field laboratory and equipment, test methods, trial and error combination of aggregate, and procedures for calibrating a continuous mix asphalt plant, etc.

The manual will serve as a practical and valuable reference source for the student, the inspector, and for the engineer who is concerned with the production of an asphaltic paving mixture that conforms to exacting standards. For further information, write to your nearest Asphalt Institute engineering office.

any men were **UNI-FORM EXPERTS**
an hour after they began using them"

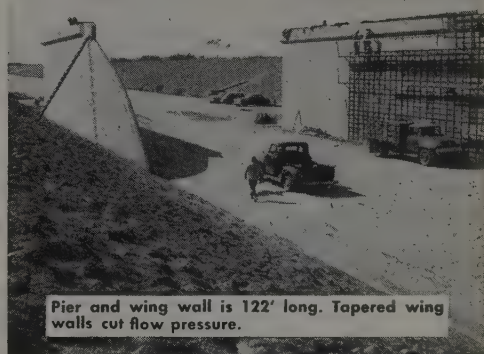
JOHN L. MEEK
John L. Meek Construction Co., Inc.



Field Avenue Bridge
Pondo Channel
Los Angeles County, Calif.

Stripping center of 3 piers. Piers were 26' high, with 40" cap. UNI-FORM Scaffold Brackets attach to steel frame of UNI-FORMS.

inexperienced crews—men who have never used them before—can become experts in the handling and erection of UNI-FORM Panels in an hour or two, with big savings in time and labor . . . faster job progress and lower all around cost. Simple mechanical assembly of UNI-FORM Panels permits fewer men to erect more contact area per hour than is possible with any other job-erected formwork system. The John L. Meek Construction Company's experience with UNI-FORM Panels is typical—quick mastery of the simple UNI-FORMING technique resulting in faster forming with less labor. A good reason why more concrete is being formed every day with UNI-FORM Panels . . . why more contractors are using the UNI-FORM System for all their forming, regardless of type or size of the job. Write for the UNI-FORM Catalog—illustrates and describes the complete UNI-FORM System.

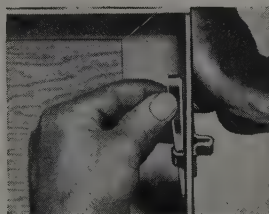


Pier and wing wall is 122' long. Tapered wing walls cut flow pressure.

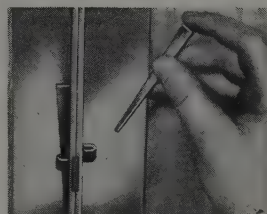
UNI-FORM ASSEMBLY IS SIMPLE AS THIS:



1. UNI-FORM Tie Loop is placed into the square tie hole of Panel.



2. Tie Key is set into the Tie loop. This locks tie and Panel into 1 unit.



3. Bring next UNI-FORM Panel into position. Insert Tie Key in other Tie loop. Assembly is completed.

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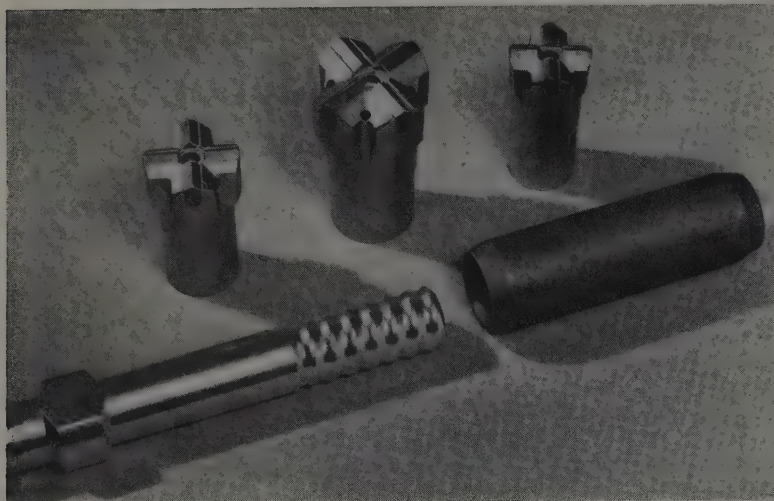
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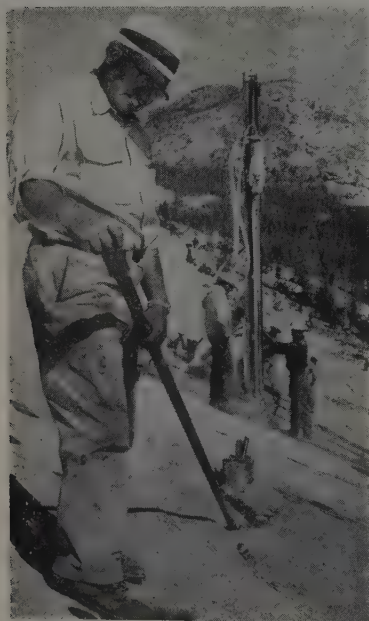
2051 WILLIAMS STREET

New drill steels get Western test



Cold rolling of Swedish alloy steel extends rod life and a new rope-like thread permits hand uncoupling. Information from extensive field testing on mountain highway projects reported.

DRILL STEELS of a new round type, formed from Swedish cold-rolled alloy steel and coupled by a unique rope-like thread, have been



DENSE GRANITE formations in California's high Sierra have been an exacting proving ground for new type of extension steels. Max Christensen, drilling foreman for Harms Bros., examines one of the unique rope-threaded rods used on Yosemite National Park highway job.

producing footage records since their introduction to the Western construction market last summer.

The new steels, with matching carbide-tipped detachable bits, are presently under test or in full-scale use on about fifteen Western highway and hydroelectric projects. A recent jobsite spot check indicates contractors are experiencing: (1) bit footages ranging from well above average and double the footage between sharpenings, to higher figures; (2) 100% hand uncoupling; (3) rod life double and treble that previously obtained in hard or fractured rock; (4) greater rod rigidity, resulting in straighter holes; and (5) re-threading of broken steels without need for heat treating.

Drilling techniques, both in benching or in horizontal holes, are conventional with these new round Swedish steels. The difference in results, appears to come from the basic material and its unusual thread design.

Domestic long-hole steels are usually of hexagonal shape, formed by hot rolling which metallurgists concede causes some molecular disturbance. Satisfactory surface hardness, necessary to avoid frequent fracturing in use, is achieved through one of several hot carbon or acid impregnation processes. However, this "carburization" or hot case-hardening complicates re-

threading of domestic steels, as the required heat treating to re-thread destroys the hard finish.

Prime quality ore plus a nickel and chrome alloy enables the Swedish mill to form its rods by cold rolling from billets, giving a tough core with a hard surface that requires no further finishing. As a result, re-threading can be accomplished on an ordinary lathe without heat treatment.

Totally new to U. S. rock work is the patented Swedish development of the rope-type of thread. This greatly-rounded joint (two complete turns per inch) differs from the standard domestic reverse buttress or "saw-tooth" thread.

The greater metal-to-metal contact at each connection point with the rope design, and its more uniform distribution of drilling shocks throughout the threaded portion, appears to be the key design advantage of this new joint.

Contractors are impressed by its easy hand uncoupling. Buttress threads sometimes jam so tightly it requires as much as 10 or 15 min. for the driller and his chuck-tender to free them. These rope-threaded rods also show greater freedom from structural weakness in the threaded portion, a common starting point for metal failures.

This better shock distribution quality also seems to reduce wear on threads, holding the carbide bit more securely for a longer length of time, decreasing non-productive wear on the inserts.

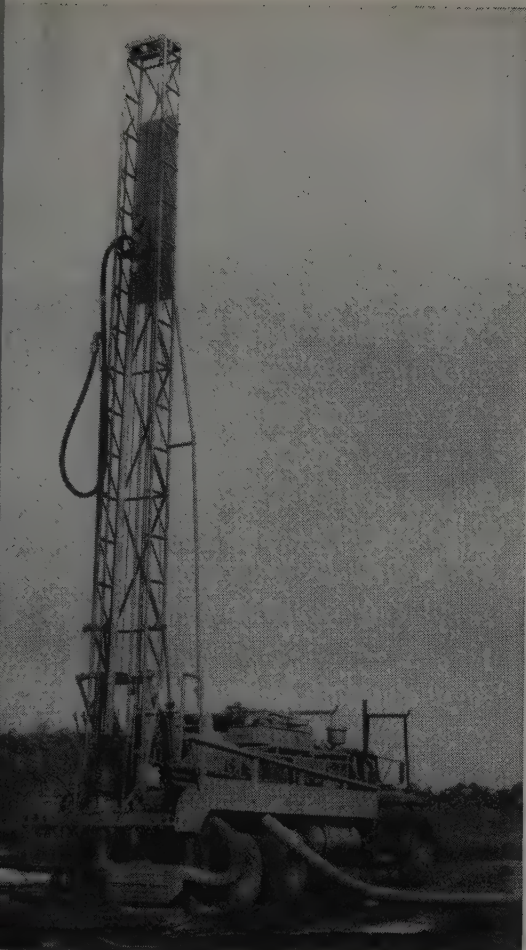
Other design differences in the Swedish product include: (a) a longer skirt on the matching thread detachable bits that is claimed by manufacturer to give "full, uniform bearing on all threads;" (b) elimination of the common semi-bridge in the coupling sleeve where fractures frequently occur (rod ends in the rope-threaded type butt against each other); (c) a 5/8-in. center flushing hole that removes drill cuttings much faster, increasing drilling speed bit life.

Reports from the field

Recent spot checks at several California mountain highway relocation jobs turned up these comments on the new steels:

Harms Bros. is relocating 7.5 mi. of the old Tioga Pass road across the Sierra Nevada in the upper

(Continued on page 62)



ing bore hole in a hurry with the Gardner-Denver Drill". It follows the bit down the hole, delivers more energy to the bit than any other drill of its size.

Drill Steel

Made like tough rock drill parts

—carburized and shot-peened to increase fatigue resistance. Has same soft-core, hard-case structure used in superior rock drill parts.

Made from quality steels

—only the best alloy steels are used for Gardner-Denver drill steel to insure uniform hardening and extend service life.

Threads, couplings designed for the job

—Gardner-Denver threads and couplings are extra long . . . designed for greater strength and durability.

Make the most of your drill steel investment—go Gardner-Denver.

Ring Seal Shank
—trouble-free, long wearing.

Couplings—
Gardner-Denver design, carburized and shot-peened.

Threads—
specially long for greater durability.

Rods—
specially treated like finest quality rock drill parts.

Standard Carbide Bits screw directly on Gardner-Denver threaded rod. Bit adapter also available.



That's why heavy-rock contractors go GARDNER-DENVER

When it comes to moving mountains of rock, contractors rely on Gardner-Denver. These men know how Gardner-Denver equipment performs on the rough jobs. They know it's

built to last longer . . . stands the gaff with minimum maintenance . . . gets the job finished faster at lowest cost. Drop in and see your nearest Gardner-Denver distributor soon.



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See manufacturer's detailed listing in Yellow Section

reaches of Yosemite National Park. Its two connected contracts totaling \$1,200,000 are in their second year and will require a third for completion, because of the short work season at the 8,140-ft. elevation. J. A. "Jim" Sheldon is project manager, Al Pearce superintendent, and Max Christensen drill and power foreman.

The Swedish rope-threaded extension steels now are standard equipment on Harms air-tracks drilling 300 to 400 ft. per 10-hr. shift. The stratified granite has shown as many as 14 separate laminations in a 20-ft. depth.

Pearce: "Footage is a minimum of 1,500 ft. per bit, and they are averaging double the footage between sharpenings we previously obtained. Normal bit life had been 16 to 20 resharpenings; several of the new ones gave us 40% more usable life, taking 27 sharpenings by actual count."

Christensen: "Rod breakage is almost non-existent; I think only one piece has broken all summer long. Uncouple by hand all the time."

Fredrickson & Watson Const. Co. has a pair of contracts on all-year trans-Sierra U. S. 40. Some 14 mi. of new road, east of Truckee and south from Truckee (Route 89) toward the Squaw Valley scene of the 1960 Winter Olympic Games, are involved. Project manager is Karl Poss.

Steels are used in crawler drills producing as much as 975 ft. of hole per 12-hr. day, both in sinking 30-ft. holes into formation that includes hard blue andesite, and in driving 40-ft. horizontal holes for one 340,000-cu. yd. cut.

Drill foreman Ed Darden reports: "Bit and rod life are well above average, probably more than 5,000 ft. of hole per rod. Easy hand uncoupling saves a lot of down-time. We also licked the problem of con-

ventional steel bending so much in this tough rock that we actually couldn't load some holes; the new steels are more rigid all the way through—drill straighter holes."

Wood-Kirst Co. holds another in the series of major U. S. Highway 40 contracts, for more than 6 mi. in the Soda Springs-Hampshire Rocks area. Work on this job is now virtually complete, so the contractor's careful testing of the new extension steels was primarily to compile experience records for future equipment purchases.

According to veteran Jess Robinson, *Wood-Kirst's* drill superintendent, three of the rope-thread bits (with matching rods) were subjected to a special continuous-use test. Alternated on a pair of air tracks, and resharpened as necessary at the

work site with portable air-operated grinder, they were purposely run until worn out.

"One bit gave us 3,600 ft. of hole and the second went 4,200," Robinson reported. "Compared to the footage we had been getting in the same dense granite and diorite with other bits, these figures were remarkable."

Most popular with Western contractors has proved to be 1½-in. round rods, fitted with 2¾ and 3-in. carbide insert bits. Rope-thread types also are made in 1¼ and 2-in. rods, in standard lengths from 6 to 20 ft. Bits ranging in diameter from 2¼ to 5 in. are available.

All are Sandvik Coromant products, distributed in the Western states exclusively by Atlas Copco Pacific Inc., San Carlos, Calif.

PAVING OUTFIT

(Continued from page 43)

surface course. With that exception, both courses were composed of the same materials. Both courses were also 1¾ in. thick, compacted.

Use of a surge bin for storing up to 30 tons of hot mix between trucks was also good. It saved A&E at least one truck; perhaps two. It also eliminated the possibility of delay while trucks maneuvered under the pugmill discharge. Use of a surge bin was a practical necessity, chiefly because of drive-through haul road under the pugmill would have cut deep below the ground-water table.

The plant drier also performed according to expectations. Peak production of 209 tph. was developed with aggregates in a near-saturated condition. The fuel injection system at the time ran at its capacity of 400 gph., giving a drying ratio of about 2 gal. per ton. On the dry surface material at the start of the job the ratio was 1 gal. per ton.

The rental system on trucks was decided on, paying for the machines on a ton-mile basis. Franklin Bros., commercial truckers of Eureka, supplied Kenworth, Mack and Autocar units. From 20 to 30 tons per load were hauled to the paver per trip.

The material was bottom-dumped to form the proper windrow. The paver then worked continuously, as the small loader picked up the hot material and dumped it into the front-end hopper of the laydown machine. Paving started at the high point and

worked downhill toward Willow Creek, where the plant was located. The paver laid a 1¾-in. compacted mat 14 ft. wide at the rate of 42 ft. per min. Steel-wheel rolling completed the pavement.

Successful as the first job undoubtedly was, thanks to careful planning on Parnum's part, he already is making several additions. Tool and supply racks are to be built into each of the trailers which house the Caterpillar power supply engines. Another large trailer-van is to be purchased for use as a shop and rolling warehouse. The asphalt tanks are to be completely equipped, with wheels, for over-the-road portability.

The manufacturer is also making a few minor changes on the asphalt plant so that it will more than meet California Division of Highways requirements. About 450 gal. of asphalt storage will be provided at the pugmill, with an automatic plant cut-off in the tank should the bitumen get low. The fines return from the dust collector will be evened up by installing surge storage and a vibrating feed. Current variations in power supply will be controlled to near-zero tolerance by having a voltmeter, ammeter and frequency meter mounted at the central control board.

The inspector's sampling job will be made a white-collar affair by putting in scales and a small conveyor to handle large sized samples of material by machinery. Even the scale weights of various sizes will be punched automatically on a ticket, and valving arrangements will be made at the pugmill to prevent an aggregate-sampling pull from disturbing the accuracy of the mix.

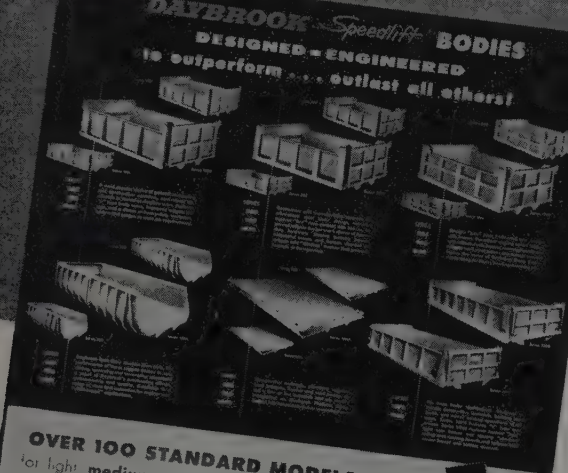


DRILL foreman Ed Darden of Fredrickson & Watson Construction Co., inspects a well-used example of the new rope-threaded carbide bits used on his firm's 14-mi. hard-rock highway job. As many as 27 resharpenings per bit are reported.

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Oregon's "toughest highway job" started by M-K crew



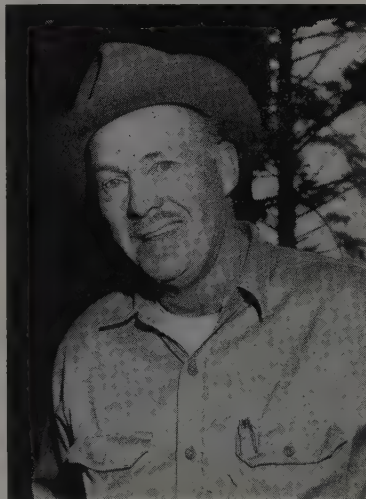
"THE ROUGHEST, toughest job on the Pacific Coast" is the way Jack H. Coons describes the largest dollar-wise and yard-wise highway project in the state of Oregon. Coons, project manager for Morrison-Knudsen Company, Inc., has responsibility for bringing to sub-grade 3.5 mi. of modern highway located along the Oregon coast north of Brookings. The 4,500,000-yd., \$2,550,000 job hugs the coastline and will be the new route of U. S. 101 when completed.

Work on the project got under way last June. Clearing approximately 125 ac. of right-of-way and pioneering the roadway kept a 50-man crew busy during summer and fall. Warren Albertson, logger, was contracted to bring his woods crews onto the site for clearing. Some of the 11 Caterpillar D8 tractors on the job have been used by Albertson's crews to move merchantable spruce and fir off the right-of-way.

"Our section from Thomas Creek to Hooskanaden Creek is only 3.5 mi. long," says Coons, "but the coastline is so eroded and heavily etched that the vertical distances must add another mile or two. Until we get the worst canyons and creeks filled some and smoothed down, we won't be able to get any real production." The terrain is so steep and heavily overgrown that four state survey parties were needed to stake the route ahead of clearing and pioneering crews during July.

"We have three new Cat D9 tractors with U blades and hydraulic tilt cylinders working on the pioneering," comments Project Manager Coons. "They're just about the best thing for moving dirt and one survey party just couldn't stay ahead of us."

Mitchell Humphreys is general superintendent on the job which includes two cuts of about 1,000,000 yd. each and one fill of 900,000 yd. Although no bridges are included in the contract, the largest multiplate culverts in Oregon will



JACK H. COONS, project manager on M-K's tough highway job that requires 4,500,000 yd. to place U. S. 101 in a location along the scenic ocean coast.

be installed. Five canyon bottoms will receive 96-in. multiplate installations, with the Miner Creek installation to be 1,078 ft. long.

"We're still moving equipment in for this job," says Floyd Williams, master mechanic. "It'll be a while before we get the complete spread. The high-speed rubber-tired equipment won't be moved on the job until next spring. The nicest thing about this job is the scenery, my shop facilities are on a point with the Pacific breakers just down the cliff . . . it beats any place I've ever set up shop in my years of experience."

The scenic beauty of the stretch is one reason for the new U. S. 101 course. The new highway will offer a close-up view to travelers of the famous Mack Arch (stone weathered by wind and water into a natural bridge shape) just off the coast. The existing highway winds through mountains and trees several miles inland from the coast at this point.

Equipment not previously mentioned which has already been delivered to the job site includes: a Cat No. 977 Traxcavator with Hyster backhoe, a No. 12 Motor Grader, a No. 473 Scraper, three Curtiss-Wright TC170 scrapers, two Gardner-Denver "Air Trac" drills, and three Ingersoll-Rand compressors.

Because of fire hazards at the wooded job site, Morrison-Knudsen has a new Ford F-600 woods fire truck on the spread which mounts a model 23 Edwards pump.

Bob Lammert is resident engineer on the job for the Oregon State Highway Department.

Dam studies begin on Olympic Peninsula

STUDIES are being undertaken for a proposed 200-ft. dam and hydroelectric development on the Hoh River on the western slope of the Olympic Peninsula. The investigation will be carried out by the Washington Public Power Supply system which would be taking over some previous studies made by the Clallam County Public Utility District. The District has agreed to turn over its rights, provided the project is reported as feasible and will be developed in the best interests of the Olympic Peninsula area. Since the Hoh River lies in the heaviest rainfall and snow area of the state, it represents an excellent source of hydroelectric power development.

C of E gives Columbia Basin plans

FURTHER DEVELOPMENT toward the ultimate program in the Columbia River Basin has been projected into the future by a study of the North Pacific Division, U. S. Corps of Engineers. The proposed developments are in the interests of flood control, navigation, power, reclamation and other water uses. This investigation was authorized by a Senate Committee in 1955 and public hearings were held in 1956 and 1957. The report has now been referred to the Washington office for final review and decision.

The report recommends the fol-

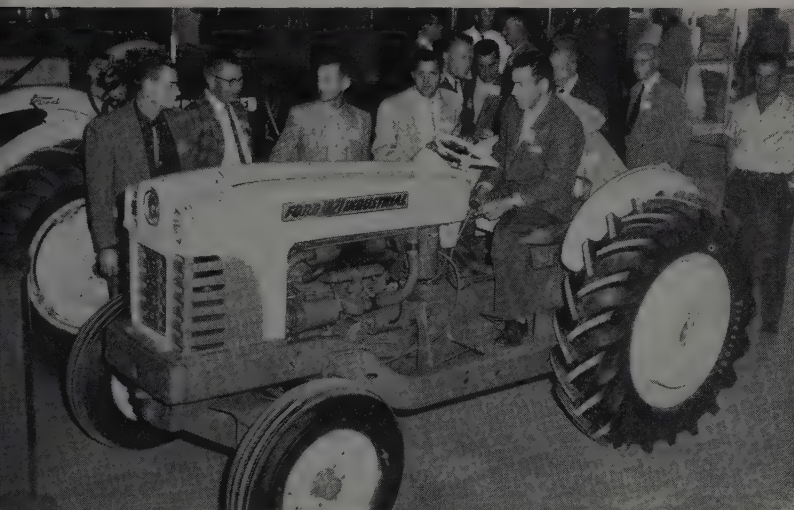
lowing major projects be authorized for construction: Long Meadows project, Yaak River, Mont., at \$25,700,000; Ninemile Prairie project, Blackfoot River, Mont. at \$54,893,000 (proposed by Bureau of Reclamation); Flathead Lake Outlet, Flathead River, Mont. at \$6,142,000; Knowles project, Flathead River, Mont., at \$234,900,000; Ena-ville project, Coeur d'Alene River, at \$78,000,000; Garden Valley Division, Payette River, Idaho, at \$146,100,000 (proposed by Bureau of Reclamation); High Mountain Sheep project, Snake River, Idaho

and Oregon, at \$226,333,000; Wen-aha project, Grande Ronde River, Washington and Oregon, at \$94,574,000; Asotin project, Snake River, Idaho and Washington, at \$125,680,000; Penny Cliffs project, Middle Fork Clearwater River, Idaho, at \$210,000,000; Bruces Eddy project, North Fork Clearwater River, Idaho, at \$127,166,000; and Navigation Extension to Rock Island Dam, Columbia River at \$64,868,000.

BuRec Glen Canyon office moved to Page, Arizona

THE BUREAU of Reclamation headquarters for the Glen Canyon Unit was moved from Kanab, Utah, to Page, Ariz., on Nov. 25, according to Acting Regional Director C. H. Carter. Page, Ariz., is the new town being constructed on Manson Mesa 2 mi. from the Glen Canyon dam site.

Sufficient housing for Bureau employees and temporary office space has been completed so that the entire office could move to the more convenient and permanent location in Page, Project Construction Engineer L. F. Wylie said. Part of the office and field engineering staff of the Bureau has been stationed at Page for some time. Now, the temporary office which has been at Kanab since 1956, has been closed.



New Ford industrial tractor shown

DEALERS HANDLING the new Ford Industrial Tractor line in Northern California and western Nevada were given a preview and field demonstration in Stockton, Calif. by Pacific Tractor & Implement Co., of Richmond. The demonstration included not only the tractors themselves but the complete line of accessory tools for both the new tractors and the regular line.

This new line of tractors by the Tractor & Implement Division of Ford Motor Co. has been designed to close the gap between the available medium capacity industrial

power equipment and high cost, high capacity special purpose earth-moving and construction equipment now on the market. The units are larger and heavier than the general purpose Ford tractors and with a 7,000 lb.-capacity front axle and rugged frame, the new models also include new design features to isolate the driver, engine and hydraulic system from the normal battering and shocks of operation. Further information on the new tractor and its features were reviewed in *Western Construction*, December 1958—pp. 104.

Glen Canyon Dam forms to be Blaw-Knox

NEARLY 2 mi. of 7½-ft. lift steel cantilever forms have been ordered by Merritt-Chapman & Scott Corp. from Blaw-Knox Co. for use in concreting Glen Canyon Dam. The order is believed to be the largest single order ever placed with Blaw-Knox for dam forms exclusively.

The forms will be used on the faces of the dam, and for longitudinal construction joints. Shipment of forms will extend from February until July 1959.

OLIVER OC-4

The popular "prime" mover that's perfectly sized for hundreds of major and cleanup jobs which rule out larger crawlers as poor economics. Ideal for confined-area operation, the OC-4 with "Spot-Turn" steering has the shortest turning radius of any crawler produced. Completely versatile, it works with loader, back hoe, dozers, scarifier, winch and other job-extending attachments. What's more, only the OC-4 in the 30 h.p. class gives you the choice of gas or diesel power, plus a selection of either "Travel-Reverser" or "Slo-Low" auxiliary transmissions. $\frac{5}{8}$ yd. loader.



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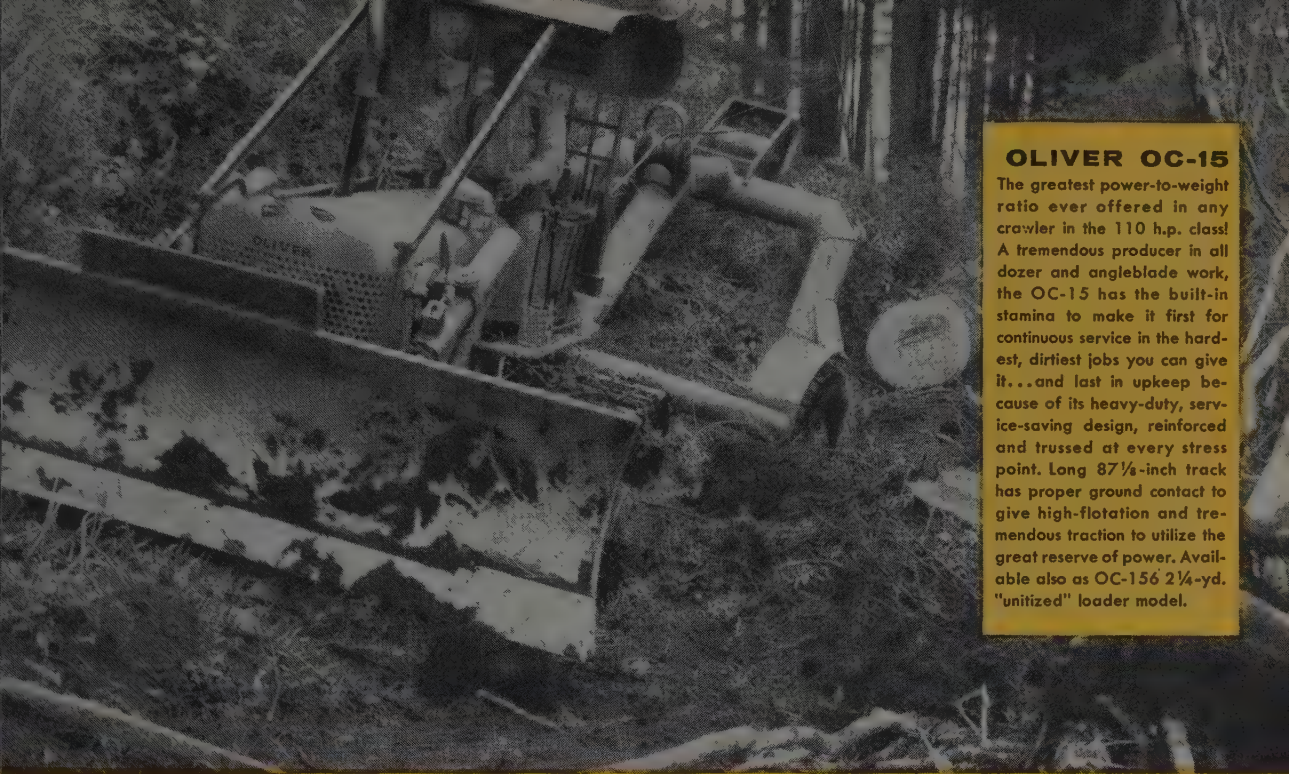
OLIVER

OLIVER OC-12

A production crawler that hastens the pace on any job you give it. Powered with a high-torque gasoline or diesel engine built for tractor service, the OC-12 is the full-featured crawler in the popular 50-60 h.p. range. It will shoulder the load of the toughest work schedules and bring you through with extra earnings with its easy, time-saving "Spot-Turn" steering... rugged track frame and free-turning track rollers for smooth, friction-reducing action... heaviest duty frame and final drive construction... high-clearance design. Also rapid-cycle OC-126 1 $\frac{1}{2}$ -yd. loader model.



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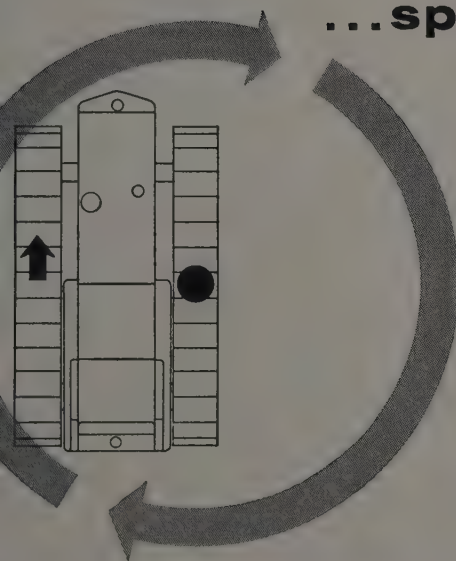


OLIVER OC-15

The greatest power-to-weight ratio ever offered in any crawler in the 110 h.p. class! A tremendous producer in all dozer and angleblade work, the OC-15 has the built-in stamina to make it first for continuous service in the hardest, dirtiest jobs you can give it...and last in upkeep because of its heavy-duty, service-saving design, reinforced and trussed at every stress point. Long 87 1/8-inch track has proper ground contact to give high flotation and tremendous traction to utilize the great reserve of power. Available also as OC-156 2 1/4-yd. "unitized" loader model.

SPOT/TURN clutch steering

**eliminates foot braking on turns
...speeds operation, cuts costs!**



New Oliver "Spot-Turn" clutch steering gives you the finest combination of maneuverability, operating ease and safety you have ever seen in a crawler tractor.

With "Spot-Turn" clutch steering you get locked-track, right-about faces or gradual turns merely by simple, single-lever control. No effort-expendng foot braking is called for—pull the lever and *automatic* braking is delivered instantly. Pull both levers and the tractor stops in its tracks instantly!

"Spot-Turn" is tops for simple tractor operation. Steering is always the same—uphill, downhill, pushing or pulling, with load and without—cross steering is completely eliminated. By being able to feather your turns, you have perfect control no matter what the terrain.

What could be simpler and safer in crawler tractor operation—or contribute more to increased tractor earning power?



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ALASKA Newsletter

By CLIFFORD S. CERNICK, Fairbanks

A NEW CONSTRUCTION YEAR—This is 1959—The Big Year, I suspect, in Alaska's construction industry. There are a number of reasons for this and I'll discuss them a little later. Right now, I'd like to take a quick look backward at the year just past and point to a few significant events which come to mind. The year 1958 will always be remembered by Alaskans as the year the Territory achieved statehood. In the construction industry, 1958 is memorable for a new phase of defense construction—the mammoth missile detection base at Clear. The year is significant also as the year in which plans were announced for atom blasting a harbor at Cape Thompson on Kotzebue Sound, 250 mi. south of Point Barrow. Although not a banner year so far as volume of construction is concerned, 1958 saw great strides in Alaskan defense construction and a firm level of activity for contractors operating in the new state.

STATEHOOD YEAR—What opportunities for the construction industry will open up now that Alaska is a state? During 1959, new growth for Alaska under the stimulus of statehood and influx of population appears assured. Let's take a look at just one segment of this new situation developing in Alaska as a result of statehood: population increase. Any substantial increase in Alaska population will require additional housing to accommodate the new residents. New streets, sidewalks, sewers, water mains and power lines must be constructed to service the new residential areas. This ultimately will result in new shopping centers to house the necessary retail outlets required to supply an increased population. All of this means contracts and jobs for construction men. The unknown factor, of course, is just how great the population increase will be. When this question is answered, the scope of construction activity which will result will be revealed.

EYES NORTHWARD—Thousands of Americans are looking northward with great interest these

days and construction men are no exception. Employment and union officials and representatives of contractors report to me that they've been literally "swamped" with inquiries as to opportunities in the new state. An official of the Associated General Contractors in Anchorage revealed that the inquiries he is getting in his office "indicate that thousands of people are planning on moving northward in 1959." He added that in answering the heavy volume of correspondence he advises newcomers to be assured of employment before bringing their families to Alaska.

MILITARY CONSTRUCTION—Alaska's total construction volume for 1959 will undoubtedly show a marked increase over 1958 totals. Military construction will still be the largest single factor in the Alaska construction industry. Defense construction projects—new and already authorized—will account for the lion's share of military expenditures in the state. Work will be pushed rapidly at the Clear defense site and at other continental defense outposts.

COMMERCIAL CONSTRUCTION—Never before has the outlook for commercial construction in Alaska been more promising. An example of this is the ambitious plan for developing a portion of the business district of the city of Anchorage which only a few years ago was a forlorn-looking Alaskan frontier-style village. Texas oilman Michel T. Halbouty and Anchorage contractor Walter Hickel have teamed up to build a multi-million dollar office skyscraper in the city. Two large hotels are planned in Anchorage and one has been proposed for Fairbanks. The Safeway chain of grocery stores has announced plans for outlets in Anchorage. There are reports that this and other chains will establish branches also in Fairbanks. Statehood is expected to bring not only an influx of new people but also of new capital to Alaska.

ALASKA POWER PROJECTS—Alaska's tremendous hydroelectric

potential is certain to undergo intensified development in the next few years as the need for power in the new state grows. The hydro potential in Alaska has been estimated at some eight million kilowatts, of which less than one percent has been developed. The League of Alaska Cities, an influential Alaskan organization, has urged the U. S. Department of the Interior to enlarge and accelerate its hydroelectric power development program. Other than the 32,000-kw, Eklutna project near Anchorage, the state has no major power project. Alaskans feel that low-cost hydroelectric power will be required to attract new industry and population.

AIRPORT CONSTRUCTION—Need for extension of the Fairbanks and Anchorage International airports so they can accommodate modern jet airliners has been expressed repeatedly by leaders in both cities. It appears that these two airport extension projects—which will cost more than \$10,000,000 in the aggregate—have the green light from the Department of Commerce in Washington, D. C. On a recent trip to Alaska, Secretary of the Interior Fred A. Seaton said he had recommended the extension projects but pointed out that appropriations for the projects would have to be made by Congress. Seaton also announced that a \$2,000,000 paving job would be undertaken at Anchorage International Airport. Eight new airports and improvements on five existing airports in Alaska have been scheduled by the Alaska Aeronautics and Communications Commission. The program for the next fiscal year will involve construction totalling \$1,742,169. New airports are planned at Arctic Village, Beaver, Hooper Bay, Kaltag, Noatak, Nondalton, Shishmaref and Kivalina. Improvements will go in at Homer, Ketchikan, Minto, Shaktoolik and Seward.

APPROVE BOND ISSUE—In the recent elections, Juneau voters approved a \$1,487,000 bond issue for improvements to that city's water system. Financing of the issue will be through the 1% sales tax now in effect. The program will boost the water system's capacity to serve 9,000 customers. At present, only 7,500 can be served. Construction of a 1,000,000-gal. reservoir, replacement of portions of the present water line, and new transmission facilities are planned.

• **Providing the Steelwork for Today's Modern Dams**



Equipment totaling \$4 million was supplied by Yuba Manufacturing Division for the huge Ice Harbor Dam project on the Snake River, Washington.

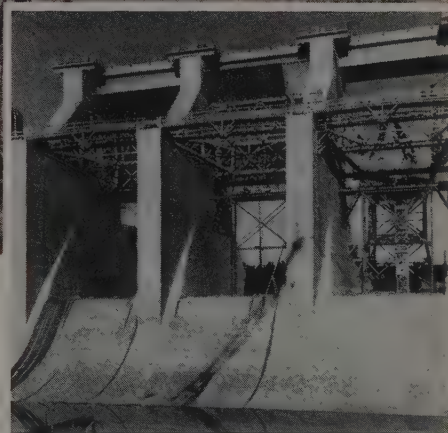
- **From Forebay to Tailrace**
- **Design • Fabrication • Erection**

The giant radial gates shown here, the massive trash racks, the draft tube, traverse and intake bulkheads, and a number of other steel fabricated components totaling 44 in all, were produced by Yuba Manufacturing Division.

This enormous project of the Army Engineers is typical of the many dam construction jobs in which Yuba has been a major participant. The reasons: decades of experience in this specialized field; real know-how of its skilled personnel; large, fully-equipped production facilities—East and West.

Where user and contractor want relief from coordinating production, delivery and installation, they can call on Yuba to handle the complete job as a package responsibility—from forebay to tailrace—through design, fabrication, erection.

Ask for Bulletin No. HY-51, describing Yuba's hydroelectric equipment and services, or ask for a sales engineer to call.

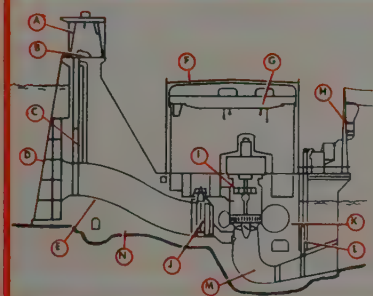


Ten giant Yuba-built spillway tainter gates, 50 feet wide and five stories high, weigh 145 tons each.



Each radial gate was assembled at the plant, match marked, then disassembled and shipped on gondola cars to the site—four cars to a gate!

Call on Yuba for the complete package responsibility...



- (A) GANTRY CRANES
- (B) HOISTS
- (C) INTAKE GATES
- (D) TRASHRACKS & TRASH RAKES
- (E) CONDUITS, LINERS AND PENSTOCKS
- (F) STRUCTURAL FABRICATION
- (G) BRIDGE CRANES
- (H) POWERHOUSE STRUCTURES
- (I) PIT LINERS
- (J) BUTTERFLY VALVES
- (K) SPIRAL CASES
- (L) DRAFT TUBE GATES
- (M) DRAFT TUBES
- (N) STEEL REINFORCING BARS

Yuba designs and builds a wide range of equipment for engineered construction:



Bridges

Buildings—Structural

"Moval" Earthmovers

Highway Program

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IN THE WEST: Plants—**Yuba Manufacturing Division**, Benicia, California; **Judson Pacific-Murphy Corp.**, Emeryville, California; Sales Office—520 Balfour Building, San Francisco.

YUBA CONSOLIDATED INDUSTRIES, INC.

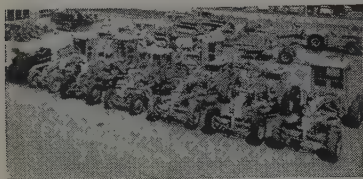


Plants and Sales Offices



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For the best buys in your area, to be *sure* of what you're buying, see your Caterpillar Dealer. You'll find him listed in the Yellow Pages!

Caterpillar Tractor Co., San Francisco, Cal.; Peoria, Ill., U.S.A.

CATERPILLAR

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**BEST BUYS IN NEW
AND USED EQUIPMENT**

... for more details, circle No. 40

HAWAII Report

By ALAN GOODFADER, Honolulu

SELF-SUPPORTING—Nordic Construction Co. has finished construction of a self-supporting concrete shell that will serve as a super-market here. The shell contains a half-acre of concrete poured by the Honolulu Construction & Draying Co. It is one of the largest structures of its kind in the world. It's part of a \$1,000,000 shopping center project of Nordic's.

CLOSE CALLS--The Territorial Highway Department is crowing these days about its ability to estimate construction costs. It estimated that 41 jobs in the year ending last July would cost \$16,767,323. The estimates were just 3.24% higher than the total cost of the jobs. The Territory keeps its estimates secret until after the bidding on its projects.

YE GODS—Madam Pele, Hawaii's goddess of the volcano, has entered the Territory's construction industry. The first commercial shipment of a new island building material has reached Honolulu from the Kona coast of the Island of Hawaii. It's light-weight concrete aggregate made from volcanic pumice. Volcanite, Ltd., the manufacturer, says concrete made with the aggregate weighs less and supports more than ordinary concrete.

OUTLOOK BRIGHT—Hawaii's economy will continue to boom along, according to the Bank of Hawaii. Its November prediction: "A substantial recovery from the general economic effects of the sugar strike, a marked upturn on the Mainland, a record level of construction and the prospect of substantial new industrial development assure a strong year-end for business in Hawaii, with good prospects for continued gains during 1959."

BRANCHING OUT—Hawaiian Dredging & Construction Co., Ltd., will be operating a steel fabrication plant by the first of the year. The \$80,000 plant is nearing completion. The plant will be equipped to do tank work, lighter steel fabrication, repairs and forming work.

NEW PROJECT—The Public Works Office of the U. S. Navy

here will supervise construction of a \$400,000, 13-building new headquarters for the U. S. Coast and Geodetic Survey at Oahu's Ewa Beach. Island labor and materials will be used. Work is scheduled to begin next March, and to be finished by January 1960.

CAPITAL IMPROVEMENTS—A committee of Honolulu city officials has proposed that the City spend \$157,500,000 on capital improvements from 1958 to 1963. The Board of Supervisors must decide whether to adopt the program. The decision will be difficult because the program will cost \$34,600,000 more than the City can afford under present revenue expectations. Among the proposals are: \$28,000,000 in school construction; \$4,700,000 in flood control work; \$53,500,000 in school site purchases and school construction; \$8,000,000 in parks projects; \$1,400,000 for improvements to the City's hospital for the chronically ill; \$3,000,000 for two new refuse incinerators; \$26,000,000 for sewer system expansion; \$6,000,000 for slum clearance, and \$5,000,000 for a municipal auditorium project.

WHAT'S NEXT?—Will there be any jobs left after the military gets through building \$83,000,000 worth of Capehart housing here? There certainly will, says Thomas K. Hitch. Hitch is research director for the Hawaii Employers Council. He told the General Contractors' Assn. recently that \$1,000,000,000 in immediate major construction projects and the housing needs of Hawaii's booming population will keep the industry busy. The expanding needs of a growing population and the need to replace old buildings will continue to provide work for contractors, he said. He also said labor costs are about 60% of the total cost of construction here.

ELECTION AFTERMATH—William C. Vannatta, former Honolulu City Engineer who made his second try for mayor this year, is licking his wounds in silence after his second defeat by Mayor Neal S. Blaisdell.



Special report to Caterpillar owners:

Parts you can trust. Dependable, round-the-clock service.

PROOF OF THE DIFFERENCE IN THE CAT "HI-ELECTRO" HARDENED CUTTING EDGE

Whether loading scrapers or bulldozing, the cutting edge takes more punishment than any other part of the machine—more punishment today than ever before. New, larger, more powerful machines put greater demands on cutting edges. And the edge that's holding up best and lasting the longest is the Cat "Hi-Electro" hardened cutting edge—the edge with the difference. From all over the country, documented results from on-the-job comparative tests with other makes of edges confirm this fact. The best buy is the Cat edge.

• • •

Field tests prove that the edge with the difference, the Cat cutting edge, not only outwears other make edges of the same thickness; it even outlasts the thicker edges of other manufacturers. The reason: Caterpillar engineers perfected a hardening process to give steel the right blend of toughness and hardness—toughness to prevent breaking, hardness to prevent bending and rapid wear.

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Quality edges start with quality steel, tested in Caterpillar's laboratories for the right chemical composition and physical characteristics. Only steels meeting these exact specifications are accepted, and further tests are made at every stage of production.



ROUGH JOBS like this put cutting edges to severe tests. And here is where tough Caterpillar edges prove their superiority.



CROSS SECTION of edge showing armor-like case and its shock-absorbing core.

NOW AVAILABLE—NEW MULTI-SECTION 'DOZER EDGES

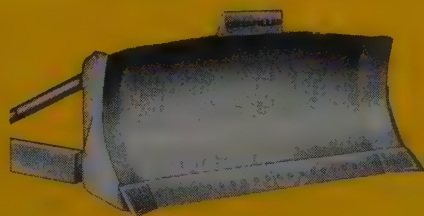
New multi-section 'dozer edges developed by Caterpillar for the D8 and D9 show the way to reduced blade costs and easier blade changing. Reduced blade costs can result from piece-by-piece replacement. You can now reverse and replace the worn sections. Changing is easier than ever before.

• • •

Service tip: When installing new or reversing "Hi-Electro" hardened edges, clean all dirt from the matching surfaces. Be sure that all bolt heads are properly drawn in to their holes and correct nut torque applied. This assures proper cutting edge support and maximum strength.

• • •

Your Caterpillar dealer has the complete story on the advantages of using the new Cat multi-section 'dozer edges. He backs you with dependable, round-the-clock service and parts you can trust. See him today!



NEW EDGES are now available for the D8 Bulldozer in left and right sections shown here. New edges for the D9 come in left, center and right sections.

Caterpillar Tractor Co., San Francisco, Cal.; Peoria, Illinois, U.S.A.

CATERPILLAR

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C of E changes surety

BONDED surety requirements have been changed on U. S. Army Corps of Engineers construction contracts, it has been announced by Brig. Gen. Robert G. MacDonnell, Division Engineer. General MacDonnell said contractors should carefully check the payment and performance bond schedules of future bid invitations for exact requirements.

The initially required penal sum of payment bonds will be 50% of the contract price where bids are \$1,000,000 or less; 40% on contracts \$1,000,000 but under \$5,000,000; and in the amount of \$2,500,000 for contracts bid at over \$5,000,000. If modifications are later required which effect an increase in price of the contract, additional payment bond protection may be required.

On performance bonds the penal sum will be 100% of the contract price. Here too, additional bond protection will be required if modifications to the contract effect an increase in price.



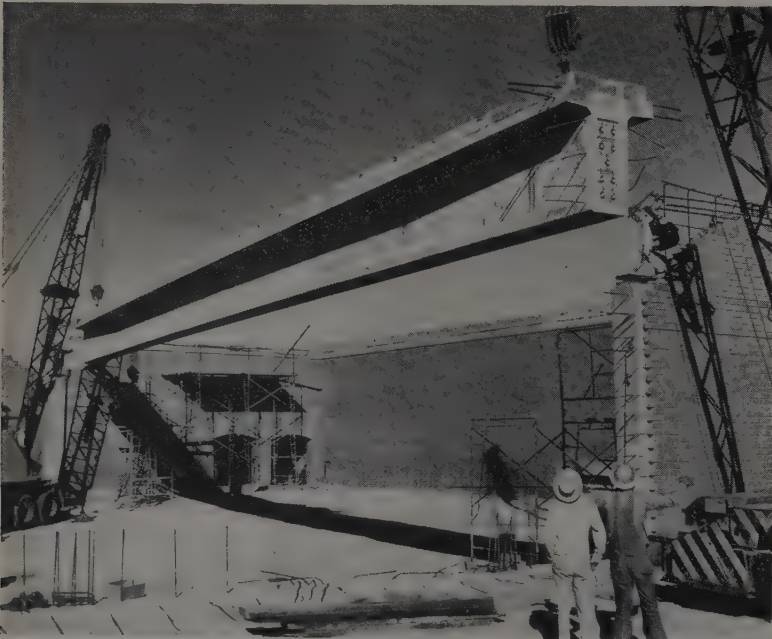
A. E. Graham dies

A. E. (JACK) GRAHAM, retired vice president of the Pacific Bridge Co., and a well-known construction superintendent throughout the entire West died last month at Garden

Grove, in Orange County, Calif. He made his home there since retiring five years ago. He was 68 at the time of his death.

Prior to World War II, one of his most notable accomplishments was directing construction of the foundation work on the Golden Gate Bridge. He was at Pearl Harbor on a construction project at the outbreak of World War II and directed salvage operations on many of the naval vessels during the following months. For this work he received national recognition and the Medal of Merit from the Navy in 1945. Last year he was awarded a "Beaver" in recognition of his outstanding accomplishments in construction.

The Fourth annual dinner meeting of The Beavers will be held at the Biltmore Hotel in Los Angeles January 14 and 15. The annual dinner will take place Thursday, January 15, at which time Beaver awards will be made to outstanding contractors and engineers for their contributions to the construction industry.



LARGE LIGHTWEIGHT PRESTRESSED BEAMS FOR SCHOOL

Four of the largest lightweight concrete beams ever cast are in place as supports for the roofs of the Auditorium, Antioch Unified School District, Calif.

The beams, placed to support a precast double tee roof, are 98 ft. long and 5 ft. 3 in. deep, yielding a clear span of 96 ft. They were plant-cast and posttensioned by Basalt Rock Company, Inc., Napa, Calif., and then trucked to the jobsite.

Precast of lightweight concrete (utilizing Basalite expanded shale rounded particle aggregate), the beams each contain 32¼ yd. of concrete, and provide strength of 5,000 psi. Each weighs 50 tons, with a gradual taper at the ends which are placed on rocker bearing plates atop concrete columns.

Posttensioning was achieved with nine cables of twelve .276 wires in each beam. Initial prestress force was 935,000 lb., with a working force of 774,000 lb.

Architects for the Antioch project were John Lyon Reid and Partners, A.I.A., San Francisco; Dr. A. G. Tarics of Reid's office was structural engineer. General contractor was Duncanson Harrelson Co., Richmond, California.

More Vandenberg work

CORPS OF ENGINEERS officials have opened bids on three more Vandenberg AFB projects which will total about \$1,250,000 of additional construction on the missile base. These new projects, according to Lt. Col. Allen W. Sanders, will increase the value of construction contracted for by the Corps of Engineers to \$60,000,000.

The announced estimate on the costs of constructing the base is about \$100,000,000, not including about \$18,000,000 more for construction of Capehart housing.

Spruce Park job studied

A FEASIBILITY report is scheduled for release next June by the Bureau of Reclamation on the Spruce Park trans-mountain diversion proposal in northwestern Montana. A reconnaissance report on the potential \$83,000,00 power and storage project issued a year ago indicated that the development has a favorable benefit-cost ratio and was worthy of more detailed study.

During the last year, additional geologic exploration and studies were made of routes for a trans-mountain tunnel about 5 mi. long, along with further water-supply and cost analyses. Previously, the dam site on the Middle Fork of the Flathead River was drilled under contract to determine foundation conditions.

The project would entail construction of an earth and rock-fill dam 450 ft. high and 2,000 ft. long on the Middle Fork just south of Glacier National Park, a 37,000-ft. tunnel, and a power plant at the drop into Hungry Horse Reservoir on the South Fork of the Flathead. At-site power generation is now placed at 78,000 kw., while downstream power benefits, at the Hungry Horse plant and a dozen others downstream on the Flathead, Clark Fork, Pend Oreille and Columbia rivers would be in the neighborhood of 100,000 kw.

The dam would create a reservoir with capacity of 400,000 ac. ft. Only flood flows of May and June (about 50% of the annual) would be stored and diverted from the Middle Fork to the South Fork. The Middle Fork a few miles downstream from the dam site marks the southwestern boundary of Glacier National Park, but park officials appear to be satisfied that sufficient stream-flow would be released or come in from side streams below the dam to protect fish life and scenic values.

Feasibility studies of the proposal have been conducted by Marcus O. Hilden, engineer in charge of the Missoula, Mont., branch planning office of the Bureau. His report is scheduled for completion next March. After review by the regional director at Boise, Idaho, and the chief engineer at Denver, the report is expected to be made available to Congress.

Oregon State buildings

REQUIREMENTS of higher education in Oregon will result in a request for more than \$30,000,000 to be placed before the 1959 Oregon Legislature for construction activity at several state institutions. In addition, more than \$10,000,000 will be requested for other than educational institutions. Largest individual project will be a \$3,300,000 science building at the University of Oregon, and next will be a \$2,700,000 building at Portland State College. Oregon State College will have a \$2,500,000 science building as well as a mechanical engineering building, estimated at \$1,400,000.

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For digging . . . for handling material . . . for any clamshell work—OWEN Buckets perform giant size jobs day in and day out. OWEN'S designing and engineering experience, gained through 50 years of manufacturing Clamshell Buckets exclusively, has developed a product that is guaranteed to out-perform any other make. Remember—the bucket is the working end of the boom and it is of the utmost importance that there is absolute assurance the bucket will do the job.

This experienced "know-how" in design and engineering has contributed to the origination of the only independent tine action Grapple to handle rock, scrap metal or pulpwood. The same unequaled quality construction in OWEN Clamshell Buckets is in OWEN Grapples.



OWEN Engineers are at your service any time at no cost to you. Send us your needs, stating exactly what are your requirements. We should have the answer that will "fit the bill to a T".



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Low bids and contract awards

COLORADO

ARIZONA

Hagen Construction Co. of Globe submitted two low bids for roadwork in Gila County; \$1,277,059 for 4.1 mi. of grading and surfacing on the Globe-Show Low highway on U. S. Rte. 60 and 70 east of Globe, and \$276,924 for grading and surfacing on the Phoenix-Globe highway. **Isbell Construction Co.** of Phoenix submitted a low bid of \$924,493 for 16.3 mi. of grading and surfacing on the Cordes Junction-Flagstaff highway south of Flagstaff in Yavapai and Coconino counties. A low bid of \$515,146 was submitted by **Wallace & Wallace** of Phoenix for 4.8 mi. of grading and surfacing southeast of Globe on State Route 77 in Gila County. **Mardian Construction Co.** of Phoenix submitted two low bids for roadwork on the Phoenix Interstate Freeway: \$403,296 for constructing 6 two-span overpass structures, and \$337,238 for constructing 3 two-span underpass structures, both in city of Phoenix, Maricopa County. A low bid of \$379,960 was submitted by **Haumont Contracting Co.**, Phoenix, for 1.8 mi. of grading, draining and surfacing on the Wickenburg-Kingman highway, Yavapai County. **B. L. Gustafson, Contractor** of Phoenix, submitted a low bid of \$117,131 for 4.2 mi. of grading and draining in Maricopa County. **Tanner Bros. Contracting Co.**, Phoenix, received a \$799,657 contract for 1.1 mi. of grading and surfacing on the Benson-Douglas highway west of the city of Bisbee in Cochise County. A \$410,517 contract was received by **Copper State Construction Co.**, Mesa, for 5 mi. of grading and surfacing on the Benson-Douglas highway, southeast of Benson in Cochise County.

CALIFORNIA

E. L. Yeager Co., Riverside, received two bids for roadwork in San Bernardino and Riverside counties: \$1,532,114 contract for 5.5 mi. of grading, surfacing and structures near Colton in San Bernardino County, and \$632,247 for realigning and reconstructing 8.4 mi. on U. S. Highway 395 in Lakeview, Riverside County. A low bid of \$1,467,980 was submitted by **Winston Bros. Co.**, Monrovia, for 4.4 mi. of grading, surfacing and structures between Sierra Ave. and Colton in

San Bernardino County. **Edward Keeble Construction Co., Inc.** of San Jose received a \$792,674 contract to construct the initial 4-lanes of six-lane divided highway south of San Jose and construction of a bridge over the Southern Pacific Railroad in Santa Clara County. **Gallagher & Burk, Inc.** of Oakland received a \$696,558 contract to construct a 2-lane freeway approach to the Richmond-San Rafael Bridge and related work in Marin County. **M. J. Ruddy & Son** of Modesto received a \$598,003 contract for 9.8 mi. of grading and surfacing north of Mercy Springs road, north of Los Banos, and bridge construction over the San Joaquin River, the San Joaquin River overflow and Salt Slough in Merced County. A low bid of \$596,757 was submitted by **R. A. Westbrook, Inc** and **Morrisson-Knudsen Co., Inc.** of Sacramento for 3.7 mi. of grading and surfacing, and construction of two concrete bridges on the Alfred Harrell Highway in Kern County. **W. E. Maxwell Co.**, Fortuna, received a \$596,166 contract for construction of interchanges at Haven and Milliken avenues on the San Bernardino Freeway east of Ontario in San Bernardino County. **Rice Bros., Inc.**, Fresno, received a \$578,320 contract for grading and surfacing 8.1 mi. of county road west of Kerman, through the town of Tranquility to Whites Bridge road in Fresno County. **McCammon-Wunderlich Co.** and **Wunderlich Contracting Co.** of Palo Alto received a \$564,447 contract to construct 2.7 mi. of modern two-lane highway on Route 29 through Yountville and construction of one bridge and facilities in Napa County. A low bid of \$364,783 was submitted by **Baldwin Contracting Co., Inc.** of Marysville for 6.8 mi. of grading and surfacing on Clark road in Butte County. **Lester L. Rice & Sons, Inc.** of Yuba City submitted a low bid of \$256,377 for 11 mi. of grading and surfacing on Road 80 south of Dinuba in Tulare County.

Teichert & Son, Inc. of Sacramento received two contracts for roadwork in Yolo and Solano counties: a \$274,374 contract for grading, widening and surfacing to relocate 1 mile of Courtland road, and construction of a bridge over Elk Slough, south of Clarksburg, in Yolo County, and \$182,377 for reconstructing and realigning 4.3 mi. of Peabody road south of Vacaville in Solano County.

Peter Kiewit Sons' Co., Denver, submitted three low bids for roadwork in Morgan, Denver and Jefferson counties: \$1,606,164 for 3.9 mi. of grading, structures and pavement between Kiowa Creek and Wiggins Jct. on S. H. 2 in Morgan County; \$268,790 for 1.2 mi. of grading, drainage and surfacing on Colorado Blvd. on S. H. 153 in Denver County, and \$198,839 for 3.4 mi. of grading, structures and surfacing near Deer Creek Jct. on S. H. 75 in Jefferson County. **C. L. Hubner Co.** of Denver submitted a low bid of \$881,613 for 8 mi. of grading, structures and surfacing on S. H. 185 in Weld County. **Harrison Construction Co.** of Denver submitted a low bid of \$603,600 for 5.3 mi. of grading and surfacing the entrance road to Mesa Verde National Park in Montezuma County. A low bid of \$603,795 was submitted by **Harrison Engineering & Construction Corp.** of Kansas City, Mo. for 6.7 mi. of grading, structures and surfacing on S. H. 2 between Roggan and Wiggins in Weld County. **Graham Construction Co.**, Pueblo, submitted a low bid of \$577,886 for 4.6 mi. of grading, structures and surfacing between Chimney Rock and Bayfield on S. H. 10, Archuleta and La Plata counties. A low bid of \$551,410 was submitted by **Vernal Sand & Gravel Co.** and **L. C. Steveson** of Vernal, Utah, for 8 mi. of grading, structures and surfacing from Axial south on S. H. 13 in Rio Blanca and Moffet counties. **Schmidt Construction Co.**, Arvada, submitted a low bid of \$438,825 for 18.6 mi. of asphalt resurfacing of U. S. 285 between Fairplay and Kenosha Pass in Park County. **Carl V. Hill, Greeley**, submitted a low bid of \$427,484 for 7.6 mi. of grading and surfacing between Steamboat Springs and the summit of Rabbit Ears Pass in Routt County. Two low bids were submitted by **Gardner Construction Co.**, Glenwood Springs: \$419,848 for 5.2 mi. of grading and structures west of Saguache on S. H. 114 in Saguache County, and \$285,800 for 11 mi. of grading and surfacing near Villa Grove in Saguache County. **Leone Construction Co., Inc.** of Trinidad submitted a low bid of \$398,106 for 12.9 mi. of grading, structures and surfacing between Hasty and Wiley Jct. in Bent and Prowers counties. **Western Paving Construction Co.**, Denver, submitted a low bid of \$354,658 for 3.5 mi. of grading, structures

Build your own $\frac{3}{4}$ yard Lorain-26 at the price you want to pay

Now you can buy a $\frac{3}{4}$ yard Lorain-26 with everything you want in it but no more than you need. You select the "package" you want—whether dragline, clamshell, shovel, crane or hoe, and you'll get the properly balanced machine to do your job best.

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And you'll be amazed at the lower prices your Lorain distributor can quote you. Check and compare what he has to offer you on this $\frac{3}{4}$ yard workhorse. You'll find you'll get more—and pay less. See him today.



LOW COST DIGGING PACKAGE

A heavy duty shovel-hoe without excess weight on a digging crawler. Shovel boom is all-welded, with cable crowd, power dipper trip. Welded gooseneck tapered hoe boom. Power plant, clutch and hoist shafts contribute to counterweight effect. And the price is right.



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Hoist drums have anti-friction bearings for faster casting. Long life swing clutches speed action. Revolving fairlead has anti-friction bearings. Special gearing for more efficient dragline work. Special dragline boom available for greater operating ranges. And the price is right.



18-TON CRANE PACKAGE

Lorain's exclusive Square-Tubular-Chord Boom is lighter, stronger, permits greater payloads. Big crawler, simultaneous hoist, swing and travel available. Hydra-Ease crawler controls. All control linkage mounted on anti-friction bearings. And the price is right.

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WORTHAM MACHINERY COMPANY
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Rock Springs, Wyo.

YUKON EQUIPMENT INCORPORATED
(for Alaska)
Seattle, Wash.
Fairbanks, Anchorage and
Ketchikan, Alaska

and surfacing on S. H. 95 in Denver and Jefferson counties. A \$344,468 contract was received by **Theo. Wood Construction Co.** of Salt Lake City, Utah, for construction of a tunnel on the southside, Collbran Project. **H. E. Lowdermilk Co.** of Englewood submitted two low bids for roadwork in Jefferson and Latimer counties: \$158,996 for 1.2 mi. of grading and surfacing in town of Estes Park, Latimer County, and \$345,105 for 2.5 mi. of grading, structures and surfacing between Evergreen and Kittredge in Jefferson County. **Northwestern Engineering Co.**, Denver, submitted a low bid of \$294,000 for construction of access road, Lowry Range, Lowry Air Force Base, Denver. A low bid of \$183,550 was submitted by **Blanchard Construction Co.**, Derby, for 7.6 mi. of grading and surfacing on S. H. 10 in Huerfano County. **E. J. Rippey & Sons**, New Castle, submitted a low bid of \$157,945 for 2.7 mi. of grading, surfacing and structures north of Ophir on S. H. 145 in San Miguel County. **Pioneer Construction Co.** of Pueblo submitted four low bids on highway work in various counties: \$334,287 for 15.2 mi. of structures and surfacing between Walsenburg and La Junta in Pueblo and Otero counties; \$279,133 for 8 mi. of grading, structures and surfacing between Kim and Tobe in Las Animas County; \$257,336 for 6 mi. of grading, structures and surfacing on S. H. 368 from Carmel School-northwest in Rio Grande, Conejos and Alamosa counties, and \$234,775 for 4.4 mi. of grading, structures and surfacing between Pueblo and Beulah in Pueblo County.

IDAHO

A \$832,659 contract was received by **Marion J. Hess** of Malad for 6.2 mi. of grading, surfacing and structure on State Highway 44 in Ada County. **Max J. Kuney** of Spokane, Wash. received a \$518,396 contract for 9.4 mi. of grading, structure, and surfacing the Ahsahka-Kendrick highway in Clearwater and Nez Perce counties. **L. W. Vail**, Pasco, Wash. received a \$269,952 contract for 11.9 mi. of grading and surfacing on U. S. 95 Kootenai-Bonner County Line, in Bonner County. A \$268,451 contract was received by **Grant Construction Co.**, Coeur d'Alene, for 8.1 mi. of grading and

surfacing on State Highway 53 in Kootenai County. **Idaho Rock** of Twin Falls received a \$274,824 contract for reconditioning and constructing on 19.1 mi. of U. S. Highway 93, Challis north and south in Custer County. **Forest D. Pumnea** of Coeur d'Alene received a \$134,319 contract for 3.4 mi. of grading and surfacing on the O'Gara road in Kootenai County. A \$102,170 contract was received by **Karl Woodall** of Boise for 5.1 mi. of surfacing and structure on the Pasadena Valley road in Elmore County.

MONTANA

Peter Kiewit Sons' Co., Billings, received a \$554,931 contract for construction of steel and concrete bridge on the Idaho Line-Plains road in Sanders County. A \$447,646 contract was received by **Summit Construction Co.**, Rapid City, S.D., for 12.9 mi. of grading and surfacing on the Grass Range—Malta highway in Fergus County. **Kiely Construction Co.**, Butte, received a \$432,660 contract for 2.2 mi. of grading and surfacing on the Phillipsburg—Anaconda road in Deer Lodge County. **Dillsworth Construction Co.**, Helena, received a \$339,750 contract for 3.3 mi. of grading and surfacing on the Red Lodge west road in Carbon County. **Walling Construction Co.**, Lewistown, received a \$304,367 contract for 11.4 mi. of grading, surfacing and draining on the Lodge Grass—St. Xavier highway in Big Horn County. A \$287,646 contract was received by **Zook Bros. Construction Co.**, Bigfork, for grading and surfacing on 12.1 mi. east of Blackfoot in Glacier County. **Max J. Kuney** of Spokane, Wash. received a \$283,685 contract for 5.8 mi. of grading and surfacing on the Noxon-Troy road in Lincoln County. **Holland Construction Co.** of Bozeman received a \$133,121 contract for 7 mi. of grading and surfacing on the Custer-Musselshell road in Musselshell County. **William W. Strever** of Billings received a \$128,731 contract for 14 crusher set-ups in Lake, Mineral, Missoula, Ravalli and Sanders counties. A \$127,385 contract was received by **Walter Makin & Son** of Billings for concrete overpass on the Gilford-Havre east highway in Hill County. **O'Neil Construction Co.**, Havre, received a \$117,690 contract for 3.9 mi. of

grading and surfacing in Glacier County.

NEVADA

Whiting Bros. Construction Co., Inc. and Industrial Construction Co. of Las Vegas, received a \$1,088,202 contract for construction of a portion of the State Highway, U. S. 91 northeast of Jean in Clark County. **Dodge Construction, Inc.** of Fallon received a \$493,155 contract for grading and surfacing and related work on FAS routes 808 and 694 northwest of Lovelock in Pershing County. A \$392,830 contract was received by **Wangsgaard-Peterson Construction Co.** of Logan, Utah, for 18.8 mi. of grading, surfacing and related work south of Lund in Nye County. **Whiting Bros.** of Las Vegas received two contracts for highway work in Humboldt County: a \$213,934 contract for 17.9 mi. of grading and surfacing on State Rte. 8B near Paradise Valley, and \$101,407 for 1.3 mi. of grading and surfacing in city of Winnemucca.

NEW MEXICO

Longenbaugh & Co., Inc. of Albuquerque received a \$1,856,490 contract for 1.9 mi. of grading, structures and surfacing from Tijeras Canyon to Juan Tabo in Bernalillo County. **Wayne A. Lowdermilk, Inc. and Gardner Construction Co.** of Espanola received a \$1,408,170 contract for 3.2 mi. of grading, structures and surfacing the Raton Bypass, South End Road in Colfax County. **Northwestern Engineering Co.** of Denver, Colo. received a \$741,000 contract for 13.3 mi. of grading and surfacing the Alamogordo-Cloudcroft route in Lincoln National Forest in Otero County. **Brown Construction Co.**, Albuquerque, received a \$616,997 contract for 6.1 mi. of grading and surfacing on the Ranchos De Taos-Pilar road in Taos County. A \$520,704 contract was received by **W. A. Hamilton Jr. Construction Co.** of Gallup for 5.7 mi. of grading, structures and surfacing on the Lumber-ton-Monero road in Rio Arriba County. **Gardner Construction Co.** of Glenwood Springs, Colo. received a \$383,483 contract for construction of the Pecos River bridge and approaches on U. S. 60 in De Baca County.

(Continued on page 82)

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My **WORK BULL FORK LIFT**

LETS ME POCKET DOLLARS SAVED ON HANDLING COSTS!

"Are on-the-job handling costs eating you up? They were sure chewing at me, until I bought my new Work Bull Fork Lift! Now, I pocketed money I used to spend for double handling 'spotting' goods I'm unloading right where they're going to be used!

"Even second floors, attics, roofs are within easy reach of Work Bull's 20' Mast Extension!

"I handle full skids, pallets, and cubes at tremendous savings in time and with only a fraction of the chipping and breakage that I had with manual handling!

"In addition, Work Bull's big wheels let me keep materials flowing in muddy, adverse weather that used to mean a shut down!"

Versatility for hundreds of job-site uses! Besides its standard 48" Tines, Work Bull Fork Lift has a 13 cubic foot Materials Bucket for loading sand, hoisting chat to roof tops... even pouring wet concrete.

Block Tines with Side Shift adjust to fit various cube combinations... save hours of backbreaking manual unloading. Work Bull also converts to an Angle Dozer for spreading stone,

filling around foundations, and maintaining accessways into the projects.

Other multi-use attachments include Bale Clamp, Load Clamp, and Log Hook for handling heavy, odd-shaped, or cumbersome items.

All attachments are interchangeable and require no additional hydraulics, because the rig comes equipped with three-spool valve as standard equipment. Centralized location of hydraulic quick-couplers speeds attachment changeovers.

Compact design for faster cycling makes full use of power steering and individual turning brakes. Over-riding foot throttle eliminates the necessity of manually altering engine speed while shifting gears or during load-lift operations.

Convenient controls, padded seat, wide-angle vision reduce driver fatigue for faster, more efficient production. Hydraulic safety mast tilts 20° forward and 10° back; so you can slide into loads, compensate for grades, and tilt for smooth unloading — all at the touch of a lever.

There's no doubt about it, a Work Bull Fork Lift is the finest rig you can own for handling materials... both, on and off hard surfaces!



Work Bull 1001



Work Bull 303 with 500 Loader and Dams Backhoe



Work Bull 202 with Dams Loader-Backhoe



Work Bull Fork Lift



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San Jose

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Haas & Associates Implement Co.
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IN WYOMING:

York's Shop
152 East Montana Ave.
Sheridan

IN ARIZONA:

Trimble Equipment Company
1419 So. Central Ave.
Phoenix

IN UTAH:

Lund Machinery Company
2350 South West Temple
Salt Lake City

Thompson Lumber & Hardware Co.
2380 South 1900 West
Ogden

IN IDAHO:

Starline Equipment Co.
503 South 16th St.

Box 1977
Boise

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Pocatello

IN COLORADO:

Modern Farm Service, Inc.
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McCrory Oil Company
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OREGON

Peter Kiewit Sons' Co., Vancouver, Wash. submitted a low bid of \$1,161,017 for grading and surfacing on the Pacific Highway in Multnomah County. **Roy L. Houck & Sons** and **Roy L. Houck Sons' Corp.** of Salem submitted a low bid of \$686,428 for grading and surfacing the Dalles-Eightmile Creek section on The Dalles-California highway in Wasco County. A low bid of \$606,722 was submitted by **Coos Bay Dredging Co.** of Coos Bay for grading, paving and structure on the Davis Slough section of the Oregon Coast Highway in Coos County. **Hamilton & Thoms, Inc.**, Eugene, received a \$560,873 contract for construction of 9 structures on the Pacific Highway in Linn County. **Earl L. McNutt Co.** of Eugene submitted two low bids for highway work in Jackson and Wheeler counties: \$564,500 for grading, structures and surfacing the Josephine County line-Evans Creek section of Pacific Highway in Jackson County, and \$521,804 for 7.9 mi. of grading and oiling on the Pioneer Creek-Service Creek section of John Day Highway, south of Fossil in Wheeler County. A low bid of \$224,994 was submitted by **K. C.**

Dack Construction Co., Pendleton, for 5.9 mi. of grading, structure and surfacing on the Birch Creek Bridge-Pearson Creek road section of E. Birch Creek road, south of Pilot Rock in Umatilla County. **Rogers Construction Inc.** of Portland submitted two low bids for highway work in Wasco and Umatilla counties: \$1,658,362 for grading, surfacing and structures on Deadmans Pass-Meacham section of the Old Oregon Trail in Umatilla County, and \$293,184 for grading and surfacing on the Rowena-Chenoweth Creek section of the Columbia River Highway in Wasco County. **Tom Lillebo Construction Co.**, Reedsport, submitted four low bids for work in Klamath, Douglas and Linn counties: \$334,099 for construction of three bridges on the Klamath Falls section of The Dalles-California highway; and \$199,720 for construction of one bridge on the California Ave. section of The Dalles-California highway, both in Klamath County; \$312,193 for construction of five drainage structures on relocated Pacific highway, south of Albany in Linn County; and \$152,613 for widening two bridges, on Pacific Highway in Douglas County. A low bid of \$289,493 was submitted by **Lord**

Bros., of Portland for construction of Porter St. undercrossing on Pacific Highway in Multnomah Co.

UTAH

A low bid of \$1,132,717 was submitted by **Morrison-Knudsen Co., Inc.** of Salt Lake City for 2.2 mi. of grading, surfacing and construction of two bridges south of Ash Creek in Washington County. **J. M. Sumsion & Sons Co.** of Springville submitted a low bid of \$234,230 for 8.2 mi. of grading and surfacing and construction of one bridge on Highway 128 in Grand County. **Nelson Bros. Construction Co.** of Salt Lake City submitted a low bid of \$151,471 for grading and surfacing on State Road 47.

WASHINGTON

A low bid of \$1,215,273 was submitted by **Cherf Brothers, Inc.** and **Sandkay Contractors, Inc.** and **Pfeiffer & Pontius**, of Ephrata for earthwork and structures, laterals, waste-ways and drains, Royal Branch Canal Laterals, Columbia Basin Project. **Peter Kiewit Sons' Co.**, Vancouver received a \$704,771 contract for 6.5 mi. of grading and paving from Sunset Lodge vicinity and top

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Complete detonation . . . no exploded caps or powder. Cannot be set off by friction, sparks, ordinary shock; even a direct hit by lightning did not detonate Primacord.

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Contacts every cartridge, even in deck loads. Initiates entire charge almost simultaneously. Can be hooked up to fire front line first, giving relief of burden and better fragmentation.

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Lowest overall cost because you get full efficiency from the explosive—no waste; and better fragmentation with less powder. Only one cap required—no cap in the hole.

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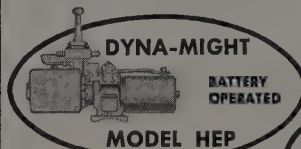
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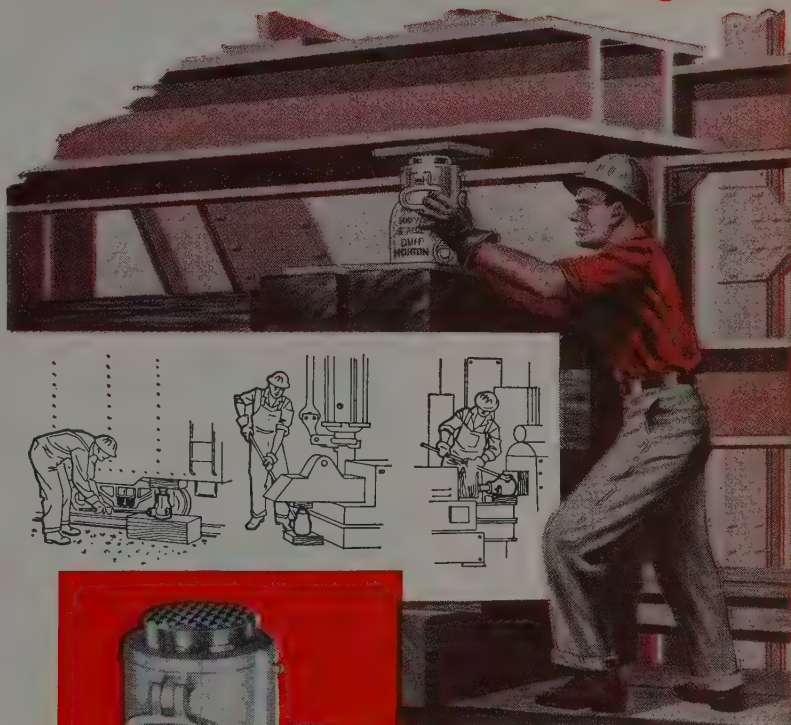
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See manufacturer's detailed listing in Yellow Section
WESTERN CONSTRUCTION—January 1959

of Easton Hill to Easton, east of Snoqualmie Pass in Kittitas County. Alton V. Phillips Co., Seattle, received a \$550,711 contract for construction of Alaskan Way Viaduct and Spokane St. ramps, King County. Quigg Bros.-McDonald Inc. of Hoquiam received a \$431,228 contract for construction of two traffic separation bridges on Highway 1, City of Seattle, King County. J. Arlie Bryant, Inc. and Clarence Braden of Spokane received a \$263,283 contract for 4.2 mi. of grading, structures and surfacing Airport Road to Smith Creek in Pacific County. A \$256,44 contract was received by Neukirch Bros. of Seattle for construction of the Sauk River Bridge, Skagit County Road, in Skagit County. Allen R. Anderson of Seattle received a \$164,406 contract for construction of undercrossing, Bellevue, King County. Beuter & O'Neil and C. W. Thomas & Son, Chehalis, received a \$509,953 contract for 2 mi. of grading, structures and paving on Highways 1 and 5-K in Lewis County. Lewis Hopkins of Pasco submitted a low bid of \$1,628,232 for rehabilitation and improvement to Wherry Housing at the Larson Air Force Base. Shaw & Estes of Dallas, Tex. submitted a low bid of \$1,587,000 for Phase III, Test Reactor, Richland.

WYOMING

Big Horn Construction Co. of Sheridan received a \$1,025,253 contract for grading, surfacing and related work on 4.8 mi. of 4-lane interstate highway on the Laramie-Cheyenne road in Laramie County. Garton & Garton of Cheyenne received a \$764,692 contract for construction of bridges and related work on 6.3 mi. of 4-lane divided highway on the Moorcroft-Sundance road in Crook County. A \$407,610 contract was received by Carlson-Lien Co. of Rapid City, S. D. for shoulder seal, aggregate and miscellaneous work on 17.2 mi. of the Gillette-Moorcroft road in Campbell County. Wilson Brothers of Cheyenne received a \$298,870 contract for 3.2 mi. of grading, draining and surfacing on the Laramie-Cheyenne road in Laramie County. A \$177,943 contract was received by Huntley Construction Co., Rock Springs, for 3.3 mi. of grading and surfacing on the Mountainview-Lone Tree road in Uinta County. Charles M. Smith, General Contractor, Thermopolis, received a \$152,004 contract for grading, surfacing and structure on 1.3 mi. of the Lucerne-Black Mountain road in Hot Springs County.

200,000 Pounds Of Lifting Power In a 98 Pound Package



The 100 ton capacity Duff-Norton Aluminum Screw Jack weighs only 98 pounds. It is easier to handle and spot than any other type of jack of the same capacity which may weigh two to five times more.

Maintenance is virtually eliminated by the rugged construction—aluminum alloy housing and base—heat-treated steel

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The design of these jacks makes it impossible for them to creep—will support load indefinitely. They can be used in any position—have no fluid to leak—no air to lock. Duff-Norton Screw Jacks are ideal for heavy riggers or for construction and maintenance crews in shipyards, steel mills and other industries.

Duff-Norton Screw Jacks are available in 25, 35, 50 and 100 ton capacities in aluminum—in 15, 25, 35 and 50 ton capacities in malleable iron. For full details on these durable, all-purpose lifting jacks ask your distributor or write for Bulletin AD-12a.

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ENGINEERS and CONTRACTORS

Robert A. Williamson has been promoted to chief structural engineer, and Harold Soliday to chief electrical engineer by Holmes & Narver, Inc., engineers and constructors of Los Angeles. Both positions are new and follow a recent reorganization which placed operations on a division basis.

* * *

Donald F. Floyd of Boise, Idaho, has been appointed to the position of city engineer of Idaho Falls, following the resignation of Claud R. Black. Black held the post for thirty years, and will be retained as consulting engineer.

* * *

Edward G. Herb has been appointed administrative vice president of International Engineering Co., Inc., a subsidiary of Morrison-Knudsen Co., Inc. Herb joined M-K's New York International Office in 1955 where he has been until his recent appointment to the San Francisco post.

Walter E. Jessup recently retired as editor of *Civil Engineering*, official publication of the American Society of Civil Engineers. He is returning to California to resume the practice of civil engineering which he interrupted when he joined ASCE's staff in 1930. Hal W. Hunt succeeds Jessup as editor of the magazine.

* * *

A. Warren Simonds, head of the Foundations and Structural Behavior Section in the Bureau of Reclamation engineering offices at Denver, retired with more than 31 years of service with the Bureau. As an authority on grouting techniques, Simonds has participated in the design of numerous dams throughout the West. Techniques he developed in structural model construction are being applied to model tests of Glen Canyon Dam now under construction.

George T. McCoy, California State Highway Engineer, was recently honored by the American Association of State Highway Officials for outstanding contributions to highway progress. The "Thomas H. MacDonald Award," named for the late Chief of the Bureau of Public Roads, was presented to McCoy at AASHO's annual convention by DeWitt Greer, former president of AASHO and state highway engineer of Texas.

CALENDAR

Jan. 14-15—The Beavers, fourth annual awards dinner, Los Angeles, Calif.

Jan. 19-22—American Road Builders' Association, annual convention, Dallas, Tex.

Jan. 19-23—The Associated General Contractors of America, Inc., annual convention, American Hotel, Bal Harbour, Miami Beach, Fla.

Jan. 25-29—Associated Equipment Distributors, annual meeting, Conrad Hilton Hotel, Chicago, Ill.

Jan. 29-31—The Institute of Transportation and Traffic Engineering, annual California Street and Highway Conference, Berkeley campus of the University of California.

Feb. 5-7—National Western Mining Congress and Centennial Mining Celebration, Denver, Colo.

Feb. 8-13—American Society of Civil Engineers, annual convention, Los Angeles, Calif.

Feb. 23-26—American Concrete Institute, annual convention, Statler Hilton Hotel, Los Angeles, Calif.

Mar. 3-4—Annual Highway Conference, University of Utah, Salt Lake City, Utah.

Mar. 5-6—Annual Highway Engineering Conference, University of Colorado, Boulder, Colo.

Mar. 23-25—Annual Western Safety Congress and Exhibits, Ambassador Hotel, Los Angeles, Calif.



John M. McNerney



Warren G. Burres

John M. McNerney has been named manager of the Portland Cement Association's Western Region, succeeding Hugh D. Barnes who assumed the position of supervisor of field promotion at PCA general office headquarters in Chicago. McNerney has served as district engi-

neer of the Los Angeles District for the past two years. Warren G. Burres, who has served as the Association's personnel training manager since January 1957, succeeds McNerney as district engineer. Walter E. Kunze, Jr. has been promoted to Burres' former post.

230 horsepower — more power per truck yard than any other unit near its size.

30,000 pounds of rim pull in low gear — an even bigger edge over other makes than before.

17 yards heaped capacity with low, wide bowl design and forced ejection, of course. You're sure of big loads . . . quick, clean dumping every time.

NEW KON-100K torque proportioning differential — automatically concentrates power on wheel with best traction . . . mud, sand or gumbo.

180-degree turns in less than 30 feet to help you save cycle time in tight spots on narrow cuts or fills.

Five speeds to 28 mph . . . with constant mesh transmission and new air-actuated transmission brake for faster, easier shifting. The new TS-260 is easy to handle from cut to fill.

Opportunity for added profit . . . Interchangeable with the TS-260 scraper, the TR-260 rock wagon gives you a source of extra income on overhead loading jobs at a fraction of the cost of another special unit.



**TS-260
MOTOR SCRAPER**

230 horsepower
17 yards heaped

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ARIZONA

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NORTHERN CALIFORNIA

Industrial Tractor Sales—North Sacramento
Shasta Truck & Equipment Sales—Redding
West Coast Engine & Equipment Company—Berkeley,
Branch: San Jose
Trinity Tractor Company—Eureka

SOUTHERN CALIFORNIA

Construction Machinery Co.—San Diego
San Joaquin Tractor Co.—Bakersfield
Shaw Sales & Service Co.—Los Angeles

IDAHO

Southern Idaho Equipment Co.—Idaho Falls and Twin Falls
Southern Idaho Equipment Co. of Boise, Inc.—Boise

MONTANA

Mountain Tractor Company—Missoula and Kalispell
Seitz Machinery Company, Inc.—Billings and Great Falls

NEVADA

A D Machinery Company, Inc.—Elko and Las Vegas
Reno Equipment Sales Co.—Reno

OREGON

Haupt Tractor Company—Medford
Wood Tractor Company—Portland
Timber Tractor Company—Springfield

UTAH

Cate Equipment Company, Inc.—Salt Lake City

WASHINGTON

Pacific Hoist & Derrick Company—Seattle & Puyallup
American Machine Company—Spokane

WYOMING

Studer Tractor & Equipment Company—Casper

... for more details, circle No. 50 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

SUPERVISING the jobs



KEY MEN on construction of Big Canyon Reservoir for the city of Newport Beach, Calif., are (front l. to r.) **Les Curtis**, pipeline foreman; **Joe Aguilar**, dirt superintendent; **Fred L. Johnson**, soil engineer; (rear l. to r.) **Lee Range**, surveying chief; **A. B. McLean**, mechanical superintendent; **Smith L. Grant**, field engineer; **W. D. Mathis**, resident engineer; **J. H. Cacan**, job superintendent. This 195,000,000-gal. storage reservoir project is being constructed by M. R. Fisher, Inc. at a total of \$1,262,295 for the reservoir and transmission pipelines. Excavation is subcontracted to J. E. Riley & Son, Inc. Paving subcontract is held by R. J. Noble Co., and mechanical work is being done by Bovee & Crail Construction Co.



J. A. "JIM" SHELDON (right) is project manager, and **Al Pearce** is superintendent for \$1,200,000 of high Sierra highway relocation in upper Yosemite National Park in California. Harms Bros. crews are in their second season at the 8,140-ft. Lake Tenaya job site on the project, and will require a third for completion. This and adjoining work will eliminate the last 21 mi. of the old Tioga Pass mine road built in 1883.

Melvin A. Johnson and **W. Jay Grant**, owners of Grant Construction Co., act as their own superintendents on all work awarded to the company. On a \$472,885 recent award for grading and surfacing 5.3 mi. of State Highway 11 in Adams County, Wash., **Norman F. Meyers** acted as grading superintendent, and **Pearl Crable** as crushing superintendent.

* * *

R. H. Heitman is project manager for the joint venture of John Delphia and Fred J. Early, Jr., Co., Inc., successful bidder on job of constructing two bridges, a pumping plant, grading and surfacing 5.8 mi. of 4-lane divided highway north of Soledad, Calif. Other key men on this project, which is expected to run until October next year, are **Earl Barnard**, grading superintendent, **F. H. Brown**, paving superintendent, **Roy Lyman**, structure foreman, **James Briggs** and **Dave Soden**, grading foremen. Engineer is **C. W. LeCount**.

* * *

C. H. Murphree, area manager, **Elof Gustafson**, project manager, and **Paul Gatchet**, carpenter superintendent, are head men on construction of 8-story State Office Building in Oakland, Calif. Work on the \$2,347,828 structure started in September. The building is expected to be ready for occupancy early in 1960.

* * *

Afton Bohn, superintendent for Gibbons & Reed Co., is in charge of a \$1,194,875 award covering 4.9 mi. of grading and surfacing on U. S. 50 in White Pine County, Nev. **Louis Nielson** is master mechanic. Under way since September, the work will probably be finished by July.

* * *

James Harris, general superintendent, and **Ed G. Matz**, superintendent, are key men for L. M. White Construction Co., successful bidder on 7.9 mi. of grading and surfacing in Graham County, Ariz. Equipment foreman on the \$576,820 project is **George Swanson**. Scheduled for completion in March, the job got under way in September.

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"Ford's 332-cu. in. V-8 is the hottest thing on the road for its size!"

"Our fourteen Ford trucks all have exceptional durability records. Several '55 T-800 dumps, grossing 48,000 lb., have over 200,000 miles on 'em. They went an average of 150,000 miles before we touched the engine. And for power and performance, too, the Ford 332 engine is the hottest thing on the road for its size.

"Ford's better visibility, handling ease and power steering are big factors in our excellent highway safety record. We've had many million-mile accident-free years with our Ford fleet.

"In addition to our sand and gravel business, we have ten Ford F- and C-800 tractors that make long, over-the-road trips hauling limestone one way and steel on the way back.

"On these trips parts availability is very important. Ford Dealers are about everywhere, and they all stock parts. We never get delayed waiting for Ford parts."

GO FORD-WARD for savings with '59 Ford Trucks!

Whatever your job . . . wherever you do it—you'll find Ford Heavies and Extra Heavies are engineered and built to do it better! And the '59 improvements in these models will bring still more benefits to your operation.

Greater operating economy with new, faster rear axle ratios and wider choice of transmissions.

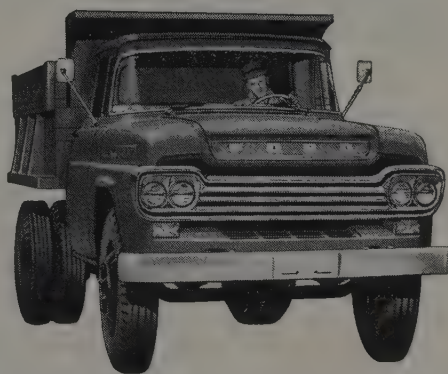
Higher payloads and longer axle life with new, higher-capacity front and rear axle options for most models.

Factory installed tractor package custom-fitted to Ford trucks for safer, more dependable braking.

More efficient parking brake of the internal expanding type has approximately 50% greater stopping and holding ability, requires less than half the operating effort needed for the previously used type.

Yes, the new '59 Ford trucks are here to take you *Ford-ward* for savings, *Ford-ward* for modern style and stamina.

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NEW '59 FORD F-600 DUMP carries a maximum GVW rating of 19,500 lb. Now available with optional 6000-lb. front axle for greater capacity, longer life.

FORD TRUCKS COST LESS

LESS TO OWN...LESS TO RUN...LAST LONGER, TOO!

Albert DeAtley, partner and general superintendent for F. H. DeAtley & Co., is in charge of a \$171,609 award for work in Grant County Wash., on which Robert Summers is project superintendent, and Hershel Ferguson, plant operator. Contract covers grading and improving 18 mi. of county road.

* * *

Rex T. Mackay, general superintendent for W. W. & W. B. Gardner, Inc., heads the construction crew working on 3.9 mi. of grading and surfacing on Highway 106,

Davis County, Utah. Other key men on the \$133,367 job are Vern G. Mauchley, paving foreman, and Joseph M. Jackson, plant super.

* * *

Al Regalia, project manager, and Al Vercruyssen, general superintendent, have been named to handle the \$837,933 recent award to Baldwin Contracting Co. covering 5.7 mi. of grading and surfacing between Sacramento River bridge and Mokelumne River bridge in Sacramento County, Calif. Work is expected to finish next June.

Milton Gracia is acting as project engineer for Madonna Construction Co. on two recent awards to the company. One is for grading and surfacing 5.7 mi. and construction of one bridge, a \$1,085,577 undertaking. Superintending the job is Tony Bettencourt, while Cher Bowlin is concrete superintendent. Robert Pate, head field mechanic, Dan Borradori, master mechanic, and Otha Luster, plant maintenance superintendent. The other is a \$186,312 grading and paving job superintended by E. B. Harris. Here Bowlin is structural superintendent, and Borradori the master mechanic. Both projects are in San Luis Obispo County, Calif.

A third road contract in San Luis Obispo County also went to Madonna. This consists of 8.7 mi. of grading, surfacing and one bridge, on which Robert Osborne is project engineer, and Leonard Koll is bridge superintendent, and again Borradori is master mechanic. In Tulare County, Calif., Madonna is reconstructing and widening the county road west of Porterville at a cost of \$328,529. This job is being supervised by Orval Beeman, with Luster as plant foreman, and Pate the master mechanic.

* * *

William C. Eckhardt, grading superintendent, and G. G. Christian, gravel superintendent, are key men working for G. E. Marshall, contractor on 6.3 mi. of grading and surfacing the Philipsburg-west highway in Granite County, Mont. E. R. Christian is foreman, and Vern Carlson, mechanic on the \$264,790 job.

* * *

Larry Mahan is supervising a \$415,834 job for S. Birch, Inc., and S. Birch & Sons Co. covering grading and surfacing on the Shelby-Chester highway in Montana. Assisting as foremen are Bill Ille, Larry Heilman, and Paul Larson. Work started in September, with completion set for July.

* * *

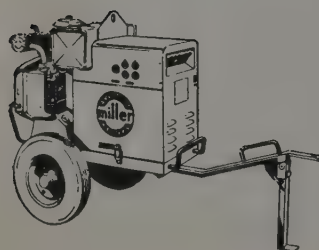
Joe Huston, grading superintendent, and Henry M. Kaiser, gravel and asphalt superintendent, are key men for Summit Construction Co. which has a \$589,699 contract in Wyoming for grading, surfacing and structures on Newcastle-South Dakota state line road. Job started in mid-August and will probably be finished the middle of July.

THE ENGINE- DRIVEN WELDER/ POWER PLANT with the



100% DUTY CYCLE

An original Miller design with performance standards, ruggedness and versatility that have made it a top hand from the Texas oil fields to New York dairy farms. Because, whether the AEA-200-L is hub deep in mud welding a derrick brace, or supplying power for lights and milking machines, or answering an emergency call aboard a repair ship. . . IT DELIVERS. Currently a best seller in the highway construction market, the Miller AEA-200-L is handily the "finest in the field," and here's why:



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- 5 KW, 110/220v ac
- 1 KW, 115v auxiliary dc
- Uses any ac or ac-dc 1/16" to 3/16" electrodes
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Other Miller welder/power plants for metallic arc and TIG welding to 350 amperes.

Complete particulars will be sent promptly.

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Hagel and Antoine Cut-gravel and paving superintendents respectively, have been in charge of a \$166,873 job of Dean Road, contractor, for 9.1 mi. grading and surfacing in Powder County, Mont. John Snyder is foreman.

Stultz is project manager for Western Paving Construction Co. Successful bidder at \$680,630 for grading and concrete paving and miscellaneous work on the 11th-F. E. Warren AFB road in Fremont County, Wyo. Nielson is concrete superintendent on the project, which is expected for completion in June.

Glas Nelson, superintendent, by Edward Buttke, foreman, in charge of construction of four miles and four concrete underpasses on the Bearmouth-Deer highway in Montana for Johnson & Pederson, Inc., are doing the work at a cost of \$1,727. Under construction since October, the job is expected complete September 1959.

Neil Jones, project manager, Lowry, superintendent, Eldon Meyer, foreman, and LeRoy Meyer, truck foreman, comprised the Lalonde Co.'s supervisory staff on job of reshaping and surfacing 13 mi. of highway in Rosebud County, Mont., a \$196,779 contract.

Matus, job superintendent for Becker & Scott & Harrison, is in charge of 2.9 mi. of widening and realigning road in Santa Barbara County, Calif. Other key men on the \$839,020 project are Robert Thal, dirt foreman, and John Thal, job accountant. Scheduled for completion next June, the work is under way in October.

Thomas S. Miller is project superintendent on 6 mi. of grading and surfacing on Pacific Highway in Eugene, Ore., a \$1,126,788 contract being executed by Nattugall Co. Assisting in the work are J. M. Kerr and N. H. Olson, foremen. Job will probably run till November.

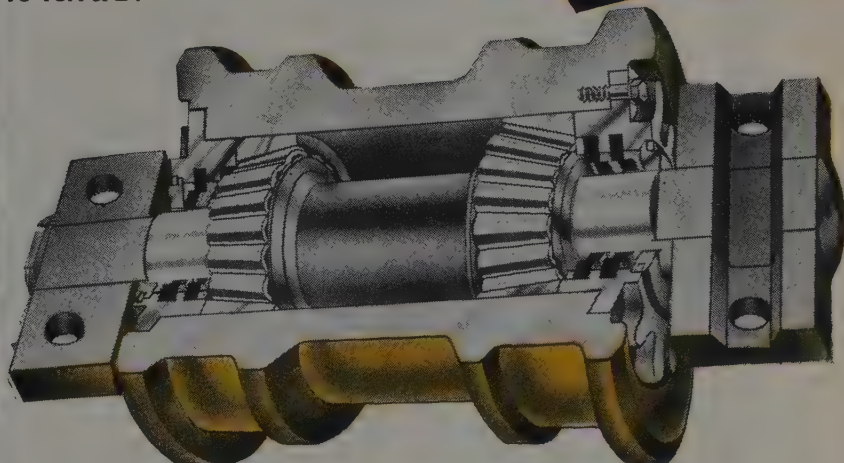
rc Latham, superintendent, Raun, engineer, Vic Franks, foreman, and Ed Lohr, purchasing agent, comprise the head

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personnel employed by W. F. Maxwell on bridge construction, grading and surfacing approaches south of Alamitos Bay bridge in Los Angeles County, Calif. The \$297,287 contract is expected to be complete the end of June.

* * *

Al Osborn, general superintendent, W. P. Hanna, project superintendent, with M. P. Blue and Nick Pulcich, foremen, are head men on a \$157,073 grading and surfacing job in King County, Wash., for Northwest Asphalt Co. and Rainier Asphalt Paving Co.

* * *

C. W. Hedstrom, Roscoe W. Phillips, and Clarence F. Hjout have been named resident engineer, project manager, and assistant superintendent, respectively, by Erickson, Phillips & Weisberg to handle a recent award in San Joaquin County, Calif. The \$588,847 job is for bridge construction across canals on the Tracy road, and is expected to be finished about September.

* * *

Steve Smith is supervising Fife Construction Co.'s \$366,269 contract for 4.7 mi. of grading and surfacing Cat Canyon-Sunnyside junction road in Utah. Other important men on this project are Joe Fansworth, grade foreman, Deloy Johnson, structure foreman, Robert E. Lee, blasting, and Mel Hayes, mechanic. Work started in September and will run until next July.

* * *

L. Wayne Redd, superintendent, with the assistance of Max Reeves, foreman, is in charge of a \$446,072 contract of Nelson Bros. Construction Co. covering earthwork, eight reservoirs and inlet and outlet structures in the Davis Aqueduct lateral system, Weber Basin Project, Utah. Job has been under way since October and Nelson expects to finish the job by next November.

* * *

Roy Rippe, Don Teeters, Mahlen Coulter and Joe George are all superintendents for Asbell Bros. Construction Co., working in Sheridan, Wyo. Asbell started on a grading and surfacing job there in September consisting of grading and surfacing on 3.1 mi. of the Sheridan-Ranchester road, an \$881,930 award. Work is expected to be finished in September.

James Eagen is superintending a \$730,033 job recently awarded to Robertson & Cave, Inc., covering 17.7 mi. of grade, drain, surface, and bituminous surface treatment on the Wolf Creek-Augusta road in Montana. Engineer is Gordon E. Blossom. Dave Blackmore is handling the bookkeeping for this highway job which will probably run till September.

* * *

C. G. Tomlinson, superintendent, Jack Groom, foreman, and Jack Snider, equipment foreman, comprise the top supervisors on completion of work on the Spokane Bench laterals, Helena Valley Unit, Montana. Part of the Missouri River Basin Project, the \$192,764 contract was awarded to Contractors & Excavators, Inc., and Zuber Brothers, who started on the job in September and look for completion about next September.

* * *

Raymond Burns, superintendent, for Gardner Construction Co., is supervising the \$510,139 railroad overpass contract which this firm has at Pueblo, Colo. Carpenter foreman is Alex Michael; steel foreman, George Monks, and time keeper, Hal Golden.

* * *

F. W. Wheelwright, general manager of Wheelwright Construction Co., is in charge of construction of reinforced concrete bridge over the Ogden River, near Ogden, Utah, together with approach roads. Frank Perla is Wheelwright's carpenter foreman. Constructed at a cost of \$203,427, the project was begun in October, with completion scheduled for June.

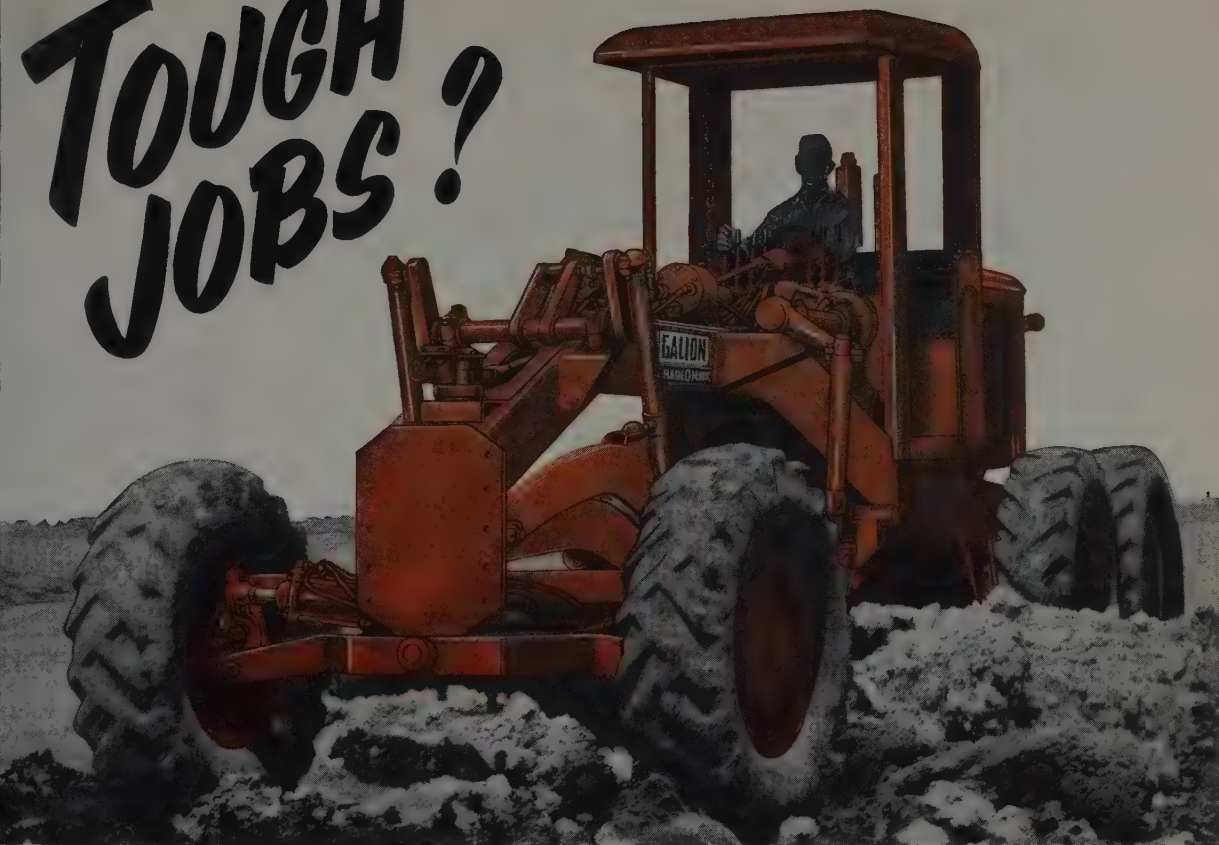
* * *

K. K. Rowe, project superintendent, with the help of Jim Brown, foreman, has been directing construction of two interchange structures on the Laramie-Cheyenne road in Wyoming. This is a \$114,613 contract of Riedesel-Lowe Co., contractors.

* * *

M. C. Beach is supervising grading, structures, and plant-mixed asphalt surfacing on a 6-mi. stretch between Boulder and Longmont on State Highway 119 in Colorado. Foremen are Louis Watkins and Gerold Rennels. Herron-Strong Co. received the contract on a low bid of \$528,535.

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- Automatic multiplication of torque.
- Automatic application of power.
- Automatic regulation of speed.
- Correct balance of weight and power.
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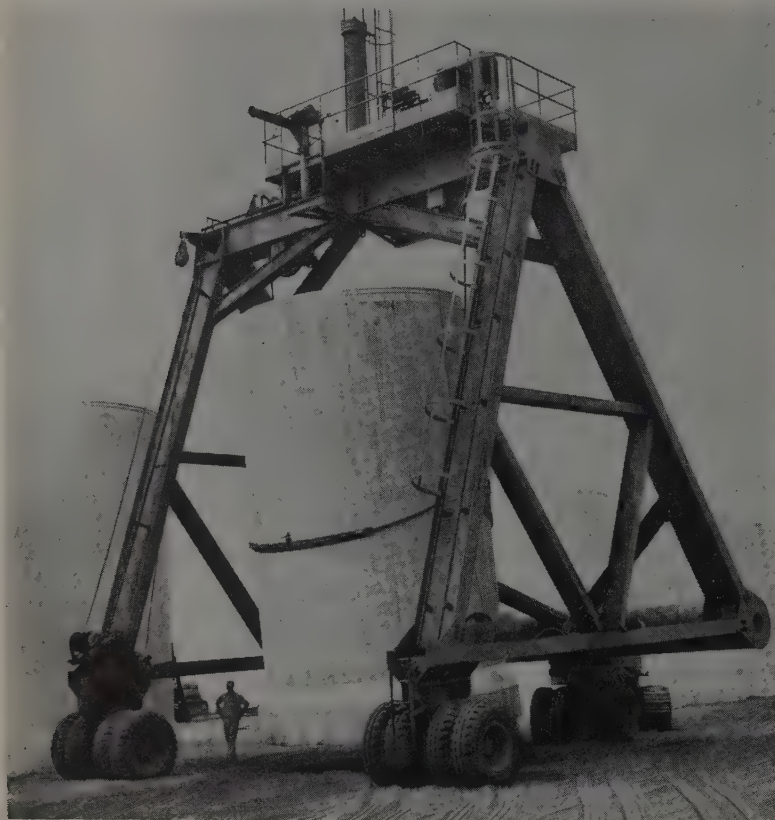
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CONSTRUCTION BRIEFS



Huge machine handles 90-ton pipe

ONE OF THE MOST grotesque vehicles ever made is in daily operation at Long Beach, Calif.

It is a 30-ton metal monster called a "Lifter-tipper" that picks up and gently moves lengths of concrete pipe weighing 90 tons each. Cushioning the mobile giant and supporting it on the powder-fine beach sand are twelve 14.00 x 24 tires made by B. F. Goodrich Tire Co.

When the equipment is operating, each tire supports a weight of 20,000 lb.

The tires are rib-design, size 14.00 x 24 with 20-ply rating. Under the maximum weight of the equipment and section of pipe (240,000 lb.), the tires deflect about 20%. The

wheel assemblies are double duals on three single axles located one forward and two at the rear.

The pipe handler was designed and built by United Concrete Pipe Corp. to handle 85-ton, 144-in. i.d., 24-ft. long pipe sections at its Long Beach Harbor, Calif., plant. The huge pipe will be laid on the ocean bottom as part of the new \$20,000,000 effluent outfall now under construction for the Los Angeles Hyperion Treatment Plant.

The handler is 50 ft. high, 32 ft. wide, 35 ft. long, and weighs 30 tons. The operator's platform is 35 ft. above the ground and holds the hydraulic hoist and Vickers hydraulic pump with a 75-hp. Ford engine as a power source. The

hoist has an 8-ft. stroke, 12-in. bore, and is designed for a maximum load of 150 tons. A 2-in. endless cable is used to lift the pipe and to support it during transportation. Five hydraulic winches control the lifting band as well as other control cables. The handler has 12 rubber-tired wheels with a maximum loading of 10,000 lb. each. Motive power is provided by a D-8 Caterpillar which has a 2-way telephonic connection with the operator's platform.

This combination lifts completed pipe from the base rings, transports it to the storage area, and from there to an ocean launching platform. Here, eight joints of pipe are combined into 192-ft. lengths to be towed, supported by a pontoon, to the point of laying at sea. Various controls on the pipe handler permit turning the pipe to a horizontal or vertical position as required.

United Concrete Pipe will handle approximately 24,000 ft. of 24-ft. length pipe in this manner at its Long Beach Harbor plant. Approximately 11,400 ft. of additional pipe is being manufactured at United's Baldwin Park plant and delivered by truck: 3,500 ft. of 144-in. i.d. pipe to the beach job site to be laid from a trestle and 7,900 ft. of 102-in. and 72-in. i.d. pipe to Long Beach to be towed to sea.

The Hyperion Treatment Plant effluent outfall is being constructed for the Los Angeles Board of Public Works by Hyperion Constructors, a joint venture of De Long Corp., Healy Tibbitts Construction Co., Peter Kiewit Sons' Co., Macco Corp., Raymond Concrete Pile Co., and Tavares Construction Co.

The Daniel V. McEachern Story

The College Press of College Place, Washington, has published *The Daniel V. McEachern Story* by E. C. Nance, which presents the life of the Chairman of the Board of the General Construction Co. of Seattle. The book deals primarily with the early life of Mr. McEachern, his family, their origins in Scotland, and a description of the Pacific Northwest in the beginning years of this century. The formation of the General Construction Company is explained and its development traced to the present day, with reference to the many large projects the firm has constructed. The author is retired president of the University of Tampa and a long-time friend of the McEacherns.

Other TL-20 and TL-16 features include:

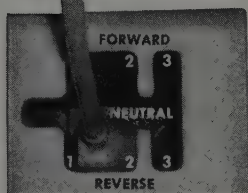
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BRAKES • "HI-TRACTION" DIFFERENTIALS • STRONG, PIN-
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• REAR-AXLE DISCONNECT • EXTRA STABILITY • "BUILT-
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TL-20 TRACTOLOADER® 2 cu yd • 104 diesel hp • Weight: 22,100 lb

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Loader Operation Simplified by
Tractomotive... Result: Increased Production



Here you see the only transmission shift lever that is necessary on the TL-20 and TL-16 TRACTOLOADERS.

With this single lever, your operator has full control of the full power-shift transmission. He can shift into and out of any gear "on the go"—forward or reverse. There is no speed range lever, or any other shift lever, to slow him up. And this single-lever control is **EXCLUSIVE WITH TRACTOMOTIVE**.

Because your operator's work is simplified... your production is sure to be higher. Let a demonstration convince you. See your Allis-Chalmers construction machinery dealer.

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New jumbo for small shafts

SINKING small rectangular shafts — previously considered feasible only with conventional hand-operated jackhammers — can be successfully drilled from a specially designed and equipped jumbo, on the basis of a mining company's recent record in the Utah uranium district.

Miners averaged 15.7 ft. of advance daily in a two-compartmented 14 x 7-ft. shaft, using a unique umbrella-type jumbo with

collapsible arms, on which were suspended four Atlas Copco rock drills with the essential and exclusive operating feature of retractable airlegs.

Similar equipment and operating methods are equally well suited to the sinking of limited-area access shafts on construction projects.

Idea for the first-of-its-kind jumbo is credited to mining official T. W. Newell, with design and production of the finished unit

handled by Atlas Copco Pacific sales engineers working with Machinery Center, Inc., of Salt Lake City.

In its collapsed form the jumbo is cable-lowered through a 48-in. opening to the shaft bottom. A chain hoist then is used to raise its two ribs, like the ribs of an umbrella, in turn bringing the drill-supporting sections into horizontal position and readying the suspended airleg drills for operation. Less than ten minutes is required to pass the jumbo from surface to 500-ft. depth and set it up for drilling.

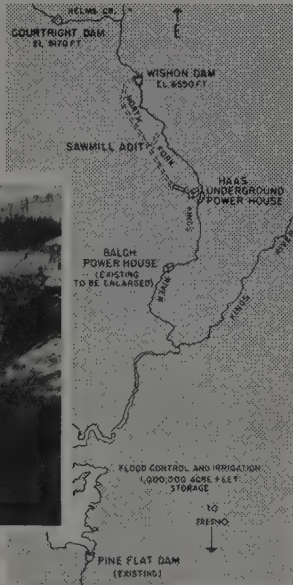
In the instance of the pioneering mine shaft, a three-man crew handles all underground work—including drilling, loading, mucking and timbering. Crew leader operates two of the Atlas Copco Model BBD-50 "Tiger" drills, with the other two miners handling one machine apiece. A 34-hole, 6-ft. end round is drilled in one hour with

ROCK FILL FOR KINGS RIVER DAMS

drilled out with Brunner & Lay carbide Rok-Bits



Courtright Dam: Brunner & Lay Rok-Bits used practically 100% in drilling out rock fill here, after some trial and error. Crawler type drills at Wishon Dam fitted with Brunner & Lay Rok-Bits also.



Kings River hydraulic system includes three dams and two generating stations. Connecting tunnels drilled out with Brunner & Lay 1½" Rok-Bits.

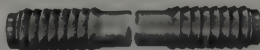


As the solid blue granite fractures easily on the "shot", small diameter hole centers were set at 7 x 8", bottoming at 2½". Brunner & Lay 600 "X" Rok-Bits used for this tough work.

Kings River contractors insist that blast hole drilling be continuously efficient—20 hours a day—and economical. Their use of Brunner & Lay carbide Rok-Bits is a good reason for you to check with Brunner & Lay on your drill bit and drill steel needs. Call your dealer, or our nearest plant. Brunner & Lay, Inc., 9300 King St., Franklin Park, Ill. 76 progressive years. Sales & Shop Service: Philadelphia, Asheville, Birmingham, Dallas, Albuquerque, Denver, Los Angeles, Sacramento, Portland, Seattle, Lachine, P.Q.



Request new bulletin DA 1-58 on your company letterhead, stating your position.



Sectional rods in ¾" and 1" hex alloy and 1½", 1¾" and 2" round carbon steel. Also standard alloy and carbon drill steel. All standard threads. Serviced at our many plants.

Brunner & Lay Rok-Bits in cross, chisel, "X", cutaway, taper-socket types. In standard wagon and hand held drill threads—also 1,000; 700; 600; 400; 200; 150; 125; 100 threads. Sizes up to 7".

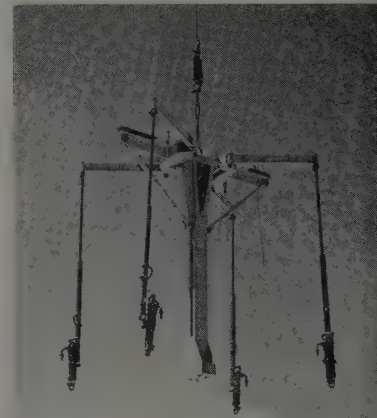


Contracting agent—Pacific Gas & Electric Co.; Contractors—Morrison—Walsh—Perini; Project manager—Bert Perkins.

Brunner & Lay Products

CARBIDE ROK-BITS • INTRASET STEEL • DRILL RODS • COUPLINGS, ADAPTERS & SECTIONAL STEEL

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See manufacturer's detailed listing in Yellow Section



1-in. Sandvik Coromant integral chisel-bit steels. This rapid cycle is made possible by the drills' key retractable leg feature, which exerts a 300-lb. pull in mechanically removing steel from the holes.

Racks attached to the jumbo's center post hold all steel needed for each round, and a sump pump also is mounted on the post.

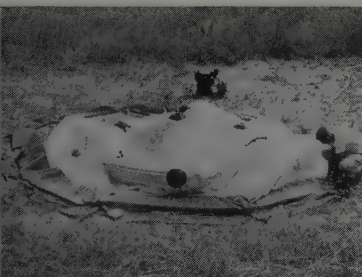
Completing the mining shaft's average underground cycle is one-half hour for loading the round, and one and a half hours for mucking. Timbering and other dead work is carried on simultaneously with the Cryderman mucking operation. In the first 25 days of jumbo use, miners advanced 392 ft. for the aforementioned 15.7-ft. daily average. Total shaft depth to reach the uranium ore body will be 830 ft.

... Circle No. 157

Blow up a house

A PORTABLE HOUSING unit with pneumatic "walls" which can be inflated in five minutes to form a rigid, self-supporting, load-bearing structure has been developed. The dome-shaped shelter, now being custom made for industrial and military use, is not "air-supported"—relying on air pressure within the unit itself—and doesn't require a constant supply of air from a blower.

It is supported solely by pneumatic panels of neoprene-coated nylon fabric, less than 3 in. in width. These are inflated simultaneously, but maintain pressure individually, so that once the unit is erected the



DEFLATED



INFLATED

air pump can be disconnected and the windows and door kept open or closed depending upon climatic conditions.

The unit, called the Geodome, is believed to be the first pneumatic application of the geodesic principle of equalizing stresses, patented by R. Buckminster Fuller. It is so light two men can lift it and yet is sturdy enough to withstand winds up to 120 mph. and snow loads up to 30 psf.

When deflated, it can be folded to fit into a jeep or small station wagon. It can also be towed by helicopter, either inflated or deflated, to normally inaccessible areas.

The manufacturer, the Berger Brothers Co., New Haven, Conn., designed the Geodome originally to fill a Department of Defense request for a shelter capable of pro-

viding comfortable living quarters under extreme climatic conditions, yet portable, easy to erect and durable.

Two models are currently in production. One has a 16½-ft. diameter, 8.3 ft. of center headroom and 218 sq. ft. of floor area. The second has a diameter of 48 ft., headroom of 24 ft. and floor area of 1,810 sq. ft. All the interior space is usable since there are no poles, ribs, or other supports.

These standard size units can be combined in multiples to provide

almost any desired floor space. Smaller units can be coupled to the larger unit or other small units for numerous applications—portable administrative headquarters, sleeping quarters, mess hall, field dispensary or storage shelter.

They can also serve as temporary exhibit halls or classrooms, as well as service facilities for engineering construction under adverse climatic conditions. Two 48-ft. units can be coupled and equipped with doors large enough to permit trucks or other large vehicles to enter.

... Circle No. 158



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**ONLY Ideal Tie Wire Reels
give you all these quality plus features**

Exclusive Design—versatile Right or Left hand use . . . no belt loops to move, no screws to lose.

New Improved Knob—re-winds un-used wire portion out of the way . . . in split seconds. Saves time, ends excessively clipped wire.

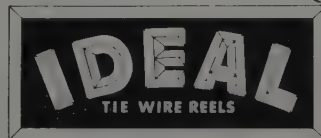
Easy-Opening Cover—speeds loading time . . . no nuts or bolts to loosen . . . ideally secured by left-hand threads.

Highest Quality Aluminum—plus brass and steel components cut friction, give extra-long wear, will not freeze.

Extra Wire Capacity—3½ to 4 pounds . . . twice as much as coil-over-shoulder method. Handles 14 through 20 gauge wire—coils available everywhere.

Materials and Workmanship Guaranteed—easy to replace interchangeable parts available if accidental damage occurs.

Ask your local dealer for full data and demonstration . . . or just mail coupon.



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Please send me facts on Ideal Tie Wire Reels, and address of nearest dealer.

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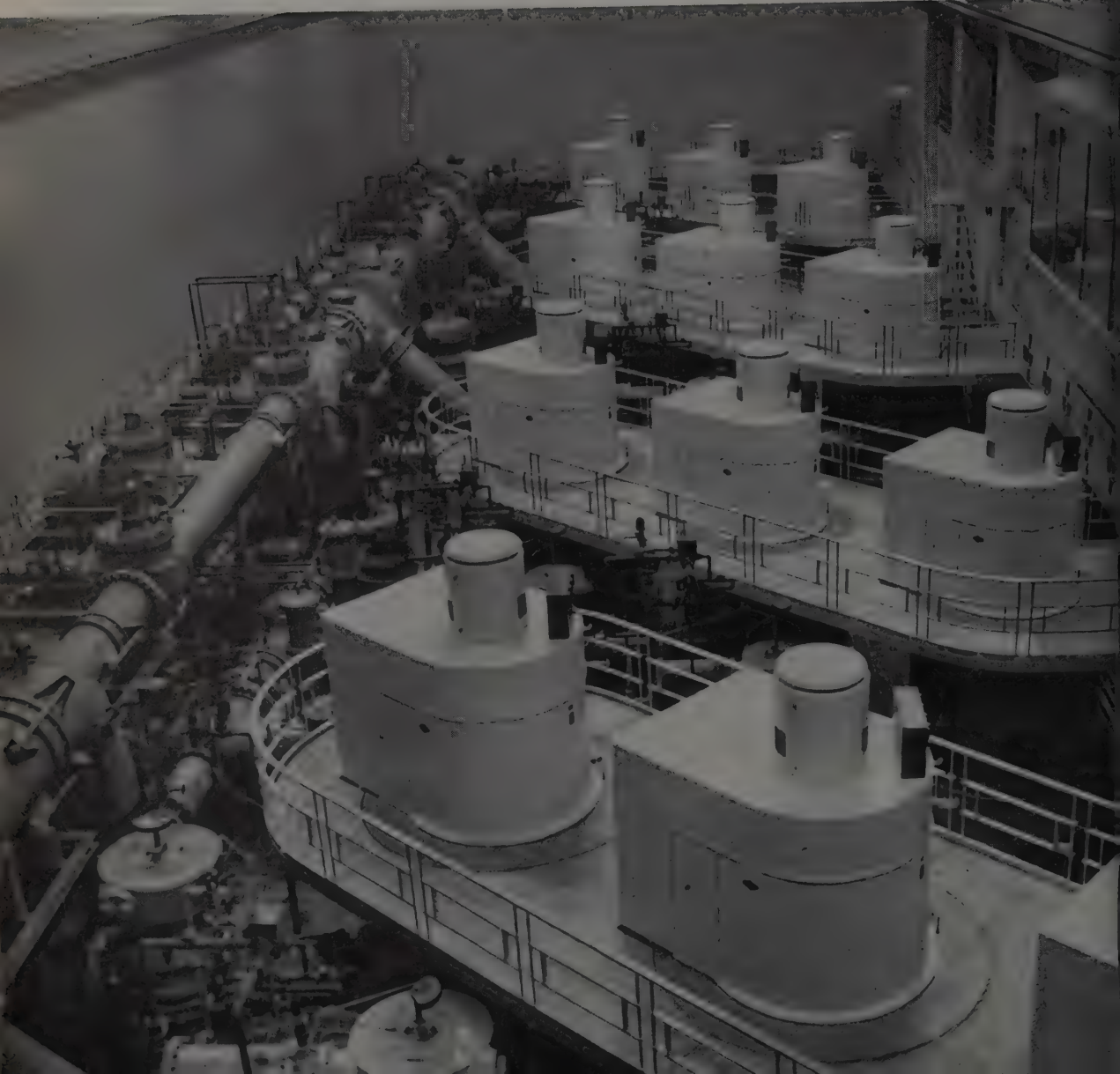
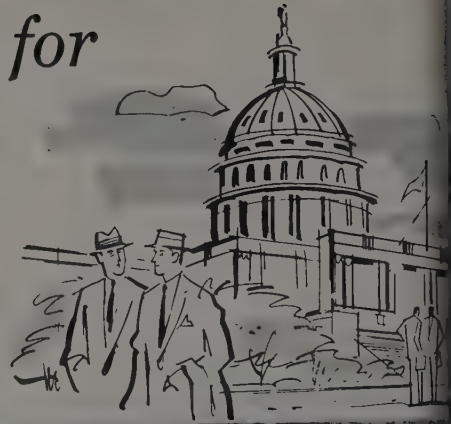
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IDEAL REEL COMPANY, PADUCAH, KENTUCKY

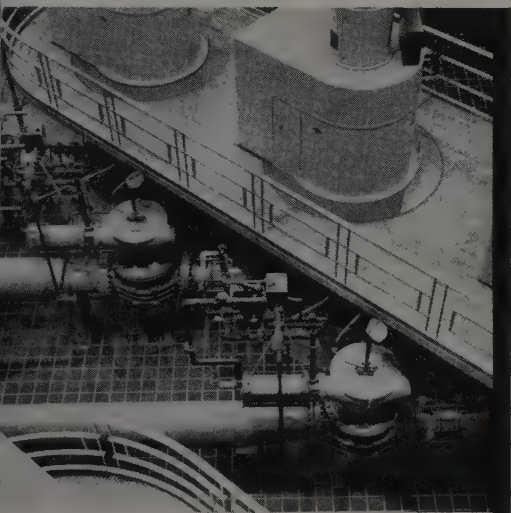
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See manufacturer's detailed listing in Yellow Section

CHAPMAN

*plays an important part for
an important service
to the Nation's Capital*

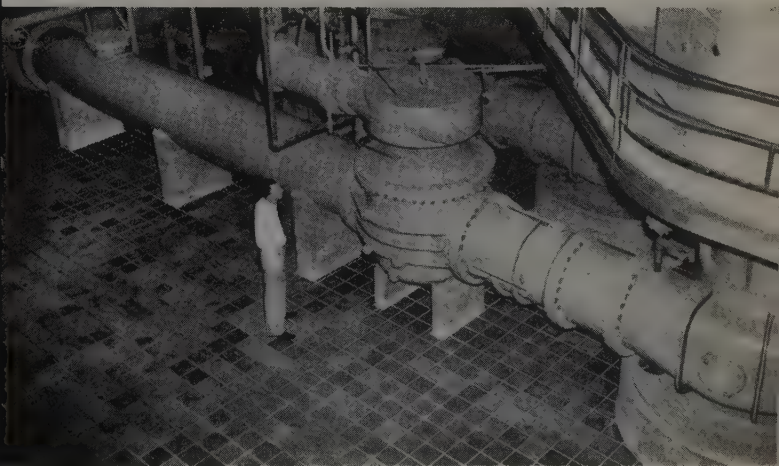


hington, D. C., Arlington County, Virginia and parts Fairfax County, Virginia have unique, efficient, and effective means of providing more effective water service for public health, convenience and fire protection. The Supply System was designed, built and is operated by the Corps of Engineers, United States Army. The Distribution System in the national capital is operated by the Commissioners, District of Columbia, Department of Sanitary Engineering. More than one million persons are being served and they are being served well... 157,000 gallons per day.



Interior views of the completely air-conditioned Dalecarlia Pumping Station showing some of the many Chapman Cone Type Valves used largely as a means of section from reversal on power failure of pumps and piping. The Dalecarlia Hydroelectric Station uses surplus water for generation of electrical energy, thereby reducing pumping power costs. The turbines may be converted to raw-water pumps, reversing the direction of water flow.

At Dalecarlia, Chapman 30-inch discharge cone valve, one of the countless Chapman Valves used throughout the system.



Big and modern as it is, the Water System of The District of Columbia is still expanding. They have already invested \$85,323,559 in this public service and more funds have been appropriated for extra facilities. These include construction of additional filters, a new chemical building, and an added two story flocculation-sedimentation basin.

The source of water for the entire system is the Potomac River. Water is pumped through miles of conduits to the McMillan, Georgetown and Dalecarlia reservoirs for storage and subsequent filtration and treatment. Pumping stations are operated at McMillan, Dalecarlia, Bryant Street, Reno and Anacosta. Filtration plants are at McMillan and Dalecarlia. And throughout the entire system you'll find countless Chapman Valves. Chapman has been meeting the demands of this modern system for a number of years. The United States Army Corps of Engineers and the District of Columbia, Department of Sanitary Engineering insist that their valves meet every modern requirement . . . requirements that involve operation, size, pressure, stress and flow.

The **CHAPMAN** Valve Manufacturing Co.

INDIAN ORCHARD, MASSACHUSETTS

For more than 75 aggressive years, Chapman has been producing valves that meet every modern requirement. Chapman has the engineers, the metallurgists, the foundries, the manufacturing and testing facilities to meet the higher-pressure, higher-temperature demands of both today and tomorrow. At Chapman, there is always something new. It will pay you to talk with one of our engineers and let him bring you up to the instant. Write to us and he'll call at your convenience.

. . . for more details, circle No. 60 on Reader Service Postcard

How to figure job efficiency

By D. K. HEIPLE
Chief Field Engineer
LeTourneau-Westinghouse

THE MEASURE of a machine, a plant, a man, or a dirt moving job is efficiency. Some of these are easy to measure, others difficult. Those

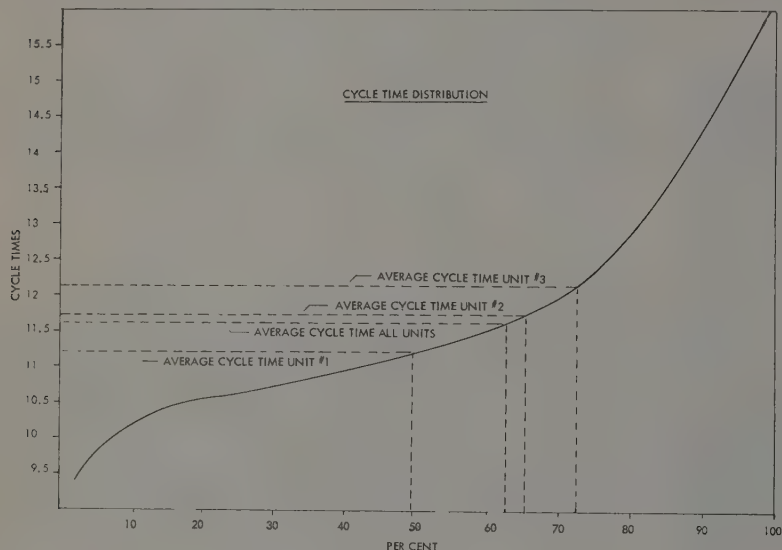
that go into the total make-up of a construction project are not only often difficult to predict, but when added together can result in a rather surprising total.

As a 100% starting point the contractor has a given number of work-

ing days in any calendar period. The first efficiency loss he faces is one of delays to either all or part of the operation because of items he can perhaps anticipate but has problems in controlling, such as weather, preceding construction or engineering not finished on schedule, absenteeism on the part of the crews, etc. This may vary from almost nothing for short periods up to 50% or more in an extremely wet season. To see how a total project can suffer, let's assign 10% to these causes as a starter and look further.

In the 90% time remaining, the equipment spread — whether scrapers and push tractors, trucks and shovels, or paving layout — is subject to mechanical breakdowns. Some of these may overlap in the repair time with weather or other downtime, but an extra loss of 5% to 15%, depending upon condition of equipment, maintenance program, and job conditions, may well be anticipated. If this is only 5%, the total efficiency is still down to 85.5% ($90\% \times 95\%$).

Next a big bite comes in what is known as the 50-minute hour. Over a period of time an equipment operator and the conditions of a job seldom combine to produce more



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NEW LOW COST ALL-PURPOSE ROLLER LETS YOU START WITH SMALL INVESTMENT

Cash in on the tremendous demand in the paving field. The General all-purpose, heavy duty, power operated roller lets you pave asphalt driveways and walks, parking lots, service stations. Roll lawns, tennis courts, playgrounds, parks and municipal properties. The General all-purpose roller is time tested and job proven — built to take a beating and withstand years of rugged service. Features a new automatic transmission with full reverse to give complete maneuverability in tight spaces. Simple, foolproof, adjustable weight control lets you roll anything from blacktop driveways to highways with equal ease. Exclusive fingertip operation of all controls on a single lever — brake, transmission and throttle. High curb clearance allows precision rolling close to buildings and obstructions. Hinged hood permits ready accessibility to automatic transmission and engine for easy service and maintenance. General machines now in use the world over testify to their durability, efficiency, economy, and trouble-free operation. Write or call for full information.

WORKS ALL YEAR 'ROUND ON MANY DIFFERENT JOBS

A roller lets you take jobs all year 'round. Customers are everywhere — home owners, landscapers, municipal governments. Has all the features found in rollers costing twice as much: Oversized water tank with individual controls both with compression and guide roll — with dual scrapers and large cocoa mats. A real professional contractor's roller that enables you to take ANY JOB. Write or call for full information.

DEALERS!

WRITE — WIRE — PHONE
Mr. McCaughey
Choice Territories Still Open
Tilden 5-5401



LOOK AT ALL THESE FEATURES

Rolls full 32". Fully automatic reversing transmission. Ruggedly constructed. Heavy duty front forks made of $\frac{1}{2}$ " plate. Main frame $\frac{3}{8}$ " plate. Maximum weight over 2000 lbs. Oversize water tank at no extra cost. Cocoa mats and scrapers both rolls included.

GENERAL ENGINES CO. ROUTE 130, THOROFARE, N. J. • CALL TILDEN 5-5401

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WESTERN CONSTRUCTION—January 1954

than 50 actual working minutes out of 60. Although 55-minute efficiency is sometimes recorded, a variance between 40 minutes and 50 minutes out of 60 is the range usually encountered. Complete balance from hauling to loading units is difficult if not impossible, resulting in waiting at cut or fill, units sometimes bog down, operators stop for drink, instructions, or a breather. The result can be measured by checking a load count for a given period and comparing it against the average of cycle times for the same period on all the uninterrupted cycles. For example, if units can average 4-min. cycles, the indicated load count would be 15 per hr. per machine. A 2-hr. load count with timed cycles showing 25 loads actually hauled would be at a 50-minute hour, or $25 \div 30 = 83\%$ efficiency. Total efficiency at this point is down to 70.9% (85.5×83).

Still another, but not so easily defined factor takes an additional toll. This is the difference between the average hauling cycle and some shorter cycle or faster production rate which might be achieved. The graph illustrates how cycle times may vary on a given haul with three scrapers working. In this case the longest cycle time was 16 min. and the shortest about 9.5 min. The average load, haul, spread and return cycle for each machine is marked separately and the combined average also shown. To use the graph, read the overall average point on the lefthand scale which shows a cycle time of 11.6 min. Reading down from the same point on the curve to the percent scale at the bottom shows that of all the loads hauled, 63% were on shorter cycle times than the average.

It would also show for comparison that unit No. 3 averaged 12.15 min. cycles, and about 73% of all loads hauled were faster than this individual machine's average.

The efficiency problem here is a more difficult one, but it is possible to read up from the bottom scale at 50% and across to 11.2 minutes and say if one machine can average this time and half of all loads hauled are faster, that all units might well have the same average. At the extreme it is difficult to believe that one load hauled in 9.5 min. constitutes any demonstrated ability to average 9.5 min. Somewhere in between, however, is an attainable higher average. If in this instance it was determined that, since 30% of the cycle were faster than 10.75 min., this represented an obtainable figure, then the in-

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OPERATORS**
in the
field

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Here is the ideal mobile home that gives you twice the room—that eliminates the cramped quarters of old, conventional units. A simple flick of a switch and TRAILORAMA is automatically converted from a legal 8-foot-wide hauling size to a large, roomy, 15-foot-wide home or office. Fully insulated to withstand any climate, TRAILORAMA is ruggedly built to exacting specifications yet detailed both inside and out to suit the most discriminating owner or buyer.

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450 to 720 sq. ft.
1 - 3 bedrooms
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Optional features include:
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450 to 720 sq. ft.
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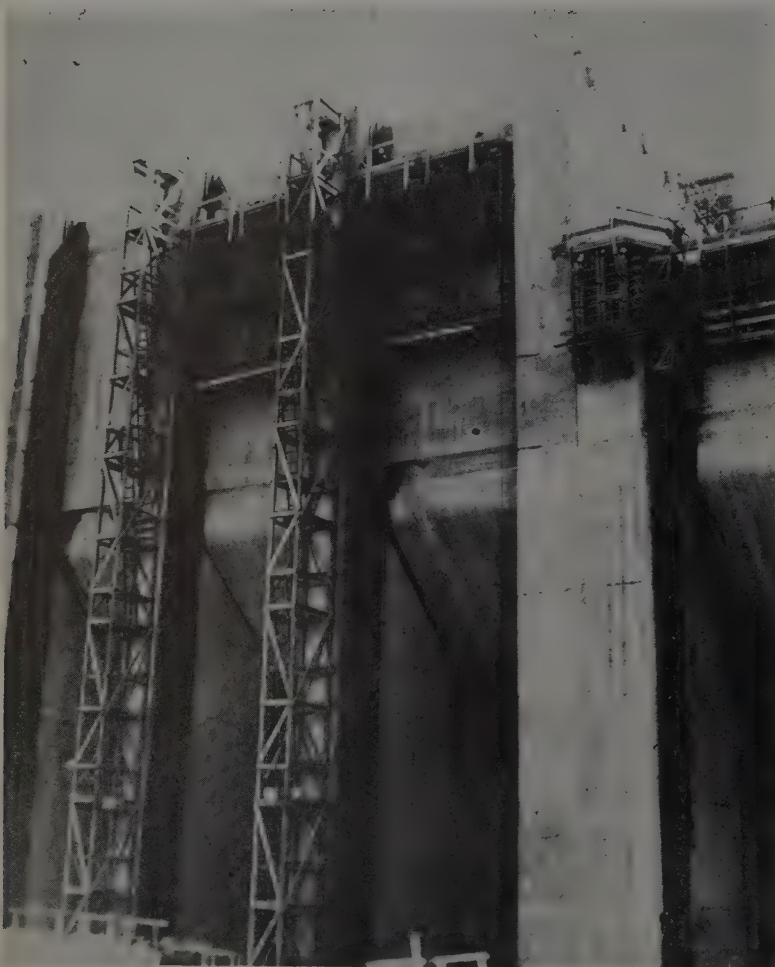
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dedicated working efficiency at the average shown is about 93%. (This curve actually represents a smooth running operation with 40% of the loads hauled falling into a time spread of 10.5 to 11.5 min., and would be a tough one to change substantially.) Nevertheless, if the faster cycle is practical, then the indicated efficiency is at 93% for this phase, and the total finally be-

comes 70.9 x 93 or about 66%.

The point to remember is that overall job efficiency is the result of a number of factors, each of which is taking a slice from a rapidly declining potential to produce. The organization that combines its operating know-how to save a per cent or two all the way down the line can well mean the difference between profit and loss.

Suspended forms speed concreting



MERRITT-CHAPMAN & SCOTT, contractor for the huge Priest Rapids Dam in central Washington, recently solved a concrete forming problem in a novel way. The problem was to place Blockout Concrete, a thin layer of concrete around the guides for the trash racks and intake gates. To build conventional staging or falsework from the bottom would have been a considerable expense as some of the vertical guides are more than 100 ft.

Norton Stone, carpenter superintendent, with the help of his form engineers, finally devised a method which saved 50% of the time and expense originally figured for the operation. Twelve suspended platforms were constructed, six for the trash racks, and six for the intake gates. Each platform and form was designed to make 10-ft. lifts, and will be raised 55 times a lift every 24 hr. The platform contained three work decks. The top was for the

concrete placing, the second for the working of forms mounted on each end of platform which could be expanded and contracted, by means of screw jacks, and the bottom deck for cement finishers, another saving in time and materials.

The platforms were suspended on four 100-ft. 1/2-in. cables, one at each corner, which passed through Griphoists located at the platform. After the concrete had been placed and was set sufficiently to make the next pour, the four Griphoists were worked simultaneously to raise the platform to the next pouring level. For the twelve platforms a total of 48 Griphoists were required.

McNary Dam spider war

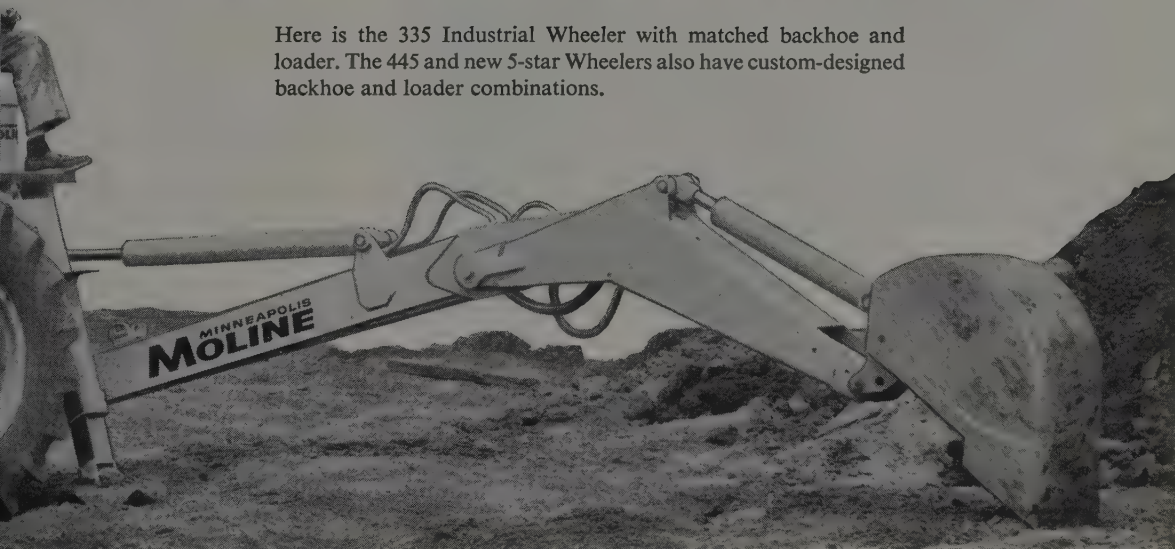
A MOBILE fog manufacturing machine capable of enveloping an entire transformer bay atop McNary Dam in a cloud of insecticide spray is the hoped-for remedy to the spider menace that has descended upon the huge U. S. Army, Corps of Engineers operated, Columbia River multipurpose plant.

Where the deluge of spiders came from, nobody seems to know. They merely arrived—spiders of every description from daddy longlegs to ugly striped species the size of horse chestnuts, and to add a hazard to the nuisance, a liberal scattering of black widows. A spray crew with hand-pressure sprayers attempted to battle the draping of webs at every guard rail, every corner crevice, and every insulator. The battle, however, seemed to be a losing one. The fog machine, capable of discharging under pressure a chlor-dane base insecticide as a vaporous cloud to envelope an entire area at a time, seemed the solution. The fog treatment must be repeated every three days to accommodate for the egg hatch which is not susceptible to the spray.

This is the first season since the dedication of McNary Dam in 1954 that spiders have developed into any kind of a menace. It is believed the spring flood debris brought down during high water is responsible for the descent of the spider horde. They seem to be thickest along the trashracks that collect the flood debris before it reaches the powerhouse intake decks. However, it is the huge transformers, with their constant warmth and dampness, that seem to create the breeding spots. In many places the transformer bracing and supports are a mass of webs.

wax" from one man... Industrial Dealer!

Here is the 335 Industrial Wheeler with matched backhoe and loader. The 445 and new 5-star Wheelers also have custom-designed backhoe and loader combinations.



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re advantages for you: You can buy the par-
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truck & Tractor Service Co.	Burley, Idaho
Implement Co.	Nampa, Idaho

COMPANY	LOCATION
Taylor Farm Service	Tremonton, Utah
Lee Redman Equipment Co.	Phoenix, Arizona
Kroeger Equipment Co.	El Cajon, California
Valley Equipment Co.	Fallon, Nevada
Contractor's Equipment & Supply Co. .	Albuquerque, N. M.

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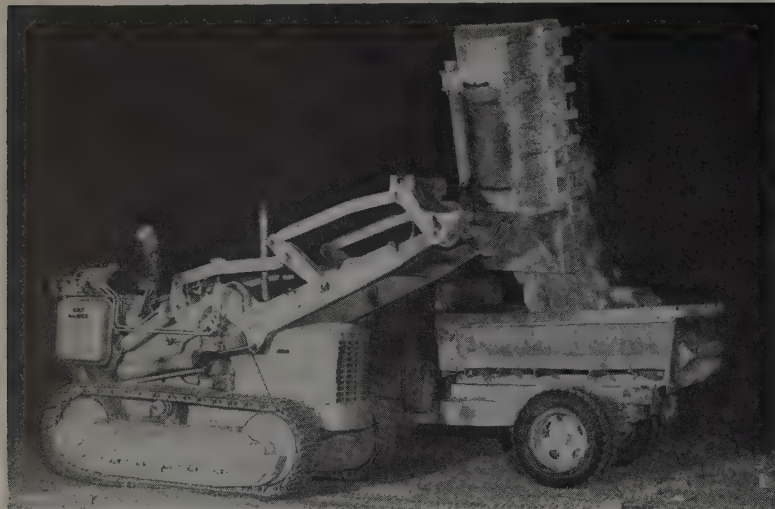
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See manufacturer's detailed listing in Yellow Section

Try a side dumping bucket



LESS TIME to complete the job, lower cost per yard of material moved—these results meet the need of most contractors to counter today's narrowing profit margins. One place to look for help is at attachments for their present machines that will increase versatility, increase production, and lower maintenance costs. Typical of these

attachments is the side-dumping bucket for tractor-shovels.

Dumping to the side, as well as straight ahead, permits working in tighter spaces, increased production, less ground scuffing, better loading of hauling units, less operator fatigue, and lower maintenance costs. Any one of these benefits will help increase profits.

Narrow working spaces, such as alleys and highway shoulders, have always presented problems in economical job layouts. For instance, look at the job one contractor encountered in the excavation for an alley paving project.

To ready the alleys for paving, 15 in. of compacted crushed stone and earth was to be removed. Each alley was 600 ft. long from street to street. Its narrow, 16-ft. width precluded loading trucks at the point of excavation with a front-dumping bucket.

The prevalent method of handling this job would be to loosen the material, doze it to either entrance (up to 300 ft. away), and then load the trucks with a 2-yd. conventional tractor-shovel. Using one machine to handle the 446 yd. of excavated material, this job would have taken six hours.

But the contractor completed the alley, including grading and clean-up, in just 5 hr., 5 min., with a Caterpillar No. 995 Traxcavator equipped with a 1½-yd. side dumping bucket and a No. 4 mounted ripper.

First the alley was thoroughly ripped to 10-in. depth. This permitted excavating the entire 15 in. of loose material in one lift. The

THIS JOB 6 MONTHS AHEAD OF SCHEDULE



Stang dewatering cuts time by 50% and reduces costs!

Maximum coordination between wellpoint dewatering, excavation, concrete and rip-rap moved this beach front flood control project ahead by six months. As a result, more than substantial unit cost savings were realized.

Saving time and money by efficient dewatering is a Stang-proved fact. Consult them on your next project for the finest in engineering, equipment and service.

Project: Santa Ana River Improvement;
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Putting water
in its place



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See manufacturer's detailed listing in Yellow Section

WESTERN CONSTRUCTION—January 1959

ft. wide trucks were spotted near the Traxcavator where alley width permitted, and were loaded near the point of excavation. Seven bucket loads put an average of 11.8 ft. in the tandem axle dump trucks. In 4½ hr., the Traxcavator completed 38 loads.

This job provided greater production in narrow working spaces, permitted the contractor to accomplish the work in less time with a less expensive machine, and provided reduced maintenance costs. By eliminating two turns in every loading cycle and the travel distance from point of excavation to the alley entrance, the side-dumping bucket provided less wear on track and steering components.

Even when space is not confining, increased production can result from the use of this side-dumping attachment. While loading crusher-run limestone in a quarry, one Traxcavator increased production 39% by changing from the front dumping only to the side dumping bucket.

Travel time was reduced 23%, with a total reduction in cycle time of 13%. Dumping time is slightly greater due to dumping from the narrow side instead of the broad front. But this permits better placement of loads, frequently eliminating the need to spread the load with a hand shovel.

Elimination of turning reduces ground scuffing to a minimum, a great advantage to miners and quarry men who can not tolerate contamination of stone or ore.

Elimination of two turns from every cycle makes the operator's job easier. In the alley job described above he would have eliminated 276 stops, shifts and turns. One operator in a quarry reported he gained 8 lb. in weight the month after the change to the side-dumping bucket.

Side-dumping buckets are of slightly greater capacity than standard buckets (15% as compared to 1/2 yd.) because of the extension on the side to obtain good load placement. This is accomplished with an overhang beyond the left track.

This overhang gives a wider cutting edge, somewhat reducing excavating ability with the same horsepower, and causing the tractor to wear away from the overhang when rough resistance is encountered. Both of these effects can be counteracted by ripping tough material before excavation. Mounted rippers can handle this job quickly. Caterpillar Tractor Co.

Prevent wear beyond repair



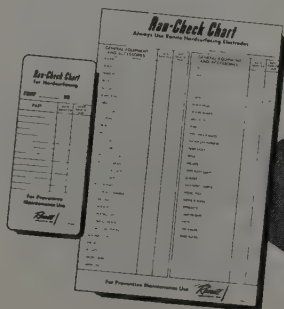
with new Ranite Check Chart System

The wear of construction equipment parts is one of the highest cost factors of contractor operations. Only careful inspection and regular systemized maintenance can hold this cost down.

To promote regular inspection of equipment parts, Ranite offers at no cost or obligation their new Ran-Check-Charts and Stickers for systemized preventive maintenance. They provide an easy way for periodic checking of all non-lubed part surfaces so as to prevent "wear beyond repair" conditions.

For maximum wear-life Ranite's seven types of Job-Graded, Color-Coded hardsurfacing rods have been formulated to meet all wear conditions whether caused by abrasion, impact or a combination of both forces. Smooth running, all position, rapid deposition Ranite rods cover more area per pound making it most economical to use.

Get your free Ran-Check-Charts and Stickers from your local Ranite distributor or write direct today.



RANKIN MANUFACTURING CO.
616 S. Marengo Ave., P.O. Box No. 631, Alhambra, Calif.



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Roof sections raised as complete unit

A NEW METHOD for rapid erection of roof structures was demonstrated recently at the warehouse under construction for California Wood Products, Inc., in Santa Rosa, Calif. The innovation was the raising of completely preassembled bowstring truss roof sections, consisting of trusses, roof joists and plywood sheathing.

General contractor was R. R.

Todd, Santa Rosa, who said that the new system "easily cut a month off normal construction time." Structural engineers were Fuller and Welisch, San Francisco. Roof construction was subcontracted to Taylor Roof Structures, Oakland, utilizing a system developed by Easybow Engineering & Research Co., Oakland.

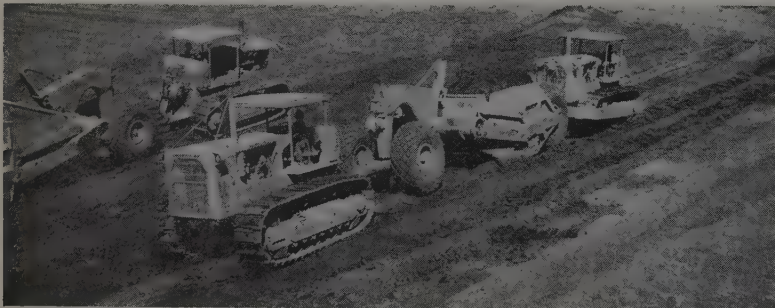
Roof sections consisted of two

patented 50-ft. trusses assembled with roof joists and diaphragm to make a unit 20 x 50 ft. Each section weighed about 7,500 lb. Placing of each roof section required only from 10 to 15 min., accounting in part for the exceptionally fast construction of the building. Complete sections were set in a checkerboard pattern, with open spaces enclosed later.

Work on the 40,000-sq. ft. manufacturing plant began about Oct. 1 after filling and grading was complete. At about the same time, Taylor Roof Structures began assembling sixteen roof sections around the building area, so they would be ready when walls were up. After walls were tilted up and the last column in place, the crane immediately raised the first section—the operation taking 13 minutes.

The next day the remaining fifteen sections were lifted in place and were all set by 2:40 p.m. the same day. Work then commenced on the simple task of filling in the joists and plywood sheathing between the sections. Thus, the job was substantially ready for roofing less than six weeks after construction started.

To assure maximum speed, R. R. Todd precast at the site eighteen columns to go along the two walls that support the trusses, thus eliminating ten days or more time usually required to form, pour and cure poured-in-place columns.



Don't forget crawler-drawn scrapers

EXTRA DOLLARS and production are available to contractors on many projects with more balanced scraper spreads, using crawler-drawn scrapers in addition to high-speed rubber-tired units. Rubber-tired units often are being used to carry dirt that could be moved at less cost per yard and more yards per hour by larger crawler-drawn scrapers.

Studies have shown that more than half the dirt hauled on highway projects by rubber-tired scraper units is being moved less than 1,000 ft. This is well within the economical haul distance of the 27-yd. struck capacity crawler-drawn scrapers of modern design. Under many conditions of grade and underfooting, these crawler-scraper units are best suited for the job.

At present, many contractors turn to the crawler-drawn scraper only for the following conditions: steep grades, pioneering, finish, cleanup, muddy and rocky conditions, very short hauls and utility work. Hauls rarely exceed 500 ft. And even on these short hauls, rubber-tired units frequently are used when conditions permit.

Often the choice of rubber-tired equipment is based solely on availability. The contractor has these machines, which he needs for his longer hauls, so he uses them for all the dirt moving possible.

But in these days of highly competitive bidding, a cent or two less per yard, without sacrificing production, can make the difference between getting or losing a bid, or between profit and loss. Extensive tests have proved that larger crawler-drawn scrapers can produce up to 60 yd. more per hour, at savings of up to 3¢ per yd., on hauls of 1,200 ft., if conditions are such

(Continued on page 114)

ROAD
BUILDING



FOR YOU HERE

Look over the Manitowoc model chart at the left to compare capacity ratings. No matter what type of jobs you handle, general contracting or specialization in one field, you'll find that Manitowoc is THE LINE for '59!

For fast transit between jobs with big lift capacity on the job, there are two self-propelled truck cranes and the new Model 3500TC 80 ton mobile crane. There are powerful, fast-cycling shovels for any excavating project from residential basements to

expressway construction. Of course, for setting steel, pouring concrete or any other precise lift work nothing matches the power, speed and control of Manitowoc cranes.

In the area of marine construction, dredging, canal excavation and shoreside material handling Manitowoc machines (many times mounted on Manitowoc-built barges) have proved to be the most adaptable to the special needs of this field.

Before you bid on any job in 1959 check with your Manitowoc distributor. He'll be happy to recommend the unit that will help you be low bidder with greater profit from those narrow margin contracts.

Manitowoc

MANITOWOC ENGINEERING CORP.

(A subsidiary of The Manitowoc Company, Inc.)

MANITOWOC, WISCONSIN

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See manufacturer's detailed listing in Yellow Section

that rubber-tired scrapers must haul in lower than top gears.

With these extra profits and production possible, it behooves a contractor to study his jobs to see if he cannot make good use of the larger crawler-drawn scrapers. Often he has a choice of job layouts which would permit the use of this tool. The crawler tractor will permit him to move heavier loads over steeper grades and rougher terrain.

One contractor, building 96 mi. of large irrigation canals, had the choice between steep grades (up to 12%) and shorter hauls, or gentler

grades and longer hauls. He chose the first, and moved in 36 of the 27-yd. crawler-drawn scraper units. For a comparable investment, he gained higher production at lower cost per yard.

Of course, the contractor cannot gain these benefits on all jobs. And sometimes the amount of work described above is too small to warrant use of this tool. But on many jobs there are large quantities of this type yardage, sufficient to provide real dollar and production gains for the alert contractor. *Caterpillar Tractor Co.*

How to keep wooden piles from splitting

WHEN the penetration of a pile is less than 6 in. per blow, the usual practice is to protect it from splitting and "brooming" by notching the top of the pile about 1/2 in. deep and putting on a wrought iron ring 5/8 in. thick by 2 1/2 in. to 3 in. wide, ordinarily weighing 12 to 18 lb. and costing several dollars. Since the diameters of the piles vary, the fitting of these pre-formed rings is a time-consuming process.

In a new method the end of the pile is chamfered at 45 deg. and a Signode steel strap (1 1/4 x .035 in. or 1 1/4 x .031 in.) is applied several inches from the end.

Experience has shown that this

size of strap is adequate, but if double strength is desired the strap can be looped about the pile twice, so that three thicknesses of strap go through the seal. In this case, painted and waxed strapping should be used and it should be cut to length to facilitate forming the loop.

Advantages of this method are:

The material cost with strapping is only about 10c to 15c per pile compared with several dollars or more using wrought iron rings.

A strap can be put on in a minute or so of spare time, while the notching of the ring is a major operation.

... Circle No. 159

Unusual steel frame

THE STEELWORK for Bethlehem Pacific's new general office building in San Francisco is nearing completion. The floors of the building are cradled between 16 free standing exterior columns which rise 210 ft. from street level.

The exterior columns are built up from heavy steel wide flange sections with reinforcing plates and stiffening channels which have been shop riveted to the flanges, making a slender steel shaft capable of bearing a load of approximately 1,484,000 lb. per column. Earthquake forces are partially transmitted to the inside core by a built-up girder section. Where these girders connect to the exterior columns, they are haunched to a depth of 4 ft.

In designing the building, the architects, Welton Becket, F.A.I.A. and Associates, followed the desire of Bethlehem Pacific to eliminate all column obstructions along the outside wall of the building.



Swinerton & Walberg is general contractor. Structural engineers are Hayes and Little and John A. Blume and Associates.

WESTERN CONSTRUCTION'S CATALOG SECTION



CUMMINS ENGINE COMPANY, INC.
..... pages 115, 116, 117 & 118

... for more details, circle No. 69 on
Reader Service Postcard
See manufacturer's detailed listing in
Yellow Section

DROTT MANUFACTURING COMPANY
(International Harvester Co.)
..... pages 119, 120, 121 & 122

... for more details, circle No. 70 on
Reader Service Postcard
See manufacturer's detailed listing in
Yellow Section

HUBER-WARCO COMPANY
..... pages 123, 124, 125 & 126

... for more details, circle No. 71 on
Reader Service Postcard
See manufacturer's detailed listing in
Yellow Section

NOBLE COMPANY
..... pages 127, 128, 129 & 130

... for more details, circle No. 72 on
Reader Service Postcard
See manufacturer's detailed listing in
Yellow Section

THE PENNZOIL COMPANY
..... pages 131 & 132

... for more details, circle No. 73 on
Reader Service Postcard

SEAMAN-ANDWALL CORPORATION
..... pages 133 & 134

... for more details, circle No. 74 on
Reader Service Postcard
See manufacturer's detailed listing in
Yellow Section

**THOMPSON AIRCRAFT TIRE
CORPORATION** ... pages 135 & 136

... for more details, circle No. 75 on
Reader Service Postcard

WAUKESHA MOTOR COMPANY
..... pages 137, 138, 139, 140, 141 & 142

... for more details, circle No. 76 on
Reader Service Postcard
See manufacturer's detailed listing in
Yellow Section

WESTERN CONSTRUCTION

1959 EQUIPMENT DIRECTORY

Manufacturers Section Yellow

Distributors Section White

Products Section Blue

Trade Names Section Blue

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WESTERN CONSTRUCTION

609 Mission Street • San Francisco 5, California

YUkon 2-4343

MANUFACTURERS' SECTION

CONTAINS . . .

Names of Manufacturers, arranged alphabetically with their products, branch offices, other key western personnel and their distributors in the 12 western states.

ACKER DRILL CO., INC.
P.O. Box 830
Scranton 2, Pennsylvania

PRODUCTS: Heavy duty, light duty and portable Core Drills, diamond and shot; Portable Soil Sampling Rigs, Sampling Kits and Wash Boring Rigs; Rotary Earth Augers, heavy duty and light duty; Pavement Test Core Drills, diamond and shot type; Core Drill supplies and complete line of soil sampling tools.

Distributors

COLORADO
Pueblo.....S. W. Pressey & Son
NEW MEXICO
Albuquerque.....Construction Machinery Co.

ACME IRON WORKS
1343 West Laurel Street
P.O. Box 2020
San Antonio 6, Texas

PRODUCTS: Tandem and Three-Wheel Road Rollers.

Distributors

ALASKA
(Seattle).....Sahlberg Equipment Co.
ARIZONA
Phoenix.....Western Machinery Co.
CALIFORNIA
Berkeley.....West Coast Engine & Equipment Co.
Los Angeles.....Calavar Corp.
COLORADO
Denver.....Western Machinery Co.
Grand Junction.....Western Machinery Co.
IDAHO
Boise.....G-K Machinery Co.
MONTANA
Billings.....Western Construction Equipment Co.
Great Falls.....Western Construction Equipment Co.
NEVADA
Reno.....Pioneer Equipment Co.
NEW MEXICO
Albuquerque.....Lively Equipment Co.
OREGON
Portland.....Contractors Equipment Corp.
UTAH
Salt Lake City.....Rocky Mountain Machinery Co.
WASHINGTON
Seattle.....Sahlberg Equipment Co.
Spokane.....Andrews Equipment Service of Wn., Inc.
WYOMING
Casper.....Moss Equipment & Supply Co.

ACROW CALIFORNIA, INC.
500-19th Street
San Francisco 7, California

PRODUCTS: Shores, scaffold; Scaffold Shoring; Slab Forms; Wall Forms; Road Forms; Dam Forms; Tunnel Forms; Horizontal Shoring.

Factory Branch

COLORADO
Denver, Acrow Denver, Inc.....1035 S. Huron St.

Distributor

WASHINGTON
Seattle.....Van Daal Distributors

ADAMS DIVISION
LeTourneau-Westinghouse Co.
2301 North Adams Street
Peoria, Illinois

See listing under LE TOURNEAU-WESTINGHOUSE CO.

ADHESIVE ENGINEERING
1411 Industrial Way
San Carlos, California

PRODUCTS: Concrete Adhesives.

AEROIL PRODUCTS CO., INC.
72 Wesley Street
South Hackensack, New Jersey

PRODUCTS: Tar, Pitch and Asphalt Heaters; Asphalt Surface Heaters; Tool Heaters; L.P.G. Salamanders; Water Heaters; Thawing Torches; Asphalt Sprayers; Space Heaters; etc.

Factory Branch

CALIFORNIA
Los Angeles—Manager.....Charles Kleivies
3217 Union Pacific Ave.

AEROQUIP CORPORATION
300 South East Avenue
Jackson, Michigan

PRODUCTS: Flexible Hose Lines; Detachable, Reusable Fittings; Self-Sealing Couplings.

Western Division

CALIFORNIA
Burbank.....Aeroquip Corp., Western Div.
3015 Winona Ave.
PH: TH 5-1551...General Manager, F. F. Hinkley
Sales Manager, C. W. Sawhill

AIR PLACEMENT EQUIPMENT CO.
1009 W. 24th Street
Kansas City 8, Missouri

PRODUCTS: Dry Blend Concrete Mixers (automatic proportioning continuous feed); Sandblasters; Concrete Placers; Concrete Guns.

Distributors

ARIZONA
Phoenix.....Western Machinery Co.
CALIFORNIA
Fresno.....Edward R. Bacon Co.
Los Angeles.....Smith-Booth-Usher Co.
Oakland.....Edward R. Bacon Co.
Sacramento.....Edward R. Bacon Co.
San Diego.....Smith-Booth-Usher Co.
San Francisco.....Edward R. Bacon Co.
COLORADO
Denver.....Western Machinery Co.
Grand Junction.....Western Machinery Co.
IDAHO
Idaho Falls.....Western Machinery Co.
UTAH
Salt Lake City.....Western Machinery Co.
WASHINGTON
Seattle.....A. H. Cox & Co.

AIR REDUCTION PACIFIC CO.
220 Bush St., 961 Mills Tower
San Francisco 4, California

PRODUCTS: Oxygen, Acetylene, Nitrogen, Argon, Helium, Carbide; Welding Torches and Regulators; Oxy-Acetylene Cutting Machines; Oxy-Acetylene Accessories; Arc-Welding Machines and Electrodes; Arc-Welding Cable and Accessories; Inert Gas Welding Equipment.

Factory Branches

ARIZONA
Phoenix, 2308 Grand Ave.....H. L. Meier
(Continued in next column)

Air Reduction Pacific Co. (Cont'd)

CALIFORNIA
Bakersfield, 3131 Jewett Ave.....E. E. Broadwater
Burbank, 3200 Burbank Blvd.....R. M. Parma
Fresno, 2319 Santa Clara.....L. N. Quartz
Inglewood, 1513 Centinela.....E. J. Tripp
San Diego, 1531 Rigel St.....R. W. Gaud
Stockton, 845 E. Hazelton.....R. M. Beckman
WASHINGTON
Tacoma, 2235 Ross Way.....E. J. Whit

Factory Personnel

CALIFORNIA
Emeryville, 1485 Park Ave.....H. W. Saunders, V.M.
Emeryville, 1485 Park Ave.....G. G. Drake, Sls. Mgr.
Vernon, 2861 Leonis Blvd.....E. W. MacCorkle, V.M.
Vernon, 2861 Leonis Blvd.....S. Georgeson, Sls. Mgr.
OREGON
Portland, 430 NW 10th Ave.....H. A. Hoth, V.M.
Portland, 430 NW 10th Ave.....S. Richardson, S. Mgr.
WASHINGTON
Seattle, 3623 E. Marginal Way...L. Hamilton, V.M.
Seattle, 3623 E. Marginal Way...J. R. Nelson, S. Mgr.

ALEMITE DIVISION
STEWART-WARNER CORP.
1826-52 Diversey Parkway
Chicago 14, Illinois

PRODUCTS: Alemite Lubricating Equipment and Vices; Stewart-Warner Instruments; Alemite Portable Service Stations for Construction Field.

Distributors

ARIZONA
Phoenix.....Alemite Stewart-Warner Co. of A
CALIFORNIA
Los Angeles.....Alemite Co. of So. Calif
S. San Francisco.....Alemite Co. of No. Calif
COLORADO
Denver.....The Alemite Co.
MONTANA
Billings.....Alemite Sales Co. of Mont
OREGON
Portland.....Alemite Co. of the North
TEXAS
El Paso.....The Alemite Co. of the South & New M
UTAH
Salt Lake City.....The Alemite Co.
WASHINGTON
Seattle.....Alemite Co. of the North

ALLIS-CHALMERS MANUFACTURING CO.

Construction Machinery Division
P.O. Box 512
Milwaukee 1, Wisconsin

PRODUCTS: Motor Graders; Crawler and Wheel Tors; Power Units; Motor Scrapers; Wagons; Pull-type Scrapers.

Factory Branches

CALIFORNIA
Oakland—Manager.....S. C. ...
COLORADO
Denver—Manager.....N. A. ...
OREGON
Portland—Manager.....R. G. M.

Dealers

ARIZONA
Phoenix.....Neil B. McGinnis Equipm
(Continued on next page)

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
Equitable Building, Portland

Allis-Chalmers Mfg. Co. (Cont'd)

CALIFORNIA
 Bakersfield.....San Joaquin Tractor Co.
 Berkeley.....West Coast Engine & Eqt. Co.
 Eureka.....Trinity Tractor Co.
 Los Angeles.....Shaw Sales & Service Co.
 Redding.....Shasta Truck & Equipment Sales
 Sacramento.....Industrial Tractor Sales
 San Diego.....Construction Machinery Co.
 San Jose.....West Coast Engine & Eqt. Co.
 Ukiah.....West Coast Engine & Eqt. Co.

COLORADO
 Denver.....Power Equipment Co.
 Grand Junction.....Power Equipment Co.

IDAH0
 Boise.....Southern Idaho Equipment Co. of Boise
 Idaho Falls.....Southern Idaho Equipment Co.
 Twin Falls.....Southern Idaho Equipment Co.

MONTANA
 Billings.....Seitz Machinery Co.
 Kalispell.....Mountain Tractor Co.
 Missoula.....Mountain Tractor Co.

NEVADA
 Elko.....A-D Machinery Co.
 Las Vegas.....A-D Machinery Co.
 Reno.....Reno Equipment Sales Co.

NEW MEXICO
 Albuquerque.....Harry Cornelius Co.

OREGON
 Medford.....Haupt Tractor Co.
 Portland.....Wood Tractor Co.
 Springfield.....Timber Tractor Co.

UTAH
 Salt Lake City.....Cate Equipment Co., Inc.

WASHINGTON
 Puyallup.....Pacific Hoist & Derrick Co.
 Seattle.....Pacific Hoist & Derrick Co.
 Spokane.....American Machine Co.

WYOMING
 Casper.....Studer Tractor & Equipment Co.

ALLIS-CHALMERS MFG. CO.
Engine-Material Handling Div.
Box 512
Milwaukee 1, Wisconsin

PRODUCTS: Engines; Generator Sets; Power Units (diesel and gasoline); Material Handling Equipment.

Factory Branch Manager

CALIFORNIA
 Oakland—1400 Park Ave.....D. L. Kagy

Distributors

ARIZONA
 Elfrida.....Hill Truck Co.
 Phoenix.....Arizona Equipment Sales, Inc.
 Tucson.....N. B. McGinnis Equipment Co.
 Tucson.....Wilco

CALIFORNIA
 Calexico.....J. E. Morlett
 Long Beach.....Anderson-Bevier Co., Inc.
 Newport Beach.....George J. Meachem
 Oakland.....Thomas Short Co.
 Oxnard.....Power Truck Co.
 Sacramento.....Island Equipment Co., Inc.
 San Bernardino.....H. P. Kingsley
 Ray Roberts Pumps & Eqt. Co.
 San Diego.....Construction Machinery Co.
 Wilmington.....Diesel Control Corp.

COLORADO
 Denver.....Power Equipment Co.

IDAH0
 Idaho Falls.....Mel Brown Co.
 Falls Truck & Equipment Co.

MONTANA
 Billings.....Seitz Machinery Co., Inc.
 Cut Bank.....Service Supply
 Missoula.....Mountain Trailer Co.

NEVADA
 Elko.....A-D Machinery Co.
 Reno.....Reno Equipment Sales

NEW MEXICO
 Roswell.....Smith Machinery Co., Inc.

OREGON
 Portland.....Hamilton Engine Sales, Inc.

UTAH
 Salt Lake City.....Motor Mercantile Co.

WASHINGTON
 Seattle.....Fremont Electric Co.
 Pacific Fishing & Trading Co.
 Yukon Equipment Co., Inc.

WYOMING
 Casper.....Power Service, Inc.

ALUMINUM BODY CORP.
1600 West Washington Blvd.
Montebello, California

PRODUCTS: Custom Built Aluminum Trailers, Truck and Dump Bodies, Sleeper Cabs.

DISTRIBUTION THROUGH MANUFACTURER

AMERICAN AIR FILTER CO., INC.
215 Central Avenue
Louisville 8, Kentucky

PRODUCTS: Heaters, portable; Dust Collectors; Blowers; Air Filters.

District Representative

WASHINGTON
 Bellevue—8733 4th Pl., NW.....J. A. Dougan

Headquarters—Pacific Region

CALIFORNIA
 San Francisco—460 9th St.....R. H. Nelson

Factory Branches

CALIFORNIA
 Los Angeles—6175 York Blvd.....Russell C. Taylor

COLORADO
 Denver—125 E. 20th Ave.....C. DiMercurio

Distributors**Portable Space Heaters Only**

ALASKA
 (Seattle).....Northern Commercial Co.

CALIFORNIA
 Fresno.....Edward R. Bacon Co.
 Oakland.....Edward R. Bacon Co.
 Sacramento.....Edward R. Bacon Co.
 San Francisco.....Edward R. Bacon Co.

COLORADO
 Denver.....Western Machinery Co.
 Grand Junction.....Western Machinery Co.

IDAH0
 Boise.....Arnold Machinery Co., Inc.
 Idaho Falls.....Arnold Machinery Co., Inc.

MONTANA
 Billings.....Montana Powder & Equipment Co.
 Helena.....Montana Powder & Equipment Co.

OREGON
 Eugene.....Loggers & Contractors Mch. Co.
 Portland.....Loggers & Contractors Mch. Co.

UTAH
 Salt Lake City.....Arnold Machinery Co., Inc.

WASHINGTON
 Everett.....A. H. Cox & Co.
 Seattle.....A. H. Cox & Co.
 Spokane.....Western Machinery Co.
 Tacoma.....A. H. Cox & Co.

WYOMING
 Casper.....Studer Tractor & Equipment Co.

Distributors—Other Products

ARIZONA
 Phoenix.....Hennesy Equipment Sales

CALIFORNIA
 Los Angeles.....American Air Filter Co., Inc.
 San Francisco.....American Air Filter Co., Inc.

COLORADO
 Denver.....American Air Filter Co., Inc.
 E & M Equipment Co.
 Herman & Von Rosenberg

MONTANA
 Missoula.....W. M. Walterskirchen Co.

NEW MEXICO
 Albuquerque.....Boyd Engineering Co.

OREGON
 Portland.....Benz Co.

UTAH
 Salt Lake City.....Midgley-Huber Co.

WASHINGTON
 Seattle.....R. E. Chase & Co.
 Spokane.....Nelson Mechanical Equipment Co.
 Tacoma.....R. E. Chase & Co.

AMERICAN BITUMULS & ASPHALT CO.
320 Market St.
San Francisco 20, California

PRODUCTS: Asphalt Cements; Asphalt Cutbacks and Emulsified Asphalt.

Factory Branch Managers

ARIZONA
 Tucson, 601 W. Simpson St.....L. R. Martz

CALIFORNIA
 Inglewood, 1401 W. Florence.....D. E. Ketcham
 Oakland, 4525 San Leandro.....O. Hoefler

OREGON
 Portland, 5501 NW Front Ave.....G. L. Ritter

AMERICAN CHAIN & CABLE
COMPANY, INC.

Bridgeport 2, Connecticut
PRODUCTS: Wire Rope.

Factory Branches

CALIFORNIA
 San Francisco—Manager.....George F. Lehr

COLORADO
 Denver—Manager.....Paul D. Steele

District Representatives

CALIFORNIA
 Los Angeles—6800 E. Acso St.....R. S. Heffner

OREGON
 Portland—2210 NW Roosevelt St.....I. L. Schobert

Distributors

ARIZONA
 Kingman.....Tarr McComb & Ware Commercial Co.
 Phoenix.....Complete Auto & Home Supply Co.
 Min-A-Con Equipment Co.

Tucson.....Complete Auto & Home Supply Co.

CALIFORNIA
 Alturas.....Moty & Van-Dyke, Inc.
 Arcata.....Moty & Van-Dyke, Inc.
 Chico.....Peterson Tractor & Equipment Co.
 El Centro.....Valley Auto Supply Co.
 Fresno.....Levi's Iron & Metal Co.
 Grass Valley.....Mine Machinery & Supply Co.
 Los Angeles.....American Equipment & Body Co.
 Cable Distributors, Inc.
 Dinsmore Equipment Co.
 Gridley Equipment Co.
 Percival Steel & Supply Co.

Porterville.....Quinn Company
 Redding.....Moty & Van-Dyke, Inc.
 Riverside.....Brown-Bewis Industrial Eqt. Co.
 Sacramento.....Sacramento Valley Tractor Co.
 San Diego.....Drake & Bullen Industries Supply Co.
 San Francisco.....Bulotti Machinery Co.
 C. W. Marwedel
 San Jose.....San Jose Supply House
 San Pedro.....Marine Hardware Co., Inc.
 Santa Maria.....Hansen Equipment Co.
 Stockton.....Geiger Iron Works, Inc.
 Visalia.....Quinn Company
 Willow Creek.....Willow Creek Logging Supply

COLORADO
 Creede.....Tomkins Hardware Co.
 Denver.....Constructors Equipment Co.
 Ray Corson Machinery Co.
 Mid-Continent Supply Co.
 Mountain Iron & Supply Co.
 Al Plonkey & Associates
 Grand Junction.....Mid-Continent Supply Co.
 Pacific & Western Industrial Supply
 Pueblo.....S. W. Pressey & Son
 Sterling.....Mid-Continent Supply Co.

IDAH0
 Boise.....Kowallis & Richards
 Idaho Falls.....Southern Idaho Equipment Co.
 N. Lewiston.....Henderson Motors
 Twin Falls.....McVey's, Inc.

MONTANA
 Billings.....Great Northern Tool & Supply Co.
 Hall-Perry Machinery Co.
 Mid-Continent Supply Co.
 Bozeman.....Montana Motor Supply, Inc.
 Butte.....Hall-Perry Machinery Co.
 Chester.....Hall-Perry Machinery Co.
 Cut Bank.....Great Northern Tool & Supply Co.
 Great Falls.....Hall-Perry Machinery Co.
 Kalispell.....Ind. Supply Div. of Forest Products
 Kevrin.....Great Northern Tool & Supply Co.
 Livingston.....Montana Motor Supply, Inc.
 Missoula.....Hall-Perry Machinery Co.

NEVADA
 Reno.....Sanford Tractor & Equipment Co.

NEW MEXICO
 Albuquerque.....R. L. Harrison Co., Inc.
 Klamath Falls.....Union Industrial Corp.
 Farmington.....Mid-Continent Supply Co.
 Las Cruces.....Oliver Equipment Co.
 Roswell.....Clowe & Cowan, Inc.

OREGON
 Eugene.....Harmer Co.
 Klamath Falls.....Moty & Van-Dyke, Inc.
 Lakeview.....Moty & Van-Dyke, Inc.
 Lyons.....Goach Logging Supply
 Philomath.....Goach Logging Supply
 Portland.....Active Equipment Co.
 Harmer Steel Products & Supply Co.
 Sweet Home.....Goach Logging Supply

UTAH
 Provo.....Ahlender Hardware Co.
 Salt Lake City.....Faulger Equipment Co.
 National Equipment Co.

(Continued on next page)

C. I. T.'s Pay-As-You-Depreciate Plan permits payments out of depreciation

American Chain & Cable Co., Inc. (Cont'd)

WASHINGTON
 Seattle.....Hulse Machinery Co.
 Spokane.....Jensen-Byrd Co.
 Tacoma.....Cablecraft, Inc.

WYOMING

Casper.....Bovaird Supply Co.
 Great Northern Tool & Supply Co.
 Mid-Continent Supply Co.
 Wortham Machinery Co.
 Cheyenne.....Wortham Machinery Co.
 Frontier.....Frontier Supply Co.
 New Castle.....Mid-Continent Supply Co.
 Rock Springs.....Colony Corporation
 Wortham Machinery Co.
 Sheridan.....Wortham Machinery Co.
 Thermopolis.....Mid-Continent Supply Co.

AMERICAN COLEMAN CO.

301 S. Nevada Avenue
 Littleton, Colorado

PRODUCTS: Front Drive Axles; All-Wheel Drive Trucks;
 Pneumatic-Tired Bulldozers; Power Take-
 Offs; Prime Movers; Patch Rollers.

Distributors

CALIFORNIA
 Berkeley.....Work Truck Equipment Sales
 Los Angeles.....American Equipment & Body Co.
COLORADO
 Denver.....Robert H. Reynolds Drill Co.
 Rocky Mountain Export Co.
 Littleton.....American Coleman Co., Retail Div.
MONTANA
 Helena.....Beck Motor Co.
NEW MEXICO
 Albuquerque.....Winter Weiss Co.
OREGON
 Portland.....Rudy Yost Truck Equipment Co.
UTAH
 Salt Lake City.....Lang Construction Eqpt. Co.
WYOMING
 Casper.....Glen Moss Equipment Co.

AMERICAN HOIST & DERRICK CO.

63 S. Robert Street
 Saint Paul 7, Minnesota

PRODUCTS: Crawler and Truck Cranes; Hoists and
 Derricks; Revolver Cranes; Locomotive
 Cranes and attachments.

District Representatives

CALIFORNIA
 Burlingame, 1300 Montero.....Harold Lindberg
WASHINGTON
 Mercer Island, 9104 Fortuna Drive.....Robert Lampman

Distributors

ARIZONA
 Phoenix.....Cook Bros. Construction Mch. Co.
CALIFORNIA
 Los Angeles.....Cook Bros. Construction Mch. Co.
 Oakland.....Cook Bros. Truck & Equipment Co.
COLORADO
 Denver.....Constructors Equipment Co., Inc.
IDAHO
 Boise.....G & K Machinery Co.
MONTANA
 Billings.....Hall-Perry Machinery Co.
 Butte.....Hall-Perry Machinery Co.
NEW MEXICO
 Albuquerque.....Contractors Equipment & Supply
OREGON
 Portland.....Hamilton Engine Sales Inc.
UTAH
 Salt Lake City.....Parker Equipment Co.
WASHINGTON
 Seattle.....A. H. Cox & Co.

AMERICAN HOIST PACIFIC CO.

4975 Third Avenue South
 Seattle 4, Washington

PRODUCTS: Powerhouse Gantry Cranes; Level Luffing
 Dock Cranes; Grab-Bucket Unloaders;
 Special Luffing Boom and Hammerhead
 Cranes; Custom Engineered Heavy Lifting
 and Material Handling Equipment.

NOTE: We are a wholly-owned subsidiary of American
 Hoist & Derrick Co., 63 S. Robert Street,
 Saint Paul 7, Minnesota.

AMERICAN LOGGING TOOL CORP.

4203 Union Blvd.
 St. Louis 15, Missouri

PRODUCTS: Logging Tools including Peavies, Cant
 Hooks, Pike Poles, Tongs and Grapples;
 Load Binders; Wire Rope Clips; Timber
 Carriers; Car Movers; Axes; Bush Hooks;
 Scythes; Chain Hooks.

Sales Offices and Warehouses

CALIFORNIA
 Los Angeles—2441 Hunter St.....R. H. Boag
 San Francisco.....44 Potrero Ave.
OREGON
 Portland—1518 NW Marshall.....H. E. Tucker
WASHINGTON
 Seattle—755 Edmunds St.....T. Verhoef

AMERICAN PIPE & CONSTRUCTION CO.

P.O. Box 3428, Terminal Annex
 Los Angeles 54, California

PRODUCTS: Concrete Pipe; Steel Fabricators.

AMERICAN ROAD EQUIPMENT CO.

4201 North 26th Street
 Omaha 11, Nebraska

PRODUCTS: High-Lift Tractor Fork Lifts with concrete
 hopper and aggregate bucket attachments;
 Hand and Motor Operated Brick and Con-
 crete Carts.

Regional Sales Manager

COLORADO
 Denver, 5702 E. Gunnison Pl.....M. E. Morgan

Distributors

ARIZONA
 Phoenix.....Equipment Sales Co.
CALIFORNIA
 Los Angeles.....Calweld, Inc.
 North Sacramento.....Industrial Tractor Sales
 San Diego.....Southern Equipment & Supply
 San Francisco.....Laurence Myers & Co.
COLORADO
 Denver.....King & East Machinery Corp.
MONTANA
 Billings.....Montana Powder & Equipment Co.
 Helena.....Montana Powder & Equipment Co.
NEW MEXICO
 Albuquerque.....Frank's Supply Co.
OREGON
 Portland.....George M. Philpott Co.
UTAH
 Salt Lake City.....Arnold Machinery Co.
WASHINGTON
 Seattle.....Western Tractor & Equipment

THE AMERICAN RUBBER MANUFACTURING CO.

1145 Park Avenue
 Oakland 8, California

PRODUCTS: Conveyor, Elevator and Transmission Belt-
 ing; Water, Air, Oil Suction and Discharge
 Hose, Cement Hose, Suction Hose, etc.;
 Fire Hose; Hose Racks, Reels and Cab-
 inets; Molded Goods—Waterstop, Packing,
 Diaphragms, etc.; Rubber Expansion
 Joints.

Representatives

CALIFORNIA
 Los Angeles, 2216 S. Hill St.....W. C. Muth
OREGON (North)
 Portland, 2939 N. Willamette.....F. F. Weigel
OREGON (South)
 Portland, 635 SE 41st St.....W. H. Galloway
UTAH
 Midvale, 138 E. 7720 South.....J. K. Hardy
WASHINGTON
 Seattle, Smith Tower.....L. D. Eneboe

AMERICAN TRACTOR EQUIPMENT CORP.

9131 San Leandro Blvd.
 Oakland 3, California

PRODUCTS: Bulldozers (inside and outside mounted);
 Roadbuilders (angle blade); Scrapers (hy-
 draulic); Front End Loaders; Rock Rip-
 pers (tractor mounted, hydraulic); Scar-
 iers (hydraulic); Pipeline and Cable Lay-
 ing Rippers.

Distributors

See your local Crawler Tractor Distributor.

ANTHONY CO.

Streator, Illinois

PRODUCTS: Hoists; Dump Trailers; Dump Bodies; Lift
 Gates; Cranes for motor trucks.

Distributors

ARIZONA
 Phoenix.....Auto Safety House
CALIFORNIA
 Fresno.....C & C Trailer & Body Co.
 Los Angeles.....Lambert Co., Ltd.
 San Leandro.....C & C Trailer & Body Co.
 W. Sacramento.....C & C Trailer & Body Co.
COLORADO
 Denver.....Winter-Weiss Co.
IDAHO
 Boise.....Dyson's Truck Equipment Co.
MONTANA
 Billings.....Seitz Distributing Co.
NEW MEXICO
 Albuquerque.....Winter-Weiss Co.
OREGON
 Portland.....Northwest Truckstell Sales, Inc.
UTAH
 Salt Lake City.....Utah Truck Equipment Co.
WASHINGTON
 Seattle.....Nelson Truck Equipment Co.
 Spokane.....Critzer Equipment Co.

ARMCO DRAINAGE & METAL PRODUCTS, INC.

703 Curtis Street
 Middletown, Ohio

PRODUCTS: Corrugated Metal Pipe; End Sections;
 Spiral Welded Steel Pipe; Metal Retain-
 ing Walls; Guardrail; Structural Plate
 Pipe, Arches and Pipe-Archs; Steel Build-
 ings; Pile Shells and Caissons; Steel Pipe
 Piles; Water Control Gates; Flume; Steel
 Tunnel Liner Plate; Steel Sheeting; Snow
 Fence; Corrugated Metal Bridge Plank.

Western Sales Organization

ALASKA
 Direct inquiries to M. R. Ambuhl, Division Sales
 Manager, Box 751, Federal Station, Portland, Oregon.
ARIZONA
 Tempe—State Sales Manager.....C. J. Sturm
CALIFORNIA
 Berkeley—District Sales Manager.....H. E. Blower
 Los Angeles—District Sales Manager.....J. B. Evans
COLORADO
 Denver—Division Sales Manager.....F. R. Randle
IDAHO
 Boise—State Sales Manager.....J. C. Robinson
MONTANA
 Billings—State Sales Manager.....J. B. Dean
NEW MEXICO
 Albuquerque—State Sales Manager.....A. A. Mosher
OREGON
 Portland—Division Sales Manager.....M. R. Ambuhl
 Salem—State Sales Manager.....George Schwarz
UTAH
 Salt Lake City—State Sales Manager.....C. E. Moss
WASHINGTON
 Olympia—State Sales Manager.....R. E. Bodwell
WYOMING
 Cheyenne—State Sales Manager.....F. D. Aeilts

ARPS CORPORATION

New Holstein, Wisconsin

PRODUCTS: Ditchers; Dozers; Scrapers; Trenchers;
 Landscaping Rakes.

Distributors

ARIZONA and CALIFORNIA
 (Fresno).....H. C. Shaw Co.
 (Santa Ana).....H. C. Shaw Co.
 (Stockton).....H. C. Shaw Co.
COLORADO
 Denver.....Hill Machinery Co.
 McCarty-Sherman Distr. Corp.
IDAHO
 Caldwell.....Mitchell, Lewis & Staver
MONTANA
 Billings.....Wymont Tractor & Equipment Co.
NEVADA
 (Fresno).....H. C. Shaw Co.
 (Santa Ana).....H. C. Shaw Co.
 (Stockton).....H. C. Shaw Co.

(Continued on next page)

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
 Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
 Equitable Building, Portland

Arps Corporation (Cont'd)

NEW MEXICO
(Denver).....Hill Machinery Co.
McCarty-Sherman Distr. Corp.

OREGON
Portland.....Mitchell, Lewis & Staver

UTAH
Salt Lake City.....Intermountain Ford Tractor Sales
(Denver).....Hill Machinery Co.

WASHINGTON
Spokane.....Mitchell, Lewis & Staver

WYOMING
(Billings).....Wymont Tractor & Equipment Co.
(Denver).....Hill Machinery Co.
McCarty-Sherman Distr. Corp.

ARROW MANUFACTURING CO. P.O. Box 4120 So. Denver Station 194 West Dakota Avenue Denver 9, Colorado

PRODUCTS: Mobile Hydraulic Hammer.

Distributors

ALASKA
(Seattle).....Totem Equipment Co., Inc.

ARIZONA
Phoenix.....Arizona Equipment Sales, Inc.

CALIFORNIA
Los Angeles.....Crook Co.
San Francisco.....Robinson Equipment Co.

COLORADO
Denver.....Tudor Equipment Co.

IDAHO
Boise.....Engineering Sales & Service Co.

MONTANA
Great Falls.....Normont Equipment Co.

NEVADA
Reno.....General Equipment Co.

NEW MEXICO
Albuquerque.....N. C. Ribble Co.

UTAH
Salt Lake City.....Lang Construction Equipment Co.

WASHINGTON
Seattle.....Totem Equipment Co., Inc.

ARROW TOOLS, INC. 1900 S. Kostner Avenue Chicago 23, Illinois

PRODUCTS: Pneumatic Accessory Tools: Chisels; Star Drills; Rivet Sets; Steel Erection Tools; Safety Chisel Retainers for Chipping and Riveting Hammers; Air Line Filters and Lubricators.

Distributors

ARIZONA
Phoenix.....Superior Equipment Co.
Western Machinery Co.

CALIFORNIA
Los Angeles.....James E. Simkins Co.

COLORADO
Denver.....Gunderson & Taylor Machinery Co.
Union Supply Co.

NEW MEXICO
Albuquerque.....Equipment Sales & Mfg. Co.

OREGON
Portland.....Oregon Tool Supply

UTAH
Salt Lake City.....Industrial Supply Co.

WYOMING
Casper.....Wyoming Automotive Co.

ASPHALT EQUIPMENT CO., INC. 3314 Cherry Lane Fort Wayne 6, Indiana

PRODUCTS: Asphalt Patching Mixers.

Sales Representative

CALIFORNIA
Mill Valley—1 Mercury St.....Wm. J. McDonnell

Distributors

CALIFORNIA
Los Angeles.....Bevis Machinery Co.

COLORADO
Denver.....Accessory Supply Co.

IDAHO
Boise.....Carl Burt Equipment Co.

NEVADA
Elko.....A & D Machinery Co.

(Continued in next column)

Asphalt Equipment Co., Inc. (Cont'd)

NEW MEXICO
Las Cruces.....Oliver Equipment Co.

OREGON
(Seattle).....Caldwell Machinery Co.

UTAH
Salt Lake City.....Equipment Supply Co.

WASHINGTON
Seattle.....Caldwell Machinery Co.

WYOMING
(Denver).....Accessory Supply Co.

ATHEY PRODUCTS CORP. 5631 W. 56th Street Chicago 38, Illinois

PRODUCTS: Pneumatic Tired, Off-highway Trailers; Forged-Trak Trailers; Force-Feed Loaders, portable.

Distributors

ALASKA
(Seattle).....Northern Commercial Co.

ARIZONA
Phoenix.....Arizona Machinery Co.
Yuma.....Braden Machinery Co.

CALIFORNIA
Blythe.....Honnen Machinery Co.
Colusa.....I. G. Zumwalt Co.
El Centro.....Faure Tractor & Equipment Co.
Eureka.....Brizard-Matthews Machinery Co.
Fresno.....Budd & Quinn, Inc.
Hanford.....Davies Machinery Co.
E. Los Angeles.....Shepherd Machinery Co.
Marysville.....Marysville Tractor & Equipment Co.
Modesto.....Valley Tractor Co.
Napa.....Berglund Tractor & Equipment Co.
Oxnard.....Wallace Machinery Co.
Riverside.....Johnson Tractor Co.
Sacramento.....Weaver Tractor Co.
Salinas.....Pringle Tractor Co.
San Diego.....Hawthorne Machinery Co.
San Jose.....Ditz Bros.
San Leandro.....Peterson Tractor Co.
Santa Clara.....Ditz Bros.
Stockton.....Holt Bros.
Visalia.....Quinn Co.

COLORADO
Denver.....McCoy Company

IDAHO
Boise.....Western Equipment Co.
Lewiston.....Nez Perce Tractor & Equipment Co.

MONTANA
Billings.....Nash-Davis Machinery Co.
Great Falls.....Central Machinery Co.
Missoula.....Westmont Tractor & Equipment Co.
Sidney.....Tractor & Equipment Co.

NEVADA
Reno.....Crooks Bros. Tractor Co.
Las Vegas.....James Cashman Co.

NEW MEXICO
Albuquerque.....R. L. Harrison Co., Inc.

OREGON
Eugene.....Pape Bros., Inc.
Klamath Falls.....Crater Lake Machinery Co.
La Grande.....Inland Machinery Co.
Pendleton.....Empire Machinery Co.
Portland.....Halton Tractor Co.

UTAH
Salt Lake City.....Wheeler Machinery Co.

WASHINGTON
Seattle.....N. C. Machinery Co.
Northern Commercial Co.
Spokane.....Byrne Machinery Co.
Walla Walla.....Stone Machinery Co.
Wenatchee.....Columbia Tractor Co. of Wenatchee
Yakima.....Webb Tractor & Equipment Co.

WYOMING
Cheyenne.....Wortham Machinery Co.

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Atlas Copco, A.B. (Cont'd)

UTAH
Salt Lake City.....Atlas Copco Pacific, Inc.

WASHINGTON
Spokane.....Atlas Copco Pacific, Inc.

ATLAS POWDER CO. 1 Montgomery Street San Francisco 4, California

PRODUCTS: Explosives; Blasting Supplies.

District Manager

CALIFORNIA
San Francisco—1 Montgomery St.....J. M. Ellis

Factory Manager

Richmond—Giant District.....E. P. Taipale

Distributors

ARIZONA
Flagstaff.....Babbitt Bros. Trading Co.
Phoenix.....D. W. Jaquays & Co.

CALIFORNIA
Arcata.....Loggers & Mill Supply Co.
Big Pine.....Big Pine General Store
Fresno.....Stewart & Nuss, Inc.
Galt.....Wm. Fischer
Hanford.....Randolph Service
Hollister.....Brown & Chappell
Inyokern.....Bert James Store
Jackson.....Jackson Lumber Yard, Inc.
Lone Pine.....Hopkins Hardware Co.
Mariposa.....Emile J. Trabucco
Redding.....Lowry Equipment Co.
San Andreas.....Treat's General Store
San Rafael.....L. P. McNear
Santa Cruz.....Martley Hardware Co.
Santa Paula.....Watkins Hardware Co.
Shoshone.....Charles Brown
Sonora.....Hales & Symons, Inc.
Taft.....The Ford Alexander Corp.
Turlock.....D. W. Holveck
Vista.....Mason Metal & Supply Co.
Whittier.....The Ford Alexander Corp.
Woodlake.....Woodlake Hardware & Furniture Co.
Yreka.....Cooley & Pollard Hardware

COLORADO
Cripple Creek.....The Stanker Supply Co.

IDAHO
Boise.....The Sawtooth Co.
Hailey.....Francis Jones, Inc.

MONTANA
Butte.....W. P. Lavelle

NEVADA
Battle Mountain.....E. D. Swackhamer & Sons
Carson City.....George E. Meyers
Elko.....A. W. Hesson Co.
Ely.....Hall's Hardware
Fallon.....Western Powder Co.
Loveland.....Pitt Mill & Elevator Co.
Mina.....K. D. Marakas
Pioche.....Western Powder Co.
Reno.....Contractors Equipment Rental Co.
Tonopah.....Western Powder Co.
Virginia City.....Western Powder Co.
Winnemucca.....Western Powder Co.

NEW MEXICO
Albuquerque.....New Mexico Equipment Co.
Farmington.....Bud Walter, Inc.
Hobbs.....American Powder Co.
Socorro.....B & M Feed Store
Waterflow.....Wheeler Trading Post

OREGON
Clackamas.....Oregon-Washington Powder Co.
Coos Bay.....Coos Bay Supply Co.
Cottage Grove.....Pioneer Hardware Co.
Medford.....Bruce Bauer Lumber Co.
Roseburg.....Flegel Supply Co.

UTAH
Moab.....Bud Walter, Inc.
Salt Lake City.....Western Powder Co.

WASHINGTON
Marshall.....Oriard Powder Co.
Raymond.....Dennis Company
Sedro Valley.....Mt. Baker Hardware
Shelton.....Lumberman's Mercantile
Yakima.....Webb Tractor & Equipment Co.

WYOMING
Casper.....Union Supply Co.

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**C. I. T. provides experienced financing for
Distributors and Contractors**

AUSTIN-WESTERN

Construction Equipment Div.
Baldwin-Lima-Hamilton Corp.
601 North Farnsworth Avenue
Aurora, Illinois

PRODUCTS: Power Graders; Road Rollers; Street Sweepers; Hydraulic Cranes.

District Managers

CALIFORNIA
Palo Alto, 4252 MacKay Dr. Fred Bourquin
COLORADO
Denver, 3295 S. Dexter Harold G. Downey
WASHINGTON
Spokane, W. 523-27th Ave. E. L. Kleckner

Distributors

ALASKA
Anchorage Airport Machinery Co.
ARIZONA
Phoenix Western Machinery Co.
CALIFORNIA
Los Angeles Smith-Booth-Usher Co.
San Francisco Edward R. Bacon Co.
COLORADO
Denver Macdonald Equipment Co.
IDAHO
Boise Engineering Sales Service, Inc.
MONTANA
Billings Hall-Perry Machinery Co.
Butte Hall-Perry Machinery Co.
Great Falls Hall-Perry Machinery Co.
Missoula Hall-Perry Machinery Co.
NEVADA
Reno Graid Equipment Co.
NEW MEXICO
Albuquerque N. C. Ribble Co.
OREGON
Portland Columbia Equipment Co.
UTAH
Salt Lake City Western Machinery Co.
WASHINGTON
Seattle Columbia Equipment Co.
Spokane Columbia Equipment Co.
WYOMING
Casper Keremi Tractor & Equipment Co.
Cheyenne Keremi Tractor & Equipment Co.

BADGER DIVISION

The Warner & Swasey Co.
5701 Carnegie Avenue
Cleveland 3, Ohio

PRODUCTS: Hydraulic Backhoes— $\frac{1}{8}$ to $\frac{1}{2}$ yard.

District Manager

CALIFORNIA
Los Angeles—3340 Leonis Blvd. Bob Bechtel

District Representatives

CALIFORNIA
Los Angeles—3340 Leonis Blvd. John Siebold
WASHINGTON
Mercer Island—5056 E. Shorewood Dr. T. Sitter
Seattle—226 S. 197th St. J. Ferguson

Distributors

CALIFORNIA
Berkeley West Coast Engine & Equipment Co.
Los Angeles Calweld, Inc.
COLORADO
Denver Liberty Trucks & Parts Co.
IDAHO
Boise Arnold Machinery Co.
MONTANA
Billings Western Construction Equipment Co.
Great Falls Western Construction Equipment Co.
OREGON
Portland Columbia Equipment Co.
UTAH
Salt Lake City Arnold Machinery Co.
WASHINGTON
Seattle Columbia Equipment Co.
Spokane Columbia Equipment Co.

BALDWIN-LIMA-HAMILTON CORP.
South Main Street
Lima, Ohio

District Managers

CALIFORNIA
La Mirada—14120 E. Rostcrans T. A. Griffin
(Continued in next column)

Baldwin-Lima-Hamilton Corp. (Cont'd)

Burlingame—1452 Drake Ave. Ralph Rodgers
Assistant District Manager

WASHINGTON
Seattle—1932 First Avenue South W. D. Haley

Distributors

PRODUCTS: LIMA Shovels, Cranes, Draglines, Pull Shovels; Truck Cranes.
ALASKA
Anchorage Evans Engine & Equipment Company
ARIZONA
Phoenix Western Machinery Co.
Tucson Western Machinery Co.
CALIFORNIA
Eureka McGaraghan Supply Co.
Los Angeles Smith-Booth-Usher Co.
Oakland Bay Cities Equipment, Inc.
Redding Shasta Truck & Equipment Sales
San Jose Bay Cities Equipment, Inc.
COLORADO
Denver Faris-Moritz Equipment Co.
IDAHO
Boise Feenaughty Machinery Co.
NEVADA
Reno Reno Equipment Sales Co.
NEW MEXICO
Albuquerque N. C. Ribble Co.
OREGON
Portland Feenaughty Machinery Co.
UTAH
Salt Lake City Western Machinery Co.
WASHINGTON
Seattle Evans Engine & Equipment Co.
Spokane Modern Machinery Co.

Distributors

PRODUCTS: Lima Austin-Western Crushing, Screening and Washing Equipment.
ARIZONA
Phoenix Western Machinery Co.
Tucson Western Machinery Co.
CALIFORNIA
Los Angeles Smith-Booth Usher Co.
San Diego Smith-Booth Usher Co.
San Francisco Edward R. Bacon Co.
Western Machinery Co.
COLORADO
Denver Macdonald Equipment Co.
IDAHO
Boise Engineering Sales Service, Inc.
Idaho Falls Western Machinery Co.
MONTANA
Billings Hall-Perry Machinery Co.
Butte Hall-Perry Machinery Co.
Great Falls Hall-Perry Machinery Co.
Missoula Hall-Perry Machinery Co.
NEVADA
Reno Graid Equipment Company
NEW MEXICO
Albuquerque N. C. Ribble
OREGON
Portland Columbia Equipment Co.
UTAH
Salt Lake City Western Machinery Co.
WASHINGTON
Seattle Columbia Equipment Co.
Spokane Columbia Equipment Co.
WYOMING
Casper Keremi Tractor & Equipment Co.
Cheyenne Keremi Tractor & Equipment Co.

Distributors

PRODUCTS: LIMA Roadpacker Vibratory Compactor.
ALASKA
Anchorage Evans Engine & Equipment Co.
ARIZONA
Phoenix Western Machinery Co.
Tucson Western Machinery Co.
CALIFORNIA
Los Angeles Smith-Booth-Usher Company
Oakland Bay Cities Equipment, Inc.
Redding Shasta Truck & Equipment Sales
San Jose Bay Cities Equipment, Inc.
COLORADO
Denver Faris-Moritz Equipment Co.
IDAHO
Boise Feenaughty Machinery Co.
NEVADA
Reno Reno Equipment Sales Co.
NEW MEXICO
Albuquerque N. C. Ribble Co.
(Continued in next column)

Baldwin-Lima-Hamilton Corp. (Cont'd)

OREGON
Portland Feenaughty Machinery Co.
UTAH
Salt Lake City Western Machinery Co.
WASHINGTON
Seattle Evans Engine & Equipment Co.
Spokane Modern Machinery Co.

BARBER-GREENE CO.
400 N. Highland Avenue
Aurora, Illinois

PRODUCTS: Asphalt Mixing Plants; Asphalt Finishers; Permanent and Portable Conveyors; Aggregate, Coal and Snow Loaders; Car Unloaders; Ditchers.

Factory Branches

CALIFORNIA
San Mateo—2191 S. El Camino Real. M. C. Ham
Area Sales Manager
H. E. Jackson, Area Service Manager
E. L. Benson, District Mgr., Conveyor Sales

Distributors

ARIZONA
Phoenix Road Machinery Co.
CALIFORNIA
Los Angeles Santa Fe Equipment Co., Inc.
San Francisco Coast Equipment Co.
COLORADO
Denver Booth-Rouse Equipment Co.
IDAHO
Boise Engineering Sales Service, Inc.
MONTANA
Billings Western Construction Eqp't. Co.
NEVADA
Reno Sierra Machinery Co.
NEW MEXICO
Albuquerque Contractors Equipment & Supply Co.
OREGON
Portland Columbia Equipment Co.
UTAH
Salt Lake City Lang Construction Equipment Co.
The Mine & Smelter Supply Co.
WASHINGTON
Seattle The Carrington Company
WYOMING
Cheyenne Keremi Tractor & Equipment Co.

BARCO MANUFACTURING CO.
500 N. Hough Street
Barrington, Illinois

PRODUCTS: Rammers for earth compaction; Portable Gasoline Hammers; Portable Gasoline Rock Drills; Vibra-Tamp for granular soil compaction and asphaltic paving.

Factory Representative

CALIFORNIA
Santa Monica, 718 16th St. C. E. Allen

Distributors

ALASKA
(Seattle) The Carrington Co.
ARIZONA
Phoenix Copper State Tractor
CALIFORNIA
Los Angeles Fornaciari Co.
San Francisco C. H. Bull Co.
COLORADO
Denver Booth-Rouse Equipment Co.
MONTANA
Billings Great Northern Tool & Supply Co.
NEW MEXICO
(El Paso) Francis Wagner Co.
OREGON
Portland Contractors Equipment Co.
UTAH
Salt Lake City Arnold Machinery Co.
WASHINGTON
Seattle Sahberg Equipment, Inc.

BARNARD & LEAS MANUFACTURING CO., INC.
CONSTRUCTION MACHINERY
DIVISION

1200 12th Street Southwest
Cedar Rapids, Iowa

PRODUCTS: Elevating Grader Attachments for Gallon Graders.
Distributed through GALION Distributors.

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
Equitable Building, Portland

JARNES MANUFACTURING CO.

651 North Main Street
Mansfield, Ohio

PRODUCTS: Self-Priming Pumps; Hi-Pressure Pumps;
Fire Pumps; Power Take-Off Pumps for
trucks and tractors; Jetting Pumps; Pe-
troleum Pumps.

Factory Branch

CALIFORNIA
Oakland, 680 Hegenberger Rd...Wm. Stillwell, Mgr.

Factory Representatives

CALIFORNIA
Los Angeles, 1726 Maltman Ave...Harold Feldstein
WASHINGTON
Seattle, 809A Terminal...Wm. A. Matzke, Jr.
Seattle Bldg.

Distributors

ALASKA
Anchorage...Craig Taylor Equipment & Supply Co.
ARIZONA
Phoenix...O. S. Stapley Co.
Submersible Pump Co.

CALIFORNIA
Berkeley...Central Equipment Co.
Eureka...Learner-Eureka, Inc.
Fresno...Fresno Pump & Supply Co.
Los Angeles...Larson Equipment Co.
Oakland...Hilco Industrial Supply
Redding...Lowry Equipment Co.
Sacramento...Central Equipment Co.
San Francisco...The Rix Co., Inc.

IDAHO
Boise...Western Equipment Co.

OREGON
Klamath Falls...Moty & Van Dyke
Portland...Mitchell, Lewis & Staver
R. M. Wade & Co.

WASHINGTON
Seattle...Cascade Machinery Co.
Dagg Equipment Co.
Star Machinery Co.
R. M. Wade & Co.

Spokane...Star Machinery Co.
Wenatchee...Tacoma Plumbing Supply Co.
Yakima...Rankin Equipment Co.

ASALT ROCK CO., INC.

8th and River Streets
Napa, California

PRODUCTS: Expanded Shale Aggregate; Lightweight
Concrete Masonry Units; Precast and
Prestressed Concrete Products—Floor Slabs,
Wall Panels, Double Tee Floor and Roof
Slabs, Beams, Columns, Channel Slabs,
Prestressed Bridge Members and Bleach-
ers; Asphalt Mixes; Rock for Bank Pro-
tection, Levee Repair and Deep Water Jet-
ties; Crushed Rock for Base and Filter
Material; Concrete Aggregate for Ready
Mix.

DISTRIBUTION IN NORTHERN CALIFORNIA ONLY

BAUGHMAN MANUFACTURING CO., INC.

158 Shipman Road
Jerseyville 3, Illinois

PRODUCTS: Portable and Stationary Belt Conveyors;
Portable and Stationary Screw Conveyors;
Under-track Conveyors; Over-track Con-
veyors; Salt-Sand-Chloride and Cinder
Spreaders, tailgate or truck mounted; Bulk
Cement Bodies, truck or trailer mounted;
Hopper Bottom Transport Trailers; Bulk
Material Truck or Transport Trailers.

Distributors

ARIZONA
Marana...Marana Equipment, Inc.
Phoenix...Gwerin Implement Co.
Western Machinery Co.

CALIFORNIA
Lancaster...Robertson Implement Co.
Los Angeles...Hurt Conveyor Co.
Modesto...Hengst & Curran
Oakland...MHI Engineering & Machinery Co.
Riverside...Hudson Sales Co.
San Leandro...Fabricated Metals, Inc.
Turlock...Lakeside Industries

COLORADO
Denver...Edward F. Taylor Machinery Co.
Western Machinery Co.

Greeley...Ellis & Capp Equipment Co.

(Continued in next column)

Baughman Manufacturing Co., Inc.

(Cont'd)

IDAHO
Boise...Starline Equipment Co.
MONTANA
Billings...Industrial Equipment Co.
Great Falls...Normont Equipment Co.
Kalispell...Treasure State Equipment Co.

NEW MEXICO
Albuquerque...Construction Machinery Co.

OREGON
Amity...Burlingham-Meeker Lime Co.
Portland...Douglas Hood Co.

UTAH
Salt Lake City...W. H. Pingree Co.
Williamson Body & Equipment Co.

WASHINGTON
Seattle...Air-Mac, Inc. of Washington
Temco, Inc.

WYOMING
Casper...Studer Tractor & Equipment Co.

BAY CITY SHOVELS, INC.

Bay City, Michigan

PRODUCTS: Power Shovels and Cranes; Clamshell Hoes;
Draglines.

Distributors

ARIZONA
Phoenix...Western Machinery Co.

CALIFORNIA
Los Angeles...Pneumatic Machinery Co.
San Francisco...Robinson Equipment Co.

COLORADO
Denver...Ray Corson Machinery Co.

IDAHO
Boise...Feenaughty Machinery Co.

MONTANA
Helena...Rock Hand & Co.

OREGON
Portland...Feenaughty Machinery Co.

UTAH
Salt Lake City...Foulger Equipment Co.

WASHINGTON
Seattle...Feenaughty Machinery Co.
Spokane...Feenaughty Machinery Co.

BEACON MACHINERY, INC.

P.O. Box 188
East St. Louis 2, Illinois

PRODUCTS: Dock Ramps (mechanical and hydraulic);
Lift Tables; Automatic & Semi-Automatic
Palletizers & DePalletizers; Compression
Devices; Cantilever Bridge Lifts; Pallet
Stackers & Dispensers; Portable Elevators.

Distributors

ARIZONA
Phoenix...DeNaumann Lift Trucks, Inc.

CALIFORNIA
No. Hollywood...Magesco
San Francisco...Ira J. Perin

COLORADO
Denver...Case Material Handling Equipment
Landes, Zackery & Peterson

OREGON
Portland...F. E. Bennett

UTAH
Salt Lake City...Equipment Supply Co.

WASHINGTON
Seattle...Material Handling Equipment Co.

BEAVER-ADVANCE CORPORATION

P.O. Box 792
Ellwood City, Pennsylvania

PRODUCTS: Scaffold; Steel Shoring Scaffold; Post
Shores; Painter Scaffold; Pipe & Clamp
Scaffold; Mason's Jacks; Plasterer's Jacks;
Material Hoisting Towers.

Factory Branch Manager

CALIFORNIA
Redwood City...1115 Chestnut St...Leo B. Manning

District Manager

CALIFORNIA
San Mateo...2295 Cobblehill Pl...R. B. Angell

(Continued in next column)

Beaver-Advance Corporation (Cont'd)**Distributors**

CALIFORNIA
Glendale...Phatteplace Scaffolding Co.
W. Sacramento...Jomaco Scaffolding, Inc.

IDAHO
Boise...Carl Burt Equipment Co.
Idaho Falls...M. A. Carlson Equipment Co.

OREGON
Portland...Allied Steel Scaffold Co.

WASHINGTON
Seattle...Northwest Scaffold & Equipment Co.

BEEBE BROS.

2724 Sixth Ave. So.
Seattle 4, Washington

PRODUCTS: Hand Hoists, Winches and Electric Hoists.

BE-GE MANUFACTURING CO.

P.O. Box 67, Leavesley Road
Gilroy, California

PRODUCTS: Cylinders, Pumps, Valves, Power Control
Units (all hydraulic); Hydraulic Carrying
Scrapers for crawler tractors and for
Wagner four-wheel drive tractors; Hydraul-
ic Scraper Planes; Contractors' Drag
Scrapers (cable or hydraulically con-
trolled); Hydraulic Carrying Scrapers for
wheel tractors.

Distributors

See your local tractor distributor.

**BETHLEHEM PACIFIC COAST
STEEL CORP.**

20th & Illinois Streets
San Francisco 19, California

PRODUCTS: Drill Steel; Fasteners; Fabricated Struc-
tural Steel; Sheet Piling; Wire Rope; Rein-
forcing Steel; H-Piling.

Sales Offices

LOS ANGELES
6000 S. Boyle Ave.
Samuel B. Flora...Manager of Sales

PHOENIX
213 N. First Ave...T. E. Neff, Manager of Sales

PORTLAND
1010 SW 14th Ave...L. S. Kuhn, Manager of Sales

SALT LAKE CITY
455 E. 4th St...L. B. Gillette, Manager of Sales

SAN FRANCISCO
20th & Illinois...C. D. Howe, Manager of Sales

SEATTLE
3651 E. Marginal Way
J. G. White, Jr...Manager of Sales

SPOKANE
W. 725 Sprague St.
M. P. Schraner...Manager of Sales

Sales Representative

HONOLULU
State Savings & Loan Bldg...J. F. Moody

**THE BLACK & DECKER
MANUFACTURING CO.**

Towson 4, Maryland

PRODUCTS: Portable Electric Tools—Screw Drivers,
Impact Wrench, Nibblers, Drills, Sanders,
Polishers, Shears, Vacuum Cleaners; Elec-
tric Bench and Portable Grinders; Mag-
netic Drill Press; Tappans.

Regional Manager

CALIFORNIA
Los Angeles—2432 S. Broadway...L. C. Kaefer

Factory Branch Managers

CALIFORNIA
Los Angeles—2432 S. Broadway...R. E. Stone, Jr.
San Francisco—4343 3rd Street...Paul Pounds

COLORADO
Denver—1010 Bannock St...R. Cooper

OREGON
Portland—1640 N. W. Johnson...H. L. Roller

WASHINGTON
Seattle—434 8th Ave. N...J. R. Anderson

Spokane—N. 2706 Hemlock...H. L. Roller

**C. I. T.'s Pay-As-You-Depreciate Plan provides
long term financing for Contractors**

AUSTIN-WESTERN

Construction Equipment Div.
Baldwin-Lima-Hamilton Corp.
601 North Farnsworth Avenue
Aurora, Illinois

PRODUCTS: Power Graders; Road Rollers; Street Sweepers; Hydraulic Cranes.

District Managers

CALIFORNIA
Palo Alto, 4252 MacKay Dr. Fred Bourquin
COLORADO
Denver, 3295 S. Dexter. Harold G. Downey
WASHINGTON
Spokane, W. 523-27th Ave. E. L. Kleckner

Distributors

ALASKA
Anchorage. Airport Machinery Co.
ARIZONA
Phoenix. Western Machinery Co.
CALIFORNIA
Los Angeles. Smith-Booth-Usher Co.
San Francisco. Edward R. Bacon Co.
COLORADO
Denver. Macdonald Equipment Co.
IDAHO
Boise. Engineering Sales Service, Inc.
MONTANA
Billings. Hall-Perry Machinery Co.
Butte. Hall-Perry Machinery Co.
Great Falls. Hall-Perry Machinery Co.
Missoula. Hall-Perry Machinery Co.
NEVADA
Reno. Graid Equipment Co.
NEW MEXICO
Albuquerque. N. C. Ribble Co.
OREGON
Portland. Columbia Equipment Co.
UTAH
Salt Lake City. Western Machinery Co.
WASHINGTON
Seattle. Columbia Equipment Co.
Spokane. Columbia Equipment Co.
WYOMING
Casper. Keremi Tractor & Equipment Co.
Cheyenne. Keremi Tractor & Equipment Co.

BADGER DIVISION

The Warner & Swasey Co.
5701 Carnegie Avenue
Cleveland 3, Ohio

PRODUCTS: Hydraulic Backhoes— $\frac{1}{8}$ to $\frac{1}{2}$ yard.

District Manager

CALIFORNIA
Los Angeles—3340 Leonis Blvd. Bob Bechtel

District Representatives

CALIFORNIA
Los Angeles—3340 Leonis Blvd. John Siebold
WASHINGTON
Mercer Island—5056 E. Shorewood Dr. T. Sitter
Seattle—226 S 197th St. J. Ferguson

Distributors

CALIFORNIA
Berkeley. West Coast Engine & Equipment Co.
Los Angeles. Caldwell, Inc.
COLORADO
Denver. Liberty Trucks & Parts Co.
IDAHO
Boise. Arnold Machinery Co.
MONTANA
Billings. Western Construction Equipment Co.
Great Falls. Western Construction Equipment Co.
OREGON
Portland. Columbia Equipment Co.
UTAH
Salt Lake City. Arnold Machinery Co.
WASHINGTON
Seattle. Columbia Equipment Co.
Spokane. Columbia Equipment Co.

BALDWIN-LIMA-HAMILTON CORP.

South Main Street
Lima, Ohio

District Managers

CALIFORNIA
La Mirada—14120 E. Rosecrans. T. A. Griffin
(Continued in next column)

Baldwin-Lima-Hamilton Corp. (Cont'd)

Burlingame—1452 Drake Ave. Ralph Rodgers
Assistant District Manager

WASHINGTON
Seattle—1932 First Avenue South. W. D. Haley

Distributors

PRODUCTS: LIMA Shovels, Cranes, Draglines, Pull Shovels; Truck Cranes.
ALASKA
Anchorage. Evans Engine & Equipment Company
ARIZONA
Phoenix. Western Machinery Co.
Tucson. Western Machinery Co.
CALIFORNIA
Eureka. McGaraghan Supply Co.
Los Angeles. Smith-Booth-Usher Co.
Oakland. Bay Cities Equipment, Inc.
Redding. Shasta Truck & Equipment Sales
San Jose. Bay Cities Equipment, Inc.
COLORADO
Denver. Faris-Moritz Equipment Co.
IDAHO
Boise. Feenaughty Machinery Co.
NEVADA
Reno. Reno Equipment Sales Co.
NEW MEXICO
Albuquerque. N. C. Ribble Co.
OREGON
Portland. Feenaughty Machinery Co.
UTAH
Salt Lake City. Western Machinery Co.
WASHINGTON
Seattle. Evans Engine & Equipment Co.
Spokane. Modern Machinery Co.

Distributors

PRODUCTS: Lima Austin-Western Crushing, Screening and Washing Equipment.
ARIZONA
Phoenix. Western Machinery Co.
Tucson. Western Machinery Co.
CALIFORNIA
Los Angeles. Smith-Booth-Usher Co.
San Diego. Smith-Booth-Usher Co.
San Francisco. Edward R. Bacon Co.
Western Machinery Co.
COLORADO
Denver. Macdonald Equipment Co.
IDAHO
Boise. Engineering Sales Service, Inc.
Idaho Falls. Western Machinery Co.
MONTANA
Billings. Hall-Perry Machinery Co.
Butte. Hall-Perry Machinery Co.
Great Falls. Hall-Perry Machinery Co.
Missoula. Hall-Perry Machinery Co.
NEVADA
Reno. Graid Equipment Company
NEW MEXICO
Albuquerque. N. C. Ribble
OREGON
Portland. Columbia Equipment Co.
UTAH
Salt Lake City. Western Machinery Co.
WASHINGTON
Seattle. Columbia Equipment Co.
Spokane. Columbia Equipment Co.
WYOMING
Casper. Keremi Tractor & Equipment Co.
Cheyenne. Keremi Tractor & Equipment Co.

Distributors

PRODUCTS: LIMA Roadpacker Vibratory Compactor.
ALASKA
Anchorage. Evans Engine & Equipment Co.
ARIZONA
Phoenix. Western Machinery Co.
Tucson. Western Machinery Co.
CALIFORNIA
Los Angeles. Smith-Booth-Usher Company
Oakland. Bay Cities Equipment, Inc.
Redding. Shasta Truck & Equipment Sales
San Jose. Bay Cities Equipment, Inc.
COLORADO
Denver. Faris-Moritz Equipment Co.
IDAHO
Boise. Feenaughty Machinery Co.
NEVADA
Reno. Reno Equipment Sales Co.
NEW MEXICO
Albuquerque. N. C. Ribble Co.
(Continued in next column)

Baldwin-Lima-Hamilton Corp. (Cont'd)

OREGON
Portland. Feenaughty Machinery Co.
UTAH
Salt Lake City. Western Machinery Co.
WASHINGTON
Seattle. Evans Engine & Equipment Co.
Spokane. Modern Machinery Co.

BARBER-GREENE CO.

400 N. Highland Avenue
Aurora, Illinois

PRODUCTS: Asphalt Mixing Plants; Asphalt Finishers; Permanent and Portable Conveyors; Aggregators; Coal and Snow Loaders; Car Unloaders; Ditchers.

Factory Branches

CALIFORNIA
San Mateo—2191 S. El Camino Real. M. C. Ham
Area Sales Manager
H. E. Jackson, Area Service Manager
E. L. Benson, District Mgr., Conveyor Sales

Distributors

ARIZONA
Phoenix. Road Machinery Co.
CALIFORNIA
Los Angeles. Santa Fe Equipment Co., Inc.
San Francisco. Coast Equipment Co.
COLORADO
Denver. Booth-Rouse Equipment Co.
IDAHO
Boise. Engineering Sales Service, Inc.
MONTANA
Billings. Western Construction Eqt. Co.
NEVADA
Reno. Sierra Machinery Co.
NEW MEXICO
Albuquerque. Contractors Equipment & Supply Co.
OREGON
Portland. Columbia Equipment Co.
UTAH
Salt Lake City. Lang Construction Equipment Co.
The Mine & Smelter Supply Co.
WASHINGTON
Seattle. The Carrington Company
WYOMING
Cheyenne. Keremi Tractor & Equipment Co.

BARCO MANUFACTURING CO.

500 N. Hough Street
Barrington, Illinois

PRODUCTS: Rammers for earth compaction; Portable Gasoline Hammers; Portable Gasoline Rock Drills; Vibra-Tamp for granular soil compaction and asphaltic paving.

Factory Representative

CALIFORNIA
Santa Monica, 718 16th St. C. E. Allen

Distributors

ALASKA
(Seattle). The Carrington Co.
ARIZONA
Phoenix. Copper State Tractor
CALIFORNIA
Los Angeles. Fornaciari Co.
San Francisco. C. H. Bull Co.
COLORADO
Denver. Booth-Rouse Equipment Co.
MONTANA
Billings. Great Northern Tool & Supply Co.
NEW MEXICO
(El Paso). Francis Wagner Co.
OREGON
Portland. Contractors Equipment Co.
UTAH
Salt Lake City. Arnold Machinery Co.
WASHINGTON
Seattle. Sahlberg Equipment, Inc.

BARNARD & LEAS MANUFACTURING CO., INC.

CONSTRUCTION MACHINERY
DIVISION

1200 12th Street Southwest
Cedar Rapids, Iowa

PRODUCTS: Elevating Grader Attachments for Galion Graders.
Distributed through GALION Distributors.

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
Equitable Building, Portland

BARNES MANUFACTURING CO.
 651 North Main Street
 Mansfield, Ohio

PRODUCTS: Self-Priming Pumps; Hi-Pressure Pumps; Fire Pumps; Power Take-Off Pumps for trucks and tractors; Jetting Pumps; Petroleum Pumps.

Factory Branch

CALIFORNIA
Oakland, 680 Hegenberger Rd...Wm. Stillwell, Mgr.

Factory Representatives

CALIFORNIA
Los Angeles, 1726 Maltman Ave...Harold Feldstein
WASHINGTON
Seattle, 809A Terminal...Wm. A. Matzke, Jr.
Sales Bldg.

Distributors

ALASKA
Anchorage...Craig Taylor Equipment & Supply Co.

ARIZONA
Phoenix...O. S. Stapley Co.
Submersible Pump Co.

CALIFORNIA
Berkeley...Central Equipment Co.
Eureka...Learner-Eureka, Inc.
Fresno...Fresno Pump & Supply Co.
Los Angeles...Larson Equipment Co.
Oakland...Hilco Industrial Supply
Redding...Lowry Equipment Co.
Sacramento...Central Equipment Co.
San Francisco...The Rix Co., Inc.

IDAHO
Boise...Western Equipment Co.

OREGON
Klamath Falls...Moty & Van Dyke
Portland...Mitchell, Lewis & Staver
R. M. Wade & Co.

WASHINGTON
Seattle...Cascade Machinery Co.
Dagg Equipment Co.
Star Machinery Co.
R. M. Wade & Co.
Spokane...Star Machinery Co.
Wenatchee...Tacoma Plumbing Supply Co.
Yakima...Rankin Equipment Co.

BASALT ROCK CO., INC.
 8th and River Streets
 Napa, California

PRODUCTS: Expanded Shale Aggregate; Lightweight Concrete Masonry Units; Precast and Prestressed Concrete Products—Floor Slabs, Wall Panels, Double Tee Floor and Roof Slabs, Beams, Columns, Channel Slabs, Prestressed Bridge Members and Bleachers; Asphalt Mixes; Rock for Bank Protection, Levee Repair and Deep Water Jet-ties; Crushed Rock for Base and Filter Material; Concrete Aggregate for Ready Mix.

DISTRIBUTION IN NORTHERN CALIFORNIA ONLY

BAUGHMAN MANUFACTURING CO., INC.

158 Shipman Road
 Jerseyville 3, Illinois

PRODUCTS: Portable and Stationary Belt Conveyors; Portable and Stationary Screw Conveyors; Under-track Conveyors; Over-track Conveyors; Salt-Sand-Chloride and Cinder Spreaders, tailgate or truck mounted; Bulk Cement Bodies, truck or trailer mounted; Hopper Bottom Transport Trailers; Bulk Material Truck or Transport Trailers.

Distributors

ARIZONA
Marana...Marana Equipment, Inc.
Phoenix...Guerin Implement Co.
Western Machinery Co.

CALIFORNIA
Lancaster...Robertson Implement Co.
Los Angeles...Hurt Conveyor Co.
Modesto...Hengst & Curran
Oakland...Mill Engineering & Machinery Co.
Riverside...Hudson Sales Co.
San Leandro...Fabricated Metals, Inc.
Turlock...Lakeside Industries

COLORADO
Denver...Edward F. Taylor Machinery Co.
Western Machinery Co.
Greeley...Ellis & Capp Equipment Co.

(Continued in next column)

Baughman Manufacturing Co., Inc.
 (Cont'd)

IDAHO
Boise...Starline Equipment Co.
MONTANA
Billings...Industrial Equipment Co.
Great Falls...Normont Equipment Co.
Kalispell...Treasure State Equipment Co.
NEW MEXICO
Albuquerque...Construction Machinery Co.
OREGON
Amity...Burlingham-Meeker Lime Co.
Portland...Douglas Hood Co.
UTAH
Salt Lake City...W. H. Pingree Co.
Williamson Body & Equipment Co.
WASHINGTON
Seattle...Air-Mac, Inc. of Washington
Temco, Inc.
WYOMING
Casper...Studer Tractor & Equipment Co.

BAY CITY SHOVELS, INC.
 Bay City, Michigan

PRODUCTS: Power Shovels and Cranes; Clamshell Hoes; Draglines.

Distributors

ARIZONA
Phoenix...Western Machinery Co.
CALIFORNIA
Los Angeles...Pneumatic Machinery Co.
San Francisco...Robinson Equipment Co.
COLORADO
Denver...Ray Corson Machinery Co.
IDAHO
Boise...Feenaughty Machinery Co.
MONTANA
Helena...Rock Hand & Co.
OREGON
Portland...Feenaughty Machinery Co.
UTAH
Salt Lake City...Foulger Equipment Co.
WASHINGTON
Seattle...Feenaughty Machinery Co.
Spokane...Feenaughty Machinery Co.

BEACON MACHINERY, INC.
 P.O. Box 188
 East St. Louis 2, Illinois

PRODUCTS: Dock Ramps (mechanical and hydraulic); Lift Tables; Automatic & Semi-Automatic Palletizers & DePalletizers; Compression Devices; Cantilever Bridge Lifts; Pallet Stackers & Dispensers; Portable Elevators.

Distributors

ARIZONA
Phoenix...DeNaumann Lift Trucks, Inc.
CALIFORNIA
No. Hollywood...Magesco
San Francisco...Ira J. Perin
COLORADO
Denver...Case Material Handling Equipment
Landes, Zackery & Peterson
OREGON
Portland...F. E. Bennett
UTAH
Salt Lake City...Equipment Supply Co.
WASHINGTON
Seattle...Material Handling Equipment Co.

BEAVER-ADVANCE CORPORATION
 P.O. Box 792
 Ellwood City, Pennsylvania

PRODUCTS: Scaffold; Steel Shoring Scaffold; Post Shores; Painter Scaffold; Pipe & Clamp Scaffold; Mason's Jacks; Plasterer's Jacks; Material Hoisting Towers.

Factory Branch Manager

CALIFORNIA
Redwood City—1115 Chestnut St...Leo B. Manning

District Manager

CALIFORNIA
San Mateo—2295 Cobblehill Pl...R. B. Angell
(Continued in next column)

Beaver-Advance Corporation (Cont'd)
Distributors

CALIFORNIA
Glendale...Phetteplace Scaffolding Co.
W. Sacramento...Jomaco Scaffolding, Inc.
IDAHO
Boise...Carl Burt Equipment Co.
Idaho Falls...M. A. Carlson Equipment Co.
OREGON
Portland...Allied Steel Scaffold Co.
WASHINGTON
Seattle...Northwest Scaffold & Equipment Co.

BEEBE BROS.
 2724 Sixth Ave. So.
 Seattle 4, Washington

PRODUCTS: Hand Hoists, Winches and Electric Hoists.

BE-GE MANUFACTURING CO.
 P.O. Box 67, Leaveney Road
 Gilroy, California

PRODUCTS: Cylinders, Pumps, Valves, Power Control Units (all hydraulic); Hydraulic Carrying Scrapers for crawler tractors and for Wagner four-wheel drive tractors; Hydraulic Scraper Planes; Contractors' Drag Scrapers (cable or hydraulically controlled); Hydraulic Carrying Scrapers for wheel tractors.

Distributors

See your local tractor distributor.

BETHLEHEM PACIFIC COAST STEEL CORP.
 20th & Illinois Streets
 San Francisco 19, California

PRODUCTS: Drill Steel; Fasteners; Fabricated Structural Steel; Sheet Piling; Wire Rope; Reinforcing Steel; H-Piling.

Sales Offices

LOS ANGELES
6000 S. Boyle Ave.
Samuel B. Flora...Manager of Sales
PHOENIX
213 N. First Ave...T. E. Neff, Manager of Sales
PORTLAND
1010 SW 14th Ave...L. S. Kuhn, Manager of Sales
SALT LAKE CITY
455 E. 4th St...L. B. Gillette, Manager of Sales
SAN FRANCISCO
20th & Illinois...C. D. Howe, Manager of Sales
SEATTLE
3651 E. Marginal Way
J. G. White, Jr...Manager of Sales
SPOKANE
W. 725 Sprague St.
M. P. Schraner...Manager of Sales

Sales Representative

HONOLULU
State Savings & Loan Bldg...J. F. Moody

THE BLACK & DECKER MANUFACTURING CO.
 Towson 4, Maryland

PRODUCTS: Portable Electric Tools—Screw Drivers, Impact Wrench, Nibblers, Drills, Sanders, Polishers, Shears, Vacuum Cleaners; Electric Bench and Portable Grinders; Magnetic Drill Press; Tagguns.

Regional Manager

CALIFORNIA
Los Angeles—2432 S. Broadway...L. C. Kaefel

Factory Branch Managers

CALIFORNIA
Los Angeles—2432 S. Broadway...R. E. Stone, Jr.
San Francisco—4343 3rd Street...Paul Pounds
COLORADO
Denver—1010 Bannock St...R. Cooper
OREGON
Portland—1640 N. W. Johnson...H. L. Roller
WASHINGTON
Seattle—434 8th Ave. N...J. R. Anderson
Spokane—N. 2706 Hemlock...H. L. Roller

C. I. T.'s Pay-As-You-Depreciate Plan provides long term financing for Contractors

Broderick & Bascom Rope Co. (Cont'd)

OREGON
Arlington..... Empire Machinery Co.
Athena..... Empire Machinery Co.
Baker..... Basche-Sage Hardware Co.
Bend..... Moty & Van Dyke, Inc.
Coquille..... Enlund Equipment Co.
Eugene..... Eugene Equipment Co.
Gold Beach..... Enlund Equipment Co.
Heppner..... Empire Machinery Co.
John Day..... Moty & Van Dyke, Inc.
Klamath Falls..... Moty & Van Dyke, Inc.
Lebanon..... Moty & Van Dyke, Inc.
Medford..... Hubbard Bros., Inc.
Ontario..... Western Equipment Co.
Pendleton..... Empire Machinery Co.
Portland..... Wood Tractor Co.
Prineville..... Moty & Van Dyke, Inc.
Roseburg..... Industrial Supply Co.
The Dalles..... Empire Machinery Co.
Toledo..... Coast Equipment Co.

UTAH
Salt Lake City..... Mine & Smelter Supply Co.
Wheeler Machinery Co.

WASHINGTON

Aberdeen..... I. G. Isaacson Co.
Bellingham..... Industrial Supply Co.
Dayton..... Stone Machinery Co.
Ellensburg..... Webb Tractor & Equipment Co.
Everett..... Greenfields Industrial Supply Co.
Ritzville..... Byrne Machinery Co.
Spokane..... Byrne Machinery Co.
Tacoma..... Murphy-Campbell Co.
Wenatchee..... Mid-State Truck & Machinery Co.
Yakima..... Webb Tractor & Equipment Co.

BROS, INCORPORATED

1057 Tenth Avenue SE
Minneapolis 14, Minnesota

PRODUCTS: Compaction Equipment; Rubber Tired Rollers; Sheepfoot Tampers; Vibrating Rollers; Hot Oil Heaters; Steam Generators; Road Mixers and Soil Stabilizers; Rotary Snow Plows; Roto-Mixers; Preparators, material reducers; Vibra Pactors.

District Representatives

CALIFORNIA
Menlo Park—205 Golden Oak Dr..... Dudley Hall

COLORADO
Denver—417 Jackson St..... O. G. Hollimon

Distributors

ALASKA
(Seattle)..... Yukon Equipment Co.

ARIZONA
Phoenix..... Arizona Equipment Sales

CALIFORNIA
Los Angeles..... The Crook Co.
Standard Steel Corp.
Oakland..... Blakemore Equipment Co.

IDAHO
Boise..... Western Equipment Co.

MONTANA
Billings..... Western Construction Equipment Co.
Great Falls..... Western Construction Equipment Co.

NEVADA
Reno..... Pioneer Equipment Co.

NEW MEXICO
Albuquerque..... Harry Cornelius Co.

OREGON
Eugene..... Loggers & Contractors Machinery Co.
Portland..... Loggers & Contractors Machinery Co.

UTAH
Salt Lake City..... Rocky Mountain Machinery Co.

WASHINGTON
Seattle..... Totem Equipment Co.
Spokane..... Western Machinery Co.

WYOMING
Casper..... Keremi Tractor & Equipment Co.
Cheyenne..... Keremi Tractor & Equipment Co.

BROWNING MANUFACTURING CO.

111 Humble Avenue
San Antonio 6, Texas

PRODUCTS: Sheepfoot Rollers; Pneumatic Tired Rollers—Tow Type; Rock Busters; Self-propelled Pneumatic Tired Rollers; Vibratory Rollers; 50-ton Compactors.

Distributors

ARIZONA
Phoenix..... Min-A-Con Equipment Co.

CALIFORNIA
La Puente..... Kyle Equipment Co.
Stockton..... Action Equipment Co.

(Continued in next column)

Browning Manufacturing Co. (Cont'd)

MONTANA
Billings..... Hall-Perry Machinery Co.
Butte..... Hall-Perry Machinery Co.
Great Falls..... Hall-Perry Machinery Co.
Missoula..... Hall-Perry Machinery Co.

NEW MEXICO
Albuquerque..... N. C. Ribble Co.

OREGON
Medford..... Cal-Ore Machinery Co.
Portland..... Wood Tractor Co.

BRUNNER & LAY OF LOS ANGELES, INC.
2425 East 37th Street
Los Angeles 58, California

PRODUCTS: Carbide Rok-Bits; Intra-Set Steel; Drill Steel Moll Points; Clay Spades; Paving Breaker Tools; Clay Digger and Chipping Hammer Tools.

Factory Branch Managers

CALIFORNIA
Sacramento, 7500 14th Ave..... Wayne Banks
San Francisco, 2266 Shafter..... Vern Terry

OREGON
Portland, 660 N. Tillamook..... Lloyd Rauw

WASHINGTON
Seattle, 2600 First Ave..... Dick Davis

Distributors

ARIZONA
Flagstaff..... Arizona Supply Co.
Phoenix..... Construction & Mining Supply Co.
Equipment Sales Co.
D. W. Jaquays
Lee Redman Equipment Co.
Shriver Machinery Co.
State Tractor & Equipment Co.
Prescott..... Arizona Mining & Supply Co.
Tucson..... Ed Holderness Supplies

CALIFORNIA
Bakersfield..... Inland Equipment Co.
Berkeley..... Central Equipment Co.
Escondido..... Webb Bros.
Fresno..... Edward R. Bacon Co.
Contractors Equipment & Supply
George M. Philpott Co.
Long Beach..... Long Beach Welders Supply Co.
Los Angeles..... Cook Bros.
Essick Manufacturing Co.
Mine & Mill Machinery Co.
Warnock Bancroft Equipment Co.
Nevada City..... Alpha Hardware Co.
Redding..... Paul Broscher Equipment Co.
Lowry Equipment Co.
Sacramento..... Edward R. Bacon Co.
Central Equipment Co.
George M. Philpott Co.
Western Traction Co.
San Bernardino..... H. P. Kingsley Co.
W. K. Equipment Co.
San Diego..... Construction & Machinery Co.
Gould Hardware & Machinery Co.
Kenton Equipment Co.
Kroeger Equipment Co.
Standard Iron & Supply Co.
San Francisco..... Edward R. Bacon Co.
Coast Equipment Co.
George M. Philpott Co.
Rix Co.
Terry Tools
Western Traction Co.
Santa Ana..... Orange County Equipment Co.

COLORADO
Denver..... Edward F. Taylor Co.
Pearce Drill Steel Shop
Power Equipment Co.
Western Machinery Co.
Edward F. Taylor Co.
S & M Supply Co.
Western Machinery Co.

NEVADA
Elko..... A & D Machinery Co.
Las Vegas..... Blystone Equipment Co.
Inland Service & Supply Co.
Reno..... Pioneer Equipment Co.
Sierra Machinery Co.

NEW MEXICO
Albuquerque..... Contractors Equipment Co.
Harry Cornelius Co.
R. L. Harrison
Lively Equipment Co.
N. C. Ribble Co.

UTAH
Salt Lake City..... Arnold Machinery Co.
Bogue Supply Co.
Western Machinery Co.

BRUNNER & LAY OF PORTLAND, INC.

660 N. Tillamook Street
Portland 12, Oregon

PRODUCTS: Carbide Rok Bits; Intra-Set Drill Steel; Drill Steel; Moll Points; Clay Spades; Paving Breaker Tools; Clay Digger and Chipping Hammer Tools.

Factory Branch Manager

WASHINGTON
Seattle—2600 1st Ave. at Vine..... Dick Davis

Distributors

IDAHO
Boise..... Engineering Sales & Service
Idaho Bit & Steel Co.
Intermountain Equipment Co.
Sawtooth Company
Western Bearings Co.
Western Equipment Co.
Idaho Falls..... Arnold Machinery Co.
Southern Idaho Equipment
Pocatello..... Intermountain Equipment Co.
Western Bearings Co.

MONTANA
Billings..... Seitz Machinery Co.
Western Construction & Equipment Co.
Butte..... Butte Machinery Co.
Hall-Perry Machinery Co.
Great Falls..... Hall-Perry Machinery Co.
Monty Machinery Co.
Helena..... Cald Engineering Works
Montana Powder & Equipment
Missoula..... Miller Machinery Co.

OREGON
Conville..... Enlund Equipment Co.
Coos Bay..... Coos Bay Supply Co.
Eugene..... Loggers & Contractors Mch. Co.
Klamath Falls..... Cascade Industrial Supply Co.
Klamath Powder & Equipment Co.
LaGrande..... Industrial Machinery & Supply
Medford..... Cal-Ore Machinery Co.
North Bend..... Oregon Pacific Co.
Pendleton..... Empire Machinery Co.
Portland..... Andersen Machinery Co.
Andrews & Andrews Machinery Co.
Balzer Machinery Co.
Clyde Equipment Co.
Contractors Equipment Co.
Lacey Supply Co.
Loggers & Contractors Machinery Co.
George M. Philpott Co.
Rogers Machinery Co.
Senter Tools Service
Reedsport..... Reedsport Logging Supply
Roseburg..... Flury Supply Co.
Sweet Home..... Gooch Logging Supply

UTAH
Salt Lake City..... Rocky Mountain Machinery Co.

WASHINGTON
Bellingham..... Morse Hardware Co.
Industrial Supply Co.
Everett..... Everett Hardware
Seattle..... Clyde Equipment Co.
A. H. Cox & Co.
Gardner-Denver Co.
Universal Equipment Co.
Spokane..... Andrews Equipment Service
Bitco, Inc.
Construction Equipment Co.
Modern Machinery Co.
Rental Equipment Co.
Western Machinery Co.

WYOMING
Rock Springs..... Wortham Machinery Co.

BUCK EQUIPMENT CORP.

720 Anderson Ferry Road
Cincinnati 38, Ohio

PRODUCTS: Hoistowers, Trailer and Truck Mounted; Concrete Buckets; Chicago Booms; Gin Poles; Automatic Gates; Loading Ramps; Poop Decks; Tower Sections; Automatic Gasoline Powered Hoistowers; Floor Hoppers.

Regional Representative

CALIFORNIA
Glendale—3928 San Fernando Rd.
A. Palmer Scaffolding Co.... Palmer Grasse, Pres.

Distributors

ARIZONA
Phoenix..... Baker Thomas Lime & Cement Co., Inc.

CALIFORNIA
Fresno..... R. J. Wayne Co.
Glendale..... A. Palmer Scaffolding Co.
Hollywood..... Acme Rents
Jim Shepherd

(Continued on next page)

C. I. T.'s Pay-As-You-Depreciate Plan permits payments out of depreciation

Buck Equipment Corp. (Cont'd)

Lancaster.....Acme Rents
W. Los Angeles.....Sam's U-Drive Trucks
Ontario.....A.A. Equipment-Wolfe & Sons
Pasadena.....Acme Rents
Van Nuys.....Sam's U-Drive Trucks

COLORADO

Denver.....Armstrong Caster Co.

IDAHO

Boise.....Safway Scaffolds of Boise

MONTANA

Great Falls.....Monty Machinery Co.

NEW MEXICO

Albuquerque.....Contractors Equipment & Supply Co.

OREGON

Eugene.....Safway Scaffolds Co. of Eugene
Portland.....Beatty S.S. Co. of Oregon

UTAH

Salt Lake City.....Lund Machinery Co.

WASHINGTON

Seattle.....Northwest Scaffold & Eqt. Co., Inc.

WYOMING

Cheyenne.....Kereml Tractor & Equipment Co.

BUCYRUS-ERIE CO.

South Milwaukee, Wisconsin

PRODUCTS: Shovels; Cranes; Draglines; Hydrocranes;
Hydrohoes.

Factory Personnel

CALIFORNIA
Los Angeles—Manager.....E. R. Dauer

S. San Francisco—Manager.....J. H. Sackett

WASHINGTON

Seattle—Manager.....B. A. Haney

Distributors

ARIZONA
Phoenix.....Road Machinery Co.

Tucson.....Road Machinery Co.

CALIFORNIA

Bakersfield.....Crook Company

Berkeley.....West Coast Engine & Eqt. Co.

Los Angeles.....Crook Company

San Jose.....West Coast Engine & Eqt. Co.

COLORADO

Denver.....The Colorado Builders Supply Co.

IDAHO

Boise.....Intermountain Equipment Co.

Pocatello.....Intermountain Equipment Co.

MONTANA

Billings.....Great Northern Tool & Supply Co.

Kalispell.....Westmont Tractor Co.

Missoula.....Westmont Tractor Co.

NEVADA

Reno.....Sanford Tractor & Equipment Co.

NEW MEXICO

Albuquerque.....R. L. Harrison Co.

OREGON

Portland.....Clyde Equipment Co.

UTAH

Salt Lake City.....Lang Construction Equipment Co.

WASHINGTON

Seattle.....Clyde Equipment Co.

Spokane.....Northern Commercial Co.

WYOMING

Casper.....The Colorado Builders Supply Co.

BUFFALO-SPRINGFIELD ROLLER CO.

DIVISION OF KOEHRING CO.

1210 Kenton Street

Springfield, Ohio

PRODUCTS: Self-Propelled Steel Wheel Rollers (tan-

dem, 3-axle tandem, 3-wheel); Self-Prop-

elled Segmented Wheel Compactors; Self-

Propelled Vibrating 3-Axle Tandem Rol-

lers; Self-Propelled Pneumatic Tire Rollers

(3-9 ton, 9-wheel and 10-30 ton 7-

wheel).

Western District Representative

UTAH
Salt Lake City, 526 13th Ave.....Ben E. Lingenfelter

Distributors

ALASKA
(Seattle).....Yukon Equipment Co.

ARIZONA

Phoenix.....Road Machinery Co.

CALIFORNIA

Los Angeles.....Crook Company

Oakland.....Spears-Wells Machinery Co.

(Continued in next column)

**Buffalo-Springfield Roller Co. Division of
Koehring Co. (Cont'd)****COLORADO**

Denver.....Ray Corson Machinery Co.

IDAHO

Boise.....Intermountain Equipment Co.

MONTANA

Helena.....Steffeck Equipment Co.

NEVADA

Reno.....Sierra Machinery Co.

NEW MEXICO

Albuquerque.....Contractors Equipment & Supply Co.

OREGON

Portland.....Cramer Machinery Co.

UTAH

Salt Lake City.....Atlas Equipment Co.

WASHINGTON

Seattle.....Clyde Equipment Co.

Spokane.....Intermountain Equipment Co.

WYOMING

Cheyenne.....Wortham Machinery Co.

THE BURCH CORPORATION

324 S. Thoman Street

Crestline, Ohio

PRODUCTS: Road Construction and Maintenance Equip-

ment—Pavers, Road Wideners, Material

Spreaders, Maintainers, Undertruck Scrap-

ers, Snow Plows and Ice Control Equip-

ment.

Distributors

ARIZONA
Phoenix.....Superior Equipment Co.

Tucson.....Ronstadt Hardware Co.

CALIFORNIA

Los Angeles.....Harron-Rickard & McCone Co.

San Diego.....Southern Equipment & Supply Co.

San Francisco.....Coast Equipment Co.

COLORADO

Denver.....Booth-Rouse Equipment Co.

IDAHO

Boise.....Starline Equipment Co.

MONTANA

Butte.....Hall-Perry Machinery Co.

OREGON

Portland.....Contractors Equipment Co.

Rudy Yost Truck Equipment

UTAH

Salt Lake City.....Arnold Machinery Co.

WASHINGTON

Seattle.....Sahlberg Equipment Co.

Spokane.....Modern Machinery Co.

WYOMING

Cheyenne.....Kereml Tractor & Equipment Co.

BUTLER BIN COMPANY

945 Blackstone Avenue

Waukesha, Wisconsin

PRODUCTS: Steel Storage Bins; Car Scoops; Vertical

Bucket Type Elevators; Bin Gates; Sand

and Gravel Plants; Weighing Hoppers;

Concrete Mixing Plants; Rock and Gravel

Storage Equipment; Electric Vibrators;

Weighing Batches; Cement Aerators; Bin

Indicators; Portable Concrete Hoppers.

Distributors

ARIZONA
Phoenix.....Copper State Tractor Co.

Tucson.....State Tractor & Equipment Co.

CALIFORNIA

Oakland.....The Brose Co.

COLORADO

Denver.....Rental Machinery Co.

IDAHO

Idaho Falls.....Lang Construction Equipment Co.

(Spokane).....Ferris Equipment Co.

MONTANA

Butte.....Pioneer Equipment Co.

Sidney.....Tractor & Equipment Co.

NEVADA

(Oakland).....The Brose Co.

NEW MEXICO

Albuquerque.....J. D. Coggins Co.

Farmington.....J. D. Coggins Co.

UTAH

Salt Lake City.....Lang Construction Equipment Co.

WASHINGTON

Seattle.....Air-Mac, Inc.

Spokane.....Ferris Equipment Co.

Tacoma.....Air-Mac, Inc.

Yakima.....Air-Mac, Inc.

WYOMING

(Butte).....Pioneer Equipment & Supply Co.

Cheyenne.....Wortham Machinery Co.

A. M. BYERS CO.

Pittsburgh 22, Pennsylvania

PRODUCTS: Wrought Iron Pipe, Plate, Bars and
Shapes; Electric Furnace Steel (alloy,
carbon, stainless) Products; PVC Plastic
Pipe, Sheet, Rods; Wrought Iron Conduit
(rigid); Cold Drawn Tubing.

Division Managers**CALIFORNIA**

San Francisco—1256 Russ Bldg.....A. D. Sheere

MISSOURI

St. Louis—8000 Bonhomme Ave.....W. B. Simpson
(Covering Colorado, Idaho, Montana, Nevada, Utah
and Wyoming.)

Field Service Engineers**CALIFORNIA**

Los Angeles.....330 Commercial Exch. Bldg.

COLORADO

Denver.....2611 Newport St.

WASHINGTON

Seattle.....574 Dexter Horton Bldg.

C. H. & E. MANUFACTURING CO.

3849 North Palmer Street

Milwaukee 12, Wisconsin

PRODUCTS: Portable Saw Rigs; Band Saws; Diaphragm
Pumps; Self-Priming Centrifugal Pumps;
Jetting Pumps; Piston Force Pumps; Tri-
plex Force Pumps; Sewage and Trash
Pumps; Single and Double Drum Hoists;
Plaster and Mortar Mixers; Bar Cutters;
Bar Benders; Tandem Rollers; Low-Bed
Trailers.

Distributors**ARIZONA**

Phoenix.....George S. Thomson Co., Inc.

CALIFORNIA

Los Angeles.....Brown-Bevis Industrial Eqt. Co.

San Francisco.....Contractors Machinery Co.

COLORADO

Denver.....Mine & Smelter Supply Co.

Grand Junction.....S & M Supply Co.

IDAHO

Boise.....Columbia Equipment Co.

NEW MEXICO

Albuquerque.....N. C. Ribble Co.

OREGON

Portland.....Columbia Equipment Co.

UTAH

Salt Lake City.....Mine & Smelter Supply Co.

WASHINGTON

Seattle.....Columbia Equipment Co.

Spokane.....Columbia Equipment Co.

WYOMING

Casper.....Moss Equipment & Supply Co.

CAL-WESTERN EQUIPMENT, INC.

See Jay Company

CAMPBELL CHAIN CO.

Norway and Elm Streets

York, Pennsylvania

PRODUCTS: Welded and Weldless Chain; Tire Chain.

District Manager**CALIFORNIA**

Los Altos—680 Templebar Way.....Leonard Woods

CALIFORNIA

Alvarado.....Jerry Campbell

Los Angeles—2960 Leonis Blvd.....Herman Froelich

OREGON

Portland—3085 NW Front St.....Ivan Snyder

WASHINGTON

Seattle—6901 E. Marginal Way.....Gerald Knott

Distributors

Construction Equipment Distributors and Mill Supply
Distributors in most principal cities of the 11 Western
states and Alaska.

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
Equitable Building, Portland

CAMPBELL DETACHABLE CAB CO.

120 West Kent Avenue
P.O. Box 278
Wauconda, Illinois

PRODUCTS: Tractor Cabs.

Distributors

Handled by the respective equipment distributors for
Allis-Chalmers, Caterpillar, Hough, International Har-
vester and Tractomotive.

RALPH B. CARTER CO.

192 Atlantic Street
Hackensack, New Jersey

PRODUCTS: Pumps—Self-priming Centrifugal, Dia-
phragm, Pressure, Jetting and Irrigation;
Gasoline, Diesel, Power Takeoff and Elec-
tric Driven.

Factory Branch

CALIFORNIA
San Francisco—582 Sixth St. Frank DeWolf

Factory Representative

CALIFORNIA
Pomona—2123 Kellogg Pk. Dr. Robt. J. Sedgwick

Distributors

ALASKA
Anchorage Western Tractor & Equipment Co.

ARIZONA
Phoenix Arizona Cedar Rapids Co.

CALIFORNIA
Babco Charles E. Duggan Co.

Blythe Blythe Pump & Well Drilling Co.

Los Angeles Electric Tool & Supply Co.

Monrovia Adams Service Co.

Pomona Charles E. Duggan Co.

San Bernardino W. K. Equipment Co.

San Francisco Rix Co., Inc.

Wilmington Pipe Lining Co., Inc.

COLORADO
Denver Johnson-Tudor Co.

DAHO
Boise Engineering Sales & Service

MONTANA
Billings Midland Materials Co.

NEVADA
Las Vegas Blystone Equipment Co.

Reno Graid Equipment Co.

NEW MEXICO
Albuquerque N. C. Ribble Co.

OREGON
Portland MI-Van Co.

UTAH
Salt Lake City Holland Equipment Co.

WASHINGTON
Seattle Western Tractor & Equipment Co.

WYOMING
Cheyenne Wilson Equipment & Supply Co.

CARVER PUMP CO.

1056 Hershey Avenue
Muscatine, Iowa

PRODUCTS: Pumps—Centrifugal, Irrigation,
Industrial, Diaphragm.

Distributors

ARIZONA
Phoenix Salt River Pump & Supply

CALIFORNIA
El Monte Shaw Pump & Supply Co.

Fresno Fresno Pump & Supply Co.

Los Angeles Howard Supply Co.

Mine & Mill Machinery Co.

San Francisco Westco Pump Sales Co.

COLORADO
Denver Denver Air Machinery Co.

Pueblo Bernstein Brothers

MONTANA
Billings Seitz Machinery Co.

Havre D. B. Lund Co.

UTAH
Salt Lake City Foulger Equipment Co.

J. I. CASE CO.

700 State Street
Racine, Wisconsin

PRODUCTS: Wheel Tractors, gasoline and diesel; High-
way Mowers (sickle and rotary); Power-
angling and Power-tilting Dozers; Tractor-
Shovels; Unit Loaders; Crawler-mounted
Fork Lifts.

(Continued in next column)

J. I. Case Co. (Cont'd)

Factory Branch Managers

CALIFORNIA

Oakland—P.O. Box 4665, Bayshore Annex Station
(Calif., Nev., Ida., Utah, Ariz.) Mel Winkler

OREGON

Portland—1709 SE 3rd Ave. R. J. Henneman
(Wash., Ore., Ida.)

Distributors

ALASKA

Anchorage Yukon Equipment, Inc.

Fairbanks Yukon Equipment, Inc.

Ketchikan Yukon Equipment, Inc.

(Seattle) Yukon Equipment Co.

ARIZONA

Phoenix Superior Equipment Co.

CALIFORNIA

Anaheim Orange County Tractor Co.

Arcata Loggers & Mill Supply Co.

Bakersfield L. F. Freehorn

El Cajon K. C. Y. Tractor Co., Ltd.

Oakland Blakemore Equipment Co.

Sacramento Blakemore Equipment Co.

San Francisco Contractors Machinery Co.

Santa Barbara Milpas Rental Service

Santa Clara Petersen Bros. Industrial Equipment Co.

Santa Rosa Senger Farm Supply

South Gate Gilmore & Wilcox

Sunnyvale Redwine Tractor Co.

Watsonville Howes Tractor & Equipment

COLORADO

Denver Constructors Equipment Co., Inc.

Grand Junction United Equipment Co., Inc.

Trinidad Barney's Garage & Implement Co.

IDAHO

Pocatello Flaherty Mfg., Inc.

NEW MEXICO

Albuquerque Construction Machinery Co.

Clovis Tucker Equipment Co.

OREGON

Albany Herrold & Jensen Implement Co.

Eugene Midway Machinery & Supply Co.

Lostine M. Crow & Co.

Medford Cal-Ore Machinery Co., Inc.

Pendleton The Vaughn Co., Oregon Limited

Portland Willamette Equipment Co., Inc.

Salem A. C. Haag & Co.

UTAH

Salt Lake City Tractor Center, Inc.

WASHINGTON

Chehalis Graham Implement Co.

Colfax Schneidmiller & Faires, Inc.

Montesano Graham Implement Co.

Seattle Yukon Equipment Co.

Spokane Corbit Equipment Co., Inc.

Yakima Intervalley Equipment Co.

CATAPHOTE CORPORATION

P.O. Box 2066
Toledo, Ohio

PRODUCTS: Traffic and Street Name Signs, plain or re-
flectorized; Catalflex "202" Reflective Coat-
ing for signs; Cataline Reflective Pavement
Marking; Glass Beads for reflectorizing
pavement making; Reflective Curb Marking
Kits; Catatherm Hot-Applied Permanent
Plastic Reflective Striping.

(Continued in next column)

Factory Representative

California Frank Collins

Distributors

ALASKA

Anchorage Craig Taylor Eqpt. & Supply Co.

ARIZONA

Phoenix Safety Engineering & Supply Co.

CALIFORNIA

Oakland George Avery

San Diego John Henberger

San Francisco Edward R. Bacon Co.

COLORADO

Denver Tudor Equipment Co.

Pueblo Pueblo Fire Equipment Co.

IDAHO

Boise Intermountain Equipment Co.

Pocatello Intermountain Equipment Co.

MONTANA

Billings Western Construction Equipment Co.

Great Falls Western Construction Equipment Co.

NEW MEXICO

Albuquerque Lively Equipment Co.

Teller Pipe Co.

UTAH

Salt Lake City Atlas Equipment Co.

Cataphote Corporation (Cont'd)

WASHINGTON

Seattle Andrews Machinery of Wash., Inc.

Spokane Sahlberg Equipment Co.

Modern Machinery Co., Inc.

WYOMING

Cheyenne Wilson Equipment & Supply Co.

CATERPILLAR TRACTOR CO.

Peoria, Illinois

PRODUCTS: Angle Dozers; Bulldozers; Bulldozer
Blades; Crawlers; Diesel Electric Sets;
Diesel Engines (also Marine Engines);
Gas Engines; Front-end Loaders; Gen-
erator Sets; Graders; Grader Blades;
Pipelayers; Power Control Units; Power
Plants; Rippers; Rock & Gravel Equip-
ment; Scrapers; Diesel Track-type and
Industrial Wheel-type Tractors; Welders.

Western Parts Depots

CALIFORNIA
Los Angeles

San Leandro

COLORADO
Denver

WASHINGTON
Spokane

Northwest Division Sales Office

CALIFORNIA

San Francisco—Sales Manager J. A. Justeson

Assistant Sales Manager L. W. Smith

Sales Promotion H. C. Fleming

Southwest Division Sales Office

CALIFORNIA

San Francisco—Sales Manager W. E. McCoy

Assistant Sales Manager R. E. Ehni

Sales Promotion T. W. Fahey

Distributors

ARIZONA

Phoenix Arizona Machinery Co.

Branches at Buckeye, Casa Grande, Coolidge,
Flagstaff, Mesa and Tucson

Yuma Braden Machinery Co.

Branch at Wellton

CALIFORNIA

Blythe Monnen Machinery Co.

Colusa I. G. Zumwalt Co.

Branch at Willows

El Centro Faure Tractor & Equipment Co.

Branch at Brawley

Eureka Brizard-Matthews Machinery Co.

Branch at Crescent City

Fresno Budd & Quinn, Inc.

Branches at Firebaugh, Madera, Reedley

Hanford Davies Machinery Co.

Branches at Bakersfield, Corcoran, Delano, Wasco

Los Angeles Shepherd Machinery Co.

Branches at Lancaster, San Diego (Marine
Engines), Santa Ana

Marysville Marysville Tractor & Equipment Co.

Branches at Robbins, Roseville

Modesto Valley Tractor Co.

Branches at Los Banos, Merced

Napa Berglund Tractor & Equipment Co.

Branches at Santa Rosa, Willits

Oxnard Wallace Machinery Co.

Branches at Paso Robles, Santa Maria

Riverside Johnson Tractor Co.

Branches at Coachella, Ontario

Sacramento Weaver Tractor Co.

Branches at Dixon, Sacramento, Walnut Grove,
Woodland

Salinas Pringle Tractor Co.

Branches at King City, Watsonville

San Diego Hawthorne Machinery Co.

Branch at Escondido

San Leandro Peterson Tractor & Equipment Co.

Branches at Chico, Redding

Santa Clara Ditz Bros.

Branch at Hollister

Stockton Holt Bros.

Branches at Lodi, Tracy

Visalia Quinn Co.

Branch at Porterville

COLORADO

Denver McCoy Company

Branches at Durango, Grand Junction, Pueblo,
Sterling

IDAHO

Boise Western Equipment Co.

Branches at Idaho Falls, Pocatello, Twin Falls,
Burley, Ontario (Ore.)

Lewiston Nez Perce Tractor & Equipment Co.

MONTANA

Billings Nash-Davis Machinery Co.

Branch at Greybull (Wyo.)

Great Falls Central Machinery Co.

Branches at Havre, Lewiston

Missoula Westmont Tractor Co.

Branch at Kalispell

Sidney Tractor & Equipment Co.

Branches at Glasgow, Miles City

(Continued on next page)

C. I. T. provides experienced financing for
Distributors and Contractors

Caterpillar Tractor Co. (Cont'd)

NEVADA
Las Vegas.....Cashman Equipment Co.
Reno.....Crooks Bros. Tractor Co.
Branch at Elko

NEW MEXICO
Albuquerque.....R. L. Harrison Co., Inc.

OREGON
Eugene.....Pape Bros., Inc.
Branches at Coquille, Roseburg
Klamath Falls.....Crater Lake Machinery Co.
Branches at Medford, Redmond
La Grande.....Inland Machinery Co.
Branches at Enterprise, John Day
Pendleton.....Empire Machinery Co.
Branches at Arlington, Athena, Heppner, Moro,
The Dalles
Portland.....Haltom Tractor Co.
Branches at Astoria, Longview, Salem

UTAH
Salt Lake City.....Wheeler Machinery Co.

WASHINGTON
Seattle.....N. C. Machinery Co.
Branches at Mt. Vernon, Port Angeles, Tacoma
Spokane.....Byrne Machinery Co.
Branch at Ritzville
Walla Walla.....Stone Machinery Co.
Branch at Dayton
Wenatchee.....Columbia Tractor Co.
Branch at Ephrata
Yakima.....Webb Tractor & Equipment Co.
Branches at Ellensburg, Pasco, Toppenish

WYOMING
Cheyenne.....Wortham Machinery Co.
Branches at Casper, Rock Springs, Sheridan

CHAIN BELT CO.
4701 W. Greenfield Avenue
Milwaukee 14, Wisconsin

PRODUCTS: Truck Mounted Concrete Mixers; Batching Equipment; Cement Storage Bins; Aggregate Storage Bins; Cement Elevators; Screw Conveyors; Aggregate Elevators and Conveyors; Concrete Pavers; Concrete Spreaders; Finishers; Longitudinal Float, Spray Curing Machines; Road-Airport-Sidewalk-Curb and Gutter Forms; Single Rail Material Transporter; Concrete Pumping Machines; Dewatering Pumps.

District Sales Managers

CALIFORNIA
Los Angeles.....R. G. Kuhnmuensch
San Francisco—444 8th St.....A. E. Schmidt
(No. Calif., Ida., Nev., Ore., Wash.)

COLORADO
Denver—621 17th St.....E. M. Extract
(Colo., Mont., N. Mex., Utah.)

Distributors

ALASKA
(Seattle).....Northern Commercial Co.

ARIZONA
Phoenix.....Road Machinery Co.

CALIFORNIA
San Francisco.....Coast Equipment Co.

COLORADO
Denver.....Booth-Rouse Equipment Co.

MONTANA
Billings.....Hall-Perry Machinery Co.
Butte.....Hall-Perry Machinery Co.
Great Falls.....Hall-Perry Machinery Co.
Missoula.....Hall-Perry Machinery Co.

NEVADA
Reno.....Pioneer Equipment Co.

NEW MEXICO
Albuquerque.....Contractors Equipment & Supply Co.

OREGON
Eugene.....Loggers & Contractors Mch. Co.
Portland.....Loggers & Contractors Mch. Co.

UTAH
Salt Lake City.....Arnold Machinery Co.

WASHINGTON
Seattle.....Air-Mac, Inc.

CHESTER PRODUCTS CO.
Division of Ranschoff, Inc.
N. 5th Street & Ford Blvd.
Hamilton, Ohio

PRODUCTS: Tamping Rollers—Model 1760 (Special), Model 4840 "NINE TON", Model 6060 "BIG SIXTY"; Pneumatic Compactors—Model 50T4 "FIFTY TON", Model 9W40 "9 WHEELS", Model 13W80 "13 WHEELS"; Model 9W-Power Drive.

Western Field Representative

CALIFORNIA
Sherman Oaks—P. O. Box 796.....Joseph M. Shelt

CHEVROLET MOTOR DIVISION
GENERAL MOTORS CORPORATION

General Motors Building, Rm. A-209
Detroit 2, Michigan

PRODUCTS: Automobiles and Trucks.

Regional Truck Managers

CALIFORNIA
Oakland—Foothill Blvd & 69th Ave....R. L. Lansdon

COLORADO
Denver—316 Mile High Center Bldg....R. M. Sigler

Zone Truck Managers

CALIFORNIA
Los Angeles—3325 Wilshire Blvd....F. F. Watkins
Oakland.....R. H. McCormick
10910 E. 14th St., Box 1439

COLORADO
Denver—301 S. Cherokee St., Box 5530...D. A. Hyatt

OREGON
Portland—3100 NW Industrial St....D. W. Dayton

UTAH
Salt Lake City.....E. J. Shea
358 Rio Grande St., Box 539

CHICAGO BRIDGE & IRON CO.
332 South Michigan Avenue
Chicago 4, Illinois

PRODUCTS: Digesters, Pulp; Holders, Gas; Penstocks; Refinery Towers, Oil; Smokestacks; Standpipes; Steel Forms; Steel Plate Work; Tanks, Acid; Tanks, Aluminum; Tanks, Elevated; Tanks, Flat Bottoms; Tanks, Hemispherical, Spherical and Spheroidal; Pressure Vessels; Conkey Evaporators.

Western Plant Manager

UTAH
Salt Lake City—555 W. 17th St....G. R. Loveless

Western Sales Managers

CALIFORNIA
S. Pasadena—712 Fair Oaks Ave....Dean E. Stephan
San Francisco—200 Bush St....L. A. Elsener

WASHINGTON
Seattle—1355 Henry Bldg.....R. A. Jackson

CHICAGO PNEUMATIC TOOL CO.
6 East 44th Street
New York 17, New York

PRODUCTS: Pneumatic and Electric Tools; Compressors; Rock Drills; Diesel Engines.

Western District Offices

CALIFORNIA
Los Angeles—Manager.....H. P. Hansen
San Francisco—Manager.....A. B. Rudstrom
Special Representative.....C. W. Scott

COLORADO
Denver—Manager.....O. L. Briggs

UTAH
Salt Lake City—Manager.....O. L. Briggs

WASHINGTON
Seattle—Manager.....R. S. McBeth

Distributors

ARIZONA
Phoenix.....Lee Redman Equipment Co.
Tucson.....State Tractor & Equipment Co.

CALIFORNIA
Eureka.....Coastwise Industrial Co.
Fresno.....Contractors Equipment & Supply Co.
Los Angeles.....Cook Bros. Construction Machinery Co.
Oakland.....Cook Bros. Truck & Equipment Co.
Redding.....Paul Droscher Sales
San Diego.....Construction Machinery Co., Inc.
Stockton.....Action Equipment Co.

COLORADO
Denver.....Edw. F. Taylor Co.
Grand Junction.....United Equipment Co.

IDAHO
Idaho Falls.....Arnold Machinery Co.

MONTANA
Billings.....Industrial Equipment Co.
Butte.....Pioneer Equipment & Supply Co.
Great Falls.....NorMont Equipment Co.
Kalispell.....Treasure State Equipment Co.
Missoula.....Treasure State Equipment Co.

NEVADA
Elko.....A-D Machinery Co.
Las Vegas.....Inland Service & Supply Corp.
Reno.....Pioneer Ept. Co. of Nevada, Inc.

(Continued in next column)

Chicago Pneumatic Tool Co. (Cont'd)

NEW MEXICO
Albuquerque.....N. C. Ribble Co.
Roswell.....Smith Machinery Co., Inc.

OREGON
Eugene.....Interstate Tractor & Equipment Co.
Medford.....Cal-Ore Machinery Co., Inc.
Portland.....Interstate Tractor & Equipment Co.

UTAH
Salt Lake City.....Arnold Machinery Co.

WASHINGTON
Ephrata.....Galloway Sales & Service
Seattle.....Universal Equipment Co.
Spokane.....Andrews Ept. Service of Wash.

WYOMING
Casper.....Studer Tractor & Equipment Co.

CHIKSAN COMPANY
330 N. Pomona Avenue
Brea, California

PRODUCTS: Joints (swivel or swing); Monitors (hydraulic).

Factory Branches

CALIFORNIA
Brea—Sr. Field Engineer.....Robert T. Jones
Oakland—District Manager.....H. Stock

Distributors

ARIZONA
Phoenix.....Cone & Wallace Co.

COLORADO
Aurora.....Well Equipment Mfg. Corp.

OREGON
Portland.....Henry Kalz Co.

UTAH
Salt Lake City.....Lang Construction Ept. Co.

WASHINGTON
Seattle.....E. C. Griffin Co.

CHILDERS MFG. CO., INC.
2010 Sixth Street, N.W.
P.O. Box 6185, Station B
Albuquerque, New Mexico

PRODUCTS: Circulating Hot Oil Heaters; Asphalt Storage Tanks; Fuel Oil Preheaters; Combination Asphalt Storage Tanks and Hot Oil Heaters; Hypopac Units; HO Pipe Dope.

Distributors

ARIZONA
Phoenix.....Road Machinery Co.
Tucson.....Road Machinery Co.

CALIFORNIA
Los Angeles.....Santa Fe Equipment Co.
San Bernardino.....Santa Fe Equipment Co.

COLORADO
Denver.....Booth-Rouse Equipment Co.

IDAHO (SO.)
Idaho Falls.....Lang Construction Equipment Co.

MONTANA
Billings.....Montana Powder & Equipment Co.
Great Falls.....Montana Powder & Equipment Co.
Helena.....Montana Powder & Equipment Co.
Missoula.....Montana Powder & Equipment Co.

NEVADA (SO.)
Las Vegas.....Santa Fe Equipment Co.

NEW MEXICO
Albuquerque.....Lively Equipment Co.

OREGON
Portland.....Columbia Equipment Co.

UTAH
Salt Lake City.....Lang Construction Equipment Co.

WASHINGTON
Seattle.....Washington Machinery Co.

WYOMING
Casper.....Keremi Tractor & Equipment Co.
Cheyenne.....Keremi Tractor & Equipment Co.

CHRYSLER MARINE & INDUSTRIAL
ENGINE DIV.
12200 East Jefferson
Detroit 31, Michigan

PRODUCTS: Internal Combustion Engines—Gasoline.

Industrial Engine Dealers

ALASKA
Juneau.....Northern Commercial Co.
Ketchikan.....Northern Commercial Co.

(Continued on next page)

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
Equitable Building, Portland

Chrysler Marine & Industrial Engine Div. (Cont'd)

CALIFORNIA
Bakersfield.....Wilson Engine & Equipment Co.
Berkeley.....West Coast Motors
Fresno.....Crocket Brothers
Huntington Park.....Angelus Engine Sales
Marysville.....Williams Motors
Oxnard.....Power Tractor Co.
Sacramento.....Dalton Motors, Inc.
San Diego.....Kenton Equipment Co.
Woodland.....William R. Cato

COLORADO
Denver.....Western Industrial Engines, Inc.

NEVADA
Reno.....Sierra Machinery Co., Inc.

NEW MEXICO
Albuquerque.....Lively Equipment Co.
Clovis.....Ingram Bros. Pump Co.
Deming.....Deming Brake & Tractor Service
Las Cruces.....Butte Pump and Machinery Co.
Lovington.....Smith Machinery Co.
Roswell.....Smith Machinery Co.

OREGON
Portland.....White Diesel Engine Div.

WASHINGTON
Seattle.....Northern Commercial Co.

CIRCLE WIRE & CABLE CORP.

5500 Maspeth Avenue
Maspeth 78, New York

PRODUCTS: Hot Rolled Copper Rods; Armored Cable; Armored Cable, Lead; Non-Metallic Sheathed Cable; Flexible Steel Conduit; Rubber Covered Wire; Rubber and Lead Cables; Flexible Cords, all types; UF Wire; Barn Cable; Galvanized Steel Strip; Bare Copper Wires; Bell Wire—Office Wire; Thermostat Wires and Cables; Parkway Cables; Varnished Cambric Cables; Power Cables; Service Entrance Cables; Weather-proof Wire; Plastic Insulated Wire; Electric Metallic Tubing.

Distributors

CALIFORNIA
Los Angeles.....Elkins Electric Agency
San Francisco.....Brill Electric Sales

OREGON
Portland.....Electric Agencies

WASHINGTON
Seattle.....Electric Agencies

CLARK EQUIPMENT CO.

Automotive Division
324 E. Dewey Avenue
Buchanan, Michigan

PRODUCTS: Axle Housings; Trailer and Tandem Axles; Transmissions; Torque Converters; Final Drive Assemblies; Air Suspensions; Gears and Forgings.

Distributors

CALIFORNIA
Long Beach.....Everett H. York
(So. Calif., Ariz.)

COLORADO
Denver.....F. C. Walz
(Colo., Utah, Wyo.)

OREGON
Portland.....H. C. McKay Co.
(No. Calif., Ida., Nev., Ore., Wash.)

CLARK EQUIPMENT CO.

Construction Machinery Division
P.O. Box 599
Benton Harbor, Michigan

PRODUCTS: Cranes; Dozers; Wagons; Shovels; Loaders; Scrapers.

Western District Manager

CALIFORNIA
Menlo Park—210 Golden Oak Dr.....M. O. Nyström

District Representatives

CALIFORNIA
Manhattan Beach—645 17th St.....D. W. Pedley

COLORADO
Denver.....R. C. Peterson

(Continued in next column)

Clark Equipment Co. (Cont'd)

Distributors

ALASKA
Anchorage.....Evans Engine & Eqt. Co., Inc.

ARIZONA
Phoenix.....Western Machinery Co.

CALIFORNIA
Los Angeles.....Buran Equipment Co.
Oakland.....Buran Equipment Co.
Santa Clara.....Buran Equipment Co.

COLORADO
Denver.....Western Machinery Co.
Grand Junction.....Western Machinery Co.

IDAHO
Boise.....Sawtooth Co.
Twin Falls.....Sawtooth Co.

MONTANA
Billings.....Miller Machinery Co.
Missoula.....Miller Machinery Co.

NEVADA
Reno.....Graid Equipment Co.

NEW MEXICO
Albuquerque.....N. C. Ribble Co.

OREGON
Portland.....Cramer Machinery Co.

UTAH
Salt Lake City.....Foulger Equipment Co.

WASHINGTON
Seattle.....Totem Equipment Co.
Spokane.....Totem Equipment Co.

WYOMING
Casper.....Moss Equipment & Supply Co.

CLARK INDUSTRIES

Construction Equipment Division
375 East Fifth Avenue
Columbus 1, Ohio

PRODUCTS: Steel Paving Forms—road, airport, curb and gutter, sidewalk; Bins; Batching Equipment.

Manufacturing Representative

CALIFORNIA
Pomona—1807½ N. Garey Ave.....H. L. Dutoit

Distributors

ALASKA
Anchorage.....Yukon Equipment Co., Inc.
Fairbanks.....Yukon Equipment Co., Inc.
Ketchikan.....Yukon Equipment Co., Inc.
(Seattle).....Yukon Equipment Co., Inc.

CALIFORNIA
Fresno.....Edward R. Bacon Co.
Los Angeles.....Smith-Booth-Usher Co.
Oakland.....Edward R. Bacon Co.
Sacramento.....Edward R. Bacon Co.
San Diego.....Smith-Booth-Usher Co.
San Francisco.....Edward R. Bacon Co.

COLORADO
Denver.....The Mine & Smelter Supply Co.

IDAHO
Idaho Falls.....Western Machinery Co.
Pocatello.....Western Machinery Co.

MONTANA
Glasgow.....Tractor & Equipment Co.
Miles City.....Tractor & Equipment Co.
Sidney.....Tractor & Equipment Co.

NEVADA
(Los Angeles).....Smith-Booth-Usher Co.
(Salt Lake City).....Western Machinery Co.
(San Francisco).....Edward R. Bacon Co.

NEW MEXICO
Albuquerque.....J. D. Coggins Co.
Farmington.....J. D. Coggins Co.

OREGON
Portland.....Nelson Equipment Co.

UTAH
Salt Lake City.....Western Machinery Co.

WASHINGTON
Spokane.....Western Machinery Co.

WYOMING
Casper.....Wortham Machinery Co.
Cheyenne.....Wortham Machinery Co.
Rock Springs.....Wortham Machinery Co.
Sheridan.....Wortham Machinery Co.

CLARY MANUFACTURING CO.

421 South Date Avenue
Alhambra, California

PRODUCTS: Clary Power Screenshot; Clary Power Screenshot Conveyors; Clary Finishers.

Northwestern Representative

WASHINGTON
Seattle—444 Dexter Horton Bldg..Lewis E. Langdon

Distributors

CALIFORNIA
San Francisco.....Edward R. Bacon Co.

MONTANA
Billings.....Hall-Perry Machinery Co.

NEVADA
Reno.....Reno Equipment Sales Co.

OREGON
Portland.....Guthrie Machinery Co.

CLAYTON MANUFACTURING CO.

401 No. Temple City Blvd., Box 550
El Monte, California

PRODUCTS: Steam Cleaners; Dynamometers (Engine and Chassis); Steam Generators; Steam Cleaning Compounds; Portable Heaters.

Regional Managers

CALIFORNIA
San Gabriel—1301 Abbott Ave.....John J. Billman
Walnut Creek—1688 Terrace Road...Walter Wood

District Managers

ARIZONA
Phoenix—2320 E. Curnow Dr.....Arleigh Biehler

CALIFORNIA
Lafayette—3771 Sundale Rd.....W. Porter
San Anselmo—10 Van Hooten Ct.....F. E. Hissem
San Gabriel—356 Alshamere Terrace...R. C. Welch
Sunnyvale—1580 Samedra.....J. C. Derus

COLORADO
Denver—2963 S. Meade St.....S. F. Bustarello

OREGON
Oswego—3250 S. W. Upper Dr.....J. B. Burdick

UTAH
Bountiful—1285 S. First E.....C. L. Starlin
Salt Lake City—P.O. Box 61.....Heatway Sales

WASHINGTON
Seattle—2451 W. 59th St.....W. P. Hunt

Representative

ARIZONA
Phoenix—1636 N. 26th Pl.....H. M. Craig

Distributors

ALASKA
Anchorage.....Northern Commercial Co.

CALIFORNIA
Los Angeles.....Garlinghouse, Fremont & Co.

Smith-Booth-Usher Co.
Western Power Equipment Co.

Redwood City.....Western Power Equipment Co.
San Diego.....Smith-Booth-Usher Co.

Standard Iron Supply Co.

COLORADO
Denver.....Hendrie & Bolthoff Co.
Western Machinery Co.

IDAHO
Boise.....Engineering Sales Service, Inc.

MONTANA
Helena.....Montana Powder & Equipment Co.

OREGON
Portland.....Clyde Equipment Co.

Contractors Equipment Co.
A. W. Mortensen Co.
Star Machinery Co.

UTAH
Salt Lake City.....Western Machinery Co.

WASHINGTON
Seattle.....Clyde Equipment Co.

Hatten Machinery Co.
A. W. Mortensen Co.
Northern Commercial Co.

Star Machinery Co.
Washington Machinery Co.

Spokane.....Inland Diesel & Machinery Co.

WYOMING
Casper.....Moss Equipment & Supply Co.

C. I. T.'s Pay-As-You-Depreciate Plan provides long term financing for Contractors

CLEAVER-BROOKS CO.

326 E. Keefe Avenue
Milwaukee 12, Wisconsin

PRODUCTS: Boilers; Bituminous Booster; Hot Oil Heaters.

Distributors

ALASKA
Anchorage.....The Carrington Co.
Fairbanks.....The Carrington Co.

ARIZONA
Phoenix.....Arizona Cedar Rapids Co.

CALIFORNIA
Los Angeles.....Calavar Corp.
Oakland.....Sun Equipment Co.

COLORADO
Denver.....H. W. Moore Equipment Co.

IDAHO
Boise.....Intermountain Equipment Co.
Pocatello.....Intermountain Equipment Co.

MONTANA
Billings.....Hall-Perry Machinery Co.
Butte.....Hall-Perry Machinery Co.

Great Falls.....Hall-Perry Machinery Co.
Missoula.....Hall-Perry Machinery Co.

NEVADA
Reno.....Sierra Machinery Co.

NEW MEXICO
Albuquerque.....R. L. Harrison Co., Inc.

OREGON
Portland.....Columbia Equipment Co.

UTAH
Salt Lake City.....Kimball Equipment Co.

WASHINGTON
Seattle.....Columbia Equipment Co.
Spokane.....Columbia Equipment Co.

WYOMING
Casper.....Studer Tractor & Equipment Co.

CLEASBY-WITTIG CO., INC.

969 Treat Avenue
San Francisco 10, California

PRODUCTS: Asphalt Kettles; Asphalt Pumps; Felt Laying Machines; Hand Portable Sprayers; Burners, Kerosene-LPG; Steam Cleaners; Asphalt Carriers.

Factory Branch

CALIFORNIA
Redwood City.....Ker-O-Kil Manufacturing Co.
2701 El Camino Real.....G. Slocum

CLEMENT-BRASWELL, INC.

Sibley Road, P.O. Box 807
Minden, Louisiana

PRODUCTS: Hydraulic and Cable Dump Trailers.

Factory Branch Manager

CALIFORNIA
Azusa—430 W. Foothill Blvd.....J. Leon O'Neal

Distributors

CALIFORNIA
Azusa.....Clement-Braswell, Inc.

COLORADO
Denver.....Timpte Bros.

NEW MEXICO
Albuquerque.....Timpte Bros.

OREGON
Portland.....Schetky Equipment Corp.

CLEVELAND FORMGRADER CO.

34250 Mills Road
Avon, Ohio

PRODUCTS: Formgraders; Form Tampers; Scratch Templates; Trailgraders; Strike-Offs; Subgrade Scrapers; Steel and Aluminum Straight Edges; Finishing Bridges; Floats; Pin Pullers.

Distributors

ARIZONA
Phoenix.....Western Machinery Co.

CALIFORNIA
Los Angeles.....Smith-Booth-Usher Co.
Oakland.....Sun Equipment Co.

(Continued in next column)

Cleveland Formgrader Co. (Cont'd)

COLORADO
Denver.....Booth-Rouse Equipment Co.
Rocky Mountain Equip. & Supply Co.
Union Hardware & Tool Co.
Western Machinery Co.

IDAHO
Boise.....Arnold Machinery Co., Inc.
Intermountain Equipment Co.
Idaho Falls.....Arnold Machinery Co., Inc.
Pocatello.....Rocky Mountain Machinery Co.

MONTANA
Billings.....Hall-Perry Machinery Co.
Butte.....Hall-Perry Machinery Co.
Great Falls.....Hall-Perry Machinery Co.
Missoula.....Hall-Perry Machinery Co.

NEW MEXICO
Albuquerque.....W. J. Burke & Co.
Contractors Equipment & Supply Co.

OREGON
Portland.....Contractors Equipment Corp.
Nelson Equipment Co.
Star Machinery Co.

UTAH
Salt Lake City.....Arnold Machinery Co.
Lang Construction Equipment Co.
Mitchell Concrete Accessories Co.
Rocky Mountain Machinery Co.

WASHINGTON
Seattle.....Star Machinery Co.
Spokane.....Star Machinery Co.

WYOMING
Cheyenne.....Wilson Equipment & Supply Co.

THE CLEVELAND TRENCHER CO.

20100 St. Clair Avenue
Cleveland 17, Ohio

PRODUCTS: Backfillers; Backfill Tampers and Side Cranes; Tampers; Trailers; Trenchers.

Distributors

ARIZONA
Phoenix.....Shriver Machinery Co.

CALIFORNIA
Los Angeles.....Smith-Booth-Usher Co.
San Francisco.....Edward R. Bacon Co.

COLORADO
Denver.....H. W. Moore Equipment Co.
Durango.....H. W. Moore Equipment Co.
Grand Junction.....H. W. Moore Equipment Co.

MONTANA
Billings.....Industrial Equipment Co.
Great Falls.....Normont Equipment Co.
Kalispell.....Treasure State Equipment Co.
Missoula.....Treasure State Equipment Co.

NEW MEXICO
Albuquerque.....J. D. Coggins Company
Farmington.....J. D. Coggins Company

OREGON
Eugene.....Loggers & Contractors Mch. Co.
Portland.....Loggers & Contractors Mch. Co.

UTAH
Salt Lake City.....Atlas Equipment Co.

WASHINGTON
Seattle.....Totem Equipment Co.
Spokane.....Western Machinery Co.

THE CLEVELAND VIBRATOR CO.

2828 Clinton Avenue, West
Cleveland 13, Ohio

PRODUCTS: Pneumatic and Electric Vibrators for hoppers, bins, chutes, screeds, screens and forms.

Factory Representative

CALIFORNIA
San Francisco—1485 Bayshore Blvd....L. P. Meteser

CLIPPER MANUFACTURING CO.

2800 Warwick Street
Kansas City 8, Missouri

PRODUCTS: Masonry Saws; Concrete Saws; Diamond, Abrasive and Break-Resistant Abrasive Blades for Masonry and Concrete Cutting; Hot Pour Joint Sealers; Cold-Applied Joint Sealers for highway and airfield construction.

Factory Branch Managers

CALIFORNIA
Los Angeles—440 Seaton St.....Bob Stubbs
San Francisco—885 Bryant St.....Bob Stubbs

COLORADO
Denver—5075 Colorado Blvd.....Pat Burgeon

(Continued in next column)

Clipper Manufacturing Co. (Cont'd)**Field Representatives**

CALIFORNIA
Los Angeles—440 Seaton St.....Curt Holler
and Art Wilson
San Francisco—885 Bryant St.....Bill Price and
Bob MacMullen

COLORADO
Denver—5075 Colorado Blvd.....Ken Webb

Distributors

ARIZONA
Phoenix.....Superlite Builders Supply

IDAHO
Boise.....Boise Stone & Tile Co.
Idaho Falls.....Clark Concrete Construction Co.

NEW MEXICO
Albuquerque.....W. J. Burke & Company

OREGON
Portland.....W. J. Burke & Company

UTAH
Salt Lake City.....Interstate Brick Co.

WASHINGTON
Seattle.....W. J. Burke & Company

WYOMING
Cheyenne.....Power Builders Supply

CLYDE IRON WORKS, INC.

Duluth 1, Minnesota

PRODUCTS: Cranes; Pile Hammers; Winches; Derricks; Tandem Rollers; Hoists; Whirlies; Cams; Pullers; Builders Towers; Unloaders; Whirlettes; Whirlers.

Distributors

ALASKA
Anchorage.....Bashaw Equipment Co.
Fairbanks.....Miller & Bentley
Bashaw Equipment Co.

ARIZONA
Phoenix.....State Tractor & Equipment Co.

CALIFORNIA
Los Angeles.....Harron, Rickard & McCone Co.
San Francisco.....Coast Equipment Co.

COLORADO
Denver.....Booth-Rouse Equipment Co.
Mine & Smelter Supply Co.
Rental Machinery Co.

IDAHO
Boise.....Intermountain Equipment Co.

MONTANA
Billings.....Western Construction Equipment Co.
Great Falls.....Western Construction Equipment Co.

NEW MEXICO
Albuquerque.....Harry Cornelius Co.

OREGON
Portland.....Clyde Equipment Co.

UTAH
Salt Lake City.....Mine & Smelter Supply Co.

WASHINGTON
Seattle.....Clyde Equipment Co.
Spokane.....Intermountain Equipment Co.

COFFING HOIST DIVISION

Duff-Norton Company
800 Walter Street
Danville, Illinois

PRODUCTS: Electric Hoists; Ratchet Lever Hoists; Spur Gear Hoists; Differential Hoists; Low Head Room Hoists; Army Type Extended Hand Wheel and Clevis Connected Spur Gear Hoists; "Hoist-A-Is"; "Mighty Mid get Pullers"; Utility Maintenance Tools; Load Binders.

District Sales Managers

CALIFORNIA
San Francisco—1016 Howard St.....A. M. Kel

COLORADO
Denver—842 S. York St.....F. R. Elson

Distributors in all major cities

COLBY STEEL & MANUFACTURING, INC.

65 Horton Street
Seattle 4, Washington

PRODUCTS: Custom Engineered Bridge, Gantry, Hammerhead, Luffing Boom, and Double Cant lever Cranes; Hydraulic and Electric Luffing Shipboard Type Cargo Handling Cranes; Grab Bucket Unloaders; Marine Elevators; Automobile and Passenger Ramps.

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
Equitable Building, Portland

COLORADO FUEL & IRON CORP.

Continental Oil Building
Denver, Colorado
Wickwire Spencer Steel Div.
Palmer, Massachusetts

PRODUCTS: Clinton Welded Wire Fabric; Cal-Tie Wire; Blades for Graders, Dozers, Scrapers, Carryalls, Snow Plows; Wickwire Rope; Wire Rope Slings; Industrial Screens.

District Offices

ARIZONA
 Phoenix—District Sales Manager.....L. S. Helms

CALIFORNIA
 Los Angeles—District Sales Manager...H. B. Hansen
 Oakland—General Manager of Sales...J. T. Brittain
 San Francisco—District Sales Manager...F. W. Hansen
 San Leandro—District Sales Manager...F. W. Hansen

COLORADO
 Denver—District Sales Manager.....T. W. Wahrlich
 Grand Junction—
 Asst. Dist. Sales Mgr.....F. Corbetta
 Pueblo—District Sales Manager.....Harold Eyer

IDAHO
 Boise—Asst. District Sales Mgr.....K. L. Welling

MONTANA
 Billings—District Sales Manager...W. B. Andrews
 Butte—District Sales Repr.....N. H. Nordby

NEW MEXICO
 Albuquerque—District Sales Manager...C. O. Smith
 Farmington—Sales Representative,
 Wire Rope.....C. W. Odneal

OREGON
 Portland—District Sales Manager.....C. L. Yon

TEXAS
 Ft. Worth—Manager of Sales,
 Southwestern Division.....C. F. Lanter
 Houston—District Manager, Steel Sales C. B. Cooper
 Manager, Wire Rope Sales.....Jack Driggs

UTAH
 Salt Lake City—Manager of Sales,
 Northwestern Division.....J. A. Bole

WASHINGTON
 Seattle—District Sales Manager.....G. J. Skarich
 Spokane—District Sales Manager.....M. L. Alter

Wickwire Rope Distributors

ALASKA
 Anchorage.....Northern Supply Co.
 Petersburg.....The Trading Union, Inc.

ARIZONA
 Douglas.....Phelps-Dodge Mercantile Co.
 Flagstaff.....Babbitt Bros. Trading Co.
 Phoenix.....Arizona Hardware Co.
 Bill Johnson Supply Co.
 Construction & Mining Supply Co.
 Lee Redman Equipment Co.
 Western Machinery Co.

TUCSON
 Tucson.....Ronstadt Hardware Co.

CALIFORNIA
 Arcata.....Reliable Hardware Co.
 Bakersfield.....Davies Machinery Co.
 Blythe.....O-B-S Equipment, Inc.
 Brawley.....Hay Machinery Co.
 Downey.....Cutting Edge Supply Co.
 Fresno.....Pittsburgh Des Moines Steel Co.
 Glendale.....Air Associates, Division
 Hayward.....Hill Supply Co.
 Jackson.....Spinetti Brothers
 La Puente.....Willis B. Kyle, Inc.
 Long Beach.....Cordage Supply Co.
 Los Angeles.....A. M. Castle Co.
 Harger & Reynolds Corp.
 The Howard Supply Co.
 International Wire & Cable Corp.
 Rutherford & Skouby Steel Co.
 Oro Grande.....Oro Grande Farm Implement Co.
 Redding.....Cascade Industrial Supply Co.
 Sacramento.....Capitol Machine & Welding Wks., Inc.
 Pittsburgh Des Moines Steel Co.
 Contractors Service Division
 San Francisco.....Bell Riggling Supply
 A. M. Castle & Co.
 San Jose.....Pacific Hardware & Steel Co.
 San Leandro.....Peterson Tractor & Equipment Co.
 San Luis Obispo.....Farmers Hardware & Equipment Co.
 San Pedro.....Seaside Supply Stores
 Santa Rosa.....Reliable Hardware & Steel Co.
 Sonoma.....Tuolumne Foundry & Machine Co.
 Stockton.....Pittsburgh Des Moines Steel Co.
 Ukiah.....Reliable Mill Supply Co.

COLORADO
 Artesia.....Uintah Gas & Equipment Co.
 Colorado Springs.....Western Iron Metal & Mch.
 Cortez.....Iverson Sup. Co.
 Denver.....M. J. Cros Manufacturing Co.
 Franklin Supply Co.
 Houston Oil Field Material Co.
 Iverson Supply Co.

Colorado Fuel & Iron Corp. (Cont'd)

T. C. Koogle & Son
 McDonald Equipment Co.
 Mountain Iron & Supply Co.
 Plant Equipment Co.
 Southwest Supply Co.
 Union Supply Co.

Durango.....Telluride Iron Works
Fort Collins.....Valley Steel & Wire
Fort Morgan.....Allison Meller Supply Co.
 Franklin Supply Co.
 McDonald Equipment Co.
 Mayhew Machine & Supply Co.

Grand Junction.....Salt Lake Hardware Co.
Loveland.....Western States Supply Co.
Pueblo.....Colorado Road Machine Co.
 Mutual Machinery Co.
 S. W. Pressey & Son

Rangely.....Sargent Engineering Corp.
Springfield.....Jett Hardware Supply Co.
Uranan.....Homer Woods Machinery Co.

IDAHO
 Boise.....Engineering Sales & Service
 Salt Lake Hardware Co.
 Pocatello.....Pocatello Plumbing & Ind. Supply Co.

MONTANA
 Billings.....Houston Oil Field Material Co.
 Western Builders
 Butte.....Pioneer Equipment Co.
 Cut Bank.....Great Northern Tool & Sup. Co.
 Great Falls.....Central Machinery Co.
 Northwest Steel, Inc.
 Havre.....Central Machinery Co.
 Helena.....Caird Engr. Works
 Kalispell.....Treasure State Equipment Co.
 Kevin.....Great Northern Tool & Sup. Co.
 Lewiston.....Central Machinery Co.
 Missoula.....Treasure State Equipment Co.
 Sidney.....Mayhew Machine & Supply

NEVADA
 Elko.....A-D Machinery Co.
 Las Vegas.....A-D Machinery Co.
 James Cashman Co.
 Lincoln Welding Works
 Pioneer Equipment Co.

RENO.....Pioneer Equipment Co.

NEW MEXICO
 Albuquerque.....Harry Cornelius Co.
 Turner Drillers Supply
 Allied Supply Co.
 Iverson Supply Co.
 Cimarron.....Cimarron Mercantile Co.
 Farmington.....Beacon Supply Co.
 Bovaard Sup. Co.
 Franklin Sup. Co.
 Houston Oil Field Material Co.
 Iverson Supply Co.
 Mayhew Supply Co.
 Ambrosia Sup. Co.
 Plateau Hardware Co.
 Meyers Company
 Santa Fe.....Santa Fe Builders Supply Co.
 Silver City.....E. Cosgrove, Inc.

OREGON
 Baker.....Commercial Welding Co., Inc.
 Klamath Falls.....Cascade Industrial Supply Co.
 Portland.....A. W. Davis Supply Co.
 Feenaughty Machinery Co.
 Gilmore Steel & Supply Co.
 Reedsport Logging & Supply Co.

TEXAS
 El Paso.....Construction Supply of El Paso
 El Paso Pipe & Supply
 Monsen, Dunnegan, Ryan
 Ponsford Equipment Co.
 Tri-State Equipment Co.
 Zork Hardware Co.

UTAH
 Moab.....Plateau Hardware Co.
 Salt Lake City.....Archer Tractor & Eqpt. Co.
 Atlas Eqpt. Co.
 Salt Lake Hardware Co.
 Zion's Cooperative Mercantile Inst.

WASHINGTON
 Chehalis.....W. J. Graham Implement Co.
 Colville.....Cole Motors
 Forks.....Ulin Maintenance & Supply Co.
 Olympia.....Olympia Supply Co.
 Port Angeles.....Ulin Maintenance & Supply Co.
 Seattle.....A. M. Castle & Co.
 Fray Equipment Co.
 Marine & Industrial Supply Co.
 Schwabacher Hardware Co.
 Seattle Marine & Fishing Supply Co.
 Spokane.....Broadway Splicing Shop
 Modern Machinery Co.
 Tacoma.....Paramount Supply Co.

WYOMING
 Casper.....Franklin Supply Co.
 Great Northern Tool & Supply Co.
 Houston Oil Field Material Co.
 Industrial Distributors, Inc.
 Mayhew Machine & Supply
 Worland.....Worland Machine Co.

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Colorado Fuel & Iron Corp. (Cont'd)**Grader Blade and Cutting Edge Distributors**

ALASKA
 (Seattle).....Western Tractor & Eqpt. Co.
 Yukon Equipment Co.

ARIZONA
 Douglas.....Phelps-Dodge Mercantile Co.
 Tucson.....Ronstadt Hardware Co.
 Phoenix.....Construction & Mining Supply Co.
 Equipment Sales Co.

CALIFORNIA
 Arcata.....Reliable Hardware Co.
 Berkeley.....West Coast Engine & Equipment Co.
 Downey.....Cutting Edge Supply Co.
 Emeryville.....Electric Steel Foundry Co.
 Eureka.....Aikins Tractor Co.
 Fresno.....Allied Equipment Co.
 Pittsburgh Des Moines Steel Co.
 Los Angeles.....Brown-Bewis Industrial Equipment Co.
 Crook
 Electric Steel Foundry Co.
 Shaw Sales & Service Co.
 Oakland.....Bay Cities Equipment, Inc.
 Buran Equipment Co.
 Redding.....Cascade Industrial Supply Co.
 San Francisco.....Edward R. Bacon Co.
 Coast Equipment Co.

COLORADO
 Denver.....Faris-Moritz Equipment Co.
 Liberty Trucks & Parts Co.
 MacDonald Equipment Co.
 H. W. Moore Equipment Co.
 Pueblo.....Colorado Road Machine Co.
 Mutual Machinery Co.
 Colorado Springs.....Western Bridge & Supply Co.

IDAHO
 Boise.....Engineering Sales Service, Inc.
 Intermountain Equipment Co.
 Idaho Falls.....Southern Idaho Equipment Co.

MONTANA
 Billings.....Industrial Equipment Co.
 Western Construction Equipment Co.
 Butte.....Hall-Perry Machinery Co.
 Pioneer Equipment Co.
 Kalispell.....Treasure State Equipment Co.
 Missoula.....Mountain Tractor Co.

NEVADA
 Elko.....A-D Machinery Co., Inc.
 Reno.....Pioneer Equipment Co. of Nevada
 Sierra Machinery Co., Inc.

NEW MEXICO
 Albuquerque.....The Harry Cornelius Co.
 Lively Equipment Co.
 Las Cruces.....The Meyers Co.
 Silver City.....E. Cosgrove, Inc.

OREGON
 Klamath Falls.....Cascade Industrial Supply Co.
 Medford.....Cal-Ore Machinery Co., Inc.
 Portland.....Columbia Equipment Co.
 Contractors Equipment Corp.
 Electric Steel Foundry Co.
 Feenaughty Machinery Co.
 Howard-Cooper Corp.

UTAH
 Salt Lake City.....Arnold Machinery Co., Inc.
 Atlas Equipment Co.
 Lang Construction Equipment Co.
 Lund Machinery Co.
 Rocky Mountain Machinery Co.
 Springville.....Utah Service, Inc.

WASHINGTON
 Seattle.....Electric Steel Foundry Co.
 Feenaughty Machinery Co.
 Sahlberg Equipment, Inc.
 Western Tractor & Equipment Co.
 Yukon Equipment, Inc.
 Electric Steel Foundry Co.
 Modern Machinery Co., Inc.

WYOMING
 Casper.....Moss Equipment & Supply Co.
 Studebaker Tractor & Equipment Co.
 Cheyenne.....Keremi Tractor & Equipment Co.

COLUMBIA-GENEVA STEEL DIVISION
UNITED STATES STEEL CORP.
120 Montgomery Street
San Francisco 6, California

PRODUCTS: Steel and Steel Products; Tiger Brand Wire Rope; Aerial Tramways; Cableways and Light Suspension Bridges; Culverts; Highway Guard Rails; Steel Piles; Electrical Wire and Cable; Concrete Reinforcing Bars; Welded Concrete Reinforcing Fabric.

District Offices

ARIZONA
 Phoenix—1st Natl. Bank Bldg.
 (Continued on next page)

C. I. T.'s Pay-As-You-Depreciate Plan permits payments out of depreciation

Columbia-Geneva Steel Division (Cont'd)**CALIFORNIA**

Los Angeles—2087 E. Slauson Ave....F. S. Howard
 Sacramento—Builders Exch., Box 1462
 San Francisco—120 Montgomery St....R. H. Madden
 Stockton—1521 W. Oak St.

IDAHO

Boise—715 Grove St.

OREGON

Portland—2345 NW Nicolai.....J. W. Rimmer

UTAH

Salt Lake City—Walker Bank Bldg.....A. Walker

WASHINGTON

Seattle—Tower Bldg.....M. H. Freedman
 7th Ave. & Olive Way
 Spokane—601 Fidelity Bldg.

Distributors—Tiger Brand Wire Rope**ARIZONA**

Douglas.....Phelps Dodge Mercantile Co.
 Phoenix.....Arizona Hardware Co.
 Bill Johnson Equipment (Supply) Co.
 Equipment Sales Co.

TUCSON

Tucson.....Arizona Hardware Co.

CALIFORNIA

Avalon.....Oil Well Supply Co.
 National Supply Co.
 Bakersfield.....National Supply Co.
 Oil Well Supply Co.
 Berkeley.....J. R. Feeney
 Castaic Junction.....National Supply Co.
 Oil Well Supply Co.
 Fresno.....Bearings Supply Co.
 National Supply Co.
 Long Beach.....Oil Well Supply Co.
 Los Angeles.....Hickey Pipe & Supply Co.
 Jackson Marcus Supply Co.
 National Supply Co.
 Oil Well Supply Co.
 Oakland.....Bay Cities Equipment, Inc.
 Orcutt.....National Supply Co.
 Sacramento.....Thomson-Diggs Co.
 San Diego.....C. J. Hendry Co.
 San Francisco.....Associated Expt. & Supply Co.
 C. J. Hendry Co.
 San Pedro.....C. J. Hendry Co.
 Santa Fe Springs.....National Supply Co.
 Taft.....National Supply Co.
 Oil Well Supply Co.
 Torrance.....National Supply Co.
 Ventura.....National Supply Co.
 Oil Well Supply Co.

IDAHO

Boise.....Intermountain Equipment Co.
 Southern Idaho Equipment Co.
 Idaho Falls.....Southern Idaho Equipment Co.
 Lewiston.....Erb Hardware Co.
 Twin Falls.....Southern Idaho Equipment Co.

NEVADA

Reno.....J. R. Bradley Co.

OREGON

Coos Bay.....A. B. Daly & Co.
 Eugene.....American Steel & Supply Co.
 Klamath Falls.....Fred E. Barnett Co.
 Medford.....Cal-Ore Machinery Co.
 Portland.....American Steel Warehouse Co.
 Fred E. Barnett Co.
 Interstate Tractor & Equipment Co.
 J. E. Haseltine & Co.
 Lacey Supply Co.
 Stardrill Co.
 Prineville.....Prineville Machine & Supply Co.
 Roseburg.....Douglas Supply Co.
 Salem.....Salem Steel & Supply Co.

UTAH

Helper.....Carbon Transfer & Supply Co.
 Moab.....Cate Equipment Co.
 Salt Lake City.....Cate Equipment Co.
 Salt Lake Hardware Co.

WASHINGTON

Bellingham.....Morse Hardware Co.
 Everett.....Agnew Hardware Co.
 Hoquiam.....F. G. Foster Co.
 Raymond.....F. G. Foster Co.
 Seattle.....Chas. H. Rasmussen & Co.
 Fisherles Supply Co.
 Lines, Inc.
 Tacoma.....Hunt & Mettett Co.
 Yakima.....Yakima Hardware Co.

For names and addresses of distributors of all other products, contact your local Columbia-Geneva District Office.

COMET MANUFACTURING CO.

2033 Santa Fe Avenue
 Los Angeles 21, California

PRODUCTS: Radial Power Saws; Adjustable Cut-Off Stop Gauges; Quick-Set Dado; Metal Cutting Machines; Metal and Woodworking Machinery.

Distributors

NATIONAL DISTRIBUTION.

THE COMMERCIAL SHEARING & STAMPING CO.

Box 239

Youngstown 1, Ohio

PRODUCTS: Tunnel Lining Products; Oil Hydraulic Controls; Heavy Steel Stampings and Forgings.

Western Plant**UTAH**

Salt Lake City—P.O. Box 2036.....R. M. O'Neil

THE CONCRETE SURFACING MACHINERY CO.

4665 Spring Grove Avenue
 Cincinnati 32, Ohio

PRODUCTS: Concrete Surfacers; Hiway Surfacers.

Distributors**ARIZONA**

Phoenix.....Equipment Sales Co.

CALIFORNIA

Los Angeles.....Garlinghouse-Fremont & Co.
 M. N. Thackaberry
 San Francisco.....Edward R. Bacon Co.
 Coast Equipment Co.

COLORADO

Denver.....Booth-Rouse Equipment Co.

IDAHO

Boise.....Intermountain Equipment Co.

MONTANA

Butte.....Pioneer Equipment & Supply Co.
 Missoula.....Westmont Tractor Co.

NEW MEXICO

Albuquerque.....Contractors Equipment & Supply Co.
 N. C. Ribble Co.

OREGON

Portland.....Clyde Equipment Co.

UTAH

Salt Lake City.....C. H. Jones Equipment Co.
 National Equipment Co.

WASHINGTON

Seattle.....Andrews Mch. of Washington, Inc.
 Clyde Equipment Co.
 Spokane.....Construction Equipment Co.

CONCRETE TECHNOLOGY CORP.

1123 Port of Tacoma Road
 Tacoma 2, Washington

PRODUCTS: Prestressed and precast concrete structural members for bridges, buildings and other structures.

CONCRETE TRANSPORT MIXER CO.

4985 Fyler Avenue
 St. Louis 9, Missouri

PRODUCTS: Truck Mixers; Miscellaneous Construction Machinery.

Distributors**ARIZONA**

Phoenix.....Superior Coach Sales & Service

COLORADO

Denver.....Rental Machinery Co.

NEW MEXICO

Albuquerque.....Construction Machinery Co.

CONCUT SALES, INC.

1845 Belcroft Avenue
 El Monte, California

PRODUCTS: Concrete Saws: Multi-bladed Joint Saws; Precision Bump Cutter; Masonry Saws; Diamond Blades for concrete and masonry saws; Abrasive Blades for concrete and masonry saws.

Representatives**ARIZONA**

Tucson—5794 Eastland Ave.....Chas. M. Cribbs
 District Manager

CALIFORNIA

El Monte—1845 Belcroft Ave.....C. W. Hatcher, G. M.
 D. J. Louden, S. M.

Distributors**ARIZONA**

Phoenix.....McDermott Equipment Co.

TUCSON

Tucson.....Err's Rental Co.

CALIFORNIA

Burlingame.....Masonry Supply Co.
 Fresno.....Decker Rentals Co.
 Lancaster.....Acme Rents

(Continued in next column)

Concut Sales, Inc. (Cont'd)

Los Angeles.....W. J. Burke & Co.
 Hunt Process Co.
 Mine & Milling Co.
 Rental Yard Supply Co.
 Oakland.....W. J. Burke & Co.
 California Rents
 National Expansion Joint Co.
 Ontario.....Wolfe & Sons
 Redding.....Stewarts Masonry Supply
 Sacramento.....W. J. Burke & Co.
 Salinas.....Cement Prods. & Masonry Supply
 San Diego.....Merchant Distributing Co.
 Squires Belt Co.
 San Francisco.....W. J. Burke & Co.
 Watsonville.....Farmers Mercantile Co.

COLORADO

Denver.....Rocky Mountain Equipment Co.

IDAHO

Boise.....Intermountain Equipment Co.

NEW MEXICO

Albuquerque.....McCaffrey-Way Co.

OREGON

Eugene.....Cramer Machinery Co.
 Portland.....Cramer Machinery Co.

WASHINGTON

Seattle.....Charles R. Watts Co.

CONE AUTOMATIC MACHINE CO., INC.**CONOMATIC-PIPPIN DIVISION**

41 River Street
 Windsor, Vermont

PRODUCTS: Pippin Excavators with Catch Basin, Rock Drill and Backfill Blade Attachments; Pippin Front End Loaders with capacity up to 1 1/2 yards; Pippin Angling Bulldozer Blades with snow plow attachments.

Sales Representatives**CALIFORNIA**

Walnut Creek.....81 Los Cerritos Place.....Dale Fullenwider

OREGON

Portland.....1046 NE 62nd St.....Marlowe Garrettson

Distributors**ALASKA**

(Portland).....R. M. Wade Co.

CALIFORNIA

Santa Ana.....H. C. Shaw Co.
 Stockton.....H. C. Shaw Co.

COLORADO

Denver.....Interstate Tractor Sales

IDAHO (W)

(Portland).....R. M. Wade Co.

OREGON

Portland.....R. M. Wade Co.

WASHINGTON

(Portland).....R. M. Wade Co.

CONSOLIDATED WESTERN STEEL DIV.

U.S. Steel Corp.
 P.O. Box 2015, Terminal Annex
 Los Angeles 54, California

PRODUCTS: Aerial Tramways; Bins; Highway Guard Rails; Penstocks; Smoke Stacks; Stand Pipes; Storage Bins; Tanks; Corrugated Metal Pipe; Steel Pipe; Well Casing.

District Manager**ARIZONA**

Phoenix—600 W. Grant St.....F. M. Aspey

Sales Offices**CALIFORNIA**

Bakersfield—1710 Oak St.....R. S. Bruce
 Fresno—2421 California Ave.....C. T. Osborne
 San Francisco—120 Montgomery.....H. G. Thode

UTAH

Salt Lake City—P. O. Box 96.....T. Boastfield

WASHINGTON

Seattle—1729 Exch. Bldg.....H. Haynes

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
 Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
 Equitable Building, Portland

CONSTRUCTION MACHINERY CO.

Glenwood & Vinton
Waterloo, Iowa

PRODUCTS: Truck Mixers; Concrete Mixers; Central Plant Mixers; Plaster & Mortar Mixers; Contractors' Pumps; Hoists.

West Coast Representative

Waterloo—Box 120.....Edw. R. Daley

Distributors

ALABAMA.....Shriver Machinery Co.
ALASKA.....Shaw Sales & Service
ARIZONA.....Edward F. Taylor Machinery Co.
ARIZONA.....Freenaughty Machinery Co.
ARIZONA.....Industrial Equipment Co.
ARIZONA.....Westmont Tractor & Equipment Co.
ARIZONA.....Lively Equipment Co.
ARIZONA.....Freenaughty Machinery Co.
ARIZONA.....Heiner Equipment & Supply Co.
ARIZONA.....Hatten Machinery Co.

CONTINENTAL MOTORS CORP.

205 Market Street
Muskegon 82, Michigan

PRODUCTS: Red Seal Internal Combustion Engines, Air-cooled from 1½ to 3 HP, and Liquid-cooled from 10 to 270 HP, for use on all standard fuels, engineered to specialized needs in agriculture, transportation and industry and built to more than 2,000 different specifications.

Regional Office and Warehouse

ALABAMA.....B. F. Tobin, Jr.
ALABAMA.....J. O. Longenecker
ALABAMA.....B. F. Tobin, III
ALABAMA.....L. G. Greenwood

Western Sales and Service Representatives

ALABAMA.....G. L. Hitchcock
ALABAMA.....Frank Shanahan

Distributors

ALABAMA.....Automotive Sales Co.
ALABAMA.....State Tractor & Equipment Co.
ALABAMA.....Glenn Rose Engine Service
ALABAMA.....Valley Auto Supply
ALABAMA.....Art Schedler's Engine Rebuilders
ALABAMA.....Smith & Thorp
ALABAMA.....Harval Truck Equipment Co.
ALABAMA.....M & M Truck Parts
ALABAMA.....Barnes Machine Shop
ALABAMA.....California Equipment Co.
ALABAMA.....Gerlinger Motor Parts
ALABAMA.....Auto Gear & Supply Co.
ALABAMA.....California Equipment Co.
ALABAMA.....Penniman & Richards
ALABAMA.....Blystone Equipment Co.
ALABAMA.....James Requarth
ALABAMA.....Nickson's Motor Parts & Machine Shop
ALABAMA.....Automotive Parts
ALABAMA.....Motor Mercantile Co.
ALABAMA.....Blystone Equipment Co.
ALABAMA.....Automotive Equipment Co.
ALABAMA.....Motor Mercantile Co.
ALABAMA.....Kellogg Automotive
ALABAMA.....A. H. Cox & Co.
ALABAMA.....Skaggs Automotive, Inc.

THE CONVEYOR CO.

3260 East Slauson Avenue
Los Angeles 58, California

PRODUCTS: Batches; Belt Fasteners; Blndicators; Bins; Conveyors; Crushers; Crushing Plants; Crushing Rolls; Elevators; Feeders; Steel Forms; Gravel Plants; Grizzlies; Hoppers; Jaw Crushers; Mixing Plants; Rock and Gravel Equipment; Screens; Storage Bins; Street Sweepers; Tunnel and Dam Forms; Vibrators; Washing Plants; Weighing Batches; Batch Printing Recorders; Conveyor Scales; Sand Dewatering Equipment.

COOK BROS. EQUIPMENT CO.

3334 San Fernando Road
Los Angeles 65, California

PRODUCTS: Heavy Duty Trucks; Truck Equipment; Truck Mixers; Crane Carriers; Dual Chain Drives; Dual Gear Drives; Dump Bodies; Hydraulic Hoists; Trailers; Telescopic Dump Trailers; Bottom Dump Trailers; Semi Trailers and Trains; Six-Wheel Attachments; Frame Extensions; Instant-Trowel Concrete Finisher; Runabout Portable Batch Plant; Plaster Applying Machines.

Factory Branch Managers

ARIZONA.....M. H. Anderson
CALIFORNIA.....K. E. Yorke
CALIFORNIA.....A. O. Swanson

Rocky Mountain Regional Manager

WASHINGTON.....E. H. Hearing

Distributors

ARIZONA.....(F) W. J. Burke & Co.
CALIFORNIA.....(F) W. J. Burke & Co.
COLORADO.....(F) Air Rentals, Inc.
COLORADO.....(RMT) Jacobs-Kerr & Co.
IDAHO.....(RMFT) Harris Truck & Equipment Co.
MONTANA.....(RMT) Seitz Machinery Co., Inc.
MONTANA.....(T) Roberts Truck & Parts Co.
NEW MEXICO.....(F) W. J. Burke & Co.
OREGON.....(F) W. J. Burke & Co.
OREGON.....(RMT) Cramer Machinery Co.
UTAH.....(F) W. J. Burke & Co.
UTAH.....Intermountain Concrete Specialties Co.
UTAH.....(RMT) Harris Truck & Equipment Co.
WASHINGTON.....(F) W. J. Burke & Co.
WASHINGTON.....(RMT) Reo Washington Sales Co.
Spokane.....Andrews Equipment Service of Wash., Inc.
WYOMING.....(RMT) Jacobs-Kerr & Co.
WYOMING.....Challenge Instant-Trowel Concrete Finisher
WYOMING.....Challenge Truck Mixers
WYOMING.....Challenge Runabout Portable Batch Plant
WYOMING.....Cook Bros. End Dumps, Bottom Dumps, Semi Trailers and Trains.

COPPERWELD STEEL CO.

Wire & Cable Division
Glassport, Pennsylvania

PRODUCTS: Anchors, Brick and Furring; Boundary Line Survey Markers; Highway and Street Markers; Survey Markers; Wall Ties, Brick Veneer and Cavity.

Factory Branches

CALIFORNIA.....A. B. Leach
WASHINGTON.....Ralph Craig

CREATIVE METALS CORP.

See WATSON—C M E T C O

CROSBY-LAUGHLIN DIVISION

2511 Taylor Street
Fort Wayne, Indiana

PRODUCTS: Blocks and Sheaves; Fittings, Wire Rope and Chain.

District Representative

WASHINGTON.....C. L. Rolf
Seattle—American Hoist Pacific.....4975-3rd Avenue

District Managers

CALIFORNIA.....J. F. Bishop
PALM SPRINGS.....2208 Rocky Point Place
WASHINGTON.....R. H. Lampman
Seattle—4975-3rd Avenue

THE F. D. CUMMER & SON CO.

2110 East 21st Street
Cleveland 15, Ohio

PRODUCTS: Asphalt Plants, batch-type, portable and stationary; Storage Bins; Aggregate Dryers from 50 to 210 tons per hour; Dust Collectors; Bucket Elevators; Pugmills or Mixers from 2000 to 8000 pounds.

Distributors

COLORADO.....Constructors Eqpt. Co., Inc.
UTAH.....Lund Machinery Co.

CUMMINS ENGINE CO., INC.

Fifth and Union Streets
Columbus, Indiana

PRODUCTS: Lightweight High-Speed Diesel Engines (60-600) for: On-Highway Trucks; Off-highway Trucks; Buses; Tractors; Earth-movers; Shovels; Cranes; Industrial Locomotives; Air Compressors; Logging Yards and Loaders; Drilling Rigs; Centrifugal Pumps; Generator Sets and Power Units; Work Boats and Pleasure Craft.

Regional Managers

CALIFORNIA.....727 W. 7th St.
COLORADO.....J. E. Grimmer
WASHINGTON.....J. A. Ardington

Distributors

ALASKA.....Cummins Alaska Service, Inc.
ARIZONA.....Cummins Arizona Diesel, Inc.
ARIZONA.....Branches: Flagstaff, Holbrook
CALIFORNIA.....Cummins Service & Sales
CALIFORNIA.....Watson & Meehan
CALIFORNIA.....Cummins Service & Sales
CALIFORNIA.....Cummins Service & Sales
CALIFORNIA.....Watson & Meehan
CALIFORNIA.....Watson & Meehan
CALIFORNIA.....Watson & Meehan
COLORADO.....Cummins Diesel Sales Corp.
IDAHO.....Cummins Ida., Inc.
MONTANA.....Cummins Diesel Sales of Mont., Inc.
NEVADA.....Watson & Meehan
NEW MEXICO.....Cummins Rio Grande Sales & Service
NEW MEXICO.....Cummins Sales & Service, Inc.
NEW MEXICO.....Cummins Sales & Service, Inc.
OREGON.....Cummins Diesel Sales of Ore., Inc.
OREGON.....Cummins Diesel Sales of Ore., Inc.
UTAH.....Cummins Intermountain Diesel Sales
WASHINGTON.....Cummins Diesel Sales of Wash., Inc.
WASHINGTON.....Cummins Diesel Sales, Inc.
WYOMING.....Cummins Diesel Sales Corp.

**C. I. T. provides experienced financing for
Distributors and Contractors**

CURTISS-WRIGHT CORP.

South Bend Division
Construction Machinery
South Bend, Indiana

PRODUCTS: Self-Propelled Scrapers; Self-Propelled Dumpers; Tractor-Drawn Scrapers; Power Control Units; Rippers; Rubber-Tired Tractors.

District Sales Managers

ARIZONA
Phoenix—3921 E. Elm Drive.....William Marsh
CALIFORNIA
Santa Rosa—801 Spring St.....R. M. Ashley

District Service Representatives

CALIFORNIA
Santa Clara—180 Serena Way.....W. D. McKinney
Sunnyvale—569 Walte Ave.....M. A. Biser

Distributors

CALIFORNIA
Los Angeles.....Smith Booth Usher Co.
San Francisco.....Edward R. Bacon Co.
COLORADO
Denver.....Faris-Moritz Equipment Co.
NEVADA
Reno.....General Equipment Co.
NEW MEXICO
Albuquerque.....Construction Machinery Co.
OREGON
Portland.....Columbia Equipment Co.
UTAH
Salt Lake City.....Kimball Equipment Co.
WASHINGTON
Seattle.....Columbia Equipment Co.
Spokane.....Columbia Equipment Co.

CYCLONE SANDBLAST EQUIPMENT CO.

42 Clara Street
San Francisco 7, California

PRODUCTS: Sand Blasting Machinery and Plaster Spray Machines.

Distributors

ARIZONA
Phoenix.....Arizona White Eagle Stucco Southwest Machine Tool Co.
CALIFORNIA
Albany.....Atlas Welding & Supply, Inc.
Alhambra.....La Habra Stucco Co.
Eureka.....F. A. Matthews & Son
Fresno.....Star Stucco Products Co.
Los Angeles.....Balloon Tire Mould Co., Inc.
Morrissey Equipment Co.
Rental Yard Supply Corp.
Oakland.....Heidt Equipment Co.
Ricker Machinery Co.
Redwood City.....Franklin B. Lyons
Sacramento.....Sacramento Sky Ranch
San Diego.....Expo Stucco Co., Inc.
San Francisco.....California Stucco Products Co.
Maintenance Materials
Pauli & Griffin
Smith Industrial Supply Co.
Victor Equipment Co.
Stucco Supply of San Jose
Santa Ana.....Blystone Equipment Co.
St. Helena.....Perlite Aggregates
Stockton.....Waco Scaffolding & Equipment Co.
Van Nuys.....Highland Stucco & Lime Products
COLORADO
Denver.....Western Machinery Co.
OREGON
Portland.....Davis Industrial Products Co.
UTAH
Salt Lake City.....Taylor Machinery & Supply
Western Machinery Co.
WASHINGTON
Seattle.....Northwest Scaffold & Equipment
Ferris Equipment Co.

D & M MACHINE WORKS

2304 Abalone Avenue
Torrance, California

PRODUCTS: Bottom Rollers (bearing-type) for crawler tractors.

Distributors

ALASKA
(Seattle).....Western Tractor & Equipment Co.
(Continued in next column)

D & M Machine Works (Cont'd)

ARIZONA
Phoenix.....Equipment Sales Co.
CALIFORNIA
Calxico.....Bates & Osborn, Inc.
Eureka.....McGaraghan Supply Co.
Fresno.....Rol-Pak Filter Service
Los Angeles.....Gorman & Co.
Marysville.....Peterson Equipment Co.
Redding.....Paul Droscher Sales
Redwood City....."Lewie's" Track Service
Ukiah.....Reliable Mill & Supply Co.
IDAHO
Boise.....Intermountain Equipment Co.
MONTANA
Great Falls.....Monty Machinery Co.
NEW MEXICO
Albuquerque.....Equipment Sales Co.
OREGON
Coquille.....Enlund Equipment Co.
Eugene.....Eugene Equipment Co.
John Day.....Moty & Van Dyke
Klamath Falls.....Fred E. Barnett Co.
Portland.....Timberline Equipment Co.
Roseburg.....Carl Johnson
UTAH
Salt Lake City.....Rasmussen Equipment & Supply
WASHINGTON
Aberdeen.....Whitcher Machinery Co.
Chehalis.....Western Tractor & Equipment Co.
Seattle.....Western Tractor & Equipment Co.
Spokane.....Intermountain Equipment Co.
WYOMING
Casper.....Keremi Tractor & Equipment Co.
Cheyenne.....Keremi Tractor & Equipment Co.

DART MANUFACTURING & SALES CO.

1002 South Jason Street
Denver 23, Colorado

PRODUCTS: Complete Line of Concrete Vibrators (high cycle, gasoline, pneumatic, electric, and form vibrators); Vibrating Screeds; Air Motors; Rotary Concrete Finishers; Angle Head Grinders; Sump Pumps; Soil and Blacktop Impactors; Prestress Sabre Vibrator Blades.

District Sales Manager.....John H. James

Distributors

ARIZONA
Phoenix.....Lee Redman Equipment Co.
CALIFORNIA
Los Angeles.....Mine & Mill Machinery Co.
San Francisco.....Coast Equipment Co.
COLORADO
Denver.....Rental Machinery Co.
John Steele Machinery Co.
IDAHO
Idaho Falls.....Arnold Machinery Co.
MONTANA
Butte.....Hall-Perry Machinery Co.
NEW MEXICO
Albuquerque.....McCaffrey-Way, Inc.
UTAH
Salt Lake City.....Arnold Machinery Co.
WASHINGTON
Seattle.....Star Machinery Co.
WYOMING
Cheyenne.....Keremi Tractor & Equipment Co.

DAVEY COMPRESSOR CO.

600 Franklin Avenue
Kent, Ohio

PRODUCTS: Portable Compressors; Stationary Compressors; Truck Mounted Compressors; Field Repair Units; Air Tools; Rock Drills; Truck Mounted Rotary Drills.

Distributors

ARIZONA
Phoenix.....Superior Equipment Co.
CALIFORNIA
Los Angeles.....Larson Equipment Co.
COLORADO
Denver.....Booth-Rouse Equipment Co.
Truck Equipment Co.
MONTANA
Billings.....Rental Equipment Co.
NEVADA
Las Vegas.....Clark County Wholesale Mercantile Co.
NEW MEXICO
Albuquerque.....Construction Machinery Co.

DAYBROOK HYDRAULIC DIVISION

Young Spring & Wire Corp.
500 Lehman Avenue
Bowling Green, Ohio

PRODUCTS: Dump Bodies and Hydraulic Hoists for trucks and trailers; Truck-Mounted Hydraulic Cranes; Hydraulic Tail Gate Lifts.

Western Zone Manager

CALIFORNIA
Los Angeles—1355 Westwood Blvd.....Lyle Johnson
Suite 201

Distributors

ARIZONA
Phoenix.....Western Truck Equipment Co.
CALIFORNIA
Fresno.....Utility Trailer Sales Co.
Los Angeles.....Standard Carriage Works
Maywood.....Western Body & Hoist Co.
San Francisco.....Transport Supply Co.
COLORADO
Denver.....Timphe Bros., Inc.
IDAHO
Boise.....Carl R. Burt Equipment Co.
MONTANA
Joplin.....McClellan's, Inc.
Missoula.....Superior Coach Sales
NEW MEXICO
Albuquerque.....Timphe Bros., Inc.
OREGON
Portland.....Air Mac, Inc.
Utility Trailer & Ept. Co.
UTAH
Salt Lake City.....Flinco, Inc.
WASHINGTON
Seattle.....Air Mac, Inc.
Transport Trailer & Ept. Co.
Spokane.....Air Mac, Inc.
Spokane Machinery Co.

DAYTON SURE-GRIP & SHORE CO.

504 Kercher Street
Miamisburg, Ohio

PRODUCTS: Accessories for Concrete Construction Wall Ties — snap-in or coil; Hanger Frames — saddle type or coil; Anchors — stone, brick or slot; Tilt-up Slab Accessories; Accessories for Reinforced Concrete; Dowel Baskets; Column Clamps; Inserts; Anchor Slots; Screw Anchors; Seal Brackets.

Distributor

CALIFORNIA
San Francisco.....Westates Products Co.

JOHN DEERE, INDUSTRIAL DIVISION

1325-3rd Avenue
Moline, Illinois

PRODUCTS: Crawler and Wheel-Type Tractors; Loaders; Rear Blades; Snow Plows; Backhoes; Bulldozers; Cranes; Sidebooms; Fork Lifts; Mowers; Wagons; Scarifiers; Stationary Engines.

Branches

CALIFORNIA
San Francisco—Box 3573 Rincon Annex.....J. Bohmke
(Arizona, California and Nevada)
OREGON
Portland—215 SE Morrison St.....A. G. McClellan
(Alaska, California, Idaho, Montana, Oregon, Utah, Washington and Wyoming)

DETROIT DIESEL ENGINE DIVISION

General Motors Corporation
13400 West Outer Drive
Detroit 28, Michigan

PRODUCTS: Two-Cycle Diesel Engines 30 to 300 HP Single Engines; Up to 893 HP Multiple Engines; Fan-to-Flywheel and Base Mount (Package Power) Units; 20 to 245 KW Generator Sets for "Off-the-Line" Standby Service.

Western Regional Manager

CALIFORNIA
San Francisco—1426 Russ Bldg.....R. L. Burr
(Continued on next page)

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
Equitable Building, Portland

Detroit Diesel Engine Division (Cont'd)

Distributors and Dealers

ALASKA
Anchorage.....Evans Engine & Eqt. Co., Inc.
Sitka.....Sitka Engine & Eqt. Co.

ARIZONA
Phoenix.....The Diesel Service Co.
St. Johns.....Whiting Bros.

CALIFORNIA
Bakersfield.....Lawless Brothers, Inc.
Berkeley.....Williams & Lane, Inc.
Eureka.....Ryerson-Lucas Equipment Co.
Fort Bragg.....West Coast Engine & Machine Wks.
Los Angeles.....Anderson-O'Brien Co.
Marysville.....Randolph Machinery Co.
Redding.....Rother Auto Parts
Sacramento.....Rhea Tractor & Engine Co.
San Diego.....Crofton Diesel Engine Co., Inc.
San Pedro.....Anderson-O'Brien Co.
Stockton.....R. & L. Diesel Service
Ventura.....Gem Equipment Co.
Visalia.....Tulare County Tractor Co.

COLORADO
Denver.....The Colorado Builders Supply Co.
Fort Morgan.....D & H Diesel Power, Inc.

IDAHO
Reno.....Sierra Machinery Co., Inc.

NEW MEXICO
Albuquerque.....Southwest Engine Co., Inc.
Clovis.....Western Machinery Co.
Farmington.....Southwest Engine Co., Inc.

OREGON
Coos Bay.....Harbor Diesel & Supply Co.
Eugene.....Gunderson Bros. Engineering Corp.
Medford.....Witham Parts & Equipment Co.
Newport.....Newport Diesel Service
Portland.....Gunderson Bros. Engineering Corp.

UTAH
Moab.....Cate Equipment Co., Inc.
Salt Lake City.....Cate Equipment Co., Inc.

WASHINGTON
Seattle.....Evans Engine & Equipment Co., Inc.
Spokane.....Intermountain Equipment Co.

WYOMING
Casper.....The Colorado Builders Supply Co.

E. WALT, INC.

Fountain Avenue
Lancaster, Pennsylvania

PRODUCTS: Woodworking and Metal Machinery; Radial
Arm Saws; Tools and Accessories.

Representatives

CALIFORNIA
Beverly Hills—9385 Charleville Rd.....W. H. Dudley
San Mateo—431 Stephen Rd.....J. C. Hendricks

COLORADO
Arvada—5975 Dover St.....F. J. Gregory

WASHINGTON
Bellevue—9631 Hilltop Rd.....R. A. Hummert

DIAMOND CHAIN CO., INC.

402 Kentucky Avenue
Indianapolis 7, Indiana

PRODUCTS: Sprockets; Finished Steel Roller Chain;
Flexible Shaft Couplings.

Representatives

CALIFORNIA
Los Angeles—900 Santa Fe Ave.....J. H. Crews
Menlo Park—595 Santa Cruz.....H. W. King, D. M.

Distributors

ARIZONA
Flagstaff.....Semon Industrial & Welding Supply Co.
Phoenix.....Semon Bearing & Supply Co.
Tucson.....Tucson Bearing Co.

CALIFORNIA
Arcata.....Reliable Hardware Co., Inc.
Bakersfield.....Power Transmission Equipment Co.
Fresno.....Pacific Mill & Mine Supply Co.
Los Angeles.....Degen-Fiege Co.
Power Transmission Equipment Co.
Sacramento.....Western Industrial Supply Co.
San Francisco.....Horsford Bros.
Monarch Corporation
San Leandro.....Monarch Corporation
Santa Clara.....Monarch Corporation
Stockton.....Hickinbotham Bros.

COLORADO
Denver.....Colorado Bearing Co.

IDAHO
Boise.....Western Conveyor Co.
Pocatello.....Pocatello Plumbing &
Industrial Supply, Inc.

(Continued in next column)

Diamond Chain Co., Inc. (Cont'd)

MONTANA
Billings.....Power Transmission Equipment Co.
Great Northern Tool & Supply Co.
Cutbank.....Great Northern Tool & Supply Co.
Kevin.....Great Northern Tool & Supply Co.

NEW MEXICO
Albuquerque.....The Harry Cornelius Co.

OREGON
Eugene.....Bearing Sales & Service
Portland.....Bearing Sales & Service
Woodbury & Co.
Roseburg.....Bearing Sales & Service

UTAH
Salt Lake City.....Utah Sprocket & Machinery Co.

WASHINGTON
Aberdeen.....Mill & Logging Supply Co.
Everett.....Washington Belting & Rubber Co.
Longview.....Bearing Sales & Service
Seattle.....Washington Belting & Rubber Co.
Tacoma.....Washington Belting & Rubber Co.
Walla Walla.....White Bros. Co.

DIAMOND IRON WORKS

Div. of Goodman Manufacturing Co.
4834 S. Halsted Street
Chicago 9, Illinois

PRODUCTS: Crushing and/or Screening and/or Wash-
ing Plants, both portable and stationary;
Jaw Crushers; Roll Crushers; Screens;
Washers; Portable or Stationary Convey-
ors; Apron or Plate Feeders; Bins; Hop-
pers; Hammermills; Wood Hogs; Rope Belt
Conveyors.

District Sales Manager

COLORADO
Denver—2420 Olive St.....George McCorison

Distributors

ALASKA
(Seattle).....The Carrington Co.

ARIZONA
Phoenix.....State Tractor & Equipment Co.
(Albuquerque).....J. D. Coggins Co.

CALIFORNIA
E. Los Angeles.....Shaw Sales & Service Co.
Oakland.....Sun Equipment Co.
San Diego.....Construction Machinery Co.

COLORADO
Denver.....Western Machinery Co.

IDAHO
Boise.....The Sawtooth Co.
(Spokane).....Western Machinery Co.

MONTANA
Billings.....Seitz Machinery Co.

NEVADA
(Oakland).....Sun Equipment Co.
(E. Los Angeles).....Shaw Sales & Service Co.

NEW MEXICO
Albuquerque.....J. D. Coggins Co.
(El Paso).....The Border Machinery Co., Inc.

OREGON
Medford.....Cal-Ore Machinery Co.
(Boise).....The Sawtooth Co.

UTAH
Salt Lake City.....Lund Machinery Co.

WASHINGTON
Seattle.....Hatten Machinery Co.
Spokane.....Western Machinery Co.

WYOMING
(Billings).....Seitz Machinery Co.
(Boise).....The Sawtooth Co.
(Denver).....Western Machinery Co.
(Salt Lake City).....Lund Machinery Co.

DIAMOND TOOL ASSOCIATES

940 East El Segundo Blvd.
Hawthorne, California

PRODUCTS: Concrete and Masonry Diamond Cutting
Blades and Core Drills; Concrete Cutting
Saws; Masonry and Tile Cutting Saws;
Diamond Blades and Drills for stone
cutting.

Distributors

ARIZONA
Phoenix.....Copperstate Supply Co.
Thompson's Arizona Carbide Center

CALIFORNIA
Bakersfield.....Bakersfield Welding Supply
Berkeley.....Central Equipment Co.
Los Angeles.....S. L. Fusco

(Continued in next column)

Diamond Tool Associates (Cont'd)

Sacramento.....Central Equipment Co.
San Francisco.....Hobelman & Co.
Vermarco Supply Co.

COLORADO
Boulder.....Industrial Diamond Sales
Denver.....Armstrong Caster Co.

UTAH
Salt Lake City.....Lund Machinery Co.

DIXON VALVE & COUPLING CO.

Second St. & Columbia Ave.
Philadelphia 22, Pennsylvania

PRODUCTS: Hose Couplings and Air Valves.

Factory Branch

CALIFORNIA
Los Angeles
1160 S. Bonnie Beach Pl.....P. M. Hardwick
(Mail address—
P.O. Box 23574, Los Angeles 23, Calif.)

Regional Manager

OREGON
Portland—3935 SW 75th Ave.....Thos. P. McNiesh

DODGE DIVISION

Chrysler Corp.
7900 Jos Campau
Detroit 31, Michigan

PRODUCTS: Dodge Power-Giant Trucks.
See your nearby Dodge Truck Dealer

DORR-OLIVER, INC.

Havemeyer Lane
Stamford, Connecticut

PRODUCTS: Clarifiers; Digesters, Sewage Sludge; Dis-
tributors, Rotary Sewage; Filtration Plant
Equipment; Flocculating Equipment; Grit
Removal Equipment; Sand and Gravel
Plants; Screens, Sewage; Sewage Treat-
ment Equipment; Sludge Collectors; Sludge
Dewaterers, Mechanical; Thickeners; Wa-
ter Softening Equipment; Water Purifica-
tion Equipment; Aerators; Agitators; Fill-
ers; Vacuum Filters; Sand Plants.

Factory Branches

CALIFORNIA
Los Angeles
Oakland

COLORADO
Denver

WASHINGTON
Seattle

DOTMAR INDUSTRIES, INC.

103 N. Burdick Street
Kalamazoo, Michigan

PRODUCTS: Curb, Gutter, and Sidewalk Pavers; Mag-
nesium Curb & Gutter and Sidewalk Forms;
Front End Loader Bucket Mixer.

Distributors

ALASKA
(Seattle).....Northern Commercial Co.

CALIFORNIA
Oakland.....Sun Equipment Co.

COLORADO
Denver.....Ray Corson Machinery Co.

MONTANA
Billings.....Western Construction Eqt. Co.
Great Falls.....Western Construction Eqt. Co.

WASHINGTON
Seattle.....Andrews Machinery of Wash., Inc.

WYOMING
Cheyenne.....Kereml Tractor & Equipment Co.

DOUGLAS MOTORS CORP.

BIG CHIEF DIVISION
2025 W. Clybourn Street
Milwaukee 3, Wisconsin

PRODUCTS: Plaster and Mortar Mixers; Tilting Con-
crete Mixers; Diaphragm Pumps; Hoists
and Trestles; Snowplows.

Distributors

ARIZONA
Phoenix.....State Tractor & Equipment Co.

(Continued on next page)

**C. I. T.'s Pay-As-You-Depreciate Plan provides
long term financing for Contractors**

**Douglas Motors Corp.
Big Chief Division (Cont'd)**

CALIFORNIA
Los Angeles.....Cal-Rex Machinery Sales
San Francisco.....Coast Equipment Co.

COLORADO
Denver.....Ray Corson Machinery Co.

IDAHO
Boise.....Intermountain Equipment Co.
Pocatello.....Intermountain Equipment Co.

MONTANA
Billings.....Hall-Perry Machinery Co.
Butte.....Hall-Perry Machinery Co.
Great Falls.....Hall-Perry Machinery Co.

NEVADA
Reno.....Pioneer Equipment Co. of Nevada, Inc.

NEW MEXICO
Albuquerque.....Contractors Equipment & Supply Co.

OREGON
Portland.....Loggers & Contractors Machinery Co.

UTAH
Salt Lake City.....Arnold Machinery Co., Inc.

WASHINGTON
Spokane.....Northern Commercial Co.
Spokane.....Intermountain Equipment Co.

WYOMING
Casper.....Keremi Tractor & Equipment Co.

**DOUGLAS MOTORS CORP.
WESTERN EQUIPMENT DIVISION
2025 W. Clybourn Street
Milwaukee 3, Wisconsin**

PRODUCTS: Plaster and Mortar Mixers; Tilting Concrete Mixers; Tandem Road Rollers (1 to 2 ton); Diaphragm Pumps; Hoists and Trestles; Snowplows.

Factory Representatives

ARIZONA
Phoenix—P.O. Box 2406.....Reading Overstreet

COLORADO
Denver—1420 Ulster St.....C. A. Brown

Distributors

ALASKA
Anchorage.....Bashaw Equipment Co.

ARIZONA
Phoenix.....Granville Equipment Co.

CALIFORNIA
Los Angeles.....Santa Fe Equipment Co., Inc.

COLORADO
Denver.....Contractors' Equipment & Supply Co.

MONTANA
Billings.....Rental Equipment Co.

NEW MEXICO
Albuquerque.....New Mexico Equipment Co.

OREGON
Portland.....Oregon Rental & Equipment Sales Co.

UTAH
Salt Lake City.....Contractors Equipment & Supply Co.

WASHINGTON
Seattle.....Mutual Materials
Spokane.....Star Machinery Co.

**DRAKE-WILLIAMS-MOUNT CO.
2301 Hickory Street, P.O. Box 1126
Omaha 1, Nebraska**

PRODUCTS: Dragline Buckets.

District Sales Office

CALIFORNIA
Berkeley—Owen Bucket Co., Ltd., 2nd & Gilman Sts.
E. L. Keizer, Manager

Distributors

ALASKA
(Seattle).....Northern Commercial Co.

CALIFORNIA
Los Angeles.....Garlinghouse, Fremont & Co.
Santa Fe Equipment Co.

COLORADO
Denver.....Faris-Moritz Equipment Co.
Liberty Trucks & Parts Co.
McCoy Co.
H. W. Moore Equipment Co.

IDAHO
Idaho Falls.....Southern Idaho Equipment Co.

MONTANA
Butte.....Hall-Perry Machinery Co.

(Continued in next column)

Drake-Williams-Mount Co. (Cont'd)

NEVADA
Reno.....Sanford Tractor & Equipment Co.
Sierra Machinery Co.

NEW MEXICO
Albuquerque.....Contractors Equipment & Supply Co.
Lively Equipment Co.

OREGON
Klamath Falls.....Cascade Industrial Supply Co.
Portland.....Contractors Equipment Corp.

UTAH
Salt Lake City.....Archer Tractor & Machinery Co.
Foulger Equipment Co.
C. H. Jones Equipment Co.

WASHINGTON
Seattle.....A. H. Cox & Co.
Northern Commercial Co.
Spokane.....Western Equipment Co.

WYOMING
Casper.....Studer Tractor & Equipment Co.

**DRESSER MANUFACTURING DIVISION
44 Fisher Avenue
Bradford, Pennsylvania**

PRODUCTS: Couplings, Pipe; Fittings, Pipe; Expansion Joints; Repair Clamps, Pipe; Split Repair Sleeves, Pipe.

Factory Branch

CALIFORNIA
S. San Francisco—101 S. Airport Blvd.

Territory Representatives

CALIFORNIA
Alhambra—2308 Riegel Drive.....C. R. Keiser
S. San Francisco—101 S. Airport Blvd., C. E. Boston

COLORADO
Lakewood—555 Everett St.....M. S. Mossholder

WASHINGTON
Seattle—101 Jones Bldg.....F. R. Frey

Distributors

ARIZONA
Phoenix.....Republic Supply Co. of Calif.
Western Supply Co.
Tucson.....Amstan Supply Division

CALIFORNIA
Avenal.....Oil Well Supply Div.
Republic Supply Co. of Calif.
Bakersfield.....Bethlehem Supply Co.
Howard Supply Co.
National Supply Co.
Oil Well Supply Div.
Republic Supply Co. of Calif.
Tay-Holbrook, Inc.
Emeryville.....Grinnell Co. of the Pacific
Eureka.....Grinnell Co. of the Pacific
Fresno.....Grinnell Co. of the Pacific
Long Beach.....Bethlehem Supply Co.
Grinnell Company
Oil Well Supply Div.
Republic Supply Co. of Calif.
Los Angeles.....Bethlehem Supply Co.
Commercial Iron Works
Grinnell Company
Oil Well Supply Div.
Republic Supply Co. of Calif.
Oakland.....Howard Supply Co.
Riverside.....Smith-Scott Co., Inc.
Sacramento.....Grinnell Co. of the Pacific
Tay-Holbrook, Inc.
Salinas.....Tay-Holbrook, Inc.
San Carlos.....Tay-Holbrook, Inc.
San Francisco.....Grinnell Co. of the Pacific
Tay-Holbrook, Inc.
San Jose.....Tay-Holbrook, Inc.
Grinnell Co. of the Pacific
San Leandro.....Republic Supply Co. of Calif.
Grinnell Company
Santa Barbara.....Republic Supply Co. of Calif.
Santa Fe Springs.....Republic Supply Co. of Calif.
Santa Maria.....Republic Supply Co. of Calif.
Santa Rosa.....Tay-Holbrook, Inc.
Saugus.....Oil Well Supply Div.
Republic Supply Co. of Calif.
Stockton.....Tay-Holbrook, Inc.
Taft.....Oil Well Supply Div.
Ventura.....Bethlehem Supply Co.
Oil Well Supply Div.

COLORADO
Denver.....Thompson Pipe & Steel Co.

IDAHO
Boise.....Consolidated Supply Co.

OREGON
Eugene.....Consolidated Supply Co.
Portland.....Consolidated Supply Co.
Pacific Waterworks Supply Co.
Utilities Supply Co.
Waterworks Supplies Co.

(Continued in next column)

Dresser Manufacturing Division (Cont'd)

UTAH
Salt Lake City.....Waterworks Equipment Co.

WASHINGTON
Seattle.....Pacific Waterworks Supply Co.
Western Utilities Supply Co.
Spokane.....Consolidated Supply Co.
Waterworks Supplies Co.
Walla Walla.....Consolidated Supply Co.

WYOMING
Casper.....American Pipe & Supply Co.

**DREYER VIBRATOR CO.
509-11 East 16th Street
Los Angeles 15, California**

PRODUCTS: High Speed and Heavy Duty Concrete Vibrators.

Distributors

ARIZONA
Phoenix.....Western Machinery Co.

CALIFORNIA
Fresno.....Edward R. Bacon Co.
Los Angeles.....Smith-Booth-Usher Co.
Oakland.....Edward R. Bacon Co.
Sacramento.....Edward R. Bacon Co.
San Francisco.....Edward R. Bacon Co.

COLORADO
Denver.....Western Machinery Co.

IDAHO
Idaho Falls.....Western Machinery Co.

NEVADA
Las Vegas.....Inland Equipment Co.

UTAH
Salt Lake City.....Western Machinery Co.

**DROTT MANUFACTURING CORP.
3126 S. 27th Street
Milwaukee 15, Wisconsin**

PRODUCTS: Skid-Shovels; Skid-Loaders; Bulldozer Shovels; Scarifiers; Grubber Blades.

District Representatives

CALIFORNIA
Hayward—1775 St. Andrew St.....Charles Rieckhoff

WASHINGTON
Seattle—2564 38th Ave.....Ken Gill
See your International Harvester Company Distributor

**DUFF-NORTON CO.
Coffing Hoist Division
2709 Preble Avenue
Pittsburgh 30, Pennsylvania**

PRODUCTS: Ratchet, Screw, Hydraulic Jacks; Trench Braces; Ratchet Lever Hoists and Load Binders; Portable Electric Hoists; Hand Chain Hoists; Differential Hoists; Overhead Trolleys.

Factory Branch

CALIFORNIA
San Francisco—1016 Howard St.....M. A. Kelley
Distributors of both hoists and jacks in all principal cities.

**K. O. DUNCAN CO.
1410 Pearl Street
Boulder, Colorado**

PRODUCTS: A Multiple Piston Hydraulic Jack for breaking concrete and rock where use of explosives is prohibited.

Factory Branch

CALIFORNIA
El Monte—1526 N. Petrona Ave., Frank S. Pearne, Jr.

Distributors

ARIZONA
Phoenix.....Equipment Sales Co.

CALIFORNIA
Los Angeles.....Mine & Mill Machinery Co.
Pneumatic Machinery Co.

COLORADO
Denver.....Air Rentals, Inc.

OREGON
Portland.....Loggers & Contractors Mch. Co.

WASHINGTON
Seattle.....A. H. Cox & Co.

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
Equitable Building, Portland

GLE CRUSHER CO., INC.

900 Harding Way, East
Galion, Ohio

PRODUCTS: Jaw Crushers; Pulverizers; Hammermills;
Cage Mills; Portable Crushing Plants;
Truck Mounted Bucket Loaders.

Distributors

CALIFORNIA
Berkeley.....Work Hoist & Body Corp.
Los Angeles.....Le Roi-Rix Machinery Co.
San Diego.....Diesel Construction Eqpt. Co., Inc.
UTAH
Salt Lake City.....Westmont Tractor Co.
OREGON
Portland.....Contractors Equipment Co.
WASHINGTON
Seattle.....Williamson, Inc.
Spokane.....Hatten Machinery Co.
Inland Diesel & Machinery Co.

GLE IRON WORKS

203 Holcomb Street
Des Moines 4, Iowa

PRODUCTS: Sand, Gravel, Crushed Stone and Ore
Washing and Classifying Equipment; Sand
Washer - Classifier - Dehydrators; Water
Scalping Tanks; Revolving Cutter Head
Ladders; Traveling Screen Chain Dredging
Ladders; Gravel Washer-Dehydrators; Log
Washers (Gravel, Stone and Ore); Clay
Plant Equipment; Clay Crushers; Shale
Planers; Breaker Balls; Pile Hammers;
Follow Blocks; Stabilized Road Base
Mixers.

Distributors

ARIZONA
Phoenix.....Arizona Cedar Rapids Co.
CALIFORNIA
Los Angeles.....Brown-Bevis Industrial Eqpt. Co.
Fennholtz Machinery Co.
Walter C. Stoll & Sons
San Francisco.....Cook Bros. Truck & Equipment Co.
OREGON
Denver.....H. W. Moore Equipment Co.
UTAH
Salt Lake City.....Intermountain Equipment Co.
WASHINGTON
Seattle.....Western Construction Equipment Co.
Great Falls.....Western Construction Equipment Co.
IDAHO
Boise.....Sierra Machinery Co.
NEW MEXICO
Albuquerque.....N. C. Ribble Co.
OREGON
Portland.....Balzer Machinery Co.
UTAH
Salt Lake City.....Lang Construction Equipment Co.
WASHINGTON
Seattle.....Sahlberg Equipment, Inc.
Spokane.....Intermountain Equipment Co.
OREGON
Portland.....Keremi Tractor & Equipment Co.
Kennewick.....Keremi Tractor & Equipment Co.

EARTH EQUIPMENT CORP.

1409 Santa Fe Avenue
Los Angeles 21, California

PRODUCTS: Trenchers; Dozers.

Factory Branch Managers

CALIFORNIA
Los Angeles—1409 Santa Fe Ave.....Wm. J. Bradley
Stockton—1030 E. Church St.....Wayne Uliery

Distributors

ARIZONA
Phoenix.....Earth Equipment Corp.
CALIFORNIA
Los Angeles.....Earth Equipment Corp.
OREGON
Portland.....McCarty-Sherman Dist. Corp.
NEW MEXICO
Albuquerque.....Western Tractor Corp.
UTAH
Salt Lake City.....R. M. Wade & Co.
WASHINGTON
Seattle.....R. M. Wade & Co.

EARTHCAVATOR CO., INC.

14882 E. Firestone Blvd.
Buena Park, California

PRODUCTS: Scrapers with Scarifier Teeth; Buckets for
Front End Loaders; Shovels for Backhoes.

Distributors

CALIFORNIA
Los Angeles.....Tractor Equipment Distributors
Richmond.....Pacific Tractor & Implement
COLORADO
Denver.....McCarty-Sherman Distributing Co.
OREGON
Portland.....Columbia Tractor & Implement
UTAH
Salt Lake City.....Intermountain Ford Tractor

EATON MANUFACTURING CO.

Axle Division
739 East 140th Street
Cleveland 10, Ohio

PRODUCTS: Single and Tandem Drive Truck Axles of
Single Reduction, Double Reduction and
2-Speed Types; Front Truck Axles.

Western Regional Sales Manager

CALIFORNIA
La Mirada—14936 E. Tacuba.....B. D. Hubbell

Distributors

See your local truck dealer

ECONOMY FORMS CORP.

4301 Northeast 14th Street
Des Moines 13, Iowa

PRODUCTS: Steel Forms for concrete construction; Ties
for Economy and EFCO Forms.

Factory Branch Managers

CALIFORNIA
Los Angeles—5718 Long Beach Ave.....Al Baker
COLORADO
Denver—2863 Walnut St.....E. L. Morrett
WASHINGTON
Seattle—825 Stacey.....R. L. Jennings

Representatives

CALIFORNIA
Los Angeles—5718 Long Beach Ave.....R. B. Crowe
R. W. Kiel
R. J. Finger
Oakland—190 MacArthur Blvd.....L. S. Dingman
R. E. Thomas
COLORADO
Denver—2863 Walnut St.....Alva Long
WASHINGTON
Seattle—825 Stacey.....R. K. Doty

EDGEWATER AUTOMOTIVE DIVISION
St. Joseph, Michigan

PRODUCTS: Hydraulic Hand and Service Jacks, 1/4 to
20-ton capacity; Garage Trestles; Hydraul-
ic Mobile Shop Cranes.

Distributed by Colyear Motor Sales Co.
in the Following Cities:

ARIZONA
Phoenix
CALIFORNIA
Fresno, Los Angeles, Oakland, San Diego, San
Francisco
OREGON
Portland
WASHINGTON
Seattle
Spokane

E. H. EDWARDS CO.
Butler Road and Industrial Way
South San Francisco, California

PRODUCTS: Wire Rope.

Factory Branches

CALIFORNIA
Riverside.....8454 E. Trojan St.
OREGON
Portland.....2690 NW Nicolai St.
WASHINGTON
Seattle.....504 W. Idaho

THE EIMCO CORP.

634 South Fourth West Street
P.O. Box 300
Salt Lake City 10, Utah

PRODUCTS: Crawler Tractors; Bulldozers; Angledozer;
Loaders (Diesel, for surface); (Air, Elec-
tric, for underground); Solid Scrapers;
Folding Scrapers (Mining); Filters, all
types vacuum and pressure.

Factory Branches

CALIFORNIA
Berkeley—637 Cedar St.....J. K. Russell
San Mateo—420 Peninsular Ave.....E. M. Kelly

ELECTRIC STEEL FOUNDRY CO.

2141 Northwest 25th Avenue
Portland 10, Oregon

PRODUCTS: Draglines; Dippers; Fastback Hoe Dippers;
Orange Peels; Trencher Teeth; Clamshell
Buckets; Grapples; Points; Adapters;
Blades; Blade Ends; Dozer-Rooters; Drag-
line Bucket Replacement Parts and Rig-
ging.

Factory Branch Managers

CALIFORNIA
Emeryville—1280 65th St.....Ted Smith
Los Angeles—6415 E. Corveta St.....Joe Blake
COLORADO
Denver—3940 Grape St.....Gordon Ley
OREGON
Eugene—1464 W. Sixth St.....Lloyd Maxwell
WASHINGTON
Seattle—1131 W. Hanford St.....Bill Latimer
Spokane—N. 1327 Washington.....Elwood Powers

District Representatives

ARIZONA
Phoenix—P. O. Box 7265.....Rolly Topping
UTAH
Salt Lake City—P. O. Box 1379.....Frank Cook

Distributors

ARIZONA
Phoenix.....Arizona Machinery Co.
COLORADO
Denver.....Faris-Moritz Equipment Co.
IDAHO
Boise.....Intermountain Equipment Co.
Pocatello.....Intermountain Equipment Co.
UTAH
Salt Lake City.....Foufger Equipment Co.
WASHINGTON
Spokane.....Intermountain Equipment Co.

ELECTRIC TAMPER & EQUIPMENT CO.

Ludington, Michigan
See listing under JACKSON VIBRATORS, INC.

EMPIRE BLDG. MATERIAL CO.

9255 N.E. Halsey Street
Portland 20, Oregon

PRODUCTS: Light-weight and heavy-weight Concrete
Blocks; Prestressed Beams and Slabs; Ex-
panded Shale Aggregate.

ENGINEERED EQUIPMENT, INC.

1001 Linden Avenue
Waterloo, Iowa

PRODUCTS: Batch Plants; Ready Mix Concrete Plants;
Cement Storage Plants; Bulk Bins; "JET-
CRETERS" for pneumatically applying
concrete; Masonry and Concrete Saws and
Blades; "Roll-O-Hoist" Material Eleva-
tors; "Tugger" Gas Engine and Electric
Hoists.

Distributors

ALASKA
(Seattle).....The Carrington Co.
ARIZONA
Phoenix.....Copper State Tractor & Eqpt. Co.
Tucson.....State Tractor & Equipment Co.
CALIFORNIA
Los Angeles.....Garlinghouse, Fremont Co.

(Continued on next page)

**C. I. T.'s Pay-As-You-Depreciate Plan permits
payments out of depreciation**

Engineered Equipment, Inc. (Cont'd)

COLORADO	
Denver.....	Edward F. Taylor Co.
Grand Junction.....	Edward F. Taylor Co.
IDAHO	
Boise.....	Feenaughty Machinery Co.
MONTANA	
Billings.....	Industrial Equipment Co.
Great Falls.....	NorMont Equipment Co.
NEVADA	
Reno.....	Reno Equipment Sales Co.
NEW MEXICO	
Albuquerque.....	Lively Equipment Co.
OREGON	
Portland.....	Feenaughty Machinery Co.
UTAH	
Salt Lake City.....	Heiner Equipment Co.
WASHINGTON	
Seattle.....	Hatten Machinery Co.
WYOMING	
Casper.....	Moss Equipment & Supply Co.
(Denver).....	Edward F. Taylor Co.

ERIE STRAYER CO.

P.O. Box 1031
Erie, Pennsylvania

PRODUCTS: Buckets—Clamshell, Coal, Ash and Ore Handling, Dredging and Excavating, Dump, Foundry, Grapple, Rehandling, Rock and Slag, Concrete; Bins and Weighing Batchers; Portable Concrete Mixing Plants; Aggregate and Cement Elevators.

Distributors

ALASKA	
Anchorage.....	Northern Supply Co.
(Seattle).....	The Carrington Co.
ARIZONA	
Flagstaff.....	Hutchison Motors
Phoenix.....	Equipment Sales Co.
	Neil B. McGinnis Equipment Co.
	Lee Redman Equipment Co.
	Shriver Machinery Co.
	The O. S. Stapley Co.
	State Tractor & Equipment Co.
	Superior Equipment Co.
	Western Machinery Co.
CALIFORNIA	
Alhambra.....	Frank Cox Equipment Co.
Bakersfield.....	Brown-Beris Industrial Eqp't. Co.
	San Joaquin Tractor Co.
Berkeley.....	West Coast Engine & Equipment Co.
Chico.....	Sierra Tractor & Equipment Co.
El Monte.....	Warnock-Bancroft Equipment Co.
Fresno.....	Allied Equipment Co.
Los Angeles.....	Brown-Beris Industrial Eqp't. Co.
	Calavar Corporation
	Casey-Metcalf Machinery Co.
	Crook Company
	Essick Machinery Co.
	Garlinghouse, Fremont & Co.
	Harren Rickard & McCone
	Santa Fe Equipment Co., Inc.
	Schramm, Inc.
	Shepherd Tractor & Equipment Co.
	Smith-Booth-Usher Co.
Marysville.....	Sacramento Valley Tractor Co.
Modesto.....	Stanislaus Implement & Hardware Co.
Oakland.....	Bay Cities Equipment, Inc.
	Buran Equipment Co.
	Spears-Wells Machinery Co.
	Sun Equipment Co.
Redding.....	Sullivan & Crowe Equipment Co.
Richmond.....	Bay Equipment Co.
Salinas.....	Farmers Mercantile Co.
San Francisco.....	Edward R. Bacon Co.
	Coast Equipment Co.
	Contractors Machinery Co.
	Standard Machinery Co.
San Jose.....	Valley Equipment Co.
Stockton.....	Grace Moore Equipment Co.
COLORADO	
Denver.....	Constructors Equipment Co.
	Ray Corson Machinery Co.
	McCoy Company
	Western Machinery Co.
IDAHO	
Boise.....	Engineering Sales Service, Inc.
	Feenaughty Machinery Co.
	Starline Equipment Co.
	Western Equipment Co.
Idaho Falls.....	Southern Idaho Equipment Co.
MONTANA	
Billings.....	Saltz Machinery Co., Inc.
Butte.....	Hall-Perry Machinery Co.
Helena.....	Caird Engineering Works
	Montana Powder & Equipment Co.
Missoula.....	Mountain Tractor Co.
Kalispell.....	Treasure State Equipment Co.
Sidney.....	Tractor & Equipment Co.

(Continued in next column)

Erie Strayer Co. (Cont'd)

NEVADA	
Elko.....	A-D Machinery Co., Inc.
Reno.....	Nevada Equipment Service, Inc.
	Sierra Machinery Co., Inc.
NEW MEXICO	
Albuquerque.....	J. D. Coggins Co.
	Contractors Equipment & Supply Co.
	The Winter Weiss Co. of New Mexico
OREGON	
Cave Junction.....	Illinois Valley Hardware
Klamath Falls.....	Hauptert Tractor Co.
	J. W. Kerns, Oregon, Ltd.
	Moty & Van Dyke, Inc.
Medford.....	Hauptert Tractor Co.
Portland.....	Andrews & Andrews Equipment Co.
	Balzer Machinery Co.
	M. F. Brady Equipment Co.
	Clyde Equipment Co.
	Columbia Equipment Co.
	Cramer Machinery Co.
	Crooks Co.
	Feenaughty Machinery Co.
	Howard-Cooper Corp.
	Loggers & Contractors Machinery Co.
	Nelsen Equipment Co.
	Western Equipment Co.
UTAH	
Salt Lake City.....	Arnold Machinery Co.
	Heiner Equipment & Supply Co.
	Kimball Equipment Co.
	Lang Construction Eqp't. Co.
	Lund Machinery Co.
	Rasmussen Equipment Co.
	Rocky Mountain Machinery Co.
	Western Machinery Co.
	Wheeler Machinery Co.
WASHINGTON	
Seattle.....	Alr-Mac, Inc.
	Andrews Machinery of Washington
	Clyde Equipment Co.
	Feenaughty Machinery Co.
	Modern Machinery Co., Inc.
	Pacific Holst & Derrick Co.
	Tatum Equipment Co.
	Washington Machinery Co.
Spokane.....	Andrews Equipment Service
	Ferris Equipment Co.
	Feenaughty Machinery Co.
	General Machinery Co.
	Intermountain Equipment Co.
	Modern Machinery Co., Inc.
	Western Machinery Co.
WYOMING	
Casper.....	Moss Equipment & Supply Co.
	Studer Tractor & Equipment Co.
Cheyenne.....	Kereml Tractor & Equipment Co.
	Wortham Machinery Co.

UTAH

Salt Lake City.....	Arnold Machinery Co.
	Heiner Equipment & Supply Co.
	Kimball Equipment Co.
	Lang Construction Eqp't. Co.
	Lund Machinery Co.
	Rasmussen Equipment Co.
	Rocky Mountain Machinery Co.
	Western Machinery Co.
	Wheeler Machinery Co.

WASHINGTON

Seattle.....	Alr-Mac, Inc.
	Andrews Machinery of Washington
	Clyde Equipment Co.
	Feenaughty Machinery Co.
	Modern Machinery Co., Inc.
	Pacific Holst & Derrick Co.
	Tatum Equipment Co.
	Washington Machinery Co.
Spokane.....	Andrews Equipment Service
	Ferris Equipment Co.
	Feenaughty Machinery Co.
	General Machinery Co.
	Intermountain Equipment Co.
	Modern Machinery Co., Inc.
	Western Machinery Co.

WYOMING

Casper.....	Moss Equipment & Supply Co.
	Studer Tractor & Equipment Co.
Cheyenne.....	Kereml Tractor & Equipment Co.
	Wortham Machinery Co.

ESSICK MANUFACTURING CO.

1950 Santa Fe Avenue
Los Angeles 21, California

PRODUCTS: Bituminous Distributors; Portable and Stationary Compressors; Dredging Equipment; Material Handling Hoists; Paving Material Levellers; Plaster, Mortar, Concrete and Plant Mixers; Self-Priming and Diaphragm Power Pumps; Tandem Road Rollers; Vibrating Rollers; Paving Material Spreaders; Road Roller Trailers; Winches; Mortar Boxes; Weed and Pest Control Equipment.

Distributors

ALASKA	
(Seattle).....	Northern Commercial Co.
ARIZONA	
Phoenix.....	Equipment Sales Co.
CALIFORNIA	
Arvin.....	E. O. Mitchell, Inc.
Bakersfield.....	E. O. Mitchell, Inc.
El Centro.....	D & M Equipment Co.
Eureka.....	Eureka Boiler Works
Fresno.....	Contractors Equipment & Supply
Lancaster.....	Acme Rents
Oakland.....	Ricker Machinery Co.
Ontario.....	A. A. Equipment-Wolfe & Sons
Oxnard.....	Maulhardt Equipment Co.
Porterville.....	Porterville Farm Implement Co.
Redding.....	Sullivan & Crowe Equipment Co.
Riverside.....	W. K. Equipment Co.
San Bernardino.....	W. K. Equipment Co.
San Diego.....	Southern Equipment & Supply Co.
COLORADO	
Denver.....	King & East Machinery Corp.
IDAHO	
Boise.....	Safway Scaffolds of Boise
	Starline Equipment Co.
MONTANA	
Billings.....	Montana Powder & Equipment Co.
Helena.....	Montana Powder & Equipment Co.

(Continued in next column)

Essick Manufacturing Co. (Cont'd)

NEVADA	
Las Vegas.....	Inland Service & Supply Co.
Reno.....	General Equipment Co.
NEW MEXICO	
Albuquerque.....	R. L. Harrison Co., Inc.
NEGON	
Medford.....	Cal-Ore Machinery Co., Inc.
Portland.....	Balzer Machinery Co.
	Cramer Machinery Co.
UTAH	
Salt Lake City.....	Lund Machinery Co.
WASHINGTON	
Seattle.....	W. J. Burke & Co.
	Western Tractor & Equipment Co.
Spokane.....	Ferris Equipment Co.
	Western Machinery Co.
WYOMING	
Cheyenne.....	Wilson Equipment & Supply Co.

E. D. ETNYRE & CO.
200 Jefferson Street
Oregon, Illinois

PRODUCTS: Bituminous Curb Paver; Bituminous Distributors; Hauling Tanks and Maintenance Units; Asphalt Pumps; Street Flushers and Sprinklers.

Distributors

ALASKA	
(Seattle).....	The Carrington Co.
ARIZONA	
Tucson.....	F. Ronstadt Hardware Co.
CALIFORNIA	
Los Angeles.....	Crook Company
Oakland.....	Sun Equipment Co.
COLORADO	
Denver.....	Colorado Builders & Supply Co.
IDAHO	
Boise.....	Intermountain Equipment Co.
Pocatello.....	Intermountain Equipment Co.
MONTANA	
Billings.....	Industrial Equipment Co.
Great Falls.....	NorMount Equipment Co.
Kalispell.....	Treasure State Equipment Co.
NEVADA	
Las Vegas.....	Clark County Wholesale Merc. Co.
NEW MEXICO	
Albuquerque.....	R. L. Harrison Co.
OREGON	
Eugene.....	Howard-Cooper Corp.
Klamath Falls.....	Howard-Cooper Corp.
Portland.....	Howard-Cooper Corp.
Roseburg.....	Howard-Cooper Corp.
UTAH	
Salt Lake City.....	Kimball Equipment Co.
WASHINGTON	
Seattle.....	Howard-Cooper Corp.
Spokane.....	Intermountain Equipment Co.
WYOMING	
Casper.....	Colorado Builders' Supply Co.

EUCLID DIVISION

General Motors Corp.
1361 Chardon Road
Cleveland 17, Ohio

PRODUCTS: Crawler Tractors; Scrapers; Off-the-Road Rear Dumps; Bottom Dumps; Rock Haulers; Coal Haulers; Log Haulers; Front End Loaders.

Western Regional Manager

CALIFORNIA
Oakland—Rm. 660, El Dorado Bldg. . . . M. H. Johnson
360-22nd St.

District Sales Representatives

CALIFORNIA	
Lafayette—18 Diablo Circle.....	W. B. Dickerson
WASHINGTON	
Seattle—12844 Shorecrest Dr.....	S. T. Wyndham
Spokane—E. 633 21st Ave.....	J. S. Spilma
N. 1108 University Rd.....	G. A. Wynko

Distributors

ALASKA	
Anchorage.....	Evans Engine & Equipment Co., Inc.
ARIZONA	
Phoenix.....	Min-A-Con Equipment Co.

(Continued on next page)

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
Equitable Building, Portland

Euclid Division (Cont'd)

CALIFORNIA
La Puente..... Kyle Equipment Co.
Sacramento..... Northern California Euclid, Inc.
San Francisco..... Northern California Euclid, Inc.
COLORADO
Denver..... The Colorado Builders Supply Co.
ALABAMA
Birmingham..... Intermountain Equipment Co.
Pocatello..... Intermountain Equipment Co.
MONTANA
Billings..... Hall-Perry Machinery Co.
Butte..... Hall-Perry Machinery Co.
Great Falls..... Hall-Perry Machinery Co.
Missoula..... Hall-Perry Machinery Co.
WYOMING
Cheyenne..... Sierra Machinery Co., Inc.
Laramie..... Lively Equipment Co.
NEW MEXICO
Albuquerque..... Lively Equipment Co.
EGON
Eugene..... Interstate Tractor & Equipment Co.
Portland..... Interstate Tractor & Equipment Co.
OHIO
Salt Lake City..... Archer Tractor & Machinery Co.
WASHINGTON
Seattle..... Evans Engine & Equipment Co., Inc.
Spokane..... Intermountain Equipment Co.
IDAHOO
Casper..... The Colorado Builders Supply Co.

READY BIKSAW CO.

1104 Union Avenue
Kansas City 1, Missouri

PRODUCTS: Masonry and Concrete Saws; Diamond and Break-Resistant Abrasive Blades for masonry and concrete sawing.

Distributors

ALABAMA
Phenix..... Baker-Thomas Co.
Tucson..... Waco Scaffolding Co.
CALIFORNIA
Fresno..... Industrial Tool & Supply Co.
Los Angeles..... Edward R. Bacon Co.
Oakland..... San Joaquin Materials Co.
Sacramento..... Calmo Engineering Co.
San Diego..... Waco-May Scaffolding Co.
San Francisco..... Edw. R. Bacon Co.
Santa Barbara..... W. J. Burke & Co.
Stockton..... Edward R. Bacon Co.
W. J. Burke & Co.
Southern Equipment & Supply Co.
Santa Monica..... Edward R. Bacon Co.
Stockton..... E. J. Bartells Co.
W. J. Burke & Co.
Higgins Building Materials
Waco Scaffolding Co.
LORADO
Denver..... Denver Service & Material Co.
Grand Junction..... Western Machinery Co.
MONTANA
Billings..... Hall-Perry Machinery Co.
Butte..... Hall-Perry Machinery Co.
Great Falls..... Hall-Perry Machinery Co.
Missoula..... Hall-Perry Machinery Co.
NEW MEXICO
Albuquerque..... Frank's Supply Co.
Carlsbad..... Carlsbad Black & Supply Co.
Clovis..... Mine & Mill Supply Co.
Farmington..... Mauldin Lumber Co.
Hobbs..... Frank's Supply Co.
Roswell..... Leaco Company
Builders Block & Stone Co.
EGON
Portland..... E. J. Bartells Co.
Scaffold Equipment Co.
TAH
Salt Lake City..... Clyde G. Larsen Co.
Western Machinery Co.
WASHINGTON
Seattle..... E. J. Bartells Co.
Star Machinery Co.
Spokane..... E. J. Bartells Co.
Star Machinery Co.

A.B. MANUFACTURING CO.

1249-67th Street
Oakland 8, California

PRODUCTS: Heavy Duty Automotive Transportation Equipment, including complete specialized trucks for the construction industry; Six Wheel Truck Conversions; Dual Drive Conversions; Front Wheel Drive Conversions; Semi-Trailers; Full Trailers; Log Trailers; Machinery and Shovel Trailers; Four by Four and Six by Six Trucks.

(Continued in next column)

F.A.B. Manufacturing Co. (Cont'd)

Factory Personnel

CALIFORNIA
Oakland—1249-67th St. H. D. Ainsworth, President
John D. Ainsworth, Vice President—Sales
Laine J. Ainsworth, Chief Engineer

Distributors

ARIZONA
Phoenix..... Welch Manufacturing Co.
CALIFORNIA
Oakland..... Fabco Equipment Co.
COLORADO
Denver..... The Woebler Auto Body & Mfg. Co.
IDAHO
Boise..... Boise-White Truck & Eqpt. Co.
Pocatello..... Williamsen Body & Equipment Co.
MONTANA
Great Falls..... Johnson Distributing Co.
NEW MEXICO
Albuquerque..... Winter-Weiss Co. of New Mexico
OREGON
Portland..... Northwest Truckstell Sales, Inc.
UTAH
Ogden..... Williamsen Body & Equipment Co.
Salt Lake City..... Williamsen's, Inc.
WASHINGTON
Seattle..... Truck Welding & Equipment Co.
Spokane..... American Machine Co.

THE FAIRFIELD ENGINEERING CO.

324 Barnhart Street
Marion, Ohio

PRODUCTS: Portable Belt Conveyors; Brick Conveyors; Builder Conveyors; Concrete Conveyors; Stationary Conveyors; Bucket Elevators; Under-car Unloaders; Material Spreaders.

Distributors

ALASKA
(Seattle)..... Northern Commercial Co.
ARIZONA
Phoenix..... Superior Equipment Co.
CALIFORNIA
San Francisco..... Matthis Company
South Gate..... Cost Reduction Equipment Co.
COLORADO
Denver..... W. D. Woodruff
WASHINGTON
Seattle..... Northern Commercial Co.

FELKER MANUFACTURING CO.

1128 Border Avenue
Torrance, California

PRODUCTS: Core-Lock Surface Set Drills for reinforced masonry and concrete drilling; Di-Lock Blades for concrete and masonry cutting; Concrete and Masonry Saws.

Factory Personnel

CALIFORNIA
Torrance 1128 Border Ave..... F. K. Ryan, Sales Mgr.
J. M. Goebel, Assistant Sales Mgr.

Distributors

Inquiries should be forwarded to the factory: 1128 Border Avenue, Torrance, California.

FLAHERTY MANUFACTURING, INC.

P.O. Box 1042
Pocatello, Idaho

PRODUCTS: Portable Roll Crusher; Win-Ro Spreader; Spread-Master Power Spreader; Highway Wideners; Self-Propelled Power Broom; Self-Propelled Rollers.

Factory Personnel

IDAHO
Pocatello—Municipal Airport..... Gene Flaherty, Pres.
Joe Aspitarte, Vice Pres.
Harold Lund, Chief Engr.

Distributors

ARIZONA
Phoenix..... Superior Equipment Co.
CALIFORNIA
Oakland..... Spears-Wells Machinery Co.
COLORADO
Denver..... Tudor Equipment Co.

(Continued in next column)

Flaherty Manufacturing, Inc. (Cont'd)

MONTANA
Billings..... Industrial Equipment Co.
Missoula..... Mountain Tractor Co.
NEW MEXICO
Albuquerque..... Lively Equipment Co.
UTAH
Salt Lake City..... Parker Equipment Co.
WYOMING
Casper..... Moss Equipment Co.

FLASH-R-LITE CORP.

1945 Blake Avenue
Los Angeles 39, California

PRODUCTS: Warning Lites and Barricades with Scotch Lite Signs for use by contractors on construction jobs, and other similar products.

Factory Branch Managers

CALIFORNIA
San Bernardino—4228 N. "F" St. Vince Charbonneau
San Diego—1815 Hancock..... Ned C. Crawford

Distributors

CALIFORNIA
Fresno..... Jack George
Oakland..... K. L. Thurston & Wm. L. Selig, Jr.
Sacramento..... Earl Axtell
Santa Clara..... R. Burton Rose

FLECO CORPORATION

1375 West Church Street
Jacksonville 3, Florida

PRODUCTS: Detachable Stumper; Pull Stumper; Root Rake; Rock Rake; Brush Rake; Treedozer; Tree Cutter; Undercutter; Root Cutters; Cab Guards; Rolling Choppers; Sub-Tillage Tools; Heavy Duty Tool Bars; Root Plow; Multi-Application Rakes.

Distributors

All Fleco-Caterpillar Tractor Co. dealers

FLEXIBLE ROAD JOINT MACHINE CO.

1750 Thomas Road
Warren, Ohio

PRODUCTS: Concrete Finishing Machines; Bridge Finishing Machines; Combination Finisher; Float Machines; Spray Machines; Joint Machines; Miscellaneous Bridge and Finishing Tools.

District Representative

CALIFORNIA
Redondo Beach..... Ken Simpson

Distributors

COLORADO
Denver..... Constructors Equipment Co., Inc.
IDAHO
Boise..... Starline Equipment Co.
NEW MEXICO
Albuquerque..... Contractors Equipment & Supply Co.
OREGON
Portland..... Columbia Equipment Co.
UTAH
Salt Lake City..... Atlas Equipment Co.
WASHINGTON
Seattle..... Columbia Equipment Co.
Spokane..... Columbia Equipment Co.

FLEXIBLE STEEL LACING CO.

4607 Lexington Street
Chicago 44, Illinois

PRODUCTS: Alligator V-Belt Fasteners; Alligator Belt Lacing; Alligator Belt Cutters; Flexco Belt Fasteners; Turtle Belt Fasteners; Flex V-Belt Fasteners; Belt Clamps.

Sales Representatives

CALIFORNIA
San Mateo—10 Jody Court..... James E. McComb
WASHINGTON
Seattle—2403 W. 197th St..... John A. Marshall

Distributors

Our products are sold through a number of industrial supply, mill supply, transmission, belting and wholesale hardware firms located in the 11 Western states and Alaska.

**C. I. T. provides experienced financing for
Distributors and Contractors**

FORD MOTOR CO.
Industrial Engine Dept.
P.O. Box 598
Dearborn, Michigan

PRODUCTS: Engines, Diesel and Gas.

Sales Offices

CALIFORNIA
 Richmond—1500 S. 26th St.
 Van Nuys—13907 Chandler Blvd.

Distributors

CALIFORNIA
 Los Angeles.....Tractor-Equipment Distributors
 Mountain View.....Mark Tuban Ford Industrial
 Products Co.
COLORADO
 Denver.....L. D. Bax
OREGON
 Portland.....Columbia Tractor & Implement Co.
UTAH
 Salt Lake City.....Petty Motor Co.
WASHINGTON
 Seattle.....Smith-Gandy, Inc.

FORD MOTOR COMPANY
TRACTOR & IMPLEMENT DIVISION
1007 Financial Center Building
Oakland 12, California

PRODUCTS: Tractors and equipment.

Regional Personnel

CALIFORNIA
 Oakland.....1007 Financial Center Bldg.
 Regional Sales Manager.....T. W. Heming
 Sales Representative.....F. L. Martin
 Sales Representative.....N. M. Sullivan
 Parts Representative.....J. W. Bressler
 Service Representative.....G. W. Riley
 Service Representative.....H. D. Wark

Distributors

CALIFORNIA
 Los Angeles.....Tractor-Equipment Distributors, Inc.
 Richmond.....Pacific Tractor & Implement Co.
COLORADO
 Denver.....McCarthy-Sherman Distributing Corp.
MONTANA
 Billings.....Columbia Tractor & Implement Co.
OREGON
 Portland.....Columbia Tractor & Implement Co.
UTAH
 Salt Lake City.....Intermountain Ford Tractor Sales Co.

FORD MOTOR COMPANY
TRACTOR & IMPLEMENT DIVISION
2500 East Maple Road
Birmingham, Michigan

PRODUCTS: Ford Industrial Tractors; Fordson Major Diesel Tractors; Front End Loaders; Front Mounted Dozer and Snow Blades; Rear Mounted Blades; Rear Mounted Scoops; Tillage Equipment; Post Hole Diggers; 10'-12'-14' Backhoes for Ford and FMD Tractors.

Regional Manager

CALIFORNIA
 Oakland—Financial Center Bldg.....T. W. Heming

Distributors

CALIFORNIA
 Los Angeles.....Tractor-Equipment Distributors, Inc.
 Richmond.....Pacific Tractor & Implement Co.
COLORADO
 Denver.....McCarthy-Sherman Distributors
MONTANA
 Billings.....Wymont Tractor & Equipment Co.
OREGON
 Portland.....Columbia Tractor & Implement Co.
UTAH
 Salt Lake City.....Intermountain Ford Tractor Sales Co.

FORD TRUCK DIVISION
Ford Motor Co.
P.O. Box 658
Dearborn, Michigan

PRODUCTS: Light, Medium and Heavy Duty Trucks.
 (Continued in next column)

Ford Truck Division (Cont'd)
Factory Branch Managers

CALIFORNIA
 Los Angeles—4940 E. Sheila St.....W. H. Klein
 San Jose—P.O. Box 1181.....J. A. King
COLORADO
 Denver—Box 5588.....J. T. Cavnar
UTAH
 Salt Lake City—414 W. 3rd South St.....T. Newell
WASHINGTON
 Seattle—P.O. Box 3565.....C. J. Powell

FORNEY INDUSTRIES

Box 563
Fort Collins, Colorado

PRODUCTS: Arc Welders; Welding Supplies; Generators.

L. B. FOSTER CO.

P.O. Box 1647
Pittsburgh 30, Pennsylvania

PRODUCTS: Steel-Sheet Piling; H-S Lightweight Piling; H-Section Bearing Pile; Pipe for Piling; Steel Pipe and Fabrication; Welding Fittings and Flanges; New Relaying Rails; Track Accessories and Tools; Aluminum Bridge Railing; Highway Guard Rail.

Regional Office

CALIFORNIA
 Los Angeles—3460 Wilshire Blvd.

THE FOUR WHEEL DRIVE AUTO CO.
East 12th Street
Clintonville, Wisconsin

PRODUCTS: Four and Six-Wheel Drive Trucks; Fire Trucks; Earth Drills; Road Maintenance Equipment; Snow Plows; Winches; Trailers; Wheel Tractors.

District Sales Managers

CALIFORNIA
 Millbrae—837 Hawthorne Way.....Ronald C. Gehrke
 Pomona—1864 Westwood Place.....Jack Kelly
WASHINGTON
 Bellevue—405-165th Ave., SE.....W. R. Lewis

Distributors

ALASKA
 Anchorage.....Airport Machinery Co., Inc.
ARIZONA
 Flagstaff.....Whiting & Whiting
 Phoenix.....Arizona Cedar Rapids Co.
CALIFORNIA
 Los Angeles.....Calavar Corp.
 San Francisco.....The FWD Pacific Co.
COLORADO
 Denver.....Macdonald Equipment Co.
 Englewood.....Denver Truck Exchange, Inc.
 Grand Junction.....Colo-Plat Equipment Co.
IDAHO
 Boise.....Glen Dick Eqpt. Co.
MONTANA
 Billings.....Big Horn Supply, Inc.
 Helena.....Steffeck Equipment Co.
OREGON
 Portland.....Feenaughty Machinery Co.
 Silver Eagle Co.
UTAH
 Salt Lake City.....Kimball Equipment Co.
 Transport Equipment Center
WASHINGTON
 Seattle.....Feenaughty Machinery Co.
 Spokane.....Feenaughty Machinery Co.
WYOMING
 Casper.....Studer Tractor & Equipment Co.
 Torrington.....Truck Equipment & Supply

FRUEHAUF TRAILER CO.

1444 South Alameda
Los Angeles, California

PRODUCTS: Commercial Truck-Trailers; Truck Bodies and Six-Wheel Attachments.
 (Continued in next column)

Fruehauf Trailer Co. (Cont'd)
Factory Branches

ARIZONA
 Phoenix—Manager.....M. A. Rampy
CALIFORNIA
 Fresno—Manager.....John Calvert
 Los Angeles—Manager.....H. L. Chaffin
 Oakland—Manager.....L. F. Plummer
 Sacramento—Manager.....C. F. Williams
OREGON
 Portland—Manager.....W. J. Jarvis
UTAH
 Salt Lake City—Manager.....W. P. Quinn
WASHINGTON
 Seattle—Manager.....A. V. Tice

FULLER MANUFACTURING CO.
Kalamazoo, Michigan

PRODUCTS: Transmissions; Steering Axles and Trailer Axles.

Western District Branch

(Warehousing for wholesale only)

CALIFORNIA
 Oakland—641 East 10th Street.....E. L. King, Mgr.
 Sales to branches and dealers of truck and trailer builders who use Fuller transmissions and Shuler axles as original equipment.

FULLERFORM MANUFACTURING CO., INC.

24 E. Pioneer Street
Phoenix, Arizona

PRODUCTS: Concrete Ditch Lining Equipment; Irrigation Control Valves; Irrigation Ditch Checks; Irrigation Ditch Stops; Permanent Irrigation Swinging Gates.

Distributors

ARIZONA
 Buckeye.....Dan R. Fuller
 Casa Grande.....Eddie Givens Ditching Co.
 Coolidge.....C. S. & R. Ditch Lining Co.
 Gilbert.....Wm. R. Hunter
 Litchfield Park.....Dan R. Fuller
 Mesa.....Barney & Babcock
 Phoenix.....Alfred & Co.
 Safford.....Gila Valley Concrete Co.
 Tolleson.....R. Fuller Co.
 Willcox.....Fullerform-Willcox
 Yuma.....James F. Bianconi
CALIFORNIA
 Avenal.....George L. Thompson
 Bakersfield.....Fullerform - Bakersfield
 Chico.....Butte Creek Rock Co.
 Coachella.....Coachella Valley County Water District
 Daggett.....Cool Water Ranch
 El Centro.....Chas. R. Bratton
 Los Banos.....Robal Ditch Construction Co.
 Woodland.....McWin Concrete Ditch Liners
COLORADO
 Denver.....Accessory Supply Co.
 Fort Morgan.....Jacob Dorn & Son
 Greeley.....Torrez Construction Co.
 Pueblo.....Chas. E. Willson & Co.
 Rocky Ford.....Southern Contractors, Inc.
 Valley Concrete Co.
IDAHO
 Twin Falls.....P. & E. Concrete Co.
NEVADA
 Tuscarora.....Petan Co.-Y. P. Ranch
 Yerington.....Nate Wallace
NEW MEXICO
 Carlsbad.....Constructors, Inc.
 Deming.....John L. Gray
 R. S. Palmer, Inc.
 Hagerman.....Valley Ditch Liners
 Lovington.....G. W. Wallace
 Tucumcari.....McDaniel Bros.
OREGON
 Klamath Falls.....Panhandle Trucking, Inc.
 Ontario.....Ontario Produce Co.
UTAH
 Cedar City.....Kenneth C. Clark
 Pary Sand & Gravel
 St. George.....George J. Jennings
 Tremonton.....Germer, Abbott & Waldron

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
Equitable Building, Portland

WESTERN CONSTRUCTION EQUIPMENT DIRECTORY

MANUFACTURERS' SECTION

GALION ALLSTEEL BODY CO.

605 South Market Street
Galion, Ohio

PRODUCTS: Hydraulic Hoists and Dump Bodies; Dump Trailer Packages; Batching Bodies; Truck Mixers.

Western Regional Manager

NEBRASKA
Omaha—55 Neptune Pl., Carter Lake, G. J. Bockmann

Distributors

ARIZONA
Phoenix.....Welch Manufacturing Co.
ALABAMA
Los Angeles.....Jumbo Equipment Co.
COLORADO
Denver.....Jacobs-Kerr & Co.
WASHINGTON
Seattle.....Truck Welding & Equipment Co.
Spokane.....Evergreen Truck Equipment Co.

THE GALION IRON WORKS & MFG. CO.

South Street
Galion, Ohio

PRODUCTS: Graders, motor; Rollers, pneumatic, steel and vibrating.

District Representatives

ALABAMA
Altadena—3273 Mt. Curve.....Dan Penkoff
OREGON
Portland—3902 NE 36th Ave.....Robert Shears

Distributors

ALASKA
(Seattle).....The Carrington Co.
ARIZONA
Phoenix.....Copper State Tractor Co.
Tucson.....F. Ronstadt Hardware Co.
ALABAMA
Bakersfield.....Brown-Bevis Industrial Ept. Co.
Eureka.....Howard-Cooper Corp. of California
Five Points.....Allied Equipment Co.
Fresno.....Allied Equipment Co.
Los Angeles.....Brown-Bevis Industrial Ept. Co.
Madera.....Allied Equipment Co.
Oakland.....Bay Cities Equipment Co.
Readley.....Allied Equipment Co.
(Reno).....Sanford Tractor & Equipment Co.
Riverside.....Brown-Bevis Industrial Ept. Co.
Sacramento.....Sacramento Valley Tractor Co.
Salinas.....Farmers Mercantile Co.
Santa Rosa.....Stevenson Equipment Co., Inc.
Stockton.....Delta Tractor Co.
Stratford.....Orion's Equipment Co., Inc.
Watsonville.....Farmers Mercantile Co.

COLORADO
Denver.....M. W. Moore Equipment Co.
Grand Junction.....H. W. Moore Equipment Co.

MONTANA
Billings.....Industrial Equipment Co.
Great Falls.....Power Equipment Co.
Kalispell.....Treasure State Equipment Co.
Missoula.....Treasure State Equipment Co.

NEVADA
Las Vegas.....Clark County Wholesale Merc. Co.
Reno.....Sanford Tractor & Equipment Co.
(Salt Lake).....Lang Construction Equipment Co.

NEW MEXICO
Albuquerque.....J. D. Coggins Co.
Farmington.....J. D. Coggins Co.
(El Paso).....Border Machinery Co.

OREGON
Albany.....Howard-Cooper Corp.
Central Point.....Howard-Cooper Corp.
Coquille.....Howard-Cooper Corp.
Eugene.....Howard-Cooper Corp.
Pendleton.....Pendleton Grain Growers, Inc.
Portland.....Howard-Cooper Corp.
Roseburg.....Howard-Cooper Corp.
(Seattle).....Howard-Cooper Corp.

UTAH
Salt Lake City.....Lang Construction Equipment Co.

WASHINGTON
Seattle.....Howard-Cooper Corp.

WYOMING
Casper.....Western Equipment Co.
(Billings).....Industrial Equipment Co.
(Salt Lake).....Lang Construction Equipment Co.

GAR-BRO MANUFACTURING CO.

2415 East Washington Boulevard
Los Angeles 21, California

PRODUCTS: Concrete Placing Equipment; Concrete Buckets; Hoppers; Batches; Concrete Carts; Power Carts; Drop Chutes; Collection Hoppers.

Distributors

ARIZONA
Phoenix.....Equipment Sales Co.
Lee Redman Equipment Co.
Western Machinery Co.
CALIFORNIA
Los Angeles.....Garlinghouse-Fremont Co.
San Francisco.....Edward R. Bacon Co.
COLORADO
Denver.....Western Machinery Co.
IDAHO
Boise.....Intermountain Equipment Co.
MONTANA
Butte.....Hall-Perry Machinery Co.
NEW MEXICO
Albuquerque.....Contractors Equipment & Supply Co.
OREGON
Portland.....Loggers & Contractors Mch. Co.
UTAH
Salt Lake City.....Arnold Machinery Co.
Western Machinery Co.
WASHINGTON
Seattle.....A. H. Cox & Co.
Spokane.....Construction Equipment Co.
WYOMING
Casper.....Studer Tractor & Equipment Co.
Cheyenne.....Keremi Tractor & Equipment Co.

GARDNER-DENVER CO.

Front Street
Quincy, Illinois

PRODUCTS: Stationary and Portable Air Compressors; Rock Drills; Wagon Drills; Concrete Breakers; Backfill Tampers; Clay Diggers; Power and Steam Reciprocating Pumps; Centrifugal Pumps; Air Hoists.

Factory Branches

CALIFORNIA
Los Angeles—Manager.....W. A. Nilsson
San Francisco—Manager.....C. H. Dirks
COLORADO
Denver—Manager.....H. F. Gerhauser
IDAHO
Wallace—Manager.....E. E. Vaughan
MONTANA
Butte—Manager.....R. S. Gibson
UTAH
Salt Lake City—Manager.....D. G. Jarvis
WASHINGTON
Seattle—Manager.....N. M. Nevin

Distributors

ARIZONA
Phoenix.....D. W. Jaquays & Co.
CALIFORNIA
Eureka.....Rogers Machinery Co.
Los Angeles.....Bailey Equipment Co.
Compressor Service Co.
Pneumatic Machinery Co.
San Francisco.....Electric Steel Foundry Co.
George M. Philpott Co.
Reno Equipment Sales Co.
COLORADO
Denver.....Air Rentals, Inc.
Faris-Moritz Equipment Co.
R. L. Harrison Co.
Junction Bit & Tool Co.
Tractor Parts, Inc.
IDAHO
Idaho Falls.....Lang Construction Equipment Co.
Pocatello.....Flaherty Manufacturing Co.
MONTANA
Great Falls.....Central Machinery Co.
Havre.....Central Machinery Co.
Kalispell.....Westmont Tractor Co.
Lewiston.....Central Machinery Co.
Missoula.....Westmont Tractor Co.
Sidney.....Westmont Tractor Co.
NEVADA
Reno.....Reno Equipment Sales Co.
OREGON
Portland.....George M. Philpott Co.
Rogers Machinery Co.
R. M. Wade & Co.
UTAH
Monticello.....Western Mine Supply
Salt Lake City.....The Galigher Company
Lang Construction Ept. Co.
Moab.....Plateau Hardware, Inc.
WASHINGTON
Seattle.....Air Equipment Rentals, Inc.
Spokane.....Modern Machinery Co.

GARRISON MANUFACTURING CO.

4609 East Sheila Street
Los Angeles 23, California

PRODUCTS: Hydraulic Steering Boosters and special hydraulic equipment for trucks, truck cranes, graders and tractors.

Distributors

ARIZONA
Phoenix.....Truck Equipment Co.
Los Angeles.....Calavar Corporation
White Motor Co.
IDAHO
Boise.....Boise White Truck & Ept. Co.
NEVADA
Reno.....Sierra Truck & Trailer Co.
OREGON
Albany.....Oregon Truck Sales
Portland.....White Motor Co.
UTAH
Salt Lake City.....Linder & Wood White Motor Sales
NEW MEXICO
Albuquerque.....Inland White Truck Co.
WASHINGTON
Spokane.....Jones White Truck Co.
WYOMING
Casper.....Century White Truck Co., Inc.

GAR WOOD INDUSTRIES, INC.

South Fourth & Wright Streets
Richmond, California

PRODUCTS: Gar Wood Hoists and Dump Bodies; Winches; Cranes; Derricks; Bottom Dump Hopper Bodies; Elevating End Gates; Hi-Lift Hoists; Load-Packer and Speed-Packer Refuse Collection Bodies; National Lift Jumbo Hoists; Pick-Up Dump-O-Matic Hoists; Lift-O-Matic Tailgate Lifts.

Factory Branch Managers

CALIFORNIA
Richmond—Bay Area Sales.....Earl Berthold

Sales Offices

CALIFORNIA
Richmond—Division Manager.....M. L. Shepard
Richmond—District Manager.....Geo. F. Martin
IDAHO
Boise—District Manager.....W. E. Ranck

Distributors

ARIZONA
Phoenix.....Allison Steel Mfg. Co.
CALIFORNIA
Bakersfield.....California Truck & Ind. Ept. Co.
Fresno.....Ruckstell California Sales Co.
Los Angeles.....Gar Wood-Los Angeles Truck Ept., Inc.
Pomona.....Win Ward Co.
San Diego.....Utility Trailer Sales Co.
IDAHO
Boise.....The Sawtooth Co.
MONTANA
Great Falls.....Erwin H. Johnson, Inc.
NEVADA
Reno.....Sierra Machinery Co.
OREGON
Portland.....Fruehauf Trailer Co.
UTAH
Salt Lake City.....Trailmobile, Inc.
WASHINGTON
Seattle.....Fruehauf Trailer Co.
Spokane.....Fruehauf Trailer Co.
WYOMING
Casper.....Studer Tractor & Equipment Co.

GAR WOOD INDUSTRIES, INC.

Wayne, Michigan

PRODUCTS: Gar Wood Buckeye Ditchers; Hi-Way Winners; Finegraders and Spreaders.

Regional District Manager

CALIFORNIA
Richmond—S. 4th & Wright Sts.....A. M. Guthrie

Distributors

ARIZONA
Phoenix.....Equipment Sales Co.
CALIFORNIA
El Monte.....Warnock-Bancroft Equipment Co.
Oakland.....Buran Equipment Co.
Redding.....Shasta Truck & Equipment Sales
N. Sacramento.....Industrial Tractor Sales

(Continued on next page)

**C. I. T.'s Pay-As-You-Depreciate Plan provides
long term financing for Contractors**

Gar Wood Industries, Inc. (Cont'd)

COLORADO
Denver.....Western Machinery Co.
IDAHO
Idaho Falls.....Southern Idaho Equipment Co.
MONTANA
Billings.....Seltz Machinery Co., Inc.
Great Falls.....Seltz Machinery Co., Inc.
NEVADA
Elko.....A-D Machinery Co.
Reno.....Reno Equipment Sales Co.
NEW MEXICO
Roswell.....Smith Machinery Co., Inc.
OREGON
Portland.....Cramer Machinery Co.
UTAH
Salt Lake City.....Western Machinery Co.
WASHINGTON
Seattle.....Alr-Mac, Inc. of Washington
WYOMING
Casper.....Studer Tractor & Equipment Co.
PRODUCTS: Gar Wood Shovels; Cranes and Truck Cranes.

Regional District Manager

CALIFORNIA
Richmond—S. 4th & Wright Sts.....A. M. Guthrie

Distributors

ARIZONA
Phoenix.....Equipment Sales Co.
CALIFORNIA
El Monte.....Warnock-Bancroft Equipment Co.
Oakland.....Burau Equipment Co.
N. Sacramento.....Industrial Tractor Sales
COLORADO
Denver.....Western Machinery Co.
MONTANA
Billings.....Seltz Machinery Co., Inc.
Great Falls.....Seltz Machinery Co., Inc.
NEW MEXICO
Roswell.....Smith Machinery Co., Inc.
OREGON
Portland.....Cramer Machinery Co.
WYOMING
Casper.....Studer Tractor & Equipment Co.

GATES & SONS, INC.

80 South Galapago Street
Denver 23, Colorado

PRODUCTS: Concrete Form Ties—rod type; 2 x 4 Ties; PlastiCone Ties; Strap Ties and Forming Accessories.

Factory Branch

WASHINGTON
Spokane—Manager.....Garrett Matthews
E. 3003 Courtland Ave.

THE GENERAL TIRE & RUBBER CO.

1708 Englewood Avenue
Akron 9, Ohio

PRODUCTS: Tires.

Factory Branch Managers

CALIFORNIA
Los Angeles—5551 Jilison St.....J. S. Hanse
San Francisco—900 Marin St.....Morgan J. Morgan
COLORADO
Denver—5050 N. Colorado Blvd.....Keith A. Steele
OREGON
Portland—2840 NW 35th St....Robert Saint-Evens

Distributors

SEE YOUR LOCAL TIRE DEALER

BEN C. GERWICK, INC.

417 Market Street
San Francisco 5, California

PRODUCTS: Precast Prestressed Concrete Products for piling, bridges, buildings, and marine projects.

GILSON BROTHERS CO.
Fredonia, Wisconsin

PRODUCTS: Concrete Mixers; Mortar and Plaster Mixers; Limestone Pulverizers.

Distributors

ARIZONA
Tucson.....Machinery & Supply Co.
CALIFORNIA
Sacramento.....Central Equipment Co.
San Diego.....Kenton Equipment Co.
San Francisco.....The Rix Co., Inc.
Santa Ana.....Blystone Equipment Co.
COLORADO
Denver.....Mine & Smelter Supply Co.
Pueblo.....Bernstein Bros. Mach. Co.
MONTANA
Billings.....Rental Equipment Co.
NEVADA
Las Vegas.....Blystone Equipment Co. of Nevada
NEW MEXICO
Albuquerque.....N. C. Ribble Co.
OREGON
Medford.....Cal-Ore Machinery Co.

THE GLEDHILL ROAD MACHINERY CO.
South State Road, Route 30-S
Galion, Ohio

PRODUCTS: Sno-Plows; Spreaders; Graders; Grader Blades; Pavers; Road Maintainers; Earth Movers; Road-Side Sprayers; Portable Scales; Salt and Sand Spreaders; Sucker-up Leaf and Debris Vacuum Loaders; Beam Shapers; 1½ to 3 ton Black Top and Patch Roller; Roller and Land Levelers.

Distributors

ARIZONA
Phoenix.....Superior Equipment Co.
CALIFORNIA
San Francisco.....Western Traction Co.
COLORADO
Denver.....Woebor Auto Body & Mfg. Co.
IDAHO
Boise.....Southern Idaho Equipment Co., Inc.
MONTANA
Billings.....Western Construction Equipment
Great Falls.....Western Construction Equipment
Missoula.....Westmount Tractor & Equipment Co.
NEVADA
Reno.....Sierra Machinery Co.
NEW MEXICO
Albuquerque.....Harry Cornelius Co.
OREGON
Portland.....Edward L. Kropp Co.
UTAH
Salt Lake City.....Rasmussen Equipment Co.
WASHINGTON
Seattle.....Alr-Mac, Inc.
Northern Commercial Co.
WYOMING
Cheyenne.....Keremi Tractor & Eqt. Co.

GMC TRUCK & COACH DIVISION
General Motors Corporation
660 South Boulevard East
Pontiac 11, Michigan

PRODUCTS: GMC Trucks, Gasoline and Diesel.

Factory Branch Managers

CALIFORNIA
Los Angeles—1850 E. Washington Bldg.....S. E. Phillips
COLORADO
Denver—620 W. 12th Ave.....L. N. Olson
UTAH
Salt Lake City—974 S. Main St.....G. C. McCluskey
WASHINGTON
Seattle—600 Fifth Ave. So.....R. B. Bower
DEALERS IN ALL PRINCIPAL CITIES

GOOD ROADS MACHINERY CORP.
Bridge Street
Minerva, Ohio

PRODUCTS: Snow Plows; Aggregate Spreaders; Black Top Pavers (towed type); Jet Spreaders; 4U Spreaders (traction type); TG400 Tailgate Spreaders; Leaf Loaders; Leaf Collectors; Scavengers (all purpose refuse collector and catch basin cleaner); Mulch-Vac Sweeper line.

(Continued in next column)

Good Roads Machinery Corp. (Cont'd)

Distributors

ALASKA
Anchorage.....Craig Taylor Equipment & Supply Co.
ARIZONA
Phoenix.....Western Machinery Co.
CALIFORNIA
Los Angeles.....Smith-Booth-Usher Co.
San Francisco.....A. L. Young Machinery Co.
COLORADO
Denver.....Power Equipment Co.
IDAHO
Boise.....Intermountain Equipment Co.
MONTANA
Billings.....Seltz Machinery Co.
Helena.....Montana Powder & Equipment Co.
NEW MEXICO
Albuquerque.....Contractors Equipment & Supply Co.
OREGON
Portland.....Howard-Cooper Corp.
UTAH
Salt Lake City.....Lund Machinery Co.
WASHINGTON
Seattle.....Howard Cooper Corp.
WYOMING
Cheyenne.....Keremi Tractor & Equipment Co.

GOODALL RUBBER CO.

Whitehead Road
Trenton 4, New Jersey

PRODUCTS: Belting; Conveyor, Elevator, Transmission, "V" Hose; Air, Water, Steam, Suction, Discharge, Concrete Placing, Grout; Clothing; Rubber and Oiled; Footwear; Boots, Shoe Pads; Plastic Pipe; Fire Hose.

Factory Branches

CALIFORNIA
Los Angeles—2939 E. 11th.....Thomas Meyer
San Francisco—221 E. Grand.....Robt. Steinke
COLORADO
Denver—1033 Santa Fe Dr.....Burford Peck
OREGON
Portland—1111 NW 16th.....Leon Moss
UTAH
Salt Lake City—631 S. 2nd West.....P. E. Moss
WASHINGTON
Seattle—2751 4th Ave. S.....Herbert Cleaver

Western District Manager

UTAH
Salt Lake City—631 S. 2nd West.....P. E. Moss

THE B. F. GOODRICH CO.
5400 E. Olympic Blvd.
Los Angeles 22, California

PRODUCTS: Tires and Tubes.

Zone Managers

CALIFORNIA
Los Angeles—3525 S. Garfield Ave.....W. S. Sellgar
San Francisco—1950 Army St.....O. K. Lynn
COLORADO
Denver—2500 W. 8th Ave.....W. W. Morris
OREGON
Portland—3055 N. W. Yeon.....C. E. Newman
UTAH
Salt Lake City—651 W. 6th St.....J. W. Martin

Factory Personnel

CALIFORNIA
Los Angeles.....5400 E. Olympic Blvd.
L. T. Greiner, Regional Manager
E. W. Swift, Truck Tire Sales

Distributors

B. F. Goodrich Co. Stores and Distributors in all Principal Cities. Refer to classified section of Telephone Directory under "TIRES."

B. F. GOODRICH INDUSTRIAL PRODUCTS CO.
Marietta, Ohio

PRODUCTS: Koroseal Vinyl Wall Covering.

Sales Representative

CALIFORNIA
Los Angeles—3525 S. Garfield Ave.....W. B. Keys
(Continued on next page)

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
Equitable Building, Portland

F. Goodrich Industrial Products Co.
(Cont'd)**Distributors**

ARIZONA
Phoenix.....Golden West Supplies

CALIFORNIA
Los Angeles.....A. B. Boyd Co.
San Francisco.....A. B. Boyd Co.

COLORADO
Denver.....Clark Foam Rubber & Fabrics

OREGON
Portland.....A. B. Boyd Co.

UTAH
Salt Lake City.....Silver State Suppliers

WASHINGTON
Seattle.....A. B. Boyd Co.

THE GOODYEAR TIRE & RUBBER CO.
6701 South Central Avenue
Los Angeles 1, California

PRODUCTS: Tires; Recapping Services (large off-the-road and earthmover tire recapping and large over-the-road truck tire recapping); Hose; Flat and Transmission Belting; V-Belts; Conveyor Belting and various molded and extruded items; Tank Lining; Rubber-covered Rolls.

Factory Personnel

CALIFORNIA
Los Angeles—6701 South Central
R. W. Maney.....Vice President
M. F. Gillespie.....Plant Manager
C. A. Crafts.....Region Manager
R. G. Abbott.....Manager—Industrial Products Div.

District Managers

ARIZONA
Phoenix—2030 W. Fillmore St.....R. R. Sawdey

CALIFORNIA
Los Angeles—666 E. Wash. Blvd.....E. C. Heideman
So. Calif. District.....B. L. Lockridge
Industrial Products.....J. P. Gormly
Sacramento—1724-10th at R St.....A. Piquette
San Francisco—1717 Harrison St.....H. L. Narwitz
J.C. Jolley

COLORADO
Denver—1030 W. 3rd Ave.....M. C. McAlonan
1207 Wazee St.....J. L. Reid

ONTARIO
Billings—S. 29th at RR Crossing.....M. T. Laughlin

OREGON
Portland—2720 NW 35th Ave.....R. C. Sitterle

UTAH
Salt Lake City—46 Fayette St.....D. A. Kingdon

WASHINGTON
Seattle—1112 Airport Way.....M. A. May
Spokane—S. 164 Washington.....L. B. Freyer

Managers—Retread Plants

CALIFORNIA
Los Angeles—6701 S. Central.....V. L. Moxon

COLORADO
Denver—1207 Wazee St.....C. Cowles

WASHINGTON
Spokane—220 W. Main St.....J. Clavel

THE GORMAN-RUPP CO.
305 Bowman Street
Mansfield, Ohio

PRODUCTS: Self-Priming Centrifugal Pumps; Diaphragm Pumps.

District Representative

CALIFORNIA
Palo Alto—110 Walter Hays Dr...Robt. L. Nicolai

Distributors

CALIFORNIA
Arcata.....Loggers & Mill Supply Co.
Bakersfield.....Brown-Bevis Industrial Equipment Co.
Los Angeles.....Harron, Rickard & McCone of S. Cal.
N. Sacramento.....Industrial Tractor Sales
Oakland.....Bay Cities Equipment, Inc.
Redding.....Paul Droscher Sales
Shasta Truck & Equipment Sales

San Diego.....Gould Hardware & Machinery Co.
San Jose.....Bay Cities Equipment, Inc.
San Francisco.....Standard Machinery Co.
Stockton.....Delta Tractor Co.

COLORADO
Denver.....Faris-Moritz Equipment Co.

(Continued in next column)

The Gorman-Rupp Co. (Cont'd)

IDAHO
Boise.....Starline Equipment Co.

MONTANA
Billings.....Western Construction Eqt. Co.
Great Falls.....Western Construction Eqt. Co.

NEVADA
Reno.....Reno Equipment Sales Co.
Tractor Equipment Co.

NEW MEXICO
Albuquerque.....The Harry Cornelius Co.

OREGON
Eugene.....Western Equipment Co.
Portland.....Andrews & Andrews Equipment
Western Equipment Co.

UTAH
Salt Lake City.....Lang Construction Eqt. Co.

WASHINGTON
Seattle.....Northern Commercial Co.
Pacific Hoist & Derrick Co.
Spokane.....Andrews Eqt. Service of Wn., Inc.
Wenatchee.....Mid-State Equipment Co.

WYOMING
Casper.....Studer Tractor & Equipment Co.

W. E. GRACE MANUFACTURING CO.
6000 South Lamar Street
Dallas 15, Texas

PRODUCTS: Road Sweepers; Pneumatic Rollers; Sheep-foot Rollers; Chip Spreaders; Asphalt Heaters, oil and circulating; Asphalt Distributors; Asphalt Pumps.

Distributors

ARIZONA
Phoenix.....Equipment Sales Co.

CALIFORNIA
Los Angeles.....Brown-Bevis Industrial Eqt. Co.

COLORADO
Denver.....Joe Smith Machinery Co.

IDAHO
Boise.....Engineering Sales Service Co., Inc.

NEW MEXICO
Albuquerque.....Contractors Equipment & Supply Co.

OREGON
Portland.....Contractors Equipment Corp.

GRADALL DIVISION

The Warner & Swasey Co.
5701 Carnegie Avenue
Cleveland 3, Ohio

PRODUCTS: Multi-Purpose Earthmoving and Construction Machines.

District Manager

CALIFORNIA
Los Angeles—3340 Leonis Blvd.....R. Bechtel

Distributors

ARIZONA
Phoenix.....Road Machinery Co.
Tucson.....Road Machinery Co.

CALIFORNIA
Los Angeles.....Brown-Bevis Industrial Equipment Co.
Sacramento.....Western Traction Co.
San Diego.....Brown-Bevis Industrial Equipment Co.
San Francisco.....Western Traction Co.

COLORADO
Denver.....Liberty Trucks & Parts Co.

MONTANA
Billings.....Western Construction Equipment Co.
Great Falls.....Western Construction Equipment Co.

NEVADA
Reno.....Reno Equipment Sales

NEW MEXICO
Albuquerque.....Contractors Equipment & Supply Co.

OREGON
Portland.....Columbia Equipment Co.

UTAH
Salt Lake City.....Arnold Machinery Co.

WASHINGTON
Seattle.....Columbia Equipment Co.
Spokane.....Columbia Equipment Co.

WYOMING
Casper.....Kereml Tractor & Equipment Co.
Cheyenne.....Kereml Tractor & Equipment Co.

GRAY CO., INC.

60-11th Avenue N. E.
Minneapolis 13, Minnesota

PRODUCTS: Portable Field Lubricating Equipment; Grease Rigs; Contractors' Lubricating Equipment; Paint Spray Equipment; Putty Pumps; Water Repellent Application Equipment; Equipment for applying highway joint sealers.

Factory Branch

CALIFORNIA
San Francisco—141 11th St.....A. E. Perry

District Managers

CALIFORNIA
Covina—1504 E. Badillo.....R. D. Zavitz
San Francisco—141 11th St.....C. L. Masteller

COLORADO
Denver—895 Dahlia #16.....W. G. Egloff

WASHINGTON
Seattle—3455-33rd Ave W.....Andrew Tapsak

GREENVILLE STEEL CAR CO.

Greenville, Pennsylvania

PRODUCTS: Tractor Mounted Rock Ripper.
See your International Harvester Industrial Dealer.

GRIPHOIST, INC.

424 Bryant Street
San Francisco 7, California

PRODUCTS: GRIPHOIST, a portable lightweight hoisting and pulling machine; uses 1/2" wire rope instead of chain, manually operated, features unlimited cable travel; Model T-35 — heavy duty companion product weighing only 60 lbs., 3-ton capacity, uses 5/8" wire rope.

Distributors

ALASKA
Anchorage.....Bashaw Equipment Co.
Fairbanks.....Miller & Bentley
Bashaw Eqt. Co.

ARIZONA
Phoenix.....Arizona Welding Equipment Co.
Complete Industrial Supply
Tucson.....AWECO Supply Co.
Complete Industrial Supply

CALIFORNIA
Berkeley.....J. R. Feeney Co.
El Monte.....Warnock-Bancroft Equipment Co.
Fresno.....Fresno Wire Rope & Rigging Co.
Los Angeles.....John A. Batchelor Co.
Cable Distributors
Fornaciari Company

San Diego.....San Diego Spring & Brake Works
San Francisco.....Weeks-Howe-Emerson
C. H. Bull Co.
Lebose Sales

San Gabriel.....Abernathy & Co.
South Gate.....Cost Reduction Equipment Co.
Stockton.....Stockton Iron Works

COLORADO
Denver.....Tudor Equipment Co.
Union Supply Co.

IDAHO
Boise.....Intermountain Equipment Co.
Wallace.....Coeur d'Alene Hardware & Fdry. Co.

OREGON
Portland.....George M. Philpott Co.

UTAH
Salt Lake City.....Holland Equipment Co.

WASHINGTON
Seattle.....Clyde Equipment Co.
Rice Sales Co.
Tacoma.....St. Paul & Tacoma Lumber Co.

GUNTERT & ZIMMERMAN CONST. DIV., INC.

P.O. Box 1688, Lindsay & Monroe Sts.
Stockton, California

PRODUCTS: Batch Plants; Batchers; Bins; Concrete Placing Equipment; Belt Conveyors; Dredging Equipment; Dridges; Steel Tunnel and Dam Forms; Screens; Subgraders; Vibrators; Aggregate Washing Plants; Tugs; Barges; Cranes; Highway Machines.

C. I. T.'s Pay-As-You-Depreciate Plan permits payments out of depreciation

H & L TOOTH CO.

1540 S. Greenwood Avenue
Montebello, California

PRODUCTS: Teeth for excavating equipment; Earth Augers; Bulldozer Front End Rippers; Bulldozer Corner Bits.

Distributors

ARIZONA
Phoenix.....Western Machinery Co.
CALIFORNIA
Bakersfield.....Hopper Machine Co.
Fresno.....Edward R. Bacon Co.
Sacramento.....Edward R. Bacon Co.
San Francisco.....Edward R. Bacon Co.
COLORADO
Denver.....Air Rentals, Inc.
IDAHO
Boise.....Starline Equipment Co.
MONTANA
Billings.....Hall-Perry Machinery Co.
Butte.....Hall-Perry Machinery Co.
Great Falls.....Hall-Perry Machinery Co.
NEVADA
Reno.....Sierra Machinery Co.
NEW MEXICO
Albuquerque.....Contractors Equipment & Supply Co.
OREGON
Portland.....Loggers & Contractors Mch. Co.
UTAH
Salt Lake City.....Heiner Equipment Co.
WASHINGTON
Seattle.....Totem Equipment Co.
Spokane.....Western Machinery Co.

THE HANSON CLUTCH & MACHINERY CO.

Miami Street
Tiffin 15, Ohio

PRODUCTS: Shovels; Cranes; Back Hoes; Draglines, both crawler and rubber mounted; Truck and Wagon Cranes; Low Platform Machinery Trailers; Yard and Dock Cranes, 3 and 5 tons.

Distributors

ARIZONA
Phoenix.....Arizona Cedar Rapids Co.
CALIFORNIA
Los Angeles.....Larson Equipment Co.
San Diego.....Kenton Equipment Co.
San Francisco.....Fred E. Barnett Co.
COLORADO
Denver.....Accessory Supply Co.
OREGON
Klamath Falls.....Fred E. Barnett Co.
Portland.....Fred E. Barnett Co.

HARCO MANUFACTURING CO.

2041 S. W. 58th Street
Portland 1, Oregon

PRODUCTS: Dry Air Filters; Pre-Cleaners; Oil Batch Air Cleaners; Exhaust Spark Arrestors; Rain Caps; Rain Traps; Truck Mufflers.

Sales Representative

CALIFORNIA
Redwood City—4 Sequoia Way.....Franklin B. Lyons

Distributors

ARIZONA
Phoenix.....Southwest Engine Products Corp.
Waukesha Southwestern
CALIFORNIA
Fresno.....W. J. Joy
Los Angeles.....Tractor Equipment Distributors
Redding.....Moty & Van Dyke
Redwood City.....Franklin B. Lyons
Richmond.....Pacific Tractor & Implement
South Gate.....Filter Supply & Service
COLORADO
Denver.....C. & C. Tire and Supply Co.
Filter Supply Co.
IDAHO
Boise.....Intermountain Equipment Co.
Lewiston.....Jameson Machine Supply Co.
Twin Falls.....United Automotive Service
MONTANA
Billings.....Hines Motor Supply Co.
Great Falls.....Hines Motor Supply Co.

(Continued in next column)

Harco Manufacturing Co. (Cont'd)

NEW MEXICO
Albuquerque.....Oil Filter Service Co.
OREGON
Portland.....Columbia Tractor & Implement Co.
Oil Filter Service Co.
WASHINGTON
Spokane.....Carburetor & Electric Co.
(Portland).....Oil Filter Service Co.

HARDY SCALES COMPANY

5701 S. Atlantic Blvd.
Maywood, California

PRODUCTS: Automatic Batching Scales; Hopper Levers; Dials and Beams; Gates and Valves; Continuous Weigh Equipment

Distributors

CALIFORNIA
Huntington Park.....Likens Manufacturing Co.
Los Angeles.....Gar Bro Manufacturing Co.
Keith Engineering Co.
Link Belt Co.
Standard Steel Corp.
Lynwood.....Willard Concrete Machinery
Redondo Beach.....Heltzel Steel Form & Iron Co.
Sacramento.....L. R. Murphy Scale Co.
San Francisco.....T. R. Mantes Co.
IDAHO
Boise.....Idaho Sprocket & Machine Works, Inc.
OREGON
Portland.....Larson & Baardson
UTAH
Richfield.....Elmo Herring
Salt Lake City.....Douglas Scale & Equipment Co.
WASHINGTON
Seattle.....Washington Machinery
Spokane.....Spokane Machinery
Tacoma.....Larson & Baardson

HARNISCHFEGER CORP.

4400 West National Avenue
Milwaukee 46, Wisconsin

PRODUCTS: Truck Cranes; Diesel Engines; Power Shovels; Soil Stabilizers; Elevating Loaders; Welding Equipment; Overhead Cranes; Hoists; Prefabricated Homes; Electrical Equipment.

Pacific Division Headquarters & Plant

CALIFORNIA
Los Angeles—General Manager.....B. Pratte

Factory Branches

ARIZONA
Phoenix—District Manager.....J. H. Taylor
CALIFORNIA
Los Angeles—District Manager.....Rod Bartlett
San Francisco—District Manager.....Wm. DeHuff
COLORADO
Denver—District Manager.....E. J. Sullivan
WASHINGTON
Seattle—District Manager.....P. H. Hunter

Distributors

CODE: "H" for Hoists; "X" for Excavators; "WR" for Welding.
ALASKA
(Seattle).....The Carrington Co. (X-WR)
ARIZONA
Phoenix.....Arizona Equipment Sales, Inc. (H-X)
Smith & Klemmer Co. (WR)
United Auto Weld Co. (WR)
Prescott.....Arizona Mining Supply Corp. (WR)
CALIFORNIA
Alhambra.....Frank Cox Equipment Co. (WR)
Alturas.....Moty & Van Dyke (WR)
Bakersfield.....Hopper Machine Works (H-WR)
Berkeley.....Leader Welding & Emt. Co. (WR)
Compton.....Industrial-Welding Supply Co. (WR)
Emeryville.....Balaam Bros. (WR)
Escondido.....Kirk Supply Co. (WR)
Eureka.....Riley Logging (X)
Fresno.....Allied Equipment Co. (X)
Federal Pipe & Supply Co. (WR)
Glendale.....H. M. Parker & Son (WR)
Long Beach.....Long Beach Welding Supply Co. (WR)
H. I. Tullis (WR)
Los Angeles.....Absco Welding Supplies (H-WR)
Brown-Beris Industrial Emt. Co. (WR)
P. George Pennington (WR)
H. C. Witherspoon Co. (WR)
Oakland.....Blakemore Equipment Co.

(Continued in next column)

Harnischfeger Corp. (Cont'd)

Ontario.....A & R Equipment Co. (WR)
Redding.....Paul Droscher Sales (WR)
Sacramento.....Capital Machine Works (H)
Salinas.....Farmers Mercantile Co. (WR)
Lacey Automotive Parts Co. (WR)
San Diego.....Production Tools, Inc. (WR)
Southern Emt. & Supply Co. (WR)
San Francisco.....Federal Pipe & Supply Co. (WR)
General Conveyor, Inc. (H)
Ira G. Perlin Co. (H)
Jay Besore & Associates (WR)
Sullivan-Cassimus Co. (WR)
San Jose.....A. G. Pond Co. (WR)
San Leandro.....Middleton's Welder Supply (WR)
Santa Ana.....V. B. Anderson Co. (WR)
Santa Rosa.....E. C. Kraft & Co. (WR)
Stockton.....Nickinbotham Bros. Ltd. (WR)

COLORADO

Denver.....General Welding Supply Co. (H-WR)
Liberty Trucks & Parts Co. (X)
Lloyd's Railway Supplies (WR)
The Winter-Weiss Co. (WR)
Ft. Collins.....Forney Manufacturing Co. (WR)
Pueblo.....Motor Accessory & Parts Co. (WR)

IDAHO

Boise.....Starline Equipment Co. (X)
Western Equipment Co. (WR)
Lewiston.....Erb Hardware Co. (WR)
Pocatello.....Western Machinery Co. (H)

MONTANA

Great Falls.....Seitz Machinery Co. (X)
Helena.....Caird Engineering Works (WR)
Kalispell.....Treasure State Equipment Co. (X-WR)

NEVADA

Reno.....Pioneer Equipment Co., Inc. (X)

NEW MEXICO

Albuquerque.....Contractors Emt & Supply Co. (X-WR)
Leonard Motor Co. (WR)

OREGON

Eugene.....American Steel & Supply Co. (H-WR)
Klamath Falls.....Moty & Van Dyke (WR)
Portland.....Loggers & Contractors Mch. Co. (X-WR)
Portland Machinery Co. (H)
Roseburg.....Industrial Electric Service Co. (H)

UTAH

Hurricane.....Scholzen Products Co. (WR)
Ogden.....C & C Welding Supply Co. (WR)
Salt Lake City.....Koesel & Love (WR)

WASHINGTON

Aberdeen.....Industrial Elec. Service Co. (H-WR)
Bellingham.....Eldahl & Seppala, Inc. (WR)
Seattle.....Acetogen Cutting Gas Co. (WR)
Air Mac, Inc. of Washington (H)
Spokane.....Grange Cooperative Wholesale (WR)
Tacoma.....Miraldi Welding Supplies, Inc. (WR)

HAWK MANUFACTURING CO.

124-136 Tenth Street
Brooklyn 15, New York

PRODUCTS: Oil and Gas Burning Asphalt Kettles; Concrete Heaters, Portable Heaters, Oil & Gas; Oil Burners; Oil and Gas Burners for sand and stone.

Factory Branch Managers

CALIFORNIA
Los Angeles—254 S. Broadway.....Alvin Cunningham
San Francisco—625-3rd St.....H. B. Cleveland

Distributors

Individual distributor names will be furnished upon request.

HAWKINS-HAWKINS CO., INC.

1255 Eastshore Highway
Berkeley 10, California

PRODUCTS: Highway Guide Posts; Steel Sign Posts; Traffic Signs; Reflectors; Barricades; Portable Signs and Standards; Red Danger Flags; Flashing Lights; Delimiters for detour; Special Traffic Guide Signs; Fold-Away Sign Assemblies; Safety Bars; Reflective Sheeting; Pavement Paints; Traffic Liners; Paint Conditioners; Guard Railings, etc.

Factory Branches

CALIFORNIA
Los Angeles—P.O. Box 41047.....Jack Miller
COLORADO
Denver—1018 Lawrence St.....L. S. Rees

Distributors

ARIZONA
Phoenix.....Garland Steel Co.
(Continued on next page)

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
Equitable Building, Portland

Hawkins-Hawkins Co., Inc. (Cont'd)

CALIFORNIA
 San Francisco.....Edward R. Bacon Co.
LORADO
 Denver.....L. S. Reed & Co.
UTAH
 Reno.....Pioneer Equipment Co.
 Sierra Machinery Co.
NEW MEXICO
 Albuquerque.....McCaffrey Way Materials & Supply Co.
OREGON
 Portland.....Traffic Safety Supply Co.

M. HEED, INC.

30-01 - 37th Avenue
 Long Island City 1, New York

PRODUCTS: Hydraulic Jacks for slipform construction; Steel Yokes; Pumps; Oil Pipe and Connections, etc.; Complete Equipment supplied for raising of forms—leased only; Slipform Machine for single silo construction—sold or leased.

Factory Branch

CALIFORNIA
 San Francisco—630 6th St.

HE HEIL CO.

3000 West Montana
 Milwaukee 1, Wisconsin

PRODUCTS: Truck Bodies; Hydraulic Hoists; Hydraulic Tailgates; Refuse Collection Units.

Regional Managers

CALIFORNIA
 Los Angeles—2999 W. 6th St.....Len Anderson
LORADO
 Denver—
 2034 First Natl Bank Bldg.....John Zimmerman
WASHINGTON
 Seattle—708 5th Avenue So.....Claude Conrad

Distributors

ALASKA
 (Seattle).....The Carrington Co.
ARIZONA
 Phoenix.....Utility Trailer Sales Co.
CALIFORNIA
 Los Angeles.....Standard Auto Body Co., Inc.
 Modesto.....Heil Equipment of No. California
 Sacramento.....Heil Equipment of No. California
 San Francisco.....Heil Equipment of No. California
ONTARIO
 Billings.....H-C-L Equipment Co.
 Great Falls.....H-C-L Equipment Co.
 Missoula.....Graehl Motor Service
OREGON
 Portland.....Schetky Equipment Corp.
UTAH
 Salt Lake City.....Lang Construction Eqpt. Co.
WASHINGTON
 Seattle.....American Machine Co.

HELTZEL STEEL FORM & IRON CO.

1750 Thomas Road
 Warren, Ohio

PRODUCTS: Portable Aggregate Batch Plants; Portable Bulk Cement Plants; Stationary Batching Plants for the concrete products; Transit-Mix and Central-Mix Industries; Bulk Cement Batching Plants; Concrete Buckets; Road and Airport Forms; Curb, Curb and Gutter, Sidewalk and Special Forms; Storage Bins; Bulk Cement Elevators; Truck Mixer Batchers; Combination Batchers; Universal Batchers; Dual Aggregate Batchers; Dustless Cement Batchers; Dual Cement Batchers.

District Manager

CALIFORNIA
 Redondo Beach—P.O. Box 427.....Ken Simpson

Distributors

ARIZONA
 Phoenix.....Equipment Sales Co.
LORADO
 Denver.....Constructors Equipment Co., Inc.

(Continued in next column)

Heltzel Steel Form & Iron Co. (Cont'd)

IDAHO
 Boise.....Starline Equipment Co.
MONTANA
 Billings.....Hall-Perry Machinery Co.
 Butte.....Hall-Perry Machinery Co.
 Great Falls.....Hall-Perry Machinery Co.
 Missoula.....Hall-Perry Machinery Co.
NEW MEXICO
 Albuquerque.....Contractors Equipment & Supply Co.
OREGON
 Portland.....Columbia Equipment Co.
UTAH
 Salt Lake City.....Atlas Equipment Co.
WASHINGTON
 Seattle.....Columbia Equipment Co.
 Spokane.....Columbia Equipment Co.
WYOMING
 Cheyenne.....Keremi Tractor & Equipment Co.

HENDRIX MANUFACTURING CO., INC.

Jenkins Street—P. O. Box 31
 Mansfield, Louisiana

PRODUCTS: Dragline Buckets.

Write us for name of your nearest dealer.

HENRY MANUFACTURING CO., INC.

1700 N. Clay Street
 Topeka, Kansas

PRODUCTS: Backhoes; Tractor Shovels; Fork Lifts; Bulldozers; Pipe Pushers; Rippers; Street Sweepers.

Distributors

CALIFORNIA
 Stockton.....The H. C. Shaw Co.
COLORADO
 Denver.....The Parker Co.
MONTANA
 Great Falls.....Ferris-Killion Implement Co.
OREGON
 Portland.....Mitchell, Lewis & Staver

HENSLEY EQUIPMENT CO., INC.

800 Peralta Avenue
 San Leandro, California

PRODUCTS: Ripping Attachments for dozers, scrapers, loader buckets, motor graders; Scarifier Points and Shanks; Overlay End Bits for motor graders; Rock End Bits for dozers; Cutting Edges for dozers and scrapers; Bottom Track Rollers for all crawler tractors; Track Rails; Heavy Duty and Standard Grouser Pads for Crawler Tractors; Weld-on Sprocket Rims; Shovel Teeth; Brush Clearing Rakes.

Distributors

ALASKA
 Anchorage.....Western Tractor & Equipment Co.
 Fairbanks.....Western Tractor & Equipment Co.
ARIZONA
 Phoenix.....Complete Industrial Supply
 Equipment Sales Co.

CALIFORNIA
 Bakersfield.....Bakersfield Machine Co.
 Chico.....Chico Auto Parts
 Colusa.....Emerson-Braden Co.
 Cucamonga.....Philmac Co.
 Eureka.....McGaraghan Supply Co.
 Fresno.....Contractors Equipment & Supply
 Los Angeles.....Leo M. Shanahan Co.
 Marysville.....Hust Bros.
 Petersman Equipment Co.
 Oroville.....Oroville Cable & Equipment
 Redding.....Lowry Equipment Co.
 Sacramento.....Fred E. Barnett Co.
 San Diego.....Wescott Machinery Co.
 San Diego Spring & Brake
 San Luis Obispo.....Farmers Hardware & Equipment Co.
 Santa Rosa.....Stevenson Equipment Co.
 Stockton.....Stockton Iron Works
 Ukiah.....Holtz Co.
 Willows.....Westside Tractor & Equipment Co.

COLORADO
 Englewood.....Track Service, Inc.
 Grand Junction.....S & M Supply
 Pueblo.....Colorado Road Machinery Co.

(Continued in next column)

Hensley Equipment Co., Inc. (Cont'd)

IDAHO
 Boise.....Bunting Tractor Co.
 Coeur d'Alene.....Brack Motor Supply
 Lewiston.....Henderson Motors, Inc.
MONTANA
 Billings.....Westate Machinery Co.
 Great Falls.....Brack Motor Supply
NEVADA
 Reno.....Pioneer Equipment Co.
 Truckee.....Select Supply Co.
NEW MEXICO
 Albuquerque.....Lively Equipment Co.
OREGON
 Brookings.....B & H Logging Supply
 Eugene.....Interstate Tractor & Equipment
 Western Equipment Co.
 Medford.....Cal-Ora Machinery Co.
 Portland.....Interstate Tractor & Equipment
 Western Equipment Co.

UTAH
 Salt Lake City.....Holland Equipment Co.

WASHINGTON
 Seattle.....Pacific Hoist & Derrick
 Western Machinery Co.
 Western Tractor & Equipment

WYOMING
 Cheyenne.....Keremi Tractor & Equipment Co.

HERCULES MOTORS CORP.

Market and E. 11th Streets
 Canton, Ohio

PRODUCTS: Internal Combustion Engine and Power Units.

Warehouse

CALIFORNIA
 Los Angeles—2336 S. Garfield Ave.....J. E. Barolet

Distributors

ALASKA
 Anchorage.....Bashaw Equipment Co.
 Fairbanks.....M & O Auto. Parts & Eqpt.
ARIZONA
 Phoenix.....Schuler & James, Inc.
CALIFORNIA
 Long Beach.....Engine & Equipment Co.
 Los Angeles.....Hercules Engine & Parts Co.
 San Diego.....Westerlund & Lange
 San Francisco.....Bay Engine & Parts Co.
COLORADO
 Denver.....Liberty Truck & Parts Co.
IDAHO
 Boise.....The Sawtooth Co.
MONTANA
 Billings.....Western Construction Equipment Co.
NEW MEXICO
 Albuquerque.....Pound Brothers
OREGON
 Portland.....McKinley Co.
UTAH
 Salt Lake City.....Diamond T. Utah, Inc.
WASHINGTON
 Seattle.....Hatch & Kirk
 Spokane.....Hatch & Kirk

HERCULES POWDER CO.

120 Montgomery Street
 San Francisco 4, California

PRODUCTS: High Explosives and Blasting Supplies.

Sales Offices

CALIFORNIA
 Los Angeles—Resident Manager...W. F. McCandlish
 San Francisco—Manager.....F. Geo. Trescher
UTAH
 Salt Lake City—Manager.....L. W. Early
 Dealers are located in principal cities.

HERCULES STEEL PRODUCTS CO.

Sherman Street
 Galion, Ohio

PRODUCTS: Batch Plants; Cylinders (Hydraulic and Air); Dump Bodies; Hydraulic Hoists; Trailers; Truck Mixers; Lift Gates.

Distributors

ARIZONA
 Phoenix.....Southwest Truck Body & Eqpt. Co.

(Continued on next page)

**C. I. T. provides experienced financing for
 Distributors and Contractors**

Hercules Steel Products Co. (Cont'd)

CALIFORNIA	Earl Sherman Co.
Oakland	
COLORADO	McKah Equipment Co., Inc.
Alamosa	
IDAHO	B & M Wholesale Co.
Caldwell	
MONTANA	H-C-L Equipment Co.
Billings	
OREGON	Newell Truck Equipment Co.
Portland	
UTAH	Wagstaff Co.
Salt Lake City	

HETHERINGTON & BERNER, INC.

701 Kentucky Avenue
Indianapolis 7, Indiana

PRODUCTS: Bituminous Mixing Plants; Dredging Equipment; Moto Pavers; Asphalt Paving Equipment; Asphalt Plants.

Distributors

ARIZONA	O. S. Stapley Co.
Phoenix	
COLORADO	Western Machinery Co.
Denver	
IDAHO	Rocky Mountain Machinery Co.
(Salt Lake)	
OREGON	Contractors Equipment Corp.
Portland	
UTAH	Rocky Mountain Machinery Co.
Salt Lake City	
WASHINGTON	Contractors Equipment Corp.
(Portland)	
WYOMING	Moss Equipment & Supply Co.
Casper	

HEVI-DUTY ELECTRIC CO.

2040 W. Wisconsin Avenue
Milwaukee 1, Wisconsin

PRODUCTS: Dry-type Transformers for distribution, insulation and power.

Representative

CALIFORNIA	Wm. Montgomery, Jr.
Culver City	
10826 Venice Blvd.	

Distributors

CALIFORNIA	Roy Pack Associates
Arcadia	
San Francisco	Paul S. Everley Co.
COLORADO	Colorado Western Sales Co.
Denver	
NEW MEXICO	Joe E. Pearce & Associates
Albuquerque	
OREGON	J. A. Tudor & Associates
Portland	
WASHINGTON	Muth-Richards Co.
Seattle	

HEWITT-ROBINS, INC.

666 Glenbrook Road
Stamford, Connecticut

PRODUCTS: Conveyor Belting and Machinery; Vibrating Screens and Conveyors; Power Transmission Equipment; Hose of all types; Industrial Rubber Products; Engineering of Materials Handling Systems; Urethane Foam; Screen Cloth; Bin Level Indicators; Bin Vibrators; Car Pullers; Vibrating Feeders; Bucket Elevators; Car Shakeouts.

Regional Manager

CALIFORNIA	G. V. Migula
Los Angeles	2604 S. Malt Ave.

District Managers

CALIFORNIA	S. T. C. Zinter
San Francisco	55 New Montgomery St.
UTAH	J. E. Van Stone
Salt Lake City	458 S. Third St. E.

Field Engineers

ARIZONA	F. L. Brucker
Phoenix	207B Camelback Rd.
COLORADO	G. G. Leckner
Denver	660 Bannock St.
5075 Colorado Blvd.	J. W. Blair
OREGON	G. W. Vavrek
Portland	714 N.E. First Ave.
WASHINGTON	J. I. Previs
Seattle	641 Dexter Horton Bldg.

HIGHWAY EQUIPMENT CO.

616 D Avenue Northwest
Cedar Rapids, Iowa

PRODUCTS: Asphalt Pavers; Aggregate Spreaders; Sand, Salt, Cinder, Chip and Chloride Spreaders; Cement Bodies.

District Representative

WASHINGTON	C. A. Meader
Veradale—P.O. Box 8	

Distributors

(Seattle)	The Carrington Co.
ALASKA	
ARIZONA	Equipment Sales Co.
Phoenix	
CALIFORNIA	Brown-Bevis Industrial Ept. Co.
Los Angeles	
San Francisco	Standard Machinery Co.
COLORADO	H. W. Moore Equipment Co.
Denver	
IDAHO	Feenaughty Machinery Co.
Boise	
(Salt Lake)	Rocky Mountain Machinery Co.
MONTANA	Pioneer Equipment & Supply Co.
Butte	
Great Falls	Normont Equipment Co.
NEVADA	Sierra Industrial Co., Inc.
Reno	
NEW MEXICO	N. C. Ribble Co.
Albuquerque	
OREGON	Feenaughty Machinery Co.
Portland	
UTAH	Rocky Mountain Machinery Co.
Salt Lake City	
WASHINGTON	Feenaughty Machinery Co.
Spokane	
WYOMING	Wortham Machinery Co.
Cheyenne	

HIGHWAY TRAILER CO.

405 East Fulton Street
Edgerton, Wisconsin

PRODUCTS: Utility Equipment such as: Earth Boring Machines; Winches; Power Takeoffs; Line Construction and Maintenance Bodies; Utility Trailers and associated equipment.

Distributors

ARIZONA	W. H. Eddy Electric Products, Inc.
Phoenix	
CALIFORNIA	Calavar Corp.
Los Angeles	
San Francisco	The F.W.D. Pacific Co.
COLORADO	Macdonald Equipment Co.
Denver	
UTAH	Utah Truck Equipment Co.
Salt Lake City	
WASHINGTON	Robblee Utilities Equipment
Seattle	
WYOMING	Century White Truck Co.
Casper	

HOBBY BROTHERS

Hobart Square
Troy, Ohio

PRODUCTS: Electric or Gasoline Driven Arc Welders; Power Units; Combination Units; Welding Accessories and Electrodes.

Distributors

ALASKA	Nicholson Welding & Supply Co.
Juneau	
ARIZONA	Dye Oxygen Company
Phoenix	
Tucson	Phoenix Welding Supply Co.
CALIFORNIA	Dye Oxygen Company
Bakersfield	Bakersfield Welding Supply
Blythe	Blythe Auto Parts
Campbell	Harry Gerin
Emeryville	Balaam Bros.
Los Angeles	Anderson Equipment Co.
Modesto	Hobart Welder Sales & Service
Oakland	Benson & Zimmerman Co.
Ontario	Alloy Hardfacing Co.
Oxnard	Helit Equipment Co.
Pleasant Hill	A & R Equipment Co.
San Bernardino	Barnes-Duff Supply Co.
	Myron A. King
	Portugal Oxygen Co.
	Welders Supply Co.

(Continued in next column)

Hobart Brothers (Cont'd)

San Diego	Bailey Equipment Co.
San Diego	San Diego Welders Supply Co.
San Francisco	J. R. Zakis
San Jose	Pacific Hardware & Steel Co., Inc.
Santa Ana	V. B. Anderson
Santa Rosa	Reliable Hardware & Steel Co.
Ukiah	Holz Co.

COLORADO

Denver	Acetylene Service Co.
	United States Welding Works Co., Inc.
Grand Junction	Williams Supply Co.
Pueblo	J. F. Damman Supply Co.

IDAHO

Boise	Intermountain Equipment Co.
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MONTANA

Billings	H & R Supply Co.
Butte	General Distributing Co.
Great Falls	General Distributing Co.

NEVADA

Las Vegas	McQuay Supply Co., Inc.
Reno	Sierra Industrial Co., Inc.

NEW MEXICO

Albuquerque	R. L. Harrison Co., Inc.
	Valley Welders Supply Co.
Carlsbad	New Mexico Welding Supply Co.
Clovis	New Mexico Welding Supply Co.
Farmington	Valley Welders Supply Co.
Hobbs	New Mexico Welding Supply Co.
Las Cruces	Valley Welders Supply Co.

OREGON

Baker	Britton Bros.
Medford	Industrial Air Products Co.
Portland	Welders Supply Co.
	Industrial Air Products Co.

UTAH

Salt Lake City	Whitmore Oxygen Co.
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WASHINGTON

Kennewick	Industrial Air Products Co.
Seattle	Industrial Air Products Co.
	Yukon Equipment Co.
Spokane	Industrial Air Products Co.
Yakima	Industrial Air Products Co.

WYOMING

Casper	U. S. Welding Supply, Inc.
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HOBBY TRAILERS

609 North Main Street
Fort Worth 1, Texas

PRODUCTS: Low Bed Trailers; Self-Loading Float Trailers; Hydraulic Dump Bodies; Cable Dump Trailers; Flatbed Trailers; Winch and Gin Pole Truck Bodies; Van (equipment storage) Trailers.

Factory Branch Manager

COLORADO	Bill Fortenberry
Denver	3510 Brighton Blvd.

Distributors

ARIZONA	Auto Safety House
Phoenix	
CALIFORNIA	M & H Truck & Trailer Co.
San Leandro	
Vernon	Conestoga Equipment Co.
West Sacramento	Sutton Truck Sales
COLORADO	Hobbs Trailer Co.
Denver	
IDAHO	Williamsen Body & Equipment Co.
Boise	
Pocatello	Williamsen Body & Equipment Co.
MONTANA	Erwin H. Johnson, Inc.
Great Falls	
NEVADA	Reno Equipment Sales Co.
Reno	
NEW MEXICO	Hobbs Trailer Co. of New Mexico
Albuquerque	
OREGON	Commercial Trailer Sales
Portland	Douglas Hood Co.
UTAH	Williamsen Body & Equipment Co.
Ogden	
Salt Lake City	Williamsen Body & Equipment Co.
WASHINGTON	Alloy Manufacturing Co.
Spokane	

HOMELITE, A Division of Textron, Inc
Riverdale Avenue
Port Chester, New York

PRODUCTS: Gasoline-Engine-Driven Chain Saws; Generators; Self-Priming Pumps; Blowers; Diaphragm Pumps; Floodlights; Vibrators; Electric Rock Drills and Paving Breakers.

(Continued on next page)

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
Equitable Building, Portland

Omelite Division (Cont'd)

Factory Branches

ALABAMA
Fresno—2308 Ventura St. James Harmon
Los Angeles—300 W. Valley Blvd. Ralph Evans
Sacramento—2234 Auburn Blvd. Richard Dodelin
S. San Francisco—727 Airport Blvd. Robert Glidden

COLORADO
Denver—1040 10th St. Lou Roy Faylor

IDAHO
Portland—3436 SE Milwaukie. James Walsh

UTAH
Salt Lake City—7440 Highway 91. Lynn Peterson

WASHINGTON
Seattle—1911 22nd Ave. Doug Sherwood
Spokane—3927 Trent Ave. Eugene LaMarche

THE FRANK G. HOUGH CO.

890 Sunnyside Avenue
Libertyville, Illinois

PRODUCTS: Tractors and Tractor-Shovels.

District Managers

ALABAMA
Hillsborough—1485 Lake View Dr. Don Ross
Ingleswood—10509 Third Ave. Merle Fate

COLORADO
Denver—1200 Pearl St., Apt. 206. Irving Jacobsen

IDAHO
West Linn—5597 Hood St. Carl Riegert, Jr.

Distributors

ALASKA
Anchorage. The Carrington Co.
Fairbanks. The Carrington Co.

ARIZONA
Phoenix. Copper State Tractor Co.
Tucson. F. Ronstadt Hardware Co.

CALIFORNIA
Bakersfield. Brown-Bevis Industrial Eqpt. Co.
Eureka. Howard-Cooper Corp. of California
Five Points. Allied Equipment Co.
Fresno. Allied Equipment Co.
Los Angeles. Brown-Bevis Industrial Eqpt. Co.
Madera. Allied Equipment Co.
Oakland. Bay Cities Equipment, Inc.
Redding. Howard-Cooper Corp. of California
Redley. Allied Equipment Co.
Riverside. Brown-Bevis Industrial Eqpt. Co.
Sacramento. Sacramento Valley Tractor Co.
San Diego. Southern Equipment & Supply Co.
San Jose. Bay Cities Equipment Co., Inc.
Santa Maria. Hanson Equipment Co.
Stockton. Delta Tractor Co.
Stratford. Orton's Equipment Co., Inc.
Tranquility. Allied Equipment Co.

COLORADO
Denver. H. W. Moore Equipment Co.
Durango. H. W. Moore Equipment Co.
Grand Junction. H. W. Moore Equipment Co.

IDAHO
Boise. Intermountain Equipment Co.
Idaho Falls. Lang Construction Equipment Co.

MONTANA
Billings. Industrial Equipment Co.
Black Eagle. Power Equipment Co.
Kalispell. Treasure State Equipment Co.
Missoula. Treasure State Equipment Co.

NEVADA
Las Vegas. Clark County Wholesale Merc. Co.
Reno. Sanford Tractor Co.

NEW MEXICO
Albuquerque. J. D. Coggins
Farmington. J. D. Coggins

OREGON
Central Point. Howard-Cooper Corp.
Coquille. Howard-Cooper Corp.
Eugene. Howard-Cooper Corp.
Hermiston. Pendleton Grain Growers, Inc.
Pendleton. Pendleton Grain Growers, Inc.
Portland. Howard-Cooper Corp.
Roseburg. Howard-Cooper Corp.

UTAH
Salt Lake City. Lang Construction Equip. Co.

WASHINGTON
Seattle. The Carrington Co.
Howard-Cooper Corp.
Spokane. Modern Machinery Co.

WYOMING
Casper. Kereml Tractor & Equipment Co.
Cheyenne. Kereml Tractor & Equipment Co.

HUBER-WARCO CO.
202 N. Greenwood Street
Marion, Ohio

PRODUCTS: Road Rollers; Motor Graders; Maintainers.

District Representative

CALIFORNIA
Pleasant Hill—436 Minton Court. Jack McCaffrey

Distributors

ALASKA
Anchorage. Craig Taylor Equipment & Supply Co.

ARIZONA
Phoenix. Equipment Sales Co.

CALIFORNIA
Fresno. Contractors Equipment & Supply Co.
Los Angeles. Santa Fe Equipment Co., Inc.
Redding. Paul Droscher Sales
Sacramento. Western Traction Co.
San Bernardino. Santa Fe Equipment Co., Inc.
San Francisco. Western Traction Co.

COLORADO
Denver. Faris-Moritz Equipment Co.

IDAHO
Boise. The Sawtooth Company

MONTANA
Billings. Caird Engineering Works
Helena. Caird Engineering Works

NEVADA
Reno. General Equipment Co.

NEW MEXICO
Albuquerque. Construction Machinery Co.

OREGON
Portland. Feenaughty Machinery Co.

UTAH
Salt Lake City. Archer Tractor & Machinery Co.

WASHINGTON
Seattle. Caldwell Machinery Co., Inc.
Spokane. Ferris Equipment Co.

HUGHES-KEENAN DIVISION

U. S. Air Conditioning Corp.
Delaware, Ohio

PRODUCTS: Mobile Cranes.

Distributors

ARIZONA
(Los Angeles). James P. Kinney Co.

CALIFORNIA
Los Angeles. James P. Kinney Co.
Casey-Metcalf Machinery Co.

COLORADO
Denver. Joe Coursey Equipment Co., Inc.

NEVADA
(Los Angeles). James P. Kinney Co.
(Salt Lake). Foulger Equipment Co.

NEW MEXICO
Albuquerque. Albuquerque Materials Handling, Inc.
(Los Angeles). James P. Kinney Co.

OREGON
Portland. Robert Dodd Co.

UTAH
Salt Lake City. Foulger Equipment Co.

WASHINGTON
Seattle. Preston Faller Co.

WYOMING
(Denver). Joe Coursey Equipment Co.
(Salt Lake). Foulger Equipment Co.

HYDRAULIC TOOL & EQUIPMENT CO., INC.

10825 Sessler Street
South Gate, California

PRODUCTS: Dozers; Scrapers; Scarifier Bars; Ditchers;
Hydraulic Tractor Lifts.

Distributors

CALIFORNIA
Los Angeles. Tractor Equipment Distributors, Inc.
Richmond. Pacific Tractor Co.

COLORADO
Denver. Universal Tractor Co.
Western Machinery Co.

IDAHO
(Salt Lake). Intermountain Ford Tractor Sales Co.
Western Machinery Co.

MONTANA
Great Falls. Ferris-Killion Co.

OREGON
Portland. Mitchell, Lewis & Staver

(Continued in next column)

Hydraulic Tool & Eqt. Co., Inc. (Cont'd)

UTAH
Salt Lake City. Intermountain Ford Tractor Sales Co.
Western Machinery Co.

WASHINGTON
(Portland). Mitchell, Lewis & Stover

WYOMING
(Denver). Universal Tractor Co.

HYSTER COMPANY

2951 N.E. Clackamas Street
Portland 8, Oregon

PRODUCTS: Industrial Truck Division—Lift Trucks;
Straddle Carriers; Mobile Yard Cranes;
Industrial Tractors; Platform Carriers.
Tractor Equipment Division—Tractor
Mounted Winches and Hoists; Excavator-
Cranes; Hydraulic Backhoes; Logging
Arches; Compaction Rollers.

Regional Manager—Industrial Truck Division

CALIFORNIA
San Bruno—3421 Crestmoor Drive. Donald R. Shaffer

Regional Representative—Industrial Truck Division

CALIFORNIA
Los Angeles—7008 La Presa Drive. Victor B. Hunt

Tractor Equipment District Representatives

CALIFORNIA
Oakland—600 16th St. Art Alexander

OREGON
Portland—2902 NE Clackamas St. Graydon Broms
Dale Viar

Dealers—Industrial Truck Division

ALASKA
(Seattle). Northern Commercial Co.

ARIZONA
Phoenix. Equipment Sales Co.

CALIFORNIA
Los Angeles. Hyster Company
Branch: San Diego
San Francisco. Hyster Company
Branches: Eureka, Sacramento

COLORADO
Denver. King & East Machinery Corp.

IDAHO
Boise. Hyster Sales Co.
Idaho Falls. Arnold Machinery Co., Inc.
(Spokane). Hyster Company

MONTANA
(Spokane). Hyster Company

NEVADA
(Los Angeles). Hyster Company
(San Francisco). Hyster Company
(Salt Lake City). Arnold Machinery Co., Inc.

NEW MEXICO
Albuquerque. Equipment Sales Co.

OREGON
Portland. Hyster Sales Co.

UTAH
Salt Lake City. Arnold Machinery Co., Inc.

WASHINGTON
Seattle. Hyster Company
Branch: Spokane
(Portland). Hyster Sales Co.

WYOMING
(Denver). King & East Machinery Corp.
(Salt Lake City). Arnold Machinery Co., Inc.
(Spokane). Hyster Company

Dealers—Tractor Equipment Division

ALASKA
(Seattle). Northern Commercial Co.
Branches: Anchorage, Fairbanks, Juneau, Ketchikan,
Nome, Whitehorse

ARIZONA
Phoenix. Arizona Machinery Co.
Branches: Casa Grande, Coolidge, Flagstaff, Mesa
Tucson, Buckeye
Yuma. Braden Machinery Co.
Branch: Wellton

CALIFORNIA
Blythe. Honnen Machinery Co.
Colusa. I. G. Zumwalt Co.
Branch: Willows
El Centro. Faure Tractor & Equipment Co.
Branch: Brawley
Eureka. Brizard-Matthews Machinery Co.
Branches: Crescent City, Arcata

(Continued on next page)

**C. I. T. provides experienced financing for
Distributors and Contractors**

Hyster Company (Cont'd)

Fresno.....Budd & Quinn
 Branches:.....Firebaugh, Madera, Reedley
 Hanford.....Davies Machinery Co.
 Branches:.....Bakersfield, Corcoran, Delano, Wasco
 Los Angeles.....Shepherd Machinery Co.
 Branches:.....Lancaster, Santa Ana
 Marysville.....Marsysville Tractor & Equipment Co.
 Branches:.....Robbins, Roseville
 Modesto.....Valley Tractor Co.
 Branches:.....Los Banos, Merced
 Napa.....Berglund Tractor & Equipment Co.
 Branches:.....Santa Rosa, Willits
 Oxnard.....Wallace Machinery Co.
 Branches:.....Paso Robles, Santa Maria
 Riverside.....Johnson Tractor Co.
 Branches:.....Coachella, Ontario
 Sacramento.....Weaver Tractor Co.
 Branches:.....Dixon, Walnut Grove, Woodland
 Salinas.....Pringle Tractor Co.
 Branches:.....King City, Watsonville
 San Diego.....Hawthorne Machinery Co.
 Branch:.....Escondido
 San Leandro.....Peterson Tractor Co.
 Branches:.....Chico, Redding
 Santa Clara.....Ditz Bros.
 Branch:.....Hollister
 Stockton.....Holt Bros.
 Branches:.....Lodi, Tracy
 Visalia.....Quinn Company
 Branch:.....Porterville

IDAHO
 Boise.....Western Equipment Co.
 Branches: Burley, Idaho Falls, Pocatello, Twin Falls
 Lewiston.....Nez Perce Tractor & Equipment Co.

MONTANA
 Billings.....Nash-Davis Machinery Co.
 Branches:.....Bozeman, Greycliff (Wyo.)
 Great Falls.....Central Machinery Co.
 Branches:.....Havre, Lewistown
 Missoula.....Westmont Tractor Co.
 Branch:.....Kalispell
 Sidney.....Tractor & Equipment Co.
 Branches:.....Glasgow, Miles City

NEVADA
 Las Vegas.....Cashman Equipment Co.
 Reno.....Crooks Bros. Tractor Co.
 Branch:.....Elko

NEW MEXICO
 Albuquerque.....R. L. Harrison Co., Inc.

OREGON
 Eugene.....Papé Bros., Inc.
 Branches:.....Coquille, Roseburg
 Klamath Falls.....Crater Lake Machinery Co.
 Branches:.....Medford, Redmond
 La Grande.....Inland Machinery Co.
 Branches:.....Enterprise, John Day
 Ontario.....Western Equipment Co.
 Pendleton.....Empire Machinery Co.
 Branches:.....Arlington, Athena, Heppner, Moro,
 The Dalles

Portland.....Halton Tractor Co.
 Branches:.....Astoria, Salem

UTAH
 Salt Lake City.....Wheeler Machinery Co.

WASHINGTON
 Longview.....Halton Tractor Co.
 Seattle.....N C Machinery Co.
 Branches:.....Mount Vernon, Port Angeles, Tacoma,
 Northern Commercial Co.
 Spokane.....Byrne Machinery Co.
 Branch:.....Ritzville
 Walla Walla.....Stone Machinery Co.
 Branch:.....Dayton
 Wenatchee.....Columbia Tractor Co. of Wenatchee
 Branches:.....Ehlatla, Okanogan
 Yakima.....Webb Tractor & Equipment Co.
 Branches:.....Ellensburg, Pasco, Toppenish

WYOMING
 Cheyenne.....Wortham Machinery Co.
 Branches:.....Casper, Newcastle, Riverton, Rock
 Springs, Sheridan
 Greybull.....Nash-Davis Machinery Co.

HYSTER COMPANY
Martin Trailer Division
816 North East Street
Kewanee, Illinois

PRODUCTS: Heavy Duty Equipment Trailers.
 Your CATERPILLAR Dealer is your MARTIN Dealer.

HY-WAY MACHINERY, INC.
3697 Oakwood Avenue
Youngstown 9, Ohio

PRODUCTS: Hot Oil Heaters; HeatTanks; HoTanks;
 Bunker Boosters; Lutes.

Representative

CALIFORNIA
 Berkeley—1690 Tacoma Ave.....M. O. Davis

IDEAL REEL CO.
1424 Madison Street
Paducah, Kentucky

PRODUCTS: Tire Wire Reels for dispensing tie wire
 wherever wire is applied and tied — re-
 inforcing steel bars, metal lath, air duct
 covering, welded wire fabric, pipe and
 boiler insulation, industrial and commercial
 plant maintenance, etc.

Distributors

ARIZONA
 Phoenix.....The Colorado Fuel & Iron Corp.
 CALIFORNIA
 Chico.....Interstate Steel Co.
 Fontana.....Fontana Wholesale Supply Co.
 Vernon.....Meehleis Steel Co.

COLORADO
 Denver.....The Colorado Fuel & Iron Corp.
 K. C. Construction Supply Co.
 Grand Junction.....Salt Lake Hardware Co.

IDAHO
 Boise.....Allen Steel Supply Co.
 Salt Lake Hardware Co.
 Pocatello.....Bannock Steel Co.

MONTANA
 Billings.....Madden Construction Supply Co.
 Great Falls.....Madden Construction Supply Co.

NEW MEXICO
 Albuquerque.....C. E. Mitcham Co.

OREGON
 Eugene.....A & W Sales
 Medford.....Moore Steel Service, Inc.

UTAH
 Salt Lake City.....The Colorado Fuel & Iron Corp.
 Educated Supplies, Inc.
 Salt Lake Hardware Co.

WASHINGTON
 Seattle.....Seattle Hardware Co.
 Van Daal Distributors, Inc.

INGERSOLL-RAND CO.
11 Broadway
New York 4, New York

PRODUCTS: Backfill Tampers; Blowers; Clay Diggers;
 Clay Spades; Compressors; Concrete Break-
 ers; Demolition Tools; Drills; Engines;
 Diesel; Engines, Gas; Grinders; Hoists;
 Pavement Breakers; Pumps; Rammers;
 Rock Bit Grinders; Rock Bits; Rock Drills;
 Saws; Spaders; Sump Pumps; Tampers;
 Vibrators; Wagon Drills.

Western Branch Offices

CALIFORNIA
 Los Angeles—5533 E. Olympic Blvd.....W. J. Heinz
 San Francisco—350 Brannan St.....W. C. Collier

COLORADO
 Denver—1641 Blake St.....A. A. Holland

IDAHO
 (Salt Lake City)—144 SW Temple.....R. W. Lawson

MONTANA
 Butte—845 S. Montana.....R. L. Olund

OREGON
 Portland—Broadway Bldg.....J. A. Anderson

UTAH
 Salt Lake City—144 SW Temple.....R. W. Lawson

WASHINGTON
 Seattle—526 1st Ave So.....J. A. Anderson

Distributors

ARIZONA
 Phoenix.....Road Machinery Co.
 Prescott.....Arizona General Supply Co.

CALIFORNIA
 Bakersfield.....Brown-Bevis Industrial Equipment Co.
 Fresno.....Allied Equipment Co.
 Los Angeles.....Brown-Bevis Industrial Equipment Co.
 N. Sacramento.....Industrial Tractor Sales
 Oakland.....Bay Cities Equipment Co.
 Redding.....Shasta Truck & Equipment Sales
 Riverside.....Brown-Bevis Industrial Equipment Co.
 San Diego.....Southern Equipment & Supply Co.
 Santa Ana.....Blystone Equipment Co.
 Stockton.....Delta Tractor Co.

COLORADO
 Denver.....Colorado Builders Supply Co.

IDAHO
 Boise.....Intermountain Equipment Co.
 Pocatello.....Intermountain Equipment Co.

MONTANA
 Great Falls.....Seitz Machinery Co.
 Kalispell.....Mountain Tractor Co.
 Missoula.....Mountain Tractor Co.

(Continued in next column)

Ingersoll-Rand Co. (Cont'd)

NEVADA
 Las Vegas.....Blystone Equipment Co.
 Reno.....Sierra Machinery Co.

NEW MEXICO
 Albuquerque.....Contractors Equipment & Supply Co.

OREGON
 Eugene.....Loggers & Contractors Machinery Co.
 Portland.....Loggers & Contractors Machinery Co.

UTAH
 Salt Lake City.....Cate Equipment Co.

WASHINGTON
 Seattle.....Andrews Mch. Co. of Washington, Inc.
 Pacific Hoist & Derrick Co.
 The Carrington Co.
 Spokane.....Intermountain Equipment Co.

WYOMING
 Casper.....Colorado Builders Supply Co.

INLAND STEEL PRODUCTS CO.
4101 West Burnham Street
Milwaukee 1, Wisconsin

PRODUCTS: MILCOR RIBFORM—high strength steel
 base for short-span concrete slabs.

Factory Branch

CALIFORNIA
 Los Angeles—4807 E. 49th St.....Paul C. Dunn

INSLEY MANUFACTURING CORP.
General Offices—P.O. Box 167
Indianapolis 6, Indiana
West Coast Division
P.O. Terminal Box 3129
Los Angeles 54, California

PRODUCTS: Power Shovels; Hoes; Cranes; Clamshell
 Cranes and Draglines; Rubber and Crawler
 Mounted; Gasoline, Diesel and Electric
 Power; Concrete Buckets, Carts, Hoppers;
 Rubber Mounted Crane Carriers.

Subsidiary

CALIFORNIA
 Los Angeles—The Maxl Corp.....J. Ray Elliott
 PRODUCTS: Rubber Mounted Crane Carrier (truck
 and self-propelled).

Factory Sales Representative

CALIFORNIA
 Los Angeles—3278 Wilshire.....Lee R. Smith
 WASHINGTON
 Olympia—P.O. Box 895.....J. L. Lamley

Distributors

ARIZONA
 Phoenix.....Shriver Machinery Co.

CALIFORNIA
 Eureka.....Trinity Tractor Co.
 Fresno.....Contractors Equipment & Supply Co.
 Los Angeles.....Essick Machinery Co.
 Redding.....Sullivan & Crowe Equipment Co.
 Sacramento.....Western Traction Co.
 San Francisco.....Western Traction Co.
 Santa Ana.....Essick Machinery Co. (Branch)
 Stockton.....Delta Tractor Co.

COLORADO
 Denver.....Macdonald Equipment Co.
 Grand Junction.....S & M Supply Co., Inc.

MONTANA
 Helena.....Caird Engineering Works

NEW MEXICO
 (El Paso).....Equipment Supply Co.

OREGON
 Portland.....Wood Tractor Co.

UTAH
 Salt Lake City.....Lund Machinery Co.

WASHINGTON
 Seattle.....Washington Machinery Co.
 Western Tractor & Egt. of Alaska
 Branches:.....Anchorage, Fairbanks

INTERNATIONAL HARVESTER CO.
Construction Equipment Division
North Avenue at Manheim Road
P.O. Box 270
Melrose Park, Illinois

PRODUCTS: Crawler Tractors; Bulldozers; Wheel Trac-
 tors; Rubber Tired High Speed Earth-
 movers with Scrapers and Wagons; Off-
 Highway Heavy Duty Trucks; Engines
 (Diesel and Gasoline).

(Continued on next page)

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
 Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
 Equitable Building, Portland

EASTERN CONSTRUCTION EQUIPMENT DIRECTORY

MANUFACTURERS' SECTION

International Harvester Co. (Cont'd)

Territory Managers

ALABAMA
Birmingham—734 Lawrence St. H. J. Bihler
Birmingham—2858 Cypress St. E. E. Westerback
ORLANDO
Orlando—4233 E. 46th Ave. W. H. Godfrey
NEW MEXICO
Headquarters Texas
Marillo—714 East 10th St. A. C. Lange
PORTLAND
Portland—2001 Harvester Drive. A. H. Mason
WASHINGTON
Spokane—715 E. Sprague. H. C. Barlow

Distributors

ALABAMA
Anchorage. The Carrington Co.
Fairbanks. The Carrington Co.
ARIZONA
Phoenix. Copper State Trac. Co.
Tucson. F. Ronstadt Hardware Co.
Yuma. Caldwell Equipment Co.
CALIFORNIA
Bakersfield. Kern County Equipment Co.
Bixby. Solano Tractor & Equipment Co.
Centerville. Purdy Holmquist Co.
Eureka. Howard-Cooper Corp. of Calif.
Five Points. Allied Equipment Co.
Fresno. Allied Equipment Co.
Long Beach. Engine Sales & Service Co.
Los Angeles. Brown-Bevis Industrial Equipment Co.
Modesto. Stanislaus Implement & Hdw. Co.
Oakland. Bay Cities Equipment, Inc.
Oakland. Maulhardt Equipment Co.
Redding. Howard-Cooper Corp. of Calif.
Redding. Allied Equipment Co.
Rio Vista. Gordon-Hanson Co., Ltd.
Riverside. Brown-Bevis Ind. Eq. Co. of Riverside
Sacramento. Sacramento Valley Tractor Co.
Salinas. Farmers Mercantile Co.
San Diego. Southern Equipment & Supply Co.
San Jose. Bay Cities Equipment, Inc.
Santa Maria. Hanson Equipment Co.
Santa Rosa. Stevenson Equipment Co., Inc.
Stockton. Delta Tractor Co.
Tratford. Orton's Equipment Co.
Tranquillity. Allied Equipment Co.
Watsonville. Farmers Mercantile Co.

ORLANDO
Orlando. H. W. Moore Equipment Co.
Orlando. H. W. Moore Equipment Co.
Grand Junction. H. W. Moore Equipment Co.
IDAHO
Idaho Falls. Lang Construction Equip. Co.
MONTANA
Billings. Industrial Equipment Co.
Great Falls. Power Equipment Co.
Missoula. Treasure State Equip. Co.
Missoula. Treasure State Equip. Co.
NADA
Las Vegas. Clark County Wholesale Mercantile Co.
Reno. Sanford Tractor & Equipment Co.
NEW MEXICO
Albuquerque. J. D. Coggins Co.
Farmington. J. D. Coggins Co.
PORTLAND
Central Point. Howard Cooper Corporation
Oakville. Howard Cooper Corporation
Pendleton. Howard Cooper Corporation
Pendleton. Pendleton Grain Growers
Portland. Howard Cooper Corporation
Roseburg. Howard Cooper Corporation
SALT LAKE CITY
Salt Lake City. Lang Construction Equip. Co.
WASHINGTON
Seattle. The Carrington Co.
Spokane. Howard Cooper Corporation
WYOMING
Spokane. Modern Machinery Co.

WYOMING
Casper. Keremi Tractor & Equipment Co.
Cheyenne. Keremi Tractor & Equipment Co.

INTERNATIONAL HARVESTER CO.

MOTOR TRUCK DIVISION

180 N. Michigan Avenue

Chicago 1, Illinois

PRODUCTS: Motor Trucks.

Western Region Manager

ALABAMA
San Francisco—610 Brannan St. L. A. Hanson
ORLANDO, DENVER (DISTRICT OFFICE)
280 Brighton Blvd. W. H. Davis, Mgr.
Motor Truck Branches:
Delta—701 Eaton St.
Albuquerque, N. Mex.—1924 Second St., NW

(Continued in next column)

International Harvester Co. (Cont'd)

CALIFORNIA, LOS ANGELES (DISTRICT OFFICE)

4501 S. Alameda St. G. B. Healy, Mgr.
Motor Truck Branches:
Culver City—5777 W. Washington Blvd.
Glendale—6444 San Fernando Rd.
Long Beach—537 W. Anaheim St.
Los Angeles—4501 S. Alameda St.
Montebello—812 W. Washington Blvd.
Norwalk—11341 E. Firestone Blvd.
Rosemead—4500 N. Rosemead Blvd.
San Diego—1990 S. Main St.
Santa Ana—412 E. 5th St.
Phoenix, Ariz.—317 S. Ninth Ave.

OAKLAND (DISTRICT OFFICE)

2855 Cypress St., M. T. Sprague, Mgr.
Motor Truck Branches:
Fresno—2304 Monterey St.
Sacramento—550 N. 16th St.
San Francisco—610 Brannan St.
San Jose—1505 N. Fourth St.
Stockton—1747 E. Charter Way

MONTANA, BILLINGS (DISTRICT OFFICE)

20 S. Broadway. M. W. Jones, Mgr.
Motor Truck Branches:
Billings—917 First Ave., No.
Great Falls—201 Second Ave., So.

OREGON, PORTLAND (DISTRICT OFFICE)

635 N.E. Second Ave. G. S. Stewart, Mgr.
Motor Truck Branches:
Medford—2232 Biddle Road
Seattle, Wash.—1251 First Ave., So.
Tacoma, Wash.—102 Puyallup Ave.

UTAH, SALT LAKE CITY (DISTRICT OFFICE)

435 W. Fourth South St. R. R. McDonald, Mgr.
Motor Truck Branches:
Salt Lake City—409 W. Fourth South St.
Boise, Ida.—4000 Fairview

WASHINGTON, SPOKANE (DISTRICT OFFICE)

715 E. Sprague Avenue. M. H. Roth, Mgr.
Motor Truck Branches:
Walla Walla—Third and Sumach
Lewiston, Ida.—1701 Main St.

THE INTERNATIONAL VIBRATION CO.

16702 Waterloo Road

Cleveland 10, Ohio

PRODUCTS: Multiple Shoe Vibrating Compactors.

Distributors

ALABAMA
Anchorage. Bashaw Equipment Co.
Fairbanks. Bashaw Equipment Co.
CALIFORNIA
Oakland. Sun Equipment Co.
COLORADO
Denver. King & East Mch. Corp.
MONTANA
Missoula. Westmont Tractor Co.
UTAH
Salt Lake City. Lang Construction Equipment Co.
WASHINGTON
Seattle. Air-Mac, Inc.
Spokane. Air-Mac, Inc.

INTERSTATE CONTRACTORS EQUIPMENT CO.

2011 Glenarm Place, Room 209

Denver 5, Colorado

PRODUCTS: Manufacturing Distributors for Special Truck Bodies; Diggers, Trenchers, Ditchers, Augers, Ventilating Heaters, Blowers, Generators (gasoline powered), Trailers and Water Well Drilling Equipment.

Distributors

COLORADO
Denver. Truck Equipment Co.
UTAH
Salt Lake City. W. H. Pingree Co.
WYOMING
Casper. Electric Service Co.

IOWA MANUFACTURING CO.

916-16th Street N. E.

Cedar Rapids, Iowa

PRODUCTS: Rock, Gravel and Asphalt Plants; Soil Compaction Units; Coal Machinery; Washing Plants; Conveyors; Screens; Bins; Crushers; Hammermills; Impact Breakers; Feeders and Stationary Rock and Gravel Plants; Dryers; Dust Collectors; Bituminous Paver.

(Continued in next column)

Iowa Manufacturing Co. (Cont'd)

District Representatives

MONTANA
Billings—2722 Broadwater. Carl H. Anderson
OREGON
Oswego—1518 Cedar St. Len Dvorak
(Calif., Ore., Utah, Wash.)

Distributors

ALASKA
(Seattle) Sahlberg Equipment, Inc.
ARIZONA
Phoenix. Arizona Cedar Rapids Co.
CALIFORNIA
Bakersfield. Brown-Bevis Industrial Equipment Co.
Los Angeles. Brown-Bevis Industrial Equipment Co.
Oakland. Bay Cities Equipment, Inc.
San Diego. Brown-Bevis Industrial Equipment Co.
San Jose. Bay Cities Equipment, Inc.
(Reno) Sierra Machinery Co., Inc.
COLORADO
Denver. H. W. Moore Equipment Co.
Durango. H. W. Moore Equipment Co.
Grand Junction. H. W. Moore Equipment Co.
IDAHO
Boise. Intermountain Equipment Co.
Pocatello. Intermountain Equipment Co.
MONTANA
Missoula. Miller Machinery Co.
Branches: Billings, Great Falls
NEVADA
Reno. Sierra Machinery Co., Inc.
NEW MEXICO
Albuquerque. R. L. Harrison Co., Inc.
OREGON
Portland. Balzer Machinery Co.
(Boise) Intermountain Equipment Co.
UTAH
Salt Lake City. Kimball Equipment Co.
WASHINGTON
Seattle. Sahlberg Equipment, Inc.
Spokane. Intermountain Equipment Co.
(Portland) Balzer Machinery Co.
WYOMING
Casper. Wortham Machinery Co.
Cheyenne. Wortham Machinery Co.
Rock Springs. Wortham Machinery Co.
Sheridan. Wortham Machinery Co.
(Salt Lake City) Kimball Equipment Co.

JACKSON VIBRATORS, INC.

Jackson Road

Ludington, Michigan

PRODUCTS: Tractor-mounted Vibratory Soil Compactors (multiple type for paving and large areas); Manually Operated Soil Compactors; Vibrators (all types) for concrete, paving, moving materials; Portable Gas-Electric Power Plants.

Distributors

ALASKA
(Seattle) A. H. Cox & Co.
ARIZONA
Phoenix. Western Machinery Co.
CALIFORNIA
Los Angeles. Smith-Booth-Usher Co.
San Francisco. Edward R. Bacon Co.
COLORADO
Denver. Western Machinery Co.
IDAHO
Idaho Falls. Western Machinery Co.
MONTANA
Billings. Hall-Perry Machinery Co.
Butte. Hall-Perry Machinery Co.
Great Falls. Hall-Perry Machinery Co.
NEW MEXICO
Albuquerque. Lively Equipment Co.
OREGON
Portland. Loggers & Contractors Mch. Co.
UTAH
Salt Lake City. Western Machinery Co.
WASHINGTON
Seattle. A. H. Cox & Co.
Spokane. Western Machinery Co.

THE JAEGER MACHINERY CO.

110 Dublin Avenue

Columbus 16, Ohio

PRODUCTS: Pumps; Aggregate Spreaders; Concrete Mixers; Truck Mixers; Plaster and Mortar Mixers; Concrete Spreaders and Finishers; Air Compressors; Towers and Hoists.

(Continued on next page)

C. I. T.'s Pay-As-You-Depreciate Plan permits payments out of depreciation

The Jaeger Machinery Co. (Cont'd)**Factory Representative**

CALIFORNIA
 Sherman Oaks—
 5107 Mammoth Ave. Herbert F. Twaits
WASHINGTON
 Seattle—231 SW 191st St. John W. Scott

Distributors

ALASKA
 Anchorage. Yukon Equipment, Inc.
 Fairbanks. Yukon Equipment Inc.
ARIZONA
 Phoenix. Western Machinery Co.
CALIFORNIA
 Los Angeles. Smith-Booth-Usher Co.
 San Francisco. Edward R. Bacon Co.
COLORADO
 Denver. Western Machinery Co.
IDAHO
 Boise. The Sawtooth Co.
 Idaho Falls. Western Machinery Co.
MONTANA
 Billings. Nash-Davis Machinery Co.
 Butte. Butte Machinery Co.
 Great Falls. Central Machinery Co.
 Sidney. Tractor & Equipment Co.
NEVADA
 Las Vegas. Cashman Equipment Co.
NEW MEXICO
 Albuquerque. J. D. Coggins Co.
OREGON
 Portland. Nelson Equipment Co.
UTAH
 Salt Lake City. Western Machinery Co.
WASHINGTON
 Seattle. A. H. Cox & Co.
 Yukon Equipment Co.
 Spokane. Western Machinery Co.
WYOMING
 Cheyenne. Wortham Machinery Co.

JAY COMPANY

Div. of J. Leukart Machine Co., Inc.
 2222 S. 3rd Street
 Columbus 7, Ohio

PRODUCTS: J-12 and J-36 Tampers.

Factory Representative
(Cal-Western Equipment, Inc.)

CALIFORNIA
 LaVerne—2073 Peyton Rd. Herbert DuToit

Distributors

ALASKA
 Anchorage. Craig Taylor Equipment
ARIZONA
 Phoenix. O. S. Stapley Co.
CALIFORNIA
 Berkeley. Central Equipment Co.
 Los Angeles. Garlinghouse, Fremont & Co.
 Sacramento. Central Equipment Co.
 San Diego. Construction Machinery Co.
 San Francisco. Rix Co.
 Stockton. Western Traction Co.
 Santa Ana. Waco Scaffolding Co.
COLORADO
 Denver. Orange Construction Ept. Co.
 Faris-Moritz Ept. Co.
 Universal Company
IDAHO
 Boise. The Sawtooth Co.
 Twin Falls. The Sawtooth Co.
MONTANA
 Billings. Hall-Perry Machinery Co.
 Butte. Hall-Perry Machinery Co.
 Great Falls. Hall-Perry Machinery Co.
 Missoula. Hall-Perry Machinery Co.
NEVADA
 Las Vegas. Inland Supply Corp.
 Reno. Sierra Industrial Co.
NEW MEXICO
 Albuquerque. N. C. Ribble Co.
UTAH
 Salt Lake City. Foulger Equipment Co.
WASHINGTON
 Seattle. Star Machinery Co.
 Spokane. Ferris Equipment Co.
WYOMING
 Casper. Wortham Machinery Co.
 Cheyenne. Wortham Machinery Co.
 Rock Springs. Wortham Machinery Co.
 Sheridan. Wortham Machinery Co.

JETCO, INC.

1100 Westminster Avenue
Alhambra, California

PRODUCTS: Trencher Parts; Jiffy Teeth, Pockets, Buckets, Bucket Backs, Rims, Frames, Conveyors, Sprockets, Shafts, Track Rollers, Lower and Upper Track Assemblies and miscellaneous wear parts.

Distributors

ARIZONA
 Phoenix. Michels Machinery Co.
CALIFORNIA
 Bakersfield. Jiffy Trencher Parts
 Sacramento. Jiffy Trencher Parts
 San Francisco. Standard Machinery Co.
COLORADO
 Denver. Power Equipment Co.
MONTANA
 Helena. Montana Powder & Equipment Co.
UTAH
 Salt Lake City. Atlas Equipment Co.

THE C. S. JOHNSON CO.

P.O. Box 71
Champaign, Illinois

PRODUCTS: Concrete Batching and Cement Handling Equipment; Clamshell and Concrete Buckets.

West Coast Branch Office

CALIFORNIA
 Stockton—Manager. J. S. Shoemaker

Distributors

ALASKA
 Anchorage. Yukon Equipment Co.
ARIZONA
 Phoenix. Cook Bros. Equipment Sales
CALIFORNIA
 Los Angeles. Cook Bros. Construction Mch. Co.
 Oakland. Cook Bros. Truck & Ept. Co.
COLORADO
 Denver. Jacobs-Kerr & Co.
IDAHO
 Boise. Engineering Sales & Service Co.
MONTANA
 Billings. Western Construction Equipment Co.
 Great Falls. Western Construction Equipment Co.
NEW MEXICO
 Albuquerque. Harry Cornelius Co.
OREGON
 Portland. Cramer Machinery Co.
UTAH
 Tremonton. Harris Truck & Equipment Co.
WASHINGTON
 Seattle. A. H. Cox & Co.
 Spokane. Andrews Equipment Service, Inc.
WYOMING
 Cheyenne. Wilson Equipment & Supply Co.

JONES & LAUGHLIN STEEL CORP.

3 Gateway Center
Pittsburgh, Pennsylvania

PRODUCTS: Steel and Steel Products; Wire Rope; Tubular Products; Junior Beams and Junior Channels.

District Sales Managers

CALIFORNIA
 Los Angeles—District Sales Manager. R. G. Shearer
 San Francisco—District Sales Manager. J. H. Tice
COLORADO
 Denver—Resident Manager of Sales. E. A. Toothaker

EARLE M. JORGENSEN CO.

10650 S. Alameda Street
Los Angeles 54, California

PRODUCTS: "Goldedge" Blades (Cutting Edges for Earth-Moving Equipment).

District Managers

CALIFORNIA
 Oakland—1657 W. Grand Ave. P. C. Childs
 San Francisco—700 Pennsylvania Ave. P. C. Childs

JOY MANUFACTURING CO.

H. W. Oliver Building
Pittsburgh 22, Pennsylvania

PRODUCTS: Rock Drills; Rock Bits; Paving Breakers; Tampers; Spaders; Sheeting Drivers; Hoists; Portable Air Compressors; Stationary Air Compressors; Drill Jibs; Self-Propelled Drill Carriers; Wagon Drills.

District Sales Offices

CALIFORNIA
 San Francisco—1155 Harrison St. L. C. Rhodes
UTAH
 Salt Lake City—998 S. 6th West St. W. R. Swiler

Distributors

ALASKA
 (Seattle) Northern Commercial Co.
ARIZONA
 Phoenix. Superior Equipment, Inc.
 Tucson. Superior Equipment, Inc.
CALIFORNIA
 El Monte. Warnock-Bancroft Equipment Co.
 San Francisco. Coast Equipment Co.
COLORADO
 Denver. Rental Machinery Co.
IDAHO
 Boise. Carl R. Burt Equipment Co.
MONTANA
 Billings. Hall-Perry Machinery Co.
 Butte. Hall-Perry Machinery Co.
 Great Falls. Hall-Perry Machinery Co.
 Missoula. Hall-Perry Machinery Co.
NEVADA
 Reno. Grald Equipment Co.
NEW MEXICO
 Albuquerque. Harry Cornelius Co.
OREGON
 Portland. Clyde Equipment Co.
UTAH
 Salt Lake City. Foulger Equipment Co.
WASHINGTON
 Seattle. Clyde Equipment Co.
 Northern Commercial Co.
 American Machine Co.
 Spokane. American Machine Co.

KAISER STEEL CORP.

1924 Broadway
Oakland 12, California

PRODUCTS: Steel and Steel Products; Rolled and Fabricated Structural Steel; Large and Medium Diameter Pipe; Steel Cylinder Pipe and Pre-cast Reinforced Concrete Pipe; Feeder Lines, Synphons and Penstocks; Steel Tanks and Pressure Vessels; Specialized Machinery and Equipment.

Fabricating Division Plants

CALIFORNIA
 Fontana—P. O. Box 95. Homer Barber
 Montebello—7501 Telegraph Rd. J. J. Carlson
 Napa. E. L. Isley

District Offices

ARIZONA
 Phoenix—Sales Representative. James Wiggs
CALIFORNIA
 Los Angeles—So. District Sales Mgr. R. R. Hogan
 Oakland—General Sales Mgr. C. L. Emerson
COLORADO
 Denver—Sales Representative. Paul Kluth
OREGON
 Portland—Sales Representative. K. Hessemer
WASHINGTON
 Seattle—Mgr., NW Dist. Sales. H. H. Baym

KATO ENGINEERING CO.

1415 First Avenue
Mankato, Minnesota

PRODUCTS: AC Generators; Motor-Generator Set; Synchronous Motors; Rotary Converter (motor-generators to change frequency phase, voltage, AC to DC, or DC to AC; Brushless 50, 60, and 400-Cycle Generators).

Western Representative

CALIFORNIA
 Pasadena—3151 E. Colorado St. R. T. Puellich

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
Equitable Building, Portland

EASTERN CONSTRUCTION EQUIPMENT DIRECTORY

MANUFACTURERS' SECTION

WIESNER-RAPP MACHINE DIVISION

The Wiesner-Rapp Co., Inc.

285 Hinman Avenue
Buffalo 23, New York

PRODUCTS: Concrete Floor Finishing Machinery including Power Trowels and Compactors; Power Tampers; Portable Space Heaters.

Distributors

ALASKA Anchorage..... Bashaw Equipment Co.
 ARIZONA Phoenix..... W. J. Burke & Co.
 LOS ANGELES..... W. J. Burke & Co.
 SAN DIEGO..... W. J. Burke & Co.
 SAN FRANCISCO..... W. J. Burke & Co.
 COLORADO Denver..... Contractors Equipment & Supply Co.
 IDAHO Salt Lake City..... Contractors Equipment & Supply Co.
 MONTANA Great Falls..... Normont Equipment Co.
 NEW MEXICO Albuquerque..... W. J. Burke & Co.
 OREGON Portland..... W. J. Burke & Co.
 UTAH Salt Lake City..... Contractors Equipment & Supply Co.
 WASHINGTON Seattle..... W. J. Burke & Co.
 SPOKANE..... Ferris Equipment Co.
 Modern Machinery Co.
 WYOMING Cheyenne..... Wilson Equipment & Supply Co.

KENWORTH MOTOR TRUCK CO.

8801 East Marginal Way
Seattle, Washington

PRODUCTS: Heavy Duty Construction Trucks—on and off highway.

Distributors

ALASKA Anchorage..... J. T. Jenkins Co.
 ARIZONA Phoenix..... J. T. Jenkins Co.
 LOS ANGELES..... J. T. Jenkins Co.
 SAN FRANCISCO..... J. T. Jenkins Co.
 COLORADO Denver..... Colorado Kenworth Corp.
 IDAHO Coeur d'Alene..... Transport Equipment Co.
 MONTANA Billings..... Custom Tire & Motor Power Eqpt. Co.
 NEW MEXICO Albuquerque..... J. T. Jenkins Co.
 OREGON Portland..... Roberts Motor Co.
 UTAH Salt Lake City..... Kenworth Sales Co.
 WASHINGTON Seattle..... Spokane Kenworth Co.

S. F. KIESLER CO.

938 W. Huron Street
Chicago 22, Illinois

PRODUCTS: Clamshell Buckets.

Distributors

ARIZONA Phoenix..... Edward R. Bacon Co.
 LOS ANGELES..... Smith-Booth-Usher Co.
 OAKLAND..... Edward R. Bacon Co.
 SACRAMENTO..... Edward R. Bacon Co.
 SAN FRANCISCO..... Edward R. Bacon Co.
 COLORADO Denver..... Western Machinery Co.
 IDAHO Boise..... Feenaughty Machinery Co.
 MONTANA Billings..... Hall-Perry Machinery Co.
 BUTTE..... Hall-Perry Machinery Co.
 GREAT FALLS..... Hall-Perry Machinery Co.
 OREGON Portland..... Feenaughty Machinery Co.
 UTAH Salt Lake City..... Western Machinery Co.
 WASHINGTON Seattle..... Feenaughty Machinery Co.
 SPOKANE..... Feenaughty Machinery Co.

KING-KNIGHT COMPANY

360 Jefferson Street
San Francisco 11, California

PRODUCTS: Electric Generating Sets, diesel, gasoline or natural gas engine, steam engine or turbine driven; Automatic Control Equipment for engine-driven fire pumps, generators, etc.; Fire Pump Panels.

KLOCKNER-HUMBOLDT-DEUTZ, A. G.

Cologne, Germany

PRODUCTS: Air-cooled Diesel Engines; Generator Sets.

Distributors

ARIZONA Phoenix..... Pasco Machine Shop, Inc.
 CALIFORNIA San Carlos..... Atlas Copco Pacific, Inc.
 IDAHO Boise..... Magneto Diesel Supply
 OREGON Portland..... Edward L. Kropp Co.
 WASHINGTON Spokane..... Spokane Diesel Electric
 WYOMING Torrington..... Truck Equipment & Supply Co.

KOEHRING CO. OF CALIFORNIA

2200 Country Club Blvd.
Stockton 4, California

PRODUCTS: Portable Concrete Batching Plants; Portable Cement Silos; Aggregate Bins; Belt and Screw Conveyors; Asphalt Paver Feeders; Water Hauling and Distributing Tanks; Tamping Rollers; Cement Treated Base Windrow Sizers and Sub-Graders.

Distributors

ALASKA (Seattle)..... The Carrington Co.
 ARIZONA Phoenix..... Stapley's
 CALIFORNIA Los Angeles..... Garlinghouse, Fremont & Co.
 Shaw Sales & Service
 Oakland..... Cook Bros. Truck & Equipment Co.
 Sun Equipment Co.
 COLORADO Denver..... Constructors Equipment Co., Inc.
 IDAHO Boise..... Arnold Machinery Co., Inc.
 MONTANA Helena..... Montana Powder & Equipment Co.
 NEW MEXICO Albuquerque..... N. C. Ribble Co.
 OREGON Medford..... Cal-Ore Machinery Co.
 UTAH Salt Lake City..... Arnold Machinery Co.
 WASHINGTON Seattle..... Air-Mac, Inc.

KOEHRING DIVISION OF KOEHRING CO.

3026 W. Concordia Avenue
Milwaukee 16, Wisconsin

PRODUCTS: Excavators; Crawler and Rubber Tire Mounted Cranes, Shovels, Hoes, Clamshells, Draglines; Pavers, Crawler and Rubber Tire Mounted; Concrete Finishers; Mud-Jacks, Sidewalk, Street, Highway and Railroad; Dumpsters; Railroad Cranes.

Distributors

ARIZONA Phoenix..... Neil B. McGinnis Co.
 CALIFORNIA Los Angeles..... Harron, Rickard & McCone Co.
 San Francisco..... George M. Philpott Co.
 Stockton..... Action Equipment Co.
 COLORADO Denver..... McKelvy Machinery Co.
 IDAHO (Spokane)..... American Machine Co.
 Boise..... Engineering Sales & Service Co.
 MONTANA Billings..... Western Construction Equipment Co.
 NEVADA (San Francisco)..... George M. Philpott Co.

(Continued in next column)

Koehring Division of Koehring Co.

(Cont'd)

NEW MEXICO Albuquerque..... Harry Cornelius Co.
 OREGON Portland..... Columbia Equipment Co.
 UTAH Salt Lake City..... Kimball Equipment Co.
 WASHINGTON Seattle..... Pacific Holst & Derrick Co.
 Spokane..... American Machine Co.
 WYOMING (Billings)..... Western Construction Equipment Co.
 (Denver)..... McKelvy Machinery Co.

KOHLER COMPANY

Kohler, Wisconsin

PRODUCTS: Electric Generator Sets; Engines, gasoline.

Factory Branches

CALIFORNIA Los Angeles—3458 Wilshire Blvd..... W. D. Porter
 San Francisco—570 Sutter St..... W. L. Mendenhall
 WASHINGTON Seattle—1907 Third Ave..... E. C. Stultz

Distributors

ALASKA (Seattle)..... Instrument Laboratory, Inc.
 ARIZONA Phoenix..... Nelson Electric Co.
 Tucson..... Nelson Equipment Co.
 CALIFORNIA Berkeley..... West Coast Motors
 Fresno..... Kellogg-Little Co.
 Los Angeles..... Generator Equipment Co.
 Sacramento..... Langner & Rifkin
 COLORADO Denver..... Waukesha Engine & Eqpt. Co.
 Grand Junction..... S & M Supply Co.
 MONTANA Butte..... Hall-Perry Machinery Co.
 Great Falls..... Silver State Auto Co.
 NEVADA Reno..... Auto Electric
 NEW MEXICO Albuquerque..... Contractors Eqpt. & Supply Co.
 Hill's Auto Electric Service
 Farmington..... Waukesha Engine & Eqpt. Co.
 Hobbs..... Waukesha Sales & Service, Inc.
 OREGON Medford..... Cal-Ore Machinery Co.
 Portland..... Instrument Laboratory, Inc.
 Truck & Industrial Equipment Co.
 UTAH Salt Lake City..... Diesel Electric Service & Supply Co.
 WASHINGTON Seattle..... Instrument Laboratory, Inc.
 Northwest Motor Parts & Mfg. Co.
 Spokane..... Equipment Sales & Service
 Intermountain Equipment Co.
 WYOMING Casper..... Casper Supply Co.
 Cody..... Van's Supply

KOLMAN MANUFACTURING CO.

3830 West 12th Street
Sioux Falls, South Dakota

PRODUCTS: Portable and Stationary Belt Conveyors; Conveyor-Screen Loading and Screening Plants (portable); Vibrating Screens (for portable and stationary installations); Shouldering Machines; Portable Cranes.

Western Representative

CALIFORNIA San Francisco—1739 32nd Ave..... Sam A. Madrid

Distributors

ALASKA Fairbanks..... The Carrington Company
 ARIZONA Phoenix..... The O. S. Stapley Co.
 CALIFORNIA Los Angeles..... Brown-Bevis Industrial Eqpt. Co.
 Oakland..... Spears-Wellis Machinery Co.
 COLORADO Denver..... Farls-Moritz Equipment Co.
 IDAHO Boise..... Intermountain Equipment Co.
 MONTANA Butte..... Hall-Perry Machinery Co.

(Continued on next page)

**C. I. T.'s Pay-As-You-Depreciate Plan provides
long term financing for Contractors**

Kolman Manufacturing Co. (Cont'd)

NEVADA
Elko.....A-D Machinery Co.

NEW MEXICO
Albuquerque.....Construction Machinery Co.

OREGON
Portland.....Balzer Machinery Co.

UTAH
Salt Lake City.....Rasmussen Equipment & Supply Co.

WYOMING
Cheyenne.....Wortham Machinery Co.

H. J. KRUEPER CO.

535 S. Clarence Street
Los Angeles 33, California

PRODUCTS: Taper Tie Form Clamps.

Distributors

ARIZONA
Phoenix.....Tractor Parts & Equipment Co.

CALIFORNIA
Los Angeles.....W. J. Burke & Co.
Sacramento.....W. J. Burke & Co.
San Francisco.....W. J. Burke & Co.

COLORADO
Denver.....K. C. Construction Equipment Co.

NEW MEXICO
Albuquerque.....W. J. Burke & Co.

OREGON
Portland.....W. J. Burke & Co.

UTAH
Salt Lake City.....Intermountain Concrete Specialty Co.

WASHINGTON
Seattle.....W. J. Burke & Co.

KW-DART TRUCK CO.

2623 Oak Street
Kansas City 8, Missouri

PRODUCTS: Heavy Duty "off-highway" End Dump Trucks and Tractor-Trailer Units.

District Representative

UTAH
Bountiful—944 E. Center.....Mark Kasper

Distributors

ARIZONA
Bisbee.....Goar Service & Supply Co.
Phoenix.....J. T. Jenkins Co.

CALIFORNIA
Fresno.....J. T. Jenkins Co.
Los Angeles.....J. T. Jenkins Co.
San Francisco.....J. T. Jenkins Co.

NEW MEXICO
Albuquerque.....J. T. Jenkins Co.

OREGON
Portland.....Wood Tractor Co.

WASHINGTON
Spokane.....Spokane Kenworth Co.

KWIK-MIX CO.

235 W. Grand Avenue
Port Washington, Wisconsin

PRODUCTS: Concrete Mixers; Plaster-Mortar Mixers; Bituminous Mixers; Power Wheelbarrows; Fork Lifts.

Distributors

ARIZONA
Phoenix.....Neil B. McGinnis Co.

CALIFORNIA
Bakersfield.....San Joaquin Tractor Co.
Los Angeles.....Harron, Rickard & McCone Co.
San Francisco.....Standard Machinery Co.
Stockton.....Action Equipment Co.

COLORADO
Denver.....Armstrong Caster Co.

IDAHO
Boise.....Engineering Sales & Service Co.

MONTANA
Billings.....Western Construction Eqt. Co.
Great Falls.....Western Construction Eqt. Co.
Missoula.....Western Construction Eqt. Co.

NEW MEXICO
Albuquerque.....Harry Cornelius Co.

OREGON
Portland.....Columbia Equipment Co.
Pacific Builders Supply Co.

UTAH
Salt Lake City.....Kimball Equipment Co.

WASHINGTON
Seattle.....Pacific Hoist & Derrick Co.
Spokane.....American Machine Co.

LA CROSSE TRAILER CORP.

418 Gould Street
La Crosse, Wisconsin

PRODUCTS: Heavy Duty Low Bed Trailers.

Distributors

ARIZONA
Phoenix.....Western Machinery Co.

CALIFORNIA
Los Angeles.....Smith-Booth-Usher Co.
San Francisco.....Edward R. Bacon Co.

COLORADO
Denver.....Western Machinery Co.

IDAHO
Boise.....The Sawtooth Co.

MONTANA
Billings.....Western Construction Eqt. Co.
Great Falls.....Western Construction Eqt. Co.

NEVADA
Reno.....R. D. Roeder Equipment Co.

NEW MEXICO
Albuquerque.....R. L. Harrison Co.
N. C. Ribble

UTAH
Salt Lake City.....Cate Equipment Co.
Lund Machinery Co.
Western Machinery Co.

WASHINGTON
Seattle.....Hatten Machinery Co.
Northern Commercial Co.
Star Machinery Co.
American Machinery Co.

Spokane.....

WYOMING
Casper.....Moss Equipment Co.

LE ROI DIVISION

Westinghouse Air Brake Co.
1706 South 68th Street
Milwaukee 1, Wisconsin

PRODUCTS: Air Compressors; Clay Spades; Drills; Pavement Breakers; Rock Drills; Rock Bits; Tampers; Tractair Compressors; Wagon Drills.

Regional Managers

CALIFORNIA
Oakland—428 13th St., Rm. 802
Easton Bldg.....I. E. Smiley

COLORADO
Denver—610 Farmers Union Bldg.....W. E. Mattson

CALIFORNIA
Emeryville—1545 Park Ave.....W. H. Winheim
Redondo Beach—1212 Ynez Ave.....J. H. Crawford

UTAH
Salt Lake City—1425 Kensington Ave.....T. E. Stone

WASHINGTON
Seattle—1565 E. 171st St.....R. E. Marler

Field Representatives

CALIFORNIA
Emeryville—1545 Park Ave.....W. H. Winheim
Redondo Beach—1212 Ynez Ave.....J. H. Crawford

UTAH
Salt Lake City—1425 Kensington Ave.....T. E. Stone

WASHINGTON
Seattle—1565 E. 171st St.....R. E. Marler

Distributors

ALASKA
Anchorage.....Craig Taylor Equipment & Supply Co.

ARIZONA
Phoenix.....Equipment Sales Company

CALIFORNIA
Bakersfield.....Crook Company
Berkeley.....Central Equipment Co., Inc.
Hayward.....Central Equipment Co., Inc.
Los Angeles.....Crook Company
N. Sacramento.....Central Equipment Co., Inc.
San Francisco.....Rix Company, Inc.

COLORADO
Denver.....Denver Air Machinery Co.
Grand Junction.....S & M Supply Co., Inc.

IDAHO
Boise.....Southern Idaho Eqt. Co. of Boise
Idaho Falls.....Southern Idaho Equipment Co.
Twin Falls.....Southern Idaho Equipment Co.

MONTANA
Billings.....Western Construction Eqt. Co.
Great Falls.....Western Construction Eqt. Co.

NEVADA
Reno.....General Equipment Co.

NEW MEXICO
Albuquerque.....Lively Equipment Co.

OREGON
Portland.....Balzer Machinery Co.

UTAH
Salt Lake City.....Archer Tractor & Machinery Co.

WASHINGTON
Kennewick.....Safway Equipment Co.
Seattle.....Hatten Machinery Co.
Spokane.....Ferris Equipment Co.
Yakima.....Safway Equipment Co.

WYOMING
Cheyenne.....Wilson Equipment & Supply Co.

LESCHEN WIRE ROPE DIVISION

H. K. Porter Co., Inc.
2727 Hamilton Avenue
St. Louis 12, Missouri

PRODUCTS: Wire Rope.

District Managers

CALIFORNIA
San Francisco—520 Fourth St.....D. G. Berglund

WASHINGTON
Seattle—1041 Alaskan Way So.D. G. Berglund

Western Office and Warehouse

CALIFORNIA
Los Angeles.....6424 E. Fleet St.

Distributors

ARIZONA
Phoenix.....Pratt-Gilbert Hardware Co.
Yuma.....Braden Machinery Co.

CALIFORNIA
Arcata.....Loggers Mill Supply
Blythe.....Honnen Machinery Co.
Crescent City.....Pacific Engine & Machine Works
Fresno.....Allied Equipment Co.
Grass Valley.....Steele Supply Co.
Los Angeles.....Garlinghouse-Fremont & Co.
Napa.....Berglund Tractor & Eqt. Co.
Oakland.....Viking Supply Co.
Oxnard.....Wallace Machinery Co.
Salinas.....Seaboard Equipment & Supply Co.
San Francisco.....Farmers Mercantile Co.
Santa Rosa.....Coast Equipment Co.
Stockton.....Berglund Tractor & Eqt. Co.
Willits.....Hickinbotham Bros.
Willits.....Berglund Tractor & Eqt. Co.

COLORADO
Denver.....Faris-Moritz Equipment Co.
M. L. Foss, Inc.
Pueblo.....Holmes Hardware Co.
S. W. Pressey & Son

IDAHO
Pocatello.....Flaherty Manufacturing, Inc.
Salmon.....Havemann Hardware Co.

NEVADA
Reno.....Sierra Machinery Co.

OREGON
Astoria.....Alfred Pusti & Co.
Independence.....Independence Iron Works

UTAH
Ogden.....Mountain States Implement Co.
Salt Lake City.....Industrial Supply Co., Inc.
Tremonton.....Mountain States Implement Co.

WASHINGTON
Seattle.....Seattle Ship Supply, Inc.
Washington Iron Works
Yukon Equipment Co.
Spokane.....Nott-Atwater Co.

LE TOURNEAU-WESTINGHOUSE CO.

2301 North Adams Street
Peoria, Illinois

PRODUCTS: Angledoosers; Blades (scraper, bulldozer, motor grader); Bottom Dump Hauler; Bulldozers; Cranes (mobile and Jib); Flat Bed Haulers; Logging Arches and Winches; Motor Graders; Power Control Units; Rear Dump Haulers; Rooters; Root Rake; Scrapers (self-propelled); Scrapers (tractor drawn); Sheepsfoot Rollers; Snow Plows (wings and blowers); Switch Mobile and Switch Tractor; Tournapulls; Tournarope; Tournatractor; Tree Stringer; Twin-C Tractor; Traveloader.

Distributors

ALASKA
Anchorage.....Bashaw Equipment Co.
Fairbanks.....Miller, Bentley & Bashaw Eqt. Co.

ARIZONA
Phoenix.....Road Machinery Co.
Tucson.....Road Machinery Co.

CALIFORNIA
Bakersfield.....Crook Company (Branch)
Los Angeles.....Crook Company
Oakland.....Blakemore Equipment Co.
Sacramento.....Blakemore Equipment Co. (Branch)

COLORADO
Denver.....Tudor Equipment Co.

IDAHO
Boise.....G. K. Machinery Co.

MONTANA
Billings.....Western Construction Eqt. Co.
Branch.....Great Falls

NEVADA
Reno.....Pioneer Eqt. Co. of Nevada

(Continued on next page)

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
Equitable Building, Portland

WESTERN CONSTRUCTION EQUIPMENT DIRECTORY

MANUFACTURERS' SECTION

Tourneau-Westinghouse Co. (Cont'd)

NEW MEXICO
 Albuquerque.....Contractors Eqpt. & Supply Co.
OREGON
 Portland.....Loggers & Contractors Mch. Co.
 Branch:.....Eugene
UTAH
 Salt Lake City.....Rocky Mountain Machinery Co.
WASHINGTON
 Spokane.....Inland Diesel & Machinery Co.
WYOMING
 Casper.....Moss Equipment & Supply Co.

G. LeTOURNEAU, INC.
 2399 South MacArthur Street
 Longview, Texas

PRODUCTS: Off-Road Transporters; Rubber-Tired
 Cranes; Logging Arches; Hoists; Rough
 Terrain-Heavy Duty Fork Lifts; Heavy
 Duty Land Clearing Equipment.

Distributors

CALIFORNIA
 Arcata.....Loggers & Mill Supply Co.
 Redding.....Paul Droscher Sales
ONTARIO
 Billings.....Seitz Machinery Co.
OREGON
 Eugene.....R. G. LeTourneau Sales & Service Co.
WASHINGTON
 Seattle.....Totem Equipment Co.

THE LINCOLN ELECTRIC CO.
 22801 St. Clair Avenue
 Cleveland 17, Ohio

PRODUCTS: Electric Arc Welders; Arc Welding Electrodes and Arc Welding Supplies; Electric Motors.

Factory Branches

CALIFORNIA
 Emeryville—Manager.....S. H. Taylor
 Los Angeles—Manager.....J. B. McCormick
 San Francisco—Manager.....C. L. Stocker
COLORADO
 Denver—Manager.....Merrill Yale
OREGON
 Portland—Manager.....E. H. Well
WASHINGTON
 Seattle—Manager.....R. L. Wilcox

Distributors

ONTARIO
 Billings.....Great Northern Tool & Supply Co.
NEW MEXICO
 Albuquerque.....Big Three Welding Supply Co.
UTAH
 Salt Lake City.....Industrial Supply Co.

LINCOLN ENGINEERING CO.
 5701 Natural Bridge Avenue
 St. Louis 20, Missouri

PRODUCTS: Lubrication Equipment; Material Pumps; Portable Service Rigs.

Lincoln Engineering Co. of California

CALIFORNIA
 Berkeley—
 3033 San Pablo Ave.....Harry Koses, Div. Mgr.
 Los Angeles—
 2844 S. Grand.....L. L. Meikle, Pres.
 Al E. Walker, Div. Mgr.
OREGON
 Portland—
 1018 SE 8th Ave.....Ed Craven, Div. Mgr.

Distributors

ARIZONA
 Flagstaff.....Arizona Supply
 Motor Supply Co.
 Phoenix.....Kerstiens Parts & Machine
 Colyear Motor Sales Co.
 Safford.....Motor Supply Co.
 Tucson.....Motor Supply Co.
 Colyear Motor Sales Co.

CALIFORNIA
 Bakersfield.....Bakersfield Bearing & Mtr. Supply
 Valley Auto Parts
 Corcoran.....Sawtelle & Rosprim
 (Continued in next column)

Lincoln Engineering Co. (Cont'd)

EI Centro.....Valley Auto Supply
Eureka.....Humboldt Supply Co.
Fresno.....Rol Pak Filter Service
Lompoc.....Hobbs Bros.
Los Angeles.....Brent Diesel Filter Service
 Republic Supply Co.
 Shaw Sales & Service
Pomona.....Pomona Motor Parts
Redding.....Service Station Supply
Riverside.....Allbright's
Sacramento.....Gerlinger Motor Parts
San Bernardino.....Reliable Bearing & Supply Co.
 San Bernardino Motor Supply
San Diego.....Construction Machinery Co.
San Francisco.....Coast Equipment Co.
 Wait Motor Supply
San Leandro.....Republic Supply Co.

IDAHO

Boise.....Intermountain Equipment Co.
Caldwell.....Service Parts Co.
Lewiston.....Willett Bros.

NEVADA

Las Vegas.....General Auto Parts
Reno.....Gardner Automotive Parts

OREGON

Eugene.....Oregon Supply Co.
Portland.....Burns Bros. Tire & Supply Co.
 Goodyear Rubber & Asbestos
 Oil Filter Service

WASHINGTON

Forks.....Ulin Maintenance & Supply
Seattle.....Campbell Industrial Supply
 Oil Filter Service
 Piston Service Co.
 Yukon Equipment Co.
Spokane.....Intermountain Equipment Co.
 A. G. Mohr Co.
 Washington Machinery & Supply
Tacoma.....Pease Bros.
Walla Walla.....Morrison Supply Co.
Yakima.....Colyear Motor Sales Co.

LINK-BELT CO.
 Dept. 59-WCED
 Prudential Plaza
 Chicago 1, Illinois

PRODUCTS: Backstops; Bases (motor); Bearings (ball, roller, sleeve); Belting, drive (chain or link, rubber); Belts, V (rubber); Bins; Buckets; Elevator; Car Pullers; Chains for drives (detachable link, roller, silent transmission, steel, cast, rivetless, Promal and others); Clutches (friction and jaw); Collars (shaft); Couplings (shaft); Conveyors, belt, bucket, chain, screw; Fluid Drives; Gearmotors; Gears (bevel, helical, worm); Gear Drives (inline helical, parallel shaft, worm); Hangers (shaft); Motors; Motors (gear, variable speed); Pillow Blocks; Pulleys; Reducers, speed (helical gear, parallel shaft, motorized, shaft mounted, spur gear, worm gear); Screens, vibrating; Sprockets; Takeups; Transmissions; Variable Speed Drives; Winches.

West Coast Offices

CALIFORNIA
 Los Angeles—
 P.O. Box 22056 (1200 Sycamore St., Montebello)
 San Francisco—400 Paul Ave.
COLORADO
 Denver—Schloss & Shubart, 1626 Wazee St.
OREGON
 Portland—3030 NW Industrial St.
UTAH
 Salt Lake City—108 So. Fourth W. St.
WASHINGTON
 Seattle—3405 Sixth Ave. So.
 Spokane—N. 1303 Washington St.
 SEE YOUR LOCAL DISTRIBUTOR

LINK-BELT SPEEDER CORP.
 1201 Sixth Street SW
 Cedar Rapids, Iowa

PRODUCTS: Shovels; Cranes; Hoes; Draglines—crawler, truck, wheel-mounted; gasoline, diesel or electric power—Diesel Pile Hammers.

Factory District Sales Representatives

CALIFORNIA
 Hayward—26651 Peterman Ave.....W. E. Kuhlman
COLORADO
 Denver—8700 N. Essex.....W. B. Severe
OREGON
 Portland—5619 SW Menefee Dr.....J. E. Fleming
 (Continued in next column)

Link-Belt Speeder Corp. (Cont'd)**District Service Representatives**

CALIFORNIA
 San Jose—5416 Carm Ave.....C. Cadwallader
OREGON
 Portland—62924 SW 14th Ave.....D. G. Ballard

Distributors

ALASKA
 Anchorage.....Craig Taylor Eqpt. & Supply Co.
ARIZONA
 Phoenix.....Equipment Sales Co.
CALIFORNIA
 El Monte.....Warnock & Bancroft Equipment Co.
 Fresno.....Edward R. Bacon Co.
 Oakland.....Edward R. Bacon Co.
 Sacramento.....Edward R. Bacon Co.
 San Francisco.....Edward R. Bacon Co.
COLORADO
 Denver.....H. W. Moore Equipment Co.
 Durango.....H. W. Moore Equipment Co.
 Grand Junction.....H. W. Moore Equipment Co.
IDAHO
 Boise.....Western Equipment Co.
 Burley.....Western Equipment Co.
 Idaho Falls.....Western Equipment Co.
 Pocatello.....Western Equipment Co.
 Twin Falls.....Western Equipment Co.
MONTANA
 Billings.....Montana Powder & Equipment Co.
 Helena.....Montana Powder & Equipment Co.
NEW MEXICO
 Albuquerque.....J. D. Coggins Co.
 Farmington.....J. D. Coggins Co.
OREGON
 Central Point.....Howard-Cooper Corp.
 Coquille.....Howard-Cooper Corp.
 Eugene.....Howard-Cooper Corp.
 Ontario.....Howard-Cooper Corp.
 Portland.....Howard-Cooper Corp.
 Roseburg.....Howard-Cooper Corp.
UTAH
 Salt Lake City.....Rocky Mountain Machinery Co.
WASHINGTON
 Seattle.....Howard-Cooper Corp.
 Spokane.....Western Machinery Co.
WYOMING
 Casper.....Studer Tractor & Equipment Co.

LIPPMANN ENGINEERING WORKS, INC.

4603 W. Mitchell Street
 Milwaukee 14, Wisconsin

PRODUCTS: Rock Crushers; Crushing Plants, both portable and stationary; Washing Plants, portable and stationary; Vibrating Screens; Conveyors; Sand Drags; Pulverizers; Scrubbers.

Distributors

CALIFORNIA
 Los Angeles.....Larson Equipment Co.
 San Francisco.....Coast Equipment Co.
IDAHO
 Boise.....Southern Idaho Equipment Co.
 Idaho Falls.....Lang Construction Equipment Co.
 Twin Falls.....Southern Idaho Equipment Co.
MONTANA
 Great Falls.....Monty Machinery Co.
OREGON
 Eugene.....Cramer Machinery Co.
 Portland.....Cramer Machinery Co.
UTAH
 Salt Lake City.....Lang Construction Equipment Co.
WASHINGTON
 Seattle.....Hulse Machinery Co., Inc.

LITTLE GIANT CRANE & SHOVEL, INC.

E. 16th and Howard Drive
 Des Moines 13, Iowa

PRODUCTS: Shovels; Cranes; Clamshells; Draglines; Trenches; Pile Drivers; Post Drivers; Magnet Cranes; Crawler, Swamper, Truck and Rail Propulsion Mounted; Gasoline, Diesel or Electric Power.

Distributors

ALASKA
 Anchorage.....Bashaw Equipment Co.
 Fairbanks.....Bashaw Equipment Co.
MONTANA
 Billings.....Western Construction Eqpt. Co.
 Great Falls.....Western Construction Eqpt. Co.
WASHINGTON
 Seattle.....Pacific Hoist & Derrick Co.

C. I. T.'s Pay-As-You-Depreciate Plan provides long term financing for Contractors

LITTLEFORD BROS., INC.
 457 East Pearl Street
 Cincinnati 2, Ohio

PRODUCTS: Asphalt and Bituminous Mixers; Bituminous Distributors; Bituminous Maintenance Equipment; Steam Boilers; Supply Tanks; Bins; Trail-O-Distributors; Kettles; Tool Heaters; Bituminous Surface Heaters; Bituminous Finishers; Bituminous Sprayers; Bituminous Spreaders; Portable Road Rollers; Road Brooms; Water Sprinklers; Bituminous Planers; Tanker Heaters; Asphalt and Bituminous Pumps; Asphalt Plants; Bituminous Pavers; Stone Base Pavers; Gas Burners; Oil Burners.

Dealer Representative

CALIFORNIA
 La Jolla—7519 Pepita Way.....Clark Moore

Distributors

ALASKA
 (Seattle).....Yukon Equipment Co.
 ARIZONA
 Phoenix.....Western Machinery Co.
 CALIFORNIA
 Los Angeles.....Smith-Booth-Usher Co.
 San Francisco.....Edward R. Bacon Co.
 COLORADO
 Denver.....Ray Corson Machinery Co.
 IDAHO
 Boise.....Feenaughty Machinery Co.
 MONTANA
 Billings.....Hall-Perry Machinery Co.
 NEW MEXICO
 Albuquerque.....J. D. Coggins Co.
 OREGON
 Portland.....Feenaughty Machinery Co.
 UTAH
 Salt Lake City.....Lund Machinery Co.
 WASHINGTON
 Seattle.....Feenaughty Machinery Co.
 Spokane.....Feenaughty Machinery Co.
 WYOMING
 Cheyenne.....Wortham Machinery Co.

LOS ANGELES STEEL CASTING CO.
 6100 South Boyle Avenue
 Los Angeles 58, California

PRODUCTS: Taper Shanks and Tips for Sheepfoot Rollers.

LUDERJAK COMPANY
 1319 East Broadway
 El Cajon, California

PRODUCTS: Self-Squaring Gussets for shoring, half columns, etc.

Distributors

CALIFORNIA
 Inglewood.....C. P. Concrete Equipment Co.
 Los Angeles.....Neptune Manufacturing Co.
 Oakland.....C. P. Concrete Equipment Co.

LULL ENGINEERING CO.
 3045 Highway 13
 St. Paul 11, Minnesota

PRODUCTS: Underbody Truck Grader, Ice Blades and Ice Roller Crushers; Street Sweepers; High Lift Loaders; Front End Loaders; Snow Brooms; Hydraulic Cylinders.

Distributors

REFER TO FACTORY AT ABOVE ADDRESS

LYNN ENGINEERING CO.
 1204 Russ Building
 San Francisco 4, California

PRODUCTS: Engine-Generator Plants (Lyncco Power-house) (Diesel and gasoline-powered light plants); Air Curtain Jet Blast Fence (for jet aircraft run-up on airports).

Factory Branch Manager

CALIFORNIA
 Los Gatos—19451 Black Rd.....S. Lynn

M-B CORPORATION
 New Holstein, Wisconsin

PRODUCTS: Power Brooms; Street, Airport, Highway and Warehouse Markers; Garbage Collection Bodies; M-B Truck Loaders.

Western District Representative

CALIFORNIA
 San Mateo—240 E. Bellevue.....Don Farmer

Distributors

ARIZONA
 Phoenix.....Road Machinery Co.
 CALIFORNIA
 Los Angeles.....Smith-Booth-Usher Co.
 San Francisco.....Edward R. Bacon Co.
 COLORADO
 Denver.....Macdonald Equipment Co.
 IDAHO
 (Salt Lake).....W. H. Pingree Co.
 MONTANA
 Billings.....Industrial Equipment Co.
 Great Falls.....NorMont Equipment Co.
 NEVADA
 Las Vegas.....Clark County Wholesale Merc. Co.
 NEW MEXICO
 Albuquerque.....Lively Equipment Co.
 OREGON
 Portland.....Contractors Equipment Corp.
 UTAH
 Salt Lake City.....W. H. Pingree Co.
 WASHINGTON
 Seattle.....Washington Truck Equipment, Inc.
 Sahlberg Equipment, Inc.
 WYOMING
 Cheyenne.....Kereml Tractor & Equipment Co.

M-R-S MANUFACTURING CO.
 P.O. Box 336
 Flora, Mississippi

PRODUCTS: Diesel Wheel Tractors; Hauling Units; Scrapers; Bottom Dump Wagons; Bulldozers.

Western Sales Manager

CALIFORNIA
 San Jose—1066 Welsh Ave.....John W. Appleman

Distributors

ARIZONA
 Phoenix.....Arizona Equipment Sales
 CALIFORNIA
 Fresno.....Allied Equipment Co.
 Los Angeles.....Hostetter-Ostrom Machinery Co.
 Redwood City.....Edwards Equipment Co.
 San Diego.....Southern Ept. & Supply Co.
 COLORADO
 Denver.....Faris-Moritz Equipment Co.
 IDAHO
 Boise.....Engineering Sales Service, Inc.
 MONTANA
 Billings.....Industrial Equipment Co.
 Great Falls.....NorMont Equipment Co.
 NEW MEXICO
 Albuquerque.....N. C. Ribble Co.
 OREGON
 Portland.....Cramer Machinery Co.
 UTAH
 Salt Lake City.....Parker Equipment Co.
 Rasmussen Equipment & Supply Co.

MACK TRUCKS, INC.
 499 Hamilton Avenue
 Palo Alto, California

PRODUCTS: Motor Trucks; Buses and Fire Apparatus.

Factory Branch Managers

CALIFORNIA
 Arcata—50 S. "G" St.....R. F. Frazier
 Los Angeles—2001 S. Alameda St.....C. E. Cole
 San Francisco—1745 Folsom St.....J. E. Donovan

COLORADO
 Denver—4850 Vasquez.....V. H. Knowles

OREGON
 Eugene—933 Franklin Blvd.....G. W. Haynes
 Portland—1122 N. Williams.....E. L. Russell

UTAH
 Salt Lake City—704 S. 3rd West.....S. V. Trent

WASHINGTON
 Seattle—3707 Airport Way.....E. A. May

(Continued in next column)

Mack Trucks, Inc. (Cont'd)
Western Division Personnel

CALIFORNIA
 Palo Alto.....C. K. Revell, General Manager
 L. F. Lindstrom, Asst. Gen. Mgr.
 S. J. Coffey, Off-Highway Manager

Distributors

ALASKA
 Anchorage.....Cummins Alaska Service, Inc.
 Fairbanks.....Fairbanks Automotive Co.
 ARIZONA
 Phoenix.....Arizona Truck Service & Sales
 Tucson.....Graves & Reed
 CALIFORNIA
 Bakersfield.....California Truck & Ind. Ept. Co.
 Blythe.....Leo's Truck & Diesel Service
 Colma.....Ferretti Bros.
 Fresno.....Reliable Automotive Co.
 Oakland.....Howard B. Fredericks Co.
 Palm Springs.....Harold Smith Garage
 Redding.....W. V. Morgan Co.
 Sacramento.....W. V. Morgan Co.
 San Bernardino.....Highway Truck Service
 San Diego.....San Diego Construction Equipment Co.
 San Jose.....Morgan's
 San Luis Obispo.....Farmers Hardware & Ept. Co.
 Stockton.....Stockton Diesel Service
 Ventura.....Fleet Maintenance, Inc.
 IDAHO
 Boise.....Southern Idaho Ept. Co. of Boise
 Lewiston.....Idaho Truck Sales Co., Inc.
 Pocatello.....Forde Johnson Truck Service, Inc.
 Twin Falls.....Wyllies Truck Sales
 MONTANA
 Butte.....Roberts Truck & Parts Supply
 Great Falls.....Rice Motors
 Missoula.....Brian Motor Co.
 NEVADA
 Reno.....Reno Equipment Sales Co.
 OREGON
 Medford.....Jerry Olson Mack Sales
 Portland.....Howard-Cooper Corp. (Fire App.)
 Salem.....Valley-Cascade Truck & Parts, Inc.
 UTAH
 Cedar City.....Cox Motor Co.
 Logan.....Dean C. Pack Motor Co., Inc.
 Ogden.....Rawson Garage Co.
 Provo.....Central Utah Motor Co.
 Tooele.....E. L. Gillespie's Excel Service
 WASHINGTON
 Chehalis.....Mathis Motors
 Everson.....Everson Service City
 Mount Vernon.....Truck City, Inc.
 Spokane.....Liljenquist Motors, Inc.
 Wenatchee.....Midstate Truck & Machinery Co.
 Woodland.....Tri-County Mack Sales
 Yakima.....Tire Sales & Equipment

MACWHYTE WIRE ROPE CO.
 2909 14th Avenue
 Kenosha, Wisconsin

PRODUCTS: Wire Rope and Slings; Wire Rope (Cable) Assemblies; Stainless Steel, Monel Metal and Plastic Coated Wire Rope.

Western Manager—Offices and Warehouses

CALIFORNIA
 San Francisco—188 King St.....F. M. Sims

Western Offices

CALIFORNIA
 Los Angeles—185 S. Myers St.....Ph: AN 8-2884

OREGON
 Portland—1603 NW 14th Ave.....Ph: CA 6-6588

WASHINGTON
 Seattle—87 Holgate St.....Ph: MA 2-1715

MADSEN WORKS

Div. of Baldwin-Lima-Hamilton Corp.
 14120 E. Rosecrans Ave., P.O. Box 38
 La Mirada, California

PRODUCTS: Asphalt Paving Plants; Rock and Sand Dryers; Pug Mill Mixers; Cylcone Dust Collectors; Madsen Road Pup (Travel-Mi Plant); Johnson Float Finisher (Cement Finishing); Pump Valves; Wet Tube Dust Washers.

Distributors

ALASKA
 Anchorage.....Evans Engine & Equipment Co., Inc.
 (Continued on next page)

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
 Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
 Equitable Building, Portland

Marlow Pumps (Cont'd)

IDAHO	Boise.....Engineering Sales Service, Inc.
MONTANA	Billings.....Montana Powder & Equipment Co.
	Helena.....Montana Powder & Equipment Co.
OREGON	Portland.....Geo. M. Philpott Co.
	Seattle.....Sahlberg Equipment, Inc.

MARMON-HERRINGTON CO., INC.
 1511 W. Washington Street
 Indianapolis 7, Indiana

PRODUCTS: All Wheel Drive Fords.

District Manager

CALIFORNIA	Oakland—250 Grand Ave.....Paul Bliss
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Distributors

ARIZONA	Phoenix.....Ray Korte
CALIFORNIA	Los Angeles.....Crook Company
	San Francisco.....Western Traction Co.
COLORADO	Denver.....The Winter-Weiss Co.
IDAHO	Boise.....Starline Equipment Co.
MONTANA	Billings.....Midland Implement Co.
NEVADA	Reno.....General Equipment Co.
NEW MEXICO	Albuquerque.....The Winter-Weiss Co. of New Mexico
	Farmington.....Farmington Motor Co.
OREGON	Portland.....Edward L. Kropp Co.
UTAH	Salt Lake City.....Foulger Equipment Co.
WASHINGTON	Seattle.....Robblee Utilities Equipment Co.
WYOMING	Casper.....Natrona Supply Co.

MARTIN IRON WORKS, LTD.

1222 East 28th Street
 P.O. Box 2857, Terminal Annex
 Los Angeles 54, California

PRODUCTS: Valves and Gate Valves; Portable Hydrants; Pipe Machines; Sprinkler Equipment.

MARVEL EQUIPMENT CORP.

215 Eagle Street
 Brooklyn 22, New York

PRODUCTS: Concrete Vibrators, Grinders and Generators.

Distributors

CALIFORNIA	Pasadena.....J. E. Haddock, Ltd.
NEW MEXICO	Roswell.....Smith Machinery Co., Inc.
OREGON	Portland.....Brunner & Lay Corp.
UTAH	Salt Lake City.....Hainer Equipment Co.
WASHINGTON	Spokane.....Fred M. Viles Co.
WYOMING	Casper.....Studer Tractor & Equipment Co.

MARVIN LANDPLANE CO.

P.O. Box 209
 Woodland, California

PRODUCTS: Land Levelers and Roadplanes.

MASSEY-FERGUSON, INC.

1009 South West Street
 Wichita 13, Kansas

PRODUCTS: Davis Loader with the following attachments: Crane, Fork Lift, Scarifier, Dozer Blade, Utility Bucket, Flare Bucket, Landscape Bucket; Davis Back-hoe.

(Continued in next column)

Massey-Ferguson, Inc. (Cont'd)

Regional Office

CALIFORNIA	Los Angeles.....2545 S. Yates Ave.
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Distributors

ARIZONA	(Los Angeles).....Earth Equipment Corp. Massey-Ferguson, Inc.
CALIFORNIA	Los Angeles.....Earth Equipment Corp. Massey-Ferguson, Inc.
	Stockton.....Massey-Ferguson, Inc.
COLORADO	Denver.....Massey-Ferguson, Inc.
IDAHO	Pocatello.....Massey-Ferguson, Inc.
	(Salt Lake City) General Implement Distributors, Inc.
MONTANA	Billings.....Massey-Ferguson, Inc.
	Great Falls.....Montana-Oliver Distributing Co. Montana-Oliver Distributing Co.
NEVADA	(Los Angeles).....Earth Equipment Corp.
	(Pocatello).....Massey-Ferguson, Inc.
	(Salt Lake City) General Implement Distributors, Inc.
	(Stockton).....Earth Equipment Corp. Massey-Ferguson, Inc.
NEW MEXICO	(Denver).....Massey-Ferguson, Inc.
OREGON	Portland.....Massey-Ferguson, Inc.
UTAH	(Pocatello).....Massey-Ferguson, Inc.
	Salt Lake City.. General Implement Distributors, Inc.
WASHINGTON	(Portland).....Massey-Ferguson, Inc.
WYOMING	(Billings).....Montana-Oliver Distributing Co.
	(Denver).....Massey-Ferguson, Inc.
	(Great Falls).....Montana-Oliver Distributing Co.
	(Pocatello).....Massey-Ferguson, Inc.
	(Salt Lake City) General Implement Distributors, Inc.

MASTER VIBRATOR CO.

1752 Stanley Avenue
 Dayton 1, Ohio

PRODUCTS: Generator Plants; Vibratory Screens; Concrete Vibrators; Tampers; Compactors; Hammers; Plaster and Mortar Mixers; Turn-A-Trowels; Space Heaters.

Regional Manager

CALIFORNIA	Los Angeles—2056 W. Century Blvd.....F. J. Flal
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Distributors

ALASKA	Anchorage.....Craig-Taylor Equipment Co.
ARIZONA	Phoenix.....Shriver Machinery Co.
CALIFORNIA	Berkeley.....Central Equipment Co.
	Los Angeles.....Morrissey Equipment Co.
	Monrovia.....Adams Sales & Service
	San Francisco.....The Rix Co.
COLORADO	Denver.....Power Rental Equipment, Inc.
IDAHO	Boise.....The Sawtooth Co.
MONTANA	Billings.....Western Construction Eqt. Co.
	Great Falls.....Western Construction Eqt. Co.
NEVADA	Reno.....Sierra Industrial Co., Inc.
NEW MEXICO	Albuquerque.....New Mexico Equipment Co.
OREGON	Portland.....Anderson Oregon Rental Ericsson Equipment Co.
UTAH	Salt Lake City.....Foulger Equipment Co.
WASHINGTON	Seattle.....Andrews Equipment Co.
	Spokane.....Andrews Equipment Co.
WYOMING	Cheyenne.....Wortham Machinery Co.

THE MAXI CORP.

P.O. Box 3129, Terminal Annex
 Los Angeles 54, California

PRODUCTS: Pneumatic-tired Crane Carriers for cranes with capacities from 15 to 50 tons; Five models of 3 and 4 axle Truck Crane Carriers for cranes with capacities from 30 to 45 tons; Maxibrake Attachment (automatic mechanical parking and emergency brake application device).

Distributors

Contact local Crane & Shovel Dealer for Maxi Crane Carrier information and other products.

MAXON CONSTRUCTION CO., INC.

2600 Far Hills Avenue
 Dayton 9, Ohio

PRODUCTS: Dumpcrete—non-agitated concrete hauling body; Concrete Spreader.

Distributors

ARIZONA	Phoenix.....Nell B. McGinnis Equipment Co.
CALIFORNIA	Los Angeles.....Garlinghouse-Fremont & Co.
	San Francisco.....Standard Machinery Co.
NEVADA	Reno.....Sierra Machinery Co.
NEW MEXICO	Albuquerque.....Harry Cornelius Co.
OREGON	Portland.....Cramer Machinery Co.

M. P. McCAFFREY, INC.

2121 East Twenty-fifth Street
 Los Angeles 58, California

PRODUCTS: Clamshell Buckets; Crane Booms; Back Hoe Attachments; Sheaves and Sheave Blocks; Rock Tongs; Grapples.

Distributors

ARIZONA	Phoenix.....Lee Redman Equipment Co.
	Western Machinery Co.
CALIFORNIA	El Cerrito.....Tool Equipment Rental Co.
	Richmond.....Bay Equipment Co.
	San Francisco.....Edward R. Bacon Co.
	Standard Machinery Co.
IDAHO	Boise.....Intermountain Equipment Co.
NEVADA	Reno.....Sierra Machinery Co.
NEW MEXICO	Albuquerque.....R. L. Harrison Co.
OREGON	Portland.....Balzer Machinery Co.
UTAH	Salt Lake City.....Arnold Machinery Co.
WASHINGTON	Seattle.....Star Machinery Co.

McCAFFREY-RUDDOCK TAGLINE CORP.

2131 East 25th Street
 Los Angeles 58, California

PRODUCTS: Taglines; Magnet Reels; Thomas Boom-stop; Hose Reels.

Distributors

ALASKA	Anchorage.....Craig Taylor Equipment & Supply Co.
ARIZONA	Phoenix.....Equipment Sales Co. Lee Redman Equipment Co. Shriver Machinery Co.
CALIFORNIA	Berkeley.....Owen Bucket Co., Ltd.
	Los Angeles.....Batchelor Rigging Supplies Co.
	Brown-Beris Industrial Eqt. Co.
	Cook Bros. Construction Mch. Co.
	Crook Company
	Essick Manufacturing Co.
	Harron, Richard & McCone Co.
	M. P. McCaffrey, Inc.
	Shaw Sales & Service Co.
	F. W. Shrader Co.
	Smith-Booth-Usher Co.

COLORADO	Denver.....Constructors Equipment Co., Inc.
	Booth-Rouse Equipment Co.
	Farris-Moritz Equipment Co.
	H. W. Moore Equipment Co.

(Continued on next page)

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
 Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
 Equitable Building, Portland

WESTERN CONSTRUCTION EQUIPMENT DIRECTORY

MANUFACTURERS' SECTION

McCaffrey-Ruddock Tagline (Cont'd)

MONTANA
Billings.....Hall-Perry Machinery Co.
Butte.....Hall-Perry Machinery Co.
Great Falls.....Hall-Perry Machinery Co.
Missoula.....Hall-Perry Machinery Co.
Westmont Tractor & Equipment Co.

NEVADA
Reno.....Sierra Machinery Co.

NEW MEXICO
Albuquerque.....Contractors Equipment & Supply Co.

OREGON
Eugene.....Western Equipment Co.
Medford.....Cal-Ore Machinery Co.
Portland.....Balzer Machinery Co.
Clyde Equipment Co.
Electric Steel Foundry Co.
Feenaughty Machinery Co.
Interstate Tractor & Equipment Co.
Western Equipment Co.

UTAH
Salt Lake City.....Arnold Machinery Co.
Foulger Equipment Co.

WASHINGTON
Seattle.....Clyde Equipment Co.
A. H. Cox & Co.
Star Machinery Co.

Spokane.....Electric Steel Foundry Co.
General Machinery Co.
Modern Machinery Co., Inc.

Tacoma.....A. H. Cox & Co.
Wenatchee.....A. H. Cox & Co.

McCONAUGHAY MIXERS, INC.

424 Columbia Street
Lafayette, Indiana

PRODUCTS: H2D Patch Mixers; Asphalt Emulsifiers;
Barrel Heaters; High-capacity Transfer
Pumps; Truck Mounted Asphalt Mixers.

DEALERS THROUGHOUT THE WEST

McCULLOCH CORPORATION

6101 West Century Boulevard
Los Angeles 45, California

PRODUCTS: Chain Saws; Earth Drills.

Distributors

ARIZONA
Phoenix.....Waukesha Southwestern

CALIFORNIA
Eureka.....Redwood McCulloch
Los Angeles.....Fornaciari Co.
Sacramento.....Leavitt Power Tool Co.
San Francisco.....Frazer & Hansen, Ltd.
Kellogg-Little Co.

COLORADO
Denver.....M. L. Foss

IDAHO
Boise.....Wilson Transport Supply

NEW MEXICO
Albuquerque.....Log Cutters Supply

OREGON
Bend.....Bend Chain Saw Service, Inc.

Eugene.....Foster-McCulloch Co.

Portland.....Northwest Loggers Supply Co.

UTAH
Salt Lake City.....Wilson's Transport Supply

WASHINGTON
Seattle.....Northern Commercial Co.
Pacific Equipment, Inc.

Spokane.....McCulloch Eqt. Co.

Yakima.....McCulloch-Cascade Co.

McKIERNAN-TERRY CORP.

24 Mercer Street
Dover, New Jersey

PRODUCTS: Pile Hammers, steam - air and diesel; Pile
Extractors; Pile Hammer Leads; Sand
Drain Equipment; Steam Generators.

Distributors

CALIFORNIA
Los Angeles.....Garlinghouse, Fremont & Co.

San Francisco.....Edward R. Bacon Co.

COLORADO
Denver.....Mine & Smelter Supply Co.

NEW MEXICO
Albuquerque.....R. L. Harrison Co.

OREGON
Portland.....Cramer Machinery Co.

WASHINGTON
Seattle.....Star Machinery Co.

Spokane.....Star Machinery Co.

METAL FORMS CORP.

3300 North Booth Street
Milwaukee 16, Wisconsin

PRODUCTS: Steel Forms for concrete construction
Work—Curb and Gutter Forms; Sidewalk
Forms; Road Paving Forms; Building
Forms; Footing Forms; Circular Tank and
Silo Forms; Manhole Forms.

Distributors

ALASKA
Anchorage.....Craig Taylor Eqt. & Supply Co.

CALIFORNIA
Los Angeles.....Brown-Bevis Industrial Eqt. Co.

Branches.....Bakersfield, Riverside, San Diego,
Ventura

COLORADO
Denver.....Booth-Rouse Equipment Co.

IDAHO
Pocatello.....Flaherty Manufacturing Co.

MONTANA
Billings.....Western Construction Eqt. Co.

Branch.....Great Falls

UTAH
Salt Lake City.....Lund Machinery Co.

METAL PLATE GUARD RAIL DIV.

Marwais Steel Co.
6466 Gayhart Street
Los Angeles 22, California

PRODUCTS: Metal Plate (spring arm mounted) Guard
Rail; Metal Plate Corrugated Guard Rail;
Metal Beam Bridge Rail; Highway Center
Divider; Timber Posts; Culvert Markers;
Guide Posts.

Sales Engineers

ARIZONA
Florence—P. O. Box 837.....C. S. Ludwig

CALIFORNIA
Richmond—1190 S. 14th St.....J. W. Pickrell

MILLER ELECTRIC MFG. CO., INC.

718 South Bounds Street
Appleton, Wisconsin

PRODUCTS: Gasoline engine driven welders/power
plants plus AC, DC and combination
AC/DC welders for both field and shop
use.

District Sales Managers

CALIFORNIA
West Covina—1224 S. Larimore Ave.....C. J. Hogan

COLORADO
Denver—4851 E. Bates.....R. S. Berry

OREGON
Portland—4760 N. Harvard.....E. W. Connor

Distributors

Sold in principal cities throughout the West.

MILLER & SMITH MFG. CO., INC.

500 Phoenix Avenue Northwest
Albuquerque, New Mexico

PRODUCTS: Machinery Trailers; Bucket Elevators; Belt
Conveyors; Storage Bins and Silos; Plate
Feeders; Batching Plants; Concrete Buckets.

MILLER SPREADER CORP.

4020 Simon Road
Youngstown 12, Ohio

PRODUCTS: Towed Spreader; Lute-O-Rake (all alumi-
num lute); Tool Heater; Heated Screed;
Curbdriller.

Distributors

CALIFORNIA
Los Angeles.....Santa Fe Equipment Co.

Oakland.....Sun Equipment Co.

COLORADO
Denver.....Booth-Rouse Equipment Co.

IDAHO
Boise.....Columbia Equipment Co.

Engineering Sales Service, Inc.

MONTANA
Billings.....Western Construction Co.

Great Falls.....Western Construction Co.

(Continued in next column)

Miller Spreader Corp. (Cont'd)

NEW MEXICO
Albuquerque.....Construction Machinery Co.

OREGON
Portland.....Columbia Equipment Co.

UTAH
Salt Lake City.....Kimball Equipment Co.

WASHINGTON
Seattle.....Columbia Equipment Co.

WYOMING
Casper.....Moss Equipment Co.

MILLER SWIVEL PRODUCTS, INC.

1100 East 2nd Street
Pomona, California

PRODUCTS: Ball Bearing Swivels; High Lift Blocks;
Automatic Taglines; Insulator Links for
cranes.

Factory Representatives

CALIFORNIA
Fresno—Norman S. Wright & Co.

1361 Abby St.....George W. Hoover

Newport Beach—1010 Kings Rd...F. Perry Hopkins

Sacramento—Norman S. Wright & Co.,

1102 T St.....Donald Repp

San Francisco—Norman S. Wright & Co.,

1015 Folsom St.....Norman S. Wright, Jr.

COLORADO
Denver—Paul R. Spencer Co.,

4000 York St.....Paul R. Spencer

NEW Mexico
Albuquerque—Paul R. Spencer Co.,

3342 Del Rio Rd.....Harry Ranville

OREGON
Portland—Norman S. Wright & Co.,

3607 SW Corbett St.....Frank Larsen

UTAH
Salt Lake City—Paul R. Spencer Co.,

2520 S. State St.....Clyde Burnett

WASHINGTON
Seattle—Norman S. Wright Co.,

235-9th Ave. No.....E. H. Rankin

Spokane—Norman S. Wright Co.,

S. 125 Stevens.....R. E. Duke

Distributors

ARIZONA
Phoenix.....Pratt Gilbert Hardware Co.

Western Machinery Co.

CALIFORNIA
Fresno.....Fresno Wire Rope & Rigging Co.

Los Angeles.....John A. Batchelor

San Francisco.....Weeks-Howe-Emerson Co.

COLORADO
Denver.....Power Rental Equipment

IDAHO
Pocatello.....Intermountain Equipment Co.

MONTANA
Billings.....Hall-Perry Machinery Co.

Butte.....Hall-Perry Machinery Co.

Great Falls.....Hall-Perry Machinery Co.

Missoula.....Hall-Perry Machinery Co.

NEVADA
Las Vegas.....Lincoln Welding Works, Inc.

Reno.....Sierra Machinery Co.

NEW MEXICO
Albuquerque.....Mine Supply Co.

Carlsbad.....Mine Supply Co.

OREGON
Portland.....Mallory Logging Equipment Co.

UTAH
Salt Lake City.....Holland Equipment Co.

WASHINGTON
Seattle.....B & J Equipment Co.

MILLER TILT-TOP TRAILER, INC.

450 South 92nd Street
Milwaukee 14, Wisconsin

PRODUCTS: Trailers from 4 to 15 ton capacity.

Dealers

ALASKA
(Seattle).....Northern Commercial Co.

Branches: Anchorage, Fairbanks, Juneau, Ketchikan,
Nome, Dawson, Whitehorse

ARIZONA
Phoenix.....Neil B. McGinnis Equipment Co.

COLORADO
Denver.....Winter-Weiss Co.

(Continued on next page)

**C. I. T. provides experienced financing for
Distributors and Contractors**

Miller Tilt-Top Trailer, Inc. (Cont'd)

MONTANA
Butte.....Pioneer Equipment & Supply Co.
Great Falls.....Normont Equipment Co.

NEVADA
Elko.....A-D Machinery Co., Inc.
Las Vegas.....A-D Machinery Co., Inc.

NEW MEXICO
Albuquerque.....N. C. Ribble Co.
Winter-Weiss Co.

OREGON
Eugene.....Western Equipment Co.
Portland.....Andrews & Andrews

UTAH
Moab.....Cate Equipment Co.
Salt Lake City.....Lang Construction Equipment Co.
Utah-Cate Equipment Co.

WASHINGTON
Puyallup.....Pacific Hoist & Derrick Co.
Seattle.....Northern Commercial Co.
Pacific Hoist & Derrick Co.
Spokane.....Spokane Machinery Co.

WYOMING
Casper.....Studer Tractor & Equipment Co.

MINNEAPOLIS-MOLINE CO.

Box 1051
Minneapolis 1, Minnesota

PRODUCTS: Tractors, Industrial Wheel Type, Industrial Crawler Type, and Power Units 27-292 HP, Gas, Diesel, Natural Gas, LP Gas and Distillate.

Factory Branches

CALIFORNIA
Stockton—Manager.....J. A. Scadden

COLORADO
Denver—Manager.....W. Pringle

Distributors

ARIZONA
Phoenix.....Western Machinery Co.

CALIFORNIA
Bakersfield.....M-M Farm Store
Downey.....Machinery Mart
Eureka.....Rogers Machinery Co.
Los Angeles.....Casey-Metcalf Machinery Co.
Industrial Engine Service
San Francisco.....Oswald Machine Works
Stockton.....Machinery Mart

COLORADO
Denver.....Machinery Mart

OREGON
Portland.....Machinery Mart

WASHINGTON
Spokane.....Andrews Equipment Service

MINNESOTA MINING & MFG. CO.

900 Bush Avenue
St. Paul 6, Minnesota

PRODUCTS: Reflective Sheeting; Reflective Liquid.

Factory Branch

CALIFORNIA
Los Angeles—6023 S. Garfield Ave.

MISSISSIPPI VALLEY EQUIPMENT CO.

1908 Railway Exchange Building
St. Louis 1, Missouri

PRODUCTS: Steel Sheet Piling and Bearing Pile; Rebuilt and New Pile Hammers; Pile Extractors and Pile Driving Accessories; Heavy Construction and Railway Equipment.

Write us for more information.

MITCHELL ENGINEERING CO.

Highway 45 North
Columbus, Mississippi

PRODUCTS: Prefabricated Steel Buildings.

Contact factory at P.O. Box 867, Columbus, Mississippi, for further information.

MIXERMOBILE MANUFACTURERS, INC.

8027 N.E. Killingsworth
Portland 20, Oregon

PRODUCTS: Scoopmobiles; Mixermobiles; Towermobiles; Stationary Towers; Stationary Mixers.

District Representatives

CALIFORNIA
La Habra—700 Linda Ave.....Glyn O. White

IDAHO
Moscow—113 N. Washington St.....Loren Martin

Dealers

ARIZONA
Phoenix.....Equipment Sales Co.

CALIFORNIA
Los Angeles.....Smith-Booth-Usher Co.
Oakland.....Edward R. Bacon Co.

MONTANA
Billings.....Western Construction Equipment Co.
Great Falls.....Western Construction Equipment Co.
Missoula.....Western Construction Equipment Co.

NEVADA
Reno.....General Equipment Co.

NEW MEXICO
Albuquerque.....Equipment Sales Co.

OREGON
Portland.....Nelson Equipment Co.

UTAH
Salt Lake City.....Heiner Equipment & Supply Co.

WASHINGTON
Seattle.....Columbia Equipment Co.
Spokane.....Columbia Equipment Co.

MONARCH ROAD MACHINERY CO.

1331 Michigan Street NE
Grand Rapids 3, Michigan

PRODUCTS: Hydraulic Power Control Equipment for the automatic operation of Snow Plows, Road Machinery and similar devices; Fan-Belt Driven Models; Electric Storage Battery Powered Models for 6 or 12-volt systems; Electric Hydraulic Controls for the automatic operation of Discharge Chutes on Ready-Mix Trucks; Emergency Barri-cades.

MONSANTO CHEMICAL CO.

Inorganic Chemicals Div.
Lindbergh & Olive St. Road
St. Louis 24, Missouri

PRODUCTS: Ammonium Nitrate.

District Managers

CALIFORNIA
Los Angeles—6670 E. Flotilla St.....A. L. Smith
San Francisco—111 Sutter St.....D. Dunwoody

MORGEN MANUFACTURING CO.

117 West Third Street
Yankton, South Dakota

PRODUCTS: Steel Scaffolding; Portable Building Material Conveyors.

Distributors

ARIZONA
Phoenix.....Waco Scaffold & Equipment Co.
Tucson.....Babby Building Specialties

CALIFORNIA
Fresno.....Contractors Equipment & Supply Co.
Los Angeles.....Waco-May Co.
San Francisco.....Laurence Myers Co.

COLORADO
Denver.....Western Machinery Co.

OREGON
Portland.....Andrews & Andrews Equipment Co.

UTAH
Salt Lake City.....Western Machinery Co.

WASHINGTON
Seattle.....Andrews Machinery of Washington

MORRISON-PELSUE CO.

2256 South Delaware Street
Denver 23, Colorado

PRODUCTS: Stringing Blocks and Sheaves; Ventilating Blowers to warm enclosures, frozen equipment, personnel shacks; Propane and Gasoline-Operated Portable Heaters; Swivel Hoists for transformers and line equipment; Ventilators. Equipment is manufactured to warm down equipment and provide fresh, safe breathable air to men working on equipment in cold weather.

Distributors

CALIFORNIA
Hollywood.....A. F. Johnson

COLORADO
Denver.....Robert H. Reynolds Drill Co.

UTAH
Salt Lake City.....W. H. Pingree

WYOMING
(Denver).....Robt. H. Reynolds Drill Co.

MORSE BROS. MACHINERY CO.

2900 Brighton Blvd.
Denver 1, Colorado

PRODUCTS: Jaw Crushers; Pulverizers; Ball and Rod Mills; Flotation Machines; Classifiers; Thickeners; Agitators; Vacuum Filters; Diaphragm Pumps.

MORSE-STARRETT PRODUCTS CO.

1204 49th Avenue
Oakland, California

PRODUCTS: Cutters, Wire Rope; Cutters, Cable; Wire Rope Seizing Bands.
Sold through almost all heavy equipment, oil well supply and hardware dealer outlets.

MULLER MACHINERY CO., INC.

Whitman Avenue
Metuchen, New Jersey

PRODUCTS: Concrete Mixers; Plaster and Mortar Mixers; Power Trowels; Hoists; Portable Space Heaters; Concrete Buggies; Tower and Floor Hoppers.

Factory Representative

WASHINGTON
Bellevue—8733-4th Place, N.E.....J. A. Dougan Co.

Distributors

ALASKA
Anchorage.....Craig Taylor Equipment & Supply Co.

ARIZONA
Phoenix.....Superior Equipment Co.

CALIFORNIA
El Cajon.....Kroeger Equipment Co.
Los Angeles.....Southland Scaffold & Equipment Co.
San Francisco.....Laurence Myers & Co.
Stockton.....Waco Scaffolding & Equipment Co.

COLORADO
Denver.....Rental Machinery Co.
Waco Scaffolding & Equipment Co.

IDAHO
Boise.....Arnold Machinery Co.
Idaho Falls.....Arnold Machinery Co.

Jerome.....Cinder Products Co.
Twin Falls.....Volco Builders Supply of Twin Falls

MONTANA
Billings.....Rental Equipment Co.
Butte.....Pioneer Equipment & Supply Co.

Great Falls.....Madden Construction Supply Co.
Monty Machinery Co.

NEVADA
Reno.....Commercial Hardware Co.
Sierra Industrial Co.

NEW MEXICO
Albuquerque.....Albuquerque Products Co.

OREGON
Eugene.....Loggers & Contractors Machinery Co.
Portland.....Loggers & Contractors Machinery Co.
Jacksonville.....Jacksonville Lumber Co.

UTAH
Provo.....Standard Builders Supply Co.
Salt Lake City.....Arnold Machinery Co.
Standard Builders Supply Co.

WASHINGTON
Pasco.....Western Materials
Seattle.....Star Machinery Co.

Spokane.....Safway Scaffold, Inc. of Spokane
Yakima.....Fossee's, Inc.

WYOMING
Cheyenne.....Keremi Tractor & Equipment Co.

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
Equitable Building, Portland

MUNICIPAL SUPPLY CO.
 2508 South Main Street
 South Bend 23, Indiana

PRODUCTS: Street Flushers; Street Sprinklers; Bituminous Distributors; Bituminous Maintenance Units; Special Tank Equipment.

Distributors

ARIZONA
 Phoenix.....Superior Equipment Co.

CALIFORNIA
 El Monte.....Warnock-Bancroft Equipment Co.
 Oakland.....George Avery

COLORADO
 Denver.....Constructors Equipment Co.

IDAHO
 Boise.....The Sawtooth Company
 (Spokane).....Inland Diesel & Machinery Co.

MONTANA
 Butte.....Pioneer Equipment & Supply Co.

NEVADA
 (Salt Lake City).....Holland Equipment Co.

NEW MEXICO
 Albuquerque.....Lively Equipment Co.

OREGON
 Portland.....Edward L. Kropp Co.

UTAH
 Salt Lake City.....Holland Equipment Co.

WASHINGTON
 Seattle.....Air Mac, Inc.
 Spokane.....Inland Diesel & Machinery Co.

WYOMING
 Cheyenne.....Wilson Equipment & Supply Co.
 (Salt Lake City).....Holland Equipment Co.

MURPHY DIESEL CO.
 5317 West Burnham Street
 Milwaukee 14, Wisconsin

PRODUCTS: Engines and Power Units, 96 to 264 HP; Generator Sets, 65 to 165 KW; Marine Engines, 96 to 243 HP; Dual Fuel Engines, 144 to 238 HP; and Mech-Elects which will furnish mechanical and electric power simultaneously.

District Representatives

CALIFORNIA
 Ventura—P. O. Box 278.....F. North Jones

COLORADO
 Denver—1325 S. Ingalls St.....J. L. Jarboe

Distributors

ARIZONA
 Phoenix.....Superior Equipment Co.

CALIFORNIA
 Bakersfield.....Glenn Rose Engine Service
 Los Angeles.....Industrial Engine Service
 San Diego.....National Steel & Shipbuilding Corp.
 San Francisco.....Oswald Machine Works

COLORADO
 Denver.....Macdonald Equipment Co.

IDAHO
 Boise.....Engineering Sales Service, Inc.

MONTANA
 Butte.....Hall-Perry Machinery Co.

NEW MEXICO
 Albuquerque.....Lively Equipment Co.

OREGON
 Medford.....Cai-Ore Machinery Co., Inc.
 Portland.....Baizer Machinery Co.

UTAH
 Salt Lake City.....Arnold Machinery Co., Inc.

WASHINGTON
 Seattle.....Alaska-Pacific Supply, Inc.
 Spokane.....General Machinery Co.

R. R. MURPHY SCALE CO., INC.
 1610 North "C" Street
 Sacramento 14, California

PRODUCTS: Contractors' Motor Truck Portable Scales; Motor Truck Pit Type Scales; Hopper Scales; Built-In and Livestock Scales; Special Scale Equipment.

Distributors

Sold by machinery and equipment dealers throughout the entire United States.

NAPCO INDUSTRIES, INC.
 7th Street at North Lyndale
 Minneapolis 11, Minnesota

PRODUCTS: Front Wheel Drives; Electric Sanders; Towing Vehicles; Four Wheel Drive, Four Wheel Steer Industrial Tractors.

Front Wheel Drive Distributors

ARIZONA
 Phoenix.....Auto Safety House

CALIFORNIA
 Oakland.....C & C Trailer & Body Co.

COLORADO
 Denver.....Jacobs-Kerr & Co.

MONTANA
 Billings.....H.C.L. Equipment, Inc.

NEW MEXICO
 Albuquerque.....Hobbs Trailer Co.

OREGON
 Portland.....Pacific Body Builders

UTAH
 Salt Lake City.....Lang Construction Eqp't. Co.

WASHINGTON
 Seattle.....C & H Equipment Co.
 Spokane.....Critzler Equipment Co.

Highway Safety Appliance Distributors

CALIFORNIA
 Los Angeles.....Wheel Industries, Inc.
 San Francisco.....Wheel Industries, Inc.

COLORADO
 Denver.....Timpte Bros., Inc.

MONTANA
 Billings.....H.C.L. Equipment, Inc.
 Great Falls.....H.C.L. Equipment, Inc.

NEW MEXICO
 Albuquerque.....Timpte Bros., Inc.

OREGON
 Portland.....Six Robblees', Inc.

UTAH
 Salt Lake City.....Wilsons Transport Supply

WASHINGTON
 Seattle.....Six Robblees', Inc.
 Spokane.....Critzler Equipment Co.

Crab Tractor Dealers

ARIZONA
 Phoenix.....Western Machinery Co.

CALIFORNIA
 Los Angeles.....Smith-Booth-Usher Co.
 San Francisco.....Edward R. Bacon Co.

COLORADO
 Denver.....Western Machinery Co.

UTAH
 Salt Lake City.....Western Machinery Co.

WASHINGTON
 Seattle.....Star Machinery Co.

NATIONAL WELDING EQUIPMENT CO.

218 Fremont Street
 San Francisco 5, California

PRODUCTS: Cutting Outfits—oxy-acetylene; Gauges—pressure, oxygen, acetylene and all other industrial gases; Manifolds—any size, oxygen, acetylene and all non-corrosive cylinder gases, complete; compound pressure, field assembly type, self-supporting, wall and floor types; Regulators—gas, single and two-stage (acetylene, hydrogen, oxygen and other cylinder gases); Torches—cutting, oxy-acetylene, petroleum gas, hand and machine; Torches—welding, oxy-acetylene, heavy, medium, aircraft; Valves—cylinder, needle control; Welding and Cutting Equipment—oxy-acetylene.

Distributors

Distributors from Coast-to-Coast and in all major foreign countries.

NELSON STUD WELDING
 Div. of Gregory Industries, Inc.
 28th Street & Toledo Avenue
 Lorain, Ohio

PRODUCTS: Stud Welders and Fastener Studs; Bridge Shear Connector Studs.

Factory Branch Managers

CALIFORNIA
 Los Angeles—5402 Alhambra Ave...Walter McArthur
 San Leandro—440 Peralta Ave.....Verne Bender
 (Continued in next column)

Nelson Stud Welding (Cont'd)

COLORADO
 Denver—1224 Walnut St.....Ray Lucas

WASHINGTON
 Seattle—2737 First Ave. S.....Hugh S. Howe

Distributors

ARIZONA
 Phoenix.....Consolidated Welding Supply Co.

NEW MEXICO
 Albuquerque.....New Mexico Steel Co.

OREGON
 Portland.....Welders Supply Co.

UTAH
 Salt Lake City.....Industrial Supply Co.

NEO-FLASHER MANUFACTURING CO.
 3210 Valhalla Drive
 Burbank, California

PRODUCTS: Flasher Warning Lights and Barricades for construction uses.

Factory Branches

CALIFORNIA
 Burbank—3210 Valhalla Dr.....Jack Luskin
 Oakland—90 Hegenberger Loop.....Mike Ball

Distributors

ARIZONA
 Phoenix.....Graybar Electric Co.
 McDermott Eqp't. Co.

CALIFORNIA
 Los Angeles.....Acme Industrial Supply Co.
 Graybar Electric Co.
 Oakland.....Graybar Electric Co.
 San Francisco.....Hilp & Rhodes
 Western Traction Co.
 San Jose.....Contractors Equipment Service

COLORADO
 Denver.....King & East Machinery Corp.

MONTANA
 Helena.....Montana Powder & Equipment Co.

OREGON
 Portland.....Cramer Machinery Co.
 Graybar Electric Co.

UTAH
 Salt Lake City.....Graybar Electric Co.

WASHINGTON
 Seattle.....Graybar Electric Co.
 Star Machinery Co.
 Spokane.....Graybar Electric Co.
 Western Machinery Co.

NEW LONDON ENGINEERING CO.
 1700 Division Street
 New London, Wisconsin

PRODUCTS: Conveyors, belt, portable and stationary.

Distributors

ARIZONA
 Phoenix.....The O. S. Stapley Co.
 Western Machinery Co.

CALIFORNIA
 Los Angeles.....Degen-Fiege Co.
 Irving G. King & Co.
 Modern Materials Handling
 Oakland.....Ricker Machinery Co.
 San Francisco.....P. F. O'Donnell Co.
 The Rix Co.
 Santa Clara.....C. F. Smith Equipment & Service

COLORADO
 Denver.....Murray Sales Co.
 Western Machinery Co.
 J. D. Whiting
 Grand Junction.....S & M Supply Co.

MONTANA
 Great Falls.....Monty Machinery Co.

OREGON
 Portland.....Oregon Handling Equipment
 Prentice Material Handling Co.

UTAH
 Salt Lake City.....Equipment Supply Co.
 Lund Machinery Co.

WASHINGTON
 Seattle.....The Carrington Co.
 The Temco Co.

NO-JOINT CONCRETE PIPE CO.
 Colusa Highway
 Yuba City 2, California

PRODUCTS: Machine cast in place concrete pipe for storm drains, irrigation and underground canals.

C. I. T.'s Pay-As-You-Depreciate Plan provides long term financing for Contractors

NOBLE COMPANY
 1860 Seventh Street
 Oakland 20, California

PRODUCTS: Semi-Portable, Stationary and Mobile Cement and Aggregate Batching Plants; Bins; Cement Silos; Conveyors; Elevators; Hoppers; Automatic Plate Handlers.

Regional Managers

CALIFORNIA, (S.W.)
 El Segundo—218 Richmond St. Van Barber
 WASHINGTON
 Seattle—P.O. Box 9046,
 Queen Anne Station. Frank K. Quinn

Distributors

ARIZONA
 Phoenix. Western Machinery Co.
 CALIFORNIA
 Fresno. Edward R. Bacon Co.
 Los Angeles. Smith-Booth-Usher Co.
 Oakland. Noble Company
 Sacramento. Edward R. Bacon Co.
 San Francisco. Edward R. Bacon Co.
 COLORADO
 Denver. Western Machinery Co.
 IDAHO
 Boise. Arnold Machinery Co.
 MONTANA
 Billings. Seitz Machinery Co., Inc.
 S. NEVADA
 (Los Angeles). Smith-Booth-Usher Co.
 N. NEVADA
 (Sacramento). Edward R. Bacon Co.
 NEW MEXICO
 Albuquerque. Contractors' Equipment & Supply
 (El Paso). Border Machinery Co.
 OREGON
 Portland. Clyde Equipment Co.
 UTAH
 Salt Lake City. Arnold Machinery Co.
 WASHINGTON
 (Portland). Clyde Equipment Co.
 Seattle. Star Machinery Co.
 Spokane. Western Machinery Co.
 WYOMING
 Casper. Studer Tractor & Equipment Co.

NORDBERG MANUFACTURING CO.
 3073 South Chase Avenue
 Milwaukee 1, Wisconsin

PRODUCTS: Cone Crushers and Vibrating Screens; Primary Gyratory Crushers; Gyradisc Crushers; Grinding Mills; Rotary Kilns; Mine Hoists; Railway Track Maintenance Machinery; Diesel Engines (10 to 12,800 HP).

Factory Branches

CALIFORNIA
 San Francisco—674 Harrison St. T. D. Davis

Distributors

IDAHO
 Boise. Intermountain Equipment Co.
 OREGON
 Portland. Balzer Machinery Co.
 WASHINGTON
 Seattle. Sahlberg Equipment, Inc.

NORTHWEST ENGINEERING CO.
 135 South LaSalle Street
 Chicago 3, Illinois

PRODUCTS: Shovels; Cranes; Draglines and Pullshovels—crawler and truck mounted.

Factory Branch Managers

CALIFORNIA
 San Francisco—255 10th St. A. G. Crowley
 Vernon—3707 Santa Fe Ave. P. G. Rowe
 WASHINGTON
 Seattle—1234 6th Ave. So. J. L. Tallman

Distributors

CALIFORNIA
 Eureka. Brizard-Matthews Machinery Co.
 Redding. Gerlinger Steel & Supply Co.
 San Diego. Southern Equipment & Supply Co.
 COLORADO
 Denver. Power Equipment Co.
 IDAHO
 Idaho Falls. Arnold Machinery Co., Inc.

(Continued in next column)

Northwest Engineering Co. (Cont'd)

NEVADA
 Reno. Sierra Machinery Co.
 NEW MEXICO
 Albuquerque. Lively Equipment Co.
 OREGON
 Medford. Cal-Ore Machinery Co., Inc.
 Portland. Balzer Machinery Co.
 UTAH
 Salt Lake City. Arnold Machinery Co., Inc.
 WASHINGTON
 Spokane. General Machinery Co.
 Wenatchee. Mid-State Truck & Machinery Co.
 WYOMING
 Casper. Moss Equipment & Supply

NOVO PUMP & ENGINE CO.
 702 Porter Street
 Lansing 5, Michigan

PRODUCTS: Diaphragm and Pressure Pumps; Hoists; Pavement Breakers; Speed Reducers; Steam & Power Pumps.

Distributors

CALIFORNIA
 Los Angeles. Garlinghouse, Fremont, Inc.
 COLORADO
 Denver. Air Rentals, Inc.
 IDAHO
 (Salt Lake). Heiner Equipment & Supply Co.
 UTAH
 Salt Lake City. Heiner Equipment & Supply Co.
 WYOMING
 (Denver). Air Rentals, Inc.
 (Salt Lake). Heiner Equipment & Supply Co.

OLIVER CORP.
 400 West Madison Street
 Chicago 6, Illinois

PRODUCTS: Crawler and Wheel Tractors (Gas and Diesel) with allied equipment.

Factory Branches

CALIFORNIA
 Oakland—1066 47th Ave. G. M. Blow
 OREGON
 Portland—130 SE Morrison. D. Whittington

Regional Sales Manager

CALIFORNIA
 Oakland—1066 47th Ave. C. R. Hunt

Distributors

ALASKA
 Anchorage. Bashaw Equipment
 Fairbanks. Artic Eqt. & Mach. Co., Inc.
 Herning Equipment Co.
 ARIZONA
 Phoenix. Arizona Equipment Sales, Inc.
 CALIFORNIA
 Bakersfield. Motor Truck Sales & Service Co.
 Blythe. Munson Equipment Co.
 Colton. Condosta Tractor Co.
 Cotati. The H-C Equipment Co.
 Eureka. Rogers Machinery Co., Inc.
 Lancaster. Robertson Implement Co.
 Napa. Ritz Equipment Co.
 Porterville. Farmers Equipment & Tractor Co.
 San Diego. Keaton Equipment Co.
 San Jose. M.F.D., Inc.
 San Leandro. M.F.D., Inc.
 Stockton. H & M Tractor Co.
 Tustin. Schneider Tractor Co.
 COLORADO
 Denver. Liberty Trucks & Parts Co.
 Pueblo. Colorado Road Machinery Co.
 IDAHO
 Boise. Engineering Sales Service, Inc.
 MONTANA
 Helena. Caird Engineering Works
 NEVADA
 Whitney. Western Tractor Sales
 NEW MEXICO
 Albuquerque. N. C. Ribble Co.
 OREGON
 Albany. Herold & Jensen Implement Co.
 Corvallis. Herold & Jensen Implement Co.
 Portland. Oregon Tractor & Equipment Co.
 Salem. A. C. Haag Co.
 UTAH
 Salt Lake City. Arnold Machinery Co., Inc.
 WASHINGTON
 Chehalis. Buck & Son Farm Equipment Co.
 Seattle. Fray Equipment Co.
 Spokane. Inland Diesel & Machinery Co.
 Walla Walla. Melcher-Ray Machinery Co.

OMARK INDUSTRIES, INC.
 9701 S.E. McLoughlin Blvd.
 Portland 22, Oregon

PRODUCTS: Powder Actuated Tools and Drive Pins for fastening building material to concrete or steel; Hammer Drives and Quick Drives—Hammer Powered Stud Drivers for fastening light building material to concrete or steel.

Distributors

ALASKA
 Anchorage. Callber Equipment Co.
 ARIZONA
 Phoenix. Arizona Welding Equipment Co.
 Tucson. Aweco Supply Co.
 CALIFORNIA
 Bakersfield. McCarthy Tank & Steel Co.
 Long Beach. Lawson Supply Co.
 Los Angeles. Concrete Tie & Anchor Co.
 The Hubbard Co.
 K & K Construction Co.
 Rental Yard Supply Corp.
 West Coast Industrial Sales Co.
 Pasadena. Shepherd Sales Co.
 Pomona. Shepherd Sales Co.
 San Diego. Construction Tool & Supply Co.
 San Francisco. West Coast Industrial Sales Co.
 COLORADO
 Colorado Springs. Bishop-Hill Tool & Paint Co.
 Denver. Gates & Sons, Inc.
 NEW MEXICO
 Albuquerque. W. J. Burke & Co.
 Electric Supply Co.
 Welsh-Erwin Corp.
 OREGON
 Portland. A & W Sales Co.
 K. L. Tamiesie & Co.
 West Pacific Sales Co.
 UTAH
 Salt Lake City. T. C. Stayner Co.
 Mark A. Stokes Co.

D. W. ONAN & SONS, INC.
 University Avenue Southeast & 25th
 Minneapolis 14, Minnesota

PRODUCTS: Electric Generating Plants; Gasoline Engines; Separate Generators; Diesel Engines; Truck Cab Air Conditioners.

Zone Managers

CALIFORNIA
 Palo Alto—1588 Edgewood Dr. Frank Germand
 COLORADO
 Denver—2800 Tennyson St. Les LeLande

Distributors

ARIZONA
 Nogales. Commercial Distributors
 Phoenix. Equipment Sales Co.
 CALIFORNIA
 Monterey. Ets Hokin & Galvan
 Oakland. Ets Hokin & Galvan
 San Diego. Ets Hokin & Galvan
 San Francisco. Ets Hokin & Galvan
 Stockton. Ets Hokin & Galvan
 Wilmington. Ets Hokin & Galvan
 COLORADO
 Denver. B. K. Sweeney Co.
 MONTANA
 Billings. Great Northern Tool & Supply
 Cutbank. Great Northern Tool & Supply
 Great Falls. Brack Motor Supply
 Helena. Brack Motor Supply
 Missoula. Treasure State Machinery Co.
 NEW MEXICO
 Albuquerque. Industrial Supply Co.
 OREGON
 Portland. Sparks Willis, Inc.
 UTAH
 Salt Lake City. Motor Mercantile Co.
 WASHINGTON
 Seattle. Fremont Electric Co.
 WYOMING
 Casper. Power Service, Inc.

OSHKOSH MOTOR TRUCK, INC.
 2300 Oregon Street
 Oshkosh, Wisconsin

PRODUCTS: 4 and 6 Wheel Drive Trucks.

Sales Representative

CALIFORNIA
 Saratoga—18377 Purdue Dr. R. O. Fredrick
 (Continued on next page)

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
 Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
 Equitable Building, Portland

Yukon Motor Truck, Inc. (Cont'd)**Distributors**

ALASKA
(Seattle).....Yukon Equipment, Inc.
ARIZONA
Phoenix.....Arizona Equipment Sales, Inc.
CALIFORNIA
Los Angeles.....LeRoi-Rix Machinery Co.
San Francisco.....Coast Equipment Co.
Engs Motor Truck Co.
COLORADO
Denver.....Liberty Truck & Parts Co.
IDAHO
Boise.....Engineering Sales & Service, Inc.
MONTANA
Billings.....Western Construction Equipment Co.
NEVADA
Reno.....Graid Equipment Co.
NEW MEXICO
Albuquerque.....N. C. Ribble Co.
OREGON
Portland.....Contractors Equipment Corp.
UTAH
Salt Lake City.....Arnold Machinery Co.
WASHINGTON
Seattle.....Totem Equipment Co.
WYOMING
Cheyenne.....Keremi Tractor & Equipment Co.

OTTAWA STEEL DIVISION

Young Spring & Wire Corp.
435½ South Main Street
Ottawa, Kansas

PRODUCTS: Hydraulic Front End Loaders and Backhoes (Tractor Attachments); Self-Propelled Hydraulic Concrete Breaker, Asphalt Cutter, Backfill Tamper; Combination Backhoe-Loader-Tamper Machines; Outdoor Type Fork Lift Tractor; Multiple Reel Trailer (Utility and Telephone Cable Reels).

Factory Representative

CALIFORNIA
Glendale—1322 N. Central.....Arlie J. Simmonds

Distributors

ARIZONA
Phoenix.....Western Machinery Co.
CALIFORNIA
Los Angeles.....Smith-Booth-Usher Co.
San Francisco.....Edward R. Bacon Co.
South Gate.....Hydraulic Tool & Equipment Co.
COLORADO
Denver.....Machinery Mart, Inc.
Western Machinery Co.
IDAHO
Boise.....Intermountain Equipment Co.
Starline Equipment Co.
MONTANA
Billings.....Seitz Machinery Co.
Bozeman.....Seitz Machinery Co.
Great Falls.....Seitz Machinery Co.
NEW MEXICO
Albuquerque.....J. D. Coggins Co.
OREGON
Portland.....Western Equipment Co.
UTAH
Salt Lake City.....Kimball Equipment Co.
WASHINGTON
Seattle.....Howard-Cooper Corp.
Star Machinery Co.
Spokane.....American Machine Co.
Western Machinery Co.
WYOMING
Casper.....Keremi Tractor & Equipment Co.
Cheyenne.....Keremi Tractor & Equipment Co.

OVERSTROM & SONS

2213 West Mission Road
Alhambra, California

PRODUCTS: Vibrating Screens and Grizzlies.

Distributors

ALASKA
(Seattle).....Washington Machinery Co.
ARIZONA
Phoenix.....O. S. Stapley Co.
CALIFORNIA
Berkeley.....West Coast Engine & Equipment Co.
MONTANA
Missoula.....Miller Machinery Co.
NEVADA
Reno.....Sierra Machinery Co.
UTAH
Salt Lake City.....Lund Machinery Co.
WASHINGTON
Seattle.....Washington Machinery Co.

OWEN BUCKET CO.

6001 Breakwater Avenue
Cleveland 2, Ohio

PRODUCTS: Clamshell Buckets and Grapples.

Factory Branch

CALIFORNIA
Berkeley—2nd and Gilman Sts.....E. L. Kelzer

Distributors

ALASKA
Anchorage.....Yukon Equipment, Inc.
Fairbanks.....Yukon Equipment, Inc.
ARIZONA
Phoenix.....Any crane and shovel distributor
CALIFORNIA
Los Angeles.....Santa Fe Equipment Co.
COLORADO
Denver.....Any crane and shovel distributor
Grand Junction.....Any crane and shovel distributor
IDAHO
Boise.....Intermountain Equipment Co.
NEVADA
Reno.....Any crane and shovel distributor
NEW MEXICO
Albuquerque.....Contractors Equipment & Supply
OREGON
Portland.....Clyde Equipment Co.
UTAH
Salt Lake City.....Any crane and shovel distributor
WASHINGTON
Seattle.....A. H. Cox & Co.
Spokane.....Intermountain Equipment Co.
WYOMING
Cheyenne.....Any crane and shovel distributor

OWL-LITE PACIFIC

P.O. Box 583
San Jose 6, California

PRODUCTS: Electric Warning Flasher Lights; Construction Warning Barricades; Portable "long-life" Traffic Control Signals.

PACIFIC CAR & FOUNDRY COMPANY

Fourth and Factory
Renton, Washington

PRODUCTS: Tractor Hoists and Winches; Logging Arches; Log Carts; Rigging Fittings; Ship Repair; Structural Fabrication and Erection of all kinds; Forgings; Castings; Military Vehicles; Refrigerator Cars; Commercial Galvanizing; Heat Treating; Machining.

Distributors

ALL PRINCIPAL TRACTOR DEALERS IN ALL STATES

PACIFIC MERCURY MFG. CORP.

14052 Burbank Blvd.
P.O. Box 190
Van Nuys, California

PRODUCTS: Electric Generator Sets; Mobile Flood-lighting Plants for heavy construction applications; Highway Warning Flasher Lights and Barricades, neon and incandescent types; Concrete Vibrators (internal).

Factory Branch Manager

CALIFORNIA
San Jose—921 Princess Ann Dr.....V. Holland

Field Engineers

CALIFORNIA
Van Nuys—14052 Burbank Blvd.....J. French
I. Mahoney

Distributors

CALIFORNIA
Alhambra.....J & R Engine & Supply Co.
Burlingame.....Industrial Inspection & Supply Co.
Eureka.....Eureka Boiler Works
Fresno.....Contractors Equipment & Supply Co.
Inglewood.....C. P. Concrete Equipment Co., Inc.
Kingsburg.....Olsen Bros. Mfg. Co.
Long Beach.....Gaines Electric Supply Co.
Star Equipment Co.

(Continued in next column)

Pacific Mercury Mfg. Corp. (Cont'd)

Los Angeles.....Albro Fire Equipment Co.
Electric Tool & Supply Co.
Sentry Electric Co.
Sweinhart Equipment Sales, Inc.
Western Tool Distributors, Inc.
Modesto.....Stanislaus Implement & Hardware Co.
Napa.....Electro Flasher Co.
Oakland.....Dependable Machinery Co., Inc.
Oxnard.....Maulhardt Equipment Co.
Sacramento.....Sacramento Machinery Co.
San Diego.....C.S.D. of San Diego
Spring & Brake Works, Inc.
San Francisco.....Western Fire Equipment Co.
San Gabriel.....F. Morton Pitt Co.
COLORADO
Denver.....C & C Tire & Supply Co.
NEVADA
Las Vegas.....Inland Service & Supply Corp.
Reno.....Nevada Fire Extinguisher Co.
OREGON
Eugene.....George A. Halton Co., Inc.
Portland.....Western Fire Equipment Co.
UTAH
Salt Lake City.....Rasmussen Equipment & Supply Co.

PACIFIC PUMPING CO.

9201 San Leandro Street

Oakland 3, California

PRODUCTS: Pumps, Power.

Factory Branches

CALIFORNIA
Los Angeles—1020 S. Atlantic Blvd.....R. H. Franklin
OREGON
Portland—526 NW Broadway.....S. B. Huntington
WASHINGTON
Seattle—114 W. Harrison St.....Burt Nelson

Sales Engineers

COLORADO
Denver—P. O. Box 119.....R. C. Beauchamp
WASHINGTON
Spokane—10510 E. 20th Ave.....R. O. Haneberg

Distributors

ARIZONA
Phoenix.....Arizona Pump & Supply Co.
Bloomquist Pump Service
Keenan Pipe & Supply Co.
Phoenix Pipe & Supply Co.
COLORADO
Denver.....Colorado Pump & Supply Co.
Hendrie & Bolthoff Co.
Mine & Smelter Supply Co.
Waukesha Engine & Equipment Co.
NEW MEXICO
Albuquerque.....Waukesha Engine & Equipment Co.
NEVADA
Reno.....Crane Co.
Record Supply Co.
OREGON
Eugene.....Tillman-Booth Co.
Portland.....Consolidated Supply Co.
Crane Co.
UTAH
Salt Lake City.....Abco-Pacific, Inc.
The Galigher Co.
J. Henry Jones Co.
WASHINGTON
Seattle.....Consolidated Supply Co.
Crane Co.
Grinnel Co.
Seattle Plumbing Supply
Spokane.....Crane Co.
Dickerson Machinery Co.
Walla Walla.....Ault Irrigation
Wenatchee.....Reid Pump & Supply
Yakima.....Schichtl Brothers

PACIFIC WIRE ROPE CO.

1840 East 15th Street

Los Angeles 21, California

PRODUCTS: Wire Rope and Galvanized Strand.

Factory Branch Managers

CALIFORNIA
Berkeley—607 Addison St.....Jean Kleugel
OREGON
Portland—3615 NW St. Helens.....James K. Mosser

Order Service Department

CALIFORNIA
Los Angeles—1840 E. 15th St.....N. Graham, Mgr.
(Continued on next page)

C. I. T.'s Pay-As-You-Depreciate Plan permits payments out of depreciation

Pacific Wire Rope Co. (Cont'd)

Distributors

ALASKA
Anchorage.....Evans Engine & Equipment Co.
Ketchikan.....Tongass Trading Co.
ARIZONA
Phoenix.....Superior Equipment Co.
Tractor Parts & Supply Co.
Safford.....Don Pace
Tucson.....Bob Barrett
Wellton.....Braden Machinery Co.
Yuma.....Braden Machinery Co.

CALIFORNIA

Arcata.....Munnell & Sherrill of California
Fort Bragg.....Lilley's Building Supplies
Fortuna.....Johnson Bros. Machine Shop
Garberville.....Armfield Machine Shop
Quincy.....Feather River Auto Parts
Santa Cruz.....Sweet Service Co.
Ukiah.....Munnell & Sherrill of California

NEVADA

Pallion.....Bernie Spencer Industrial Sales & Service
Las Vegas.....Blystone Equipment Co. of Nevada

NEW MEXICO

Albuquerque.....C. E. Mitcham Co.
Grants.....Nellis Supply Co.
Lordsburg.....Southwest Supply Co.
Roswell.....Armstrong & Armstrong

OREGON

Coos Bay.....Loggers Supply Co.
Medford.....Rogue Equipment Sales Co.
Roseburg.....Flury Supply Co.
Springfield.....Roberts Supply Co.
Sweet Home.....Sherman Supply Co.

UTAH

Salt Lake City.....Holland Equipment Co.

WASHINGTON

Bellingham.....Powder Sales & Equipment Co.

PAGE ENGINEERING CO.

Clearing Post Office
Chicago 38, Illinois

PRODUCTS: Walking Draglines, Automatic Dragline Buckets; Chain and Bucket Accessories, including TWIN-PIN Connecting Link.

Distributors

ARIZONA
Phoenix.....Western Machinery Co.
CALIFORNIA
Los Angeles.....Brown-Bevis Industrial Ept. Co.
Cook Bros. Equipment Co.
Smith-Booth-Usher Co.
Oakland.....The Brose Co.
San Francisco.....Edward R. Bacon Co.
Coast Equipment Co.
Robinson Equipment Co.
Standard Machinery Co.
Moore Equipment Co.
Stockton.....Stockton Iron Works
COLORADO
Denver.....Booth-Rouse Equipment Co.
Colorado Builders Supply Co.
Faris-Moritz Supply Co.
Tudor Equipment Co.
Liberty Trucks & Parts Co.
H. W. Moore Equipment Co.
McCoy Company
McKelvy Machinery
Power Equipment Co.
Western Machinery Co.
IDAHO
Boise.....Intermountain Equipment Co.
The Sawtooth Co.
Idaho Falls.....Southern Idaho Equipment Co.
Pocatello.....Flaherty Mfg., Inc.
MONTANA
Billings.....Hall-Perry Machinery Co.
Industrial Equipment Co.
Montana Powder & Equipment Co.
Western Construction Equipment Co.
Seitz Machinery Co., Inc.
Butte.....Hall-Perry Machinery Co.
Pioneer Equipment & Supply Co.
Great Falls.....Central Machinery Co.
Hall-Perry Machinery Co.
Normont Equipment Co.
Steffek Equipment Co.
Helena.....Hall-Perry Machinery Co.
Miller Machinery Co.
Missoula.....Mountain Tractor Co.
Westmont Tractor & Ept. Co.
NEW MEXICO
Albuquerque.....Contractors Equipment & Supply Co.
Harry Cornelius Co.
OREGON
Portland.....Balzer Machinery Co.
Feenaghty Machinery Co.
Howard-Cooper Corp.
Nelson Equipment Co.

(Continued on next page)

Page Engineering Co. (Cont'd)

UTAH

Salt Lake City.....Arnold Machinery Co.
Foulger Equipment Co.
Holland Equipment Co.
Lang Construction Equip. Co.
H. H. Nielson Co.
Western Machinery Co.
Wheeler Machinery Co.

WASHINGTON

Seattle.....A. H. Cox & Co.
Star Machinery Co.
Yukon Equipment Co.
Spokane.....Andrews Equipment Co.
Modern Machinery Co.

WYOMING

Casper.....Kerem Tractor & Equipment Co.
Studer Tractor & Equipment Co.
Cheyenne.....Wilson Equipment & Supply Co.
Worham Machinery Co.
Greybull.....Nash-Davis Machinery Co.

THE PARSONS COMPANY

200 North 8th Avenue East
P.O. Drawer 431
Newton, Iowa

PRODUCTS: Trenchliners and Trenchmobile (Ditchers and Trenchers).

Factory Branch

CALIFORNIA

Stockton.....Koehring Co. of California
Manager—R. L. Gebhard, 2200 Country Club Blvd.

District Representatives

Stockton—2200 Country Club Blvd.....H. R. Powers
H. Perry

Distributors

ARIZONA
Phoenix.....Nell B. McGinnis Equipment Co.
CALIFORNIA
Los Angeles.....Harron, Rickard & McCone Co.
San Francisco.....Standard Machinery Co.
Stockton.....Action Equipment Co.
COLORADO
Denver.....Colorado Builders' Supply Co.
IDAHO
Boise.....Engineering Sales Service, Inc.
MONTANA
Billings.....Western Construction Machinery Co.
Great Falls.....Western Construction Equipment Co.
NEW MEXICO
Albuquerque.....Harry Cornelius Co.
OREGON
Portland.....Columbia Equipment Co.
UTAH
Salt Lake City.....Kimball Equipment Co.
WASHINGTON
Seattle.....Pacific Holst & Derrick Co.
Spokane.....American Machine Co.
WYOMING
Casper.....Colorado Builders' Supply Co.

PASCOE STEEL CORP.

1301 E. Lexington, P.O. Box 1368
Pomona, California

PRODUCTS: Prefabricated Steel or Aluminum Buildings; Sliding and Folding Wardrobe Doors; Hopper Trailers.

Distributors

ARIZONA
Phoenix.....Young Steel Buildings
CALIFORNIA
El Centro.....W. H. Douthitt Steel & Supply
Eureka.....Jones & Majors
Fresno.....L. B. Pipes Co.
Sacramento.....E. L. Welter
San Diego.....C. L. Cross
San Leandro.....Gen-Cal Co.
Woodland.....C. Don Huff, Jr.
Yuba City.....Vernon Hacker
COLORADO
Denver.....Central Steel & Supply
Grand Junction.....Mesa Pipe & Bridge Co.
IDAHO
Boise.....Gate City Steel, Inc.
MONTANA
Billings.....Roscoe Steel & Culvert Co.
Butte.....Construction Materials Co.
NEVADA
Reno.....Meredith Steel Construction Co.
WASHINGTON
Seattle.....Leckenby Structural Steel Co.

THE PATENT SCAFFOLDING CO., INC.

38-21 12th Street
Long Island City 1, New York

PRODUCTS: All types of Steel and Aluminum Scaffolds; Steel Shoring for concrete construction.

Factory Branches

CALIFORNIA

Los Angeles—6931 Stanford Ave.....D. E. Kaye
San Francisco—1695 Mission St.....R. B. Berg

WASHINGTON

Seattle—420 Eighth Ave N.....J. J. Wilbur

Distributors

ARIZONA
Phoenix.....Superior Equipment Co.
CALIFORNIA
Fresno.....Ray Wayne
N. Sacramento.....Capitol Scaffolding & Equipment Co.
San Diego.....Squires-Belt Material
San Jose.....Borchers Bros.
COLORADO
Colorado Springs.....Crissey Fowler Lumber Co.
Denver.....The United Materials Co.
IDAHO
Boise.....Boise Concrete Specialties Co.
Idaho Falls.....Messenger Masonry Supply Co.
MONTANA
Billings.....Economy Masonry Co.
Great Falls.....Madden Constr. Supply Co., Inc.
Missoula.....M & S Ready Mix Co.
NEVADA
Las Vegas.....Contractors Service Co.
OREGON
Portland.....James A. C. Tait Co.
Salem.....Reiner Masonry & Scaffold Co.
UTAH
Salt Lake City.....Standard Builders' Supply Co.

WASHINGTON

Spokane.....Allied Industries, Inc.
Tacoma.....Evergreen-Stone Co.
Wenatchee.....Columbia Concrete Pipe Co.
Yakima.....Johnny's Rental Service, Inc.

PEERLESS PUMP DIVISION

Food Machinery & Chemical Corp.
301 West Avenue 26
Los Angeles, California

PRODUCTS: Pumps, all types.

Factory Branches

ARIZONA
Phoenix—Manager.....H. L. Drew
CALIFORNIA
Bakersfield—Manager.....Holly Stanford
Fresno—Manager.....Del Crummay
San Francisco—9 First St.....S. C. Hoepfner
NEW MEXICO
Albuquerque—Manager.....Max Maurer
DISTRICT MANAGER
Los Angeles—301 W. Ave. 26.....R. H. Hill
PERFECTION STEEL BODY CO.
South East Street
Galion, Ohio
PRODUCTS: Perfection-Dump, Stake, Contractors', Coal and Coke, Drop Side, Steel Platform, Aluminum and Special Purpose Truck Bodies; Trailer Bodies; Hydraulic Hoists; Farm Booster Type Hoists; Hydraulic Lift End Gates (Minute Man); Two Wheel Trailers; Wagons; Soil Pulverizers.
DEALERS IN ALL PRINCIPAL CITIES

PERFECTION STEEL BODY CO.

South East Street
Galion, Ohio

PRODUCTS: Perfection-Dump, Stake, Contractors', Coal and Coke, Drop Side, Steel Platform, Aluminum and Special Purpose Truck Bodies; Trailer Bodies; Hydraulic Hoists; Farm Booster Type Hoists; Hydraulic Lift End Gates (Minute Man); Two Wheel Trailers; Wagons; Soil Pulverizers.

Distributors

ARIZONA
Phoenix—Manager.....H. L. Drew
CALIFORNIA
Bakersfield—Manager.....Holly Stanford
Fresno—Manager.....Del Crummay
San Francisco—9 First St.....S. C. Hoepfner
NEW MEXICO
Albuquerque—Manager.....Max Maurer

District Manager

Los Angeles—301 W. Ave. 26.....R. H. Hill

PERFECTION STEEL BODY CO.

South East Street
Galion, Ohio

PRODUCTS: Perfection-Dump, Stake, Contractors', Coal and Coke, Drop Side, Steel Platform, Aluminum and Special Purpose Truck Bodies; Trailer Bodies; Hydraulic Hoists; Farm Booster Type Hoists; Hydraulic Lift End Gates (Minute Man); Two Wheel Trailers; Wagons; Soil Pulverizers.

Distributors

ARIZONA
Phoenix—Manager.....H. L. Drew
CALIFORNIA
Bakersfield—Manager.....Holly Stanford
Fresno—Manager.....Del Crummay
San Francisco—9 First St.....S. C. Hoepfner
NEW MEXICO
Albuquerque—Manager.....Max Maurer

PERMANENTE CEMENT CO.

1924 Broadway
Oakland 12, California

PRODUCTS: Cement (all standard and special types).

Factory Branch Managers

CALIFORNIA

Permanente.....J. I. Walker
Lucerne Valley (Cushenbury Plant).....J. G. Hansen

WASHINGTON

Bellingham (Olympic Cement Co.).....H. M. Krabbe

(Continued on next page)

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
Equitable Building, Portland

ermanente Cement Co. (Cont'd)**Division Sales Managers**

ALIFORNIA (S)
Los Angeles—
National Oil Bldg., 609 S. Grand..C. W. McKinley
ALIFORNIA (N)
Oakland—1924 Broadway.....J. V. Janse
San Francisco (Contractor Sales)—
Russ Bldg.....C. C. Moore
AWAII
Honolulu—P.O. Box 79.....F. R. Justice

Sales Representatives

LASKA
Anchorage—P.O. Box 1698.....H. M. Fisher
REGON
Portland—931 N. River St.....D. S. Ashton

PETERBILT MOTORS CO.
10700 MacArthur Blvd.
Oakland 5, California

PRODUCTS: Custom Built Heavy Duty Motor Trucks,
including on and off highway models; Mac-
Donald Division—Low Body Trucks; Con-
verter Bodies and Lift Trucks.

Factory Branch

ALIFORNIA
San Francisco—757 Folsom St.

Distributors

ALIFORNIA
Fresno.....Connell Motor Truck Co.
Los Angeles.....Motor Truck Distributors Co.
San Jose.....Coast Counties Truck & Eqt. Co.
Sacramento—Paris.....Brown's Truck Supply Co.
Stockton.....Connell Motor Truck Co.

OLORADO
Denver.....Kaer Truck & Equipment Co.

DAHO
Boise.....Glenn Dick Equipment Co.

EW MEXICO
Albuquerque.....Transportation Equipment, Inc.

REGON
Portland.....Automotive Equipment Co.

TAH
Salt Lake City.....Peterbilt Truck Sales Co.

WASHINGTON
Seattle.....Northwest Truck Sales, Inc.
Spokane.....Inland Diesel & Machinery Co.

PETTIBONE MULLIKEN CORP.
4700 W. Division Street
Chicago 51, Illinois

PRODUCTS: Motor Graders; Tractor Shovels; Speed
Swing Loaders; Yard Cranes; Bucket Load-
er Loaders; Fork and Bucket Loaders;
Material Handling Buckets; Clamshell,
Dragline, Pulshovel Dippers and Shovel
Dippers; Manganese Steel Castings; Con-
veyors; Feeders; Shovels, Backhoe; Snow
Plows.

Factory Branch

ALIFORNIA
N. Hollywood—6900 Tujunga Ave....Cecil Rafferty

Western Regional Manager

ALIFORNIA
San Francisco—593 Market St.....A. Ainlay

District Managers

ALIFORNIA
San Francisco—593 Market St.....Frank Boufford
Concord—1254 Linden Dr.....Irv. H. McGinnis

WASHINGTON
Spokane—2908 Princeton Ave.....Lee Gillette

Distributors

ARIZONA
Phoenix.....Southwest Equipment Co.

ALIFORNIA
Bakersfield.....Inland Equipment Co.

Redding.....Shasta Machinery Sales
San Diego.....Kenton Equipment Co.

COLORADO
Denver.....Liberty Trucks & Parts Co.

DAHO
Boise.....Starline Equipment Co.

MONTANA
Helena.....Montana Powder & Equipment Co.

(Continued in next column)

Pettibone Mulliken Corp. (Cont'd)

NEVADA
Reno.....The Roeder Equipment Co.
Sierra Machinery Co., Inc.

NEW MEXICO
Albuquerque.....Southwest Equipment Co.

OREGON
Eugene.....Loggers & Contractors Machinery Co.

Portland.....Loggers & Contractors Machinery Co.

UTAH
Salt Lake City.....Arnold Machinery Co.

Rocky Mountain Machinery Co.

WASHINGTON
Seattle.....Western Tractor & Equipment Co.

Spokane.....Andrews Equipment Service

PETTIBONE MULLIKEN CORP.

Pettibone New York Div.
1212 E. Dominick Street
Rome, New York

PRODUCTS: Clamshell Buckets; Bucket Loaders; Con-
veyors; Graders.

Regional Manager

CALIFORNIA
San Francisco—593 Market St.....Alex Ainlay

District Managers

CALIFORNIA
Concord—1254 Linden Dr.....I. H. McGinnis

San Francisco—593 Market St.....F. Boufford

WASHINGTON
Spokane—2908 W. Princeton.....Lee Gillette

Distributors

ARIZONA
Phoenix.....Southwest Equipment Co.

CALIFORNIA
San Diego.....Kenton Equipment Co.

COLORADO
Denver.....Liberty Trucks & Parts Co.

DAHO
Boise.....Arnold Machinery Co., Inc.

MONTANA
Helena.....Montana Powder & Equipment Co.

NEVADA
Reno.....Roeder Equipment Co.

NEW MEXICO
Albuquerque.....Southwest Equipment Co.

UTAH
Salt Lake City.....Arnold Machinery Co.

WASHINGTON
Spokane.....Andrews Equipment Service

PETTIBONE WOOD MFG. CO.

6900 Tujunga Avenue
North Hollywood, California

PRODUCTS: Roadmixers; P-600 Series Pulverizers;
Speedmixers; Spreader Boxes; Windrow
Proportioners; Cement Bazooskas; Cement
Bulkers; Tank Trailers.

Regional Manager

CALIFORNIA
San Francisco—593 Market St.....A. Ainlay

District Managers

CALIFORNIA
Concord—1254 Linden Dr.....I. H. McGinnis

San Francisco—593 Market St.....Frank Boufford

WASHINGTON
Spokane—2908 W. Princeton Ave.....Lee Gillette

Distributors

ARIZONA
Phoenix.....Equipment Sales Co.

CALIFORNIA
Oakland.....Spears-Wells Machinery Co.

COLORADO
Denver.....H. W. Moore Equipment Co.

DAHO
Boise.....Arnold Machinery Co.

MONTANA
Helena.....Montana Powder & Equipment Co.

NEVADA
Reno.....Sierra Machinery Co., Inc.

NEW MEXICO
Albuquerque.....Harry Cornelius Co.

OREGON
Portland.....Loggers & Contractors Machinery Co.

UTAH
Salt Lake City.....Arnold Machinery Co.

WASHINGTON
Spokane.....Modern Machinery Co., Inc.

PHOENIX PRODUCTS CO.

4715 North 27th Street
Milwaukee 9, Wisconsin

PRODUCTS: Heavy Duty Floodlights for long lamp life
under shock and vibration conditions.

Distributors

CALIFORNIA
Fresno.....Morrison Walsh Perini

San Francisco.....California Electric Supply Co.

Stockton.....Connell Motor Truck Co.

COLORADO
Denver.....C & C Tire & Supply Co.

DAHO
Boise.....General Electric Supply Co.

Westinghouse Electric Supply Co.

MONTANA
Great Falls.....Cascade Electric Co.

NEVADA
Reno.....Gardner Automotive Parts

OREGON
Portland.....Clyde Equipment Co.

UTAH
Ogden.....Morrison-Knudsen Co.

WASHINGTON
Seattle.....North Coast Electric Co.

Spokane.....Jensen-Byrd Co.

PIONEER ENGINEERING
DIVISION OF POOR & COMPANY
3200 Como Avenue
Minneapolis 14, Minnesota

PRODUCTS: Jaw Crushers; Roll Crushers; Impact
Crushers; Vibrating Screens; Revolving
Screens; Conveyors; Feeders; Portable and
Stationary Gravel and Quarry Plants;
Washing Plants; Mines Equipment; Ce-
ment Plant Equipment; Bituminous Mix-
ing Plants; Bituminous Pavers.

District Representatives

COLORADO
Denver—2091 Jasmine St.....Elton T. Fair

OREGON
Portland—2145 NE Hancock.....Wm. H. Schanpen

Distributors

ARIZONA
Phoenix.....Nell B. McGinnis Equipment Co.

CALIFORNIA
Los Angeles.....Cook Bros. Construction Equipment Co.

Oakland.....Cook Bros. Truck & Equipment Co.

COLORADO
Denver.....The Colorado Builders Supply Co.

DAHO
Boise.....Feenaughty Machinery Co.

MONTANA
Billings.....Industrial Equipment Co.

Great Falls.....NorMont Equipment Co.

Kalispell.....Westmont Tractor

Missoula.....Westmont Tractor

NEVADA
Elko.....A-D Machinery Co., Inc.

Las Vegas.....A-D Machinery Co., Inc.

NEW MEXICO
Albuquerque.....Lively Equipment Co.

OREGON
Portland.....Feenaughty Machinery Co.

UTAH
Salt Lake City.....Cate Equipment Co.

WASHINGTON
Seattle.....Feenaughty Machinery Co.

Spokane.....Feenaughty Machinery Co.

WYOMING
Casper.....The Colorado Builders Supply Co.

PITMAN MANUFACTURING CO.
300 West 79th Terrace
Kansas City 14, Missouri

PRODUCTS: Truck Mounted Cranes (Hydra-Lift and
Model 80); Aerial Platforms with 40 ft.,
50 ft. and 65 ft. working heights; Self-
Propelled Aerial Platforms with 18 ft.
working height.

District Representative

CALIFORNIA
San Mateo—1789 Borden Ave.....Steve Zorro

Distributors

ARIZONA
Phoenix.....Western Machinery Co.

(Continued on next page)

**C. I. T. provides experienced financing for
Distributors and Contractors**

The Prime-Mover Co. (Cont'd)

Fresno.....	Edward R. Bacon Co.
Los Angeles.....	Smith-Booth-Usher Co.
Oakland.....	Edward R. Bacon Co.
Sacramento.....	Edward R. Bacon Co.
San Francisco.....	Edward R. Bacon Co.

(Continued in next column)

NEW MEXICO	
Albuquerque.....	J. D. Coggins Co.
NEVADA	
Reno.....	Pioneer Equipment Co.
OREGON	
Eugene.....	Loggers & Contractors Mch. Co.
Portland.....	Loggers & Contractors Mch. Co.
UTAH	
Salt Lake City.....	Rocky Mountain Machinery Co.
WASHINGTON	
Seattle.....	Universal Equipment Co.
Spokane.....	Safway Scaffold, Inc.
WYOMING	
(Salt Lake).....	Rocky Mountain Machinery Co.

Cheyenne.....Keremi Tractor & Equipment Co.

(Continued on next page)

Published by WESTERN CONSTRUCTION

Amset Fastening System (Cont'd)

Salinas.....Electric Supply of Salinas
 San Diego.....Powder Actuated Tools, Inc.
 San Francisco.....Elder Construction Supply Co.
 San Jose.....Esco Sales Company
 Power Tool Mart
 Santa Ana.....V. B. Anderson Co.
 W. Compton.....Thieme Construction Supplies
 Whittier.....Anderson Equipment Co.

COLORADO

Colorado Springs.....Colorado Springs Supply Co.
 Everett Lumber Co.
 Denver.....Landes, Zachary & Peterson
 Central Electric Supply
 M. L. Foss, Inc.
 Unlon Supply Co.
 Grand Junction.....Pacific & Western Industrial Sply.
 Pueblo.....Johnson Electric Co.
 Pueblo Electric Supply

IDAHO

Boise.....Safway Scaffold & Power Tool Co.
 Idaho Falls.....Arnold Machinery Co., Inc.
 Twin Falls.....Mid-State Supply Co.
 Wallace.....Gardner Supply Co.

MONTANA

Billings.....Madden Construction Supply Co.
 Butte.....Construction Materials Co.
 Great Falls.....Fall Supply Co.
 Havre.....Treasure State Supply
 Helena.....Hanley Glass & Paint
 Livingston.....Builders Machinery Co.
 Missoula.....Hub Electric Supply
 Missoula Mercantile Co.

NEVADA

Reno.....Kitchen Electric Supply

NEW MEXICO

Albuquerque.....Contractors Equipment & Supply
 Equipment Rental & Sales Co.
 Carlsbad.....Santa Fe Builders Supply Co.
 Santa Fe.....Santa Fe Builders Supply Co.

OREGON

Baker.....Builders Supply Co.
 Coos Bay.....W. J. Conrad Lumber Company
 Eugene.....John Warner Hardware
 Grants Pass.....Rogue River Hardware
 Klamath Falls.....Swan Lake Moulding Co.
 Pendleton.....Tum-A-Lum Lumber Co.
 Portland.....Cascade Distributors, Inc.
 Roseburg.....Umpqua Valley Hardware
 Salem.....Valley Welding Supply
 The Dalles.....Stadelman-Bonn Hardware Co.

UTAH

Salt Lake City.....Arnold Machinery Co.

WASHINGTON

Aberdeen.....Grays Harbor Equipment Co.
 Bellingham.....J. M. Van Wickle
 Everett.....Everett Hardware Company
 Pasco.....Grigg Supply
 Seattle.....Cascade Distributors, Inc.
 Spokane.....Cascade Distributors, Inc.
 Tacoma.....Cascade Distributors, Inc.
 Yakima.....Fred Fellows

WYOMING

Casper.....Wyoming Builders Service
 Cheyenne.....Powers Builders Supply

RAY BURNER CO.

1301 San Jose Avenue
 San Francisco 12, California

PRODUCTS: Oil, Gas and Combination Oil-Gas Combustion Equipment for domestic, commercial, industrial and marine uses; Pumps; Oil Fired Warm Air Furnaces; Hot Water Heaters.

Distributors

Check Yellow pages of the telephone directory for Ray Distributors.

THE READY POWER CO.

Power Plant Division
 11231 Freud Avenue
 Detroit 14, Michigan

PRODUCTS: Engine Generator Sets; Electric Sets—Diesel and Gasoline; Magnet Chargers; Natural Gas Air Conditioning.

District Manager

CALIFORNIA
 Huntington Park—
 3370 E. Florence.....R. W. Stephenson

Distributors

ALASKA
 Anchorage.....The Carrington Co.
 Fairbanks.....The Carrington Co.

(Continued in next column)

The Ready Power Co. (Cont'd)

ARIZONA
 Phoenix.....Copper State Tractor Co.
 Tucson.....F. Ronstadt Hardware Co.
 Yuma.....Caldwell Equipment Co.

CALIFORNIA

Fresno.....Allied Equipment Co.
 Los Angeles.....Brown-Beris Industrial Eqt. Co.
 Oakland.....Bay Cities Equipment, Inc.
 Sacramento.....Sacramento Valley Tractor Co.
 San Diego.....Southern Equipment & Supply Co.

COLORADO

Denver.....Hahn Equipment Co.
 Glenwood Springs.....Elliott Equipment Co.
 Grand Junction.....Hallam-Boggs Truck & Impl. Co.

IDAHO

Boise.....Intermountain Equipment Co.
 Pocatello.....Intermountain Equipment Co.

MONTANA

Billings.....Industrial Equipment Co.
 Black Eagle.....Power Equipment Co.
 Great Falls.....Power Equipment Co.
 Kalispell.....Treasure State Equipment Co.
 Missoula.....Treasure State Equipment Co.

NEVADA

Reno.....Nevada Equipment Service, Inc.

NEW MEXICO

Albuquerque.....J. D. Coggins Co.
 Farmington.....J. D. Coggins Co.

OREGON

Albany.....Howard-Cooper Corp.
 Central Point.....Howard-Cooper Corp.
 Coquille.....Howard-Cooper Corp.
 Eugene.....Howard-Cooper Corp.
 Newport.....Howard-Cooper Corp.
 Portland.....Howard-Cooper Corp.
 Roseburg.....Howard-Cooper Corp.

WASHINGTON

Seattle.....Fremont Electric Co.
 The Carrington Co.
 Howard-Cooper Corp.
 Spokane.....Intermountain Equipment Co.

WYOMING

Casper.....Keremi Tractor & Equipment Co.
 Cheyenne.....Keremi Tractor & Equipment Co.

REISSER CORP.

E. Washington Street
 Blair, Nebraska

PRODUCTS: ELEGRADER—Elevating Grader Attachments.

Distributors

ALASKA
 Anchorage.....Bashaw Equipment Co.
 Fairbanks.....Miller, Bentley & Bashaw Equip. Co.

ARIZONA

Phoenix.....Road Machinery Co.

CALIFORNIA

Bakersfield.....Crook Company
 Los Angeles.....Crook Company
 Oakland.....Blakemore Equipment Co.
 Sacramento.....Blakemore Equipment Co.

COLORADO

Denver.....Johnson-Tudor Co.

MONTANA

Billings.....Western Construction Equipment Co.
 Great Falls.....Western Construction Equipment Co.

NEVADA

Reno.....Pioneer Eqt. Co. of Nevada

NEW MEXICO

Albuquerque.....Contractors Eqt. & Supply Co.

OREGON

Eugene.....Loggers & Contractors Mchy. Co.
 Portland.....Loggers & Contractors Mchy. Co.

UTAH

Salt Lake City.....Rocky Mountain Machinery Co.

WASHINGTON

Seattle.....Western Tractor & Equipment Co.
 Spokane.....Inland Diesel & Machinery Co.

WYOMING

Casper.....Moss Equipment & Supply Co.

REMINGTON ARMS CO., INC.

939 Barnum Avenue
 Bridgeport 2, Connecticut

PRODUCTS: Model 455A "Power-Mate" Basic Unit with Stud Driver Kits: K-1 (Captive-Stud); K-2 (Light Duty); K-3 (Medium Duty) and K-4 (Heavy Duty); Model 456 "Mighty Mite" Stud Driver.

(Continued in next column)

Remington Arms Co., Inc. (Cont'd)

Factory Branches

CALIFORNIA
 San Francisco—2735 San Pablo.....D. L. Braun (Berkeley)

UTAH

Salt Lake City—Walker Bk. Bldg. .O. W. Carlson, Jr.

Representatives

CALIFORNIA
 Granada Hills—16356 Tulsa St.....G. H. Eiser
 San Francisco—124 Juan Bautista Cir.....E. J. Conroy

OREGON

West Linn—5983 W. A St.....J. B. Bennett

UTAH

Salt Lake City—909 Walker Bank Bldg..J. Kapowich

DISTRIBUTORS IN ALL PRINCIPAL CITIES

REMINGTON ARMS CO., INC.

2500 S. Western Avenue
 Park Forest, Illinois

PRODUCTS: Gasoline, Electric and Air Powered Concrete Vibrators; Power Trowels; Electric and Air Powered Drills; Impact Wrenches; Circular Saws; Sanders; Grinders; Screw Drivers; Terrazzo Grinders; Gasoline, Air and Electric Chain Saws; Gasoline Powered Earth Bore.

Factory Branch Managers

CALIFORNIA
 Berkeley—2735 San Pablo Ave.....W. E. Langhorst

UTAH

Salt Lake City—
 909 Walker Bk. Bldg.....O. W. Carlson, Jr.

Regional Manager

CALIFORNIA
 Berkeley—2735 San Pablo Ave.....D. Lee Braun

Assistant District Managers

MONTANA
 Billings—1041 Avenue "C".....E. S. Larson

OREGON

Portland—7780 SW Montclair Dr.....D. N. Weimer

Field Representatives

ARIZONA
 Phoenix—2233 N. 37th Pl.....M. S. Crabtree

COLORADO

Denver—891 Cherry St., Apt. 27....A. L. Garrett
 Denver—1554 S. Ivy St.....J. Kapowich

UTAH

Salt Lake City—
 2589 Wilmingtton Ave.....Leo H. Neiberger

WASHINGTON

Bellevue—1008-111th St., NE.....J. A. Follitt

Distributors

ARIZONA
 Phoenix.....Waco Scaffolding & Equipment Co.

CALIFORNIA

Los Angeles.....Cal-Western Wholesale Co.

COLORADO

Denver.....Al Plonkey & Assoc., Inc.

IDAHO

Idaho Falls.....Southern Idaho Equipment Co., Inc.

MONTANA

Butte.....Montana Hardware Co.

NEVADA

Reno.....Wholesale Building Materials Co.

NEW MEXICO

Albuquerque.....Harry Cornelius Co.

OREGON

Enterprise.....Hahn Machine & Supply Co.

UTAH

Ogden.....George A. Lowe Co.

WASHINGTON

Seattle.....Cascade Machinery Co.

WYOMING

Riverton.....Wingert Electric Co.

REO DIVISION

The White Motor Co.
 1331 South Washington
 Lansing 20, Michigan

PRODUCTS: Gas Engines and Trucks.

Factory Sales Offices

CALIFORNIA
 Los Angeles—400 E. Washington Blvd. Edward Lensch
 San Francisco—590 Brannan St.

COLORADO

Denver—1910 38th St.

OREGON

Portland—2705 NW Nicolai St.

**C. I. T.'s Pay-As-You-Depreciate Plan provides
 long term financing for Contractors**

REPUBLIC STEEL CORP.

Truscon Division
Youngstown 1, Ohio

PRODUCTS: Steel and Aluminum Windows (all types); Residential Interior Steel Doors; Hollow Metal Doors; Industrial Steel Doors; Metal Lath Products and Accessories; Steel Joists; Steeldeck Roofs; Complete Steel Buildings; Concrete Reinforcing Bars; Welded Wire Fabric.

Western Offices

ARIZONA
Phoenix—221-C E. Camelback Rd....R. A. Johnson
CALIFORNIA
Los Angeles—5424 Slauson Ave....N. L. Field
San Francisco—16 Beale St....P. C. Christensen
OREGON
Portland—2139 N. Kerby Ave....Ronald E. Mohr
WASHINGTON
Seattle—107 W. Harrison St....R. B. Mather

RICE PUMP & MACHINE CO.

600 Park Street
Belgium, Wisconsin

PRODUCTS: Centrifugal Pumps; Diaphragm Pumps; Masonry Cutters.

District Representatives

ARIZONA
Phoenix—2866 Grand Ave....Ken Shaffer
COLORADO
Denver—2350 S. Lafayette....Vern True
OREGON
Portland—7204 SE 35th Ave....K. T. Mangels
UTAH
Ogden—1309 Hudson St....L. J. Evers

Distributors

ALASKA
Anchorage....Northern Supply Co.
ARIZONA
Phoenix....Wm. Johnson Supply Co.
Tucson....Superior Equipment Co.
Equipment Sales & Service
CALIFORNIA
Calxico....Refacciones y Accesorios del Norte,
S de R.L.
El Cajon....Kroeger Equipment Co.
Los Angeles....Industrial Engine Service
San Diego....Rent-It Service
San Francisco....Oswald Machine Works
San Jose....San Jose Hardware Co.
Santa Ana....Blystone Equipment Co.
COLORADO
Denver....Air Rentals, Inc.
Colorado Pump Service, Inc.
IDAHO
Kellog....Equipment Sales Co.
MONTANA
Billings....Great Northern Tool & Supply Co.
Butte....Pioneer Equipment & Supply Co.
Great Falls....Carl Weissman & Sons, Inc.
NEW MEXICO
Albuquerque....Equipment Rental & Sales Co.
Farmington....Justis Supply
OREGON
Portland....Waterworks Supplies Co.
UTAH
Ogden....E. C. Olsen Co.
WASHINGTON
Aberdeen....Grays Harbor Equipment Co.
Everett....D. Lloyd Co.
Seattle....Fray Equipment Co.
Spokane....Spokane Machinery Co.
Waterworks Supplies Co.
WYOMING
Casper....Great Northern Tool & Supply Co.

RICHMOND SCREW ANCHOR CO., INC.

816-838 Liberty Avenue
Brooklyn 8, New York

PRODUCTS: Engineered Tying Devices; Anchorages and Accessories for Concrete Construction.

Western Regional Manager

CALIFORNIA
San Marino—1750 San Marino Ave....Geo. E. Tupper

Distributors

ARIZONA
Phoenix....Equipment Sales Co.
(Continued in next column)

Richmond Screw Anchor Co., Inc.

(Cont'd)

CALIFORNIA

Bakersfield....Bakersfield Sandstone & Brick Co.
E. Los Angeles....W. J. Burke & Co.
Fresno....Hesley & Popovich
Sacramento....W. J. Burke & Co.
San Diego....W. J. Burke & Co.
San Francisco....W. J. Burke & Co.

COLORADO

Denver....Booth-Rouse Equipment Co.
Grand Junction....Independent Lumber Co.

IDAHO

Boise....Allen Steel Supply Co.

MONTANA

Billings....Midland Materials Co.
Bozeman....Empire Building Materials, Inc.
Great Falls....Monty Machinery Co.

NEW MEXICO

Albuquerque....W. J. Burke & Co.

OREGON

Portland....W. J. Burke & Co.

UTAH

Salt Lake City....Intermountain Concrete Specialties

WASHINGTON

Seattle....W. J. Burke & Co.

WYOMING

Casper....Casper Concrete Co.

ROCKFORD CLUTCH DIVISION

Borg Warner Co.
1301 - 18th Avenue
Rockford, Illinois

PRODUCTS: Clutches—"Spring Loaded," "Over Center," "Multiple Disc"; Power Take-Offs; Gear Reduction Units; Power Shift Transmissions.

Distributors

CALIFORNIA
Los Angeles....Continental Sales & Service Co.
COLORADO
Denver....Brake & Clutch Service Co.
OREGON
Portland....Northwest Hydraulic Starters, Inc.

ROCKLAND ALLIED EQUIPMENT CO.

3778 West Colonial Drive
Orlando, Florida

PRODUCTS: Land Clearing Rakes; Tree-Dozer Booms; Stumping Heads and Tools; Brush Racks; Power Saws; Grubber Blades; Sandpiper Dredges; Tree Saws; Backripper Teeth; Sand Washing Plants.

Distributors

ROCKLAND Products are sold thru all authorized Allis-Chalmers, International Harvester and Oliver Crawler tractor dealers throughout the 11 Western states and Alaska.

RODGERS HYDRAULIC, INC.

7401 Walker Street
Minneapolis 26, Minnesota

PRODUCTS: Hydraulic Jacks; Hydraulic Pumps; Cylinders; Valves; Couplings; Puller Units; Shop Presses; Forcing Presses; Track Service Presses, stationary and portable.

District Manager

CALIFORNIA
Burlingame—340 Lorton Ave....Earl P. Hoisington

Distributors

ALASKA
(Seattle)....The Carrington Co.
N-C Machinery Co.
CALIFORNIA
Los Angeles....Fornaciari Co.
San Francisco....C. H. Bull Co.
COLORADO
Denver....Mine & Smelter Supply Co.
IDAHO
Boise....Intermountain Equipment Co.
Pocatello....Intermountain Equipment Co.
NEVADA
Reno....Sierra Machinery Co.
OREGON
Portland....Contractors Equipment Corp.
UTAH
Salt Lake City....Salt Lake Hardware Co.
WASHINGTON
Seattle....Hallidie Machinery Co.

JOHN A. ROEBLING'S SONS CORP.

640 South Broad Street
Trenton 2, New Jersey

PRODUCTS: Wire Rope Strand and Assemblies; Wire Rope Slings; Electrical Wire and Cable; Tensioning Materials for prestressed concrete; Suspension Bridges and Cable; Trams; Suspension Systems of all types.

Factory Branches

CALIFORNIA
Los Angeles—Manager....J. C. Barlow
San Francisco—Manager....G. C. Bukowsky
COLORADO
Denver—Manager....G. P. Hayes
WASHINGTON
Seattle—Manager....E. A. Frazier

ROGERS BROTHERS CORP.

Albion, Pennsylvania

PRODUCTS: Low Bed Heavy Duty Trailers; Industrial Diesel Locomotives, 5 to 40 tons.

Distributors

CALIFORNIA
San Francisco....Coast Equipment Co., Inc.
COLORADO
Denver....H. W. Moore
IDAHO
Boise....Intermountain Equipment Co.
MONTANA
Billings....Montana Trailer Sales & Eqpt. Co.
Great Falls....Power Equipment Co.
Missoula....Miller Machinery Co.
NEW MEXICO
Albuquerque....Western Machinery Co.
WASHINGTON
Spokane....Intermountain Equipment Co.

RONNINGEN-PETTER CO.

2700 East Y-2 Street
Vicksburg 1, Michigan

PRODUCTS: Liquid Filters; Pipe Line Strainers.

Representatives

CALIFORNIA
San Francisco—50 Hawthorne St....C. T. White
WASHINGTON
Seattle—Central Bldg....Fairman B. Lee Co.

ROSCO MANUFACTURING CO.

3118 Snelling Avenue
Minneapolis 6, Minnesota

PRODUCTS: Bituminous Distributors; Road Maintenance Units; Sweepers; Haul Tanks (Bituminous); Street Cleaners; Street Flushers; Water Sprinklers for Soil Stabilization; Asphalt Kettles; Burners; Road Rollers.

Distributors

ARIZONA
Phoenix....Equipment Sales Co.
CALIFORNIA
Los Angeles....Larson Equipment Co.
San Francisco....FWD Pacific Co.
COLORADO
Denver....H. W. Moore Equipment Co.
IDAHO
Boise....G-K Machinery Co.
MONTANA
Helena....Montana Powder & Equipment Co.
Missoula....Westmont Tractor & Equipment Co.
NEVADA
Reno....Sierra Machinery Co.
NEW MEXICO
Albuquerque....The Harry Cornelius
OREGON
Portland....Columbia Equipment
UTAH
Salt Lake City....Rocky Mountain Machinery
WASHINGTON
Seattle....A. H. Cox & Co.
Spokane....Modern Machinery
WYOMING
Casper....Studer Tractor & Equipment

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
Equitable Building, Portland

OWE MANUFACTURING CO.614 West Third Street
Galesburg, Illinois

PRODUCTS: Ro-Way Overhead Doors, both wood and steel; Electric Operators.

Western District Sales Manager**INDOIS**Galesburg—c/o Rowe Mfg. Co. Eugene Harlan
(Colo., Ida., Mont., Utah, Wyo.)**Distributors****IZONA**Phoenix Baker-Thomas Lime & Cement
Clarence R. Yeager**OLORADO**Colorado Springs Ro-Way Overhead Door Co.
Denver Colorado Builders Supply Co.**IAHO**

(Salt Lake) Alder's

NTANABillings Duke & Eaton
Butte Archie W. Adams
Tavre Treasure State Supply Co.**W MEXICO**Albuquerque Warren M. Rose Door Co.
Artesia Jay F. Vandeventer**AH**

Salt Lake City Alder's

OMING

(Denver) Colorado Builders Supply Co.

JHR INDUSTRIES1411 Walnut Street
Philadelphia 2, Pennsylvania

PRODUCTS: Ruhr Grapples—Model M-1, General Materials Handling; Model M-2, Caisson Diggers; M-3, Pulp Wood Grapples (Jack Straw); LMG Bucket Wheel Excavators.

Distributors**EGON**

Portland Schnitzer Steel Products Co.

AH

Salt Lake City Cate Equipment Co.

FWAY STEEL PRODUCTS, INC.5228 West 13th Street
Milwaukee 13, Wisconsin

PRODUCTS: Tubular Steel Scaffolding; Shores; Suspended Scaffolding.

Factory Branch**LIFORNIA**

Los Angeles—5875 Rodeo Rd. G. R. Marsden

Distributors**OLORADO**

Denver Safway Steel Scaffolds of Colorado

NTANABillings Rental Equipment Co.
Butte Construction Materials Co.**W MEXICO**

Albuquerque Safway Steel Scaffolds Co. of N.M.

THE SALEM TOOL CO.767 South Ellsworth Avenue
Salem, Ohio

PRODUCTS: Ladles, Kettles and Skimmers; Auger Drills; Trench Type Utility Drills; Truck Mounted and Self-Propelled Horizontal Highway Drills; Vertical 6" and 8" Drills; Mineral Recovery Drills.

Distributors**ASKA**

(Seattle) The Carrington Co.

IZONA

Phoenix Western Machinery Co.

LIFORNIASan Francisco Edward R. Bacon Co.
Los Angeles Smith-Booth-Usher Co.**OLORADO**

Denver Union Supply Co.

AHO

Boise Intermountain Equipment Co.

ONTANA

Butte Hall-Perry Machinery Co.

EVADA

Reno Sierra Machinery Co.

(Continued in next column)

The Salem Tool Co. (Cont'd)**NEW MEXICO**

Carlsbad Carlsbad Supply Co.

OREGON

Portland Clyde Equipment Co.

UTAH

Salt Lake City Western Machinery Co.

WASHINGTONSeattle The Carrington Co.
Clyde Equipment Co.

Spokane Intermountain Equipment Co.

SALYER'S EQUIPMENT CO.728 E. Washington Blvd.
Los Angeles 21, California

PRODUCTS: Generator Sets—diesel, gasoline and natural gas powered; Uniform Temperature Controls for diesel engines; Automatic Engine Controls for automatic starting and stopping of power units; Fire Pumps and Generators; Automatic Power Transfer Switches; Trickle Chargers.

Distributor**CALIFORNIA**

Los Angeles Anderson-O'Brien Co.

SANDVIKENS JERNVERKS, A. B.

Sandviken, Sweden

PRODUCTS: Integral Drill Steels; Tungsten-Carbide Detachable Rock Bits; Extension Drill Steels.

Technical Representative**CALIFORNIA**

San Carlos—930 Brittan Ave. Lars deJounge

Distributors**ARIZONA**

Phoenix Atlas Copco Pacific, Inc.

CALIFORNIA

San Carlos Atlas Copco Pacific, Inc.

COLORADO

Denver Atlas Copco Pacific, Inc.

UTAH

Salt Lake City Atlas Copco Pacific, Inc.

WASHINGTON

Spokane Atlas Copco Pacific, Inc.

SANSTORM MANUFACTURING CO.1801 Santa Clara at H Street
P.O. Box 1173
Fresno 15, California

PRODUCTS: Pressure Type Blast Cleaning Equipment and Accessories.

Distributors**ARIZONA**

Phoenix Western Machinery Co.

CALIFORNIALos Angeles Garlinghouse-Fremont & Co.
Smith-Booth-Usher Co.

Oakland Edward R. Bacon Co.

Sacramento Edward R. Bacon Co.

San Diego Kenton Equipment Co.

San Francisco Edward R. Bacon Co.

Stockton Guntert & Zimmerman Sales Div., Inc.

COLORADO

Denver Western Machinery Co.

IDAHO

Boise Engineering Sales & Service, Inc.

MONTANA

Billings Montana Powder & Equipment Co.

Helena Montana Powder & Equipment Co.

NEW MEXICO

Albuquerque J. D. Coggins Co.

Contractors Equipment & Supply

Harry Cornelius Co.

OREGON

Portland La Grande Industrial Supply Co.

UTAH

Salt Lake City Western Machinery Co.

WASHINGTON

Seattle A. H. Cox & Co.

Spokane Western Machinery Co.

Tacoma A. H. Cox & Co.

SAUERMAN BROS., INC.620 South 28th Avenue
Bellwood, Illinois

PRODUCTS: Drag Scrapers; Slackline and Tautline Cableways; Wire Rope Blocks; Wire Rope and Wire Rope Fittings.

Distributors**ALASKA**

(Seattle) Northern Commercial Co.

CALIFORNIA

Los Angeles Smith-Booth-Usher Co.

Millbrae Hugh L. Davis

COLORADO

Denver Constructors Equipment Co.

MONTANA

Billings Hall-Perry Machinery Co.

Butte Hall-Perry Machinery Co.

Great Falls Hall-Perry Machinery Co.

Missoula Hall-Perry Machinery Co.

OREGON

Portland Clyde Equipment Co.

WASHINGTON

Seattle Clyde Equipment Co.

Northern Commercial Co.

Spokane Intermountain Equipment Co.

SCHILD BANTAM CO.223 Park Street
Waverly, Iowa

PRODUCTS: Cranes; Back Hoes; Shovels; Draglines; Clamshells; Grapples; Backfillers; Pile Drivers; Magnet Cranes (carrier-mounted, crawler mounted and self-propelled); Tampons.

District Managers**CALIFORNIA**

San Fernando—10451 Peach Ave. John C. Carlile

WASHINGTON

Spokane—P.O. Box 849 R. A. Ottersness

2316 Manito Blvd.

Distributors**ALASKA**

Anchorage Yukon Equipment, Inc.

Fairbanks Yukon Equipment, Inc.

Ketchikan Yukon Equipment, Inc.

ARIZONA

Phoenix Western Machinery Co.

Tucson Western Machinery Co.

CALIFORNIA

Bakersfield Inland Equipment Co.

Eureka Trinity Tractor Co.

Fresno Contractors Equipment & Supply Co.

Los Angeles Cook Bros. Construction Machinery Co.

Essex Machinery Company

Oakland Cook Bros. Truck & Equipment Co.

Santa Maria Hanson Equipment Company

San Diego Southern Equipment & Supply Co.

COLORADO

Denver Power Equipment Company

Grand Junction Power Equipment Company

IDAHO

Boise Engineering Sales Service, Inc.

Pocatello Engineering Sales Service, Inc.

MONTANA

Billings Industrial Equipment Co.

Black Eagle Power Equipment Company

Missoula Taber White Truck Co.

NEVADA

Reno Reno Equipment Sales Co.

NEW MEXICO

Albuquerque Harry Cornelius Co.

OREGON

Medford Cal-Ore Machinery Co.

Portland Wood Tractor Co.

UTAH

Salt Lake City Kimball Equipment Co.

WASHINGTON

Spokane Modern Machinery Co.

Seattle Western Tractor & Equipment Co.

Yukon Equipment Co.

WYOMING

Casper Studer Tractor & Equipment Co.

SCHRAMM, INC.

West Chester, Pennsylvania

PRODUCTS: Air Compressors; Pneumotracors; Rotadrills; Boosters; Sump Pumps, Tools.

Factory Branch**CALIFORNIA**

Los Angeles—846 E. 6th St.

(Continued on next page)

**C. I. T.'s Pay-As-You-Depreciate Plan permits
payments out of depreciation**

Schramm, Inc. (Cont'd)

District Representative

CALIFORNIA
Oakland—16th & Jefferson Sts.....Ray G. Nurick

Distributors

ARIZONA
Phoenix.....Nell B. McGinnis Co.

CALIFORNIA
Anaheim.....Western Belting & Mechanicals, Inc.
Corte Madera.....Big Four Rent Eqt. Co.
El Cajon.....Kroeger Equipment Co.
Fresno.....Halse Murray Co.
Glendale.....Cross Tool Co.
Los Angeles.....Schramm, Inc.
Balloon Tire Mould Co., Inc.
Bonanza Supply
Lang Engineering Co.
Martin Supply Co.
Morrissey Equipment Co.
Richter Engineering Co.
Western Belting & Mechanicals, Inc.
Kelco Sales & Engineering Co.
Blakemore Equipment Co.
Salinas.....Farmers Mercantile Co.
San Francisco.....The Kean Co.
Wade's Equipment Repair

Stratford.....Orton's Equipment Co., Inc.
Van Nuys.....Valley Trailer Rentals

COLORADO
Albuquerque.....Well Completions, Inc.
Denver.....Industrial Supply Co.

IDAHO
Boise.....Engineering Sales Service, Inc.

MONTANA
Billings.....Montana Powder & Equipment Co.
Helena.....Montana Powder & Equipment Co.

NEW MEXICO
Albuquerque.....New Mexico Equipment Co., Inc.

OREGON
Portland.....Hamilton Engine Sales, Inc.

UTAH
Midvale.....Utah Bit & Steel Co.
Salt Lake City.....Western Machinery Co. (Mining Div.)

WASHINGTON
Seattle.....Caldwell Machinery Co., Inc.
H. D. Fowler Co., Inc.
C. T. Takahashi & Co., Inc.
General Machinery Co.

Spokane.....General Machinery Co.

SEAMAN-ANDWALL CORP.
Milwaukee 1, Wisconsin

PRODUCTS: Vibrating Screens.

Distributors

ARIZONA
Phoenix.....Western Machinery Co.

CALIFORNIA
Oakland.....Cheney Machinery Sales & Parts

COLORADO
Denver.....Western Machinery Co.

IDAHO
Boise.....Engineering Sales Service, Inc.

MONTANA
Great Falls.....Western Construction Equipment Co.
Billings.....Western Construction Equipment Co.

NEVADA
(Oakland).....Cheney Machinery Sales & Parts

OREGON
Portland.....Contractors Equipment Co.

UTAH
Salt Lake City.....National Equipment Co.

WASHINGTON
Spokane.....Western Machinery Co.

WYOMING
(Billings).....Western Construction Equipment Co.

SEAMAN-ANDWALL CORP.
Milwaukee 1, Wisconsin

PRODUCTS: Pulvi-Mixer; Trav-L-Plant; Pneumatic Compactors; Steel Rollers; Pulvi-Breaker; Cement Spreaders; Material Spreaders; Vibro-Joint Cutters.

Zone Manager

ARIZONA
Mesa—508 No. Robson St.....George Blewer

Distributors

ARIZONA
Phoenix.....Southwest Equipment Co.

(Continued in next column)

Seaman-Andwall Corp. (Cont'd)

CALIFORNIA
San Francisco.....Western Traction Co.

COLORADO
Denver.....Liberty Trucks & Parts

IDAHO
Idaho Falls.....Western Machinery Co.

MONTANA
Billings.....Industrial Equipment Co.
Great Falls.....Normont Equipment Co.
Kalispell.....Treasure State Equipment Co.

NEW MEXICO
(Phoenix).....Southwest Equipment Co.

OREGON
Portland.....Balzer Machinery Co.

UTAH
Salt Lake City.....Western Machinery Co.

WASHINGTON
Seattle.....Sahlberg Equipment, Inc.

WYOMING
Casper.....Studer Tractor & Equipment Co.

SEAMAN-GUNNISON CORP.
2763 South 27th Street
Milwaukee 15, Wisconsin

PRODUCTS: Duo-Products Division—Duo-Factors, Duo-Graders, Duo-Scrapers and Self-Propelled Utility Scrapers. Gunnison Division—Duo-Flo Bituminous Distributors and Hydro-Jet Street Flushers.

Sales Representatives

CALIFORNIA
Los Angeles—405 S. Orange Grove Ave.....Everett Small

WASHINGTON
Bellevue—8733 4th Pl. NE.....James A. Dougan

Distributors—Duo-Products Division

ARIZONA
Phoenix.....O. S. Stapley Co.
Branches at Buckeye, Casa Grande, Chandler, Coolidge, Glendale, Mesa.

CALIFORNIA
Berkeley.....West Coast Engine & Equipment Co.
Escondido.....Southern Equipment & Supply Co.
Los Angeles.....Santa Fe Equipment Co.
Sacramento.....Island Equipment Co.
Salinas.....Farmers Mercantile Co.
San Diego.....Southern Equipment & Supply Co.
Watsonville.....Farmers Mercantile Co.

COLORADO
Denver.....Booth-Rouse Equipment Co.

IDAHO
Boise.....The Sawtooth Co.
Idaho Falls.....The Sawtooth Co.
Twin Falls.....The Sawtooth Co.

MONTANA
Billings.....Miller Machinery Co.
Great Falls.....Miller Machinery Co.
Missoula.....Miller Machinery Co.

OREGON
Portland.....Cramer Machinery Co.

UTAH
Salt Lake City.....Lang Construction Equipment Co.

WASHINGTON
Seattle.....Hatten Machinery Co.
Spokane.....Modern Machinery Co., Inc.

Distributors—Gunnison Division

ARIZONA
Phoenix.....O. S. Stapley Co.

CALIFORNIA
Escondido.....Southern Equipment & Sales
Salinas.....Farmers Mercantile Co.
San Diego.....Southern Equipment & Sales
Watsonville.....Farmers Mercantile Co.

IDAHO
Boise.....Southern Idaho Equipment Co.
Idaho Falls.....Southern Idaho Equipment Co.
Twin Falls.....Southern Idaho Equipment Co.

MONTANA
Billings.....Miller Machinery Co.
Great Falls.....Miller Machinery Co.
Missoula.....Miller Machinery Co.

NEVADA
(Salt Lake).....Lang Construction Equipment Co.

NEW MEXICO
Albuquerque.....N. C. Ribble Co.

UTAH
Salt Lake City.....Lang Construction Equipment Co.

WASHINGTON
Seattle.....Sahlberg Equipment Co., Inc.
Spokane.....Ferris Equipment Co.

WYOMING
Casper.....Moss Equipment & Supply Co.

SELMA TRAILER & MANUFACTURING CO.

3111 Highway 99, P.O. Box 120
Selma, California

PRODUCTS: Trailers—Utility, Tilt Bed, Equipment Compressor, Welder, Hydraulic, Tank Electric Car, Boat, Cotton, Vineyard Tractor, Dual Steer Pallet, General Purpose; Feed Wagons; Custom Built Trailers and Truck Beds.

SHAWNEE MANUFACTURING CO., INC.

1947 North Topeka Avenue
Topeka, Kansas

PRODUCTS: Front End Loaders; Backhoes; Rear Blade Pulpwood Loaders; Sugar Cane Loaders.

Distributors

CALIFORNIA
Los Angeles.....B. Hayman Co., Inc.
(for Arizona, California and Western Nevada)

MONTANA
Billings.....Farm Aid Equipment Co.
(Also cover No. Wyoming)

NEW MEXICO
(Dallas).....The Southern Plow Co.

UTAH
Ogden.....Shawnee Mfg. Co., Inc.
(Also covers Colorado)

WASHINGTON
Yakima.....Rankin Equipment Co.
(Idaho, Oregon, Washington)

SHERMAN PRODUCTS, INC.

3200 West 14 Mile Road
Royal Oak, Michigan

PRODUCTS: Power Digger; Fork Lift; Front End Loader; Reversing Transmission; Crane Excavator.

Western Regional Zone Manager

CALIFORNIA
San Francisco.....J. G. F.

Distributors

ALASKA
(Portland).....Columbia Tractor & Implement Co.

ARIZONA
(Los Angeles).....Hight-Thompson, Inc.

CALIFORNIA (NORTH)
Richmond.....Pacific Tractor & Implement Co.

CALIFORNIA (SOUTH)
Los Angeles.....Hight-Thompson, Inc.

COLORADO
Denver.....McCarty-Sherman Distributing

IDAHO
(Salt Lake City).....Intermountain Ford Tractor

MONTANA
Billings.....Wymont Tractor & Equipment

NEVADA
(Los Angeles).....Hight-Thompson, Inc.

NEW MEXICO
(Denver).....McCarty-Sherman Distributing

OREGON
Portland.....Columbia Tractor & Implement

UTAH
Salt Lake City.....Intermountain Ford Tractor

WASHINGTON
(Portland).....Columbia Tractor & Implement

WYOMING
(Denver).....McCarty-Sherman Distributing

SHOVEL SUPPLY CO.

4900 Hines Blvd.
Dallas 21, Texas

PRODUCTS: Sheepsfoot and Tamping Rollers; Pneumatic Rollers, towed and self-propelled; Steel Wheel Rollers, portable and tandem; Vibrating Rollers; Sub-Grade Plows; Multiple Pavement Vibrators; Graders; Blades; Dozer and Scraper Blades; Drums; Steel.

Distributors

ARIZONA
Phoenix.....Superior Equipment Co.

(Continued on next page)

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
Equitable Building, Portland

Level Supply Co. (Cont'd)

CALIFORNIA
Los Angeles.....Brown-Bevis Industrial Equipment Co.
Larson Equipment Co.
Oakland.....George M. Philpott Co., Inc.
Sacramento.....George M. Philpott Co., Inc.
San Diego.....Construction Machinery Co.
San Francisco.....Coast Equipment Co.
George M. Philpott Co., Inc.

COLORADO
Denver.....Tudor Equipment Co.

IDAHO
Boise.....Arnold Machinery Co.
Idaho Falls.....Arnold Machinery Co.
Spokane.....Feenaughty Machinery Co.

MONTANA
Billings.....Seitz Machinery Co., Inc.
Butte.....Pioneer Equipment & Supply Co.
Great Falls.....Central Machinery Co.

NEVADA
Reno.....Reno Equipment Sales

NEW MEXICO
Albuquerque.....R. L. Harrison Co., Inc.

OREGON
Portland.....Feenaughty Machinery Co.

UTAH
Salt Lake City.....Arnold Machinery Co.

WASHINGTON
Seattle.....Feenaughty Machinery Co.
Spokane.....Feenaughty Machinery Co.

COMING
Casper.....Moss Equipment & Supply Co.

MPLEX FORMS SYSTEM, INC.

5605 Industrial Avenue
Rockford (Loves Park), Illinois
PRODUCTS: Concrete Forms; Tire Wires; Accessories.

Distributors

COLORADO
Englewood.....Nyco, Inc.
WASHINGTON
Seattle.....Nyco, Inc. of Seattle

MPLICITY ENGINEERING CO.

Oak Street
Durand, Michigan
PRODUCTS: Vibrating Screens; Grizzly Feeders; Scalpers; Simpli-Flo Two Bearing Screens; Horizontal Screens; Oscillating Conveyors; Dewatering Wheels.

Sales Engineer

CALIFORNIA
El Monte—2226 N. Rosemead Blvd...R. A. Alshire

Distributors

ARIZONA
Phoenix.....Arizona Equipment Sales, Inc.
Prescott.....Arizona Mining Supply Corp.

CALIFORNIA
Los Angeles.....Brown-Bevis Industrial Eqpt. Co.
San Francisco.....Standard Machinery Co.

COLORADO
Denver.....Patten Engineering Co.

IDAHO
Pocatello.....Rocky Mountain Machinery Co.

MONTANA
Billings.....Industrial Equipment Co.
Kalispell.....Treasure State Equipment Co.
Missoula.....Treasure State Equipment Co.

OREGON
Portland.....Columbia Equipment Co.

UTAH
Salt Lake City.....Rocky Mountain Machinery Co.

WASHINGTON
Seattle.....Columbia Equipment Co.
Spokane.....Modern Machinery Co.

SKAGIT STEEL & IRON WORKS

Sedro-Woolley, Washington
PRODUCTS: Hand, Gasoline, Diesel and Electric Hoists; Cranes; Derricks; Draglines; Winches and Windlasses.

Factory Branch

OREGON
Eugene.....Skagit, Inc. of Oregon

Distributors

ARIZONA
Phoenix.....State Tractor & Equipment Co.

(Continued in next column)

Skagit Steel & Iron Works (Cont'd)

CALIFORNIA
Chico.....Sierra Tractor & Equipment Co.
Eureka.....Brizard-Matthews Machinery Co.
Los Angeles.....Smith-Booth-Usher Co.
Napa.....Berglund Tractor & Equipment Co.
Oxnard.....Wallace Machinery Co.
Redding.....Sierra Tractor & Equipment Co.
Santa Rosa.....Berglund Tractor & Equipment Co.
Willits.....Berglund Tractor & Equipment Co.

COLORADO
Denver.....Western Machinery Co.
Grand Junction.....S & M Supply Co.
Western Machinery Co.

MONTANA
Billings.....Seitz Machinery Co.

NEVADA
Reno.....Sierra Machinery Co.

NEW MEXICO
Albuquerque.....R. L. Harrison Co., Inc.

OREGON
Arlington.....Empire Machinery Co.
Astoria.....Halton Tractor Co.
Athena.....Empire Machinery Co.
Coquille.....Pape Bros., Inc.
Eugene.....Pape Bros., Inc.
Grants Pass.....Cascade Industrial Supply, Inc.
Heppner.....Empire Machinery Co.
Klamath Falls.....Cascade Industrial Supply, Inc.
LaGrande.....Inland Machinery Co.
Pendleton.....Empire Machinery Co.
Portland.....Halton Tractor Co.
Roseburg.....Pape Bros., Inc.
Salem.....Halton Tractor Co.

WASHINGTON
Longview.....Halton Tractor Co.
Seattle.....Northern Commercial Co. (& Alaska)
Star Machinery Co.
Washington Machinery Co.
Spokane.....Inland Diesel & Machinery Co.
Wenatchee.....Columbia Tractor Co.

SKIL CORPORATION

5033 Elston Avenue
Chicago 30, Illinois

PRODUCTS: Portable Electric & Pneumatic Tools; Saws; Drills; Sanders; Planes; Drivers and Nut Runners; Grinders; Hammers; Shears.

Western Factory Branch Managers

ARIZONA
Phoenix—3123 E. McDowell Rd....Robert J. White

CALIFORNIA
Los Angeles—2730 S. Broadway.....Paul K. Jones
San Francisco.....Herman H. Pilg
285 S. Van Ness Ave.

COLORADO
Denver—4462 York St.....Joseph L. Small

OREGON
Portland—5616 NE Gilman St.....Bart Macomber

WASHINGTON
Seattle—818 John St.....Frank Umbarger
Spokane—2226 Riverside.....Robert B. Hackett
Contact nearest Skil Branch for information

THE SKOOKUM COMPANY, INC.

8504 North Crawford Street
Portland 3, Oregon

PRODUCTS: All types of blocks and forgings that are used with wire rope, standard and custom made. Skookum will build any type forging or block to fill individual requirements; The Skookum Cold Flow Press.

Factory Personnel

OREGON
Portland.....8504 N. Crawford
K. L. Wernsing.....Vice-President and Sales Manager
Howard Wilson.....District Sales Representative
Dick Lyons.....District Sales Representative

SMITH ENGINEERING WORKS

532 East Capitol Drive
P.O. Box 723
Milwaukee 12, Wisconsin

PRODUCTS: Tel-smith Gyrotary Breakers; Jaw Crushers; Gyrasphere Crushers; Intercone Crushers; Roll Crushers; Pulsators; Vibro-King Screens; Rotary Grizzlies; Hercules and Standard Rotary Screens; Super-Scrubbers; Screw Rewashers; Sand Classifiers; Sand Tanks; Sand Drags; Feeders; Apron Feeders; Elevators and Portable Crushing and Screening Plants.

(Continued in next column)

Smith Engineering Works (Cont'd)

District Managers

CALIFORNIA
Los Angeles—1950 Santa Fe Ave....R. G. Morton
OREGON
Portland—1631 NW Thurman...Wm. P. McConnell

Distributors

ALASKA
Anchorage.....Bashaw Equipment Co.

ARIZONA
Phoenix.....Lee Redman Equipment Co.

CALIFORNIA
Los Angeles.....Essick Machinery Co.
San Francisco.....Mines Engineering & Eqpt. Co.

COLORADO
Denver.....Constructors Equipment Co.

IDAHO
Boise.....The Starline Equipment Co.

NEVADA
(San Francisco).....Mines Engineering & Eqpt. Co.
(Salt Lake).....Foulger Equipment Co.

MONTANA
Billings.....Westate Machinery Co.
Kalispell.....Mountain Tractor Co.
Missoula.....Mountain Tractor Co.

NEW MEXICO
Albuquerque.....Contractors Eqpt. & Supply Co.

OREGON
Portland.....Clyde Equipment Co.

UTAH
Salt Lake City.....Foulger Equipment Co.

WASHINGTON
Seattle.....Clyde Equipment Co.
Spokane.....General Machinery Co.

GORDON SMITH & CO., INC.

528 College Street
Bowling Green, Kentucky
PRODUCTS: Portable and Stationary Air Compressors.

Factory Representative

COLORADO
Denver—4921 E. 38th Ave.....Fred A. Pease

Distributors

ARIZONA
Phoenix.....Arizona Cedar Rapids Co.

CALIFORNIA
Los Angeles.....Mine & Mill Machinery Co.
Santa Barbara.....Milpas Rental Service

COLORADO
Denver.....John Steele Machinery Co.

IDAHO
Boise.....Starline Equipment Co.

NEVADA
Las Vegas.....Inland Service & Supply Co.

NEW MEXICO
Albuquerque.....Harry Cornelius Co.
Clovis.....Clovis Wholesale Supply

OREGON
Medford.....Cal-Ore Machinery Co.

UTAH
Salt Lake City.....Rasmussen Equipment & Supply Co.

S. MORGAN SMITH CO.

P.O. Box 712
York, Pennsylvania

PRODUCTS: Hydraulic Turbines; Rotovales; Ball Valves; Butterfly Valves; Howell-Bunger Valves for free discharges; Leonard Trash Rakes; Gates and Gate Hoists; Adjustable Blade Axial Flow Pumps.

District Offices

CALIFORNIA
San Francisco—68 Post Street
Temple City—9602 E. Las Tunas

WASHINGTON
Bellevue—9861 N.E. 16th St.

Sales Representatives

ARIZONA
Phoenix.....Steel & Engr. Products Co.

CALIFORNIA
Los Angeles.....W. J. Beckett Co.
San Francisco.....Trident Engineering Co.

COLORADO
.....Harry J. Glass & Associates

NEW MEXICO
Albuquerque.....Steel & Engr. Products Co.

OREGON
Portland.....E. A. Finkbeiner Co.

UTAH
Salt Lake City.....William Z. Harrison Co.

WASHINGTON
Seattle.....Branom & Leeland Instrument Co.

**C. I. T. provides experienced financing for
Distributors and Contractors**

THE T. L. SMITH CO.
2835 North 32nd Street
Milwaukee 1, Wisconsin

PRODUCTS: Portable Concrete Mixers; Stationary and Tilting Concrete Mixers; Truck Mixers and Agitators.

District Sales Representative

OREGON
Portland—6416 SE 90th Ave.....George Whitman

District Sales Representative

CALIFORNIA
Oxnard—104 W. Fir.....Harold Rataczak

Distributors

ARIZONA
Phoenix.....Equipment Sales Co.

CALIFORNIA
Los Angeles.....Essick Manufacturing Co.
Oakland.....The Brose Co.

COLORADO
Denver.....Constructors Equipment Co., Inc.

MONTANA
Helena.....Montana Powder & Equipment Co.

NEW MEXICO
Albuquerque.....R. L. Harrison Co., Inc.

OREGON
Portland.....Clyde Equipment Co.

UTAH
Salt Lake City.....Lund Machinery Co.

WASHINGTON
Seattle.....Clyde Equipment Co.
Spokane.....General Machinery Co.

WYOMING
Casper.....Studer Tractor & Equipment Co.
Cheyenne.....Wilson Equipment Co.

SOILTEST, INC.
4711 West North Avenue
Chicago 39, Illinois

PRODUCTS: Testing Equipment—Soil, Concrete and Asphalt Field and Laboratory Test Apparatus.

Distributors

CALIFORNIA
Los Angeles.....Pacific Scientific Co.
San Francisco.....Pacific Scientific Co.

OREGON
Portland.....Pacific Scientific Co.

WASHINGTON
Seattle.....Pacific Scientific Co.

SONOCO PRODUCTS CO.
Construction Products Division
Hartsville, South Carolina

PRODUCTS: SONOTUBES—Fibre forms for concrete members.
SONOVOLD—Fibre tubes for creating voids in concrete members.
SONOAIRODUCT—Fibre forms for heating ducts.

Factory Branch

CALIFORNIA
La Puente—166 N. Baldwin Park Blvd.
J. D. Watford.....Resident Sales Manager
F. H. Crouch.....Production Manager
W. J. Matteson.....Sales Engineer

Distributors—Sonotubes & Sonovoid

ALASKA
(Los Angeles).....Sonoco Products Co.

ARIZONA
Phoenix.....Superior Equipment Co., Inc.

CALIFORNIA
Los Angeles.....W. J. Burke & Co.
Sacramento.....W. J. Burke & Co.
San Francisco.....W. J. Burke & Co.

COLORADO
Denver.....K. C. Construction Supply Co.

IDAHO (N)
(Seattle).....W. J. Burke & Co.

IDAHO (S)
(Salt Lake).....Intermountain Concrete Specialties

MONTANA (E)
(Denver).....K. C. Construction Supply

MONTANA (W)
Billings.....Madden Construction Supply Co., Inc.

NEVADA
(Sacramento).....W. J. Burke & Co.

(Continued in next column)

Sonoco Products Co. (Cont'd)

NEW MEXICO
(El Paso).....Peterson Lumber Co.

OREGON
Portland.....W. J. Burke & Co.

UTAH
Salt Lake City.....Intermountain Concrete Specialties

WASHINGTON
Seattle.....W. J. Burke & Co.

WYOMING
(Denver).....K. C. Construction Supply Co.

Sonoairduct Distributors

ARIZONA
Phoenix.....American Sales Co.

CALIFORNIA (N)
San Francisco.....Tay-Holbrook, Inc.

CALIFORNIA (S)
Los Angeles.....W. J. Burke & Co.
Reliable Steel Co.

IDAHO
Boise.....Armstrong Supply Co.

NEVADA
Reno.....J. R. Bradley Co.

UTAH
Salt Lake City.....Armstrong Supply

SOULE STEEL CO.
1750 Army Street
San Francisco 19, California

PRODUCTS: Rigid Frame Steel Buildings; Pre-Fab Panel Forms; Steel Forms.

Factory Managers

ARIZONA
Phoenix—2026 S 11th Ave.....Richard Lewis

CALIFORNIA
Los Angeles—6200 Wilmington Ave.....Richard Cain
San Francisco—1750 Army St.....S. Nightingale

OREGON
Portland—3003 N.W. 35th Ave.....T. O. Carroll

WASHINGTON
Seattle—4100 W. Marginal Way.....Kenneth Archer

Sales Offices

CALIFORNIA
Fresno—850 R St.....S. Nightingale
Sacramento—5675 Freeport Blvd.....S. Nightingale
San Diego—1975 Fifth Ave.....Scott Anderson
San Jose—460 Park Ave.....S. Nightingale

OREGON
Eugene—315 W. Broadway.....T. O. Carroll

UTAH
Salt Lake City—
220 Greyhound Bldg.....George Halgedahl

WASHINGTON
Spokane—E. 41 Gray Ave.....Richard Lindstrom

DIRECT SALES ONLY

SOUTHWEST WELDING & MFG. CO.
3201 West Mission Road
Alhambra, California

PRODUCTS: Heavy Duty and Light Duty Pneumatic-Tired Compaction Rollers; Self-Propelled Pneumatic-Tired Rollers; Sheepfoot Tamping Rollers; Rippers; Sprinkler Tanks; Bottom Dump Wagons.

Distributors

ALASKA
(Seattle).....Northern Commercial Co.

ARIZONA
Phoenix.....Arizona Machinery Co.
Yuma.....Braden Machinery Co.

CALIFORNIA
Blythe.....Honnen Machinery Co.
Chico.....Peterson Tractor Co.
Colusa.....I. G. Zumwalt Co.
E. Los Angeles.....Shepherd Machinery Co.
El Centro.....Faure Tractor & Eqpt. Co.
Eureka.....Brizard-Matthews Mch. Co.
Fresno.....Budd & Quinn Inc.
Hanford.....Davies Machinery Co.
Marysville.....Marysville Tractor & Eqpt. Co.
Modesto.....Valley Tractor Co. (Nevada Corp.)
Napa.....Berglund Tractor & Eqpt. Co.
Oxnard.....Wallace Machinery Co.
Riverside.....Johnson Tractor Co.
Sacramento.....Weaver Tractor Co.
Salinas.....Pringle Tractor Co.
San Diego.....Hawthorne Machinery Co.
San Leandro.....Peterson Tractor & Eqpt. Co.
Santa Clara.....Ditz Bros.
Stockton.....Holt Bros.
Visalia.....Quinn Co.

(Continued in next column)

Southwest Welding & Mfg. Co. (Cont'd)

IDAHO
Boise.....Western Equipment Company

MONTANA
Billings.....Nash-Davis Machinery Co.
Great Falls.....Central Machinery Co.
Missoula.....Westmont Tractor Co.
Sidney.....Tractor & Equipment Co.

NEVADA
Las Vegas.....James Cashman Co.
Reno.....Crooks Bros. Tractor Company

OREGON
Eugene.....Pape Bros..
Klamath Falls.....Crater Lake Machinery Co.
La Grande.....Inland Machinery Co.
Pendleton.....Empire Machinery Co.
Portland.....Halton Tractor Co.

UTAH
Salt Lake City.....Wheeler Machinery Co.

WASHINGTON
Seattle.....N. C. Machinery Co.
Northern Commercial Co.
Spokane.....Byrne Machinery Co.
Tacoma.....N-C Machinery Co.
Wenatchee.....Columbia Tractor Co. of Wenatchee

WYOMING
Cheyenne.....Wortham Machinery Co.

SPEARS-WELLS MACHINERY CO.
1832 West Ninth Street, Box 4036
Oakland 23, California

PRODUCTS: Road and Airport Construction and Maintenance Equipment.

Distributors

CALIFORNIA
Los Angeles.....Crook Company
Oakland.....Spears-Wells Machinery Co.

NEVADA
Reno.....Sierra Machinery Co.

OREGON
Portland.....Cramer Machinery Co.

UTAH
Salt Lake City.....Arnold Machinery Co.

STANCO MFGS. & SALES, INC.
1666 Ninth Street
Santa Monica, California

PRODUCTS: Submersible Pumps; Hydraulic Trucks; Cranes; Rock Drills and Breakers; Woodworking Machines; X-Ray Diamond Drills

Distributors

ALASKA
Anchorage.....Craig Taylor Equipment & Supply Co.

ARIZONA
Phoenix.....Lee Redman Equipment Co.
Shriver Machinery Co.
Tucson.....Ed Holderness Supplies, Inc.

CALIFORNIA
Fresno.....Contractors Equipment & Supply Co.
Los Angeles.....Brown-Bevis Industrial Equipment Co.
Gridley Equipment Co.

San Diego.....Construction Machinery Co.

San Francisco.....McCormick & Morgan Co.

San Gabriel.....Taylor Jett Co.

Santa Clara.....Ditz Bros.

W. Sacramento.....Westcott Equipment & Mfg. Co.

COLORADO
Denver.....Colorado Pump & Supply Co.
Jacobs-Kerr Co.

MONTANA
Billings.....Hall-Perry Machinery Co.
Butte.....Hall-Perry Machinery Co.
Great Falls.....Hall-Perry Machinery Co.
Missoula.....Hall-Perry Machinery Co.

NEVADA
Reno.....Reno Equipment Sales Co.

NEW MEXICO
Albuquerque.....Rio Grande Sales & Engr. Co., Inc.

OREGON
Eugene.....Cramer Machinery Co.
Medford.....Cal-Ore Machinery Co.
Portland.....Cramer Machinery Co.

UTAH
Salt Lake City.....Cate Equipment Co.
Flinco, Inc.

WASHINGTON
Spokane.....Ferris Equipment Co.
Turner Sales Co.

Tacoma.....John W. Stang Co.

WYOMING
Casper.....Studer Tractor Co.
Riverton.....Mine & Mill Co.

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
Equitable Building, Portland

STANDARD STEEL CORP.
 5001 South Boyle Avenue
 Los Angeles 58, California

PRODUCTS: Asphalt Plants and Accessories; Rock and Sand Dryers; Dust Collectors; Subgraders.

Distributors

ALASKA
Anchorage.....Craig Taylor Equipment & Supply Co.
CALIFORNIA
Los Angeles.....Standard Steel Corp.
COLORADO
Denver.....Faris-Moritz Equipment Co.
IDAHO (S)
Boise.....Starline Equipment Co.
NEW MEXICO
Albuquerque.....N. C. Ribble Co.
OREGON
Portland.....Guthrie Machinery Co.
UTAH
Salt Lake City.....Archer Tractor & Machinery Co.
WASHINGTON
Seattle.....Washington Machinery Co.

STANDARD STEEL WORKS, INC.
 16th and Howell Avenue
 North Kansas City 16, Missouri

PRODUCTS: Bituminous Distributors; Maintenance Distributors; Tar Kettles; Road Brooms; Gravel Spreaders; Street Flushers; Asphalt Supply Tanks; Asphalt Tools; 2½ ton Tandem Rollers.

Distributors

ALASKA
Anchorage.....Craig Taylor Eqpt. & Supply Co.
ARIZONA
Phoenix.....Road Machinery Co.
CALIFORNIA
Los Angeles.....Santa Fe Equipment Co., Inc.
San Francisco.....Western Traction Co.
COLORADO
Denver.....Tudor Equipment Co.
IDAHO
Boise.....Engineering Sales & Service
MONTANA
Billings.....Western Construction Eqpt. Co.
NEVADA
Reno.....C. D. Roeder Equipment Co.
NEW MEXICO
Albuquerque.....R. L. Harrison Co.
UTAH
Salt Lake City.....Atlas Equipment Co.
WYOMING
Cheyenne.....Kerem Tractor & Equipment Co.

THE STEELCRAFT MFG. CO.
 9017 Blue Ash Road
 Cincinnati 42, Ohio

PRODUCTS: Steel Buildings, Doors and Frames.

Distributors

ALASKA
Anchorage.....Alaska Metal Buildings, Inc.
CALIFORNIA
San Leandro.....Alladin Heating Corp.
MONTANA
Missoula.....Liberty Construction Co.
NEVADA
Reno.....J. D. Hatcher Co.
NEW MEXICO
Albuquerque.....W. V. Lanham Co.
UTAH
Salt Lake City.....Intermountain Steel Products Co.

STEPHENS-ADAMSON MANUFACTURING CO.
 2227 East 37th Street
 Los Angeles 58, California

PRODUCTS. Ball Bearings; Car Pullers; Conveyors; Crushers; Crushing Rolls; Elevators; Feeders; Gates; Gravel Plants; Hand Winches; Hoists; Loaders; Mixers; Power Plants; Screens; Transmissions; Vibrators; Vibratory Screens; Washing Plants; Winches.

(Continued in next column)

Stephens-Adamson Mfg. Co. (Cont'd)
Factory Personnel

Los Angeles
Glenn Johannsen.....Sales Manager, Engineering Div.
Robert E. Durham.....West Coast Mgr., Standard Products Div.
Dale W. McCloud.....West Coast Mgr., Sealmaster Bearing Div.

District Managers

CALIFORNIA
San Francisco—145 Mission St.....R. J. Cooper
WASHINGTON
Seattle—709 Joseph Vance Bldg..Don D. Didrickson

Distributors

ARIZONA
Phoenix.....Semon Bearing & Supply Co.
CALIFORNIA
Los Angeles.....Degen-Fiege Co.
San Francisco.....S-A Products Co.
OREGON
Eugene.....Munnell & Sherrill, Inc.
Portland.....Munnell & Sherrill, Inc.
Roseburg.....Munnell & Sherrill, Inc.
UTAH
Salt Lake City.....C. H. Spencer & Co.

STERLING MACHINERY CO.
 1950 Santa Fe Avenue
 Los Angeles 21, California

PRODUCTS: Pumps—Self-Priming, Centrifugal; Air-Cooled and Liquid-Cooled Engine Driven and Electric Motor Driven, Diaphragm and Two-Man Suction Dredge. Hoists—Contractors', Material Handling.

Distributors

ARIZONA
Phoenix.....Pratt-Gilbert Hardware Co.
Tucson.....F. Ronstadt Hardware Co.
Yuma.....Hartnett & Braden Tractor Co.
CALIFORNIA
Bakersfield.....Janco Pump & Engineering Co.
Los Angeles.....American Pump Co.
Oakland.....Pacific Pumping Co.
Salinas.....Farmer's Mercantile Co.
San Francisco.....Charles E. Lowe Co.
Shafter.....Shafter Pump & Machine Co.
Watsonville.....Farmer's Mercantile Co.
COLORADO
Denver.....H. W. Moore Equipment Co.
IDAHO
Idaho Falls.....Parkinson Tractor Co.
MONTANA
Billings.....Billings Pipe & Supply
Missoula.....Westmont Tractor & Equipment Co.
NEW MEXICO
Elmira.....United Supply & Manufacturing Co.
Hobbs.....United Supply & Manufacturing Co.
Lovington.....United Supply & Manufacturing Co.
OREGON
Portland.....Pump, Pipe & Power Co.
UTAH
Salt Lake City.....Nickerson Pump & Machinery Co., Inc.
WASHINGTON
Seattle.....Andrews Machinery Co. of Washington
The Carrington Co.
Spokane.....Modern Machinery Co., Inc.
WYOMING
Sheridan.....Sheridan Iron Works, Inc.

STOW MANUFACTURING CO.
 443 State Street
 Binghamton, New York

PRODUCTS: Concrete Vibrators; Concrete Vibrating Screens; Concrete Vibrating Sced Packages; Rotary Trowels; Portable Concrete Grinding Machines and Accessories; Flexible Shafts; Flexible Shaft Take-Off Drives for Dump Trailers; Space Heaters; Ceiling Grinders; Tampers.

Regional Representatives

CALIFORNIA
Los Angeles—230 E. Anaheim Blvd...Walter Humes
San Francisco—445 Bryant St.....A. C. Cope

Distributors

ALASKA
Anchorage.....Bashaw Equipment Co.
Fairbanks.....Miller, Bentley & Bashaw Eqpt. Co.

(Continued in next column)

Stow Manufacturing Co. (Cont'd)

CALIFORNIA
Inglewood.....C. P. Concrete Equipment Co.
Oakland.....C. P. Concrete Equipment Co.
COLORADO
Denver.....Accessory Supply Co.
IDAHO
Boise.....G-K Machinery Co.
MONTANA
Billings.....Industrial Equipment Co.
Butte.....Pioneer Equipment Co.
Great Falls.....Carl Weisman & Sons
Kalispell.....Treasure State Equipment Co.
Missoula.....Westmont Tractor & Equipment Co.
NEW MEXICO
Albuquerque.....W. J. Burke & Co.
OREGON
Portland.....West Pacific Sales Co.
UTAH
Salt Lake City.....J. T. Holland Co.
WASHINGTON
Seattle.....Hatten Machinery Co.
WYOMING
Casper.....Moss Equipment & Supply Co.

STRAN-STEEL CORP.

Ecorse
 Detroit 29, Michigan

PRODUCTS: Pre-Engineered Steel Buildings (Rigid Frame, Stran-Master, Quonset); Architectural Steel (Joists, studs, beams, roof decks, C-sections, columns, channels).

Factory Branch Manager

CALIFORNIA
San Francisco—
703 Market St., Rm. 1707.....G. G. Gatchell

Distributors

ALASKA
Fairbanks.....W. M. Regan
ARIZONA
Phoenix.....Young Steel Buildings, Inc.
CALIFORNIA
Bakersfield.....Steel Sales & Supply Co.
Chicago.....Modern Building Co.
Eureka.....Dick J. Barrett
Lancaster.....Bergman & Turner
Long Beach.....Federal Steel Corp.
Oakland.....Camping Corp.
San Diego.....Standard Iron Supply
San Jose.....O. E. Anderson
Santa Barbara.....Kenneth C. Urton
W. Sacramento.....Western Millwright Co.
COLORADO
Denver.....Denver Steel Products Co.
Grand Junction.....Miller Steel, Inc.
Greeley.....Denver Steel Products Co.
Lamar.....W. A. Dillon Steel Bldg. Co.
Trinidad.....Barney's Garage & Implements
IDAHO
Boise.....Babbitt Construction Co.
Twin Falls.....Reynolds & Walker, Inc.
MONTANA
Kalispell.....Ekstrand Steel Buildings
NEVADA
Las Vegas.....Taylor Steel Co.
Reno.....Reno Iron Works
NEW MEXICO
Clovis.....Dura-Bilt Products Co.
Deming.....James Walter Donaldson
Hatch.....Farmers Market & Supply
 Lordsburg.....Dick Dockum
 Lovington.....Badgett Steel Bldgs. Co.
OREGON
Grants Pass.....Ausland Construction Co.
Pendleton.....Irons Lumber Co.
Portland.....Ken Ward Steel Buildings
Tillamook.....Castle Steel Buildings
UTAH
Salt Lake City.....Titan Steel Corp.
WASHINGTON
Olympia.....Barton-Swanson Steel Buildings
Seattle.....Craigien, Rank & Co.
Spokane.....Sceva Steel Buildings
Waterville.....Viebrock Steel Bldg. Co.
Yakima.....W. W. Nettleship Bldgs. Co.

STRAUB MANUFACTURING CO., INC.
 8383 Baldwin Street
 Oakland 21, California

PRODUCTS: Rock Crushers (Jaw and Gyratory); Ball Mills; Rod Mills; Feeders.

(Continued on next page)

**C. I. T.'s Pay-As-You-Depreciate Plan provides
 long term financing for Contractors**

Straub Manufacturing Co., Inc. (Cont'd)**Distributors**

ARIZONA	
Phoenix.....	O. S. Stapley
CALIFORNIA	
Berkeley.....	West Coast Engine & Equipment Co.
Los Angeles.....	Garlinghouse, Fremont Co.
Oakland.....	Straub Manufacturing Co.
NEVADA	
(Oakland).....	Straub Manufacturing Co.
OREGON	
Portland.....	Contractors Equipment Co.
UTAH	
Salt Lake City.....	Lund Machinery Co.
WASHINGTON	
Seattle.....	Washington Machinery Co.
Spokane.....	Washington Machinery Co.

SUPERIOR CEMENT TOOL CORP.

11616 Wright Road
Lynwood, California

PRODUCTS: Cement Finishing Machines.

Distributors

ARIZONA	
Phoenix.....	Equipment Sales Co.
	State Tractor & Equipment
Tucson.....	State Tractor & Equipment
Yuma.....	Yuma Builders Supply
CALIFORNIA	
Fresno.....	Contractors Equipment & Supply
N. Hollywood.....	Oliphant Brothers
Huntington Park.....	Thrallkill Equipment
Los Angeles.....	Essick Manufacturing Co.
	Garlinghouse, Fremont Co.
	Herouf-Deco, Inc.
	Mine & MHI Machinery
	Rental Yard Supply
Northridge.....	Northridge Equipment Co.
Oakland.....	Ricker Machinery Co.
Ontario.....	A & A Equipment Co.
Orange.....	Roseborough Tool
Oxnard.....	Goold Hardware & Supply
San Diego.....	Patterson Equipment Co.
San Francisco.....	Essick Manufacturing Co.
Santa Ana.....	Essick Manufacturing Co.
	Orange County Equipment
Temple City.....	Concrete Specialties
Venice.....	Great Western Equipment
COLORADO	
Denver.....	Universal Co.
IDAHO	
Boise.....	Contractors Equipment & Supply
	Safway Scaffolds Co.
NEVADA	
Las Vegas.....	Blystone Equipment Co.
NEW MEXICO	
Albuquerque.....	J. D. Coggins Co.
OREGON	
Portland.....	George M. Philpott Co., Inc.
UTAH	
Salt Lake City.....	Contractors Equipment & Supply
WASHINGTON	
Seattle.....	A. H. Cox & Co.
Spokane.....	Ace Sand & Gravel
	Concrete Supplies

SUPERIOR CONCRETE ACCESSORIES, INC.

9301 King Street
Franklin Park, Illinois

PRODUCTS: Snap Ties; Cone Fast Coll Ties; She-bolts; Tilt-up Slab Pick-up Inserts; Reinforcing Bar Chairs and Spacers; 1 1/2" All-Ply Panel Forms.

Factory Branch

CALIFORNIA	
San Leandro—2100 Williams St.....	H. G. Bailou

Distributors

ALASKA	
Anchorage.....	Anchorage Sand & Gravel Co., Inc.
ARIZONA	
Phoenix.....	Building Specialties Supply
CALIFORNIA	
Los Angeles.....	Thomas Concrete Accessory Co.
Sacramento.....	A. W. Burrows
IDAHO	
Caldwell.....	General Steel Erectors, Inc.
Idaho Falls.....	Ready-to-Pour Concrete Co.
Pocatello.....	Lumber Dealers Supply

(Continued in next column)

Superior Concrete Accessories (Cont'd)

NEVADA	
Reno.....	Ready-Mix Concrete Co.
OREGON	
Portland.....	Mercer Steel Co., Inc.
UTAH	
Salt Lake City.....	Mitchell Concrete Accessories Co.
WASHINGTON	
Seattle.....	Construction Supplies Co.
Spokane.....	Concrete Supplies Co.

SUPERIOR EQUIPMENT

102 East Dundee Road
Wheeling, Illinois

PRODUCTS: Rear-mounted Blades; Rear-mounted Scarifiers and Scrapers; Front End Loaders.

Western Regional Manager
for the 12 Western states

ILLINOIS	
Wheeling—c/o Superior Equipment Co.	
102 E. Dundee Rd.....	Lyn Elmore

THE SUPERIOR EQUIPMENT CO.

Box 30
Bucyrus, Ohio

PRODUCTS: Tractor Mounted Swing Cranes; Side Booms; Erection Booms; Angle Fillers; Bucket Backfillers; Pipe Tongs; Pipe Dolies; Pipe Welding Clamps; Steel Blocks.

Distributors

ALASKA	
Anchorage.....	The Carrington Co.
Fairbanks.....	The Carrington Co.
ARIZONA	
Phoenix.....	Copper State Tractor Co.
Tucson.....	F. Ronstadt Hardware Co.
CALIFORNIA	
Eureka.....	Howard Cooper Corp. of Calif.
Five Points.....	Allied Equipment Co.
Fresno.....	Allied Equipment Co.
Los Angeles.....	Brown-Bemis Industrial Eqt. Co.
Madera.....	Allied Equipment Co.
Oakland.....	Bay Cities Equipment, Inc.
Redding.....	Howard Cooper Corp. of Calif.
Reedley.....	Allied Equipment Co.
Riverside.....	Brown-Bemis Industrial Equipment Co.
Sacramento.....	Sacramento Valley Tractor Co.
Salinas.....	Farmers Mercantile Co.
San Jose.....	Bay Cities Equipment, Inc.
Santa Rosa.....	Stevenson Equipment Co., Inc.
Stockton.....	Delta Tractor Co.
Watsonville.....	Orton's Equipment Co., Inc.
	Farmers Mercantile Co.
COLORADO	
Denver.....	H. W. Moore Equipment Co.
Durango.....	H. W. Moore Equipment Co.
Grand Junction.....	H. W. Moore Equipment Co.
IDAHO	
Idaho Falls.....	Lang Construction Equipment Co.
MONTANA	
Billings.....	Industrial Equipment Co.
Great Falls.....	Power Equipment Co.
Kalispell.....	Treasure State Equipment Co.
Missoula.....	Treasure State Equipment Co.
NEVADA	
Reno.....	Sanford Tractor & Equipment Co.
NEW MEXICO	
Albuquerque.....	J. D. Coggins Co.
Farmington.....	J. D. Coggins Co.
OREGON	
Albany.....	Howard Cooper Corp.
Central Point.....	Howard Cooper Corp.
Coquille.....	Howard Cooper Corp.
Eugene.....	Howard Cooper Corp.
Pendleton.....	Pendleton Grain Growers, Inc.
Portland.....	Howard Cooper Corp.
Roseburg.....	Howard Cooper Corp.
UTAH	
Salt Lake City.....	Lang Construction Eqt. Co.
WASHINGTON	
Seattle.....	The Carrington Co.
	Howard Cooper Corp.
Spokane.....	Modern Machinery Co., Inc.
WYOMING	
Casper.....	Kereml Tractor & Equipment Co.
Cheyenne.....	Kereml Tractor & Equipment Co.

SUPERIOR-LIDGERWOOD-MUNDY CORP.

1101 John Avenue
Superior, Wisconsin

PRODUCTS: Hoisting Machinery; Car Pullers.

Distributors

ARIZONA	
Phoenix.....	Western Machinery Co.
CALIFORNIA	
Los Angeles.....	Brown-Bemis Industrial Eqt. Co.
San Francisco.....	George E. Swett & Co.
COLORADO	
Denver.....	Western Machinery Co.
OREGON	
Portland.....	Loggers & Contractors Mch. Co.
UTAH	
Salt Lake City.....	Western Machinery Co.
WASHINGTON	
Seattle.....	Pacific Hoist & Derrick Co.
Spokane.....	Western Machinery Co.

SUPERIOR SCAFFOLD CO.

5624 Bankfield Avenue
Culver City, California

PRODUCTS: Auto Lock Tubular Steel Scaffolds; Rolling Scaffolds; Water Jacks; Stud Jacks; Jiffy Jacks; Trestles, all types; Mortar Board Stands.

Distributors

Distributed through Equipment Dealers and selected Building Material Dealers.

SVENSKA MOTORBÖR

AKTIEBOLAGET
Stockholm-Solna
Sweden

Subsidiary Company: Motoramic, Inc., 67-11 Main St., Flushing, New York

PRODUCTS: Pumps; Portable Rock Drills and Breakers; Bar Croppers; Swedish Drill Steels.

Distributors

CALIFORNIA	
Oakland.....	McCullough Crane & Hoist Co.
UTAH	
Salt Lake City.....	Machinery Center, Inc.

SYMONS BROTHERS CO.

11551 Hart Street
North Hollywood, California

PRODUCTS: Vibrating Screens and Grizzlies.

Distributors

CALIFORNIA	
San Francisco.....	Edward R. Bacon Co.
IDAHO	
Boise.....	Intermountain Equipment Co.
Pocatello.....	Intermountain Equipment Co.
UTAH	
Salt Lake City.....	Cate Equipment Co.
WASHINGTON	
Seattle.....	Washington Machinery Co.

SYMONS CLAMP & MFG. CO.

4249 Diversey Avenue
Chicago 39, Illinois

PRODUCTS: Concrete Forms; Column Clamps; Adjustable Shores; Form Hardware and Ties.

Factory Branch Managers

CALIFORNIA	
San Leandro—683 Thornton St.....	J. Frank Pearson
OREGON	
Portland—318 NE Couch St.....	H. L. Priest

Distributors

ARIZONA	
Phoenix.....	Border Products, Inc.
COLORADO	
Denver.....	Contractors Equipment & Supply Co.
UTAH	
Salt Lake City.....	Contractors Eqt. & Supply Co.

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
Equitable Building, Portland

ALBERT TRAILERS, INC.

**7950 West 47th Street
Lyons, Illinois**

PRODUCTS: Removable Gooseneck Low Bed Trailers; Machinery Trailers; Tilt Trailers; Dump Trailers; Pole Trailers; Mobile Crane-Mounts.

Distributors

ASKA
Anchorage.....Miller & Bentley-Bashaw Eqpt. Co.
CALIFORNIA
San Francisco.....Heil Equipment Co.
MONTANA
Great Falls.....Power Equipment Co.
UTAH
Salt Lake City.....Rocky Mountain Machinery Co.
WYOMING
Cheyenne.....Wilson Equipment & Supply Co.

AMPO MANUFACTURING CO.

**1146 West Laurel Street
P.O. Box 4248, Sta. A.
San Antonio 7, Texas**

PRODUCTS: Pneumatic Tired Rollers, towed type and self-propelled; Vibratory Rollers; Compactors; Sheepfoot Tamping Rollers; Batching Plants; Bins; Conveyors; Storage Bins; Weighing Batchers.

Distributors

ASKA
Anchorage.....Bashaw Equipment Co.
ARIZONA
Phoenix.....Western Machinery Co.
CALIFORNIA
Los Angeles.....Smith-Booth-Usher Co.
San Francisco.....Edward R. Bacon Co.
COLORADO
Denver.....Western Machinery Co.
IDAHO
Boise.....Intermountain Equipment Co.
MONTANA
Great Falls.....NorMont Equipment Co.
Missoula.....Mountain Tractor Co.
NEVADA
(San Francisco).....Edward R. Bacon Co.
NEW MEXICO
Albuquerque.....Lively Equipment Co.
OREGON
Portland.....Howard-Cooper Corp.
UTAH
Salt Lake City.....Kimball Equipment Co.
WASHINGTON
Seattle.....Howard-Cooper Corp.
Spokane.....Intermountain Equipment Co.
WYOMING
Casper.....Studer Tractor & Equipment Co.

HOWARD F. TAYLOR CO.

**1237 Shoshone Street
Denver 4, Colorado**

PRODUCTS: Tampers; Snow Removal Equipment.

Distributors for Triplex Tampers

Authorized dealer or distributor of air equipment.

**Distributors for Snowblast
Snow Removal Equipment**

CALIFORNIA
San Francisco.....Edward R. Bacon Co.
IDAHO
(Salt Lake City).....Lang Construction Equipment Co.
(Idaho, Nevada, Utah)

TEALE & COMPANY

**1417 North 52nd Street
Omaha, Nebraska**

PRODUCTS: Bulldozers, Front-end Loaders for crawler tractors; Truck Cranes.

Western Personnel

ARIZONA
Phoenix.....
P. O. Box 2406....Reading Overstreet, Dist. Mgr.

(Continued in next column)

Teale & Company (Cont'd)

CALIFORNIA

Southgate.....
10825 Sessler St.....Les Blackwood, Sales Mgr.
Stockton.....
1869 W Rose.....J. E. McGinness, Reg. Mgr.

Distributors

ARIZONA
Phoenix.....O. S. Stapley Co.
Tucson.....Equipment Sales & Service
CALIFORNIA
Long Beach.....Crescent Hydraulic Crane Co.
San Diego.....Kenton Equipment Co.
Southgate.....Hydraulic Tool & Eqpt. Co., Inc.
MONTANA
Great Falls.....Normont Equipment Co.
NEW MEXICO
Albuquerque.....Sandia Tractor & Impl. Co.
WASHINGTON
Seattle.....Air Mac, Inc.

TEMPLETON, KENLY & CO.

**16th and Gardner Road
Broadview, Illinois**

PRODUCTS: Simplex Jacks, Mechanical and Hydraulic; Lever Jacks for speedy cap and toe lifting; Screw Jacks for economy; Push and Pull Jacks for assembly and maintenance; Drop Forged Steel Trench and Timber Braces; Hydraulic Jacks for easier cap lifting; 30-100 ton capacity Jenny Center-Hole Hydraulic Pullers self-contained; "Remotrol" Hydraulic Pullers with remote controlled Rams and Pumps, models 10 to 600 ton rated capacity; Roll-Toe Foot Lift Hydraulic Jacks; Simplex line of 2 and 3 Hook and Push Pullers complete, 20 and 30 tons.

Branch Office

CALIFORNIA
Los Angeles—1635 E. 22nd St.c/o Wm. S. Pine

Western District Sales Manager

CALIFORNIA
Concord—720 Bancroft Rd.W. H. Zepp

Distributors

ARIZONA
Douglas.....Phelps-Dodge Corp.
Phoenix.....Arizona Hardware Co.
Pratt Gilbert Hardware Co.
CALIFORNIA
Bakersfield.....Hopper Machine Works, Inc.
Long Beach.....American Wholesale Hardware Co.
Los Angeles.....Bethlehem Supply Co. of Calif.
California Hardware Co.
Ducommun Metals & Supply Co.
Fornaciari Co.
Howard Supply Co.
Oil Well Supply Co.
Republic Supply Co. of California
J. G. Tucker & Son
Union Hardware & Metals Co.
Sacramento.....L & G Specialties
Thomson Digs Co.
San Diego.....Gould Hardware & Machinery Co.
Western Metal Supply Co.
San Francisco.....Edward R. Bacon Co.
Baker & Hamilton
C. H. Bull Co.
Gilmore Steel & Supply Co.
A. J. Glasener Co.
San Leandro.....Republic Supply Co. of California
Torrance.....National Supply Co. of California

COLORADO
Denver.....Mine & Smelter Supply Co.

IDAHO
Boise.....Intermountain Equipment Co.
Pocatello.....Intermountain Equipment Co.
Wallace.....Coeur d'Alene Hdwe. & Fdry. Co.

MONTANA
Billings.....Great Northern Tool & Supply Co.
Butte.....Hall-Perry Machinery Co.
Montana Hardware Co.
Kalispell.....Westmont Tractor & Equipment Co.
Great Falls.....Carl Weissman & Sons, Inc.

NEVADA
Reno.....Sierra Machinery Co.

NEW MEXICO
Albuquerque.....Contractors Equipment & Supply Co.
R. L. Harrison Co., Inc.
J. Korber & Co.
Lively Equipment Co.
Artesia.....Allied Supply Co.
Union Supply Co., Inc.
Carlsbad.....Union Industrial Corp.

(Continued in next column)

Templeton, Kenly & Co. (Cont'd)

OREGON

Astoria.....Fisher Brothers Co.
Corvallis.....Roesser's Hardware Co.
Klamath Falls.....Lorenz Company
Portland.....J. E. Haseltine & Co.
Northern Wholesale Hdwe. Co.

UTAH

Salt Lake City.....Industrial Supply Co.
Mine & Smelter Supply Co.

WASHINGTON

Seattle.....The Carrington Co.
Campbell Industrial Supply Co.
Clyde Equipment Co.
Peterson Wholesale Hardware Co.
Seattle Hardware Co.
Star Machinery Co.
Yukon Equipment, Inc.
Spokane.....J. E. Haseltine & Co.
Intermountain Equipment Co.
Towne Equipment Co.
Tacoma.....Hunt & Mottet Co.
Yakima.....Yakima Hardware Co.

Hydraulic Service Stations

CALIFORNIA
Los Angeles.....Fornaciari Co.
Sacramento.....L & G Specialties
San Francisco.....C. H. Bull Co.

COLORADO

Denver.....Quinn & McGill Motor Supply Co.

MONTANA

Great Falls.....H. W. Ludwig's Hyd. Jack Service

OREGON

Portland.....Equipment Service Co.

UTAH

Salt Lake City.....Wilson's Transport Supply

WASHINGTON

Seattle.....Universal Repair Shop

THERMOID COMPANY

**Nephi Works
Nephi, Utah**

PRODUCTS: Conveyor, Elevator and Transmission Belting; Automotive Fan Belts; Complete line of Hose Packing; Brake Lining; Molded Rubber Products; Tank and Pipe Lining and Specialty Products.

Northern Pacific District Manager

CALIFORNIA
So. San Francisco—
129 S. Sylvester St.....R. J. Labyak
(No. Calif., Colo., Ida., Mont., Nev., Ore., Utah, Wash., Wyo.)

Southern Pacific District Manager

Los Angeles—1100 S. Santa Fe Ave....J. W. Minnock
(So. Calif., Ariz., New Mex.)

Distributors

CALIFORNIA
Fresno.....Bearing Supply Co.
Los Angeles.....Victor Belting & Rubber Co.
Ontario.....Valley Industrial Supply Co.
San Diego.....Winn Supply Co.
Stockton.....Guntert & Zimmerman
COLORADO
Denver.....Midwest Rubber & Supply Co.
IDAHO
Boise.....Idaho Industrial Supply Co.
Pocatello.....Flaherty Manufacturing Co.
MONTANA
Missoula.....Westmont Tractor Co.
NEVADA
Fallon.....Bernie Spencer Industrial Sales & Service
WYOMING
Casper.....Emerick & Hill Engine & Eqpt. Co.

THEW SHOVEL CO.

Lorain, Ohio

PRODUCTS: Power Shovels; Draglines; Cranes; Hoes; Clamshells; Front End Loaders.

District Sales Managers

CALIFORNIA
Campbell—399 Dunster Dr.....F. L. Johnson
OREGON
Portland—5217 NE 35th Pl.....S. S. Rockwood

Distributors

ALASKA
Anchorage.....Yukon Equipment, Inc.
ARIZONA
Phoenix.....Lee Redman Equipment Co.

(Continued on next page)

**C. I. T.'s Pay-As-You-Depreciate Plan permits
payments out of depreciation**

Thew Shovel Co. (Cont'd)

CALIFORNIA	
Los Angeles.....	Santa Fe Equipment Co., Inc.
San Bernardino.....	Santa Fe Equipment Co., Inc.
San Francisco.....	Coast Equipment Co.
IDAHO	
Boise.....	Southern Idaho Eqp't. Sales Co.
Idaho Falls.....	Southern Idaho Eqp't. Sales Co.
Twin Falls.....	Southern Idaho Eqp't. Sales Co.
MONTANA	
Billings.....	Nash-Davis Machinery Co.
Bozeman.....	Nash-Davis Machinery Co.
Glasgow.....	Tractor & Equipment Co.
Great Falls.....	Central Machinery Co.
Havre.....	Central Machinery Co.
Kallispell.....	Mountain Tractor Co.
Lewiston.....	Central Machinery Co.
Miles City.....	Tractor & Equipment Co.
Missoula.....	Mountain Tractor Co.
Sidney.....	Tractor & Equipment Co.
NEVADA	
Reno.....	General Equipment Co.
OREGON	
Eugene.....	Interstate Tractor & Eqp't. Co.
Portland.....	Interstate Tractor & Eqp't. Co.
UTAH	
Salt Lake City.....	Atlas Equipment Co.
WASHINGTON	
Seattle.....	Hatten Machinery Co.
Spokane.....	Andrews Equipment Service
WYOMING	
Greybull.....	Nash-Davis Machinery Co.

THOR POWER TOOL CO.
 175 North State Street
 Aurora, Illinois

PRODUCTS: Paving Breakers; Rock Drills; Clay Diggers; Trench Diggers; Backfill Tampers; Wagon Drills; Sump Pumps; Cement Hammers; Associated Mining and Contractors' Tools; Power Trowels; Vibratory Screeds; Air and Electric Concrete Vibrators.

Factory Branches

CALIFORNIA	
Los Angeles—6200 E. Slauson Ave....	C. H. Gabriel
San Francisco—315 S. Van Ness Ave....	B. J. Herron
COLORADO	
Denver—2704 W. 8th Ave.....	M. A. Sorenson
WASHINGTON	
Seattle—414-8th Ave N.....	A. W. Escoffier

Distributors

ARIZONA	
Phoenix.....	Western Machinery Co.
CALIFORNIA	
Bishop.....	Black's Machine Shop
Los Angeles.....	Smith-Booth-Usher Co.
San Francisco.....	Edward R. Bacon Co.
COLORADO	
Denver.....	Western Machinery Co.
IDAHO	
Boise.....	The Sawtooth Co.
Coeur d'Alene.....	Gardner Supply Co.
MONTANA	
Butte.....	Butte Machinery Co.
Great Falls.....	Central Machinery Co.
Helena.....	Montana Powder & Equipment Co.
Sidney.....	Tractor & Equipment Co.
NEVADA	
Las Vegas.....	James Cashman Co.
NEW MEXICO	
Albuquerque.....	J. D. Coggins Co.
OREGON	
Portland.....	Feenaughty Machinery Co.
UTAH	
Midvale.....	Utah Bit & Steel Co.
Salt Lake City.....	Western Machinery Co.
WASHINGTON	
Seattle.....	A. H. Cox & Co.
Spokane.....	Yukon Equipment Co.
WYOMING	
Cheyenne.....	Wortham Machinery Co.

THURMAN SCALE CO.
 156 North Fifth Street
 Columbus 16, Ohio

PRODUCTS: Heavy Duty Industrial Scales (Pit & Pit-less); Portable & Pit Truck Scales; Batch Scales (Manual Beam & Dial Types); Batch Scales (Automatic Beam & Dial Scales); Weight Printers and Recorders; Dormant or Warehouse Scales; Wheelbarrow Scales; Water Tank Scales.

(Continued in next column)

Thurman Scale Co. (Cont'd)**Distributors**

ARIZONA	
Phoenix.....	Western Machinery Co.
CALIFORNIA	
Los Angeles.....	Shaw Sales & Service Co.
San Francisco.....	Western Machinery Co.
COLORADO	
Denver.....	Western Machinery Co.
Grand Junction.....	S & M Supply Co.
IDAHO	
Boise.....	Arnold Machinery Co.
MONTANA	
Billings.....	Industrial Equipment Co.
Great Falls.....	Monty Machinery Co.
Kallispell.....	Treasure State Equipment Co., Inc.
Missoula.....	Mountain Tractor Co.
NEW MEXICO	
Albuquerque.....	Harry Cornelius Co., Inc.
	Leonard Motor Co., Inc.
OREGON	
Portland.....	Clyde Equipment Co.
UTAH	
Salt Lake City.....	Arnold Machinery Co., Inc.
	Foulger Equipment Co.
WASHINGTON	
Seattle.....	Air Mac, Inc. of Washington
	Clyde Equipment Co.
Spokane.....	Inland Diesel & Truck Co.
	Tri-State Equipment Co.
WYOMING	
Cheyenne.....	Wilson Equipment & Supply Co.
	Wortham Machinery Co.

THE TIMKEN ROLLER BEARING CO.
 Canton 6, Ohio

PRODUCTS: Tapered Roller Bearings; Removable Rock Bits; Alloy Steel Bars and Billets; Seamless Steel Tubing.

Factory Branches

CALIFORNIA	
Los Angeles—2727 South Flower St.	
San Francisco—1452 Bush Street	
COLORADO	
Denver—2140 East 45th Ave.	
WASHINGTON	
Seattle—305 Ninth Ave. North	

TORO MANUFACTURING CORP.
 3042 Snelling Avenue
 Minneapolis 6, Minnesota

PRODUCTS: Tractors—Bullet-General w/dump box; Parkmaster 7 unit
 Gang Mowers—Spartans 30" and Roughmaster 30"
 Rotary Mowers—80" Whirlwind w/mulcher available; Whirlwind 24", 31" and 32"
 Reel Mowers—Professional 76" 3 unit w/power steering; Park Special 30"; Pony Starlawn 27"; Caster Starlawn 27"; Greenmaster 21".

District Sales Representative

CALIFORNIA	
Los Altos—483 Gabilan.....	W. H. Brinkworth

Distributors

ALASKA	
(Seattle).....	Washington Turf & Toro Co.
ARIZONA	
Phoenix.....	The Norton Co.
CALIFORNIA	
Los Angeles.....	Pacific Toro Co.
Sacramento.....	Valley Toro Sales
San Francisco.....	California Toro Sales
COLORADO	
Denver.....	Barteldes Seed Co.
IDAHO	
(Salt Lake City).....	The Salt Lake Hardware Co.
MONTANA	
Billings.....	Montana Toro Sales Co.
Kallispell.....	Manions
NEVADA	
(Sacramento).....	Valley Toro Sales
(Salt Lake City).....	The Salt Lake Hardware Co.
NEW MEXICO	
(Denver).....	Barteldes Seed Co.
(El Paso).....	Myers Equipment Co.
(Salt Lake City).....	The Salt Lake Hardware Co.
OREGON	
Portland.....	Western Golf Course Supply Co.
UTAH	
Salt Lake City.....	The Salt Lake Hardware Co.
WASHINGTON	
Seattle.....	Washington Turf & Toro Co.
WYOMING	
Sheridan.....	Wyoming Toro Co.
(Denver).....	Barteldes Seed Co.
(Salt Lake City).....	The Salt Lake Hardware Co.

TOWNER MANUFACTURING CO.

2111 West 17th Street
 Santa Ana, California

PRODUCTS: Aerating and Mixing Plows; Wheel type and regular Mobile Carriers with tool bars, shanks, subsoilers.

Western Personnel

MONTANA	
Great Falls—1322-16th St. So....	Edward Whitcomb

Distributors

ARIZONA	
(Fresno).....	Towner-Meyer Co.
CALIFORNIA	
Colton.....	Towner-Meyer Co.
COLORADO	
Denver.....	Western Machinery Co.
IDAHO	
(Salt Lake City).....	Western Machinery Co.
NEW MEXICO	
(Stockton).....	Towner-Meyer Co.
OREGON	
(Yakima).....	Rankin Equipment Co.
UTAH	
Salt Lake City.....	Western Machinery Co.
WASHINGTON	
Yakima.....	Rankin Equipment Co.

TRACTOMOTIVE CORPORATION

County Line Road
 Deerfield, Illinois

PRODUCTS: Tracto-Loaders (rubber-tired front end loaders); Tracto-Shovels (crawler mounted hydraulic shovels); Tracto-Rippers (hydraulic rippers for Allis-Chalmers crawler tractors); Tracto-Log Tongs (hydraulic log tongs for Allis-Chalmers crawler tractors).

District Managers

CALIFORNIA	
Oakland—	
400 Santa Clara Ave., Apt. 17....	N. K. Rasmussen
OREGON	
Beaverton—4240 SW 110th St.....	W. D. Rankin

Distributors

Allis-Chalmers Construction Equipment Dealers and Branches.

TRAFFIC EQUIPMENT CO.

2064 South Bannock Street
 Denver 23, Colorado

PRODUCTS: 4" and 7" Flashing Lights and Mounting Brackets; Flashing Light Barricades; Portable and Permanent Steel Barricades; Metal hole Guards; Tripods, Extensions; Flags and Stacks; Sign Brackets and Holders; Steel Bridge Wings; Traffic Control Devices.

Distributors

ARIZONA	
Phoenix.....	O. S. Stapley Co.
CALIFORNIA	
N. Hollywood.....	Stanley F. Gotter Co.
COLORADO	
Denver.....	C & C Tire Co.
	McDonald Equipment Co.
IDAHO	
Boise.....	Starline Equipment Co.
MONTANA	
Billings.....	Hall-Perry Machinery
Butte.....	Hall-Perry Machinery
Great Falls.....	Hall-Perry Machinery
Missoula.....	Hall-Perry Machinery
NEW MEXICO	
Albuquerque.....	C. E. Mitcham
OREGON	
Portland.....	Sanderson Safety Equipment
	Traffic Safety Supply
UTAH	
Salt Lake City.....	Holland Equipment
WASHINGTON	
Seattle.....	Sahlberg Equipment

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
 Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
 Equitable Building, Portland

TRAILMOBILE, INC.
901 Gilman Street
Berkeley 10, California

PRODUCTS: Commercial Truck-Trailers.

Factory Branch Managers

ARIZONA
Phoenix—2214 N. 27th Ave.....Keith Laizure
CALIFORNIA
Fresno—2626 Railroad Ave.....Robert Holmes
Los Angeles—1765 E. 46th St.....Frank Reuter
Oakland—640 Hegenberger Rd.....W. A. Grange
Sacramento—510 N. 12th St.....J. M. Smith
San Francisco—2030-3rd St.....R. H. Reece
COLORADO
Denver—5200 Colorado Blvd.....Darell Cammack
UTAH
Salt Lake City—365 W. 1370 So.....E. S. Barrett

West Coast Sales

CALIFORNIA
Berkeley—2950-7th St.....A. Waddell, Vice Pres.

Resident Salesman

DAHO
Boise—702 Pearl St.....H. A. Boe
MONTANA
Billings—316 N. 25th St.....Wayne Johnson

Distributors

OREGON
Portland.....Riddell Trailer Co.
WASHINGTON
Seattle.....Riddell Trailer Co.

TRANSPORT TRAILERS, INC.
1200 12th Street Southwest
Cedar Rapids, Iowa

PRODUCTS: Heavy-duty Trailers; Lowbeds; Platforms; Tilt Trailers; Dump Trailers; Beam Trailers; Removable Gooseneck Trailers; Trailer Dollies.

Distributors

ALASKA
Anchorage.....Craig Taylor Equipment & Service Co.
ARIZONA
Phoenix.....Arizona Cedar Rapids Co.
Tucson.....F. Ronstadt Hardware Co.
CALIFORNIA
Berkeley.....West Coast Engine & Equipment Co.
COLORADO
Denver.....H. W. Moore Equipment Co.
IDAHO
Boise.....Feenaughty Machinery Co.
Idaho Falls.....Arnold Machinery Co., Inc.
MONTANA
Billings.....Montana Powder & Equipment Co.
Helena.....Montana Powder & Equipment Co.
NEVADA
Reno.....Sierra Machinery Co.
NEW MEXICO
Albuquerque.....J. D. Coggins Co.
OREGON
Portland.....Feenaughty Machinery Co.
UTAH
Salt Lake City.....Arnold Machinery Co.
WASHINGTON
Seattle.....Feenaughty Machinery Co.
Spokane.....Feenaughty Machinery Co.
WYOMING
Casper.....Keremi Tractor & Equipment Co.
Cheyenne.....Keremi Tractor & Equipment Co.

TRAVEL-BATCHER CORP.
6500 Holladay Boulevard
Salt Lake City 17, Utah

PRODUCTS: "Travel-Batcher" and "Travel-Batcher" Cement Silo.

Distributors

ARIZONA
Phoenix.....Western Machinery Co.
CALIFORNIA
San Francisco.....Coast Equipment Co.
COLORADO
Denver.....Western Machinery Co.
WASHINGTON
Seattle.....Hatten Machinery Co.
Spokane.....Western Machinery Co.
WYOMING
Casper.....Moss Equipment & Supply Co.

TRAYLOR ENGINEERING & MFG. CO.
Tenth and Mill Street
Allentown, Pennsylvania

PRODUCTS: Gyrotary, Jaw and Reduction Crushers; Crushing Rolls; Rod Mills; Ball Mills; Apron and Grizzly Feeders.

Factory Branch Office

CALIFORNIA
San Francisco—55 New Montgomery
Manager.....D. J. Kramm

Distributors

ARIZONA
Phoenix.....National Equipment Co.
OREGON
Portland.....Columbia Equipment Co.
UTAH
Salt Lake City.....National Equipment Co.
WASHINGTON
Spokane.....National Equipment Co.

TRIUMPH MACHINERY CO.
Willow Grove Street
Hackettstown, New Jersey

PRODUCTS: Hydraulic Driven Highway Mowers; Hydro-Clipper; Landscape Rake; Hydro Rake.

Distributors

See your local tractor distributor.

TROJAN DIVISION
Yale & Towne Mfg. Co.
1251 Doolittle Drive
San Leandro, California

PRODUCTS: Pneumatic Tire Tractor Shovels.

Western Regional Sales Manager.....John E. Becker
District Sales Representative.....E. D. Gorton

Distributors

ALASKA
Anchorage.....Craig Taylor Equipment & Supply Co.
ARIZONA
Phoenix.....Superior Equipment Co.
Branch:.....Tucson
CALIFORNIA
Los Angeles.....Garlinghouse, Fremont & Co.
Branch:.....San Diego
Oakland.....Cook Bros.
COLORADO
Denver.....Tudor Equipment Co.
IDAHO
Pocatello.....Intermountain Eqpt. Co.
MONTANA
Great Falls.....Normont Equipment Co.
NEVADA
Las Vegas.....Inland Service & Supply Co.
Reno.....Sierra Machinery Co.
NEW MEXICO
Albuquerque.....Contractors Equipment & Supply Co.
OREGON
Portland.....Clyde Equipment Co.
UTAH
Salt Lake City.....Western Machinery Co.
WASHINGTON
Seattle.....Clyde Equipment Co.
Spokane.....Inland Diesel & Machinery Co.
WYOMING
Salt Lake City.....Western Machinery Co.

TUCKER SNO-CAT CORP.
P.O. Box 888
Medford, Oregon

PRODUCTS: Sno-Cats; Sno Kittens; Sno-Trailers.

Distributors

CALIFORNIA
Los Angeles.....Calavar Corp.
San Francisco.....The F.W.D. Pacific Co.
COLORADO
Denver.....The H. W. Moore Equipment Co.
UTAH
Salt Lake City.....Lang Construction Eqpt. Co.
WASHINGTON
Seattle.....Yukon Equipment, Inc.
WYOMING
Jackson.....Brown's Motor & Welding Shop

TURLOCK IRON & MACHINE WORKS
P.O. Box 609
Turlock, California

PRODUCTS: Hydraulic and Air Cylinders and Stroke Control Devices.

Factory Sales Representatives

CALIFORNIA
Stockton—P.O. Box 47.....Grether & Grether
Whittier—P.O. Box 1036.....Grether & Grether
Perry Annex

TWIN DISC CLUTCH CO.
1328 Racine Street
Racine, Wisconsin

PRODUCTS: Friction Clutches (mechanically and air actuated); Power Take-offs; Reduction Gears; Fluid Couplings; Hydraulic Torque Converters; HYDRO-SHAFT DRIVE; HYDRO-WYND DRIVE; Reverse Gears.

Factory Branch

CALIFORNIA
Los Angeles—2950 Leonis Blvd.
A. W. Belcher.....District Representative
P. R. Olney.....Office Manager
M. McMillan.....District Sales Engineer

Distributors

ARIZONA
Phoenix.....Arizona Equipment Sales, Inc.
CALIFORNIA
Bakersfield.....California Truck & Ind. Eqpt. Co.
Huntington Park.....N. A. D'Arcy Co.
Los Angeles.....Charles W. Carter Co.
Sacramento.....California Equipment Co.
San Francisco.....California Equipment Co.
Charles A. Fowler Co.
COLORADO
Denver.....Industrial Equipment Co.
NEW MEXICO
Hobbs.....Vance Supply Co.
OREGON
Eugene.....Mill-Log Equipment Co.
Portland.....Hydra-Lines, Inc.
Power Transmission Products
UTAH
Salt Lake City.....Diesel Electric Service & Supply Co.
WASHINGTON
Seattle.....Bowers Machine Co.
Chain Gear, Inc.
Spokane.....Bitco, Inc.
WYOMING
Casper.....Emrick & Hill Engine & Eqpt. Co.

ULRICH MANUFACTURING CO.
Roanoke, Illinois

PRODUCTS: Elevating Grader Attachments for Caterpillar No. 12 and No. 112 Motor Graders; Road Widener Attachment for Motor Graders; Trench Filler Attachment for Motor Graders; Snow Blowing Attachment for Caterpillar No. 12 and No. 112 Motor Graders; Hydraulic Loader for Caterpillar D2 and D4 Tractors, both oscillating and non-oscillating types; Front Mounted Push Plate for Caterpillar No. 12 and No. 112 Motor Graders; Model S-16 Dozer Spreader.

Distributors

Same as for Caterpillar Tractor Co.

THE UNION CHAIN & MFG. CO.
Edgewater Avenue
Sandusky, Ohio

PRODUCTS: Crowd and Propel Chains; Drive and Conveying Chains and Sprockets; ASA Roller Chains and Sprockets; Flexible Couplings.

Factory Representatives

OREGON
Portland—Rm. 400, Concord Bldg., 208 SW Stark St.
W. D. Hollingworth and T. J. Ryan

Distributors

ALASKA
Anchorage.....Bearing Engineering & Supply Co.
Fairbanks.....Bearing Engineering & Supply Co.
ARIZONA
Phoenix.....Construction & Mining Supply Corp.
Tucson.....Tucson Bearing Co., Inc.

(Continued on next page)

**C. I. T. provides experienced financing for
Distributors and Contractors**

The Union Chain & Mfg. Co. (Cont'd)

CALIFORNIA
Bakersfield.....Jiffy Trencher Parts Co.
Fresno.....Commercial Mfg. & Supply Co.
Los Angeles.....American Chain & Gear Co.
Riverside.....Contractors' Service Co.
Sacramento.....Jiffy Trencher Parts Co.
San Diego.....Hanson Motor Supply
San Francisco.....Charles A. Fowler Co.
Santa Ana.....Santa Ana Chain & Gear Co.
Stockton.....Stockton Iron Works

COLORADO
Denver.....Allen Bearings & Supply Co.
.....Power Transmission Co., Inc.
Grand Junction.....Bearing & Power Transmission Co.

MONTANA
Great Falls.....Brack Motor Supply Co.

NEW MEXICO
Albuquerque.....Union Industrial Corp.
Carlsbad.....Union Industrial Corp.
Farmington.....Justis Supply Co.

OREGON
Eugene.....Munnell & Sherrill, Inc.
Medford.....So. Oregon Bearing Sales Co.
Portland.....Munnell & Sherrill, Inc.
Roseburg.....Munnell & Sherrill, Inc.

UTAH
Salt Lake City.....Kimball Equipment Co.
.....The Power Transmission Supply Co.

WASHINGTON
Longview.....Longview Equipment Co.
Seattle.....Bearing Engineering & Supply Co.
Walla Walla.....White Bros.

WYOMING
Casper.....Wyoming Automotive Co., Ind. Dist. Div.

UNION WIRE ROPE CORP.
Subsidiary of Armco Steel Corp.
21st and Manchester Avenue
Kansas City 26, Missouri

PRODUCTS: Wire Rope; High Carbon Wire and "Tuffy" Slings; Stress Relieved Wire and Strand.

Factory Branches

CALIFORNIA
N. Sacramento—District Manager.....D. L. Bedford

COLORADO
Denver—District Manager.....J. Conley

OREGON
Portland—District Manager.....D. E. Bedford

UNIT CRANE & SHOVEL CORP.
6411 West Burnham Street
Milwaukee 19, Wisconsin

PRODUCTS: Cranes, Shovels, Draglines, Clamshells and Trenches— $\frac{1}{2}$ to $\frac{3}{4}$ yard as excavators and cranes up to 40 tons—crawler, mobile and track mounted.

District Sales Representative

CALIFORNIA
Sacramento—4440 Cabrillo Way.....Herman Combs

Distributors

ARIZONA
Phoenix.....The O. S. Stapley Co.

CALIFORNIA
Los Angeles.....Garlinghouse, Fremont & Co.
N. Sacramento.....Industrial Tractor Sales
Oakland.....Spears-Wells Machinery Co.
Redding.....Shasta Truck & Equipment Co.
San Diego.....Garlinghouse, Fremont & Co.

COLORADO
Denver.....Tudor Equipment Co.

MONTANA
Billings.....Seltz Machinery Co., Inc.
Great Falls.....Seltz Machinery Co., Inc.

NEVADA
Reno.....Reno Equipment Sales

OREGON
Portland.....Manitou Equipment Co.

UTAH
Salt Lake City.....Rasmussen Equipment & Supply Co.

WASHINGTON
Seattle.....Manitou Equipment Co.
Spokane.....Inland Diesel & Machinery Co.

UNIT MANUFACTURING CO.
1229 Harmon Place
Minneapolis 3, Minnesota

PRODUCTS: Cranes (hand power); Hoists (crane, electric, hydraulic, portable); Hydraulic Cylinders.

(Continued in next column)

Unit Manufacturing Co. (Cont'd)

Distributors

ARIZONA
Phoenix.....Southwest Truck Body & Equipment

CALIFORNIA
Fresno.....A & P Body & Tank Distributors
Los Angeles.....American Equipment Co.
.....Jumbo Equipment Co.
.....K & K Body Works
.....Rickstell Sales Co.

Oakland.....Heil Eqt. Co. of No. Calif.
COLORADO
Denver.....Truck Equipment Co.

IDAHO
Boise.....Lang Construction Equipment Co.
Pocatello.....Williamson Body & Equipment Co.

MONTANA
Billings.....H-C-L Equipment Co.
Great Falls.....H-C-L Equipment Co.

NEVADA
(Covered by California distributors)

NEW MEXICO
Albuquerque.....Winter-Weiss Co.

OREGON
Portland.....Schetky Equipment Corp.

UTAH
Ogden.....Truck Equipment Co.

WASHINGTON
Seattle.....Nelson Truck Equipment Co.
.....Tri-Coach Co.

WYOMING
(Denver).....Truck Equipment Co.

UNITED STATES RUBBER CO.
Mechanical Goods Division
1230 Avenue of the Americas
New York 20, New York

PRODUCTS: Hose and Hosing; Tires (truck, auto, construction equipment of all kinds); Batteries; Protective Clothing and Helmets (all kinds); Pipe and Fittings, plastic (all kinds); Plastic Products, Industrial and automotive; Portable Construction Housing; Conveyor Belting; Timing Belts; Tubing and Fittings; Valves; Tank Lining; Expansion Joints; Tape.

District Sales Managers

CALIFORNIA
Los Angeles.....D. L. Reid
San Francisco.....W. I. Butler

COLORADO
Denver.....E. G. Morrill

UTAH
Salt Lake City.....E. G. Morrill

Branches and Offices

CALIFORNIA
Los Angeles—Soto and E. 46th Street
San Francisco—6025 Third Street

COLORADO
Denver—4800 Colorado Blvd.

UTAH
Salt Lake City—1967 S. Second West Street

UNITED STATES RUBBER CO.
Truck Tire Sales Division
5675 Telegraph Road
Los Angeles 22, California

PRODUCTS: A complete line of tires in rayon, nylon and Safety Steel Shield construction for highway and off-the-road hauling and for rock and earthmoving service.

Regional Manager.....M. Harvey
Manager—Fleet Sales.....D. A. Buchanan

Factory Branches

ARIZONA
Phoenix—1140 N. 22nd Ave.....K. G. Neeley

CALIFORNIA
Los Angeles—Soto & E. 46th St.....W. J. Gallagher
San Francisco—6025 Third St.....G. I. McLaren

COLORADO
Denver—4800 Colorado Blvd.....R. H. McCulley

OREGON
Portland—603 NW 10th Ave.....S. A. Patton

UTAH
Salt Lake City—1967 S. Second West.....P. L. Watkins

WASHINGTON
Seattle—5900 First Ave. So.....E. V. Langdon
Spokane—S. 105 Howard St.....D. McKinnon

(Continued in next column)

United States Rubber Co. (Cont'd)

Distributors

CALIFORNIA
Azusa.....Dunkin Tire Co.

WASHINGTON
Yakima.....Rogers Super Tread Tire Co.

UNITED STEEL FABRICATORS, INC.
333 Gasche Street
Wooster, Ohio

PRODUCTS: Highway Guard Rails; Structural-Plate Bridge Flooring; Leave-in-Place Forms for concrete bridge floors.

Distributors

COLORADO
Denver.....Thompson Pipe & Steel Co.

MONTANA
Billings.....Eaton Metal Products Co.

UTAH
Salt Lake City.....Atlas Equipment Co.

WASHINGTON
Spokane.....Spokane Culvert & Fabricating Co.

UNIVERSAL ENGINEERING CORP.
625 "C" Avenue, N.W.
Cedar Rapids, Iowa

PRODUCTS: Crushing, Screening, Washing, Loading and Conveying Equipment (portable, semi-portable and stationary) for rock, gravel, sand and aglime; Ore Crushing and Handling Equipment; Asphalt Plants.

Regional Manager

CALIFORNIA
San Francisco—617 Balboa Bldg.....Alex Ainsley

District Managers

CALIFORNIA
Concord—135 Cerezo Dr.....Frank Boufford
N. Hollywood—
7843 Lankershim Blvd.....C. A. McPherson

COLORADO
Englewood—3800 S. Sherman.....Carl W. Gustafson

WASHINGTON
Spokane—2908 W. Princeton.....Lee Gillette

Distributors

ALASKA
Anchorage.....Yukon Equipment, Inc.
Fairbanks.....Yukon Equipment, Inc.
Ketchikan.....Yukon Equipment, Inc.

ARIZONA
Phoenix.....Arizona Equipment Sales

CALIFORNIA
Los Angeles.....Calavar Corporation
San Francisco.....McCormick Morgan Co.

COLORADO
Denver.....Liberty Trucks & Parts Co.
.....Mine & Smelter Supply Co.

IDAHO
Boise.....G-K Machinery Co.
Pocatello.....Rocky Mountain Machinery Co.

MONTANA
Billings.....Montana Powder & Equipment Co.
Great Falls.....Montana Powder & Equipment Co.
Helena.....Montana Powder & Equipment Co.
Missoula.....Montana Powder & Equipment Co.

NEVADA
Reno.....Sanford Tractor & Equipment Co.

NEW MEXICO
Albuquerque.....Harry Cornelius Co.

OREGON
Eugene.....Loggers & Contractors Machinery Co.
Portland.....Loggers & Contractors Machinery Co.

UTAH
Salt Lake City.....Mine & Smelter Supply Co.
.....Rocky Mountain Machinery Co.

WASHINGTON
Seattle.....Totem Equipment Co.
.....Yukon Equipment Co.

WYOMING
Casper.....Moss Equipment Co.

UNIVERSAL FORM CLAMP CO.
1238 North Kostner Avenue
Chicago 51, Illinois

PRODUCTS: Uni-Form Panels; Spiroloc Form Ties; Twistite Form Ties; Form Clamps; Anchoring Devices; Reinforcing Bar Supports.

(Continued on next page)

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
Equitable Building, Portland

Universal Form Clamp Co. (Cont'd)

Factory Branch Managers

CALIFORNIA
Los Angeles—13210 S. Figueroa St.....D. Harney
San Leandro—2051 Williams St.....N. Turner

Distributors

ARIZONA
Phoenix.....Superior Equipment Co.
COLORADO
Denver.....K. C. Construction Supply Co.
NEW MEXICO
Albuquerque.....Equipment Rental & Sales Co.
OREGON
Portland.....McCracken-Ripley Co.
UTAH
Salt Lake City.....Steel Engineers Co.
WASHINGTON
Seattle.....Universal Equipment Co.
Spokane.....Ferris Equipment Co.

UNIVERSAL MANUFACTURING CORP.

**550 W. New Castle Street
Zelienople, Pennsylvania**

PRODUCTS: Exhilt Steel Panel Scaffolding and Scaffold-for-Shoring; Steel Post Shores; Ladder Ladder-Panel Scaffolding; Endlok Pipe and Clamp Scaffolding; Sidewalk Bridging; American Tubular Elevator Towers; American-Universal Bleachers.

Distributors

CALIFORNIA
Los Angeles.....American-Universal of Calif., Inc.
COLORADO
Denver.....The Universal Co.
UTAH
Salt Lake City.....Contractors Equipment & Supply Co.
WASHINGTON
Seattle.....Universal Equipment Co.

UNIVERSAL MOTOR CO.

**557 Universal Drive
Oshkosh, Wisconsin**

PRODUCTS: Generator Sets and Battery Chargers, gasoline engine driven; Power and Light Plants, Diesel engine driven.

Distributors

ALASKA
Juneau.....Parsons Electric Co.
ARIZONA
Phoenix.....Arizona Equipment Sales Co.
Beeler Brothers
The O. S. Stapley Co.
CALIFORNIA
Los Angeles.....Fornaciari Company
Larson Equipment Co.
Shepherd Machinery Co.
Newport Beach.....Harmath Elec. & Mfg. Co.
San Diego.....Shepherd Machinery Co.
San Francisco.....Coast Equipment Co.
Thomas A. Short Co.
COLORADO
Denver.....Contractors Equipment Co.
King & East Machinery Co.
Mine & Smelter Supply Co.
Grand Junction.....S & M Supply Co.
IDAHO
Boise.....Engineering Sales Service, Inc.
NEW MEXICO
Albuquerque.....J. D. Coggins Co.
OREGON
Medford.....Cal-Ore Machinery Co., Inc.
Sim Grady Machinery Co.
Portland.....T. B. Cook Engine Co.
WASHINGTON
Seattle.....Andrews Machinery Co.
The Carrington Co.
Northern Commercial Co.
Pacific Marine Supply Co.
WYOMING
Casper.....Moss Equipment Co.

UTILITY STEEL FOUNDRY

**Subsidiary of Utility Trailer Mfg. Co.
3320 E. Slauson Avenue
Vernon, California
Mail Address: P.O. Box 148,
Maywood, Calif.**

PRODUCTS: Complete Crawler Track Groups; Link Assemblies for crawler tractors; Heavy Duty Crawler Track Shoes; Alloy Steel Re-Grousering Bars.
(Continued in next column)

Utility Steel Foundry (Cont'd)

Distributors

ALASKA
Anchorage.....Western Tractor & Equipment Co.
Fairbanks.....Western Tractor & Equipment Co.
ARIZONA
Phoenix.....Equipment Sales Co.
CALIFORNIA
Los Angeles.....Industrial Parts Depot
Marysville.....Peterman Equipment Supply Co.
San Diego.....Contractors Service Div.,
San Diego Spring & Brake Co.
COLORADO
Denver.....Liberty Trucks & Parts Co.
IDAHO
Boise.....Bunting Tractor Co.
Burley.....Bunting Tractor Co.
Fairfield.....Bunting Tractor Co.
NEW MEXICO
Albuquerque.....Equipment Sales Co.
OREGON
Eugene.....Interstate Tractor & Equipment Co.
Portland.....Interstate Tractor & Equipment Co.
UTAH
Salt Lake City.....Heiner Equipment & Supply Co.
WASHINGTON
Seattle.....Western Tractor & Equipment Co.
Spokane.....Andrews Eqp. Service of Wash., Inc.
WYOMING
Casper.....Moss Equipment & Supply Co.

UTILITY TRAILER MFG. CO.

**17300 Chestnut Street
P.O. Box F-1
City of Industry, California**

PRODUCTS: All types of Truck Trailers including: Dry Freight and Refrigerator Vans, Warehouse Vans, Frameless Dump Trailers, Flatbeds, Lowbeds, Tankers, Cattle Haulers, Logging Trailers, Containers, Reel Carriers, Tiltbeds.

Vice President—Sales

CALIFORNIA
San Francisco—155 Bayshore Blvd.....Walt Pavela

Distributors

ARIZONA
Phoenix.....Utility Trailer Sales Co.
CALIFORNIA
Fresno, Los Angeles, Modesto, Sacramento, San Diego and San Francisco.....Utility Trailer Sales Co.
OREGON
Portland.....Utility Trailer & Eqp. Co.
UTAH
Salt Lake City.....Utility Trailer Sales of Utah, Inc.
WASHINGTON
Seattle.....Transport Trailer & Eqp. Co.

VAN BRUSH MFG. CO., INC.

**2740 McGee Street
Kansas City 8, Missouri**

PRODUCTS: Rotary Sweeper Broom Cores; Steel Wire or Fibre Drag Broom Levelers; Street Push Brooms; Concrete Brooms.

Distributors throughout the United States.

VERMEER MANUFACTURING CO.

Pella, Iowa

PRODUCTS: Ditching Machines.

Distributors

CALIFORNIA
Los Angeles.....B. Hayman Co.
San Jose.....M.F.D., Inc.
COLORADO
Denver.....Allen Equipment Mfg. Co.
OREGON
Portland.....Mitchell, Lewis & Staver
UTAH
Ogden.....E. C. Olsen Co.
WASHINGTON
Seattle.....Star Machinery Co.
Spokane.....Star Machinery Co.

VIBER COMPANY

**726 South Flower Street
Burbank, California**

PRODUCTS: Vibrators, concrete and industrial.
(Continued in next column)

Viber Company (Cont'd)

Distributors

ALASKA
(Seattle).....Yukon Equipment Co.
ARIZONA
Phoenix.....Lee Redman Equipment Co.
Tucson.....Babby Bldg. Specialties
CALIFORNIA
Los Angeles.....Crellin Machine Co.
Garlinghouse, Fremont & Co., Inc.
Piedmont.....Arthur P. Denton
Sacramento.....W. J. Burke & Co.
San Francisco.....W. J. Burke & Co.
Stockton.....Guntert & Zimmerman Sales Div., Inc.
COLORADO
Denver.....Booth-Rouse Equipment Co.
IDAHO
Boise.....Intermountain Equipment Co.
Pocatello.....Intermountain Equipment Co.
MONTANA
Helena.....Montana Powder & Equipment Co.
NEVADA
Reno.....Sanford Tractor & Equipment Co.
NEW MEXICO
Albuquerque.....W. J. Burke & Co.
OREGON
Medford.....Cal-Ore Machinery Co., Inc.
Portland.....W. J. Burke & Co.
UTAH
Salt Lake City.....Holland Equipment Co.
WASHINGTON
Seattle.....A. H. Cox & Co.
Spokane.....Intermountain Equipment Co.
WYOMING
Cheyenne.....Wilson Equipment & Supply Co.

VIBRO-PLUS PRODUCTS, INC.

Stanhope, New Jersey

PRODUCTS: Vibratory Soil Compactors; Concrete Vibrators; Industrial Vibrators; Pre-stressed Concrete Vibrators.

District Representative

CALIFORNIA
Pasadena—1383 N. Coolidge Ave.....A. Cheslow

Distributors

ALASKA
Anchorage.....Craig Taylor Equipment & Supply Co.
ARIZONA
Phoenix.....Western Machinery Co.
CALIFORNIA
Berkeley.....West Coast Engine & Eqp. Co.
Fresno.....Edward R. Bacon Co.
Los Angeles.....Gridley Equipment Co.
Smith Booth Usher Co.
COLORADO
Denver.....Air Rentals, Inc.
Krippner & Polley Co.
IDAHO
Boise.....The Sawtooth Co.
Idaho Falls.....Arnold Machinery Co., Inc.
NEVADA
Las Vegas.....Inland Service & Supply Corp.
NEW MEXICO
Albuquerque.....The Harry Cornelius Co.
OREGON
Portland.....Andrews & Andrews Equipment Co.
UTAH
Salt Lake City.....Arnold Machinery Co., Inc.
Foulger Equipment Co.
WASHINGTON
Seattle.....Universal Equipment Co.
Spokane.....Andrews Equipment Service
WYOMING
Casper.....Moss Equipment & Supply Co.

VICTAULIC CO. OF AMERICA

**P.O. Box 509
Elizabeth, New Jersey**

PRODUCTS: Pipe Couplings, Fittings and Tools.

Factory Branches

CALIFORNIA
Los Angeles—4201 District Blvd.....H. D. Squibb
NEW MEXICO
Farmington—916 Schofield Lane
WYOMING
Casper—208 N. Market St.....S. D. Chilcote

Sales Engineer

CALIFORNIA
Los Angeles—4201 District Blvd.....F. A. Anger
Distributed Through All Leading Supply Houses

**C. I. T.'s Pay-As-You-Depreciate Plan provides
long term financing for Contractors**

VICTOR EQUIPMENT CO.
 844 Folsom Street
 San Francisco 7, California

PRODUCTS: Flame Cutting and Welding Equipment, Accessories and Supplies; Hard-Surfacing Rods for all purposes; Pneumatic Controls; High Pressure Gas Discharging Manifolds; Medical Gas Therapy Equipment; Super Tital Blasting Nozzles.

Factory Branches

CALIFORNIA
 Fresno—Manager..... Al Dreith, Jr.
 Los Angeles—Vice President..... E. O. Williams
 Norwalk—Vice President..... Jack Spence
 Oakland—Manager..... C. Wing
 Sacramento—Manager..... Richard Labahn
 San Diego—Manager..... Herb Maynard
 Santa Clara—Manager..... R. Dougherty
 Stockton—Manager..... W. King
 Ventura—Manager..... R. J. Campbell

Distributors

ARIZONA
 Phoenix..... Arizona Welding Equipment Co.
 Consolidated Welding Supply Co.
 Tucson..... Aweco Supply Co.
COLORADO
 Craig..... U.S. Welding Works
 Denver..... U.S. Welding Works
 Grand Junction..... Western Slope Oxygen Co.
 Pueblo..... J. F. Damman Supply Co.
IDAHO
 Boise..... The Sawtooth Co.
 Spencer Supply Co.
 Pocatello..... Paul Roberts
 Twin Falls..... Paul Roberts
MONTANA
 Billings..... General Distributing Co.
 Butte..... Butte Machinery Co.
 General Distributing Co.
 Great Falls..... General Distributing Co.
 Mike's Welding Supply Co.
 Poplar..... Poplar Supply Co.
NEVADA
 Elko..... A-D Machinery Co.
 Fallon..... Motor Supply Co.
 Reno..... Nevada Rental Sales Co.
 Sierra Oxygen Co.
NEW MEXICO
 Albuquerque..... Industrial Supply Co.
OREGON
 Eugene..... Eugene Welders Supply Co.
 J. E. Hazeltine & Co.
 Medford..... Industrial Air Products
 Portland..... Industrial Air Products
 J. E. Hazeltine & Co.
UTAH
 Salt Lake City..... The Galigher Co.
 The Webb Co.
WASHINGTON
 Kennewick..... Industrial Air Products
 Seattle..... J. E. Hazeltine & Co.
 Industrial Air Products
 Western Oxygen, Inc.
 Spokane..... Gibson Welding Supplies
 J. E. Hazeltine & Co.
 Industrial Air Products
 Yakima..... Industrial Air Products
WYOMING
 Worland..... Worland Oxygen Co.

VULCAN IRON WORKS, INC.
 327 North Bell Avenue
 Chicago 12, Illinois

PRODUCTS: Steam or Air Operated Pile Driving Hammers; Steam or Air Operated Pile Extractors; Drop Pile Hammers; Portable Pile Hammers; Pile Driving Accessories.

Distributors

ALASKA
 (Seattle)..... A. H. Cox & Co.
ARIZONA
 Phoenix..... Superior Equipment Co., Inc.
 Tucson..... Superior Equipment Co., Inc.
CALIFORNIA
 Los Angeles..... Harron, Rickard & McCone Co.
 of So. Calif.
 San Francisco..... Coast Equipment Co.
COLORADO
 Denver..... Air Rentals, Inc.
IDAHO
 Boise..... Intermountain Equipment Co.
 Pocatello..... Intermountain Equipment Co.
MONTANA
 Billings..... Industrial Equipment Co.

(Continued in next column)

Vulcan Iron Works, Inc. (Cont'd)

NEW MEXICO (S)
 (El Paso)..... Border Machinery Co.
OREGON
 Portland..... Balzer Machinery Co.
 (Boise)..... Intermountain Equipment Co.
WASHINGTON
 Seattle..... A. H. Cox & Co.
 Spokane..... Intermountain Equipment Co.
 (Portland)..... Balzer Machinery Co.
WYOMING (N)
 (Billings)..... Industrial Equipment Co.

WACKER CORPORATION

46 Jackson Street
 Hartford, Wisconsin

PRODUCTS: Gasoline-powered Rammer; Gasoline powered Vibrating Plate.

District Manager

CALIFORNIA
 Oakland..... Karl H. Loudenbach

Manufacturer's Agent

COLORADO
 Lakewood—8010 W. 12th Ave. Kenneth G. Mains

Distributors

ARIZONA
 Phoenix..... Western Machinery Co.
CALIFORNIA
 Los Angeles..... Garlinghouse, Fremont & Co.
 San Francisco..... Edward R. Bacon Co.
COLORADO
 Denver..... Rental Machinery Co.
IDAHO
 Boise..... Starline Equipment Co.
MONTANA
 Billings..... Industrial Equipment Co.
NEW MEXICO
 Albuquerque..... Franks Supply Co.
OREGON
 Portland..... George M. Philpott Co.
UTAH
 Salt Lake City..... Lund Machinery Co.
WASHINGTON
 Seattle..... Hatten Machinery Co.
 Spokane..... General Machinery Co.
WYOMING
 Cheyenne..... Keremi Tractor & Equipment Co.

WAGNER IRON WORKS
 1905 South First Street
 Milwaukee 1, Wisconsin

PRODUCTS: Front End Loaders; Backhoes and Tractor-mounted Attachments.

Regional Manager

CALIFORNIA
 Altadena—1808 E. Altadena Dr. L. W. Brandt

Distributors

ALASKA
 (Portland)..... Independent Distributors
ARIZONA
 (Anaheim)..... Allied Equipment Distributors
 (Los Angeles)..... Hight-Thompson, Inc.
 (Oakland)..... H. E. Linney Co.
 Richmond..... Pacific Tractor & Implement Co.
COLORADO
 Denver..... Hill Machinery Co.
 McCarty-Sherman Distributing Corp.
IDAHO
 (Portland)..... Independent Distributors
 (Salt Lake City)..... Stan Bonham Co.
MONTANA
 Billings..... Seitz Distributing Co.
NEVADA
 (Anaheim)..... Allied Equipment Distributors
 (Los Angeles)..... Hight-Thompson, Inc.
 (Oakland)..... H. E. Linney Co.
 (Salt Lake City)..... Stan Bonham Co.
NEW MEXICO
 (Denver)..... Hill Machinery Co.
 (Dallas)..... The Southern Plow Co.
OREGON
 Portland..... Independent Distributors
UTAH
 Salt Lake City..... Stan Bonham Co.
WASHINGTON
 (Portland)..... Independent Distributors
WYOMING
 (Billings)..... Seitz Distributing Co.
 (Denver)..... Hill Machinery Co.
 (Salt Lake City)..... Stan Bonham Co.

WAGNER TRACTOR, INC.
 8027 N.E. Killingsworth Street
 Portland 20, Oregon

PRODUCTS: Tractors—4-wheel drive, rubber tired; Compactors—self-contained, 4-wheel drive, rubber tired.

Distributors

ARIZONA
 Phoenix..... Arizona Equipment Sales, Inc.
CALIFORNIA
 Bakersfield..... The L. F. Freeborn Co.
 Eureka..... Trinity Tractor Co.
 Fresno..... Ashton Implement Co.
 Hanford..... Hanford Farm Supply Co.
 Merced..... Laird Welding & Mfg. Co.
 Sacramento..... Caron & Oliver Equipment Center
 Salinas..... Ashton Implement Co.
 Tracy..... Caron & Oliver Equipment Center
COLORADO
 Springfield..... Colorado-Wagner Sales, Inc.
MONTANA
 Dutton..... Curtis, Inc.
 Havre..... Wagner Equipment Co.
 Lewiston..... Dan Morrison & Sons
OREGON
 Portland..... Nelson Equipment Co.
WASHINGTON
 Spokane..... Andrews Eqpt. Service of Wash., Ltd.

WAIN-ROY CORPORATION
 Princeton Road
 Hubbardston, Massachusetts

PRODUCTS: Hydraulic Backhoes.

Distributors

ALASKA
 Anchorage..... The Carrington Co.
 Fairbanks..... The Carrington Co.
ARIZONA
 Phoenix..... Copper State Tractor Co.
 Tucson..... F. Ronstadt Hardware Co.
CALIFORNIA
 Bakersfield..... Brown-Bevis Industrial Equipment Co.
 El Centro..... Purdy-Holmquist Co.
 Eureka..... Howard-Cooper Corp.
 Five Points..... Allied Equipment Co.
 Fresno..... Allied Equipment Co.
 Los Angeles..... Brown-Bevis Industrial Equipment Co.
 Madera..... Allied Equipment Co.
 Oakland..... Bay Cities Equipment, Inc.
 Oxnard..... Maulhardt Equipment Co.
 Redding..... Howard-Cooper Corp.
 Redley..... Allied Equipment Co.
 Riverside..... Brown-Bevis Industrial Equipment Co.
 Salinas..... Farmers Mercantile Co.
 Sacramento..... Sacramento Valley Tractor Co.
 San Diego..... Southern Equipment & Supply Co.
 San Jose..... Bay Cities Equipment, Inc.
 Santa Maria..... Hanson Equipment Co.
 Santa Rosa..... Stevenson Equipment Co., Inc.
 Stockton..... Delta Tractor Co.
 Stratford..... Orton's Equipment Co., Inc.
 Tracy..... Delta Tractor Co.
 Tranquility..... Allied Equipment Co.
 Watsonville..... Farmers Mercantile Co.
COLORADO
 Denver..... H. W. Moore Equipment Co.
 Durango..... H. W. Moore Equipment Co.
 Grand Junction..... H. W. Moore Equipment Co.
IDAHO
 Boise..... Intermountain Equipment Co.
 Idaho Falls..... Lang Construction Equipment Co.
 Pocatello..... Intermountain Equipment Co.
MONTANA
 Billings..... Industrial Equipment Co.
 Great Falls..... Power Equipment Co.
 Kalispell..... Treasure State Equipment Co.
 Missoula..... Treasure State Equipment Co.
NEVADA
 Las Vegas..... Clark County Wholesale Mercantile Co.
 Reno..... Sanford Tractor & Equipment Co.
NEW MEXICO
 Albuquerque..... J. D. Coggins Co.
 Farmington..... J. D. Coggins Co.
OREGON
 Albany..... Howard-Cooper Corp.
 Central Point..... Howard-Cooper Corp.
 Eugene..... Howard-Cooper Corp.
 Pendleton..... Pendleton Grain Growers, Inc.
 Portland..... Howard-Cooper Corp.
 Roseburg..... Howard-Cooper Corp.
UTAH
 Salt Lake City..... Lang Construction Equipment Co.
WASHINGTON
 Seattle..... The Carrington Co.
 Howard-Cooper Corp.
 Spokane..... Modern Machinery Co., Inc.
WYOMING
 Casper..... Keremi Tractor & Equipment Co.
 Cheyenne..... Keremi Tractor & Equipment Co.

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
 Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
 Equitable Building, Portland

WALLACE SUPPLIES MFG. CO.

1300 Diversey Parkway
Chicago 14, Illinois

PRODUCTS: Hand and Hydraulic Pipe; Tube and Structural Shapes Benders - Re-bar Benders; Abrasive Cut-Off Saws, Band Saws, Hack Saws.

District Manager

CALIFORNIA
Los Angeles—Manager.....Arnold H. Johnson
5880 Hollywood Blvd.

DISTRIBUTION THROUGH THE MANUFACTURER**WALTER MOTOR TRUCK**

1001 Irving Avenue
Ridgewood, L.I. 27, New York

PRODUCTS: Four-Wheel Drive Trucks; Wrecker and Utility Trucks; Snow Plow Trucks; Tractor Trucks; Dump Trucks.

Regional Representative
(All Western States)

WASHINGTON
Spokane—E. 2442 Glenn Court.....Leo Morton

Distributors

ARIZONA
Phoenix.....Western Machinery Co.
CALIFORNIA
Los Angeles.....Shaw Sales & Service Co.
Oakland.....Cook Bros. Truck & Equipment Co.
Redding.....Shasta Equipment & Truck Sales
DAHO
Boise.....Southern Idaho Equipment Co.
Idaho Falls.....Southern Idaho Equipment Co.
MONTANA
Butte.....Roberts Truck & Parts Supply
NEVADA
Reno.....Reno Equipment & Sales Co.
OREGON
Portland.....Cramer Machinery Co.
Guthrie Machinery Co.
UTAH
Salt Lake City.....Lund Machinery Co.
WASHINGTON
Seattle.....Sahlberg Equipment, Inc.
Spokane.....Western Machinery Co.

WARN MANUFACTURING CO., INC.

18821 Pacific Highway South
Seattle 88, Washington

PRODUCTS: Conversion Hubs for 4Wd. Vehicles (Willys, Dodge, Chevrolet, Land Rover, Ford, International and G.M.C.).

Distributors

ARIZONA
Phoenix.....Auto Safety House
Ray Korte, Inc.
CALIFORNIA
Emeryville.....Willys Motors, Inc.
Los Angeles.....International Harvester Co.
Oakland.....C and C Trailer Body Co.
COLORADO
Denver.....International Harvester Co.
Jacobs-Kerr & Co.
Willys Sales Corp.
IDAHO
Boise.....National Motor Service
MONTANA
Billings.....George Pierce, Inc.
H.C.L. Equipment Co.
Great Falls.....Robinson Motors
NEW MEXICO
Albuquerque.....Timples Bros.
OREGON
Portland.....International Harvester Co.
Oregon Dodge Truck Center
Pacific Body Builders
Willys Sales Corp.
UTAH
Salt Lake City.....Lang Construction Equipment Co.
WASHINGTON
Spokane.....Critzler Equipment Co.

WATSON—CMETCO

1316-67th Street
Emeryville 8, California

PRODUCTS: Concrete Bull Floats; Concrete Tampers; Telescoping Vibratory Screeds; Vibratory Screenshot Economy Package; Power Concrete Buggy; Tilt-up Brace Hardware; Receiving Hoppers; Collection Hoppers; Portable Hoppers; Collapsible Rubber Hoppers; Elephant Trunks; Collars; Sub Hoppers; Buckets; Lightweight Laydown, Lightweight Utility, Standard Low Slump, Round Type, Hand Concrete Carts; Rola Pavers; Trenchers and Base Boxes.

Distributors

ALASKA
(Seattle).....W. J. Burke & Co.
ARIZONA
Phoenix.....Superior Equipment Co., Inc.
CALIFORNIA
Berkeley.....Jack Fingland Equipment Co.
Los Angeles, Oakland, Sacramento, San Diego, and San Francisco.....W. J. Burke & Co.
COLORADO
Denver.....Booth-Rouse Equipment Co.
MONTANA
Helena.....Montana Powder & Equipment Co.
Great Falls.....Monty Machinery Co.
NEVADA
Las Vegas.....Inland Service & Supply Co.
Reno.....Sanford Tractor & Equipment Co.
NEW MEXICO
Albuquerque.....W. J. Burke & Co.
OREGON
Medford.....Cal-Ore Machinery Co., Inc.
Portland.....W. J. Burke & Co.
UTAH
Salt Lake City.....Atlas Equipment Co.
WASHINGTON
Seattle.....W. J. Burke & Co.
Spokane.....Ferris Equipment Co.
WYOMING
Casper.....Casper Concrete Machinery Co.

H. S. WATSON CO.

1316 - 67th Street
Emeryville 8, California

PRODUCTS: (Truck Equipment Div.) Transmissions, auxiliary; Elevating Tailgates; Truck Cranes; Hand Winches; Truck-powered Augers.

District Managers

CALIFORNIA
Studio City—11997 Laurelwood Dr.—P. L. Gassaway
WASHINGTON
Spokane—W. 2715 LaCrosse.....Joseph O'Keefe

Distributors

ARIZONA
Phoenix.....Auto Safety House
CALIFORNIA
Bakersfield.....California Truck & Ind. Eqpt. Co.
Eureka.....Humbolt Supply
Fresno.....Ruckstell California Sales
Los Angeles.....Standard Auto Body Co.
Oakland.....Ruckstell California Sales
Pomona.....Win Ward Co.
San Francisco.....Transport Supply Co.
W. Sacramento.....Commercial Body & Trailer Service
San Diego.....Win Ward Co.
COLORADO
Denver.....Winter-Weiss Co.
IDAHO
Boise.....Dysons Truck Equipment Co.
Idaho Falls.....Musselman Equipment Co.
Twin Falls.....Twin Falls Auto Parts
MONTANA
Billings.....H.C.L. Equipment Co., Inc.
Great Falls.....Smith Equipment Co.
NEW MEXICO
Albuquerque.....Winter-Weiss Co.
OREGON
Portland.....Northwest Truckstell Sales, Inc.
UTAH
Salt Lake City.....Lang Construction Eqpt. Co.
WASHINGTON
Seattle.....Truck Welding & Equipment Co.

WAUKESHA MOTOR CO.

1001 West St. Paul Avenue
Waukesha, Wisconsin

PRODUCTS: Gas, Gasoline and Diesel Engines and Power Units; Engine Generator Sets—50 - 800 KW.

Factory Branch

CALIFORNIA
Los Angeles—Manager.....A. G. Mulkey

Distributors

ALASKA
Anchorage.....Airport Machinery Co., Inc.
ARIZONA
Phoenix.....Waukesha SW Engine-Parts Mfg. Co.
CALIFORNIA
Emeryville.....Waukesha Pacific Equipment Co.
Eureka.....B & S Supply Co.
Los Angeles.....Waukesha Southern California
COLORADO
Denver.....Waukesha Engine & Equipment Co.
IDAHO
Boise.....D. N. Nordling Parts Co.
NEW MEXICO
Hobbs.....Waukesha Sales & Service, Inc.
Farmington.....Waukesha Engine & Equipment, Inc.
OREGON
Portland.....Truck & Industrial Equipment Co.
UTAH
Blanding.....Waukesha of Utah
Salt Lake City.....The Love Co., Inc.
WASHINGTON
Seattle.....Piston Service, Inc.
WYOMING
Casper.....Waukesha Engine & Equipment Co.

WAUSAU IRON WORKS

Wausau, Wisconsin

PRODUCTS: Snow Plows for trucks, graders; Wheel Tractors; Brooks Electric Pump; Hydra Clutch Pumps; Underbody Truck Graders; Ice Blades.

Distributors

ALASKA
(Seattle).....The Carrington Co.
ARIZONA
Phoenix.....Arizona-Cedar Rapids Co.
CALIFORNIA
Los Angeles.....Calavar Corporation
San Francisco.....F.W.D. Pacific Co.
COLORADO
Denver.....MacDonald Equipment Co.
IDAHO
Boise.....Feenaughty Machinery Co.
Idaho Falls.....Southern Idaho Equipment Co.
MONTANA
Helena.....Steffeck Equipment Co.
NEVADA
Reno.....General Equipment Co.
NEW MEXICO
Albuquerque.....J. D. Coggins Co.
Construction Machinery Co.
Lively Machinery Co.
Las Cruces.....The Meyers Co.
OREGON
Portland.....Feenaughty Machinery Co.
WASHINGTON
Seattle.....Feenaughty Machinery Co.
Spokane.....Feenaughty Machinery Co.
WYOMING
Casper.....Studer Tractor & Equipment Co.
(Idaho Falls).....Southern Idaho Equipment Co.
(Salt Lake City).....Kimball Equipment Co.

WAYNE MANUFACTURING CO.

1201 E. Lexington Street
Pomona, California

PRODUCTS: Street Sweepers; Industrial Power Sweepers.

Distributors—Street Sweepers

ALASKA
Seattle.....The Carrington Co.
ARIZONA
Phoenix.....Road Machinery Co.
Tucson.....Road Machinery Co.
(Continued on next page)

**C. I. T.'s Pay-As-You-Depreciate Plan permits
payments out of depreciation**

Wayne Manufacturing Co. (Cont'd)

CALIFORNIA
 Bakersfield.....Brown-Bevis Industrial Eqt. Co.
 Eureka.....Eureka Boiler Works
 Fresno.....Contractors Eqt. & Supply Co.
 Sacramento.....Western Traction Co.
 San Diego.....Brown-Bevis Industrial Eqt. Co.
 San Francisco.....Western Traction Co.
IDAHO
 Boise.....Feenaughty Machinery Co.
MONTANA
 Billings.....Industrial Equipment Co.
 Kalispell.....Treasure State Equipment Co.
NEVADA
 Las Vegas.....Clark County Wholesale Merc. Co.
 Reno.....General Equipment Co.
NEW MEXICO
 Albuquerque.....J. D. Coggins Co.
 Farmington.....J. D. Coggins Co.
OREGON
 Portland.....Feenaughty Machinery Co.
UTAH
 Salt Lake City.....Rocky Mountain Machinery Co.
WASHINGTON
 Seattle.....Feenaughty Machinery Co.
 Spokane.....Feenaughty Machinery Co.
WYOMING
 Casper.....Studer Tractor & Equipment Co.

Distributors—Power Sweepers

ALASKA
 (Seattle).....The Carrington Co.
ARIZONA
 Phoenix.....Road Machinery Co.
 Tucson.....Road Machinery Co.
CALIFORNIA
 Bakersfield.....Brown-Bevis Industrial Eqt. Co.
 Eureka.....Eureka Boiler Works
 Fresno.....Contractors Equipment & Supply Co.
 Los Angeles.....R. J. Lison Co.
 Redding.....Paul Droscher Sales
 Sacramento.....J. R. Rolfe Equipment Corp.
 San Diego.....Brown-Bevis Industrial Eqt. Co.
 San Jose.....Emery Supply Co.
 San Francisco.....Curtis Equipment Co.
COLORADO
 Denver.....Joe Coursey Equipment Co., Inc.
MONTANA
 Billings.....Industrial Equipment Co.
NEVADA
 Las Vegas.....Clark County Wholesale Co.
 Reno.....General Equipment Co.
NEW MEXICO
 Albuquerque.....E. D. Flournoy Co.
OREGON
 Medford.....Robert Dodd Co.
 Portland.....Robert Dodd Co.
WASHINGTON
 Seattle.....Material Handling Equipment Co.
 Spokane.....Standard Equipment Co.
WYOMING
 Casper.....Studer Tractor & Equipment Co.

WELLMAN ENGINEERING CO.

See Williams Bucket Division

THE S. K. WELLMAN CO.
 200 Egbert Road
 Bedford, Ohio

PRODUCTS: All-Metal Clutch Plates; Facings and Brake Linings for automotive, tractor and industrial equipment.

Factory Branch Managers

CALIFORNIA
 Los Angeles—240 W. 21st St.....R. O. Hakala
 San Francisco—2166 Palou Ave..G. F. Mathews, Jr.
OREGON
 Portland—902 SE Sherman St.....J. J. Lowe
UTAH
 Salt Lake City—150 S. Fourth W. St..W. T. Naylor

WESTERN BOILER CO.
 1600 North Indiana Street
 Los Angeles 63, California

PRODUCTS: Packaged Boilers—rotary forced draft and pressure forced draft for oil, gas and combination oil-gas firing; Scotch Marine Boilers, high or low pressure.

President.....C. H. Mund
 Vice President and Sales Manager.....R. W. Winskill
 (Continued in next column)

Western Boiler Co. (Cont'd)

Distributors

ARIZONA
 Phoenix.....Combustion Equipment Co.
CALIFORNIA
 Fresno.....Muldoon Co., Inc.
 Pico.....Fred S. Renaud Co.
 San Francisco.....Western Boiler Engineers
COLORADO
 Denver.....Longero, Inc.
OREGON
 Portland.....Campbell-Norquist & Co.
UTAH
 Salt Lake City.....United Iron Works
WASHINGTON
 Seattle.....Evans Products Co.
 Hurley Engineering Co.
 Spokane.....Atlas Boiler & Equipment Co.
 Tacoma.....Hurley Engineering Co.
 Wenatchee.....Wells & Wade, Inc.
 Yakima.....Saar Heating & Engineering Co.

WESTERN CONVEYOR CO.
 2801 Warm Springs Avenue
 P.O. Box 357
 Boise, Idaho

PRODUCTS: Schrock Motorized Head Pulleys; Conveyors; Feeders; Portable and Stationary Unitized Screening and Crushing Plants; Custom-built Materials Handling Equipment; Schrock Thermo-Cut Sprocket Cutting Machines.

Distributors

ARIZONA
 Phoenix.....Arizona Cedar Rapids Co.
CALIFORNIA
 Los Angeles.....Brown-Bevis Industrial Equipment Co.
 Oakland.....Bay Cities Equipment Co.
MONTANA
 Missoula.....Mountain States Tractor Co.
NEVADA
 Reno.....Sierra Machinery Co.
NEW MEXICO
 Albuquerque.....Lively Equipment Co.
OREGON
 Eugene.....American Steel & Supply Co.
 Salem.....Salem Steel & Supply Co.
UTAH
 Salt Lake City.....Kimball Equipment Co.
WASHINGTON
 Seattle.....Sahlberg Equipment Co.

WESTERN MACHINERY CO.
 650 Fifth Street
 San Francisco 7, California

PRODUCTS: Sand Preparation Machines; Sandclones; Sandsorts; Sand and Gravel Jigs; Sand Pumps; Torqueflow Pumps; HMS Mobile Mills.

District Representatives

ARIZONA
 Phoenix—P.O. Box 6472.....W. D. Michael
CALIFORNIA
 San Francisco—650 Fifth St.....R. S. Bailey
 (California, Oregon, Washington)
COLORADO
 Denver—5600 E. Bates Ave.....F. R. Elsner
 (Arizona, Colorado, Wyoming)
UTAH
 Salt Lake City—
 1786 Meadow Moor Rd.....R. M. Hansen
 (Idaho, Montana, Utah)

Distributors

ARIZONA
 Phoenix.....Western Machinery Co.
CALIFORNIA
 Los Angeles.....Smith Booth Usher Co.
 San Francisco.....Edward R. Bacon Co.
COLORADO
 Denver.....Western Machinery Co.
IDAHO
 Idaho Falls.....Western Machinery Co.
MONTANA
 Billings.....Seitz Machinery Co.
NEVADA
 (Las Angeles).....Smith Booth Usher Co.
 (Salt Lake City).....Western Machinery Co.
 (San Francisco).....Edward R. Bacon Co.
 (Continued in next column)

Western Machinery Co. (Cont'd)

NEW MEXICO
 Albuquerque.....R. L. Harrison Co.
 (El Paso).....Equipment Supply Co., Inc.
OREGON
 Portland.....Cramer Machinery Co.
UTAH
 Salt Lake City.....Western Machinery Co.
WASHINGTON
 Seattle.....Washington Machinery Co.
 Spokane.....Western Machinery Co.
WYOMING
 (Denver).....Western Machinery Co.
 (Salt Lake City).....Western Machinery Co.

WESTERN ROCK BIT MANUFACTURING CO.
 552 West Seventh South Street
 Salt Lake City 1, Utah

PRODUCTS: Rock (Percussion) Drill Bits.

WHITE DIESEL ENGINE DIVISION
 The White Motor Co.
 1401 Sheridan Avenue
 Springfield, Ohio

PRODUCTS: Heavy Duty Slow and Medium Speed Engines for Mobile Generating Plants, Power Plants, Sawmills, Dredges, Mines, etc., 100 to 2150 HP.

Factory Branches

ALASKA
 Ketchikan—900 Water St.....Ralph J. Peters
CALIFORNIA
 San Francisco—1209 Russ Bldg.....Louis A. Gosden
 Terminal Island—1048 S. Seaside.....J. A. Flynn
COLORADO
 Denver—817 17th St.....J. D. Stewart
OREGON
 Astoria—261 Seventh St.....E. F. Olson
 Portland—237 SE Union Ave.....C. H. Caudy
WASHINGTON
 Seattle—Fisherman's Terminal.....H. R. Ginther
WYOMING
 Casper—P.O. Box 413.....W. E. Garrard

Regional Manager—West Coast

CALIFORNIA
 Terminal Island—1048 S. Seaside...Lewis L. Livesly

Distributors

ARIZONA
 Phoenix.....Arizona Engine & Pump Co.
CALIFORNIA
 San Diego.....National Shipbuilding & Steel Co.

WHITE MANUFACTURING CO.
 1227 West Beardsley Avenue
 Elkhart, Indiana

PRODUCTS: Asphalt Plants; Asphalt Heating Kettles; Aggregate Dryers; Concrete Vibrators; Concrete Grinders; Concrete Trowlers; Kerosene Torches and Heaters.

Distributors

ALASKA
 (Seattle).....Northern Commercial Co.
ARIZONA
 Phoenix.....Equipment Sales Co.
CALIFORNIA
 San Francisco.....Rix Co.
COLORADO
 Denver.....Rental Machinery Co.
 Grand Junction.....S & M Supply Co.
IDAHO
 Boise.....Intermountain Equipment Co.
MONTANA
 Billings.....Industrial Equipment Co.
 Great Falls.....Northmont Equipment Co.
NEVADA
 Reno.....Sanford Tractor & Equipment Co.
NEW MEXICO
 Albuquerque.....Contractors Equipment Co.
OREGON
 Eugene.....Howard-Cooper Corp.
 Portland.....Howard-Cooper Corp.
UTAH
 Salt Lake City.....Lang Construction Eqt. Co.
WASHINGTON
 Seattle.....Howard-Cooper Corp.
 Spokane.....Intermountain Equipment Co.

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
 Northern Life Tower, Seattle

416 West 8th Street, Los Angeles
 Equitable Building, Portland

THE WHITE MOTOR CO.

842 East 79th Street
Cleveland 1, Ohio

PRODUCTS: White Motor Trucks, Busses and Crane Carriers, Gasoline and L.P.G.; White Industrial Engines; Autocar Trucks, Gasoline and L.P.G.

Factory Branch Managers

ALABAMA
Los Angeles—400 E. Washington....H. P. Strother
San Francisco—590 Brannan St....F. H. Ragan

COLORADO
Denver—1910 38th St....R. W. Cochran

IDAHO
Portland—2705 NW Nicolai....H. D. Collins

Regional Vice President

ALABAMA
San Francisco—590 Brannan St....W. D. Patterson

Distributors and Dealers

ALASKA
Anchorage....Northland Sales, Inc.
Fairbanks....Fairbanks Automotive Co.
Juneau....Christensen Bros. Garage

ARIZONA
Kingman....Williston & Ireland
Phoenix....Truck Equipment Co.
Wilcox....85 Truck Stop
Yuma....Cooper's Tractor & Repair Service

COLORADO
Bakersfield....Southern Garage
Burbank....George Cooper Co.
El Centro....Rhynes Automotive Service
Eureka....De Bon Motor Co.
Fresno....Fresno Trailer Co.
Long Beach....Joe Gill Motor Co.
Napa....Regalia Machine Works
Oakdale....P. E. Van Pelt, Inc.
Oakland....Oakland White Truck Sales
Ontario....Cochran & Nichols, Inc.
Petaluma....John L. Boitano White Truck Sales
Redding....Bystle's Truck & Parts
Riverside....Briggs & Elliott
Sacramento....Arcade White Trucks
San Diego....Southwest Equipment Co.
San Jose....San Jose Autocar White Co.
Santa Rosa....The Miller Motor Co.
Stockton....Garvey Truck Service, Inc.
Ukiah....DeBon Motor Co.
Ventura....Tri-County Equipment Co.
Woodland....Ochoa Bros.

IDAHO
Colorado Springs....Vanco Products

IDAHO
Boise....Boise White Truck & Eqt., Inc.
Lewiston....Henderson Motors, Inc.
Roberts....Jackson Auto Service

MONTANA
Billings....Billings White Truck Co.
Great Falls....Great Falls White Co.
Helena....Frontier Motors, Inc.
Kalispell....Kalispell Service Co.
Lewiston....Central Motor Sales
Miles City....Walters' Repair Shop
Missoula....Taber White Truck Co.
Wolf Point....Taylor Motors

NEVADA
Reno....General Equipment Co.

NEW MEXICO
Albuquerque....Inland White Truck Co.
Carlsbad....H. T. Page
Hobbs....Hobbs White Truck Co., Inc.

OREGON
Albany....Oregon Truck Sales, Inc.
Coos Bay....Harbor Diesel & Supply Co.
Eugene....Gunderson Bros. Engineering Corp.
Medford....Haupt Truck Co.
Wicham Parts & Equipment Co.

UTAH
Cedar City....Jones Motor Co.
Salt Lake City....Lindner & Wood White Motor Sales

WASHINGTON
Bellingham....Arnett White Truck Sales
Ellensburg....Faltus & Peterson, Inc.
Pasco....Thompson Truck Service
Raymond....Ed Pederson Sales & Service
Seattle....Fageol Motors, Inc.
Spokane....Jones White Truck Co.
Tacoma....Frank Buchanan Sales Co.
Vancouver....McCoy Auto Co.

WYOMING
Casper....Century White Truck Co., Inc.
Cheyenne....Klipstein Motor Sales
Laramie....Diamond Horseshoe, Inc.
Newcastle....Newcastle Equipment Co.
Norland....H & S Motor Co.
Torrington....Truck Equipment & Supply Co.

WHITEMAN MANUFACTURING CO.

13020 Pierce Street
Pacoima, California

PRODUCTS: Concrete Finishing Machines; Screeding Machines; Vibrators; Power Buggies; Grinders; Vibratory Screeds; Truck Mixers; Tampers; Scream Stakes.

District Managers.....B. LaBarr, E. A. Megroz

Distributors

ALASKA
Anchorage....Yukon Equipment Co.

ARIZONA
Phoenix....Arizona-Cedar Rapids Co. (Truck Mixers)
Baker-Thomas Lime & Cement Co.
Tucson....Bogard GMC Co. (Truck Mixers)

CALIFORNIA
El Centro....D-M Equipment Co.
Bakersfield....Builders Supply & Eqt. Co., Inc.
Berkeley....West Coast Engine & Eqt. Co. (Truck Mixers)
Los Angeles....Brown-Beris Industrial Eqt. Co.
Electric Tool & Supply Co.
Essick Machinery Co.
Garlinghouse-Fremont & Co.
Gridley Equipment Co.
Smith-Booth-Usher Co.
Porterville....Porterville Farm Implement Co.
Redding....Oaks Sand & Gravel (Truck Mixers)
San Bernardino....W-K Equipment Co.
San Diego....Southern Equipment & Supply Co.
San Francisco....Edward R. Bacon Co.
Santa Ana....Orange County Equipment Co.

COLORADO
Denver....Western Machinery Co.

IDAHO
Boise....Starline Equipment Co.
Idaho Falls....Parkinson Tractor Co.
Pocatello....Western Machinery Co.

MONTANA
Billings....Midland Implement Co.
Butte....Hall-Perry Machinery Co.
Great Falls....Hall-Perry Machinery Co.
Helena....Steffeck Equipment Co.

NEVADA
Las Vegas....Inland Service & Supply Co.
Reno....Sanford Tractor & Equipment Co.
Sierra Machinery Co.

NEW MEXICO
Albuquerque....Contractors Equipment & Supply Co.

OREGON
Portland....Andrews & Andrews
Schetky Equipment Corp (Truck Mixers)

UTAH
Salt Lake City....Lund Machinery Co.

WASHINGTON
Seattle....Schetky Equipment Corp. (Truck Mixers)
Vehicle Sales, Inc. (Truck Mixers)
Spokane....Star Machinery Co.

WYOMING
Casper....Keremi Tractor & Equipment Co.
Cheyenne....Keremi Tractor & Equipment Co.

WICKWIRE SPENCER STEEL DIVISION

See Colorado Fuel & Iron Corp.

WILLARD CONCRETE MACHINERY SALES CO.

11700 Wright Road
Lynwood, California

PRODUCTS: Concrete Machinery.

Distributors

ALASKA
Anchorage....Bashaw Equipment Co.

ARIZONA
Phoenix....Arizona Equipment Sales Co.
Heltel GMC Truck Co.

CALIFORNIA
Berkeley....Work Truck Equipment Sales

COLORADO
Denver....Accessory Supply Co.

MONTANA
Great Falls....Western Construction Equipment Co.

NEVADA
Reno....Sierra Machinery Co.

OREGON
Medford....Cal-Ore Machinery Co.

WASHINGTON
Spokane....Spokane Machinery Co.

WILLIAMS BUCKET DIVISION

Wellman Engineering Co.
113 St. Clair Ave., N.E.
Cleveland 14, Ohio

PRODUCTS: Buckets, Clamshell and Dragline; Wood and Stone Grapples.

Distributors

ARIZONA
Phoenix....Lee Redman Equipment Co.

CALIFORNIA
El Monte....Warnock-Bancroft Equipment Co.
San Francisco....Coast Equipment Co.

COLORADO
Denver....McCoy Company

IDAHO
Boise....Western Equipment Co.

MONTANA
Glasgow....Tractor & Equipment Co.
Missoula....Westmont Tractor Co.
Sidney....Tractor & Equipment Co.

NEW MEXICO
Albuquerque....R. L. Harrison Co.

OREGON
Portland....Interstate Tractor & Equipment Co.

UTAH
Salt Lake City....Cate Equipment Co.

WASHINGTON
Seattle....Air Mac, Inc.
Spokane....Air Mac, Inc.

WILLYS MOTORS, INC.

North Cove Boulevard
Toledo 1, Ohio

PRODUCTS: Jeeps, Trucks (4-wheel drive) including Forward Control Models; Station Wagons and Sedan Deliveries, in both 2 and 4-wheel drive.

Willys Sales Corp.

CALIFORNIA
Emeryville—5950 Doyle St....R. M. Hoen
San Francisco—1485 Bayshore Blvd....J. Beattie, Jr.

COLORADO
Denver—3855 Forest St....P. J. Noonan

Distributors

ARIZONA
Phoenix....Ray Korta

MONTANA
Billings....George R. Pierce, Inc.
Great Falls....Robinson Motor Co.

THE WINTER-WEISS CO.

2201 Blake Street
Denver 5, Colorado

PRODUCTS: Low-Bed Machinery Trailers; Contractors Bodies; Truck Mounted Rotary Drilling Rigs for blast holes, rock removal, etc.

Factory Branch

NEW MEXICO
Albuquerque—Manager....Morris G. Clark

WIRE ROPE CORP. OF AMERICA

370-10th Street
San Francisco 3, California

PRODUCTS: Wire Rope; Scraper Cable; Multi-Part Slings; Aircraft Cords; Galvanized Strand; Steel Grip Slings; Cable Laid Slings; Safety Splice Slings.

Factory Branch Managers

CALIFORNIA
San Francisco—370-10th St....Clyde E. Karch

COLORADO
Denver—3649 E. 40th Ave....Wally Ulrich

OREGON
Portland—2221 NW Thurman St....Chug Reavis

WISCONSIN MOTOR CORP.

1910 South 53rd Street
Milwaukee 46, Wisconsin

PRODUCTS: Heavy-duty, Air-cooled, Internal Combustion Engines—3 to 56 HP; one, two and four cylinder models.

Distributors

ARIZONA
Phoenix....Pratt-Gilbert Hardware Co.

(Continued on next page)

**C. I. T. provides experienced financing for
Distributors and Contractors**

Wisconsin Motor Corp. (Cont'd)

CALIFORNIA
Emeryville.....E. E. Richter & Son, Inc.
Los Angeles.....Continental Sales & Service Co.

COLORADO
Denver.....Central Equipment Co.

IDAHO
Boise.....Arnold Machinery Co., Inc.
(Salt Lake).....Arnold Machinery Co., Inc.
(Spokane).....Star Machinery Co.

MONTANA
Billings.....Midland Implement Co., Inc.

NEVADA
(Emeryville).....E. E. Richter & Son, Inc.
(Los Angeles).....Continental Sales & Service Co.
(Salt Lake).....Arnold Machinery Co., Inc.

NEW MEXICO
Albuquerque.....Central Auto Electric Co.

OREGON
Portland.....Independent Distributors

UTAH
Salt Lake City.....Arnold Machinery Co., Inc.

WASHINGTON
Seattle.....Star Machinery Co.
(Portland).....Independent Distributors

WYOMING
(Billings).....Midland Implement Co., Inc.
(Denver).....Central Equipment Co.
(Salt Lake).....Arnold Machinery Co., Inc.

WITTE ENGINE WORKS
Oil Well Supply Division
United States Steel Corp.
1600 Oakland Avenue
Kansas City 26, Missouri

PRODUCTS: Diesel and Gas-Gasoline Engines and Engine-Generator Sets.

Distributors

ALASKA
(Seattle).....Northern Commercial Co.

ARIZONA
Tucson.....Wilco

CALIFORNIA
Berkeley.....West Coast Motors
Long Beach.....Equipment Service Co.

COLORADO
Denver.....McDoy Co.
Pueblo.....Johnson Electric Co.

MONTANA
Missoula.....Westmont Tractor Co.

NEVADA
Elko.....P-M Supply Co.
Ely.....Ely Motor Supply
Reno.....Air Service Co.

NEW MEXICO
Gallup.....Gallup Car Parts, Inc.
Socorro.....New Mexico Diesel Electric Co.

UTAH
Salt Lake City.....Diesel Electric Service & Supply Co.

WASHINGTON
Seattle.....Northern Commercial Co.

WONDER BUILDING CORP. OF AMERICA

30 North La Salle Street
Chicago 2, Illinois

PRODUCTS: Pre-Engineered Steel Buildings.
FRANCHISED DISTRIBUTORS THROUGHOUT THE U.S.

WORTHINGTON CORPORATION

Concrete Mch. & Contractors
Pump Dept.
Plainfield Division
South Second Street
Plainfield, New Jersey

WORTHINGTON CORPORATION

Portable Compressor & Air Tool Dept.
Holyoke Division
Holyoke, Massachusetts

PRODUCTS: Concrete Agitators; Concrete Mixers; Truck Mixers; Tunnel Mixers; Tunnel Agitators; Pneumatic Placers; Pavers; Contractors Pumps; Compressors; Air Tools; Backfill Tampers; Triplex Tampers; Clay Diggers; Paving Breakers; Rock Drills; Wagon Drills.

(Continued in next column)

Worthington Corporation (Cont'd)**District Office Managers**

CALIFORNIA
Los Angeles—5075 Santa Fe Ave...E. W. Hammond
San Francisco—224 Townsend St...P. L. McManus

UTAH
Salt Lake City—118 Social Hall Ave...P. E. Wilson

WASHINGTON
Seattle—2616 Western Ave...C. D. Cummins

Distribution Representatives

CALIFORNIA
Los Angeles—5075 Santa Fe Ave...C. R. Angell
San Francisco—224 Townsend St...C. R. Angell

UTAH
Salt Lake City—118 Social Hall Ave...P. E. Wilson

WASHINGTON
Seattle—2616 Western Ave...C. W. Crony

Distributors

ALASKA
Anchorage.....Bashaw Equipment Co.

ARIZONA
Phoenix.....Southwest Equipment Co.

CALIFORNIA
Arcata.....Humboldt Machine Works
Bakersfield.....Inland Equipment Co.
Oakland.....Mixermobile Sales & Service, Inc.
Richmond.....L. E. McDowell Co.
San Bernardino.....H. P. Kingsley Co.
San Diego.....Kenton Equipment Co.
San Francisco.....Western Tractor Co.

IDAHO
Boise.....G. K. Machinery Co.

MONTANA
Missoula.....Miller Machinery Co.

NEVADA
Reno.....Sanford Tractor & Eqpt. Co.

NEW MEXICO
Albuquerque.....Construction Machinery Co.
New Mexico Equipment Co.

OREGON
Eugene.....Western Equipment Co.
Portland.....Western Equipment Co.

UTAH
Salt Lake City.....Rocky Mountain Machinery Co.

WASHINGTON
Seattle.....Star Machinery Co.
Spokane.....Star Machinery Co.

WYLIE MANUFACTURING CO., INC.

640 North Meridian Street
P.O. Box 7086
Oklahoma City, Oklahoma

PRODUCTS: Tailgate Mixer for remixing and reactivating stockpile asphalt; Portable Hot Asphalt Patch Machine; 15-20 Ton Asphalt Plant, portable or stationary.

Western Representative

IDAHO
Boise—307 S. Phillippi St.....Doug Gibson

Distributors

ALASKA
Anchorage.....Craig Taylor Equipment Co.

ARIZONA
Phoenix.....Equipment Sales Co.

CALIFORNIA
Oakland.....Spears-Wells Machinery Co.

COLORADO
Denver.....Western Machinery Co.

IDAHO
Boise, Idaho Falls and Twin Falls.....Southern Idaho Equipment Co.

MONTANA
Butte.....Pioneer Equipment & Supply Co.

NEVADA
Reno.....Graid Equipment Co.

NEW MEXICO
Albuquerque.....Industrial Supply Co.

OREGON
Medford.....Cal-Ore Machinery Co., Inc.

UTAH
Salt Lake City.....Western Machinery Co.

WASHINGTON
Seattle.....Air Mac, Inc.

WYOMING
Casper.....Studer Tractor & Equipment Co.

THE YALE & TOWNE MFG. CO.

11000 Roosevelt Blvd.
Philadelphia 15, Pennsylvania

PRODUCTS: Hoists, hand and electric; Industrial Lift Trucks, hand and motorized; Front End Loaders, rubber tired.

(Continued in next column)

The Yale & Towne Mfg. Co. (Cont'd)**Factory Branches**

CALIFORNIA
Fresno—410 Broadway.....W. J. Stroud
Los Angeles—5711 E. Olympic Blvd...J. N. McEntee
Sacramento—2015 "J" St.
San Diego—4410 Kearney Mesa Rd.
San Leandro—1251 Doolittle Dr...L. W. Goldenson

Western Personnel

OREGON
Salem—
Western Regional Sales Mgr.....George C. Lichty
985 Grand View Place

WASHINGTON
Seattle—District Hoist Mgr.....D. P. McCarthy
3208 Shorewood Dr., Apt. 43, Mercer Island

Distributors

ARIZONA
Phoenix...Kinney Materials Handling Equipment, Inc.
Tucson...Kinney Materials Handling Equipment, Inc.

COLORADO
Denver.....Joe Coursey Equipment Co., Inc.

NEW MEXICO
Albuquerque.....Albuquerque Materials Handling Co.

OREGON
Portland.....Prentice Material Handling Co.

UTAH
Salt Lake City.....Materials Handling Engineers

WASHINGTON
Seattle.....Coast Associates, Inc.
Spokane.....Towne Equipment Co., Inc.

YAUN MANUFACTURING CO., INC.

2120 North Third Street
Baton Rouge 2, Louisiana

PRODUCTS: Dragline Buckets; Clamshell Buckets; Concrete Buckets; Spreaders and Piles.

Distributors

ARIZONA
Phoenix.....Arizona Equipment Sales, Inc.

CALIFORNIA
San Francisco.....Standard Machinery Co.
Stockton.....Action Equipment Co.

NEW MEXICO
Albuquerque.....N. C. Ribble Co.

WASHINGTON
Seattle.....Andrews Mch. of Washington, Inc.

YUBA CONSOLIDATED INDUSTRIES, INC.

351 California Street
San Francisco 4, California

PRODUCTS: Judson Pacific-Murphy Corp., Emeryville, Calif.; Bridges; Reinforced Steel; Structural Steel; Buildings.
Western Rolling Mills Div., Phoenix, Ariz.: Strapping Steel; Reinforcing Steel Bars.
Yuba Mfg. Div., Benicia, Calif.: Dredges (bucket line and hydraulic); Movable Positive Ejection Wagons for use with all makes of rubber-tired tractors; Barges; Cranes (bridge and gantry); Gates (fixed wheel, slide, tractor, etc.); Hoists; Winches; Loaders; Conveyors; Derricks; Trash Racks and Rakes; Screens; Jigs; Forms (tunnel and dam); Wagons (dirt).
Yuba Mining Div., Benicia, Calif.: Buckets (clamshell); Dredging Equipment; Feeders; Screens

Division Managers

ARIZONA
Phoenix—Western Rolling Mills Div...E. E. Proctor
Professional Bldg., Monroe at Central

CALIFORNIA
Benicia—Yuba Mfg. Div.....George H. DeKay, Jr.
701 East "H" St.
Emeryville—
Judson Pacific-Murphy Corp....J. Philip Murphy
4300 Eastshore Highway (A Subsidiary)

ZUMAR INDUSTRIES

1608 Essex Street
Los Angeles 21, California

PRODUCTS: Flanged Channel Steel Posts—Sign, Guide and Fence Posts; Culvert Markers and Reflector Units—Complete units for highway, street and traffic lane delineation; Baked Enamel Highway, Traffic and Safety Signs—Supergloss Baked Enamel, Scotchlite Reflectorized; Custom Made Signs.

Distributors

Write for name of your nearest dealer.

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
Northern Life Tower, Seattle

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DISTRIBUTORS' SECTION

CONTAINS . . .

Names of Distributors arranged alphabetically by states and cities, and alphabetically by companies within cities, with their addresses, personnel, phone numbers, branch offices, and lines handled.

INDEX BY STATES

ALASKA	2 D
ARIZONA	4 D
CALIFORNIA	9 D
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NEW MEXICO	50 D
OREGON	52 D
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WYOMING	72 D

WESTERN

CONSTRUCTION

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Parts Manager... H.R.Miller Service Mgr.....H.R.Miller

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American Steel Scraper Co.
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Champion Manufacturing Co.
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Chicago Pneumatic Tool Co.
Columbia Steel Casting Co.
The Conveyor Co.
Deutz Diesel Engines
Earle M.Jorgensen Co.
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Flygt Pumps
Good Roads Machinery Co.
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Hayward Company
Hlab Cranes
Hose Accessories Co.
Huber-Warco Co.
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Link-Belt Speeder Corp.
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Master Vibrator Co.
McCaffrey-Ruddock Tagline Corp.
Metal Forms Corp.
Moore-Rane Co.
Motorborr-Pionjar Drills
Morse-Starrett Products
Muller Machinery Co.
Page Engineering Co.
Pacific Wire Works
Rust-Oleum Corp.
Sam Mulkey Co.
Sargent Engineering, Inc.
Sicard Industries, Inc.
Standard Steel Corp.
Standard Steel Works
Tap Equipment Co.
Templeton, Kenly & Co.
Transport Trailers, Inc.
Vibro-Plus Products, Inc.
Winslow Govt.Std.Scale Works
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Wright Power Saw & Tool Corp.
Wylie Manufacturing Co.
Yale & Towne Mfg. Co.—
Trojan Div.
Young Iron Works

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Post Road, P.O.Box 894

PH: 65795

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PH: 77351

Manager..... Gragg Gilkey

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400 Post Road

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VP & Sls.Mgr.... John P.Bagoy
Parts Manager... John P.Bagoy

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O.Ames Co.
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ARO Equipment Co.
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Atlas Press Co.
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Bonney Forge & Tool
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Milwaukee Tool Corp.
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Oster-Cummins Tool Corp.
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(Continued on next page)

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Duff-Norton Co.
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Fairbanks-Morse Co.
Federated Metals
Flexco Belt Lacing
John Flocker Co.
Gardner-Denver Co.
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Greenlee Tool Co.
Hein-Warner Corp.
Heller Brothers Co.
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Vincent Tool Co.
Vulcan Tool Mfg. Co.
Wagner-Lockheed Auto. Eqpt.
Warren Axe & Tool Co.
Whittaker Cable Corp.
Winter Brothers

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Logging — Equipment &
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PH: 2176

Manager..... John Mues

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Alaska R.R. Industrial Area PH: 4414

Manager..... Ronald Taffinder

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Manager..... Alfred J. Lomen

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Manager..... Elwyn Pym

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Manager..... D.J. McDonald

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PH: MA 22

Manager..... Steve Andersen

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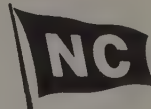
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Machinery Division
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(Continued on next page)

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Ketchikan	D.J.McDonald	"	PH: 2034
Nome	Steve Andersen	"	PH: 22

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DeWalt, Inc.	Rex
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Fleco Corporation	Stoody Company
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Manager..... Dean Stapley

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 Arizona Blvd. PH: PA 3-5454

Manager..... Ray Osborn

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 PH: 17

Manager..... Marvin Scott

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 Baseline and Chandler PH: WO 4-5366

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Manager..... Thomas Stapley

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 Parts Manager... Ken Bandy Service Mgr..... Ken Bandy

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(SEE OUR AD ON OPPOSITE PAGE)

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Braden Winch Co.	Twin Disc Clutch Co.
Bros Incorporated	Universal Engineering
Hamischfeger Corp. (P & H)	Wagner Tractors, Inc.
Hensley Equipment Co.	Western Industries
M-R-S Manufacturing Co.	Willard Concrete Machinery

(SEE OUR AD ON OPPOSITE PAGE)

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 Parts Manager... Buster Burris Service Mgr..... Clarence Brown

(Continued on next page)

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Coolidge	Arizona Blvd.	Ray Osborn	PH: PA 3-5454
Flagstaff	Industrial Park	Ed Mays	PH: PR 4-2744
Mesa	Baseline and	George Brenner	PH: WO 4-5366
	Chandler		
Tucson	S.3rd & 38th St.	Jim McGuire	PH: MA 4-2557

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Manager..... Howard Brown

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2300 S. 16th Street	PH: AL 8-6081
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	Service Mgr.....John Gentry

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Manager..... Ray Bryant	Treasurer..... Jim Bohling
Parts Manager... Bob Allison	Service Mgr.....Don Doyle

(Continued in next column)

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Butler Bins	Gallon Manufacturing Co.
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	Wain-Roy Mfg. Co.

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Treasurer..... Harlen O.Wold	Service Mgr.....Clyde Scott

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Holbrook	701 W.Hopi Drive	Hal Clarkson	PH: 156-J
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 Parts Manager... Ed. Smith Service Mgr..... Sam Spanos

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Dixon Valve & Coupling Co.	Prime Mover Co.
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Elgin-Leach Co.	Quick-Way Truck Shovel Co.
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Gar-Bro Manufacturing Co.	T.L. Smith Co.
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Hyster Company	Wilshire Power Sweeper Co.
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PH: AL 8-3794

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Chicago Pneumatic Tool Co.	Naylor Pipe Co.
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Coppus Engineering Co.	Republic Rubber Co.
Cullman Wheel Co.	Ridge Tool Co.
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Denver Equipment Co.	Simplex Wire & Cable Co.
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Duff-Norton Mfg. Co.	Travel Drill Co.
Elizalde & Co.	U.S. Rubber Co.
Fabril Valve, Inc.	Victaulic, Inc.
Garlinghouse, Fremont & Co.	Vulcan Iron Works
Hendrie Belting & Rubber Co.	Yeomans Brothers Co.

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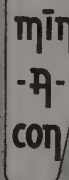
2808 N. 27th Avenue

PH: AP 8-6286

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 VP-Parts Mgr.... L.W. Beck, Jr. Office Manager.. F.E. Tetmeyer
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Sales Manager... J.M. Turner Parts Manager... Vard E. Durfee
Service Mgr..... J.F. McGinnis

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Manager..... George E. Gates Service Mgr..... Zan Pauley
Parts Manager... L. A. Dickinson

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Chain Belt Co., Rex Div.	Standard Steel Works
Childers Manufacturing Co.	Wayne Manufacturing Co.

THE H. C. SHAW CO. (Branch).....PHOENIX
400 E. Pima PH: AL 3-1336

Manager..... George Lazok

SEE MAIN OFFICE LISTING UNDER STOCKTON, CALIFORNIA

SHRIVER MACHINERY CO......PHOENIX
1756 Grand Avenue PH: AL 2-2356

President & Sales Manager..... W.R. Shriver
Parts & Service Manager..... L.G. Edwards

LINES HANDLED

Aerol Products Co., Inc.	Lebus Manufacturing Co.
Cleveland Trencher Co.	McCaffrey-Ruddock Tagline Corp.
Construction Machinery Co.	Master Vibrator Co.
Gar-Bro Manufacturing Co.	Miller Swivel Products Co.
Hendrix Manufacturing Corp.	Shovel Supply Co.
Insley Manufacturing Corp.	Stanco Mfg. & Sales, Inc.
	Wright Power Saw & Tool Corp.

THE O. S. STAPLEY CO......PHOENIX
734 W. Van Buren PH: AL 3-2121

President..... D.L. Stapley Vice President.. T.H. Stapley
General Mgr..... L.E. Stapley Industrial Mgr.... Glenn Stapley
Parts Manager... Cleon Wilda Service Mgr..... Wm.B. Appleby

BRANCH OFFICES

Buckeye	Miller Beechy	Manager	PH: DU 6-4491
Casa Grande	Sam Stapley	"	PH: TE 6-7475
Chandler	Dean Stapley	"	PH: YO 3-6679
Coolidge	Harley Hilgeman	"	PH: PA 3-5427
Glendale	H. Williams	"	PH: YE 7-9241
Maricopa	Marvin Scott	"	PH: 17
Mesa	Thomas Stapley	"	PH: WO 4-8644

LINES HANDLED

American Tractor Eqpt. Corp.	International Harvester Co.
Be-Ge Manufacturing Co.	Koehring of California
Blackwell Burner Co.	Kolman Manufacturing Co.
Blaw-Knox Co.	Lincoln Electric Co.
Briscoe Manufacturers of Cal.	F.E. Myers & Bros. Co.
Cimco	Palmer Electric Mfg. Co.
City Tank Corp.	Pippin Construction Co.
Colorado Fuel & Iron Co.	Seaman-Gunnison Corp.
Columbia Industrial Services	Shawnee Manufacturing Co.
The Conveyor Co.	Straub Manufacturing Co., Inc.
Curtiss-Wright Corp.	Tarrant Manufacturing Co.
Finco, Inc.	Teale & Company
Gledhill Road Machinery Co.	Traffic Equipment Corp.
Goodyear Tire & Rubber Co.	Unit Crane & Shovel Corp.
Gorman-Rupp Co.	Vermeer Manufacturing Co.
Hetherington & Berner, Inc.	Worthington Corp.

SUPERIOR EQUIPMENT CO......PHOENIX
2402 S. 19th Avenue PH: AL 3-2116

President & Manager..... John M. Hazelett
Heavy Equipment Sales Manager..... Wm. Bozman
Building Construction Sales Manager..... Dick Nelson
Parts Manager... John Russell Service Mgr..... Bert Lavender

BRANCH OFFICE

Tucson 2901 S. 4th Ave. George Wood PH: MA 2-1139

LINES HANDLED

Abbey-Scherer Co.	Marion Power Shovel Co.
Apache Powder Co.	Muller Machinery Co.
Automatic Transportation Co.	Municipal Supply Corp.
Baker-Ross, Inc.	Murphy Diesel Co.
Be-Ge Manufacturing Co.	Murphy Scales Co.
Brunner & Lay, Inc.	Nelson-Price, Inc.
Buck Equipment Co.	Patent Scaffolding Co.
J.I. Case Co.	Quincy Compressor Co.
Chattanooga Wheelbarrow Co.	Remington-Mall Tool Co.
Chausse Manufacturing Co.	Rice Pump & Machine Co.
Creative Metals Co.	Rogers Iron Works
Felker Manufacturing Co.	Safety Traffic Cone Corp.
Flaherty Manufacturing Co.	Sauerman Bros., Inc.
Gar-Bro Manufacturing Co.	Shovel Supply Co.
Gledhill Road Machinery	Sonoco Products Corp.
Heltzel Steel Form & Iron Co.	Symons Brothers Co.
Hendrix Manufacturing Co.	Trojan Div., Yale & Towne
Joy Manufacturing Co.	Universal Form Clamp Co.
Laher Electric Co.	Vulcan Iron Works, Inc.
Little Giant Products, Inc.	Westinghouse Mixers
	WestTrac Company

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- Tampo Manufacturing Co.
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WESTERN MACHINERY CO. (Branch).....PHOENIX
820 N. 17th Avenue PH: AL 8-8531

Operation Manager and Acting Sales Manager.....R.B. George
Parts Manager.....Lenard Leeland
Acting Service Manager.....Art Ehrman

BRANCH OFFICE

Tucson 1111 W.St.Mary's Rd. Lester L.Hall PH: MA 2-4777

LINES HANDLED

Air Placement Co.	Ottawa Steel, Inc.
Amer. Push Broom & Brush Co.	Page Engineering Co.
Austin-Western Works	Pak-Mor Manufacturing Co.
Baldwin-Lima-Hamilton Corp.	Pioneer Engineering Works
Champ Corporation	Pitman Manufacturing Co.
Champion Mfg. Co.	Quaker Pacific Rubber Co.
Charles Machine Works	Quincy Compressor Co.
Clark Equipment Co.	Salem Tool Co.
Cleveland Vibrator Co.	Sanstorm Manufacturing Co.
Dixon Valve & Coupling Co.	Sasgen Derrick Co.
Dreyer Vibrator Co.	Schild Bantam Co.
Eimco Corporation	Star Wire Screen & Iron Works
Gar-Bro Manufacturing Co.	Superior-Lidgerwood-Mundy Corp.
Good Roads Machinery Co.	Tampo Manufacturing Co.
H & L Tooth Co.	Thor Power Tool Co.
Jackson Vibrators, Inc.	Trac-Machinery Corp.
Jaeger Machine Co.	Travel Batcher Co.
LaCrosse Trailer Corp.	Thurman Machine Co.(Scale Div)
Littleford Bros., Inc.	Union Wire Rope Corp.
Madsen Iron Works	Universal Dredge Mfg. Co.
Maginniss Power Tool Co.	Vibro-Plus Products, Inc.
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MA-2-1139**

(SEE LISTING ON PRECEDING PAGE)

ARIZONA MACHINERY CO. (Branch).....TUCSON
S. 3rd and 38th Street PH: MA 4-2557

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CUMMINS ARIZONA DIESEL, INC. (Branch).....TUCSON
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NEIL B. MCGINNIS EQUIPMENT CO. (Branch).....TUCSON
6531 Sheppard Hills PH: AX 8-1397

Manager.....J.M."Pat"Turner

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ROAD MACHINERY CO. (Branch).....TUCSON
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Manager.....Bill Fuhst

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RONSTADT HARDWARE CO.....TUCSON
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Parts Manager...Jim McCall Service Mgr.....Gene Simpson

LINES HANDLED

Coffing Hoists
C.F.&I.Grader Blades
Delta Power Tools
DeWalt Radial Saws
Drott Bulclams & Loaders
Fairbanks-Morse Co.
Galion Iron Works
Goodrich Mechanical Products
Frank G.Hough—Payloaders

Internatl. Harvester—Industrial
Internatl. Harvester Power Units
Internatl. Harvester—Gen. Line
Miller Falls Tools
Shopsmith
Skill, Inc.—Power Tools
Southwest Welding & Mfg. Co.
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Wickwire Wire Rope

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Manager..... M.E. Braden

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RADEN MACHINERY CO.....YUMA
16th Street & Arizona Ave. PH: SU 3-7866

President..... F.C. Braden VP & Sls. Mgr.... Lloyd V. Smith
Parts Manager... G.K. Hadley Service Mgr..... Clark Arnold

BRANCH OFFICE

Wellton E. Highway 80 M.E. Braden PH: ST 5-3391

LINES HANDLED

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Balderson, Inc.	Freeman Baler
Be-Ge Manufacturing Co.	Hardie Duster
Butler Manufacturing Co.	Hyster Company
Caterpillar Tractor Co.	Leschen Rope Co.
Construction Machinery Co.	Preco, Inc.
Croze Wagons	Trackson Company
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Fleco Products	Wisconsin Engines

CALIFORNIA

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PH: 7301

Manager..... C. Evans

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Manager..... Anthony Borges

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OTY & VAN DYKE, INC. (Branch).....ARCATA
PH: Van Dyke 2-3681

Manager..... Don Perry

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BROWN-BEVIS-INDUSTRIAL EQPT. CO. (Branch)....BAKERSFIELD
1419 Union Avenue PH: FA 5-1239

Manager..... J.A. Close

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ROOK COMPANY (Branch).....BAKERSFIELD
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Manager..... H.J. Cady

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Manager..... E.C. Swallow

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Manager..... Douglas D. Davies

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Sales Manager... Lewis R. Smith	Parts Manager... W.C. Melton
	Service Mgr..... James H. Hill

LINES HANDLED

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Brunner & Lay, Inc.	Minneapolis-Moline Co.
Duff-Norton Mfg. Co.	Pacific Coast Brush Co.
Edwards Wire Rope	Pettibone Mulliken Co.
Electric Steel Fdry. Co. (ESCO)	Raybestos-Manhattan Co.
Felker Manufacturing Co.	Sanstorm Manufacturing Co.
Gruendler Crusher & Pulv. Co.	Schield-Bantam Co.
Homelite Company	Toledo Pressed Steel Co.
Earle M. Jorgensen Co.	Westrac Company
M.P. McCaffrey Co., Inc.	Worthington Corp.
	Wacker Corp.

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4000 Rosedale Highway PH: FA 5-9001

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Parts Manager... Larry Pocorena	Service Mgr..... Homer Hardin

LINES HANDLED

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G.M. Diesel Engines

SAN JOAQUIN TRACTOR CO.....BAKERSFIELD
California Ave. at Hwy. 99 PH: FA 4-4517

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	Parts Manager... Donald Radon

BRANCH OFFICES

Delano	305 High St.	Ray Gabriel	PH: 2531
Wasco	620 Formosa Hwy.	Jakle Siemens	PH: PL 8-2127

LINES HANDLED

Allis-Chalmers Mfg. Co.	Gar Wood Industries, Inc.
Ateco Sales Corp.	Henry Manufacturing Co.
Be-Ge Manufacturing Co.	John Bean Division
The Elgin Corp.	Kwik-Mix Co.
Food Machinery Chem. Corp.	Roebeling Wire Rope Co.
	Tractomotive Corp.

CENTRAL EQUIPMENT CO., INC.....BERKELEY
1230 - 6th Street PH: LA 6-5061

President..... A.H. Hewett	Vice President.. S.H. Hewett
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BRANCH OFFICES

Hayward	148 Jackson Rd.	PH: LU 2-2344
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LINES HANDLED

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Carter Pumps	Marlon Power Shovel Co.
Cleco Air Tools	Onan Generators
Clementina Sandblast Equip.	Quincy Compressor Co.
Jay Manufacturing Co.	Vulcan Steel Co.
LeRoi Air Compressors	Westinghouse Air Compressors
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HAWKINS & HAWKINS CO., INC.....BERKELEY
1255 East Shore Highway PH: LA 5-8500

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Sales Manager... K.H. Springer	Sign Foreman... T.B. Hammock

(Continued on next page)

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LINES HANDLED

Centerlite Reflective Compound	Minnesota Mining & Mfg. Co.
Denominator Manual Traffic Counters	Neo Flashers
Dur-o-Line Pavement Markers	Red Devil Tools
Highway Guard Rails	Robbins "Vinyline"
K-HH-Auto. Traffic Counters	Steel Channel U-Posts
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	Western Progress, Inc.
	Westline Safety Signs

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 1081 Eastshore Highway PH: LA 5-2261

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San Jose	451 Queens Lane	Chas. Antone	PH: CY 7-2130
Ukiah	1146 South Hwy.	Geo. Fretland	PH: HO 2-8831

LINES HANDLED

Acme Iron Works	Overstrom Co.
Allis-Chalmers Mfg. Co.	Standard Steel Co.
Bucyrus Erie Co.	Straub Manufacturing Co.
Chrysler Corp.	Tractomotive Co.
W.E. Grace Mfg. Co.	Transport Trailers, Inc.
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Kohler Corp.	Warner & Swasey (Hopto)


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	Service Mgr. Don Hodge

LINES HANDLED

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Construction Machinery Corp.	Leschen Wire Rope Co.
John Deere Plow Co.	Martin Trailer Co.
Essick Manufacturing Co.	Pacific Wire Rope Co.
	Ulrich Products Co.

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 Highway 99 PH: EX 8-4891

Manager. Don Smith

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LINES HANDLED

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American Tractor & Eqpt. Co.	The Oliver Corp.
Be-Ge Manufacturing Co.	(Transfer Point)
Henry Manufacturing Co.	Ware Machine Works

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Sales Manager... Geo. R. Zumwalt	Parts Manager... A.L. Braly
	Service Manager.. E.H. Borgna

BRANCH OFFICES

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Willows	311 N. Butte St.	Leo J. Riley	PH: WE 4-5427

LINES HANDLED

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American Bosch Co.	Hyster Company
Athey Products Corp.	John Bean Div. - Food Mch. Corp.
Atlas Roller Chain Co.	John Deere Plow Co.
Balderson Co.	Lincoln Electric Co.
Broderick & Bascom Wire Rope	Marvin Landplane Co.
Caterpillar Tractor Co.	Preco, Inc.
Fleco Corp.	Ulrich Products Corp.

DAVIES MACHINERY CO. (Branch) CORCORAN
 832 Whitley Avenue PH: 29

Manager. Bill Devin

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BRIZARD-MATTHEWS MACHINERY CO. (Branch) .. CRESCENT CITY
 Northcrest PH: 3701

Manager. Elvis Offenbacher

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Manager..... Glen Garner

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Brunner & Lay, Inc.	Quincy Compressor Co.
Comet Manufacturing Co.	Remington (Power Tool Div.)
Dixon Valve & Coupling Co.	Rosco Manufacturing Co.
Robert G.Evans Co.	Schramm, Inc.
Kwik-Mix Co.	Skil Corp.
Minneapolis-Moline Co.	Winpower Mfg. Co.

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Pres. & Mgr..... Emile Faure Vice President.. Carol Faure
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LINES HANDLED

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Caterpillar Tractor Co.	John Deere

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LINES HANDLED

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Kohler Lite Plants	Schramm Compressors
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Parts Manager... J.D.McMillon Service Mgr.....J.D.Osborn

LINES HANDLED

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Gar Wood Ind., Inc. (Findlay)	Marine Products Co.
Gripchoist, Inc.	Marquette Mfg. Co.
Joy Manufacturing Co.	Municipal Supply Co.
Link-Belt Speeder Corp.	Thor Power Tool Co.

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Hopkins Exhaust Systems	Westach Electric Tachometers
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610 W. 6th PH: SH 5-1411

Manager..... Charles Hansen

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2016 Broadway, PO Box 41 PH: HI 2-2986

Pres. & Mgr..... E.L.Aikins VP & Sls.Mgr... S.E.Aikins
Parts Manager... S.E.Aikins Service Mgr.....S.E.Aikins

LINES HANDLED

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Cushman Motor Scooters	Used Tractors
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3990 Broadway PH: HI 3-1653

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Service Mgr.... Orval Wallace

BRANCH OFFICES

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Crescent City	Northcrest	E.Offenbacher PH: 3701

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LINES HANDLED

American Tractor & Eqt. Co.	John Deere Plow Co.
Athey Products Corp.	Martin Machine Co.
Caterpillar Tractor Co.	Northwest Engineering Co.
C & D Manufacturing Co.	Pacific Pumps
Edwards Wire Rope	Peerless Pumps
Ferguson Tractors	Preco, Inc.
Fleco Corp.	Rainbird Sales & Engineering
Gould Pumps	Rome Plow Co.
Hyster Corp.	Skagit Corp.
John Bean Fire Engines	Shur-Rane Irrigation Systems
	Ulrich Products, Inc.

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3408 Jacobs Avenue PH: HI 3-5041

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Manager..... R.L. Davis	Sales Manager... G.A. Lucas
Parts Manager... R.E. Gillen	Service Mgr..... J.D. Warkentin

LINES HANDLED

Allis-Chalmers Mfg. Co.	D.W. Onan & Sons, Inc.
Insley Manufacturing Co.	John A. Roebling's Sons Corp.
Malsbary Manufacturing Co.	Schields-Bantam Co.
	Wagner Tractor, Inc.

BUDD & QUINN, INC. (Branch) FIREBAUGH
Highway 33 at 14th PH: OL 9-2117

Manager..... Ben Riley

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ALLIED EQUIPMENT CO. (Branch) FIVE POINTS
Lassen Avenue South PH: Burrel 32

Manager..... Fred McMurrin

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Parts Manager... H.J. McKenna	Service Mgr..... E.A. Smith

BRANCH OFFICES

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Madera	Hwy. 99 So.	Gordon Tucker	PH: OR 4-2481
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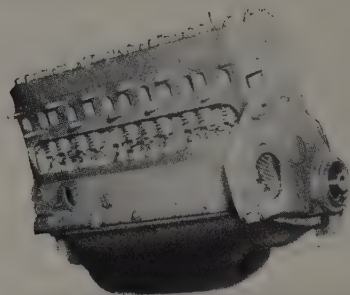
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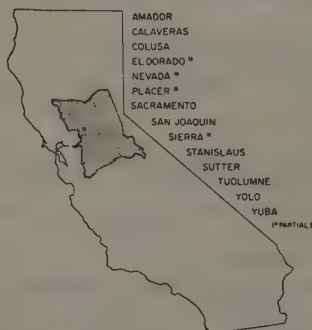
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Adams Welded Steel Products	The Lincoln Electric Co.
Alloy Rods Co.	Linde Air Products, PREST-O-LITE
All State Welding Alloys Co.	Mall Tool Co.
American Optical Co.	Miller Electric Mfg. Co.
Albert & J.M.Anderson Mfg.Co.	National Carbon Co.
Atlas Welding Accessories Co.	National Welding Equipment
Contour Sales Corp.	D.W.Onan & Sons, Inc.
Despatch Oven Co.	Osborn Manufacturing Co.
Drawalloy Corp.	Shober Sales, Inc.
Federated Metals Div.	Sight Feed Generator Co.
General Manufacturing Co.	Geo.W.Smith & Sons
H & M Pipe Beveling Mach.Co.	Stoody Co.
Handy & Harmon	Sylvania Electric Products, Inc.
Harnischfeger Corp. (P & H)	Tempil Corp.
Haynes Stellite Co.	Thermacote Co.
The Hopper Co.	John Tillman & Co.
Jackson Products	Union Carbide & Carbon Corp.
A.P.Johnston Co.	United Wire & Supply Corp.
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 1615 Jerrold Avenue PH: AT 2-0287

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 Sales Manager... W.D.Carlston Parts Manager... Bill Jeffs
 Service Mgr..... R.D.Carlston

BRANCH OFFICE

Sacramento 16th & American River J.Plant, Jr. PH: WA 5-8551

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Gradall Div., Warner & Swasey	Seaman-Andwall Corp.
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Huber-Warco Co.	Tarrant Manufacturing Co.
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- **INSLEY**
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- **MAGINNISS**
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- **FERRO**
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- **MARMON-HERRINGTON**
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- **STANDARD STEEL**
tarkettles, street flushers, oil distributors
- **SEAMAN-ANDWALL**
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- **TARRANT**
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- **HOLT**
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 Branch Manager, San Francisco..... F.H.Ragan
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Los Angeles	400 E.Washington	H.P.Strother	PH: RI 9-9171
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Portland(Ore.)	2705 NW Nicolai	H.D.Collins	PH: CA 6-2411

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Alemite Co.	Luber-Finer, Inc.
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Braden Winch Co.	Timken Roller Bearing Co.
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 1400 S. Harbor Blvd. PH: TE 1-2333

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(Continued on next page)

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Fleco Corp.	H.C.Shaw Co.
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Manager..... Wm.J.Seiman

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Hiab Hydraulic Truck Cranes	Stenberg Universal Woodworkers
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Sales Manager... Joe Stevenson	Parts Manager... Clayton Stafford
	Service Mgr.....Dean Hamman

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Hardie Manufacturing Co.	Hensley Equipment Co.
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Hardwicke-Etter Co.	Yaun Mfg. Co.

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Conomatic-Pippin Div.	Henry Manufacturing Co.
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(SEE OUR AD ON OPPOSITE PAGE)

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Manager..... Leo J. Riley

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 Parts Manager... L.E. Grant

 Vice President.. Eric Pepys
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 Vice President.. R.S.Pearson
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 E.H. Edwards Co.
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 Novo Pump Co.
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 Vulcan Iron Works, Inc.
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 Parts Manager... Robt.R.True

 Vice President.. Harry Rouse
 Service Mgr..... Harold B.Cooper

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 Archer Iron Works
 Barber-Greene Co.
 Barco Manufacturing Co.
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 Campbell Equipment Co.
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 Champion Mfg. Co.
 Childers Mfg. Co.
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 Hendrix Manufacturing Co.

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 Parts Manager... Phil Hale
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- MULKEY Portable Conveyors
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Manager..... John Post

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Huber-Warco Co. Standard Steel Corp.

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1018 Lawrence Street PH: TA 5-3218

Manager..... Lloyd S. Reed

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690 Lincoln Street PH: MA 3-3241President..... R.F. Carlson Vice President.. F.V. Altwater
Sales Manager... W.W. Carlson Parts Manager... Geo. Dassenko
Service Mgr..... Geo. Dassenko

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LINES HANDLED

Austin-Western Co.	Inley Manufacturing Co.
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Blaw-Knox Co.	Leyman Manufacturing Co.
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Colorado Fuel & Iron Corp.	Murphy Diesel Co.
Four Wheel Drive Auto Co.	National Safety Engineers
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	Wausau Iron Works

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LINES HANDLED

Arps Equipment	Schmeiser Til an' Pack
Everett Trenchers	Sherman Products-Diggers
Hydro-Speed Sprayers	Tractor & Implement Div.-
	Ford Motor Co.

McCoy Company (Cont'd)

LINES HANDLED

American Steel & Wire Co.	Gurries Manufacturing Co.
American Tractor Eqpt. Co.	Hyster Co.
Athey Products Corp.	Martin Trailer Div., Hyster Co.
Balderson, Inc.	McCoy Co.
Campbell Cabs	Omaha Steel Works
Caterpillar Tractor Co.	Preco, Inc.
Crenlo Cabs	Rivinius, Inc.
Fleco Corp.	Teale & Co.
	Ulrich Products (Domor)

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2375 - 15th Street PH: GE 3-1957

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Service Mgr..... R. E. Smiley

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Central Engineering Co.	Koehring Div., Koehring Co.
Federal Motor Trucks	Murphy Scales
Hynes Electric Heating Div.	Napco Crab Tractor
	Southwest Welding & Mfg. Co.

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LINES HANDLED

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Anaconda Wire & Cable Co.	Mueller Company
Birdsboro Steel Fdry. & Mach. Co.	Norton Company
Broderick & Bascome Rope Co.	Pacific Pumping Co.
C. H. & E. Manufacturing Co.	Page Engineering Co.
Clyde Iron Works, Inc.	Pennsylvania Crusher Co.
Gardner-Denver Co.	Pettibone Mulliken Corp.
Gilson Bros. Co.	Skil Corp.
Hubbard & Co.	Smith Welding Eqpt. Corp.
Johnston Pump Co.	Stockham Valves & Fittings Co.
Lunkenheimer Co.	Timken Roller Bearing Co.
McKlerman-Terry Corp.	Universal Engineering Co.
Manhattan Rubber Div.	E. H. Wachs Co.
Metal & Thermit, Inc.	Westinghouse Electric Corp.
	Wood Shovel & Tool Co.

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5990 Colorado Blvd. PH: AT 8-0771

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Sales Manager... Jack Moore Asst. Sales Mgr.. Brad Martin
Parts Sales Mgr. Fred Minister Parts Manager... Hank Nerheim
Service Mgr..... Keith Coates

BRANCH OFFICES

Durango	SE on Hiways	Dave Cagle	PH: CH 7-3975
	160-550		
Grand Junction	2335 Grand Ave.	Gene Stout	PH: CH 2-1050

LINES HANDLED

Cleaver Brooks Co.	Jones & Laughlin Wire Rope
Cleveland Trencher Co.	Link-Belt Speeder Corp.
Drott Manufacturing Co.	L. R. Murphy Co.
Eagle Iron Works	Peerless Conveyor Co.
Gallon Iron Works & Mfg. Co.	Quick-Way Truck Shovel Co.
Highway Equipment Co.	Ram Equipment Co.
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International Harvester Co.	Sterling Machinery Corp.
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(Continued in next column)

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Manager..... Thor Groszold Parts Manager... Ben J. Becker
Service Mgr..... Bud Roark

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Baughman Co. Engineered Equipment, Inc.
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Chicago Pneumatic Tool Co. Kohler Co.
Construction Machinery Co. Quincy Compressor Co.
Dixon Valve & Coupling Co. Silent Glow Contractors' Heaters

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Service Mgr..... Max Wyatt

LINES HANDLED

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Ashton Equipment Co., Inc. Lufkin Trailers
Batavia Metal Products Morrison Service Bodies
Boyertown Auto Body Works Perfection Steel Body Co.
Clark Equipment Petersen Engineering Co.
Clybro Hoists & Pumps Primer Manufacturing, Inc.
Cates V-Belt Drive Ramsey Winch Co.
Cendrickson Mfg. Co. Steelweld Equipment Co., Inc.

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Parts Manager... Ed Neujahr Service Mgr..... Ed Neujahr

LINES HANDLED

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Arrow Manufacturing Co. LeTourneau-Westinghouse Co.
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LINES HANDLED

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Air Placement Eqpt. Co. Morgen Mfg. Co.
Champ Corp. Noble Co.
Clark Eqpt. Co. (Michigan) Ottawa Steel Co.
Clayton Mfg. Co. Pitman Mfg. Co.
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Diamond Iron Works Skagit Mfg. Co.
Dreyer Vibrator Co. Sutorbilt Corp.
Eveready Brikshaw Co. Tampo Mfg. Co.
Gar-Bro Mfg. Co. Thor Power Tool Co.
Gar Wood Industries Trac Machinery Corp.
Hetherington & Berner Union Wire Rope Corp.
Jackson Vibrators, Inc. Walter Truck Co.
Jaeger Machine Co. Wemco Products
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Sales..... Gene Stout

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Hwy. 50 Orchard Mesa PH: CH 3-0722

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Sales Manager... L.E.Bartram

VP & Mgr..... John T.Munro
Parts Manager... E.J.Quintana
Service Mgr..... Robt.Blumenthal

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Armco Pipe Co.
Atlantic Metal Hose Co.
Bettis Corp.
Boyer-Campbell Co.
Brunner & Lay Co.
Butler Manufacturing Co.
Campbell Chain Co.
Century Electric Co.
C.H. & E. Mfg. Co.
Champion Blower & Forge Co.
Cleveland Rock Drill Co.
Congress Drives Div.
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Crane Co.
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Denver Fire Clay Co.
Dico Co.
Diesel Energy Corp.
Dodge Manufacturing Co.
Duff Norton Co.
Durbin Durco, Inc.

Jones & Laughlin Steel Corp.
Kaiser Aluminum & Chemical Sales, Inc.
Kohler Co.
LeRoi Co.
Little Giant Co.
L.R.Murphy Co.
Mall Tool Co.
Midland Industries, Inc.
Miller Electric Co.
Morse Starrett Products
Muller Machinery Co.
National Mine Service
Neapco Products Co.
Pearce Steel Corp.
Peerless Pump Div.
Pettibone Mulliken Corp.
Pyrene C-O-Two Div.
Rigid Tool Co.
Rainbird Sales
Remington Arms Co.
Rucker Co.
Scheu Products Co.

(Continued in next column)

S & M Supply Co., Inc. (Cont'd)

Eimco Corp.
Flexible Tubing Corp.
Flour City Brush Co.
Garlock Packing Co.
Gates Rubber Co.
Getman Manufacturing Co.
Gustin Bacon Mfg. Co.
Harnischfeger Corp.
Hensley Equipment Co.
Ingersoll Steel Div.
Insley Manufacturing Co.
Illinois Powder Co.
Insto-Gas Corp.
Jensen Bros. Mfg. Co.
John Bean Co.
Food Mchy. & Chem. Co.

Sellatrom
Siebring Mfg. Co.
Simonds Mfg. Co.
Skagit Iron Works
Skill Corp.
Skookum Co.
Skyline Industries
Templeton, Kenly & Co.
Termite Drills, Inc.
Titan Co.
Turlock Iron Works
Turner Brass Co.
Universal Lamp Co.
Upson Walton Co.
Western Rock Bit Co.
White Mfg. Co.
Wisconsin Co.

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*Alloy Steel & Metals Co.	*M-R-S Co.
Arrow Manufacturing Co.	Miller Spreader Co.
*Austin Western Co.	*Murphy Diesel Co.
Baldwin-Lima-Hamilton Corp.	*Oliver Corp.
*Barber-Greene Co.	*Oshkosh Motor Truck, Inc.
*Brown Manufacturing Co.	Pacific Car & Fdry.Co.(Carco)
*Clayton Mfg. Co.	*Parsons Co.
*Colorado Fuel & Iron Corp.	Pettibone Mulliken Corp.
(Wickwire Div.)	(Buckets only)
*Dixie Dredge	*Pitman Manufacturing Co.
Flexible Steel Lacing Co.	*Sanstom Manufacturing Co.
*Grace Manufacturing Co.	*Schield Bantam Co.
Hensley Equipment Co.	*Schramm, Inc.
Jetco Jiffy Points	*Screen Equipment Co.
*C.S.Johnson Co.	*Standard Steel Works, Inc.
*Ka-Mo Tools	Timken Roller Bearing Co.
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Dempster Bros., Inc.	Page Engineering Works, Inc.
Engineered Equipment, Inc.	Pioneer Engineering Works
Four Wheel Drive Auto Co.	Sargent Engineering, Inc.
Hendrix Manufacturing Co.	Transport Trailers, Inc.
Highway Equipment Co.	Wayne Manufacturing Co.
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LINES HANDLED

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American Hoist & Derrick Co.	Murphy Scales Co.
Cataphote Co.	Rosco Manufacturers
Columbia Steel Casting Co.	Straub Manufacturing Co.
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Cleveland Trencher Co.	Palmer Electric Mfg. Co.
Clyde Iron Works	Ready Power Co.
Eagle Iron Works	Robinson Air Activated
Electric Steel Foundry	Conveyor Co.
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E.D.Etnyre & Co.	Salem Tool Co.
Euclid Division-GMC	Sauerman Brothers, Inc.
Gar-Bro Mfg. Co.	Smith Welding Eqpt. Co.
Good Roads Machinery Co.	Superior Equipment Co.
Hendrix Manufacturing Co.	Symons Brothers Co.
Hobart Brothers	Syntron Co.
Frank G.Hough Co.	Tampo Manufacturing Co.
Hughes-Keenan Co.	Topeka Highway Mower Co.
Ingersoll-Rand Co.	Viber Company
Iowa Manufacturing Co.	Vulcan Iron Works, Inc.
Klauer Manufacturing Co.	White Manufacturing Co.
Kohler Company	Winslow Govt.Std.Scale Works
Lamson Mobilift Corp.	Wright Power Saw Co.

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Behr-Manning, Inc.	Municipal Street Sign Co.
E.D.Bullard Co.	National Twist Drill Tool Co.
Cataphote Co.	P.S.Pell Co.
Coffing Holist Co.	Pyrene-C-O-Two Div., The

(Continued in next column)

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D & M Machine Works, Inc.	Quaker Pioneer Rubber Mills
Dixon Valve & Coupling Co.	Raybestos-Manhattan Co.,
Double J Breaker Co.	Grey-Rock Div.
Electric Steel Foundry Co.	John A.Roebling's Sons Corp.
Engine Life Products Co.	Round Seattle Chain Div.
Engineered Equipment Co.	Simonds Saw & Steel Co.
Flexco Belt Lacing	Skill Corp.
Garlock Packing Co.	Skookum Co., Inc.
B.F.Goodrich Co.	Stayput Clamp & Coupling Co.
Grip-Hoist, Inc.	Stoody Co.
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Hobart Bros. Co.	Taylor Chain Co.
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Boomsnub Co.	Madsen Iron Works
Browning Mfg. Co.	Master Vibrator Co.
Clark Equipment Co.	M-B Corporation
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Secy-Treas..... R. L. Beglan

Vice President.. James Dunn
Parts Manager... Lee Denten
Service Mgr..... M. H. Smith

LINES HANDLED

American LaFrance
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Broderick & Bascom Rope Co.
Columbia Steel Casting Co., Inc.
Dual Parking Meters
Eagle Traffic Signal Co.
Essick Manufacturing Co.
Gorman-Rupp Co.
H & L Tooth Co.
Hamischfeger Co.
Heltzel Steel

Hendrix Manufacturing Co.
Marmon Harrington Co.
Massey-Ferguson
Ottawa Steel Co.
Pettibone-Mulliken (Cary-Lift)
Republic Rubber Div.
Smith Engineering Works
T. L. Smith Co.
Standard Steel Corp.
Steel Processing & Dist. Co.
Utility Body Co.
Whiteman Mfg. Co.

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Fire Equipment

MARMON-HERRINGTON CO.
All-Wheel Drive Trucks

BRODERICK & BASCOM
Wire Rope

NATIONAL SAFETY ENGINEERS
Highway Signs

EAGLE SIGNAL CORP.
Traffic Signals

OTTAWA STEEL DIVISION
Hydra-Hammer Hoos &
Loaders

BURCH CORPORATION
Snow Plows

PETTIBONE-MICHIGAN CORP.
Log Loaders

COLUMBIA STEEL CASTING
Crusher Jaws

REPUBLIC RUBBER DIVISION
Belting & Hose

ESSICK MFG. COMPANY
Rollers & Mixers

STANDARD STEEL CORP.
Asphalt Plants

GORMAN-RUPP COMPANY
Pumps

HARNISCHFEGER CORP.
Draglines, Shovels, Cranes

STEEL PROCESSING & DISTR. CO.
Highway Guard Rail

H & L TOOTH COMPANY
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Concrete Mixers

HELTZEL STEEL FORM
& IRON CO.
Concrete Forms & Equipment

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Crushing & Screening Equip.

HENDRIX MFG. COMPANY
Dragline Buckets

UTILITY BODY COMPANY
Bodies

MASSEY-FURGUSON
INDUSTRIAL DIV.
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Boise, Idaho Phone 4-3321

SOUTHERN IDAHO EQUIPMENT CO. OF BOISE, INC. BOISE
204 E. Myrtle Street PH: 3-6409

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Mgr. & Director.. H. W. Smith
Parts Manager... C. G. Nowland

Vice President.. M. G. Gooch
Store Manager... R. A. Cartwright
Service Mgr..... W. F. Baker

LINES HANDLED

Allis-Chalmers Mfg. Co.
E. V. Briscoe & Sons
Columbia-Geneva Steel Co.,
Div. of U.S. Steel Corp.
Construction Machinery Co.
Gar Wood Industries, Inc.

LeRol Div., Westinghouse Air
Brake Co.
Lippman Engineering Works
Mack Trucks, Inc.
Richardson Road Mch. Co.
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Walters Motor Truck Co.
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204 EAST MYRTLE

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BOISE, IDAHO

WESTERN EQUIPMENT CO. BOISE
4009 Fairview Avenue PH: 3-5401

Manager..... R. E. Peterson General Mgr..... G. M. Gehrke
Sales Manager... E. E. Cornelison Parts Manager... G. C. Highley
Service Mgr..... D. E. Sheehy

BRANCH OFFICES

Burley	E. Main St.	Burley Estes	PH: OR 8-5517
Idaho Falls	N. Yellowstone	Mel Empey	PH: JA 2-1011
Pocatello	2405 Hwy. 30 W.	Ernest Brooks	PH: CE 2-2640
Twin Falls	Highway 30 E.	Jay Stevens	PH: RE 3-2056
Ontario (Ore.)	29 SE 1st St.	B. B. Chisholm	PH: 652

LINES HANDLED

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Caterpillar Tractor Co.
Fleco Corp.
Gurries Manufacturing Co.
Hyster Company

Link-Belt Speeder Corp.
Martin Trailer Division
Omaha Steel Works
Precor, Inc.
Rome Plow Co.
Towner Manufacturing Co.
Ulrich Manufacturing Co.

NON-ALLIED

American Tractor Eqp. Corp.
The Asphalt Cutter & Mch. Co.
Atlas Scraper & Engrg. Co.
Behlen Manufacturing Co.
Briscoe Manufacturers
Broderick & Bascom Rope Co.
Bros Incorporated
Columbia Ind. Services, Inc.
Conseco, Inc.
Crenlo, Inc.
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Double J Breaker Co., Inc.

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Medford Steel Co.
Murray Manufacturing Co.
Ottawa Steel Division
Rivinius, Inc.
E. A. Rogers Co.
Shaw-O-Disc Manufacturers
Southwest Welding & Mfg. Co.
Teale & Co.
Yuba Manufacturing Co.

(SEE OUR AD ON NEXT PAGE)

WESTERN EQUIPMENT CO. (Branch) BURLEY
East Main Street PH: OR 8-5517

Manager..... Burley Estes

SEE MAIN OFFICE LISTING UNDER BOISE

ARNOLD MACHINERY CO., INC. (Branch) IDAHO FALLS
1265 W. Broadway PH: JA 3-0822

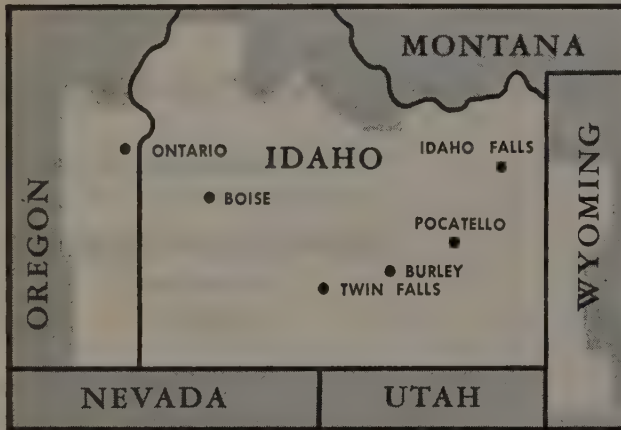
Manager..... Eugene Sandell

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Manager..... T.Kevin Best

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1305 W. Broadway PH: JA 3-0950

Manager..... F.C.Knipe

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President..... S.L.Cate, Jr. VP & Manager... M.G.Gooch
Sales Manager., Geo.R.Heath Service Mgr..... Alden Thompson
Parts Manager... John J.Cawley

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Twin Falls 1925 Kimberly Rd. Frank Kaggie PH: RE 3-3377

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Div. of U.S.Steel Co. Shovel Supply Co.
Construction Machinery Co. Thew Shovel Co.
GMC-Detroit Diesel Eng.Div. Walter Motor Truck Co.
LeRoi Co. Wausau Iron Works

WESTERN EQUIPMENT CO. (Branch).....IDAHO FALLS
N. Yellowstone Hwy. PH: JA 2-1011

Manager..... Mel Empey

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WESTERN MACHINERY CO. (Branch).....IDAHO FALLS
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Manager..... L.R.Clawson

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Branch of Cummins Intermountain Diesel Sales Co.
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Manager..... S.J.Rowbury

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Manager..... Frank Kaggie

SEE MAIN OFFICE LISTING UNDER IDAHO FALLS

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Manager..... Jay Stevens

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WESTERN CONSTRUCTION EQUIPMENT DIRECTORY

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Manager..... C. Davidson

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Cut Bank Manager J.C.O'Donnell PH: 200
Great Falls Manager S.J. Griggs PH: GL 3-2523
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Hoffing Holst Co. Reda Pump Co.
Butler Hammer, Inc. George D. Roper Corp.
The Deming Co. Thor Power Tool Co.
Diamond Chain Co. Tulsa Winch Div., Vickers, Inc.
Hardner-Denver Co. United States Rubber Co.
Gates Rubber Co. Victor Equipment Co.
Hazard Wire Rope Co. Worthington Corp.
Wright Mfg. Div., A.C.C. Co.

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Engineered Equipment Spencer-Safford
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Manager..... Russell Mills

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Manager..... Bob Schenk

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Parts Mgr..... J.T. Woodward Service Mgr..... Dale N. Bashor

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Greybull (Wyo.) 6th Ave. & 8th St. PH: PO 5-4451

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Caterpillar Tractor Co. Preco, Inc.
Fleco Corp. Rivinius, Inc.
Gurries Manufacturing Co. Rome Plow Co.
Hyster Company Southwest Welding & Mfg. Co.
Hyster Co., Martin Trailer Div. Thew Shovel Co.
Industrial Machine Co. Ulrich Manufacturing Co.
Jaeger Machine Co. Yuba Manufacturing Div.

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Service Mgr..... John Selleck

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Bozeman 506 N. 7th PH: JU 7-3880
Great Falls 1107 Smelter Ave. PH: GL 2-6996

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American Tractor Eqpt. Co. Hewitt-Robbins Corp.
Arrow Manufacturing Co. Ingersoll-Rand Co.
Atlas Scraper & Engineering Co. Murray Manufacturing Co.
Bonded Scale Co. Noble Co.
Carver Pump Co. Ottawa Steel
Chausse Manufacturing Co. Pacific Car & Foundry Co.
Cook Bros. Equipment Co. E.A. Rogers Co.
Dart Manufacturing Co. Skagit Steel & Iron Works
Diamond Iron Works Southwest Welding & Mfg. Co.
Erie Steel Construction Co. Tractomotive Corp.
FWD Trucks Warsop Power Tools, Inc.
Gar Wood Industries, Inc. Western Machinery Co.
Good Roads Machinery Co. Western Fence & Wire Works

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505 N. 24th Street PH: 9-5501

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VP & Manager... L.J. Klingler Sales Manager... J.L. Patterson
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2322 River Drive D.W. Doolen Manager PH: GL 3-1405

LINES HANDLED

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Adams Div., LeTourneau- LaCrosse Trailer Corp.
Westinghouse LeRoi Div., Westinghouse
Barber-Greene Co. Air Brake Co.
Bros Incorporated LeTourneau-Westinghouse Co.
Cataphote Co. Little Giant Crane & Shovel Co.
Champion Manufacturing Co. Master Vibrator Co.
Clyde Iron Works Metal Forms Co.
Crane Carrier Corp. Miller Spreader Co.

(Continued on next page)

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Eagle Iron Works
Elgin Corp.
Flour City Brush Co.
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Gorman-Rupp Co.
Gradall Div., Warner & Swasey
Hendrix Manufacturing Co.
Hercules Motors Corp.
Hynes Electric Heater Div.,
Turbine Equipment Co.
C.S. Johnson Div., Koehring Co.
Koehring Div., Koehring Co.
Kolman Manufacturing Co.

Mixermobile Manufacturers
Mobile Drilling Co. (Earth Drills)
Murphy Scales
National Wire Cloth Co., Inc.
Oshkosh Motor Truck Co.
Page Engineering Co.
Parsons Div., Koehring Co.
Quick Charge, Inc.
Raybestos-Manhattan, Inc.
Rynal Corp.
Screen Equipment Co.
Standard Steel Works
Willard Concrete Machinery Co.
Winslow Govt. Std. Scale Works

POWER EQUIPMENT CO. BLACK EAGLE
Highway 87 North PH: GL 2-3265

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Sales Manager... George Spehn

Vice President.. J.W. Swinney
Parts Manager... Wayne Duncan
Service Mgr. A.W. Isakson

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Drott Manufacturing Co.
Gallon Iron Works & Mfg. Co.

Frank G. Hough Co.
International Harvester Co.
Schield Bantam Co.
Wain-Roy Corp.

NASH-DAVIS MACHINERY CO. (Branch) BOZEMAN
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Secy-Treas. J.O. Taylor
Sales Mgr. K.A. Emerson

LINES HANDLED

American Brattice Cloth Corp.
American Cyanamid Co.
American Gage & Mfg. Co.
Bower Bearing Co.
Century Electric Co.
Chicago Rawhide Seals
Delta File Works
Diamond Calk Horseshoe Co.
Dixon Valve & Coupling Co.
Drive-It Tools
Elmco Corp.
Evans Rule Co.
Fafnir Bearing Co.
Flexible Steel Lacing Co.
Gates Rubber Co.
Gustin Bacon Mfg. Co.
Hartwell Brothers

Hein-Werner Corp.
Jaeger Machine Co.
Morse-Starett Products Co.
Ohio Injector Co.
Pacific Grinding Wheel Co.
Punch Lok Co.
Ridge Tool Co.
S.K.F. Bearing Co.
Stephens-Adamson Mfg. Co.
Thermoid Co.
Thor Power Tool Co.
Timken Roller Bearing Co.
Upson-Walton Co.
Victor Equipment Co.
Western Fence & Wire Works
Whitmen & Barnes
Whitney Chain Co.

HALL-PERRY MACHINERY CO. BUTTE
812 E. Iron St. PH: 2-2323

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Sales Manager... W. Lancaster, Jr.

Vice President.. H.G. Dean
Parts Manager... W.D. Rusk
Service Mgr. Ed Seeb

BRANCH OFFICES

Billings 902 Central Ave. W. Lancaster, Jr. PH: 6-6864
Great Falls 1116-15th St. N. W.R. Jones PH: GL 2-8521
Missoula 1621 So. Ave. W. R. Christensen PH: 9-2617

LINES HANDLED

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American Chain & Cable Co.
Austin-Western Div., Baldwin
Lima-Hamilton Corp.
Browning Manufacturing Co.
The Burch Corp.

Kohler Company
Kolman Manufacturing Co.
Littleford Bros., Inc.
Madsen Works, Baldwin
Lima-Hamilton Corp.
Mall Tool Co.
Jude Molene Co., Inc.

(Continued in next column)

Hall-Perry Machinery Co. (Cont'd)

Chain Belt Co.
Cleaver-Brooks Co.
Coffing Hoist Div.
Dart Manufacturing Co.
DeWalt, Inc.
Ensign Products Co.
Euclid Division-GMC
Eveready Brikasaw Co.
Gar-Bro Manufacturing Co.
Goodyear Tire & Rubber Co.
H & L Tooth Co.
Jackson Vibrators, Inc.
Jay Corporation
Joy Manufacturing Co.
Keystone Lubricating Co.

Murphy Diesel Co.
L.R. Murphy Scale Co.
Nordberg Manufacturing Co.
Pacific Wire Works Co.
Page Engineering Co.
Salem Tool Co.
Sauerman Brothers, Inc.
Silent Glow Oil Burner Corp.
Stanco Manufacturers & Sales
Universal Form Clamp Co.
Western Conveyor Co.
Whiteman Manufacturing Co.
Winslow Govt. Std. Scale Works
Wright Power Saw & Tool Corp.
York Modern Corporation

GREAT NORTHERN TOOL & SUPPLY CO. (Branch) CUT BANK
PH: 200

Manager. J.C. O'Donnell

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E. Highway 2 PH: AC 8-9309

Manager. M.R. Otto

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721 - 2nd Street PH: GL 3-1606

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Sales Manager... Gard Spaulding

Manager. Ed Reed
Parts Manager... Frank Savage
Service Mgr. Clayton Donovan

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Havre East Havre Walt Rust PH: 337
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LINES HANDLED

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Balderson, Inc.
Caterpillar Tractor Co.
Fleco Corp.
Gardner Denver Co.
Hyster Co.
Hyster Co., Martin Trailer Div.

Jaeger Machine Co.
Minneapolis Moline-Ind.
Omaha Steel Works
Page Engineering Co.
Precor, Inc.
Shovel Supply Co.
Thew Shovel Co.
Ulrich Mfg. Co. (Domor)
Wickwire Rope

GREAT NORTHERN TOOL & SUPPLY CO. (Branch) GREAT FALLS
PH: GL 3-2523

Manager. S.J. Griggs

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HALL-PERRY MACHINERY CO. (Branch) GREAT FALLS
1116 - 15th Street N. PH: GL 2-8521

Manager. W.R. Jones

SEE MAIN OFFICE LISTING UNDER BUTTE

MILLER MACHINERY CO. (Branch) GREAT FALLS
Box 1418 PH: GL 3-1635

Manager. George Flaherty

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WESTERN CONSTRUCTION EQUIPMENT DIRECTORY

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2121 Vaughn Road PH: GL 2-7905

Owner.....R.M.Smith

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Aerofil Products Co.	Mall Tool Co.
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Armstrong-Bray & Co.	Sam Mulkey Co.
Brunner & Lay	Muller Machinery Co., Inc.
Buck Equipment Co.	L.R.Murphy Scale Co.
Champion Mfg. Co.	Pacific Wire Rope Co.
Colorado Fuel & Iron Corp.	Pacific Wire Works Co.
Dico Company	Page Engineering Co.
R.E.Dietz Co.	Polls Manufacturing Co.
Dixon Valve & Coupling Co.	Quaker-Pioneer Rubber Div.
Electric Steel Foundry Co.	Remington Arms Co.
Fairbanks-Morse Co.	Richmond Screw Anchor Co.
Gar-Bro Manufacturing Co.	W. Rose, Inc.
Goldblatt Tool Co.	Ross Porta-Plant
Homelite Division	Skill Corporation
Jeffrey Manufacturing Co.	Symons Clamp & Mfg. Co.
Earle M.Jorgensen Co.	Thor Power Tool Co.
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Lyle Signs, Inc.	H.S.Watson Co.
Maginniss Power Tool Co.	Winslow Scale Works
	Whiteman Mfg. Co.

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1157 Smelter Avenue PH: GL 3-0091

Owner.....Joe B.Beatty

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Arrow Manufacturing Co.	Northwest Shovels
Blaw-Knox Co.	Page Engineering Works
Chicago Pneumatic Tool Co.	Pioneer Engineering Works
Cleveland Trencher Co.	Prime Movers
Construction Machinery Corp.	Seaman-Andwall Co.
Dumpcrete	The Tampo Mfg. Co.
Engineered Equipment Co.	Teale & Co. Cranes
E.D.Etnyre & Co.	Thurman Scales
Highway Equipment Co.	Trojan Loaders
M-B Refuse Bodies	White Manufacturing Co.

ITZ MACHINERY CO., INC. (Branch).....**GREAT FALLS**
1107 Smelter Avenue PH: GL 2-6996

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ESTERN CONSTRUCTION EQPT. CO. (Division)...**GREAT FALLS**
2322 River Drive PH: GL 3-1405

Manager.....D.W.Doollen Sales Manager...Harold Wright
Service Mgr.....Ralph Sheeks Parts Manager...Walter Mitchell

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ENTRAL MACHINERY CO. (Branch).....**HAVRE**
East Havre PH: 337

Manager.....Walt Rust

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AIRD ENGINEERING WORKS.....**HELENA**
PH: HI 2-1363; 2-7957

President.....G.A.Porte Sales Manager...H.W.Bogie
Parts Manager...F.Montibeller Service Mgr.....Carl Dickman

BRANCH OFFICE

Billings 1239 Burlington C.Davidson PH: 9-5809

LINES HANDLED

American Rubber Mfg. Co.	General Electric Co.
Broderick & Bascom Wire Rope	Inley Manufacturing Co.
Electric Steel Foundry	Oliver Corporation
	Worthington Corp.

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12 E.Lawrence Street PH: HI 2-2990

President.....V.W.McCarthy Vice President..R.G.Keller
Sales Manager...R.V.McCullough Manager.....W.T.McCullough
Parts Manager...Les Dickert Service Mgr.....V.W.McCarthy

BRANCH OFFICE

Billings 1024-4th Ave.N. Bob Schenk PH: 4-4426

LINES HANDLED

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Automatic Devices, Inc.	Marlow Pumps
Brunner & Lay, Inc.	Miro Flex Co.
Columbia Powder Co.	L.R.Murphy Scales
Columbia Steel Casting	Pacific Wire Works Co.
D-A Lubricant Co.	Pitman Hydralift Co.
Dempster Dumpsters & Diggsters	Pettibone-Muliken Corp.
Dependaloy Track Rollers	Pettibone-New York Corp.
Dixon Valve & Coupling Co.	Quick-Way Truck Shovel Co.
Duff-Norton Jacks	Rosco Manufacturing Co.
Edwards Wire Rope	Sanstorn Manufacturing Co.
Electric Steel Foundry Co.	Schramm, Inc.
Essick Mixers	Shovel Supply Co.
Flink Sand Spreaders	T.L.Smith Co.
Good Roads Machinery Corp.	Thor Power Tool Co.
Haiss Manufacturing Co.	Transport Trailers, Inc.
Henry Manufacturing Co.	U.S.Rubber Co. (Industrial)
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1825 N.Main Street PH: HI 2-4450

President.....A.J.Steffeck Parts Manager...Herb Atkins
Service Mgr.....Walt Glasby

LINES HANDLED

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Four Wheel Drive Auto Co.	Wausau Iron Works
Klauer Manufacturing Co.	Whiteman Manufacturing Co.
	Wisconsin Motor Co.

MOUNTAIN TRACTOR CO. (Branch).....**KALISPELL**
3rd Avenue E. & RR Street PH: SK 6-4388

Manager.....George E.Martin

SEE MAIN OFFICE LISTING UNDER MISSOULA

TREASURE STATE EQUIPMENT CO......**KALISPELL**
5th Ave. W.N. & Railroad St. PH: SK 6-3628
Box 138

President.....S.J.Catron Executive VP....John J.Leary
Vice President..G.A.Miller Mgr. & Sls.Mgr...John J.Leary
Parts Manager...P.R.Biggart Service Mgr.....D.H.Luterbach

BRANCH OFFICE

Missoula 400 Knowles Avenue PH: 3-3169
Parts Manager H.E.Sandefur
Service Manager John M.Baggs

LINES HANDLED

Allen Industrial Products Co.	Maxon Dumpcrete Bodies
Allied Steel Products Co.	Ottawa Steel Products Co.
American Tractor Eqt. Co.	Owen Bucket Co.
Anderson Engineering Co.	Pacific Car & Foundry Co.
Baughman Mfg. Co., Inc.	Pressed Steel Car Co.
Blaw-Knox Co.	Prime Mover Co.
Chicago Pneumatic Tool Co.	Quaker Pioneer Rubber Co.
Cleveland Trencher Co.	Seaman Motors, Inc.
Colorado Fuel & Iron Co.	Service Supply Corp.
Drott Manufacturing Co.	Simplicity Engineering Co.
Electric Steel Foundry Co.	Stow Manufacturing Co.
E.D.Etnyre & Co.	Superior Equipment Co.
Gallon Manufacturing Co.	Tarrant Manufacturing Co.
Hensley Equipment Co.	Tracto Lift Co.
Frank G.Hough Co.	Wayne Manufacturing Co.
International Harvester Co.	L.B.White Co.
Malsbary Manufacturing Co.	White Manufacturing Co.

**C. I. T.'s Pay-As-You-Depreciate Plan permits
payments out of depreciation**

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DISTRIBUTORS' SECTION

WESTMONT TRACTOR CO. (Branch).....KALISPELL
55 - 3rd Avenue E.N. PH: SK 6-5007

Manager..... Howard Hurst

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GREAT NORTHERN TOOL & SUPPLY CO. (Branch).....KEVIN
PH: 7

Manager..... T.A. Smith

SEE MAIN OFFICE LISTING UNDER BILLINGS

CENTRAL MACHINERY CO. (Branch).....LEWISTOWN
1st Ave. & Evelyn St. PH: KE 8-3940

Manager..... Joe Manning

SEE MAIN OFFICE LISTING UNDER GREAT FALLS

TRACTOR & EQUIPMENT CO. (Branch).....MILES CITY
S. 5th & Pacific PH: CE 2-4664

Manager..... Jack Kelley

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HALL-PERRY MACHINERY CO. (Branch).....MISSOULA
1621 South Avenue West PH: 9-2617

Manager..... R.H. Christensen

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Box 1496 PH: 9-2309

President..... Otis O. Miller
Office Mgr..... D.V. Scott

Vice President.. D.F. Bartholet
Parts Manager... R. Hallingstad
Service Mgr..... A.E. Richardson

LINES HANDLED

Cedarapids
Clark Equipment Co.
Dodge Mfg. Corp.
Galland-Henning Nopak
Iowa Manufacturing Co.

Michigan
Seaman-Gunnison Corp.
Union Wire Rope Corp.
U.S. Electric Motors, Inc.
Worthington Corp.

MOUNTAIN TRACTOR CO.....MISSOULA
1345 W. Broadway PH: LI 3-6651

Pres. & Mgr..... W.H. McIntyre
Sales Manager... W.O. Wallinder

Vice President.. Geo.E. Martin
Parts Manager... Wm. J. Anderson
Service Mgr..... Kenneth J. Day

BRANCH OFFICE

KalisPELL 3rd Ave. E. & RR St. Geo.E. Martin PH: SK 6-4388

LINES HANDLED

Allis-Chalmers Constr. Mch.
Allis-Chalmers Engines &
Generator Sets
Allis-Chalmers Mtl. Handling
Corley Manufacturing Co.
Electric Steel Foundry
Fairbanks-Morse Scales
Gar Wood Industries, Inc.
Henry Manufacturing Co.

Ingersoll-Rand Co.
Pacific Car & Foundry Co.
John A. Roebling's Sons Co.
Tampo Manufacturing Co.
Thew Shovel Co.
Tractomotive Corp.
West Coast Machinery
Western Conveyor Co.
Young Iron Works

TREASURE STATE EQUIPMENT CO. (Branch).....MISSOULA
400 Knowles Avenue PH: 3-3169

Parts Manager... H.E. Sandefur Service Mgr..... John M. Baggs

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150 E. Spruce Street PH: 6-6666

Pres. & Mgr..... W.J. Gallagher
Sales Manager... John A. Kok

Vice President.. G.J. Gallagher
Parts Manager... J.D. VanCleve
Service Mgr..... E.L. Erickson

BRANCH OFFICE

KalisPELL 55-3rd Ave. E.N. Howard Hurst PH: SK 6-5007

LINES HANDLED

American Tractor Eght. Co.
Athey Products Co.
Broderick & Bascom Rope Co.
Bucyrus-Erie Co.
Caterpillar Tractor Co.
Construction Machinery Co.
Electric Steel Foundry Co.
Florida Land Clearing (FLECO)
Gardner-Denver Co.
Gledhill Road Machinery Co.
Homestead Valve Mfg. Co.
Hyster Company
Kohler Sales Co.
Lyle Signs, Inc.

Martin Machinery Co.
Maxi Corporation
L.R. Murphy Scale Co.
Omaha Steel Works
Owen Bucket Co.
Pioneer Engineering Works
Rivinius, Inc.
Roscoe Manufacturing Co.
Stow Manufacturing Co.
Thermold Rubber Products
Ulrich Products Corp.
Washington Trak Loader
Whiteman Manufacturing Co.
Yuba Manufacturing Co.

TRACTOR & EQUIPMENT CO.....SIDNEY
201 N. Central PH: 3

Pres. & Mgr..... J.H. Harnish
Parts Manager... G.D. Robertson

VP & Sls. Mgr.... H.C. Hawk
Service Mgr..... G.D. Robertson

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Glasgow
Miles City

E. Hiway 2
S. 5th & Pacific

M.R. Otto
Jack Kelley

PH: AC 8-9309
PH: CE 2-4664

LINES HANDLED

Ateco
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Atlas Conveyor Co.
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Balderson Mfg. Co.
Be-Ge Manufacturing Co.
Broderick & Bascom Rope Co.
Caterpillar Tractor Co.
Fleco Corp.

Hyster Co.
Jaeger Machine Co.
Littleford Bros., Inc.
Martin Machine Co.
Minneapolis-Moline Co.
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Rome Plow Co.
Thew Shovel Co.
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251 W.Commercial PH: RE 8-3103

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Manager..... H.Anderson Sales Manager... S.W.Daly
Parts Manager... Marshall Sewell Service Mgr.....William Lage

BRANCH OFFICE

Las Vegas 3463 S.Highland Ray Jones PH: DU 4-0411

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Armco Drainage & Metal Prods. Mobil Sweeper
Chicago Pneumatic Tool Co. P & H
Colorado Fuel & Iron Corp. Peerless Pump
Electric Steel Foundry Pioneer Engineering
Food Mch. & Chemical Corp. Seaman-Andrew
Gar Wood Industries Thermold Western
Gates Rubber Co. Tractomotive Corp.
Goodyear Tire & Rubber Co. Victor Equipment Co.
Hancock Manufacturing Wickwire Wire Rope
Yardley Plastic Co.

CROOKS BROS. TRACTOR CO. (Branch)..... ELKO
435 S. Fifth Street PH: RE 8-3010

Manager..... L.J.Wilkerson

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D MACHINERY CO., INC. (Branch)..... LAS VEGAS
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Parts Manager... Don Jones Service Mgr.....Cliff Hendricks

SEE MAIN OFFICE LISTING UNDER ELKO

SHMAN EQUIPMENT CO...... LAS VEGAS
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Co-Owner..... Tona Cashman Mgr. & Sis.Mgr...Harold Nichols
Parts Manager... E.B.Austin Service Mgr.....John Hyndman

LINES HANDLED

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Caterpillar Tractor Co. Jaeger Machine Co.
Fleco Corp. John Deere Plow Co.
Thor Power Tool Co.

MARK COUNTY WHOLESALE MERCANTILE CO...... LAS VEGAS
12 S.Main Street PH: DU 4-0444

President..... F.L.Ronnow VP & Sis.Mgr... E.W.Arnold
Manager..... Geo.M.Boman Parts Manager... Stanley Brower
Service Mgr.....R.W.Mugleston

LINES HANDLED

Drott Manufacturing Co. International Harvester Co.
E.D.Ethnyre & Co. D.W.Onan & Sons
Fruehauf Trailer Co. Palmer Electric Mfg. Co.
Gallon Iron Works Co. Wain-Roy Corp.
Frank G.Hough Co. Wayne Manufacturing Co.
Witte Engine Works

SUPPLY LINES

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Alomite
B.K.Hydrovac and Kits
Black & Decker
Briggs & Stratton
Durkee Atwood V-Belts
Erie Pumps
Fram Filters-air, oil, fuel
and water
Gates Belts & Hose
Hastings Rings
Ingersoll-Rand Impact Tools

K.O.Lee Equipment
McQuay Norris Mfg. Co.
Oil Seals
"O" Rings
O.T.C. Tools
Proto Tools
Spicer
Velvetouch
Vises
Walker Jacks & Mufflers
Yankee Lights

LAND SERVICE & SUPPLY CORP...... LAS VEGAS
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Secy-Treas..... M.C.Christensen

(Continued in next column)

Inland Service & Supply Corp. (Cont'd)

LINES HANDLED

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Armstrong-Bray & Co. B.F.Goodrich Ind. Rubber Prods.
Bay State Abrasive Products Lincoln Electric Co.
Brunner & Lay, Inc. Malsbary Manufacturing Co.
Chicago Pneumatic Tool Co. Norton Company
Coffing Hoist Co. Porter-Cable Machine Co.
Consolidated Mch. & Supply Rockwell Manufacturing Co.
DeWalt, Inc. Simonds Saw & Steel
Dixon Valve & Coupling Co. Skill Corp.
Essick Manufacturing Co. Stanley Electric Tools
Robert G.Evans Co. Trojan Loadsters (Yale & Towne)
Whiteman Manufacturing Co.

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600 Glendale Road PH: EL 5-3281

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Office Mgr..... J.R.Farley Sales Prom.Mgr..C.John Charters
Parts Manager... Thos.E.Berg Service Mgr.....Robt.L.Rose

BRANCH OFFICE

Elko 435 S.Fifth St. L.J.Wilkerson PH: RE 8-3010

LINES HANDLED

Ateco Fleco Corp.
Athey Products Corp. Gurries Manufacturing Co.
Balderson, Inc. Hyster Company
Caterpillar Tractor Co. Omaha Steel Works
John Deere Plow Co. Preco, Inc.
E.H.Edwards Co. Towner Manufacturing Co.
Ulrich Products Corp.

GENERAL EQUIPMENT CO...... RENO
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LINES HANDLED

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South Bend Division Wausau Iron Works
Essick Manufacturing Co. Wayne Manufacturing Co.
Marmon Herrington Co., Inc. Westinghouse Air Brake Co.,
Mixermobile Manufacturing Co. LeRol Div.
White Motor Co.

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N.Wells at Fifth PH: FA 9-0456

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Sales Manager... N.L.Robertson Parts Manager... Joe Anxo
Service Mgr.....M.D.Dudley

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Baldwin-Lima-Hamilton Corp. Joy Manufacturing Co.
Ralph B.Carter Co. Koehring Co. of California
Central Engineering Co. Macwhyte Wire Rope Co.
Clark Equipment Co. (Michigan) Quaker Pioneer Rubber Co.
Clark's Welding Works Stanco Manufacturing Co.
Wylie Manufacturing Co.

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Pres. & Sis.Mgr..M.T.Vulch Vice President.. Emil Evasovic
Parts Manager... Laurence Hull Service Mgr.....C.G.Whittle

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Westinghouse Co. Fram Corporation
Aerol Products Co. Flexible Steel Lacing Co.
Bros Incorporated Gar-Bro Manufacturing Co.
Brunner & Lay, Inc. Hensley Equipment Co.
Burmeister Div., Chain LeTourneau-Westinghouse Co.
Belt Co. Star Wire Screen & Iron Works
Chicago Pneumatic Tool Co. U.S.Electrical Motors
Chain Belt Co. U.S.Rubber Co.
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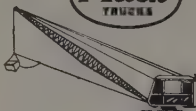


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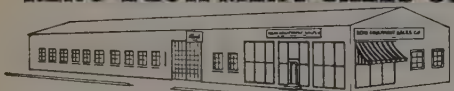


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Vice President.. Daniel S.Lane
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Buckeye Trenchers
Construction Machinery Co.
Gardner-Denver Co.
Gorman-Rupp Co.
Hendrix Manufacturing Co.
Hobbs Trailer Co.
Mack Trucks, Inc.

Madsen Hot Plants
Pacific Car & Foundry Co.
Schield-Bantam Co.
Seaman-Andwall Corp.
Shovel Supply Co.
Stanco Mfgs. & Sales, Inc.
Tractomotive Corp.
Union Wire Rope
Unit Crane & Shovel Corp.

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PH: FA 2-7750 (Night)

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Manager..... F.P.Meagher

Vice President.. Owen Vaught
Parts Manager... E.L.Meagher
Service Mgr..... Owen Vaught

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CEECO — Truseal
Construction Road Brooms
Contractors Pumps
Generator Plants
Insley Excavators & Cranes
LaCrosse Trailer Corp.
Lyle Street & Road Signs

Pettibone-Mulliken Motor
Graders & Shovel Loaders
Shovel Teeth
Schramm Air Compressors
SHOCO Grader Blades
Standard Steel Works
Wire Rope Cable
York Modern—Road Rakes

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North Valley Road

PH: FA 2-8621

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Ind.Sales Mgr.... O.Frank Stock
Parts Manager... George Miller

Manager..... R.V.Robertshaw
Truck Sls.Mgr.... Franklin Staute
Service Mgr..... Frank Fergoda

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Ames Alum. Irrigation Pipe
Ateco Rippers, Scrapers,
Dozers & Scarifiers
American Chain & Cable
Beebe Hand Winches
Be-Ge Earthmoving &
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Besler Sprayers (Bes-Kil)
Bolens Food Mch. & Chemicals
Braden Winches
Bucyrus-Erie Power Shovels—
Hydro Cranes
Campbell Cabs
Carco Winches
Coffing Hoists & Chain Binders
DeLaval Milking Equipment
Danuser Post Hole Diggers &
Scraper Blades
Drott Loaders, Log Grapples &
Four-in-One Bucket
Elgin Street & Garbage Eqpt.
Fruehauf Trailers
Gallon Graders, Rollers
Gates Belts, Hose
Holt Dozers & Rollers

Homelite Pumps & Generators
Hough Payloader
Hudson Stock Tanks & Sprayers
Hy-Lo Salamanders
Lite Bale Loaders
Larson Ladders
Louden Dairy Equipment
Marvin Landplane
Quincy Compressors
Ram Snow Plows—Sweepers
Ready Power Plants
Rodger Rippers
Selby Safety Tops for Crawlers
Smith Indian Fire Pumps
Teco Livestock Equipment
Universal Pumps
Viber Concrete Vibrator Eqpt.
Wagner Backhoes
Wain-Roy Backhoes
White Concrete & Asphalt Eqpt.
Wisconsin Engines
Whiteman Concrete Equipment
Worthington Air Compr. & Air Tool
Yuba Heavy Duty Earthmoving
Equipment

(SEE OUR AD ON OPPOSITE PAGE)

SIERRA MACHINERY CO., INC.....RENO

307 Morrill Avenue

PH: FA 3-1301

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Parts Manager... W.E.Burgess

VP & Manager... E.Kinzel
Service Mgr..... C.Ivan Ferrel

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Chrysler Corp.—Marine &
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Delco Div.—GMC
Detroit Diesel Eng.Div.—GMC
Drake-Williams-Mount Co.
Eagle Iron Works
Electric Machinery Mfg.Co.
Euclid Div.—GMC

M.P.McCaffrey, Inc.
Maxon Construction, Inc.
Mercury Manufacturing Co.
L.R.Murphy Scale Co.
Nordberg Manufacturing Co.
Northwest Engineering Co.
Overstrom & Sons
Owen Bucket Co.
Pettibone-Wood Mfg. Co.
Rosco Manufacturing Co.
Salyers Equipment Co.

(Continued on next page)

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Equitable Building, Portland

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Gledhill Road Machinery Co.
Highway Equipment Co., Inc.
Hy-Way Machinery, Inc.
Ingersoll-Rand Co.
Iowa Manufacturing Co.

Skagit Steel & Iron Works
Spears-Wells Machinery Co.
Transport Trailer Co.
Trojan Div.—Yale & Towne Mfg.
Willard Concrete Machinery Sales Co.

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Alemite Co.

LeBus Rotary Tool Works

Alleghany Steel Band Co.

Leschen Wire Rope Div.

American Hoist & Derrick Co.

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American Pulley Co.

Lubriplate Division

Ames, Harris, Neville Co.

McCaffrey-Ruddock Tagline Co.

Beebe Bros.

Marlow Pump Division

Bemis Bros. Bag Co.

Master Vibrator Co.

Bowser, Inc.

Mathews Conveyor Co.

Campbell Chain Co.

Miller Swivel Products, Inc.

Carborundum Co.

Mine Safety Appliance Co.

Clipper Belt Lacing Co.

Morse-Starrett Products

Coffing Hoists

Owatonna Tool Co.

Colorado Fuel & Iron Works

Reda Submergible Pumps

Consolidated Mch. & Supply

Reliance Electric & Engrg. Co.

Crosby-Laughlin Div.

Ridge Tool Co.

Henry Disston Div.

Rodgers Hydraulic, Inc.

Dixon Valve & Coupling Co.

Rotary Concrete Drill Co.

Duff-Norton Jacks

Sacoma Manufacturing Co.

Federated Metals Co.

Silent Glow Oil Burner Co.

Flexco Belt Fasteners

Skookum Co.

Flint Sand & Gravel Screens

Thor Electric Tools

Gar-Bro Manufacturing Co.

Tubbs Cordage Co.

B.F. Goodrich Co.

Union Fork & Hoe Co.

H & L Tooth Co.

Union Twist Drill Co.

Igloo Corporation

Upson Walton Co.

Jay Corp. Tampers

Western Fence & Wire Works

Johns-Manville Corp.

J.H. Williams Co.

Earle M. Jorgensen Co.

Wilton Tool Mfg. Co.

Kingwell Bros., Ltd.

Wisconsin Motor Corp.

Klein Logan Co.

Yost Manufacturing Co.

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CARCO Winches
WAIN-ROY Backhoes
RAM Snow Plows - Sweepers
UNIVERSAL Crushers, Rock Equip.

BRAND NAMES

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AMES Aluminum Irrigation Pipe
ATECO Rippers, Scrapers, Dozers and Scarifiers
AMERICAN Chain and Cable
BEEBE Hand Winches
BE-GE Earthmoving and Hydraulic Equipment
BESLER Sprayers (Bes-Kil)
BRADEN Winches
CAMPBELL All Weather Cabs for Equipment
COFFING Hoists and Chain Binders
DE LAVAL Milking Equipment
DANUSER Post Hole Diggers and Scraper Blades
ELGIN Street and Garbage Equipment
FRUEHAUF Trailers
GATES Belts - Hose
HOLT Dozers and Rollers
HOMELITE Pumps and Generators
HUDSON Stock Tanks and Sprayers

BRAND NAMES

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LITE Bale Loaders
LARSON Ladders
LOUDEN Dairy Equipment
MARVIN Landplane
QUINCY Compressors
READY Power Plants
RODGER Rippers
SELBY Safety Tops for Crawlers
SMITH INDIAN Fire Pumps
TECO Livestock Equipment
UNIVERSAL Pumps
VIBER Concrete Vibrator Equipment
WAGNER Backhoes
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WHITEMAN Concrete Equipment
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Parts Manager... Wayne Cole Service Mgr.....W.W.Hallbauer

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American Tractor Eqp. Co.	Madsen Works
Cleveland Trencher Co.	Prime Mover Co.
Diamond Iron Works	Quick-Way Truck Shovel Co.
Drott Manufacturing Co.	Ready Power Co.
Erie Strayer Co.	John A.Roebling's Sons Corp.
Gallon Iron Works & Mfg. Co.	Rogers Brothers Corp.
Goodall Rubber Co.	Superior Equipment Co.
Hendrix Manufacturing Co.	Thor Power Tool Co.
The Frank G.Hough Co.	Wain-Roy Corp.
International Harvester Co.	Wayne Manufacturing Co.
Jaeger Machine Co.	Winslow Govt.Std.Scale Works

CONSTRUCTION MACHINERY CO.....ALBUQUERQUE
1780 Menaul, N.E. PH: CH 7-0571

President..... H.E.Leonard Manager..... W.H.Evans
Operating Mgr.... L.G.McDonell Parts Manager... E.H.Haack

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J.I.Case Co.	Hetherington & Berner
Curtiss-Wright Corp.	Miller Spreader Corp.
Davey Compressor Co.	Miller-Smith Mfg. Co.
Gar Wood Industries	Pak-Mor Manufacturing Co.
Goodyear Rubber Ind. Div.	Rogers Iron Works
	Worthington Corp.

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707 Broadway PH: CH 3-3565

President..... John W.Schoen Manager..... D.Rakestraw, Jr.
Sales Manager... John W.Schoen Parts Manager... Sam McPherson
Service Mgr..... John A.Logan

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Westinghouse Co.	Hyway Machinery Co.
Aeroli Products Corp.	Ingersoll-Rand Co.
American Hoist & Derrick Co.	Kohler Co.
Barber-Greene Co.	LeTourneau-Westinghouse Co.
Blackwell Burner Co.	McCaffrey-Ruddock Tagline Corp.
Buck Equipment Corp.	Minneapolis-Moline Co.
Buda Co., Industrial Products	Sam Mulkey Co.
Buffalo Springfield Roller Co.	Noble Co.
Campbell Equipment Corp.	Owen Bucket Co.
Chain Belt Co.	P & H Shovels
Champion Manufacturing Co.	Ramset Manufacturing Co.
Consolidated Mch. & Supply	Smith Engineering Works
D-A Lubricant Co.	Warner & Swasey Co. (Gradall)
Electric Steel Foundry Co.	S.K.Wellman Co.
Gar-Bro Manufacturing Co.	Whiteman Manufacturing Co.
B.F.Goodrich Co.	Winslow Govt.Std.Scale Works
W.E.Grace Mfg. Co.	Wisconsin Motor Corp.
Gray Company	Wright Power Saw & Tool Corp.
H & L Tooth Co.	Yale & Towne (Trojan Loaders)

HARRY CORNELIUS CO.....ALBUQUERQUE
1510 Second Street, NW PH: CH 3-1776

President..... W.H.Cornelius Manager..... H.J.Anderson
Sales Manager... Neal Wiggins Parts Manager... W.F.Mexey
Service Mgr..... Otis Smith

(Continued in next column)

Harry Cornelius Co. (Cont'd)

LINES HANDLED

Alemite Co., Construction Machinery Division	Kwik-Mix Co.
Allis-Chalmers Mfg. Co.	Louis Allis Co.
Black & Decker Mfg. Co.	Mall Tool Co.
Boston Woven Hose & Rubber Bros., Inc.	Mall Tool Div., Remington Arms Corp.
Chisholm-Moore Hoist Div.	Murphy Scale Co.
Clyde Iron Works, Inc.	Owatonna Tool Co.
Colorado Fuel & Iron Corp.	Pacific Car & Foundry (Carco)
Diamond Chain Co.	The Parsons Co.
Dodge Manufacturing Co.	Pettibone-Wood Corp.
Duff-Norton Co.	Rosco Manufacturing Co.
Fafnir Bearing Co.	Schild Bantam Co.
Gorman-Rupp Co.	Timken Bearing Co.
C.S.Johnson Co.	Tractomotive Corp.
Joy Manufacturing Co.	Universal Engineering Corp.
Koehring Co.	Vibro Plus Products, Inc.
	Wilton Tool Mfg. Co.
	Winpower Mfg. Co.

CUMMINS RIO GRANDE SALES & SERVICE, INC...ALBUQUERQUE
1921 Broadway, N.E. PH: CH 7-1525

President..... A.S.Leonard VP & Mgr..... J.D.Dennedy
Parts Manager... Jim Fischel Service Mgr..... George Barre

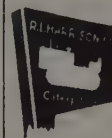
LINES HANDLED

Cummins Diesel Engines

EQUIPMENT SALES CO. (Branch).....ALBUQUERQUE
4121 Edith N.E. PH: DI 4-1124

Manager..... R.C.Baughman

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(SEE LISTING ON OPPOSITE PAGE)

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801 Fourth Street, N.W. PH: 7-8811

President..... R.L.Harrison VP & Sis.Mgr.... J.F.Harrison
 Manager..... D.A.DeRochie Parts Manager... J.T.May
 Service Mgr.....Carl Maynard

LINES HANDLED

American Chain & Cable Co. E.D.Etnyre & Co.
 Athey Products Corp. Gardner-Denver Co.
 Be-Ge Manufacturing Co. Hyster Company
 Bucyrus-Erie Co. Iowa Manufacturing Co.
 Caterpillar Tractor Co. T.L.Smith Co.
 Caslick Manufacturing Co. Standard Steel Works

(SEE OUR AD ON OPPOSITE PAGE)

T. JENKINS CO. (Branch)..... **ALBUQUERQUE**
630 - 2nd Street, N.W. PH: 3-2209

Manager..... G.W.Stroud

SEE MAIN LISTING UNDER LOS ANGELES, CALIFORNIA

VELY EQUIPMENT CO...... **ALBUQUERQUE**
601 Fourth Street, NW PH: DI 4-3411

President..... W.E.Lively Vice President.. Edna H.Lively
 Dir. of Sales..... W.E.Rice Manager..... D.Orton Smith
 Parts Manager... Lyle Stringham Service Mgr.....Chas.P.Jones

LINES HANDLED

Acme Iron Works Lamson & Sessions Co.
 Aeroquip Corp. Le Hi Hose Accessories Co.
 Alemite Co. Leschen Wire Rope Div.
 Blaw-Knox Co. LeROI Cleveland Co.
 Brunner & Lay M-B Corp.
 Cataphote Corp. Mixermobile Manufacturers
 Childers Manufacturing Co. (El Paso)
 Chrysler Corp. Murphy Diesel Co.
 Clipper Mfg. Co. (El Paso) Murphy Scale Co.
 Construction Machinery Co. Northwest Engineering Co.
 Detroit Diesel (Euclid Eqpt.) Pioneer Engineering Works
 Engine Life Products Corp. Quaker Rubber Co.
 Engineered Equipment Co. Rankin Manufacturing Co.
 Euclid Division-GMC Remington Arms (El Paso)
 Gaherty Mfg. Co. Silent Glow Oil Burner Co.
 Hendrix Mfg. Co. Tambo Manufacturing Co.
 Hensley Equipment Co. Toledo Pressed Steel Co.
 Idaho Sprocket & Mach. Works Western Rock Bit Co.
 Jackson Vibrators, Inc. Whitney Chain Co.
 Wisconsin Motor Co.

CAFFREY & WAY MATERIALS & SUPPLY CO., INC...... **ALBUQUERQUE**
107 Menaul, NE, PO Box 998 PH: DI 4-1681

President..... J.W.McCaffrey Secy-Treas..... John H.Way

LINES HANDLED

Ihambra Foundry Co. LeBus Brothers
 American Steel & Wire Div., Leyman Mfg. Co., McGowan
 U.S.Steel Co. Pump Div.
 Inkontite Products, Inc. McKissick Products Corp.
 Armstrong Bray & Co. Measure Rite, Inc.
 H.Baxter & Co. Miroflex Co., Inc.
 Colorado Fuel & Iron Corp. Mueller Co.
 Chicago Hdwe. & Fixture Co. Norris Fence Co.
 Dallas Foundry A.D.Radinsky & Sons
 Art Mfg. & Sales Co. Republic Rubber Div.,
 El Ray Tool Co. Lee Rubber & Tire Corp.
 E.Dietz & Co. Rockwell Mfg. Co.
 Ixon Valve & Coupling Co. Scheu Products Co.
 Ixoco Technical Products Smith-Blair, Inc.
 Ixolite Mfg. Co. W.J.Smith Wood Preserving Co.
 Io Pac Fibers, Inc. Sonneborn Brothers, Inc.
 Johns-Manville Sales Corp. Stratoflex, Inc.
 Joyce Cridland Corp. Syro Steel Co.
 Lincoln Engineering Co. Texas Tie & Timber Co.
 Trinity Valley Iron & Steel
 Westrac Co.

C. RIBBLE CO...... **ALBUQUERQUE**
104 - 4th Street, NW PH: CH 3-3733

Pres. & Mgr..... N.C.Ribble VP & Sis.Mgr.... Ira E.Ribble
 Parts Manager... T.C.Magee Service Mgr.....Clay Logsdon

(Continued in next column)

N. C. Ribble Co. (Cont'd)**LINES HANDLED**

Anthes Force Oil Co. Heltzel Steel Form & Iron Co.
 Armstrong-Bray & Co. Highway Equipment Co.
 Arrow Manufacturing Co. Hy-Way Machinery, Inc.
 Austin Western Works, Div. Jay Company
 Baldwin-Lima-Hamilton Corp. Kansas City Hay Press Co.
 Baldwin-Lima-Hamilton Corp., Kinney Spring Steel Broom Co.
 Shovel Division LaCrosse Trailer Corp.
 Browning Manufacturing Co. Mallory Logging Equipment Co.
 Brunner & Lay & Affiliates Murphy Scale Co.
 Campbell Chain Co. Ottawa Steel Corp.
 Car-Anth Mfg. & Supply Co. Oliver Corp.
 Carpenter Manufacturing Co. Pacific Car & Foundry Co.
 C. H. & E. Manufacturing Co. Pell Cable Cutter Co.
 Chicago Pneumatic Tool Co. Quincy Compressor Co.
 Clark Equipment Co. Raybestos-Manhattan, Inc.
 Colorado Fuel & Iron Corp. Sauerman Bros., Inc.
 Concrete Surfacing Mach. Co. Screen Equipment Co., Inc.
 Concut Sales, Inc. Seaman-Gunnison Corp.
 Continental Motors Corp. Standard Steel Corp.
 Crane Carrier Corp. Syntrol Co.
 Eagle Iron Works Templeton, Kenly & Co.
 Gilson Brothers Co. Union Wire Rope Corp.
 Gledhill Road Mch. Co., Inc. Whiteman Manufacturing Co.
 Griffin Wellpoint Corp. Winslow Govt.Std.Scale Works
 Yaun Manufacturing Co., Inc.

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 Parts Manager... K.S.Couse Service Mgr.....Jim Sullivan

LINES HANDLED

American Coleman Co. McCabe-Powers Auto Body Co.
 Anthony Co. Mico Brake Products
 Austin Trailer Equipment Co. Miller Trailer Co.
 Chelsea Products, Inc. Minnesota Automotive, Inc.
 F.A.B. Manufacturing Co. Pitman Manufacturing Co.
 Heil Company Prior Products, Inc.
 Holmes-Owen Loaders Ramsey Winch Mfg. Co.
 Johnson Implement Co. Spicer Manufacturing Co.
 Leland Equipment Co. Sun Electric Corp.
 Lincoln Engineering Co. Wagner Electric Corp.
 H.S.Watson Co.

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 Carlsbad Highway PH: SH 6-2604

Manager..... Roy Green

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J. D. COGGINS CO. (Branch).....FARMINGTON
 2632 E. Main Street PH: DA 5-3523

Manager..... J.D.Coggins, Jr.

SEE MAIN OFFICE LISTING UNDER ALBUQUERQUE

SMITH MACHINERY CO., INC. (Branch).....LOVINGTON
 901 S. Main Street PH: 2741

Manager..... H.M.Marshall

SEE MAIN OFFICE LISTING UNDER ROSWELL

SMITH MACHINERY CO., INC.ROSWELL
 512 E. Second Street PH: MA 2-1812

President..... Clifford Smith Vice President.. Jerry N.Smith
 Secy-Treas..... C.Schrimsher Parts Manager... R.V.Short

BRANCH OFFICES

Artesia	Carlsbad Hwy.	Roy Green	PH: SH 6-2604
Lovington	901 S.Main St.	H.M.Marshall	PH: 2741

LINES HANDLED

Allis-Chalmers Mfg. Co.	Peerless Pump Div.
Berkeley Pump Co.	Reda Pump Co.
Chrysler Corp., Marine &	Rockwell Mfg. Co.
Industrial Engine Div.	U.S.Electrical Motors, Inc.
Eversman Manufacturing Co.	West Coast Sales & Service Co.
Gar Wood Industries, Inc.	Western Land Roller Co.
General Electric Co.	Wire Rope Corp. of America
Gruendler Crusher & Pulv. Co.	Wisconsin Motor Corp.
	Worthington Corporation

OREGON

EMPIRE MACHINERY CO. (Branch).....ARLINGTON
 PH: 280

Manager..... Verne Arstall

SEE MAIN OFFICE LISTING UNDER PENDLETON

HALTON TRACTOR CO. (Branch).....ASTORIA
 Youngs River Loop Road PH: FA 5-4621

Manager..... Ray Wilkey

SEE MAIN OFFICE LISTING UNDER PORTLAND

EMPIRE MACHINERY CO. (Branch).....ATHENA
 PH: 171

Manager..... Wallace Harrison

SEE MAIN OFFICE LISTING UNDER PENDLETON

INLAND MACHINERY CO. (Branch).....BAKER
 2425 Valley Avenue PH: JA 3-5366

Manager..... Vern Martin

SEE MAIN OFFICE LISTING UNDER LA GRANDE

MOTY & VAN DYKE, INC. (Branch).....BEND
 PH: EV 2-4922

Manager..... G. Bjvorick

SEE MAIN OFFICE LISTING UNDER KLAMATH FALLS

ILLINOIS VALLEY HARDWARE.....CAVE JUNCTION
 P.O. Box E PH: 1-6201

Partner..... E.F.Hamilton Manager..... K.C.Hamilton

(Continued in next column)

Illinois Valley Hardware (Cont'd)

LINES HANDLED

Berkeley Pump Co.	Link-Belt Co.
Crane Company	Mallory Logging Equipment Co.
E.LduPont Explosives	P & C Hand Forged Tool Co.
Electric Steel Foundry	The Skookum Co.
W.P.Fuller & Co.	Tokheim Oil Tank & Pump Co.
R.Hoe & Co.	Union Wire Rope Corp.
	Wisconsin Motor Corp.

HOWARD-COOPER CORP. (Branch).....CENTRAL POINT
 Highway 99, Box 667 PH: NO 4-1251

Manager..... Wayne Robertson

SEE MAIN OFFICE LISTING UNDER PORTLAND

HOWARD-COOPER CORP. (Branch).....COQUILLE
 Highway 101, Box 1 PH: 5231

Manager..... Robert B.McLean

SEE MAIN OFFICE LISTING UNDER PORTLAND

INLAND MACHINERY CO. (Branch).....ENTERPRISE
 E. 1st and Greenwood PH: 2071

Manager..... R.H.Carey

SEE MAIN OFFICE LISTING UNDER LA GRANDE

AIR-MAC, INC. (Branch).....EUGENE
 1942 W. 11th Street PH: DI 3-2931

Manager..... R.W.Keith

SEE MAIN OFFICE LISTING UNDER SEATTLE, WASHINGTON

AIR-MAC, INC. OF OREGON (Branch).....EUGENE
 P.O.Box 652 PH: DI 5-2713

Resident Sales Manager..... Bob Keith

SEE MAIN OFFICE LISTING UNDER PORTLAND

BALZER MACHINERY CO. (Branch).....EUGENE
 355 Crescent Lane PH: DI 5-4473

Representative.. Earle C.Tullar

SEE MAIN OFFICE LISTING UNDER PORTLAND

CRAMER MACHINERY CO. (Branch).....EUGENE
 1830 W. 7th Avenue PH: DI 3-1411

Manager..... Rollin A.Deck

SEE MAIN OFFICE LISTING UNDER PORTLAND

CUMMINS DIESEL SALES OF OREGON, INC. (Branch).....EUGENE
 731 Garfield Street PH: DI 4-2257

Manager..... E.G.Bartlow

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HOWARD-COOPER CORP. (Branch).....EUGENE
 1175 Pacific Highway PH: DI 4-4268

Manager..... Ralph McKernan

SEE MAIN OFFICE LISTING UNDER PORTLAND

INTERSTATE TRACTOR & EQUIPMENT CO. (Branch).....EUGENE
 1041 Highway 99 N., P.O.Box 192 PH: DI 4-4247

Manager..... L.K.Nosler

SEE MAIN OFFICE LISTING UNDER PORTLAND

LOGGERS & CONTRACTORS MACHINERY CO. (Branch).....EUGENE
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Manager..... R.H.MacLauchlan

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 Northern Life Tower, Seattle Equitable Building, Portland

EMPIRE MACHINERY CO. (Branch).....HEPPNER
 PH: 6-9112
 Manager..... John Williams

SEE MAIN OFFICE LISTING UNDER PENDLETON

LAND MACHINERY CO. (Branch).....JOHN DAY
 PH: 343
 Manager..... Terry Tuttle

SEE MAIN OFFICE LISTING UNDER LA GRANDE

MOTY & VAN DYKE, INC. (Branch).....JOHN DAY
 PH: 301
 Manager..... J. Magee

SEE MAIN OFFICE LISTING UNDER KLAMATH FALLS

CRATER LAKE MACHINERY CO.....KLAMATH FALLS
 1410 S. 6th Street PH: TU 2-2544

President..... Stanley Miller Vice President.. G.C.Lorenz
 Sales Manager... R.R.Larson Parts Manager... Sam Jones

BRANCH OFFICES

Medford "Crock" Hunter Manager PH: SP 2-6207
 Redmond "Easy" Robin Manager PH: LI 8-2154

LINES HANDLED

Athey Products Corp. Fleco Corp.
 Caterpillar Tractor Co. Hyster Co.

MOTY & VAN DYKE, INC.....KLAMATH FALLS
 630 Klamath Avenue PH: TU 4-4141

President..... K.M.Moty Vice President.. N.W.Moty
 Sales Manager... A.W.Brink Manager..... L.A.Case

BRANCH OFFICES

Alturas (Calif.)	C. Evans	Manager	PH: 7301
Arcata (Calif.)	Don Perry	"	PH: Van Dyke 2-3681
Bend	G.Bjorvick	"	PH: EV 2-4922
John Day	J.Magee	"	PH: 301
Lakeview	R. Stephens	"	PH: WH 7-2273
Lebanon	L.Schmidt	"	PH: AL 8-3171
Prineville	P.Mickel	"	PH: HI 7-6275
Redding (Calif.)	F.F.Dickey	"	PH: CH 3-3534

LINES HANDLED

Alemite Company	Electric Steel Foundry
American Chain & Cable Co.	Ingersoll-Rand Co.
Atkins Saw Div., Borg Warner	Johns-Manville
Barnes Manufacturing Co.	Peterbilt Motors
Black & Decker Mfg. Co.	Plomb Tool Co.
Blackhawk Manufacturing Co.	SKF Industries, Inc.
Broderick & Bascom Rope Co.	Spicer Manufacturing Co.
DeVilbiss Manufacturing Co.	Timken Detroit Axle Co.
Dodge Manufacturing Co.	Timken Roller Bearing Co.
	U.S.Rubber Co.

LAND MACHINERY CO.....LA GRANDE
 212 Greenwood PH: WO 3-3101

President & Mgr.Robt.R.Carey Vice President.. A.C.Lighthall
 Sales Manager... W.Ned Jones Service Mgr.....Orval Trump
 Parts Manager... M.L.Cunningham

BRANCH OFFICES

Baker	2425 Valley Ave.	Vern Martin	PH: JA 3-5366
Enterprise	E.1st & Greenwood	R.H.Carey	PH: 2071
John Day	Manager	Terry Tuttle	PH: 343

LINES HANDLED

Athey Products Corp.	John Deere Plow Co.
Caterpillar Tractor Co.	Martin Machine Co.
E.H.Edwards Co.	Preco, Inc.
Fleco Corp.	Skagit Steel & Iron Works
Hyster Company	Ulrich Products Corp.
	Young Iron Works

MOTY & VAN DYKE, INC. (Branch).....LAKEVIEW
 PH: WH 7-2273
 Manager..... R.Stephens

SEE MAIN OFFICE LISTING UNDER KLAMATH FALLS

MOTY & VAN DYKE, INC. (Branch).....LEBANON
 PH: AL 8-3171
 Manager..... L.Schmidt

SEE MAIN OFFICE LISTING UNDER KLAMATH FALLS

CAL-ORE MACHINERY CO., INC.....MEDFORD
 1105 Court Street PH: SP 3-4507

Pres. & Mgr..... John M.Garner Vice President.. Walter G.Garner
 Sales Manager... John M.Garner Parts Manager... W.F.Wheat
 Service Mgr.....H.L.Drews

LINES HANDLED

American Rubber Mfg. Co.	Hendrix Manufacturing Co.
Armstrong Manufacturing Co.	Hensley Equipment Co., Inc.
Atkins Saw Div., Borg Warner Corp.	Kohler Company
Browning Manufacturing Co.	Malsbary Manufacturing Co.
Brunner & Lay, Inc.	Murphy Diesel Co.
J.I.Case Co., Industrial Div.	Northwest Engineering Co.
Chicago Pneumatic Tool Co.	Pacific Powder Co.
Collins Company	Schield-Bantam Co.
Colorado Fuel & Iron Corp.	Shaw-O-Disc Mfg. Co.
Columbia-Geneva Steel Div., U.S.Steel Corp.	Skookum Company
Diamond Iron Works	Thor Power Tool Co.
Double J Breaker Co.	Trac Machinery Corp.
Electric Steel Foundry Co.	H.S.Watson Co.
Essick Manufacturing Co.	Westinghouse Air Brake Co.--LeRoi Division
Fairbanks-Morse Co.	Westinghouse Electric Corp.
Fuller Manufacturing Co.	Willard Concrete Mixers
Galland Henning Mfg. Co.	Wyle Manufacturing Co.
Gilson Brothers Co.	X-Ray Diamond Core Drills

CRATER LAKE MACHINERY CO. (Branch).....MEDFORD
 PH: SP 2-6207
 Manager..... "Crock" Hunter

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CUMMINS DIESEL SALES OF OREGON, INC. (Branch)....MEDFORD
 909 McAndrews Road E. PH: SP 2-9702

Vice President.. Don Jones Manager..... Mel Ward

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HAUPERT TRACTOR CO.....MEDFORD
 3610 N.Pacific Highway PH: SP 3-5383

Pres. & Mgr..... G.T.Hauptert Vice President.. C.B.Hauptert
 Sales Manager... S.B.Milne Service Mgr.....Herman Newland
 Parts Manager... Lyle Heidemann

LINES HANDLED

Aeroquip Corp.	GMC Truck & Coach Div.
Allis-Chalmers Mfg. Co.	Isaacson Iron Works
American Bosch Corp.	Pacific Car & Foundry Co.
American Tractor Eqpt. Co.	White Freightliner
Autocar	White Motor Co.
Gar Wood Industries, Inc.	Wire Rope Corp. of America

EMPIRE MACHINERY CO. (Branch).....MORO
 PH: JO 5-3616
 Manager..... Clifford Holdman

SEE MAIN OFFICE LISTING UNDER PENDLETON

WESTERN EQUIPMENT CO. (Branch).....ONTARIO
 29 S.E. 1st Street PH: 652

Manager..... B.B.Chisholm, Jr.

SEE MAIN OFFICE LISTING UNDER BOISE, IDAHO

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Manager..... Don Tillotson

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Sales Manager - Pendleton Store..... H.S. Clarke
General Parts & Service Manager..... R.A. Livermore

BRANCH OFFICES

Arlington	Verne Arstall	Manager	PH: 280
Athena	W. Harrison	"	PH: 171
Heppner	John Williams	"	PH: 6-9112
Moro	C. Holdman	"	PH: JO 5-3616
The Dalles	E.R. Strahm	"	PH: CY 6-2156

LINES HANDLED

Athey Products Co.	John Deere Plow Co.
Broderick & Bascom Wire Rope	Preco Company
Bros Incorporated	Skagit Steel & Iron Works
Caterpillar Tractor Co.	Timken Rock Bits
Fleco Corp.	Ulrich Machine Co.
Hyster Company	Young Iron Works

ACTIVE EQUIPMENT CO.....PORTLAND
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LINES HANDLED

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Columbia Industrial Services (rippers and cutting edges)	E.A. Rogers Co. (rippers)
	Tri-State Tractor Parts Co.
	Used tractors, shovels and logging equipment

AIR-MAC, INC. (Branch).....PORTLAND
1111 S.E. Grand PH: BE 4-6524

Manager..... Jack Emahiser

SEE MAIN OFFICE LISTING UNDER SEATTLE, WASHINGTON

AIR-MAC, INC. OF OREGON.....PORTLAND
1111 S.E. Grand Avenue PH: BE 4-6524

President..... S.B. McDonald Vice President.. T.J. Bannon
Manager..... J.W. Emahiser Parts Manager... Phil Wolfe

RESIDENT SALES MANAGER

Eugene Bob Keith P.O.Box 652

LINES HANDLED

American Engineering Co.	Magline, Inc.
Aeroll Co., Inc.	Moellenbrock & Wilke
American Metal Products	Northfield Iron Works
American Pulley Co.	Northwest Equipment Co.
Big Joe Manufacturing Co.	Parker Sweeper Co.
Breuer Electric Mfg. Co.	Rapids Standard Co.
Coles Cranes	Raymond Corp.
Conveyor Co.	R & K Industrial Products
Dutro Co.	Schoelkopf Mfg. Co.
Frick Gallagher Mfg. Co.	Towmotor Corp.
Gerlinger Carrier Co.	Valley Evaporating Co.
Harnischfeger Corp.	Westinghouse Compressors
Honeyman Mfg. Co.	Willard Concrete Machinery Co.
	Yeats Appliance Dolly Co.

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Manager..... C.N. Petersen

SEE LISTING UNDER NELSON EQUIPMENT CO., PORTLAND

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Foot of S.W. Gibbs Street PH: CA 2-4201

President..... W.D. Andrews Mgr. & Sls. Mgr... E.D. Shuman
Rental Mgr..... W.J. Easley Parts Manager... J.A. Wright
Service Mgr..... W.J. Easley

LINES HANDLED

Aeroll Products Co.	Lacar Enterprises
Andrews Drill Steel & Access.	Liner Concrete Machinery Co.
California Heater Co.	Marine Products Co.

(Continued in next column)

Andrews & Andrews Equipment (Cont'd)

Campbell Equipment Co.	Morgen Manufacturing Co.
Champion Concrete Saws & Blades	New England Carbide Tool Co.
Champion Pneumatic Mch. Co.	Page Engineering Co.
Champion Heater Co.	J.D. Polis Mfg. Co.
Dixon Valve & Coupling Co.	Quick Steam Cleaners
Duff-Norton Mfg. Co.	Thor Power Tool Co.
Electric Steel Foundry	Timken Roller Bearing Co. (Bits)
Gates Rubber Co.	Vibro-Plus Products Co.
Gladden Manufacturing Co.	Whiteman Manufacturing Co.
Gorman-Rupp Pump Co.	Winchager Corp.
Jos. F. Kiesler Co.	Winslow Govt. Scales Co.
Knickerbocker Products Co.	Worthington Parts & Repairs

BALZER MACHINERY CO.....PORTLAND
2136 S.E. 8th Avenue PH: BE 2-2141

Manager..... John M. Allen Business Mgr.... Harry Shuler
Sales Manager... Patton Niles Parts Manager... C.N. Holter
Service Mgr..... Fred Rommel

REPRESENTATIVE

Eugene 355 Crescent Lane Earle C. Tullar PH: DI 5-4473

LINES HANDLED

Cleveland Rock Drill Plant,	Murphy Diesel Co.
Westinghouse Air Brake Co.	Nordberg Manufacturing Co.
Eagle Iron Works	Northwest Engineering Co.
Essick Manufacturing Co.	Ohio Locomotive Crane Co.
Iowa Manufacturing Co.	Pacific Wire Rope Co.
LeROI Div., Westinghouse	Seaman-Andwall Corp.
Air Brake Co.	Thermoid Co.
M.P. McCaffrey, Inc.	Universal Motor Co.
	Vulcan Iron Works

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- Helser Conveyors & Bunkers
- Kolman Portable Conveyors and Screens
- Le Roi Air Compressors, Tractairs, Mobil Drills
- M. P. McCaffrey Clamshell and Dragline Buckets
- McCaffrey-Ruddock Taglines
- Murphy Diesel Engines
- L. R. Murphy Truck Scales
- Northwest Shovels & Cranes
- Ohio Locomotive Cranes
- Pacific Wire Rope
- Seaman-Andwall Road Stabilizing Equipment
- Symons Cone Crushers
- Vulcan Pile Driving

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BELmont 2-2141 Portland 14, Ore.

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2344 N.W. 21st Avenue PH: CA 2-9377

Manager..... Ted Cowling

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Beebe Hoists	Joy Compressors & Rock Drills
Broderick & Bascom Rope	Marlow Pumps
Birdsboro Jaw Crushers	McCaffrey Tag Lines, Reels
Bucyrus Erie Shovels & Cranes	Noble Concrete Batching Plants
Chausse Tar Kettles	Owen Clamshell Buckets
Clyde Hoists & Derricks	Quincy Compressors
Dixie Dredge	

Salem Tool Co.
 Sauerman Scrapers
 Smith Concrete & Truck Mixers
 Snogo Rotary Snow Plows
 Telsmith Crushers and Screens
 Trojan Loaders—Yale & Towne
 Western Screen Cloth

SALES	RENTALS	SERVICE
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Clyde Equipment Co.

1631 N.W. Thurman St.

Capitol 7-5561 Portland, Oregon

CYDE EQUIPMENT CO.	PORTLAND
631 N.W. Thurman Street	PH: CA 7-5561

President..... Oscar Bjorge	Vice President... W.H. Booth
Sales Manager... W.T. Euster	Parts Manager... Chet Schenck
	Service Mgr..... Frank L. Kline

BRANCH OFFICE

Seattle (Wash.) 3410—1st Ave. So. W.H. Booth PH: MA 2-1235

LINES HANDLED

Air-Way Pump & Eqpt. Co.	Noble Company
Beebe Brothers	Owen Bucket Co.
Broderick & Bascom Rope	Quincy Compressor Co.
Bucyrus-Erie Co.	Salem Tool Co.
Chausse Mfg. Co., Inc.	Sauerman Bros., Inc.
Clyde Iron Works, Inc.	Shovel Supply Co.
Concrete Surfacing Mch. Co.	T.L. Smith Co.
Dixie Dredge	Smith Engineering Works
Duff-Norton Mfg. Co.	Tanner Tank Co.
Endlan, Inc.	Templeton, Kenly & Co.
oy Manufacturing Co.	Thurman Machine Co.
auer Manufacturing Co.	Toledo Pressed Steel Co.
Marlow Pumps	Trojan Tractor Shovels
McCaffrey Ruddock Tagline Co.	(Yale & Towne)
urphy Scale Co.	Western Fence & Wire Works
	Winslow Govt. Std. Scale Works

COLUMBIA EQUIPMENT CO.	PORTLAND
140 S.E. 12th Avenue	PH: BE 2-7147

President..... F.L. Jerome, Jr.	Executive VP.... Jim Wahoske
Rec. Assist..... Al Padur	Sales Manager... Jim Wahoske
Parts Manager... Hugh Munro	Service Mgr..... John Moore

BRANCH OFFICES

Seattle	5030—1st Ave. So.	Charles Kerr	PH: PA 3-1529
okane	N. 1007 Freya St.	Paul Williams	PH: KE 4-1581

LINES HANDLED

bin Manufacturing Co.	Murphy Scale Co.
ustin-Western Works	Parsons Company

(Continued in next column)

Columbia Equipment Co. (Cont'd)

Baldwin-Lima-Hamilton Corp.	Petroleum Heating Co.
Barber-Greene Co.	Quick-Way Truck Shovel Co.
Cataphote Corp.	Rolcor Industries
W.L. Childers	Root Spring Scraper Co.
Cleaver-Brooks Co.	Rosco Manufacturing Co.
Electric Steel Foundry	Safety Traffic Cone Corp.
Flexible Road Joint Mch. Co.	Shovel Supply Co.
Heltzel Steel Form & Iron Co.	Simplicity Engineering Co.
Hy-Way Machinery Co.	Sutherland Machine Works
C.S. Johnson	Tractor Spreader Co.
Koehring Company	Traffic Safety Supply
Koehring Co. of Calif.	Traylor Eng. & Mfg. Co.
Kwik-Mix Co.	Union Wire Rope
Lug-All Co.	Warner & Swasey Co.
Miller Spreader Corp.	Warner & Swasey Hopto
Mixermobile Mfg. Co.	Winslow Govt. Std. Scale Works

COLUMBIA TRACTOR & IMPLEMENT CO.	PORTLAND
2720 N.W. 29th Street	PH: CA 7-0586

General Mgr..... L.C. Lachance	Gen. Sales Mgr... Murray McBride
Ind. Sales Mgr.... Bob Blackwell	Adv. Mgr..... Jerry L. Fuller
Parts Manager... J. DeMeerleer	Service Mgr..... Wm. Barngrover

BRANCH OFFICE

Billings (Mont.) 3907 First Ave. So. Loyal Mann PH: 9-5581

LINES HANDLED

Ford Gas Tractors	Ford Implements & Equipment
Ford Diesel Tractors	Ford Industrial Engines &
Fordson Major Diesel Tractors	Power Units

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2727 S.E. Union Avenue, P.O. Box 2191	PH: BE 5-4131

Pres. & Sls. Mgr.. O.C. Jessup	VP & Manager... Robt. D. Vial
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LINES HANDLED

Acme Iron Works	Hetherington & Berner, Inc.
Barco Manufacturing Co.	Knickerbocker Products Co.
Blaw-Knox Co.	Mall Tool Co.
The Burch Corp.	Mobil Sweeper Division
Champion Mfg. Co.	L.R. Murphy Scale Co.
The Charles Machine Works	Oshkosh Motor Truck, Inc.
Clayton Manufacturing Co.	Porter-Cable Machine Co.
Comet Equipment Co.	Quincy Compressor Co.
Consolidated Mch. & Supply	Rodgers Hydraulic, Inc.
Dotmar Industries, Inc.	Ruger Equipment Co.
Eastern Metal of Elmira, Inc.	Screen Equipment Co.
W.E. Grace Mfg. Co.	Straub Mfg. Co., Inc.

CRAMER MACHINERY CO.	PORTLAND
1140 S.E. 7th	PH: BE 2-0156

Manager..... George Groom	Sales Manager... A.B. Bruschke
Parts Manager... John Mills	Service Mgr..... Herbert Bryan

BRANCH OFFICE

Eugene 1830 W. 7th Ave. Rollin A. Deck PH: DI 3-1411

LINES HANDLED

Aeroll Products Co., Inc.	C.S. Johnson Co.
L.A. Bellingar Co.	Koffler Sales Corp.
Branford Co.	Leach Company
Buffalo-Springfield Roller Co.	Lite Weight Tool & Mfg. Co.
Chem-Therm Mfg. Co.	E.J. Longyear Co.
Clark Equipment Co.	McKiernan-Terry Corp.
Clayton Manufacturing Co.	Madsen Works
Cook Bros. Equipment Co.	Maxon Construction Co., Inc.
Concut Sales, Inc.	Midland Products Co.
Egin Sweeper Co.	L.R. Murphy Scale Co.
Essick Manufacturing Co.	Silent Glow Oil Burner Corp.
Gar Wood Industries, Inc.	Stanco Mfg. & Sales Co.
Hy-Way Heat Systems, Inc.	Wilshire Power Sweeper Co.
Industrial Chemical Co.	Wright Power Saw & Tool Corp.

(SEE OUR AD ON NEXT PAGE)

CUMMINS DIESEL SALES OF OREGON, INC.	PORTLAND
2257 N.W. Vaughn Street	PH: CA 6-3011

President..... R.H. Willis	Manager..... J.S. Poulson
Parts Manager... C.H. Ricketts	Service Mgr..... H.A. Durr

(Continued on next page)

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Pendleton	1403 SW Dorion	Don Tillotson	PH: CR 6-2891

SALES & SERVICE REPRESENTATIVES

Grants Pass	427 SW Westholm	Murray Perry	PH: GR 6-5111
Medford	600 Carrington	Don Jones	PH: SP 3-4831

LINES HANDLED

Cummins Diesel Engines Sales and Service

FEENAUGHTY MACHINERY CO.....PORTLAND

112 S.E. Belmont Street PH: BE 2-2186

President.....D.J.Feenaughty	Vice President..M.B.Mack
Secretary.....G.A.Richardson	Asst.Sales Mgr..L.G.Heinrich
Parts Manager...W.J.Ziegler	Service Mgr.....L.A.Bilyeu

BRANCH OFFICES

Boise (Ida.)	600 Front St.	T.Bockstruck	PH: 2-4579
Seattle	1028-6th Ave.So.	G.W.Farrar	PH: MA 3-7808
Spokane	N.715 Division St.	T.Bockstruck	PH: FA 5-2514

LINES HANDLED

Baldwin-Lima-Hamilton Corp.	Nelson Iron Works, Inc.
Bay City Shovels, Inc.	Page Engineering Works, Inc.
Construction Machinery Co.	Pioneer Engineering Works
Engineered Equipment, Inc.	Sargent Engineering Co.
Four Wheel Drive Auto Co.	Shovel Supply Co.
Hendrix Manufacturing Co.	Shunk Manufacturing Co.
Highway Equipment Co.	Thor Power Tools
Huber-Warco Co.	Transport Trailers, Inc.
Jos.F.Kiesler Co.	Tri-Line Co.
Littleford Bros., Inc.	Wausau Iron Works
L.R.Murphy Scale Co.	Wayne Manufacturing Co.
	Winslow Govt.Std.Scale Works

GUTHRIE MACHINERY CO.....PORTLAND

5816 N.E. Lombard Street PH: AT 2-7761

Owner & Mgr.....C.J.Guthrie	Office Mgr.....B.J.Guthrie
	Parts Manager...C.Noonan

LINES HANDLED

Aeroli Products Co., Inc.	L.R.Murphy Scale Co.
American Push Broom Co.	Orton Crane & Shovel Co.
Asphalt Equipment Co.	Over-Lowe Co.
Brunner & Lay Products	Seaman-Gunnison Co.
Calweld Manufacturing Co.	Shunk Manufacturing Co.
Clary Manufacturing Co.	Standard Steel Corp.
Concut Sales, Inc.	Trac Machinery Corp.
Edw.F.Taylor Co. (Snowblast)	Walter Motor Truck Co.
W.G.Mauch Co.	Western Wire & Fence Co.
Monatco Manufacturing Co.	Willard Concrete Machinery Co.

HALTON TRACTOR CO.....PORTLAND

2439 N.W. 29th Avenue PH: CA 6-3511

President.....E.H.Halton,Sr.	Vice President..E.H.Halton,Jr.
Portland Sales Manager.....Byrle H.Hunter	
General Sales & Service Manager.....W.J.Mordini	
General Parts Manager.....H.J.Stukey	

BRANCH OFFICES

Astoria	Youngs River Loop Rd.	Ray Wilkey	PH: FA 5-4621
Salem	2355 Silverton Rd.	L.E.Whealy	PH: EM 2-4161
Longview	1205 Baltimore St.	G.Carruthers	PH: HA 3-5760

LINES HANDLED

American Tractor Eqpt. Co.	Martin Machine Co.
Athey Products Corp.	Preco, Inc.
Caterpillar Tractor Co.	Rivinius, Inc.
Edwards Wire Rope	Skagit Steel & Iron Works
Fleco Corp.	Southwest Welding & Mfg. Co.
Hyster Co.	Ulrich Products Corp.

CRAMER

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Michigan Tractor Shovels, Loaders, ScrapersMADSEN IRON WORKS, INC.
Asphalt Paving Plants and EquipmentCOOK BROS. EQUIP. CO.
Challenge Mixers and Stabilift TrailersBUFFALO-SPRINGFIELD ROLLER CO.
Road RollersC. S. JOHNSON CO.
Weigh Batches, Bins and BucketsELGIN CORPORATION
Sweepers, Garbage Bodies, EducatorsMIDLAND PRODUCTS CO.
Power RollersBROWN MANUFACTURING CO., INC.
Bus Brown TrencherL. R. MURPHY SCALE CO.
Truck ScalesAEROIL BURNER CO.
Asphalt KettlesMCKIERNAN-TERRY CORP.
Pile HammersGAR WOOD INDUSTRIES, INC.
Buckeye DitchersWRIGHT POWER SAW & TOOL CORP.
Precision Air and Gas SawsWILSHIRE POWER SWEEPER CO.
Industrial SweepersCLAYTON MANUFACTURING CO.
Steam Generators, Space Heaters1140 S. E. 7th Ave.
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Parts Manager... Edw.B.Mitchell Service Mgr.... Howard Wilcox

LINES HANDLED

Aeroquip Corp.	Clark Equipment Co.—
Allis-Chalmers Mfg.Co. (Engines)	Transmission Div.
Allis-Chalmers Mfg.Co.	Schramm, Inc. (Air Compressors)
(Lift Trucks)	Torque Converter repairs
American Hoist & Derrick Co.	Twin Disc Clutches
American Marc, Inc.	24-hour parts and service

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Asst.Sls.Mgr.... Don C.Wilson	Production Mgr.. S.J.Rogers
Sls.Coordinator.. M.W.Lawton	Parts Manager... O.C.Janssen
	Service Mgr..... W.W.Foss

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Eugene	1175 Pac. Hwy.	R.McKernan	PH: DI 4-4268
Eureka	Hwy. 101 N.	Willard Bona	PH: HI 2-6477
Redding	Hwy. 99 N.	John Faulkner	PH: CR 5-1558
Roseburg	1673-2nd Ave.	Kenny Swain	PH: OR 3-5506
Seattle	5055-4th S.	M.R.Aitken	PH: PA 5-1744

LINES HANDLED

Allied Tractor Eqpt. Co.	International Harvester Co.
American Tractor & Eqpt. Co.	Link-Belt Speeder Corp.
Berger Engineering Co.	Pacific Car & Foundry Co.
Drott Manufacturing Co.	Page Engineering Co.
E.D.Etnyre & Co.	Plywood Structures, Inc.
Gallon Iron Works & Mfg. Co.	Ram Equipment Co.
Garrett Distributors	Tampo Manufacturing Co.
Good Roads Machinery Co.	Topeka Highway Mower Co.
Holt Equipment, Inc.	Wain-Roy Co.
Frank G.Hough Mfg. Co.	White Manufacturing Co.

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Parts Manager... Ralph Hummel	Service Mgr..... L.A.Preuss

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LINES HANDLED

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Euclid Div., GMC	Utility Trailers

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240 S.E. Clay Street PH: BE 2-0151

President..... A.F.Sersanous	Credit Manager.. Geo.W.Flatt
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BRANCH OFFICE

Eugene 540 Filmore St. R.H.MacLauchlan PH: DI 5-4334

LINES HANDLED

Adams Graders	H & L Tooth Co.
Aeroll Products, Inc.	Harnischfeger Corp.
American Air Filter Co.—	Ingersoll-Rand Co.
Herman Nelson Div.	LeTourneau-Westinghouse Co.
Bros., Incorporated	Muller Machinery Co.
Chain Belt Co.	Pettibone-Muliken Co.
Cleveland Trencher Co.	Pitman Manufacturing Co.
DeWalt, Inc.	Sasgen Derrick Co.
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BRANCH OFFICE

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			TWX: SE 750-U

LINES HANDLED

Manitowoc Engineering Corp.	Unit Crane & Shovel Corp.
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NELSON EQUIPMENT CO......PORTLAND
955 N.E.Union Avenue PH: BE 2-8111

President..... S.S.Corbett,Jr.	Vice President.. M.V.Nelson
Manager..... C.N.Petersen	Sales Manager... Mel Ehlers
Parts Manager... A.W.Andersen	Service Mgr..... M.Morley

BRANCH OFFICE

Portland	Andersen-Ore.Rental	401 NW 4th	PH: CA 7-5521
	C.N.Petersen	Manager	

LINES HANDLED

Jaeger Machine Co.	Tarrant Manufacturing Co.
Master Vibrator Co.	Thor Power Tool Co.
Mixermobile Mfg., Inc.	Wagner Tractor, Inc.
Speed King Mfg. Co.	Wooldridge Mfg. Div. of Curtis-Wright

GEORGE M. PHILPOTT CO. OREG., LTD......PORTLAND
2353 N.W. 21st Avenue PH: CA 8-9327

President..... Geo.M.Philpott	Manager..... Jack F.Bell
Parts Manager... W.A.Moore	Service Mgr..... Al.Muchmore

(Continued on next page)

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payments out of depreciation**

George M. Philpott Co. Oreg., Ltd. (Cont'd)

LINES HANDLED

Aetna Ball & Roller Brg. Co.	Industrial Couplers
Alemite Company	Link-Belt Co.
Alloy Steel & Metals Co.	The Lug-All Co.
American Road Equipment Co.	Mail Tool Co.
Atkins Chamfer Saw Chain	Marlow Pumps
Bearing Co. of America	National Carbon Co.
Culiman Wheel Co.	National Motor Bearing Co.
Dart Mfg. & Sales Co.	Newman Industries
Colorado Fuel & Iron Corp.	New Departure Bearing Co.
Dixon Valve & Coupling Co.	D.W.Onan & Sons, Inc.
George P.Dorris Co., Inc.	The Skookum Co., Inc.
Howard Drullard Co.	Tanner Gas Co.
Electric Tampo & Egmt. Co.	Timken Roller Bearing Co.
Fafnir Ball Bearing Co.	Torrington Co.
Fairbanks-Morse Co.	U.S.Rubber Co.
Gardner-Denver Co.	Wade Quick-Lok Couplers
Gates Rubber Co.	Western Fence & Wire Works
Norma Hoffman Bearing Corp.	Wincharger Corp.
Hyatt Roller Bearing Co.	Wire Rope Corp. of America

WESTERN EQUIPMENT CO. OF PORTLAND.....PORTLAND

2244 N.W.Saviler Street

PH: CA 8-4128

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Mgr. & Sis.Mgr.... Lloyd J.Miller	Parts Manager... R.L.Kent
	Service Mgr.....R.L.Kent

LINES HANDLED

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Gorman-Rupp Co.	Raybestos-Manhattan, Inc.
Hensley Equipment Co.	John A.Roebling's Sons Corp.
International Harvester Co.	Sierra Engineering Co.
Marion Power Shovel Co.	Tulsa Winch Co.
	Worthington Corp.

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PH: BE 4-6517

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LINES HANDLED

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Autolite Products	Stewart Warner Products
	Superior Diesel Engines

THE WHITE MOTOR CO. (Branch).....PORTLAND

2705 N.W.Nicolai

PH: CA 6-2411

Manager..... H.D.Collins

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PH: BE 4-0281

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	Service Mgr.....James A.Reid

LINES HANDLED

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J.I.Case Co.	Pacific Wire Rope
D-A Lubricants	Vermeer Trenchers

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PH: AT 8-5521

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LINES HANDLED

Allis-Chalmers Mfg. Co.	Inley Manufacturing Co.
Broderick & Bascom Rope Co.	Kenworth Motor Truck Co.
Browning Manufacturing Co.	Pacific Car & Foundry Co.
Electric Steel Foundry Co.	Schild Bantam Co.
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Manager..... L.E.Whealy

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PH: CY 6-2294

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LINES HANDLED

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American Tractor Egmt. Co.	Great Western Cordage
Be-Ge Manufacturing Co.	Homelite Corp.
Cushman Motor Works	I.H.C. Trucks & Tractors
Clinton Engines	Pacific Wire Rope
Davis Cordage Co.	Skookum Co.
DuPont Explosives Div.	Standard Steel Products
Esco Logging Supplies	Thor Power Tools
	Wisconsin Engines

EMPIRE MACHINERY CO. (Branch).....THE DALLES

PH: CY 6-2156

Manager..... E.R.Strahm

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Branch of S & M Supply Co., Inc.

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Manager..... F.G.Dunham

SEE MAIN LISTING UNDER GRAND JUNCTION, COLORADO

CATE EQUIPMENT CO. (Branch).....MOAB

PH: AL 3-4246

Manager..... Lester V.Hutchens

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ARCHER TRACTOR & MACHINERY CO.....SALT LAKE CITY

1118 S. Main Street

PH: EM 3-3821

Pres.& Gen.Mgr. W.D.Archer	Vice President... R.H.Rampton
Parts Manager... A.F.Smart	Service Mgr..... C.F.Payne

LINES HANDLED

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Briggs & Stratton	Joyce-Cridland Co.
Browning Manufacturing Co.	LeRol-Cleveland
C.F. & I. Corp.	Marlow Pumps
Conveyor Co.	Standard Steel Corp.
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(SEE LISTING ON OPPOSITE PAGE)

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433 West 2nd South PH: DA 2-5631

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Manager..... R.S. Pond Sales Manager... Robt.G. Arnold
Parts Manager... Robt. Horsley Service Mgr..... Wm.D. Hoffman

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Herman Nelson Div. Mulkey Conveyor Co.
Automatic Devices, Inc. Murphy Diesel Co.
Badger Div., Warner & Swasey Noble Company
Barco Manufacturing Co. Northwest Engineering Co.
Chain Belt Co. Oliver Corp.
Chicago Pneumatic Tool Co. Oshkosh Motor Trucks, Inc.
Dart Vibrator Co. Page Engineering Co.
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Eli's Equipment Co. Quick-Way Truck Shovel Co.
Gar-Bro Manufacturing Co. Ramset Fasteners
Gradall Div., Warner & Swasey Transport Trailers
Wisconsin Motor Corp.

LAS COPCO PACIFIC, INC. (Branch).....SALT LAKE CITY
1065 S. 2nd West PH: EM 4-2318

Manager..... Keith Reading

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Vice President.. R.W. Barnhouse Parts Manager... A. Jay Nielsen
Service Mgr..... Robt.W. Diener
(Continued in next column)

Atlas Equipment Co. (Cont'd)

LINES HANDLED

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Cataphote Corp. Henry Manufacturing Co.
Cleveland Trencher Co. Interstate Rubber Products Co.
Cmetco Products Co. Pioneer Engineering, Inc.
Colorado Fuel & Iron Co. Remington Tool Co.
John Deere Co. Standard Steel Works
Dietz Company Thew Lorain Shovel Co.
Electric Steel Foundry Co. United Steel Fabricators
Elgin Corporation Western Wire & Fence Works

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Service Mgr..... D.L. Anderson

BRANCH OFFICE

Moab Lester V. Hutchens Manager PH: AL 3-4246

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Columbia-Geneva Steel Div. Major Aluminum Products, Ltd.
Gar Wood Industries, Inc. Symons Brothers
General Motors Diesels Thermold-Western Co.
Ingersoll-Rand Co. Wright Power Saw & Tool Co.

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650 S. 6th West PH: DA 2-0501

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Parts Manager... W.I. Hermanson Service Mgr..... W.I. Hermanson

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Buck Manufacturing Co.
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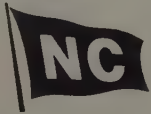
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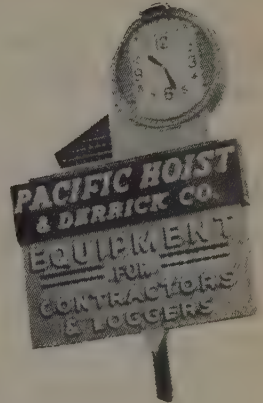
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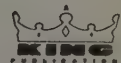
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CONTAINS:

Alphabetical listing of products manufactured by the companies listed in the yellow section.

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Link-Belt Co.
Towner Manufacturing Co.
Western Machinery Co.

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U. S. Steel Corp.
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ERATORS, Truck

Blaw-Knox Co.
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(See Spreaders, Aggregate)

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The Miller Spreader Corp.
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ATTACHMENTS

(See Tractor Attachments)

B

BARRICADES

(See Traffic Control Devices)

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Hercules Steel Products Co.
Interstate Contractors Equipment Co.
Iowa Manufacturing Co.
The C. S. Johnson Co.
Koehring Co. of California
Littleford Bros., Inc.
Miller & Smith Mfg. Co., Inc.
Noble Company
Pioneer Engineering,
Div. of Poor & Co.
Quaker Pioneer Rubber Div.
Standard Steel Corp.
Stephens-Adamson Mfg. Co.
Tampo Manufacturing Co.
Western Conveyor Co.

BATCHERS

Blaw-Knox Co.
Bodinson Manufacturing Co.
Butler Bin Co.
Chain Belt Co.
Clark Industries
Concrete Transport Mixer Co.,
Material Handling Div.
Erie Strayer Co.
Galion Allsteel Body Co.
Gar-Bro Manufacturing Co.
Guntert & Zimmerman Const. Div., Inc.
Hardy Scales Co.
The C. S. Johnson Co.
Miller & Smith Mfg. Co., Inc.
Noble Company
Standard Steel Corp.
Tampo Manufacturing Co.
Travel Batcher Corp.
Western Conveyor Co.
Willard Concrete Machinery Sales Co.

BELT FASTENERS

Flexible Steel Lacing Co.
Iowa Manufacturing Co.

BENDERS, Re-bar or pipe

C. H. & E. Manufacturing Co.
Wallace Supplies Mfg. Co.

BINS

Blaw-Knox Co.
Bodinson Manufacturing Co.
Butler Bin Co.
Chain Belt Co.
Clark Industries
Concrete Transport Mixer Co.,
Material Handling Div.
Consolidated Western Steel Div.,
U. S. Steel Corp.
The F. D. Cummer & Son Co.
Diamond Iron Works,
Div. of Goodman Mfg. Co.
Eagle Crusher Co., Inc.
Erie Strayer Co.
The Fairfield Engineering Co.
Gar-Bro Manufacturing Co.
Guntert & Zimmerman Const. Div., Inc.

Iowa Manufacturing Co.
The C. S. Johnson Co.
Koehring Co. of California
Link-Belt Co.
Lippmann Engineering Works, Inc.
Littleford Bros., Inc.
Miller & Smith Mfg. Co., Inc.
Noble Company
Pioneer Engineering,
Div. of Poor & Co.
Tampo Manufacturing Co.
Universal Engineering Corp.

BITS

(See Rock Bits)

BLADES

(See Cutting Edges)

BLADES, Abrasive

Clipper Manufacturing Co.
Concut Sales, Inc.
Diamond Tool Associates
Felter Manufacturing Co.

BLOCKS & SHEAVES

American Hoist & Derrick Co.
Joy Manufacturing Co.
M. P. McCaffrey, Inc.
Miller Swivel Products, Inc.
Morrison-Pelsue Co.
Sauerman Bros., Inc.
The Skookum Co., Inc.

BLOWERS

American Air Filter Co., Inc.
Hauk Manufacturing Co.
Homelite, Div. of Textron, Inc.
Ingersoll-Rand Co.
Interstate Contractors Equipment Co.
Joy Manufacturing Co.
King-Knight Co.
Morrison-Pelsue Co.

BOILERS

Bros Incorporated
Clayton Manufacturing Co.
Cleaver-Brooks Co.
Littleford Bros., Inc.
Malsbury Manufacturing Co.
McKiernan-Terry Corp.
Mississippi Valley Equipment Co.
Morse Bros. Machinery Co.
Western Boiler Co.

BRIDGES

Cleveland Formgrader Co.
John A. Roebling's Sons Corp.
Steel Processing & Distribution Co.
Yuba Consolidated Industries, Inc.

BUCKET LOADERS

Barber-Greene Co.
J. I. Case Co.
Caterpillar Tractor Co.
Cone Automatic Machine Co., Inc.
John Deere Industrial Division
Eagle Crusher Co., Inc.
Earthcavator Co., Inc.
Eimco Corporation
Ford Motor Co.,
Tractor & Implement Div.
Hensley Equipment Co., Inc.
Lippmann Engineering Works, Inc.
Lull Engineering Co.
Massey-Ferguson, Inc.
Ottawa Steel Div.,
Young Spring & Wire Corp.
Petribone Mulliken Corp.,
Petribone New York Div.

BUCKETS, Clamshell

Blaw-Knox Co.
Electric Steel Foundry Co.
Erie Strayer Co.
The C. S. Johnson Co.
Jos. F. Kiesler Co.
M. P. McCaffrey, Inc.
Ottawa Steel Div.,
Young Spring & Wire Corp.
The Owen Bucket Co.
Petribone Mulliken Corp.,
Petribone New York Div.

Schild Bantam Co.
The Wellman Engineering Co.
Yaun Manufacturing Co., Inc.
Yuba Consolidated Industries, Inc.

BUCKETS, Concrete

Blaw-Knox Co.
Bodinson Manufacturing Co.
Buck Equipment Corp.
Gar-Bro Manufacturing Co.
Insley Manufacturing Corp.
The C. S. Johnson Co.
Lull Engineering Co.
Miller & Smith Mfg. Co., Inc.
H. S. Watson Co.
Yaun Manufacturing Co., Inc.

BUCKETS, Dragline

Bucyrus-Erie Co.
Drake-Williams-Mount Co.
Electric Steel Foundry Co.
M. P. McCaffrey, Inc.
Page Engineering Co.
Schild Bantam Co.
The Wellman Engineering Co.
Yaun Manufacturing Co., Inc.

BUILDOZERS

(See Dozers)

C

CAR PULLERS

Bodinson Manufacturing Co.
Hewitt-Robins, Inc.
The Frank G. Hough Co.
Joy Manufacturing Co.
Link-Belt Co.
Stephens-Adamson Mfg. Co.
Superior-Lidgerwood-Mundy Corp.

CLAMPS

(See Concrete Accessories)

CLEANERS, Steam

Aerol Products Co., Inc.
Clayton Manufacturing Co.

COMPRESSORS

Atlas Copco, A.B.
Chicago Pneumatic Tool Co.
Davey Compressor Co.
Essick Manufacturing Co.
Gardner-Denver Co.
Gray Company, Inc.
Ingersoll-Rand Co.
The Jaeger Machine Co.
Joy Manufacturing Co.
LeROI Div., Westinghouse
Air Brake Co.
Mississippi Valley Equipment Co.
Morse Bros. Machinery Co.
Quaker Pioneer Rubber Div.
Quaker Compressor Co.
Schramm, Inc.
Gordon Smith & Co., Inc.
Worthington Corp.

CONCRETE ACCESSORIES

Acrow California, Inc.
Adhesive Engineering
Blaw-Knox Co.
Chain Belt Co.
Cleveland Formgrader Co.
Dart Manufacturing & Sales Co.
Dayton Sure-Grip & Shore Co.
Diamond Tool Associates
Fullerform Mfg. Co., Inc.
Gardner-Denver Co.
Gates & Sons, Inc.
Ideal Reel Co.
H. J. Krusper Co.
Ludwick Company
Richmond Screw Anchor Co., Inc.
Soiltest, Inc.
Superior Concrete Accessories
Symons Clamp & Mfg. Co.
Universal Form Clamp Co.
Whiteman Manufacturing Co.

CONCRETE CARTS, Power

American Road Equipment Co.
Gar-Bro Manufacturing Co.
Howry-Berg Steel & Iron Works, Inc.
The Prime-Mover Co.
Whiteman Manufacturing Co.

CONCRETE FINISHERS

Blaw-Knox Co.
Chain Belt Co.
Clary Manufacturing Co.
Cook Bros. Equipment Co.
Dart Manufacturing & Sales Co.
The Jaeger Machine Co.
Kelley Machine Div.,
Wiesner-Rapp Co., Inc.
Koehring Div. of Koehring Co.
Madsen Works, Div. of
Baldwin-Lima-Hamilton Corp.
Master Vibrator Co.
Muller Machinery Co., Inc.
Stow Manufacturing Co.
Thor Power Tool Co.
White Manufacturing Co.
Whiteman Manufacturing Co.

CONCRETE HEATERS

Aerofil Products Co., Inc.
Stow Manufacturing Co.

CONCRETE MIXERS

Air Placement Equipment Co.
Blaw-Knox Co.
Chain Belt Co.
Concrete Transport Mixer Co.
Construction Machinery Co.
Cook Bros. Equipment Co.
Douglas Motors Corp.
Essick Manufacturing Co.
Gilson Brothers Co.
Hardy Scales Co.
The Jaeger Machine Co.
Koehring Div. of Koehring Co.
Kwik-Mix Co.
Mixermobile Manufacturers, Inc.
Muller Machinery Co., Inc.
The T. L. Smith Co.
Worthington Corp.

CONCRETE PAVERS

Blaw-Knox Co.
Chain Belt Co.
Dortmar Industries, Inc.
Koehring Div. of Koehring Co.
Worthington Corp.

CONCRETE PLACING EQUIPMENT

Air Placement Equipment Co.
Blaw-Knox Co.
Buck Equipment Corp.
Chain Belt Co.
Cleveland Formgrader Co.
Gar-Bro Manufacturing Co.
Guntert & Zimmerman Const. Div., Inc.
The Jaeger Machine Co.
Lull Engineering Co.
No-Joint Concrete Pipe Co.
Quaker Pioneer Rubber Div.
Worthington Corp.

CONCRETE, Precast and Prestressed

American Pipe & Construction Co.
Basalt Rock Co., Inc.
Chase Concrete Machinery Co.
Empire Bldg. Material Co.
Ben C. Gerwick, Inc.
Vibro-Plus Products, Inc.

CONCRETE SPREADERS

Blaw-Knox Co.
Chain Belt Co.
The Jaeger Machine Co.
Maxon Construction Co., Inc.
Symons Clamp & Mfg. Co.

CONVEYORS, Belt

Barber-Greene Co.
Baughman Mfg. Co., Inc.
Bodinson Manufacturing Co.
Boston Woven Hose & Rubber Co.
Chain Belt Co.
Cleveland Formgrader Co.
The Colorado Fuel & Iron Corp.
Concrete Transport Mixer Co.
Material Handling Div.
Diamond Iron Works
Div. of Goodman Mfg. Co.
Eagle Crusher Co.
The Fairfield Engineering Co.
Flaherty Manufacturing, Inc.
Goodall Rubber Co.
Guntert & Zimmerman Const. Div., Inc.
Hewitt-Robins, Inc.
Iowa Manufacturing Co.
Joy Manufacturing Co.
Koehring Co. of California
Kolman Manufacturing Co.
Link-Belt Co.

Lippman Engineering Works, Inc.
Miller & Smith Mfg. Co., Inc.
Morgen Manufacturing Co.
Morse Bros. Machinery Co.
New London Engineering Co.
Noble Company
The Oliver Corporation
Petribone Mulliken Corp.,
Petribone New York Div.
Pioneer Engineering,
Div. of Poor & Co.
Quaker Pioneer Rubber Div.
Simplicity Engineering Co.
Stephens-Adamson Mfg. Co.
Thermoid Company
Thor Power Tool Co.
United States Rubber Co.
Universal Engineering Corp.
Western Conveyor Co.
Willard Concrete Machinery Sales Co.

CONVEYORS, Bucket

Barber-Greene Co.
Baughman Mfg. Co., Inc.
Bodinson Manufacturing Co.
Butler Bin Co.
Clark Industries
Cleveland Formgrader Co.
Concrete Transport Mixer Co.,
Material Handling Div.
Diamond Iron Works
Div. of Goodman Mfg. Co.
Eagle Crusher Co., Inc.
Erie Strayer Co.
Hewitt-Robins, Inc.
Link-Belt Co.
Lippman Engineering Works, Inc.
Miller & Smith Mfg. Co., Inc.
Noble Company
Petribone Mulliken Corp.,
Petribone New York Div.
Pioneer Engineering,
Div. of Poor & Co.
Stephens-Adamson Mfg. Co.
Universal Engineering Corp.
Western Conveyor Co.

CRANES, Crawler

American Hoist & Derrick Co.
Austin-Western Construction Eqp. Div., Baldwin-Lima-Hamilton Corp.
Baldwin-Lima-Hamilton Corp.,
Construction Equipment Div.
Bucyrus-Erie Co.
Clark Equipment Co.
John Deere Industrial Division
Gar Wood Industries, Inc.
The Hanson Clutch & Machinery Co.
Harnischfeger Corp.
Hughes-Keenan Div.,
U.S. Air Conditioning Corp.
Insley Manufacturing Corp.
Koehring Div. of Koehring Co.
Link-Belt Speeder Corp.
Little Giant Crane & Shovel, Inc.
Manitowoc Engineering Co.
Marion Power Shovel Co.
Mississippi Valley Equipment Co.
Northwest Engineering Co.
Page Engineering Co.
Schield Bantam Co.
Skagit Steel & Iron Works
Superior Equipment Co.
Thew Shovel Co.
Unit Crane & Shovel Corp.

CRANES, Revolving

American Hoist & Derrick Co.
American Hoist Pacific Co.
Austin-Western Construction Eqp. Div., Baldwin-Lima-Hamilton Corp.
Colby Steel & Mfg. Co.
The Hanson Clutch & Machinery Co.
Hughes-Keenan Div.,
U.S. Air Conditioning Corp.
Koehring Div. of Koehring Co.
Link-Belt Speeder Corp.
Mississippi Valley Equipment Co.
Northwest Engineering Co.
Schield Bantam Co.
Skagit Steel & Iron Works
Superior Equipment Co.

CRANES, Truck

American Hoist & Derrick Co.
Anthony Company
Austin-Western Construction Eqp. Div., Baldwin-Lima-Hamilton Corp.
Baldwin-Lima-Hamilton Corp.,
Construction Equipment Div.
Bucyrus-Erie Co.
Clark Equipment Co.
Daybrook Hydraulic Div.,
Young Spring & Wire Corp.
The Four Wheel Drive Auto Co.
Gar Wood Industries, Inc.
The Hanson Clutch & Machinery Co.
Harnischfeger Corp.
Hughes-Keenan Div.,
U.S. Air Conditioning Corp.

Insley Manufacturing Corp.
Koehring Div. of Koehring Co.
Link-Belt Speeder Corp.
Little Giant Crane & Shovel, Inc.
Manitowoc Engineering Co.
Marion Power Shovel Co.
Mississippi Valley Equipment Co.
Northwest Engineering Co.
Pitman Manufacturing Co.
Schield Bantam Co.
Sherman Products, Inc.
Stanco Mfgs. & Sales, Inc.
Teale & Company
Thew Shovel Co.
Unit Crane & Shovel Corp.
Unit Manufacturing Co.
H. S. Watson Co.

CRANES, Yard

American Hoist & Derrick Co.
Austin-Western Construction Eqp. Div., Baldwin-Lima-Hamilton Corp.
The Hanson Clutch & Machinery Co.
Harnischfeger Corp.
Hughes-Keenan Div.,
U.S. Air Conditioning Corp.
Hyster Company
Insley Manufacturing Corp.
Koehring Div. of Koehring Co.
Kolman Manufacturing Co.
Link-Belt Speeder Corp.
Northwest Engineering Co.
Thew Shovel Co.

CRUSHERS

Allis-Chalmers Mfg. Co.
Diamond Iron Works
Div. of Goodman Mfg. Co.
Eagle Crusher Co., Inc.
Flaherty Manufacturing, Inc.
Iowa Manufacturing Co.
Lippman Engineering Works, Inc.
Morse Bros. Machinery Co.
Nordberg Manufacturing Co.
Novo Pump & Engine Co.
Pioneer Engineering,
Div. of Poor & Co.
Quaker Pioneer Rubber Div.
Smith Engineering Works
Straub Manufacturing Co., Inc.
Universal Engineering Corp.

CRUSHING AND SCREENING PLANTS

Baldwin-Lima-Hamilton Corp.,
Construction Equipment Div.
Bodinson Manufacturing Co.
Diamond Iron Works
Div. of Goodman Mfg. Co.
Eagle Crusher Co., Inc.
Flaherty Manufacturing, Inc.
Hewitt-Robins, Inc.
Iowa Manufacturing Co.
Lippmann Engineering Works, Inc.
Nordberg Manufacturing Co.
Pioneer Engineering,
Div. of Poor & Co.
Quaker Pioneer Rubber Div.
Smith Engineering Works
Stephens-Adamson Mfg. Co.
Straub Manufacturing Co., Inc.
Universal Engineering Corp.
Western Conveyor Co.

EQUIVENTS

Armo Drainage & Metal Products, Inc.

CUTTING EDGES

(Dozer, Grader & Scraper)
Allis-Chalmers Mfg. Co.
Caterpillar Tractor Co.
The Colorado Fuel & Iron Corp.
Electric Steel Foundry Co.
Hensley Equipment Co., Inc.
International Harvester Co.
Earle M. Jorgensen Co.
LeTourneau-Westinghouse Co.
Shovel Supply Co.
Superior Equipment Co.
Wausau Iron Works

CYLINDERS, Hydraulic & Air

Anthony Company
Atlas Scraper & Engineering Co.
Be-Ge Manufacturing Co.
Blackhawk Manufacturing Co.
Commercial Shearing & Stamping Co.
Daybrook Hydraulic Div.,
Young Spring & Wire Corp.
Hercules Steel Products Co.
Monarch Road Machinery Co.
Rodgers Hydraulic, Inc.
Turlock Iron & Machine Works
Unit Manufacturing Co.
Wagner Iron Works (hydraulic only)
Wausau Iron Works
The Wellman Engineering Co.

D**DEMOLITION TOOLS**

Atlas Copco, A. B.
Barco Manufacturing Co.
Brunner & Lay of Los Angeles
Brunner & Lay of Portland, Inc.
Chicago Pneumatic Tool Co.
K. O. Duncan Co.
Joy Manufacturing Co.
Ottawa Steel Div.,
Young Spring & Wire Corp.

DERIVIVES

American Hoist & Derrick Co.
Highway Trailer Co.
Skagit Steel & Iron Works
Superior-Lidgerwood-Mundy Corp.
Yuba Consolidated Industries, Inc.

DIPPERS

Electric Steel Foundry Co.

DITCHERS

Arps Corporation
Barber-Greene Co.
Briscoe Manufacturers of Calif.
The Cleveland Trencher Co.
Cone Automatic Machine Co., Inc.
Earth Equipment Corp.
Gar Wood Industries, Inc.
Henry Manufacturing Co., Inc.
Hydraulic Tool & Equipment Co., Inc.
Interstate Contractors Equipment Co.
Iteco, Inc.
Northwest Engineering Co.
Ottawa Steel Div.,
Young Spring & Wire Corp.
The Parsons Co.
Shawnee Mfg. Co., Inc.
Sherman Products, Inc.
Tower Manufacturing Co.
Vermeer Manufacturing Co.

DOZERS

Allis-Chalmers Mfg. Co.
The American Coleman Co.
The American Tractor Equipment Corp.
Arps Corporation
Austin-Western Construction Eqp. Div., Baldwin-Lima-Hamilton Corp.
J. I. Case Co.
Caterpillar Tractor Co.
Clark Equipment Co.
Cone Automatic Machine Co., Inc.
John Deere Industrial Division
Earth Equipment Corp.
Imco Corporation
Ford Motor Co.
Tractor & Implement Div.
Henry Manufacturing Co., Inc.
Hydraulic Tool & Equipment Co., Inc.
International Harvester Co.
M-R-S Manufacturing Co.
The Oliver Corporation
Ottawa Steel Div.,
Young Spring & Wire Corp.
Superior Equipment Co.
Teale & Company

DRAGLINES

(See Buckets, Dragline)

DREDGING EQUIPMENT

Bodinson Manufacturing Co.
Eagle Iron Works
Essick Manufacturing Co.
Guntert & Zimmerman Const. Div., Inc.
Hetherington & Berner, Inc.
Quaker Pioneer Rubber Div.
Rockland Allied Equipment Co.
Yuba Consolidated Industries, Inc.

DRILLS, Air

Atlas Copco, A. B.
Brunner & Lay of Los Angeles
Chicago Pneumatic Tool Co.
Davey Compressor Co.
Felder Manufacturing Co.
Gardner-Denver Co.
Ingersoll-Rand Co.
Joy Manufacturing Co.
Quaker Pioneer Rubber Div.
Remington Arms Co., Inc.
Schramm, Inc.
Skill Corporation
Thor Power Tool Co.

DRILLS, Earth

Acker Drill Co., Inc.
Davey Compressor Co.
The Four Wheel Drive Auto Co.
Gardner-Denver Co.
Highway Trailer Co.
Ingersoll-Rand Co.
Interstate Contractors Equipment Co.

McCulloch Corporation
Remington Arms Co., Inc.
The Salem Tool Co.
Thor Power Tool Co.
The Winter-Weiss Co.

DRILLS, Electric

The Black & Decker Mfg. Co.
Chicago Pneumatic Tool Co.
Felter Manufacturing Co.
Homelite Div. of Tectron, Inc.
Remington Arms Co., Inc.
The Salem Tool Co.
Skil Corporation
Thor Power Tool Co.

DRILLS, Gasoline

Acker Drill Co., Inc.
Atlas Copco, A.B.
Barco Manufacturing Co.
Davey Compressor Co.
Remington Arms Co., Inc.
The Salem Tool Co.
Stanco Mfgs. & Sales, Inc.

DRILLS, Wagon

Brunner & Lay of Los Angeles
Chicago Pneumatic Tool Co.
Gardner-Denver Co.
Ingersoll-Rand Co.
Le Roi Div.,
Westinghouse Air Brake Co.
Morse Bros. Machinery Co.
Quaker Pioneer Rubber Div.
Schramm, Inc.
Thor Power Tool Co.
Worthington Corp.

DRYERS

Baldwin-Lima-Hamilton Corp.,
Construction Equipment Div.
Bodinson Manufacturing Co.
The F. D. Cummmer & Son Co.
Eimco Corporation
Iowa Manufacturing Co.
Madsen Works, Div. of
Baldwin-Lima-Hamilton Corp.
Pioneer Engineering, Div. of
Poor & Co.
Standard Steel Corp.
White Manufacturing Co.

DUMP BODIES

Aluminum Body Corp.
Anthony Company
Baughman Mfg. Co., Inc.
Clark Equipment Co.
Clement-Braswell, Inc.
Cook Bros. Equipment Co.
Curtiss-Wright Corp.
South Bend Division
Daybrook Hydraulic Div., Young
Spring & Wire Corp.
Galion Allsteel Body Co.
Gar Wood Industries, Inc.
Hercules Steel Products Co.
Hobbs Trailers
Interstate Contractors Equipment Co.
Marion Metal Products Co.
Maxon Construction Co., Inc.
Monatco Manufacturing Corp.
Pacific Car & Foundry Co.
Seaman-Gunnison Corp.
Utility Trailer Mfg. Co.
The Winter-Weiss Co.

DUST COLLECTORS

American Air Filter Co., Inc.
Baldwin-Lima-Hamilton Corp.,
Construction Equipment Div.
The F. D. Cummmer & Son Co.
Iowa Manufacturing Co.
Joy Manufacturing Co.
Madsen Works, Div. of
Baldwin-Lima-Hamilton Corp.
Pioneer Engineering, Div. of
Poor & Co.
Thor Power Tool Co.

E

ELECTRIC GENERATOR SETS

Allis-Chalmers Mfg. Co.
Caterpillar Tractor Co.
Detroit Diesel Engine Div.,
General Motors Corp.
Forney Industries
Harnischfeger Corp.
Hobart Brothers Co.
Homelite, Div. of Tectron, Inc.
Interstate Contractors Equipment Co.
Jackson Vibrators, Inc.
Karo Engineering Co.
King-Knight Co.
Kohler Company
Maginniss Power Tool Co.
Marvel Equipment Corp.
Master Vibrator Co.

Murphy Diesel Co.
Nordberg Manufacturing Co.
D. W. Onan & Sons, Inc.
Pacific Mercury Mfg. Corp.
The Ready-Power Co.
Salyers Equipment Co.
Thor Power Tool Co.
Universal Motor Co.
Waukesha Motor Co.
White Diesel Engine Div.,
The White Motor Co.
Witte Engine Works,
U.S. Steel Corp.

ELEVATING GRADERS

Harnischfeger Corp.
Ulrich Manufacturing Co.

ELEVATORS

Baughman Mfg. Co., Inc.
Beacon Machinery, Inc.
Blaw-Knox Co.
Bodinson Manufacturing Co.
Buck Equipment Corp.
Butler Bin Co.
Chain Belt Co.
Clark Industries
The F. D. Cummmer & Son Co.
The Fairfield Engineering Co.
Iowa Manufacturing Co.
Link-Belt Co.
Lippmann Engineering Works, Inc.
Madsen Works, Div. of
Baldwin-Lima-Hamilton Corp.
Miller & Smith Mfg. Co., Inc.
Mixermobile Manufacturers, Inc.
Noble Company
Smith Engineering Works
Stephens-Adamson Mfg. Co.
Universal Engineering Corp.
Universal Manufacturing Corp.

ENGINES, Diesel

Allis-Chalmers Mfg. Co.
J. I. Case Co.
Caterpillar Tractor Co.
Chicago Pneumatic Tool Co.
Continental Motors Corp.
Cummins Engine Co., Inc.
Detroit Diesel Engine Div.,
General Motors Corp.
Harnischfeger Corp.
Hercules Motors Corp.
Ingersoll-Rand Co.
International Harvester Co.
King-Knight Co.
Mississippi Valley Equipment Co.
Murphy Diesel Co.
Nordberg Manufacturing Co.
The Oliver Corporation
D. W. Onan & Sons, Inc.
Salyers Equipment Co.
Waukesha Motor Co.
White Diesel Engine Div.,
The White Motor Co.
White Motor Co.
Witte Engine Works,
U.S. Steel Corp.

ENGINES, Gasoline

Allis-Chalmers Mfg. Co.
Briggs & Stratton Corp.
J. I. Case Co.
Chrysler Marine & Industrial
Engine Div.
Continental Motors Corp.
Dart Manufacturing & Sales Co.
John Deere Industrial Division
Ford Truck Div., Ford Motor Co.
Hercules Motors Corp.
International Harvester Co.
King-Knight Co.
Kohler Company
The Oliver Corporation
D. W. Onan & Sons, Inc.
Remington Arms Co., Inc.
Reo Div., The White Motor Co.
Waukesha Motor Co.
White Motor Co.
Willis Motors, Inc.
Wisconsin Motor Corp.
Witte Engine Works,
U.S. Steel Corp.

EXPLOSIVES

Air Placement Eqp't. Co.
(Concrete Placing)
Atlas Powder Co.
Hercules Powder Co.
Monsanto Chemical Co.

F

FEEDERS

Bodinson Manufacturing Co.
The Cleveland Vibrator Co.
Diamond Iron Works, Div. of
Goodman Mfg. Co.
Hewitt-Robins, Inc.
Iowa Manufacturing Co.
Koehring Co. of California

Lippmann Engineering Works, Inc.
Madsen Works, Div. of
Baldwin-Lima-Hamilton Corp.
Miller & Smith Mfg. Co., Inc.
Pioneer Engineering,
Div. of Poor & Co.
Simplicity Engineering Co.
Smith Engineering Works
Stephens-Adamson Mfg. Co.
Straub Manufacturing Co., Inc.
Universal Engineering Corp.
Vibro-Plus Products, Inc.
Western Conveyor Co.
Yuba Consolidated Industries, Inc.

FORMS, Curb & Gutter

Acrow California, Inc.
Blaw-Knox Co.
Chain Belt Co.
Chase Concrete Machinery Co.
Clark Industries
Dotmar Industries, Inc.
Metal Forms Corp.

FORMS, Pre-Fab Panel

Acrow California, Inc.
Chase Concrete Machinery Co.
Economy Forms Corp.
Gates & Sons, Inc.
Irvington Form & Tank Corp.
Simplex Forms System, Inc.
Soule Steel Co.
Symons Clamp & Mfg. Co.
Universal Form Clamp Co.

FORMS, Tunnel & Dam

Acrow California, Inc.
Blaw-Knox Co.
Commercial Shearing &
Stamping Co.
Gunttert & Zimmerman Const. Div.
Irvington Form & Tank Corp.
Yuba Consolidated Industries, Inc.

FORMS, Steel

Acrow California, Inc.
Blaw-Knox Co.
Chain Belt Co.
Chase Concrete Machinery Co.
Chicago Bridge & Iron Co.
Clark Industries
Economy Forms Corp.
Gunttert & Zimmerman Const. Div., Inc.
Irvington Form & Tank Corp.
Metal Forms Corp.
Soule Steel Co.
Symons Clamp & Mfg. Co.
Yuba Consolidated Industries, Inc.

FRONT END LOADERS, Crawler

Allis-Chalmers Mfg. Co.
American Tractor Equipment Corp.
J. I. Case Co.
Caterpillar Tractor Co.
John Deere Industrial Division
Henry Manufacturing Co.
Eimco Corporation
Henry Manufacturing Co.
The Frank G. Hough Co.
International Harvester Co.
The Oliver Corporation
Teale & Company
Tractomotive Corp.
Wagner Iron Works

FRONT END LOADERS, Rubber Tired

Allis-Chalmers Mfg. Co.,
Construction Machinery Div.
American Road Equipment Co.
J. I. Case Co.
Clark Equipment Co.
John Deere Industrial Division
Euclid Div., General Motors Corp.
Ford Motor Co., Tractor &
Implement Div.
Henry Manufacturing Co.
The Frank G. Hough Co.
International Harvester Co.
The Jaeger Machine Co.
Lull Engineering Co.
Massey-Ferguson, Inc.
Mixermobile Manufacturers, Inc.
The Oliver Corporation
Ottawa Steel Div., Young Spring
& Wire Corp.
Sherman Products, Inc.
Superior Equipment Co.
Thew Shovel Co.
Tractomotive Corp.
Trojan Div., Yale & Towne
Mfg. Co.
Wagner Iron Works
Yale & Towne Mfg. Co.

G

GATES

Anthony Company
Armco Drainage & Metal
Products, Inc.

Blaw-Knox Co.
Bodinson Manufacturing Co.
Buck Equipment Corp.
Butler Bin Co.
Clark Industries
Concrete Transport Mixer Co.,
Material Handling Div.
The Fairfield Engineering Co.
Fullerform Mfg. Co., Inc.
Gar-Bro Manufacturing Co.
Hardy Scales Co.
Iowa Manufacturing Co.
Link-Belt Co.
Perfection Steel Body Co.
Pioneer Engineering,
Div. of Poor & Co.
S. Morgan Smith Co.
Stephens-Adamson Mfg. Co.
Universal Engineering Corp.
Yuba Consolidated Industries, Inc.

GENERATOR SETS

(See Electric Generator Sets)

GRADERS

Allis-Chalmers Mfg. Co.
Austin-Weston Construction
Eqpt. Div., Baldwin-Lima-
Hamilton Corp.
Caterpillar Tractor Co.
Cleveland Formgrader Co.
Earthcrafter Co., Inc.
The Four Wheel Drive Auto Co.
The Galion Iron Works & Mfg. Co.
The Gledhill Road Machinery Co.
Hensley Equipment Co., Inc.
Huber-Warco Co.
Petibone Mulhiken Corp.,
Petibone New York Div.
Seaman-Gunnison Corp.
Sherman Products, Inc.

GRAPERS

Joy Manufacturing Co.
M. P. McCaffrey, Inc.
The Owen Bucket Co.
Ruhr Industries
Schield Bantam Co.
The Skookum Co., Inc.
Superior-Lidgerwood-Mundy Corp.
The Wellman Engineering Co.

GRAVEL PLANTS

(See Crushing and Screening Plants)

GRINDERS, Concrete

Chicago Pneumatic Tool Co.
The Concrete Surfacing
Machinery Co.
Dart Manufacturing & Sales Co.
Marvel Equipment Corp.
Remington Arms Co., Inc.
Skil Corporation
Stow Manufacturing Co.
Thor Power Tool Co.
White Manufacturing Co.

GRINDERS, Drill Steel

Atlas Copco, A.B.
Joy Manufacturing Co.
Sandvikens Jernverks, A.B.
Skil Corporation
Thor Power Tool Co.

H

GUARD RAILS, Highway

Armco Drainage & Metal
Products, Inc.
Consolidated Western Steel Div.,
U. S. Steel Corp.
L. B. Foster Co.
Steel Processing & Distribution Co.
Traffic Equipment Co.
United Steel Fabricators, Inc.

HEATERS, Portable

Aerol Products Co., Inc.
American Air Filter Co., Inc.
Bros Incorporated
Clayton Manufacturing Co.
Cleave-Brooks Co.
Hauk Manufacturing Co.
Interstate Contractors Equipment Co.
Kelley Machine Div.,
Wiesner-Rapp Co., Inc.
Malsbary Manufacturing Co.
Master Vibrator Co.
Morrison-Pelsue Co.
Muller Machinery Co., Inc.
Stow Manufacturing Co.

HIGHWAY WIDENERS

Blaw-Knox Co.
The Cleveland Trencher Co.
Flaherty Manufacturing, Inc.
Gar Wood Industries, Inc.

HOISTS, Hand

Beebe Bros.
Clipper Manufacturing Co.
Coffing Hoist Division
Douglas Motors Corp.
Duff-Norton Co.
Griphoist, Inc.
Harnischfeger Corp.
Interstate Contractors Equipment Co.
Morrison-Pelsue Co.
Skagit Steel & Iron Works
The Skookum Co., Inc.
Stephens-Adamson Mfg. Co.
Unit Manufacturing Corp.
Yale & Towne Mfg. Co.

HOISTS, Power

Aerofil Products Co., Inc.
Aluminum Body Corp.
American Hoist & Derrick Co.
American Hoist Pacific Co.
Anthony Company
Beebe Bros.
Bodinson Manufacturing Co.
Buck Equipment Corp.
C. H. & E. Manufacturing Co.
Chicago Pneumatic Tool Co.
Coffing Hoist Division
Construction Machinery Co.
Cook Bros. Equipment Co.
Daybrook Hydraulic Div., Young
Spring & Wire Corp.
Duff-Norton Co.
Eimco Corporation
Essick Manufacturing Co.
Galion Allsteel Body Co.
Gar Wood Industries, Inc.
Gardner-Denver Co.
Harnischfeger Corp.
Hercules Steel Products Co.
Hewitt-Robins, Inc.
Highway Trailer Co.
Ingersoll-Rand Co.
The Jaeger Machine Co.
Joy Manufacturing Co.
Monarco Manufacturing Corp.
Morse Bros. Machinery Co.
Muller Machinery Co., Inc.
Novo Pump & Engine Co.
Perfection Steel Body Co.
Skagit Steel & Iron Works
S. Morgan Smith Co.
Stanco Mfgs. & Sales, Inc.
Stephens-Adamson Mfg. Co.
Sterling Machinery Co.
Superior-Lidgerwood-Mundy Corp.
Thor Power Tool Co.
Unit Manufacturing Co.
Universal Manufacturing Corp.
Yale & Towne Mfg. Co.
Yuba Consolidated Industries, Inc.

HOSE

Alomite Div., Stewart-Warner Corp.
American Tractor Equipment Corp.
Boston Woven Hose & Rubber Co.
Goodall Rubber Co.
Hewitt-Robins, Inc.
Joy Manufacturing Co.
Quaker Pioneer Rubber Div.
Thermoid Company
Thor Power Tool Co.
United States Rubber Co.
Wausau Iron Works

HYDRAULIC COUPLINGS

American Tractor Equipment Corp.
Rogers Hydraulic, Inc.
Thor Power Tool Co.
Victaulic Co. of America
Wausau Iron Works

JACKS

Blackhawk Manufacturing Co.
Branick Manufacturing Co.
Duff-Norton Co.
Edgewater Automotive Division
B. M. Heede, Inc.
Rogers Hydraulic, Inc.
Superior Scaffold Co.
Templeton, Kenly & Co.

JACKS, MUD

Koehring Div. of Koehring Co.

LEVELERS

Atlas Scraper & Engineering Co.
Be-Ge Manufacturing Co.
John Deere Industrial Division
The Gledhill Road Machinery Co.
Marvin Landplane Co.
Sherman Products, Inc.

LOADERS

(See Front End Loaders, Elevating
Graders)

LUBRICATING EQUIPMENT

Alomite Div., Stewart-Warner Corp.
Gardner-Denver Co.
Gray Company, Inc.
Lincoln Engineering Co. of Calif.
Victor Equipment Co.

M**MAGNETS**

Cleveland Formgrader Co.

P**PILE DRIVERS & EXTRACTORS**

Clark Equipment Co.
Eagle Iron Works
Gardner-Denver Co.
Koehring Div. of Koehring Co.
Link-Belt Speeder Corp.
(Pile Drivers only)
Little Giant Crane & Shovel, Inc.
Marion Power Shovel Co.
McKiernan-Terry Corp.
Mississippi Valley Equipment Co.
Quaker Pioneer Rubber Div.
Schield Bantam Co.
Vulcan Iron Works, Inc.

PILES

Armcro Drainage & Metal
Products, Inc.
L. B. Foster Co.
Mississippi Valley Equipment Co.
Yaun Manufacturing Co., Inc.

POWDER ACTUATED TOOLS

(See Tools, Powder Actuated)

PULVERIZERS, Traveling

Lippmann Engineering Works, Inc.
Perfection Steel Body Co.
Petibone-Wood Mfg. Co.
Seaman-Andwall Corp.
Sherman Products, Inc.

PUMPS

Allis-Chalmers Mfg. Co.
American Tractor Equipment Corp.
Anthony Company
Barnes Manufacturing Co.
Be-Ge Manufacturing Co.
(Power control units)
C. H. & E. Manufacturing Co.
Ralph B. Carter Co.
Carver Pump Co.
Chain Belt Co.
Chicago Pneumatic Tool Co.
Commercial Shearing &
Stamping Co.
Construction Machinery Co.
Dart Manufacturing & Sales Co.
Douglas Motors Corp.
Essick Manufacturing Co.
Gardner-Denver Co.
The Gorman-Rupp Co.
Gray Company, Inc.
B. M. Heede, Inc.
Homelite, Div. of Tectron, Inc.
Ingersoll-Rand Co.
The Jaeger Machine Co.
King-Knight Co.
Marlow Pumps, Div. of
Bell & Gossett Co.
McConaughay Mixers, Inc.
Monarch Road Machinery Co.
Novo Pump & Engine Co.
Pacific Pumping Co.
Peerless Pump Div., Food Mach.
& Chemical Corp.
Porto Pump, Inc.
Quaker Pioneer Rubber Div.
Quincy Compressor Co.
Rice Pump & Machine Co.
Schramm, Inc.
S. Morgan Smith Co.
Stanco Mfgs. & Sales, Inc.
Sterling Machinery Co.
Svenska Motorbör Aktiebolaget
Thor Power Tool Co.
Wausau Iron Works
Western Machinery Co.
Worthington Corp.

R**RIPPERS & SCARIFIERS**

Allis-Chalmers Mfg. Co.,
Construction Machinery Div.
American Tractor Equipment Corp.

Atlas Scraper & Engineering Co.
J. I. Case Co.
Caterpillar Tractor Co.
Clark Equipment Co.
Curtiss-Wright Corp.
South Bend Division
John Deere Industrial Division
Ford Motor Co., Tractor &
Implement Div.
Greenville Steel Car Co.
H & L Tooth Co.
Hensley Equipment Co., Inc.
Massey-Ferguson, Inc.
Monarco Manufacturing Corp.
Rockland Allied Equipment Co.
Seaman-Gunnison Corp.
Southwest Welding & Mfg. Co.
Superior Equipment Co.
Teale & Company
Tractomotive Corp.

ROAD MIXERS

(See Soil Stabilizing Machines)

ROCK BITS

Atlas Drill Co., Inc.
Adco Copco, A.B.
Brunner & Lay of Los Angeles
Brunner & Lay of Portland, Inc.
Chicago Pneumatic Tool Co.
Gardner-Denver Co.
Hensley Equipment Co., Inc.
Ingersoll-Rand Co.
Joy Manufacturing Co.
Sandvikens Jernverk, A.B.
Stanco Mfgs. & Sales, Inc.
Thor Power Tool Co.
Timken Roller Bearing Co.
Western Rock Bit Mfg. Co.

ROLLERS, Pneumatic

Bros Incorporated
Buffalo-Springfield Roller Co.,
Div. of Koehring Co.
Chester Products Co., Div. of
Ransohoff, Inc.
Flaherty Manufacturing, Inc.
The Galion Iron Works & Mfg. Co.
W. E. Grace Mfg. Co.
Rosco Manufacturing Co.
Seaman-Andwall Corp.
Seaman-Gunnison Corp.
Shovel Supply Co.
Southwest Welding & Mfg. Co.
Tampo Manufacturing Co.

ROLLERS, Segmented Wheel & Grid

Buffalo-Springfield Roller Co.,
Div. of Koehring Co.
Cleveland Formgrader Co.
Hyster Company

ROLLERS, Sheepsfoot

Allis-Chalmers Mfg. Co.,
Construction Machinery Div.
Bros Incorporated
Chester Products Co., Div. of
Ransohoff, Inc.
W. E. Grace Mfg. Co.
LeTourneau-Westinghouse Co.
M. P. McCaffrey, Inc.
Rockland Allied Equipment Co.
Shovel Supply Co.
Southwest Welding & Mfg. Co.
Tampo Manufacturing Co.

ROLLERS, Steel

The American Coleman Co.
Austin-Western Construction Eqpt.
Div., Baldwin-Lima-
Hamilton Corp.
Buffalo-Springfield Roller Co.,
Div. of Koehring Co.
C. H. & E. Manufacturing Co.
Essick Manufacturing Co.
The Galion Iron Works & Mfg. Co.
The Gledhill Road Machinery Co.
Hensley Equipment Co., Inc.
Huber-Warco Co.
Littleford Bros., Inc.
Rosco Manufacturing Co.
Seaman-Andwall Corp.
Seaman-Gunnison Corp.
Shovel Supply Co.
Standard Steel Works, Inc.

ROLLERS, Vibrating

Austin-Western Construction
Eqpt. Div., Baldwin-Lima-
Hamilton Corp.
Bros Incorporated
Buffalo-Springfield Roller Co.,
Div. of Koehring Co.
Essick Manufacturing Co.
The Galion Iron Works & Mfg. Co.
Iowa Manufacturing Co.
Koehring Co. of California
Rosco Manufacturing Co.
Seaman-Gunnison Corp.
Shovel Supply Co.
Tampo Manufacturing Co.
Vibro-Plus Products, Inc.

ROLLERS, Vibrating Sled

Jackson Vibrators, Inc.
Seaman-Gunnison Corp.

ROTARY SNOW PLOWS

Bros Incorporated
The Four Wheel Drive Auto Co.
The Frank G. Hough Co.
Massey-Ferguson, Inc.

RUBBER PRODUCTS

Boston Woven Hose & Rubber Co.
The Goodyear Tire & Rubber Co.
Hewitt-Robins, Inc.
Quaker Pioneer Rubber Div.
Thermoid Company
United States Rubber Co.

S**SAND BLASTING EQUIPMENT**

Air Placement Equipment Co.
Cyclone Sandblast Equipment Co.
Sanstrom Manufacturing Co.

SAWS, Concrete

Clipper Manufacturing Co.
Concut Sales, Inc.
Diamond Tool Associates
Eveready Briksaw Co.
Felter Manufacturing Co.
Skill Corporation
Thor Power Tool Co.

SAWS, Power

The Black & Decker Mfg. Co.
C. H. & E. Manufacturing Co.
Chicago Pneumatic Tool Co.
Clipper Manufacturing Co.
Comet Manufacturing Co.
Diamond Tool Associates
Homelite, Div. of Tectron, Inc.
Ingersoll-Rand Co.
McCulloch Corporation
Rockland Allied Equipment Co.
Skill Corporation
Thor Power Tool Co.
Wallace Supplies Mfg. Co.

SCAFFOLDING

Acrow California, Inc.
Beaver-Advance Corp.
Dwyer Manufacturing Co.
The Patent Scaffolding Co.
Safway Steel Products, Inc.
Superior Scaffold Co.
Symons Clamp & Mfg. Co.
Universal Manufacturing Corp.

SCALES, Truck

Hardy Scales Co.
L. R. Murphy Scale Co., Inc.
Thurman Scale Co., Div. of
Thurman Mfg. Co.

SCRAPERS

Allis-Chalmers Mfg. Co.
American Tractor Equipment Corp.
Arps Corporation
Atlas Scraper & Engineering Co.
Be-Ge Manufacturing Co.
Caterpillar Tractor Co.
Clark Equipment Co.
Curtiss-Wright Corp.,
South Bend Div.
John Deere Industrial Division
Earthcavator Co., Inc.
Euclid Div., General Motors Corp.
Ford Motor Co., Tractor &
Implement Div.
Hydraulic Tool & Equipment
Co., Inc.
International Harvester Co.
LeTourneau-Westinghouse Co.
M-R-S Manufacturing Co.
Sauerman Bros., Inc.
Seaman-Gunnison Corp.
Superior Equipment Co.
Wagner Iron Works

SCREDS

Blaw-Knox Co.
Dart Manufacturing & Sales Co.
Dayton Sure-Grip & Shure Co.
Irvington Form & Tank Corp.
Master Vibrator Co.
Stow Manufacturing Co.
Thor Power Tool Co.
H. S. Watson Co.
Whiteman Manufacturing Co.

SCREDS

Bodinson Manufacturing Co.
The Colorado Fuel & Iron Corp.
Diamond Iron Works, Div. of
Goodman Mfg. Co.

Guntter & Zimmerman Constr. Div., Inc.
Iowa Manufacturing Co.
Overstrom & Sons, Inc.
Pioneer Engineering, Div. of Poor & Co.
Simplicity Engineering Co.
Smith Engineering Works
Stephens-Adamson Mfg. Co.
Universal Engineering Corp.
Yuba Consolidated Industries, Inc.

SCREENS, Vibrating

Allis-Chalmers Mfg. Co.
Baldwin-Lima-Hamilton Corp., Construction Equipment Div.
Bodinson Manufacturing Co.
Diamond Iron Works, Div. of Goodman Mfg. Co.
Hewitt-Robins, Inc.
Iowa Manufacturing Co.
Kolman Manufacturing Co.
Link-Belt Co.
Lippmann Engineering Works, Inc.
Morse Bros. Machinery Co.
Nordberg Manufacturing Co.
Overstrom & Sons, Inc.
Pioneer Engineering, Div. of Poor & Co.
Screen Equipment Co., Inc.
Simplicity Engineering Co.
Smith Engineering Works
Stephens-Adamson Mfg. Co.
Symons Brothers Co.
Universal Engineering Corp.
Vibro-Plus Products, Inc.

SHEEPSFOOT ROLLERS

(See Rollers, Sheepfoot)

SHORES

Acrow California, Inc.
Dayton Sure-Grip & Shore Co.
The Patent Scaffolding Co., Inc.
Safway Steel Products, Inc.
Superior Scaffold Co.
Symons Clamp & Mfg. Co.
Universal Manufacturing Corp.

SHOVELS, Backhoe

American Hoist & Derrick Co.
Badger Div., Warner & Swasey Co.
Baldwin-Lima-Hamilton Corp., Construction Equipment Div.
Bucyrus-Erie Co.
J. I. Case Co.
Cone Automatic Machine Co., Inc.
John Deere Industrial Division
Earthcrafter Co., Inc.
Ford Motor Co., Tractor & Implement Div.
Gar Wood Industries, Inc.
The Hanson Clutch & Machinery Co.
Harnischfeger Corp.
The Frank G. Hough Co.
Hyster Company
Insley Manufacturing Corp.
International Harvester Co.
Koehring Div. of Koehring Co.
Link-Belt Speeder Corp.
Little Giant Crane & Shovel, Inc.
Manitowoc Engineering Corp.
Marion Power Shovel Co.
Massey-Ferguson, Inc.
Mississippi Valley Equipment Co.
Northwest Engineering Co.
Ottawa Steel Div., Young Spring & Wire Corp.
Schild Bantam Co.
Schramm, Inc.
Thew Shovel Co.
Tractomotive Corp.
Unit Crane & Shovel Corp.
Wagner Iron Works

SHOVELS, Overshot

Eimco Corporation

SHOVELS, Power

American Hoist & Derrick Co.
Baldwin-Lima-Hamilton Corp., Construction Equipment Div.
Bucyrus-Erie Co.
Gar Wood Industries, Inc.
The Hanson Clutch & Machinery Co.
Harnischfeger Corp.
Insley Manufacturing Corp.
Koehring Div. of Koehring Co.
Link-Belt Speeder Corp.
Little Giant Crane & Shovel, Inc.
Manitowoc Engineering Co.
Marion Power Shovel Co.
Mississippi Valley Equipment Co.
Northwest Engineering Co.
Schild Bantam Co.
Thew Shovel Co.
Unit Crane & Shovel Corp.

SHOVELS, Telescoping Booms

Bucyrus-Erie Co.
Gradall Div., Warner & Swasey Co.

SIGNS

(See Traffic Control Devices)

SNOW PLOWS

Allis-Chalmers Mfg. Co.
Austin-Western Construction Equip. Div., Baldwin-Lima-Hamilton Corp.
Bros Incorporated
The Burch Corp.
John Deere Industrial Division
Douglas Motors Corp.
Ford Motor Co., Tractor & Implement Div.
The Four Wheel Drive Auto Co.
The Galion Iron Works & Mfg. Co.
The Gledhill Road Machinery Corp.
Good Roads Machinery Corp.
The Frank G. Hough Co.
LeTourneau-Westinghouse Co.
Pacific Car & Foundry Co.
Edward F. Taylor Co.
Toro Manufacturing Corp.
Wagner Iron Works
Walter Motor Truck Co.
Wausau Iron Works

SNOW VEHICLES

Lull Engineering Co.
Pacific Car & Foundry Co.
Walter Motor Truck Co.

SOIL STABILIZING MACHINES

Barco Manufacturing Co.
Baughman Mfg. Co., Inc.
Bros Incorporated
Eagle Iron Works
Harnischfeger Corp.
Iowa Manufacturing Co.
Petitbone-Wood Mfg. Co.
Pioneer Engineering, Div. of Poor & Co.
Seaman-Andwall Corp.
Seaman-Gunnison Corp.

SPREADERS, Aggregate

Baughman Mfg. Co., Inc.
Blaw-Knox Co.
The Burch Corp.
Flaberty Manufacturing, Inc.
Gar Wood Industries, Inc.
Good Roads Machinery Corp.
W. E. Grace Mfg. Co.
Highway Equipment Co.
The Jaeger Machine Co.
Littleford Bros., Inc.
McConaughay Mixers, Inc.
Petitbone-Wood Mfg. Co.
Seaman-Andwall Corp.
Spears-Wells Machinery Co.
Standard Steel Works, Inc.
Ulrich Manufacturing Co.
Wausau Iron Works
Yaun Manufacturing Co., Inc.

STEEL, Reinforcing, Structural, Buildings

American Pipe & Construction Co.
Atlas Scraper & Engineering Co.
Bethlehem Pacific Coast Steel Corp.
A. M. Byers Co.
The Colorado Fuel & Iron Corp.
Jones & Laughlin Steel Corp.
Kaiser Steel Corp.
Los Angeles Steel Casting Co.
Mitchell Engineering Co.
Pacific Car & Foundry Co.
Pascoe Steel Corp.
Republic Steel Corp., Tucson Div.
Soule Steel Co.
The Steelcraft Mfg. Co.
Stran-Steel Corp.
United Steel Fabricators, Inc.
Wagner Iron Works
Wausau Iron Works
The Wellman Engineering Co.
Wonder Building Corp. of America (Buildings only)
Yuba Consolidated Industries, Inc.

STRAPPING STEEL

Wausau Iron Works
Yuba Consolidated Industries, Inc.

SUB GRADERS

Blaw-Knox Co.
Cleveland Formgrader Co.
Guntter & Zimmerman Constr. Div., Inc.
Koehring Co. of California
Seaman-Gunnison Corp.
Standard Steel Corp.

T

TAGLINES

Electric Steel Foundry Co.
McCaffrey-Ruddock Tagline Corp.
Miller Swivel Products, Inc.

TAMPERS

Aeroli Products Co., Inc.
Arrow Manufacturing Co.
Barco Manufacturing Co.
Bros Incorporated
Brunner & Lay of Portland, Inc.
Chicago Pneumatic Tool Co.
Cleveland Formgrader Co.
The Cleveland Trencher Co.
Homelite, Div. of Textron, Inc.
Jay Co., Div. of J. Leukart Machine Co., Inc.
Joy Manufacturing Co.
Kelley Machine Div., Wiesner-Kapp Co., Inc.
Le Roi Div., Westinghouse Air Brake Co.
Maginniss Power Tool Co.
Master Vibrator Co.
Ottawa Steel Div., Young Spring & Wire Corp.
R. P. B. Corporation
Schramm, Inc.
Edward F. Taylor Co.
Thor Power Tool Co.
Vibro-Plus Products, Inc.
Wacker Corporation
H. S. Watson Co.
Whiteman Manufacturing Co.
Worthington Corp.

TANKS

(See Bins)

TIES

(See Concrete Accessories)

TIRES

The General Tire & Rubber Co.
B. F. Goodrich Co.
The Goodyear Tire & Rubber Co.
United States Rubber Co.

TOOLS, Air

Arrow Tools, Inc.
Atlas Copco, A.B.
Brunner & Lay of Los Angeles
Brunner & Lay of Portland, Inc.
Chicago Pneumatic Tool Co.
Davey Compressor Co.
Gardner-Denver Co.
Ingersoll-Rand Co.
Joy Manufacturing Co.
Le Roi Div., Westinghouse Air Brake Co.
Quaker Pioneer Rubber Div.
Remington Arms Co., Inc.
Schramm, Inc.
Skill Corporation
Thor Power Tool Co.
Worthington Corp.

TOOLS, Electric

The Black & Decker Mfg. Co.
Chicago Pneumatic Tool Co.
Homelite, Div. of Textron, Inc.
Ingersoll-Rand Co.
Remington Arms Co., Inc.
Skill Corporation
Thor Power Tool Co.

TOOLS, Powder Actuated

Comet Manufacturing Co.
Omak Industries, Inc.
Ramset Fastening System
Remington Arms Co., Inc.

TRACTOR ATTACHMENTS

Allis-Chalmers Mfg. Co.
Construction Machinery Div.
Badger Div., Warner & Swasey Co.
J. I. Case Co.
Caterpillar Tractor Co.
Clark Equipment Co.
John Deere Industrial Division
Eimco Corporation
Electric Steel Foundry Co.
Ford Motor Co., Tractor & Implement Div.
Gar Wood Industries, Inc.
Henry Manufacturing Co.
Hensley Equipment Co., Inc.
The Frank G. Hough Co.
Hyster Company
International Harvester Co.
Massey-Ferguson, Inc.
The Oliver Corporation
Ottawa Steel Div., Young Spring & Wire Corp.

Pacific Car & Foundry Co.
Rockland Allied Equipment Co.
Shawnee Mfg. Co., Inc.
Sherman Products, Inc.
The Skookum Co., Inc.
Superior Equipment Co.
Tractomotive Corp.
Ulrich Manufacturing Co.
Utility Steel Foundry
Wagner Iron Works

TRACTORS, Crawler

Allis-Chalmers Mfg. Co.
J. I. Case Co.
Caterpillar Tractor Co.
John Deere Industrial Division
Eimco Corporation
Euclid Div., General Motors Corp.
The Frank G. Hough Co.
International Harvester Co.
The Oliver Corporation
White Motor Co.

TRACTORS, Rubber-Tired

Allis-Chalmers Mfg. Co.
The American Coleman Co.
J. I. Case Co.
Caterpillar Tractor Co.
Clark Equipment Co.

Curtiss-Wright Corp., South Bend Division
John Deere Industrial Division
Ford Motor Co., Tractor & Implement Div.
The Four Wheel Drive Auto Co.
The Frank G. Hough Co.
International Harvester Co.
LeTourneau-Westinghouse Co.
M-R-S Manufacturing Co.
Napco Industries, Inc.
The Oliver Corporation
Wagner Tractor, Inc.
Walter Motor Truck Co.
White Motor Co.

TRAFFIC CONTROL DEVICES

(Signs, Flashers, Reflectors, Barricades)

Cataphote Corporation
Flash-r-Lite Corp.
Hawkins & Hawkins Co.
Minnesota Mining & Mfg. Co.
Neo-Flasher Mfg. Co.
Owl-Lite Pacific
Pacific Mercury Mfg. Corp.
Steel Processing & Distribution Co.
Traffic Equipment Co.
Zumar Industries

TRAILERS

Aluminum Body Corp.
Anthony Company
Athey Products Corp.
Baughman Mfg. Co., Inc.
J. I. Case Co.
Clement-Braswell, Inc.
Cook Bros. Equipment Co.
John Deere Industrial Division
F.A.B. Manufacturing Co.
Fruehauf Trailer Co.
Fuller Manufacturing Co.
Galion Allsteel Body Co.
The Hanson Clutch & Machinery Co.
Hercules Steel Products Co.
Highway Trailer Co.
Hobbs Trailers
Hyster Company
Hyster Company, Martin Trailer Div.
La Crosse Trailer Corp.
Miller & Smith Mfg. Co., Inc.
Miller Tilt-Top Trailer, Inc.
Ottawa Steel Div., Young Spring & Wire Corp.
Perfection Steel Body Co.
Rockland Allied Equipment Co.
Rogers Brothers Corp.
Selma Trailer & Mfg. Co.
Trailmobile, Inc.
Transport Trailers, Inc.
Utility Trailer Mfg. Co.

TRENCHERS

(See Ditchers)

TRUCK BODIES

(See Dump Bodies)

TRUCK MIXERS

Blaw-Knox Co.
Chain Belt Co.
Concrete Transport Mixer Co.
Construction Machinery Co.
Cook Bros. Equipment Co.
The Four Wheel Drive Auto Co.
Galion Allsteel Body Co.
Hercules Steel Products Co.
Interstate Contractors Equipment Co.
The Jaeger Machine Co.

McConaughay Mixers, Inc.
Oshkosh Motor Truck, Inc.
The T. L. Smith Co.
White Motor Co.
Whiteman Manufacturing Co.
Willard Concrete Machinery Sales Co.

TRUCKS, Fork Lift

Allis-Chalmers Mfg. Co.
American Road Equipment Co.
J. I. Case Co.
Henry Manufacturing Co., Inc.
Hyster Company
Kwik-Mix Co.
Massey-Ferguson, Inc.

The Oliver Corporation
Ottawa Steel Div.
Young Spring & Wire Corp.
Peterbilt Motors Co.
The Prime-Mover Co.
Unit Manufacturing Co.
Yale & Towne Mfg. Co.

TRUCKS, Highway

The American Coleman Co.
Chevrolet Motor Div.,
General Motors Corp.
Cook Bros. Equipment Co.
Dodge Div., Chrysler Corp.
F.A.B. Manufacturing Co.
Ford Truck Div., Ford Motor Co.
The Four Wheel Drive Auto Co.
Fuller Manufacturing Co.
International Harvester Co.
Interstate Contractors Equipment Co.
Kenworth Motor Truck Co.
Mack Trucks, Inc.
The Maxi Corporation
Pacific Car & Foundry Co.
Peterbilt Motors Co.
Reo Div., The White Motor Co.
White Motor Co.

TRUCKS, Off-Highway

The American Coleman Co.
Clark Equipment Co.
Cook Bros. Equipment Co.

Curtiss-Wright Corp.,
South Bend Div.
Dodge Div., Chrysler Corp.
Euclid Div., General Motors Corp.
Ford Motor Co.
The Four Wheel Drive Auto Co.
Fuller Manufacturing Co.
International Harvester Co.
Interstate Contractors Equipment Co.
KW-Dart Truck Co.
Kenworth Motor Truck Co.
Koehring Div. of Koehring Co.
Mack Trucks, Inc.
Marmont-Herrington Co., Inc.
The Maxi Corporation
Oshkosh Motor Truck, Inc.
Pacific Car & Foundry Co.
Peterbilt Motors Co.
Reo Div., The White Motor Co.
Walter Motor Truck Co.
White Motor Co.
Willys Motors, Inc.

TRUCKS, Straddle

Hyster Company

Remington Arms Co., Inc.
Stow Manufacturing Co.
Thor Power Tool Co.
Vibro Company
Vibro-Plus Products, Inc.
White Manufacturing Co.
Whiteman Manufacturing Co.

VIBRATORY COMPACTORS

(See Rollers, Vibrating; Rollers, Vibrating Sled)

W**WAGONS, Drills**

(See Drills, Wagon)

WAGONS, Dirt

Arthey Products Corp.
Clark Equipment Co.
International Harvester Co.
M-R-S Manufacturing Co.
Yuba Consolidated Industries, Inc.

WASHING PLANTS, Aggregate

Baldwin-Lima-Hamilton Corp.,
Construction Equipment Div.
Bodinson Manufacturing Co.
Diamond Iron Works,
Div. of Goodman Mfg. Co.
Eagle Crusher Co., Inc.
Eagle Iron Works
Guntert & Zimmerman Const.
Div., Inc.
Iowa Manufacturing Co.
Lippmann Engineering Works, Inc.
Pioneer Engineering,
Div. of Poor & Co.
Quaker Pioneer Rubber Div.
Rockland Allied Equipment Co.
Smith Engineering Works
Stephens-Adamson Mfg. Co.
Universal Engineering Corp.
Western Machinery Co.

WEED CONTROL

Cleasby-Wittig Co., Inc.
The Oliver Corporation
Spears-Wells Machinery Co.

WELDERS & WELDING EQUIPMENT

Air Reduction Pacific Co.
Forney Industries
Harnischfeger Corp.
Hobart Brothers Co.
The Lincoln Electric Co.
Miller Electric Mfg. Co., Inc.
National Welding Equipment Co.
Nelson Stud Welding
Victor Equipment Co.

WHEELBARROWS

Gar-Bro Manufacturing Co.
Kwik-Mix Co.

WINCHES

(See Hoists)

WIRE ROPE

Broderick & Bascom Rope Co.
The Colorado Fuel & Iron Corp.
E. H. Edwards Co.
Hensley Equipment Co., Inc.
Leschen Wire Rope Div.,
H. K. Porter Co., Inc.
LeTourneau-Westinghouse Co.
Macwhyrte Wire Rope Co.
Pacific Wire Rope Co.
John A. Roebbing's Sons Corp.
Union Wire Rope Corp.
Wausau Iron Works
Wire Rope Corp. of America, Inc.

WOODWORKING MACHINERY

Comet Manufacturing Co.
Stanco Mfgs. & Sales, Inc.
Yuba Consolidated Industries, Inc.

TRADE NAMES OF MANUFACTURERS

Only when the name of a product differs from the name of the manufacturer is that brand or Trade Name listed in the Directory below.

A

ABC.....Aluminum Body Corp.
Abramsweld.....Lincoln Electric Co.
Acso.....American Chain & Cable Co.
Adams.....LeTourneau-Westinghouse Co.
Aerisweld.....Lincoln Electric Co.
Aeroquip.....Aero Coupling Co.
Air Chief.....Davey Compressor Co.
Air King.....Dixon Valve & Coupling Co.
Air-Plus.....Jaeger Machine Co.
Airco.....Air Reduction Pacific Co.
Airmaster.....LeROI Division
Airlaco.....Air Placement Equipment Co.
Airoviber.....Viber Company
Airvane.....Joy Manufacturing Co.
Alcoa.....Aluminum Co. of America
All Purpose.....Boston Woven Hose & Rubber Co.
Alligator.....Flexible Steel Lacing Co.
Alta.....Gorman-Rupp Co.
Aluminweld.....Lincoln Electric Co.
Amalloy.....A. M. Byers Co.
Amer-Clone.....American Air Filter Co., Inc.
Amer-Jet.....American Air Filter Co., Inc.
Amerglas.....American Air Filter Co., Inc.
Amso.....Amer. Manganese Steel Div.
Anderson.....Concrete Technology Corp.
Anker-Holth.....The Wellman Engineering Co.
Aquan.....Circle Wire & Cable Co.
Aquatherm.....Aro Equipment Corp.
Aro-Pak.....Circle Wire & Cable Corp.
ASA.....Union Chain & Mfg. Co.
Ascor.....Alloy Steel Corp.
Ateco.....American Tractor Eqt. Corp.
Ateco.....Greenville Steel Car Co.
Atlas Compo.....Irvington Form & Tank Corp.
Atlas.....Macwhyrte Company
Atlas.....White Motor Co.
Auto Air.....Davey Compressor Co.
Autobatch.....Pioneer Engineering Co.
Auto-Crete.....Koehring Co. of Calif.
Auto-Lock.....Superior Scaffold Co.

B

BM.....Bodinson Manufacturing Co.
Bantam.....Kelley Machine Div.
Bantam.....Schield Bantam Co.
Batch-A-Bout.....Noble Company
Batch-O-Matic.....Barber-Greene Co.
Bay State.....Boston Woven Hose & Rubber Co.
Berg.....Concrete Surf. Machy. Co.
Bethcon.....Bethlehem Pac. Coast Steel
Beth-Co-Weld.....Bethlehem Pac. Coast Steel
Big Chief.....Douglas Motors Corp.
Big Muscle.....Ottawa Steel Div.

Black Topper.....E. D. Etnyre & Co.
Blue Brute.....Worthington Corp.
Blue Center.....John A. Roebbing's Sons Corp.
Blue-line.....Gates & Sons, Inc.
Blue Ox.....Four Wheel Drive Auto Co.
Boart.....Diamond Tool Associates
Bondact.....Air Placement Eqt. Co.
Booster.....Cleaver-Brooks Co.
Boss.....Dixon Valve & Coupling Co.
Boy.....Kelley Machine Div.
Briksawmatic.....Evereedy Briksaw
Brick-Hop.....American Road Eqt. Co.
Brobas.....Broderick & Bascom Rope Co.
Brodrill.....Broderick & Bascom Rope Co.
Brogal.....Broderick & Bascom Rope Co.
Brown Strand.....Wire Rope Corp. of America, Inc.
Brownies.....H. S. Watson Co.
Buckeye.....GarWood Industries, Inc.
Budget Master.....Safway Steel Products, Inc.
Budget-Swing.....Safway Steel Products, Inc.
Buider.....Fairfield Engineering Co.
Bulk-Mobile.....Baughman Manufacturing Co.
Bull Dog.....Boston Woven Hose & Rubber Co.
Bulliclam.....Drott Manufacturing Co.
Bullock.....Lincoln Engineering Co.
Bunker Booster.....Hy-Way Machinery, Inc.
Byloy.....A. M. Byers Co.

C

CRD.....LeROI Division
Cable King.....Yale & Towne Mfg. Co.
Cal-Tie.....The Colorado Fuel & Iron Corp.
Caltesco.....Earthcavator Co., Inc.
Carco.....Pacific Car & Foundry Co.
Cargo Carrier.....Transport Trailers, Inc.
Cary-Lift.....Pettilhorne-Muliken Corp.
Cat.....Caterpillar Tractor Co.
Cedarapids.....Iowa Manufacturing Co.
Century.....Colorado Fuel & Iron Corp.
Century.....Seaman-Andwall Corp.
Challenge.....Cook Bros. Equipment Co.
Challenger.....Coffing Hoist Co.
Challenger.....Joy Manufacturing Co.
Challenger.....Unit Crane & Shovel Corp.
Champion.....Good Roads Machinery Corp.
Champion.....Joy Manufacturing Co.
Chief Rollers.....Gallon Iron Works
Chinook.....International Mfg. Co.
Chip-It-Over.....The Burch Corp.
Cincinnati.....Thor Power Tool Co.
Circab.....Circle Wire & Cable Co.
Circloc.....Circle Wire & Cable Co.
Circuit Rider.....Lippmann Engineering Co.
Circloc.....Circle Wire & Cable Co.
Cirlflex-Cirltex.....Circle Wire & Cable Co.
Cirkpak.....Circle Wire & Cable Co.

Cirtuf.....Circle Wire & Cable Corp.
Clark.....Koehring Co. of Calif.
Clarkmoore.....Littleford Bros., Inc.
Clayton.....McKiernan-Terry Corp.
Cle-Wit.....Cleasby-Wittig Co., Inc.
Clevaloy.....LeROI Div.
Climax.....Waukesha Motor Co.
Clinton.....Colorado Fuel & Iron Corp.
CMETCO.....Creative Metals Corp.
Conc Chuter.....New London Engr. Co.
Codic.....Minnesota Mining & Mfg. Co.
Collectomatic.....Heil Company
Comfort-Shield.....Lincoln Electric Co.
Concord.....Boston Woven Hose & Rubber Co.
ConCrematic.....Engineered Equipment, Inc.
Concresive.....Adhesive Engineering
Concretor.....B. M. Heede, Inc.
Conkey.....Chicago Bridge & Iron Co.
ConSawMatic.....Clipper Manufacturing Co.
Continueld.....Pioneer Engineering
Continuold.....Pioneer Engineering
Conveyco.....The Conveyor Co.
Cooltang.....Lincoln Electric Co.
Coromant.....Sandvikens Jernverks, A. B.
Cost Cutter.....New London Engineering Co.
CP.....Chicago Pneumatic Tool Co.
Crab.....Napco Industries, Inc.
Cranemobile.....Bay City Shovels, Inc.
Crescent.....Sauerman Bros., Inc.
Crosby.....American Hoist & Derrick Co.
Cruiser Crane.....Koehring Co.
Curbilder.....Miller Spreader Corp.
Currentroll.....Lincoln Electric Co.
Curve Crown.....Stephens-Adamson Mfg. Co.
Cyclone.....Lull Engineering Co.
Cyclone.....Madsen Works
Cyclone.....Safetee Products Co.
Cycloil.....American Air Filter Co., Inc.

D

Dandie.....Kwik-Mix Co.
Dandie Junior.....Kwik-Mix Co.
Darex.....Dewey & Almy Chemical Co.
Davis.....Massey-Ferguson, Inc.
Davis.....Midwestern Industries
Dearborn.....Earthcavator, Inc.
Dearborn.....Ford Motor Co.
Deuce.....Cleaver-Brooks Co.
Diaphragm.....Gorman-Rupp Co.
Diselectric.....American Hoist & Derrick Co.
Di-Lock.....Felter Manufacturing Co.
Di-Met.....Felter Manufacturing Co.
Donnar.....Ulrich Products Corp.
Dorner-Rooter.....Electric Steel Foundry Co.
Drew.....Macwhyrte Co.

TRADE NAMES OF MANUFACTURERS

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Drive-It.....Omack Industries, Inc.
 Dufael.....Nordberg Manufacturing Co.
 Dual-Prime.....Construction Machinery Co.
 Dumpcrete.....Maxon Construction Co., Inc.
 Dumptr.....Koehring Div. of Koehring Co.
 Duncan.....Seaman-Gunnison Corp.
 Duo-Flo.....Seaman-Gunnison Corp.
 Duo-Grader.....Seaman-Gunnison Corp.
 Duo-Pactor.....Seaman-Gunnison Corp.
 Duo-Scraper.....Seaman-Gunnison Corp.
 Duplex.....Engineered Equipment, Inc.
 Durolite.....Sauerman Bros., Inc.
 Dyna-Chute.....Monarch Road Machinery Co.
 Dyna-Might.....Monarch Road Machinery Co.

E

Econmobile.....American Road Eght. Co.
 Economy.....Earthcavator Co., Inc.
 Elgrader.....Reisser Corp.
 Elston.....Napco Industries, Inc.
 Endlock.....Universal Mfg. Co.
 Enginotor.....Waukesha Motor Co.
 Esco.....Electric Steel Foundry Co.
 Euc.....Euclid Div. G.M.C.
 Everett.....Earth Equipment Co.
 Eversquare.....Symons Clamp & Mfg. Co.
 Excaloder.....Link-Belt Speeder Corp.
 Excel.....The Burch Corp.
 Ekprass.....Blaw-Knox Co.
 Ezebilt.....Universal Mfg. Co.

F

Fabco.....F.A.B. Manufacturing Co.
 Faceweld.....Lincoln Electric Co.
 Faircrete.....Fairfield Engineering Co.
 Far-Pul.....Flexible Steel Lacing Co.
 Faruhar.....The Oliver Corp.
 Fast Back.....Electric Steel Foundry
 Ferguson.....Shovel Supply Co.
 Ferroweld.....Lincoln Electric Co.
 Fist-Grip.....Crosby-Laughlin Div.
 Flat Backs.....Superior Scaffold Co.
 Flatweave.....John A. Roebbling's Sons Co.
 Fleet.....Edgewater Automotive Div.
 Fleetweld.....Lincoln Electric Co.
 Fleetwelder.....Lincoln Electric Co.
 Flexco.....Flexible Steel Lacing Co.
 Flexplane.....Flexible Road Joint Mach. Co.
 Flex-V.....Flexible Steel Lacing Co.
 Flite-Chek.....Ramset Fastening System
 Flygt Pumps.....Stanco Mfgs. & Sales, Inc.
 Fold-A-Way.....Patent Scaffolding Co.
 Force-Feed.....Atthey Products Co.
 Forged-Trak.....Atthey Products Co.
 Fulpak Scrapers.....A. M. Byers Co.
 LeTourneau-Westinghouse Co.

G

G & Z.....Guntert & Zimmerman Const. Div., Inc.
 Gannon.....Earthcavator Co., Inc.
 Gas-O-Dome.....Victor Equipment Co.
 Gebhard.....Shovel Supply Co.
 General.....Marion Power Shovel Co.
 General Road.....Pitman Manufacturing Co.
 Giraffe.....Earle M. Jorgensen Co.
 Goldedde.....Patent Scaffolding Co., Inc.
 Gold Metal.....Minneapolis-Moline Co.
 Golden Powerline.....W. E. Grace Co.
 Graco.....Gray Company, Inc.
 Gracall.....Warner & Swasey Co.
 Graco-O-Matic.....The Galion Iron Works & Mfg. Co.
 Grademaster.....Atlas Scaper & Engr. Co.
 Gravel King.....Universal Engineering Corp.
 Gravelmaster.....Universal Engineering Corp.
 Green-Con.....Clippner Manufacturing Co.
 Grip Roller.....Allied Steel & Tractor Products, Inc.
 Grip Lup.....F.A.B. Manufacturing Co.
 Grizzly.....Lippman Engineering Co.
 Grizzly-King.....Municipal Supply Co.
 Gutter-Snipe.....Smith Engineering Works
 Gyrasphere.....Hewitt-Robins Co.
 Gyrex.....Ingersoll-Rand Co.
 Gyro-Flo.....Ingersoll-Rand Co.

H

HMS.....Western Machinery Co.
 H.T.D.....McConaughay Mixers, Inc.
 Hall-Mark.....Campbell Chain Co.
 Hall-Scott.....Omack Industries, Inc.
 Hammer Drive.....Littleford Bros., Inc.
 Handeebox.....Clyde Iron Works
 Handi-Crane.....Hardy Scales Co.
 Hardyatic.....Wylie Manufacturing Co.
 Heat-A-Mix.....Hi-Way Machinery, Inc.
 HeatTank.....Hetzl Steel Form & Iron
 Helco.....Novo Pump & Engine Co.
 Helicentric.....Smith Engineering Works
 Hercules.....Leschen Wire Rope Div.
 Hercules Red Strand.....American Air Filter Co., Inc.
 Herringbone.....John A. Roebbling's Sons Corp.
 Hix-Lift.....Harnischfeger Corp.
 Hiab.....Stanco Mfgs. & Sales, Inc.
 HiBoy.....Blaw-Knox Co.
 HiFatigue.....Macwhyte Company
 High-Visibility.....Lincoln Electric Co.

Hi Hopper.....New London Engineering Co.
 HiLastic.....Macwhyte Company
 Hi-Lectric.....Maginnis Power Tool Co.
 Hi-Billy.....Insley Manufacturing Co.
 Hi-Speed.....Concrete Transport Mixer Co.
 Hi-Loader.....Atthey Products Corp.
 Hi-Up.....Baughman Manufacturing Co.
 Hi-Way.....Worthington Corp.
 H. K. Crusher.....Highway Equipment Co.
 Hobbs-Schonrock.....Flaherty Manufacturing Co.
 Hoe Boy.....Hobbs Trailers
 Hoist-All.....Construction Machinery Co.
 Hoistower.....Coffing Hoist Co.
 Holgun.....Buck Equipment Corp.
 Hommobile.....Black & Decker Mfg. Co.
 Hopto Digger.....American Road Equipment Co.
 Horton.....Badger Div., Warner & Swasey Co.
 Hortonclad.....Chicago Bridge & Iron Co.
 HotTank.....Chicago Bridge & Iron Co.
 Hot Shot.....Hi-Way Machinery Co., Inc.
 Humdinger.....Kelley Machine Div.
 Hydra Hammer.....Ralph B. Carter Co.
 Hydrail.....Ottawa Steel Div.
 Hydra-Lift.....LeTourneau-Westinghouse Co.
 Hydrapac.....Pitman Mfg. Co.
 Hydra-Power.....Rosco Mfg. Co., Rolcor Div.
 Hydra-Trowel.....Perfection Steel Body Co.
 Hydra-Way.....Kelley Machine Div.
 Hydrepair.....Ottawa Steel Div.
 Hydrocrane.....Dresser Mfg. Co.
 Hydro-Jet.....Bucyrus-Erie Co.
 Hydromite.....Seaman-Gunnison Corp.
 Hydron.....Ralph B. Carter Co.
 Hydro-Sheave.....The Burch Corp.
 Hydro-Spring.....Twin Disc Clutch Co.
 Hydrovane.....Drott Mfg. Co.
 Hydro-Wynd.....Davy Compressor Co.
 Hy-Lift.....Twin Disc Clutch Co.
 Hy-Lift.....Lull Engr. Co.
 Hy-Lock-Jack.....Utility Trailer Mfg. Co.
 Hy-Lo-Jack.....Monarch Road Machinery Co.
 Hy-Power.....Monarch Road Machinery Co.
 Hy-Spill.....Turlock Iron & Machine Works
 Hystaway.....Utility Trailer Mfg. Co.
 Hyteco.....Hyster Company
 Hydraulic Tool & Eght. Co.

I

Idealare.....Lincoln Electric Co.
 Impactools.....Ingersoll-Rand Co.
 Inertarc.....Lincoln Electric Co.
 Ingram.....Acme Iron Works
 Innershield.....Lincoln Electric Co.
 Instant-Trowel.....Cook Bros. Equipment Co.
 Intelli-Giant.....Chiksan Company
 Iron Age.....The Oliver Corp.

J

Jaiflex.....Jones & Laughlin Steel Corp.
 Jaiklump.....Jones & Laughlin Steel Corp.
 Jarp.....Wausau Iron Works
 Jeep.....Willys Motors, Inc.
 Jenny.....Templeton, Kenly & Co.
 Jet Control.....Spears-Wells Mch. Co.
 Jetcrete.....Construction Machinery Co.
 Jetcreter.....Engineered Equipment, Inc.
 Jet-Hard.....Lincoln Electric Co.
 Jeweld.....Lincoln Electric Co.
 Jiffy.....Jelco, Inc.
 Jiffy Jack.....Superior Scaffold Co.
 Jiffy Link.....Page Engineering Co.
 Jlo.....Hercules Motors Corp.
 Johnson Float.....Madsen Works
 Junior.....Jones & Laughlin Steel Corp.

K

Kab Kooler.....D. W. Onan & Sons, Inc.
 Kaisalay.....Kaiser Steel Corp.
 Kai-Well.....Kaiser Steel Corp.
 Kaloric.....Quaker Pioneer Rubber Div.
 Karry Crane.....Hyster Co.
 Ker-O-Kil.....Cleasby-Wittig Co., Inc.
 Kilindo Non-Rotating.....Macwhyte Co.
 Kimberly.....Felter Manufacturing Co.
 King.....Dixon Valve & Coupling Co.
 King.....Lippman Engineering Works
 Koo-Koo.....Koehring Co. of Calif.
 Koolite.....National Welding Eght. Co.
 Kompactor.....Buffalo-Springfield Roller Co.
 Koroseal.....B. F. Goodrich Industrial Products Co.
 Kue-Ken.....Straub Manufacturing Co.
 KW.....Kenworth Motor Truck Co.
 Kwik-Melter.....Littleford Bros., Inc.
 Kwik-Steam.....Littleford Bros., Inc.

L

LMG.....Ruhr Industries
 LYS.....Link-Belt Co.
 Ladscap.....Universal Mfg. Co.
 Lay-Set.....American Chain & Cable Co.
 Lebus.....Crosby-Laughlin Div.
 LectroViber.....Viber Company
 Lew.....Lippman Engineering Works
 Lidcoat.....Western Rock Bit Mfg. Co.
 Liftmatic.....Sagen Derrick Co.
 Lima.....Baldwin-Lima-Hamilton Corp.
 Lineinductor.....Lincoln Electric Co.
 Lincontrol.....Lincoln Electric Co.

Linconweld.....Lincoln Electric Co.
 Linc-Thaw.....Lincoln Electric Co.
 Lincwelder.....Lincoln Electric Co.
 Lion.....Monsanto Chemical Co.
 Little Monster.....Madsen Works
 Live Oak.....Quaker Pioneer Rubber Div.
 Load Grab.....Hyster Co.
 Load King.....Cook Bros. Equipment Co.
 Loadmaster.....Yale & Towne Mfg. Co.
 Load-Plus.....Shawnee Mfg. Co., Inc.
 Load-Topper.....E. D. Etnyre & Co.
 Long Bowl.....Electric Steel Foundry Co.
 Long Life.....Goodall Rubber Co.
 Lorain.....Thew Shovel Co.
 Lube-Rig.....Aro Equipment Corp.
 Lube-Vans.....Lincoln Engineering Co.
 Lubrel.....Lincoln Engineering Co.
 Lubrigun.....Lincoln Engineering Co.
 Lubrovan.....Lincoln Engineering Co.
 Lute-O-Rake.....Miller Spreader Corp.

M

Mac Grab.....M. P. McCaffrey, Inc.
 Magnalite.....Dotmar Industries, Inc.
 Manganweld.....Lincoln Electric Co.
 Manjet.....Lincoln Electric Co.
 Martin.....Hyster Co., Martin Trailer Div.
 Mazzella.....Wire Rope Corp. of America
 McCarthy Drills.....The Salem Tool Co.
 McConaughay.....Asphalt Equipment Co., Inc.
 Measure-Mark.....Campbell Chain Co.
 Mechanical Muscles.....Nordberg Manufacturing Co.
 Mech-Elec.....Murphy Diesel Co.
 Mechanical Mule.....Willys Motors, Inc.
 Metafarms.....Metal Forms Corp.
 Michigan.....Clark Equipment Co.
 Midget King.....Yale & Towne Mfg. Co.
 Mighty Midget.....Coffing Hoist Co.
 Mighty Mite.....Hauck Manufacturing Co.
 Mighty-Mite.....Remington Arms Co., Inc.
 Milcor Ribform.....Inland Steel Products Co.
 Milwaukee.....Rice Pump & Machine Co.
 Mine King.....Goodall Rubber Co.
 Mississippi.....M-R-S Manufacturing Co.
 Miti-Mite.....Harnischfeger Corp.
 Mixall.....Barber-Greene Co.
 Mix-Elevators.....Air Placement Eght. Co.
 Mix-Plus.....The Jaeger Machine Co.
 Mobilite.....Pacific Mercury Mfg. Corp.
 Monarch Whyte Strand.....Macwhyte Company
 Monitor.....Cleaver-Brooks Co.
 Monomast.....Hyster Co.
 MoPeCo.....Morrison-Peluse Co.
 Motorspeed.....Gilson Bros. Co.
 Mortar-Hop.....American Road Eght. Co.
 Moto-Belt.....New London Engr. Co.
 Moto-Bug.....Kwik-Mix Co.
 Moto-Crane.....Thew Shovel Co.
 Moto-Lift.....Safway Steel Products, Inc.
 Moto-Loader.....Thew Shovel Co.
 Moto Mixer.....Chain Belt Co.
 Moto Patcher.....Hetherington & Berner, Inc.
 Moto Paver.....Hetherington & Berner, Inc.
 Movall.....Yuba Manufacturing Div.
 Mud Hogs.....Marlow Pumps
 Mud-Jack.....Koehring Div. of Koehring Co.
 Multifote.....Blaw Knox Co.
 Multiguard.....Lincoln Electric Co.
 Murex.....Metal & Thermit Co.

N

Netweld.....Nelson Steel Welding
 Newmatic.....LeRoi Division
 Non-Spatter.....Lincoln Electric Co.
 Nucrotor.....Air Placement Eght. Co.
 Nu-Way.....Towner Manufacturing Co.

O

O & K.....Ruhr Industries
 Omaha.....Drake-Williams-Mount Co.
 On-The-Square.....Madsen Works
 Os-A-Veyor.....Simplicity Engineering Corp.

P

P & H.....Harnischfeger Corp.
 P-M.....Pacific Mercury Mfg. Corp.
 PSM.....Cleaver-Brooks Co.
 Pace Maker.....Cook Bros. Equipment Co.
 Pace Maker.....Universal Engineering Corp.
 Pak-kut.....National Welding Equipment Co.
 Parson Win-Ro.....Flaherty Manufacturing Co.
 Paramount.....Boston Woven Hops & Rubber Co.
 Patcheater.....Spears-Wells Mch. Co.
 Patchmobile.....Wylie Manufacturing Co.
 Pavemaster.....Worthington Corp.
 Payhauler.....International Harvester Co.
 Payloader.....Frank G. Hough Co.
 Paylogger.....Frank G. Hough Co.
 Paymover.....Frank G. Hough Co.
 Payscraper.....International Harvester Co.
 Paywagon.....International Harvester Co.
 Peak-Temp.....Cleaver-Brooks Co.
 Peckerwood.....Van Brugh Mfg. Co., Inc.
 Pekrul.....Morse Bros. Mch. Co.
 Pelican.....Buck Equipment Corp.
 Pile-Pounder.....Littleford Bros., Inc.
 Pioneer Rock Drills.....Stanco Mfgs. & Sales, Inc.
 Pippin.....Cone Automatic Machine Co., Inc.

TRADE NAMES OF MANUFACTURERS

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Planeweld.....Lincoln Electric Co.
PlastiCone.....Gates & Sons, Inc.
PlastiKore.....Jones & Laughlin Steel Corp.
Pneumadiesel.....Schramm, Inc.
Pneumapower.....Schramm, Inc.
Pneumatractor.....Schramm, Inc.
Polka-Dot Blades.....Clipper Manufacturing Co.
Poop Deck.....Buck Equipment Corp.
Portadrill.....Winter-Weiss Co.
Porta-Mixer.....Dotmar Industries, Inc.
Porto-Plant.....Burmeister Div.
Porto-Power.....Blackhawk Manufacturing Corp.
Power Chief.....Nordberg Manufacturing Co.
Power-Flu.....LeTourneau-Westinghouse Co.
Power Gate.....Daybrook Hydraulic Div.
Power-Giant.....Dodge Div., Chrysler Corp.
Power-Guide.....Remington Arms Co., Inc.
Powerloader.....Daybrook Hydraulic Div.
Power-Mate.....Remington Arms Co., Inc.
Power-Pac.....Salyers Equipment Co.
Pow-R-Ditcher.....Vermeer Mfg. Co.
Powr-Drive.....Eveready Brikask Co.
Powr-Ho.....Wagner Iron Works
Powr-Pactor.....Maginnis Power Tool Co.
Powersteel.....Broderick & Bascom Rope Co.
Power Vane.....Chicago Pneumatic Tool Co.
Pre-Bilt.....Link-Belt Co.
Premium.....Macwhyte Wire Rope Co.
Preparator.....Bros., Incorporated
Promal.....Link-Belt Co.
Pul-Lift.....Yale & Towne Mfg. Co.
Pulsator.....Smith Engineering Works
Pulvi-Breaker.....Seaman-Andwall Corp.
Pulvi-Mixer.....Seaman-Andwall Corp.
Pumefalt.....Chalmers Mfg. Co.
Purple Strand.....Bethlehem Pac. Coast Steel Co.

Q

Quick-Drive.....Omark Industries, Inc.
Quick-Lift.....Coffing Hoist Div.

R

RC.....Link-Belt Co.
Railaid.....Koehring Div. of Koehring Co.
Railporter.....Chain Belt Co.
Ram-A-Rod.....Henry Mfg. Co.
Redi-Fab.....Barber-Greene Co.
Ready-Lut.....Eveready Brikask Co.
Redder.....Stephens-Adamson Mfg. Co.
Red Seal.....Continental Motors Corp.
Red Strand.....Leschen Rope Div.
Reliance.....Quaker Pioneer Rubber Div.
Remotrol.....Templeton, Kenly & Co.
Resinoid.....Falkner Manufacturing Co.
Rex.....Chain Belt Co.
Rhino.....Four Wheel Drive Auto Co.
Rimlock.....Falkner Manufacturing Co.
Roadmaster.....Wylie Mfg. Co., Inc.
Robak.....Hardy Scales Co.
Roc-Jak.....K. O. Duncan Co.
Rock Ram.....Lippman Engineering Works
RockerShovel.....Eimco Co.
Rocket.....Concrete Transport Mixer Co.
Roeclad.....John A. Roebeling's Sons Corp.
Roecord.....John A. Roebeling's Sons Corp.
Roewald.....John A. Roebeling's Sons Corp.
RoLine.....Waukesha Motor Co.
Rola-Paver.....H. S. Watson Co.
Rollgear.....Vibro-Plus Products, Inc.
Roll-O-Hoist.....Engineered Equipment, Inc.
Roll-O-Matic.....Galion Iron Works & Mfg. Co.
Roll-O-Pactor.....Bros., Incorporated
Rollpac.....Rosco Mfg. Co., Rotor Div.
Roll-Tee.....Templeton, Kenly & Co.
Ross Snow Plows.....The Burch Corp.
Rotadrill.....Schramm, Inc.
Rotatool.....Schramm, Inc.
Roto-Clone.....American Air Filter Co., Inc.
Rotocure.....Boston Woven Hose & Rubber Co.
Rotohaul.....Be-Ge Manufacturing Co.
Roto-Mixer.....Bros., Incorporated
Roto-Trowel.....Stow Manufacturing Co.
Roto-Valves.....S. Morgan Smith Co.
Roust-A-Bout.....Victaulic Co. of America
Ro-Way.....Roue Manufacturing Co.
Royal Blue.....John A. Roebeling's Sons Corp.
Royal Blue.....John A. Roebeling's Sons Corp.
Roustabout.....Hughes-Keenan Corp.
Royal Crown.....Madsen Works
Rubberide.....Utility Trailer Mfg. Co.
Ruby.....Koehring Co.
Rud-O-Matie.....McCaffrey-Ruddock Tagline Co.
Runabout.....Barber-Greene Co.
Runabout.....Cook Bros. Equipment Co.

S

Saco.....Stephens-Adamson Mfg. Co.
Safe Guard.....Macwhyte Co.
Safe Lock.....Macwhyte Co.
Safety Pull.....Coffing Hoist Co.
Saf-T-Swing.....Safway Steel Products, Inc.
Salt Miser.....Baughman Mfg. Co.
Sandpiper.....Rockland Allied Expt. Co.
Scari-Plow.....Towner Mfg. Co.
Scoopmobile.....Mixermobile Manufacturers
Scotchite.....Minnesota Mining & Mfg. Co.
Scout.....Shawnee Manufacturing Co.
Screen-All.....Lippman Engineering Works
Scruggs.....Black & Decker Mfg. Co.
Seal Rock.....Quaker-Pioneer Rubber Div.

Sealmaster.....Stephens-Adamson Mfg. Co.
Seco.....Salyers Equipment Co.
Seco.....Screen Equipment Co., Inc.
Select-A-Notch.....Clipper Manufacturing Co.
Selfweld.....Lincoln Electric Co.
Sentry.....Superior Scaffold Co.
Shack Jacks.....Lincoln Electric Co.
Shield-Arc.....Lincoln Electric Co.
Shoco.....Shovel Supply Co.
Shopsmith.....Yuba Power Products, Inc.
Shur-Lock.....Alemito Div., Stewart-Warner Corp.
Shur Worm.....Beebe Bros.
Sierra.....Harnischfeger Corp.
Silver-Brite.....Link-Belt Co.
Silver Streak.....Joy Manufacturing Co.
Simplex.....The Burch Corp.
Simplex.....Engineered Equipment, Inc.
Simplex.....Templeton, Kenly & Co.
Simpli-Flu.....Simplicity Engineering Co.
Skid-Loader.....Drott Manufacturing Co.
Skid-Shovel.....Drott Manufacturing Co.
Smoothflo.....The Fairfield Engineering Co.
Snap-Joint.....Victaulic Co. of America
Sno-Flu.....Bros., Incorporated
Snowblast.....Klauser Mfg. Co.
Snowblower.....Edwards Taylor Co.
Snow Fighter.....Walter Motor Truck Co.
Softweld.....Lincoln Electric Co.
Sonairduct.....Sonoco Products Co.
Sonotube.....Sonoco Products Co.
Sonovoid.....Sonoco Products Co.
South Bend.....Municipal Supply Co.
Space Saver.....Hyster Co.
Spearwell.....Spears-Wells Machinery Co.
Speeder.....Leith Manufacturing Corp.
Speed Grader.....Pettibone-Mulliken Corp.
Speedhaul.....Be-Ge Manufacturing Co.
Speed-King.....Cleasby-Wittig Co., Inc.
Speedlift.....Daybrook Hydraulic Div.
Speedmaster.....Dotmar Industries, Inc.
Speed-Master.....Hauk Manufacturing Corp.
Speedmatic.....Pettibone-Mulliken Corp.
Speed-O-Matic.....Link Belt Speeder Corp.
Speedozer.....Pettibone-Mulliken Corp.
Speed Swing.....Pettibone-Mulliken Corp.
Speedway.....Thor Power Tool Co.
Speedy.....Rice Pump & Machine Co.
Spiroloc.....Universal Form Clamp Co.
Spray Master.....Littleford Bros., Inc.
Spreadarc.....Lincoln Electric Co.
Spread-Master.....Flaherty Manufacturing Corp.
Spread-Mobile.....Baughman Manufacturing Co.
SpringKore.....Jones & Laughlin Steel Corp.
Squirt Welder.....Lincoln Electric Co.
Stable-Arc.....Lincoln Electric Co.
Stainweld.....Lincoln Electric Co.
Steffan.....National Welding Expt. Co.
StepMatic.....Clark Expt. Co., Automotive Div.
Straddle Truck.....Hyster Co.
Straightline.....Link-Belt Co.
Stratoboom.....Henry Manufacturing Co., Inc.
Sturdilite.....Phoenix Products Co.
Sulley.....Hyster Co.
Summerite.....Nordberg Manufacturing Co.
Supairthermal.....Nordberg Manufacturing Co.
Super Chief.....Davey Compressor Co.
Supergloss.....Zumar Industries
Superior.....White Motor Co.
SuperMatic.....Clipper Manufacturing Co.
Super-Power.....Coffing Hoist Co.
Supersteel.....Pacific Wire Rope Co.
Super-Visibility.....Lincoln Electric Co.
Sure-Grip.....Dayton Sure-Grip & Shore Co.
Sure-Prime.....Jager Machine Co.
Surfaceweld.....Lincoln Electric Co.
Surgeprof.....Alemito Div., Stewart-Warner Corp.
Sur-Lok.....Dayton Sure Grip & Shore Co.
Swede.....Atlas Copco Pacific Co.
Swintek.....Eagle Iron Works
SwitchMobile.....LeTourneau-Westinghouse Co.
SwitchTractor.....LeTourneau-Westinghouse Co.
Swivelader.....Stephens-Adamson Mfg. Co.
Swivelift.....Stephens-Adamson Mfg. Co.
Symons.....Nordberg Manufacturing Co.

T

Tamprite.....Los Angeles Steel Casting Co.
Tankar.....Littleford Bros., Inc.
Taper-Tye.....H. J. Krueper Co.
Tapgun.....Black & Decker Mfg. Co.
Tar Baby.....The American Coleman Co.
Telermatic.....Anthony Company
Tellevel.....Stephens-Adamson Mfg. Co.
Telsmith.....Smith Engineering Works
Terralod'r.....J. I. Case Co.
Terrapac.....Vibro-Plus Products, Inc.
Terratrack.....J. I. Case Co.
Thrift-T-Lift.....Broderick & Bascom Rope Co.
Thurma-Sonic.....Thurman Scale Co.
Thurma-Tronic.....Thurman Scale Co.
Thriftline.....Municipal Supply Co.
Tiger.....Boston Woven Hose & Rubber Co.
Tiger Brand.....Columbia Steel Co.
Tirfor.....Gripohist, Inc.
Toolweld.....Lincoln Electric Co.
Topdog.....Vibro-Plus Products, Inc.
Torcon.....Clark Equipment Co., Automotive Div.
Tournapull.....LeTourneau-Westinghouse Co.
Tournapull.....LeTourneau-Westinghouse Co.
Tournarope.....LeTourneau-Westinghouse Co.
Tournassneider.....LeTourneau-Westinghouse Co.

Tournatractor.....LeTourneau-Westinghouse Co.
Tournaweld.....LeTourneau-Westinghouse Co.
Towermobile.....Mixermobile Manufacturers, Inc.
Tractair.....LeRo Division
Tracto.....Tractomotive Corp.
Track-Lift.....Ottawa Steel Div.
Tractor Donkey.....Hyster Co.
Trail-O-Dryer.....Littleford Bros., Inc.
Trail-O-Patcher.....Littleford Bros., Inc.
Trail-O-Roller.....Littleford Bros., Inc.
Transcrete.....Construction Machinery Co.
TransVerter.....Clark Equip. Co., Automotive Div.
Traveloader.....LeTourneau-Westinghouse Co.
Travel Tower.....Pitman Manufacturing Co.
Trav-L-Plant.....Seaman-Andwall Corp.
Traxcavator.....Caterpillar Tractor Co.
Trench-Devils.....Arps Corporation
Trench Hog.....Arps Corporation
Trenchliner.....Parsons Company
Trenchmobile.....Parsons Company
Tri-Duty.....Alemito Div., Stewart-Warner Corp.
Triplex.....Edward F. Taylor Co.
Trojan.....Yale & Towne Mfg. Co.
Trouble-Saver.....Patent Scaffolding Co.
Tru-Lay.....Dough-Lynn Co.
Tru-Set.....Ramset Fastening System
Truss-Skin.....Wonder Building Corp. of America
Tubelox.....Patent Scaffolding Co.
Tuf-A-Brace.....Allied Steel & Tractor Products, Inc.
Tuffie.....Eveready Brikask Co.
Tuffy.....Union Wire Rope Co.
Tufwire.....Union Wire Rope Co.
Tugger.....Engineered Equipment, Inc.
Turbo-Lift.....Cummins Engine Co., Inc.
Turbo-Mixer.....Asphalt Equipment Co., Inc.
Turtle.....Flexible Steel Lacing Co.
Twinarc.....Lincoln Electric Co.
Twinbatch Paver.....Koehring Co.
Twin-C Tractor.....LeTourneau-Westinghouse Co.
Twin-Power.....Euclid Div., G.M.C.
Twistite.....Stephens-Adamson Mfg. Co.
Twistyle.....Universal Form Clamp Co.

U

Uni-Flow.....The Burch Corp.
Uni-Form.....Universal Form Clamp Co.
Uni-Lectric.....Maginnis Power Tool Co.
Unimog.....Curtiss-Wright Corp., South Bend Div.
Unionmelt.....Linde Air Products Co.
Unistage.....Schramm, Inc.
Uni-Temp.....Salyers Equipment Co.
UniViber.....Viber Company
U. S. Royal.....United States Rubber Co.
Utaloy.....Eimco Corp.
Utalo-A-Tool.....Templeton, Kenly & Co.
Utility.....Seaman-Gunnison Corp.

V

Vac-No-Matic.....LeRo Division
Velvetouch.....S. K. Wellman Co.
Versa-Lift.....Teale & Co.
Versatall.....Alemito Div., Stewart-Warner Corp.
Viberette.....Viber Company
Viberloc.....Viber Company
Vibracop.....Rosco Mfg. Co., Rotor Div.
Vibra-Pactor.....Bros., Incorporated
Vibrex.....Hewitt-Robins Co.
Vibro-Joint.....Seaman-Andwall Corp.
Vibro-King.....Smith Engineering Works
Vibromatic.....Pioneer Engineering Co.
Vibro-Plate.....Wacker Corporation
Vibro-Rammer.....Wacker Corporation
Vibro-Tamper.....The International Vibration Co.
Vic-Easy.....Victaulic Co. of America
Victrometer.....Victor Equipment Co.

W

Warco.....Huber-Warco Co.
Warehouser.....Yale & Towne Mfg. Co.
Warrior.....Galion Iron Works & Mfg. Co.
Washmore.....Seaman Iron Works, Inc.
Washmore.....Lippman Engineering Works
Wearwell.....Lincoln Electric Co.
Webco.....Western Boiler Co.
Webco-Ray.....Western Boiler Co.
Weda.....Svenska Motorbör Aktiebolaget
Wedge-Lok.....Clark Industries
Weight Lifter.....H. S. Watson Co.
Weldanip.....Lincoln Electric Co.
Wemco.....Western Machinery Co.
Wescon.....Western Conveyor Co.
Whirlwind.....Douglas Motors Corp.
Whirlwind.....Toro Manufacturing Corp.
Wickwire.....Colorado Fuel & Iron Corp.
Williams.....The Wellman Engineering Co.
Wireco.....Wire Rope Corp. of America
Wobble-Wheel.....Bros., Incorporated
Wonder.....Construction Machinery Co.
Work Bull.....Massey-Ferguson, Inc.
Work saver.....Yale & Towne Mfg. Co.

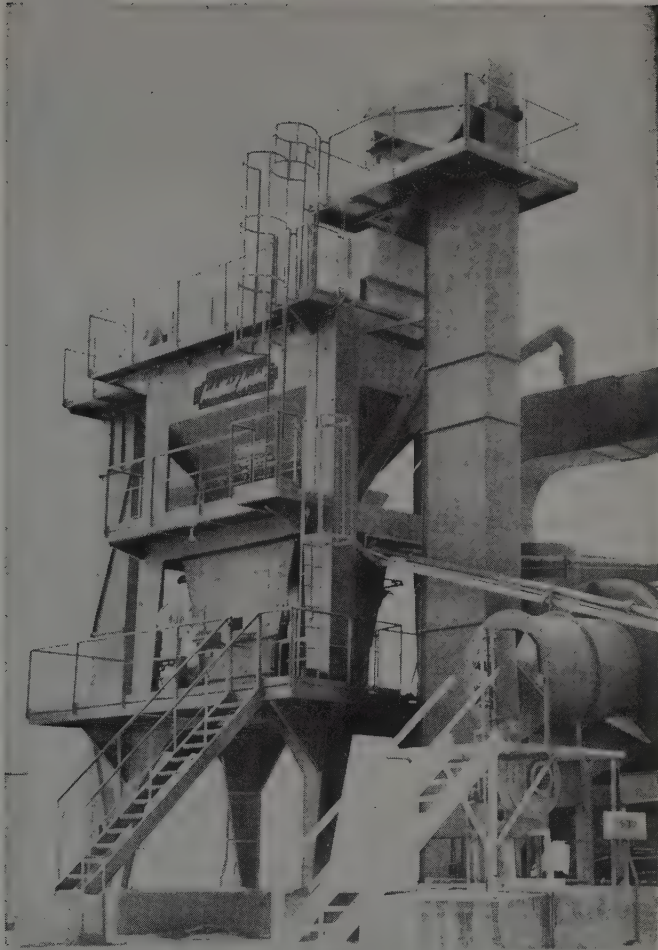
XYZ

X-Ray.....Stanco Mfgs. & Sales, Inc.
Xtra-Drill.....Eveready Brikask Co.
Yardmobile.....American Coleman Co.
Yellow Strand.....Broderick & Bascom Rope Co.
Zephyrcrane.....Link Belt Speeder Corp.
Zip-Lift.....Harnischfeger Corp.

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Successful contractors throughout the nation recognize the STANDARD model R-M as AMERICA'S NUMBER ONE ASPHALT PLANT because of its superior design and quality.

— Fast — Rugged — Clean — Economical — Describe the STANDARD model R-M Asphalt plant in its king-size capacity — Super-Lift dryer (with tooth lifter) — heavy duty, Hi-Speed mixer — complex push-button batching control — positive control of liquid asphalt — over-size elevator and vibrating screen — are some of the many money making features assuring higher production with less maintenance for successful contractors — everywhere!



Available in 2000, 3000, 4000, 5000, 6000, 7000 and 8000 pound batch capacities. No matter what your hot mix needs are, there's a STANDARD R-M plant to do the job. Economical, low erection and operating costs provide more profits year in, year out.

STANDARD

Model **R-M**

ASPHALT PLANTS

Attention Contractors!

The New STANDARD Portable T. M. Plant offers top production. A complete self-contained batch type Asphalt Plant...on wheels. One man operates! Has exclusive "SELF-LIFT" erecting device. RUGGED — ECONOMICAL — SIMPLE. Mixes up to 60 tons per hour!

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(Division of Standard Steel Corporation)

— PARTS WAREHOUSES IN LOS ANGELES AND DECATUR, ILLINOIS



ROTARY DRYERS • KILNS • COOLERS • ASPHALT PLANTS

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See manufacturer's detailed listing in Yellow Section

MASTER MECHANIC

Equipment Maintenance

Questions and Answers

QUESTION: (From T. I. Gibson, Griffith Co.)

On Caterpillar engines, precombustion chamber failure consisting of separation of the chamber usually necessitates removing the head. Is there a practical method of removing the threaded portion of the chamber without removing the head?

ANSWER: (By Lee Dockstader, Shepherd Machinery Co.)

We have found the following method to be very successful in most cases.

(1) Rotate engine to bring piston in cylinder with failed chamber to top center.

(2) Remove the upper or non-threaded portion of the failed chamber.

(3) Drill out the chamber orifice to $\frac{3}{8}$ -in. diameter. Completely fill drill flutes with grease before drilling.

(4) Remove threaded portion of failed chamber, using standard 1B-9925 Burner tube remover.

(5) Use mechanic's flexible magnet to remove all chips from cylinder.

QUESTION: (From Otis H. Fox, Cox Bros. Construction Co.)

What is a good method of preventing breakage of recoil spring track bolts on tractors?

ANSWER: (By Dave Moodie, J. A. Thompson & Sons Co.)

Take a $1\frac{1}{2}$ -in. plate and cut a circle large enough to slip over the shaft in front of the spring. Cut the lower part of the circle out so it can be installed down around the shaft. Compress the spring to regular length by taking a draw pin or something similar and laying it in the sprocket and backing up the tractor to compress the spring. Then make two gussets $\frac{3}{4} \times 2\frac{1}{2} \times 10$ in. by laying these gussets on the track frame flush with the inside of the frame with one of the gussets on the circle extending toward the rear. Weld one end to the circle and weld the gusset to the track

frame. This has given us no trouble for some time.

QUESTION: A fleet of water trucks, equipped with 4-in. pumps driven by a power-take-off with V-belts, is causing a lot of trouble. Water and dirt are cutting the belts and pulleys and requiring frequent adjusting of the belts and failure of the bearings. How can this be prevented?

ANSWER: (By Robert Moodie, J. A. Thompson & Sons, Inc.)

Use the same power-take-off transmit the power with a chain drive encased in a chain box sealed from dirt and water and lubricated with gear oil. This will reduce maintenance to almost nothing.

NOTE: The questions given here were answered by members of a special committee recently formed by the Equipment Maintenance Supervisors Association. Any reader of WESTERN CONSTRUCTION with a question on equipment maintenance is urged to submit it. The committee will try to answer it if someone can. Also, if you have a trouble-saving way of doing some maintenance operation which might be of interest to other maintenance men, send it in. We will be happy to publish it on this page. You are also invited to comment on the questions and answers already published. Address your correspondence to WESTERN CONSTRUCTION, Master Mechanic Dept., 600 Mission St., San Francisco 5, Cal.

Tire maintenance at Glen Canyon Dam

WITH PNEUMATIC TIRES to cushion the loads and take the pounding, trucks and large off-road equipment move smoothly over the semi-improved roads at the Glen Canyon Dam site in northern Arizona.

Keeping the project on schedule is a sizeable task in this remote area of the United States where rugged terrain and summer heat tax the abilities of men and equipment—and where the inaccessibility of normal service facilities could cause endless delay in the completion of this 700-ft.-high dam being built for the U. S. Bureau of Reclamation by Merritt-Chapman & Scott Corp.

One of the key service programs at the damsite is operated by B. F. Goodrich Tire Company as a part

of their Unified Contractor Program. Vigilance and a daily inspection plan are keeping more than 900 tires in service—day and night—without any delay to the rolling equipment at the Glen Canyon Dam project.

Forty-seven different types and sizes of tires, ranging from wheelbarrow size 4.00-8 to 27.00-33 off-road tires weighing nearly a ton, are inspected and serviced every day by the BFG service group. Tires are giving longer service than expected as a result of the strict program of preventive maintenance.

The B. F. Goodrich base of operation at Glen Canyon is a 6,000 sq. ft. warehouse located near the field office of Merritt-Chapman & Scott. The warehouse is located on property controlled by the Bureau.

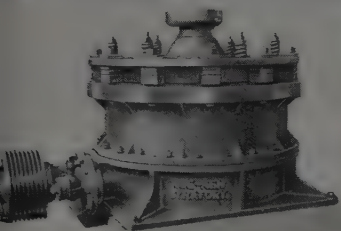
G. J. Smith, BFG truck tire representative, is responsible for the tire service facility. Under his direction, three tire servicemen, headed by Foreman Orville Underwood, service the tires on the Glen Canyon project. They inspect all tires at least once a week and examine the tires on all large equipment twice a day. "That is why we never have a surprise tire failure," Smith said. "The inspection schedule maintains keeps our servicemen well acquainted with the condition of all tires that they repair or place worn or damaged tires before they become a source of trouble."

A complete stock of all tire sizes is maintained at the warehouse to serve the contractor and the subcontractors operating at the project. In addition, a stock of spare tires

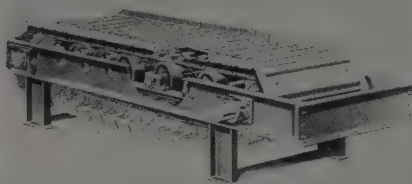
KUE-KEN® high output plants for lowest cost-per-ton crushing



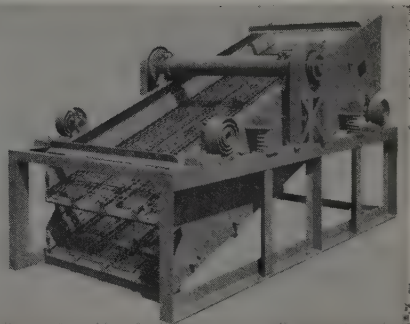
KUE-KEN 36" x 24" CRUSHER with 36" x 9' apron feeder and stationary bar type by-pass grizzly. Kue-Ken crushers in sizes from 12" x 5" to 48" x 42" as single units or in combination as shown in example (left). "Crushing without rubbing" lengthens jaw plate life 5 times or more. Built-in lubrication system avoids costly down-time. Automatic flywheel release prevents damage from tramp iron. Kue-Ken gives greater capacity for its size than any other crusher.



KUE-KEN GYRATORY CRUSHER fits into flow sheet where head room is limited and makes economical gyratory crushing practical in most any operation. Makes choke feed. "Crushing without rubbing" eliminates main cause of liner wear.



HEAVY DUTY APRON FEEDER. Heavy steel pans with upturned sides attached to heavy duty chain and supported on large diameter wide face rollers. Available as shown for mounting under bins or as a complete unit with hopper and gear motor drive—24" to 42" widths and various lengths.



OVERSTROM vibrating screens. Heavy duty in single, double, triple deck models up to 5' x 16'.



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SEATTLE, WASH.	Washington Machinery Co.
VANCOUVER, B. C.	Universal Equipment Co.
SALT LAKE CITY, UTAH.	Lund Machinery Co.
SAN ANTONIO, TEX.	Closner Equipment Co.
PORTLAND, ORE.	Contractors Equipment Co.
LOS ANGELES, CALIF.	Garlinghouse, Fremont Co.
BERKELEY, CALIF.	West Coast Engine Equip. Co.
PHOENIX, ARIZ.	Stapley's

"CRUSHING WITHOUT RUBBING"

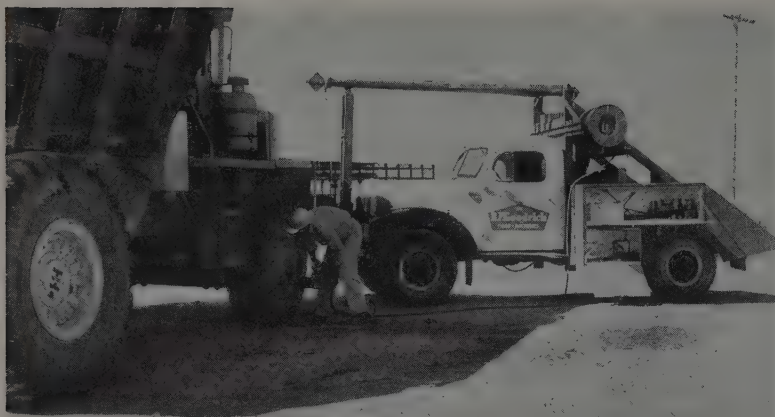
Kraus Mfg. Co., Inc., 8382 Baldwin St., Oakland 21, Calif.

Low Crushers Gyratory Crushers Overhead Eccentric Crushers Revolving Screens
Classifiers Feeders Rib Cone Ball Mills Concentrating Tables Vibrating Screens

Pennsylvania Crusher Division, Exclusive Licensed Eastern Manufacturer and Distributor, 323 S. Matlack St., West Chester, Penn.

Armstrong Whitworth (Metal Industries) Ltd., Authorized Licensed Manufacturer and Distributor. Close Works, Gateshead-upon-Tyne 8, England

... for more details, circle No. 78 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section



TIRE SERVICE MAN Ralph Shiffer changes the 14.00-24 front tire on an International Payhauler. Power tools on the service truck speed up the job and make the largest off-road tires easy to handle. Nine hundred tires in use at Glen Canyon Dam are inspected as often as twice daily.

mounted on wheels, is ready at a moment's notice for handling emergency calls.

Every tire in service at the Glen Canyon Dam project has its own case history on our record cards. Every month the service records of all tires are reviewed to show the results of our maintenance program. Reports to the contractor state the reason whenever a tire is removed from service.

Goodrich has recently opened a large new tire retreading plant in Phoenix to handle the retreading requirements at Glen Canyon. The plant there is equipped to serve tire dealers, commercial accounts and industrial firms in Arizona but the large size molds were installed primarily to give fast tire retreading service to Merritt-Chapman & Scott.

In addition to the truck on the east side and tire service facilities

down in the canyon, Service Truck and a special Servicemobile operate from the tire warehouse. All of the vehicles are equipped with air compressors and power tools for handling every type of tire service on the job. The large service truck has a hydraulic hoist for handling the huge off-road tires.

Occasionally the tire service trucks are called to make an emergency trip 30 or 40 mi. out on the roads approaching the dam site to assist subcontractors' trucks having tire trouble. They handle those calls with the dispatch of a big city fire department.

Tire service men Ralph Shiffer and Eldred Cluff ride the cable cage 700 ft. down into the canyon each morning to inspect the tires on all vehicles working there. They go back to their posts at topside—Cluff to the tire warehouse; Shiffer to operate the service truck across the canyon. Only a suspension foot bridge 1,200 ft. long now provides a means of crossing the canyon without descending to the canyon floor. Each tire service man, taking his turn, is on service call 24 hours a day.

These are the 23 different types of equipment operating at the Glen Canyon Dam project that need vigilant tire service: Euclid belt end dumps, International Payhauler end dumps, Hough loader, Caterpillar motor patrol grader, International Transport tractors, Corline Dumpsters, Cook belly dump trailers, Mack end dumps and tractors, Krane Kars, Lorraine Motors, Cranes, International tire service truck, Fruehauf heavy duty low boy trailers, White buses, Mac transit mix, International field maintenance trucks, Chevrolet tire service truck, International Travelers, International pickups, Joy and Gardner-Denver air compressors, Hyster fork lifts, Ford sedans, and wheelbarrows.

Each type of truck and off-road tire used on that equipment has a different tread design and casing construction for specific service conditions.

OUR DRILLING REVEALED A DIFFERENCE OF 320 ft.



BORING SETUP—NEW YORK HARBOR

On the site of a proposed tunnel requiring sub-aqueous borings we proved the presence of bedrock at depths of only 180 ft., whereas a different method by others had indicated that the overburden extended to depths of over 500 ft. Thus, again it was proved that the cost of an adequate and reliable foundation investigation program is essential in the design of a tunnel, building, bridge, or other structure.

The complete story of our contract drilling service is contained in the new S & H Contract Brochure. Outstanding and unusual drilling projects are illustrated and described. Write for your copy today!

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SCRANTON 2, PA.



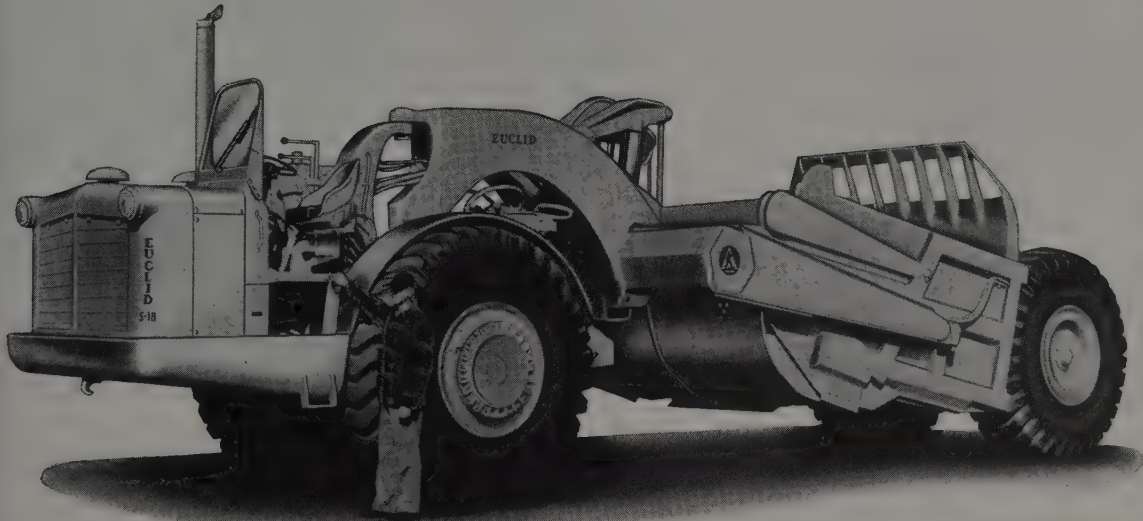
New York — Philadelphia — Atlanta — Pittsburgh — Grand Junction, Colo. — Buchans, Nfld.

... for more details, circle No. 79 on Reader Service Postcard

EMSA Portland Chapter

A new chapter of the Equipment Maintenance Supervisors Association is being formed in the Portland, Ore., area. Interested persons in the vicinity are urged to contact T. I. Gibson, P.O. Box 548, Alhambra, Calif.

Now... "Euc" S-18 Scraper has struck capacity of 21 yds.



You get even more productive capacity in the new S-18... here are some of the reasons why:

- capacity increased from 18 to 21 cu. yds. struck... carries up to 30 yds. heaped
- more horsepower... 325 h.p. improves power-to-weight ratio
- 4-speed Torqmatic with converter lock-up... maximum power and fuel economy on grades and high speed hauls
- greater structural strength... designed for push-loading by the biggest tractors

See your Euclid dealer for complete data on the improved S-18... he'll be glad to explain the production advantages of this new scraper.

EUCLID Division of General Motors, Cleveland 17, Ohio



Hydraulic lever action provides fast, independent control of all scraper operations... eliminates cable "headaches"... permits controlled spreading of the load.



Torqmatic Drive pays off in faster cycle time and better production. There's no clutching or loss of momentum when changing to any of the 4-forward speeds. Converter lock-up provides direct drive for grades and long hauls.



EUCLID EQUIPMENT

FOR MOVING EARTH, ROCK, COAL AND ORE

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"THIS LUBRICANT CUT BEARING REPLACEMENTS OVER 40%"



says—HANOVER BUILDING SUPPLY CO. of Hanover, Pa.

"Before using LUBRIPLATE, we replaced the wheel bearings in over 50% of our trucks each year. Since using it, bearing replacements have dropped to less than 10%. We have also been able to increase periods between chassis lubrications from 500 to 2000 miles. We are very happy over our change to LUBRIPLATE, and heartily recommend it to fleet operators interested in saving money."

HANOVER BUILDING SUPPLY CO.
C. O. Albright, Pres.

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LUBRIPLATE
THE MODERN LUBRICANT

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Cut track repair costs



ROCK WORK or other rough jobs may cause end collar bolts to become loosened. Periodically inspect and tighten both the inside and outside end collar bolts. Easier access to the inside the tractor roller frame is possible by driving the tractor up on blocks.

Are your maintenance costs on crawler tractors getting too high? Then read this run-down of cost-cutting tricks of the trade.

By THOMAS C. KINGSLEY

Service Department
Caterpillar Tractor Co.

THE FIRST CONSIDERATION in a discussion of track problems is the type of jobs a machine encounters. The manufacturer of the track-type tractor markets a basic machine with standard equipment for application under most job conditions. The marketing system does not burden any owner with the purchase of expensive, unwanted and unnecessary equipment. To obtain more economical service life under severe operating conditions, the manufacturer makes available a selection of attachments and special parts which will satisfy all but the most extraordinary conditions. The application determines which attachments are most economical and most needed.

For example, the use of a track-type tractor in rock work presents operating conditions and wear characteristics very different from those encountered in routine dirt work. Track shoes, rollers, idlers, links, pins, bushings, final drive sprockets, guards and even hardware wear longer in dirt operations than in rock. Tractors operating in rock must be equipped to combat in-

creased depreciation if the owner expects to attain the longest possible service life and best value for his investment.

In this case, track shoes are the first parts to consider. Wide track shoes are the most satisfactory when flotation is needed for operating in mud, gumbo and some dirt work. Quite naturally, track shoes are more susceptible to breakage when rock is encountered. Wide track shoes have greater overhang beyond the track chain than narrow shoes. Loads applied to the outer edge of the wide shoes create greater leverage. The result is that wide shoes are more frequently damaged when working in rock than are narrow shoes. There is another advantage of narrow shoes. When working on hard material the narrow grouser will penetrate deeper, increasing traction.

For those operations when a tractor is called upon to work almost exclusively in rock, special heavy-duty track shoes should be used. These shoes may be of either double grouser or flat design depending upon the amount of traction needed. In especially abrasive rock a manganese alloy shoe may prove to be the most economical investment.

When a track-type tractor is working in rock, don't overlook the advantages of track roller guards. From the standpoint of economy these attachments will pay for themselves many times over. Field experience has proved that track roller



Alert contractor wins extra jobs with quick-move Pioneer Portables

ask, profitable bituminous paving
ess has been built up by use of
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ornia.

*and it's been able to do it on jobs
its competitors couldn't even
even.*

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PIONEER 45VE crushing and screen-
ant can be moved quickly and eco-
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... over steep, twisting mountain
... often at speeds up to 35 mph
d with a minimum of dismantling.

led into a pit, the 45VE is ready
within hours ... able to turn out
tonnages of crushed material to
exact specifications ... and so
nt that A & E can afford to move
iles for a 4,000 ton job.

other mobile and important reason

for A & E's success is a PIONEER Model
102 continuous-mix portable bitumi-
nous plant that is producing up to 209
tons of bituminous material per hour
while requiring only 2 gallons of fuel to
dry a ton of near-saturated aggregates.

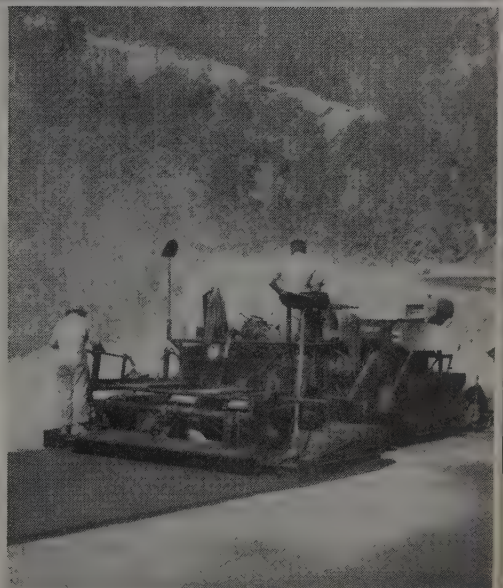
A PIONEER *VIBRO*matic Bituminous
Paver completes A & E's modern bitu-
minous team.

If your future plans call for either
crushing or bituminous work, it will pay
you to learn how PIONEER's *truly mo-
bile* equipment will help you submit
lower bids ... and at the same time,
make you a neat profit.

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EQUIPMENT

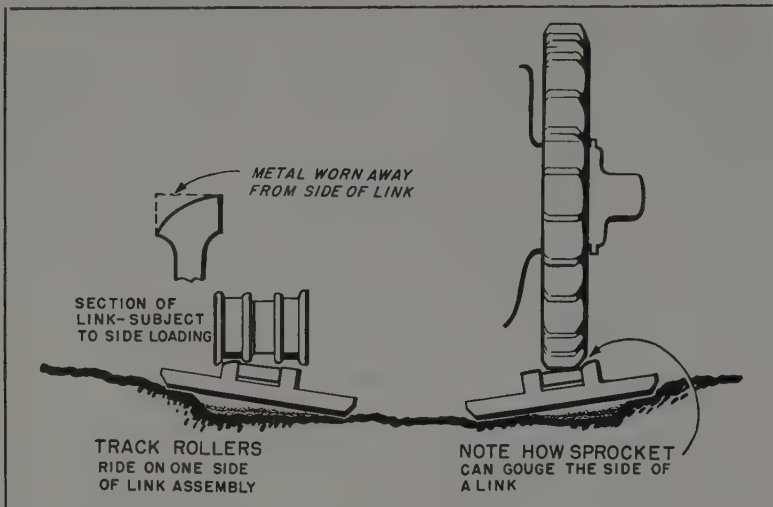
Manufactured by Pioneer Engineering, Division of
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Pioneer *VIBRO*matic Bituminous Paver employs oscillat-
ing screed and vibrating compactor to lay mats of
uniform density from the bottom up.

Below. A & E's Portable *Continuflow* Bituminous Mixing
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sizes with capacities up to 200 tons per hour.





A NEW PROBLEM contractors face is that modern push tractors are often wider than the cut of the scraper, resulting in uneven wear on the tracks. Narrow or inside offset shoes should be used that match the cut of the narrowest scraper on the job.

guards effectively protect track parts and extend service life. These guards are designed to keep rocks from feeding in and being crushed between the track rollers and the track.

In addition to abrasive wear between the rollers and the track links, rock which feeds into an un-

protected track causes many other difficulties. The crushing impact causes breakage of links, roller flanges and other parts. Rock causes external wear on bushings, idler rims and sprocket teeth. The impact of the crushing action slashes the life of the track roller bushings. Rock can cause track to tighten ex-

cessively around the sprocket. Stretching out track causes the link pin and bushing bores to expand, resulting in loose pins and bushings.

Track roller guards help hold the track on the rollers on steep slopes. These attachments also help reduce wear on roller flanges and idler pilot rims. Rock guards are not unimportant gadgets; they are essential for economical operation in rock and over rough terrain.

Rock isn't the only material dictating the use of alternate parts or attachments. Snow, mud and wet sand have a tendency to "pack" in the track and cause severe strain on all track components. To prevent material from building up and clogging tracks, install special snow shoes which have a cut-out section in the center between the bolt holes, and snow pockets which have deeper recesses between the teeth than standard sprockets.

The advent of large push tractors has also brought about the need for other special track shoes. The width of the push tractor is usually wider than older makes of scrapers. The outer edge of the track shoe rides up out of the scraper cut forcing the track in toward the tractor. This condition causes the sprockets to rub against the outside link as well as causing accelerated wear to roller and idler flanges. Where flotation is not a factor, narrow shoes offer the best solution to the problem. If flotation is required, when working in such materials as sand or mud, offset shoes should be used that match the cut of the narrowest scraper on the job.

Consider the selection of track equipment and attachments which are available for use in other than average conditions. The tractor which is equipped to meet the problems of the job will give the best performance.

The role of the operator

Once a tractor is equipped to accomplish a job in the most economical manner, the operation of the tractor should be considered. If an operator understands the importance of proper machine operating techniques, he can do much to lengthen track life.

Track rollers distribute the tractor's weight over a large area. Proper operating techniques let each roller carry its fair share of the load. Reckless, "cowboy" operation over rough, rocky ground or other obstacles slams the impact from one track roller to another. This is no

(Continued on page 152)

NOW! FASTER TESTS . . . MORE TESTS . . .



. . . WITH THE SAME MANPOWER!

WASHINGTON Dens-o-meter

THE KEY TO ACCURATE FIELD TESTS FOR MOISTURE-DENSITY IN EMBANKMENT AND FOUNDATION SOILS.

The DENS-O-METER is light in weight, compact, very portable, easy and economical to operate and maintain!

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- in all types soils and granular base materials
- in approximately 3 minutes after hole is dug

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Man-hours at John Day

UTILIZING McNary Dam construction records as a measuring pattern, John Day lock and dam during its approximate ten years of construction life, 1958 to 1967, will consume an estimated 47,500,000 man-hours. This man-hours estimate is inclusive of work at the dam site by both Government and contractor employees; plus road and rail relocation work. The estimate was prepared by Otto R. Lunn, Chief Engineer of the Design Branch of the U. S. Army Engineer District, Walla Walla, Corps of Engineers. While Lunn emphasizes that the figures are an estimate, their method of computation is basic.

In the construction of the \$286,000,000 McNary Dam on the Columbia River, 33,168,490 man-hours were consumed by Government and contractor employees in work on the dam site and in relocation. The John Day and McNary Dam construction life tallies approximately the same, nine and ten years respectively.

By dividing the number of man-hours consumed in the construction life of McNary into the total cost of the project, a per-man-hour cost is obtained. The cost figures are inclusive of land acquisition, relocation and on and off work at the dam site. This pattern is almost identical to the work pattern prepared for John Day Dam.

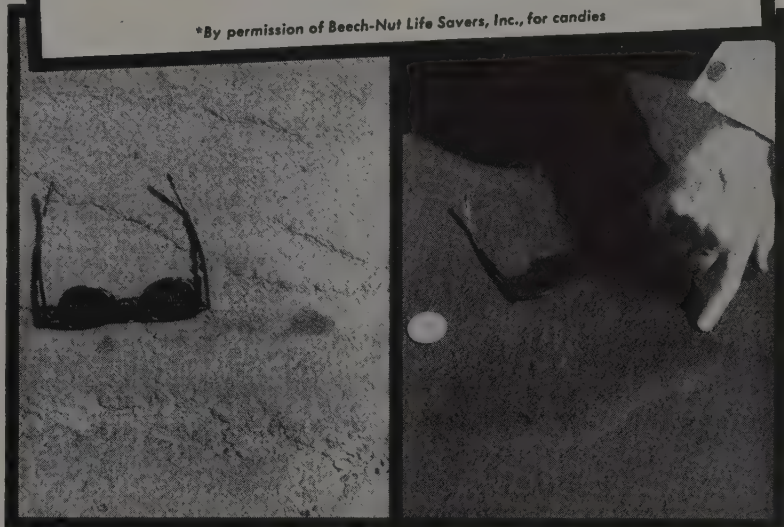
At John Day Dam, the estimated complete cost of the dam, inclusive of off-site man-hours, material cost, and acquisition, relocation, and estimate man-hours was divided by the man-hour cost factor experienced at McNary Dam. The result is the total estimated man-hours needed to complete the John Day project.

According to Lunn, nationally, productive man-hours, due to new methods and new improvements in equipment, is on the rise. Increased costs, however, stabilize this increase in productivity, making the ratio of project cost to man-hours as experienced at McNary, fairly accurate as a measuring yardstick for John Day Dam.

Following through on the McNary construction pattern as applies to John Day Dam study, the estimated average number of men to be employed annually at John Day varies from 2,000 in 1959 to a peak of 3,200 in 1964. The maximum men employed at the dam site in any one month will peak to approximately 3,500 in 1964.

BITUMULS SLURRY SEALS ARE REAL LIFE SAVERS* For Pavements in Rochester, New York

*By permission of Beech-Nut Life Savers, Inc., for candies



These photos tell the "before and after" story of Bitumuls Slurry Sealing. Notice in the photo, right, how the large crack in foreground has been filled and sealed.

The City of Rochester, New York, was faced with a situation common to many communities today. The Problem: keep all streets maintained in serviceable condition; yet do it at a cost that will permit the complete replacement (out of Maintenance Department funds) of many miles of streets that are over-aged. The Answer: Bitumuls Slurry Sealing... a "life saving" technique for keeping distressed pavements in good serviceable condition!

The Bitumuls® emulsified asphalt slurry provided a holding action against

wear and weather at extremely low cost, with important savings over former methods. Very costly winter patching of chuck-holes was completely eliminated. As a result, expenditures for repair and control of winter damage were **reduced by almost seventy percent!** And savings were diverted to reconstruction of streets that were beyond maintenance or repair.

Bitumuls Slurry Sealing should be regarded as only a **temporary treatment** for distressed pavements. Adequate repairs or pavement-replacement must eventually be made. Yet, it is truly a "Life Saver", since it seals, protects and preserves any basically sound pavement against further deterioration pending major repairs or complete replacement.

Your community, too, can benefit from the use of Bitumuls Slurry Seals. For further information on Slurry Sealing... or for the complete Bitumuls/Life Saver story... call our nearest office.



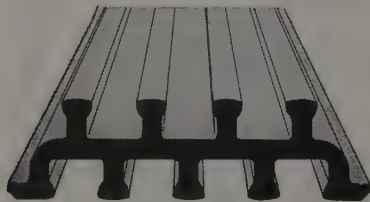
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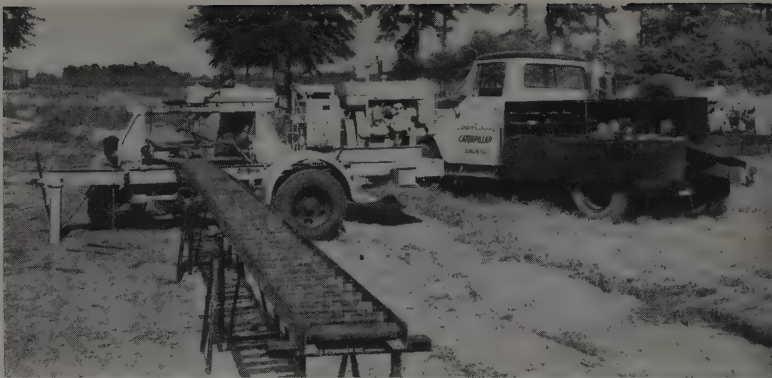
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PORTABLE hydraulic track presses, such as the one shown here, greatly reduce the amount of time and trouble needed to turn pins and bushings. Rotating pins and bushings doubles their life. They should never be lubricated.

only one of the quickest ways to shorten roller life, (particularly that of the front roller) but it is also a fast way to reduce the life of the idler bearings and other track parts. The track-type tractor is a rough, rugged piece of machinery; but, why heap on abuse? After all, it proves nothing except a disregard for economy and down-time.

Another damaging practice is "spinning" track. This practice provides no more drawbar pull than a spinning rubber tire provides rim pull. But when the rubber is burned off a \$3,000 tire the practice is soon halted. While the spinning of track doesn't usually draw the same immediate response, it, too, is "burning off dollars of iron." This is especially true when track is allowed to churn, digging in and over abrasive material. A little load adjustment or different approach can save that "burned off" track life.

When a tractor is operated in mud, clay or gumbo, material sometimes packs around the rollers, and usually builds up on top of the guards and around track carrier rollers. In freezing temperatures, packing causes even more trouble. When mud packs around a track roller or a carrier roller, it tends to "freeze" the roller and prevent it from rotating freely. Once roller rotation is stopped, the track links slide over the roller surface causing rapid wear to both the roller and the track surface. In a very short time, flats are worn on the roller. It takes engine horsepower to accomplish this rapid wear, so profit is actually lost in two ways.

It's easy to correct this problem. Drive the tractor to dry ground. Run forward and backward to work off excess mud. If water is handy, a wash-down of the track group will help. If no such facilities are available, a little time spent (periodi-

cally) in "spade work" to remove the mud will be a good investment.

Sometimes a tractor will freeze to the ground overnight after operation in cold, muddy conditions. To prevent track damage when breaking it loose, clean off as much mud as possible. A common method of avoiding a freeze-in is to park the tractor on planks, logs or even brush to keep the tracks up out of the mud.

It is also a good idea to keep an eye on track adjustment when operating in mud, and sand. These materials pack and tighten tracks, robbing engine horsepower, and subjecting track parts and final drives to great stresses. It may be necessary to loosen the track adjustment during muddy operation to provide the desired slack.

Operating in snow presents much the same dangers as operating in mud. It is essential that the track group be kept as clean as possible and the rollers kept free to rotate.

General track maintenance

Any successful maintenance program is based on preventing trouble before it starts. Maintenance should be organized so that every man knows his exact responsibilities. Certainly, the operator should play an important part in this program. He, more than anyone, is in a position to know when a machine is not performing as it should. He should promptly report any condition which requires repair or adjustment to the designated maintenance supervisor.

The first item on any maintenance program for the track group is adjustment. Tracks should be inspected daily for proper adjustment. If tracks are allowed to run too loosely, they will sag between the points of support. This causes

additional movement and wear between the contact surfaces of pins and bushings. When a tractor with loose track adjustment is driven at high speeds, the track can be thrown off. A thrown track can be expensive both from the damage to its parts and from the down-time involved.

Tracks that have to be adjusted with a wrench are rarely overtightened. But, with tractors equipped with hydraulic track adjusters the opposite is true. All that is needed to adjust this type of track mechanism is a few shots from a lever-type grease gun. The hydraulic pressure puts the track in tension. A few extra shots and the track can be overtightened. Overtightened tracks can cause overheating of pins and bushings. These parts can become hot enough from friction to temper the heat treated metal and reduce its hardness. Loss of hardness increases wear and cuts service life.

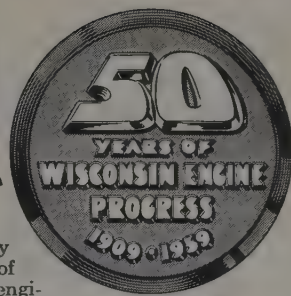
Many tractors are equipped with two-position idlers that may be placed in a high or a low position. For most applications, idlers should be in the high position. However, when a tractor is equipped with heavy front mounted equipment, change the idlers to the low position.

When the tractor is equipped with a bulldozer, for example, better balance is attained with the idlers in the low position. The track shoes under the idlers are then in the same plane as the shoes under the rollers. Track shoe grousers, however, are subjected to greater wear since there is a scrubbing action on each grouser as it passes under the idler.

Another major part of any maintenance program is lubrication. Machinery manufacturers continually strive to simplify lubrication requirements. There is always risk in establishing any lubrication interval. If intervals are too frequent, there is always the danger of over-lubrication. Blown seals and damaged rollers are usually the consequences. If intervals are too far apart, there is the tendency to forget about those parts. Most manufacturers agree that a middle-of-the-road recommendation is best. This minimizes the danger of over-lubrication, but still points up the need for periodic servicing.

There is only one general rule for track roller lubrication — FOLLOW THE MANUFACTURER'S RECOMMENDATIONS. A manufacturer specifies the interval for lubrication of track rollers, idlers

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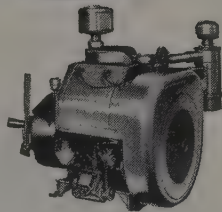
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CONSTRUCTION



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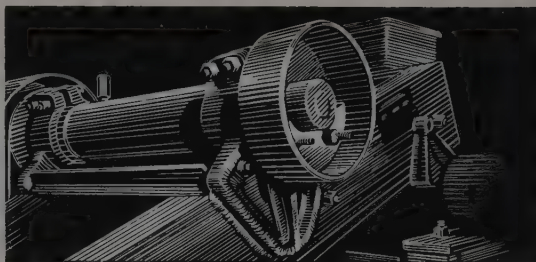
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Why you'll OK Overstrom



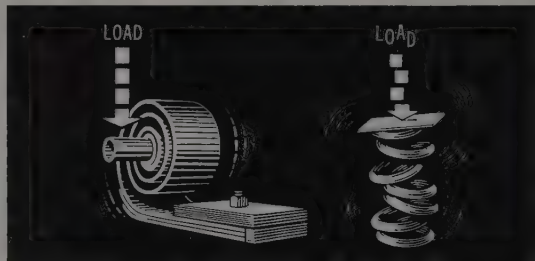
THE BEST VIBRATOR UNIT ASSEMBLY

A precision-machined, cartridge type, sealed unit with two double-row spherical roller bearings running in oil (not grease) and mounted in a one-piece seamless steel tube. The entire assembly is mounted in heavy cast steel split-clamps which are welded to the screen body — yet the cartridge unit is easily removed within minutes!



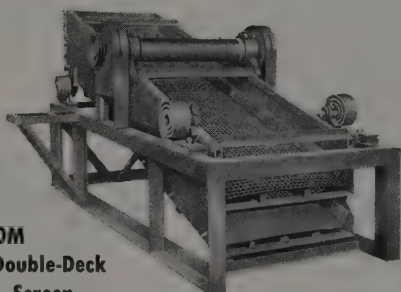
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VIBRATING SCREENS

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See manufacturer's detailed listing in Yellow Section

WESTERN CONSTRUCTION—January 1959

and carrier rollers in average conditions. Sometimes the lubrication interval must be reduced when the tractor is operating in deep mud or water. Since all lubricants are not the same, the manufacturer also specifies the type of lubricant that will provide the best service in its product. These recommendations are backed up by years of research and field testing.

Most manufacturers' lubrication instructions are illustrated and explicit. When followed, they greatly assist in getting the most from a machine. However, these instructions can't eliminate the possibility of introducing trouble. Contaminated lubricants, fittings that aren't really clean before being used, over-lubrication or underlubrication are major causes of shortened service life.

When a hand operated grease gun is used to apply lubrication to roller and idler bearings, apply only the amount needed to feel a slight additional resistance on the gun handle. Any pumping after this resistance is felt will create enough hydraulic pressure to damage the seals. If pressure can't be built up it usually indicates a damaged seal. Damaged seals should be replaced immediately.

Power operated pressure lubricant dispensers deliver lubricant at such high volume and pressure that a relief valve should be installed in the lubricant line to prevent seal damage. Be sure the relief valve has the proper initial pressure setting. It's also a good idea to periodically recheck that setting. Many rollers have gone without lubricant because a relief valve was unseating at too low a pressure.

Under no circumstances should pins and bushings be lubricated. Dirt combined with oil makes an excellent grinding compound. Lubrication of these parts will greatly increase the rate of wear.

The daily inspection should include a critical look at track hardware. Bolts and nuts on the track group should be checked regularly. Since most track parts are subjected to continued stress and shocks, loosened nuts and bolts should be retightened immediately to prevent shearing, loss or damage to the part which they secure.

Regular inspections will reveal minor trouble before it can become a major service problem provided, of course, that prompt maintenance is effected. Guards should be repaired when first found to be damaged, since a damaged guard usually offers little protection.

Inspection will reveal major problems too. For example, if an idler is misaligned, it will be evident when the track links or idlers are examined. A misaligned idler will cause wear on the pilot rim section of the idler, wear on the sides of the track links and wear on the roller flanges. On most tractors it is a relatively simple matter to adjust idler alignment with shims located beside the idler bearings.

When a track roller frame member has been hooked on an obstacle and bent slightly it will cause track misalignment. If the idler cannot be adjusted to the proper alignment, frame members should be straightened or replaced before they cause serious damage to the other track parts.

Turning of pins and bushings can help reduce replacement costs. As pins and bushings wear, the track becomes longer and track adjustment is necessary. When the limit of track adjustment is reached, pins and bushings should be rotated 180 deg. This will nearly double the service life of these parts.

The master pin and bushing should not be used as a guide to determine the wear on the other pins and bushings in the track chain since wear at this point is more rapid. Adjacent pins and bushings, extending along the track on either side of the master pin for one-half the circumference of the sprocket, usually exhibit more wear than the remaining pins and bushings. Experience has shown that periodic replacement of the master pin reduces wear on the pins and bushings close to the master pin.

Never operate a tractor with bushings that are broken. This results in accelerated wear to all other track parts. Additionally, track with badly worn pins and bushings causes jumping of the track and rapid wear on the sprocket teeth.

All track rollers under a tractor do not wear at the same rate. It is a profitable practice to switch rollers in the same manner that tires are switched on automobiles. Changing the position of rollers distributes the wear and extends the service life of the roller group as a whole. It is best to change the position of rollers about midway in their normal expected service life. Sprockets and idlers can also be switched to equalize wear. This should also be done at the midpoint of their service life.

The reconditioning of track and its related parts is a sound invest-

ment. When shoes, rails, idlers, rollers and sprockets are rebuilt before they have reached the stage where it is uneconomical to recondition them, these parts will give good performance.

In recent years, dealers have developed many new methods designed to cut costs and down-time. Under one dealer's so-called "loaner" plan, track groups are loaned to a tractor owner while his track group is being rebuilt in the shop. According to the dealer, savings of up to 60% are possible when track is reconditioned instead of being replaced. The plan also cuts down-time from days to minutes.

Another equipment dealer offers firm quotes on buildup work. Roller, idler and track reconditioning is based on wear. Rollers, for example, are examined to determine the increment of wear. Worn rollers are then exchanged for rebuilt ones. This way the customer only pays for the reconditioning of his own rollers and cuts the time his machine is out of service.

Sometimes, of course, parts cannot be economically rebuilt. Track rollers that show excessive wear or have enlarged or bellmouthed bores, distorted capscrew holes, loose rims, or broken flanges, can make rebuilding an unsound investment. In such cases, a new part specified and built by the manufacturer should always be installed.

To insure quality workmanship roller shells should be well cleaned. The welding wire used should meet as close as possible original part specifications for hardness and impact resistance. Crawler tractor manufacturers have developed standardized recommendations.

Conclusion

Track costs can be cut through aggressive productive maintenance. Review existing procedures. Does the tractor have the right track shoes and attachments for the job? Is it being operated properly? Is each member of the organization aware of his responsibilities for day-to-day maintenance? Is lubrication being carried out in accordance with manufacturers' recommendations? Are sprockets, rollers and idlers being switched to equalize wear? Are pins and bushings being turned when the limits of track adjustment are reached? Are track and related parts being rebuilt at the most economical time? If the answer to all these questions is yes, the machine owner can be sure he's getting the track life he paid for.

NEW LITERATURE

To obtain free copies of literature described in this section, circle the corresponding numbers on reply postcard.

Does a private plane pay?

Ever wondered about the economics of owning a small business plane? Complete data on the cost of ownership and operation of small planes are given in a large 70-page manual published by Cessna Aircraft Co. The manual, printed with large, easy-to-read type and fully illustrated, goes into great detail on how to figure costs. A series of graphs shows the comparison between automobile, commercial airlines, and private plane, and speeds between various points in the country. Detailed work sheets are available which will determine for you the cost per mile of automobile, air-lines, and private plane on any particular trip. . . . Circle No. 161

Prestressed News

"Prestressed News" is a new service provided by Ben C. Gerwick, Inc., to help keep engineers and contractors posted on new developments in the prestressed concrete field. The folder will be published periodically and will briefly present new ideas, new uses, design data, and other information of general interest of progress being made in the prestressed concrete industry in California. For example, the next issue will contain discussions on fire tests, beam and joist construction, PCI committee work, and a review of the European-Russian report. . . . Circle No. 162

Versatile "Moto-bug" explained

A 4-page bulletin just released described the material handling features of the Kwik-Mix model S-10 Moto-Bug. Illustrations show how the unit can be converted from fork lift to drum handler, platform carrier, utility scraper and 10 or 15 ft. capacity hopper carrier. Safety features are also described. Kwik-Mix is a division of Koehring Co. . . . Circle No. 163

Mobile soil test lab

Engineering testing programs for soils explorations, soils studies and quality control of concrete and asphalt can be carried out with a line

of mobile testing laboratories described in a new brochure announced by Soiltest, Inc. The brochure is well illustrated and shows the latest lab layouts and combinations of testing equipment, and breaks down component testing systems and various test apparatus for soils, concrete and asphalt. Diagrams show groupings of the apparatus needed to perform various ASTM tests in all three fields. . . . Circle No. 164

Wire rope "bluebook"

A finger-tip index makes readily available 190 pages of wire rope information in MacWhyte's "blue book" of wire rope. You'll get answers to



such questions as: What is 6 x 19 classification? Why and how does Lang Lay differ from regular Lay? What is peening, rated capacity, metallic core, cable-laid? You'll have information on inspection, correct spooling, construction, sheave maintenance, multiple-rope reeving, swaged fittings, the use and abuse of wire rope, etc. The book is free to wire rope users from the MacWhyte Wire Rope Co. . . . Circle No. 165

Bituminous distributor for small jobs

Littleford Bros., Inc., manufacturers of blacktop equipment, announce publication of a folder describing the Spray Chief bituminous distributor. The unit was designed with the small contractor in mind, for driveways, parking lots, and secondary roads. The 6-page

publication explains that three types of burners are provided: kerosene, fuel oil, or propane. Pumps of 100- or 200-gal. capacity are available for 10 or 20 ft. of bar. Three different sizes of engine are available to match the type spray bar and size of pump. Very complete specifications on the distributor are given, and photographs of the various features are included. . . . Circle No. 166

Dredges described in illustrated bulletin

Six basic types of dredges are described and illustrated in a 12-page illustrated bulletin, offered by the Ellicott Machine Corp. Photographs, profile line-drawings and text material detail the grapple dipper, bucket, plain suction, self-propelled hopper and cutterhead pipeline types. Also explained are the compact Dragon models, Ellicott's line of standardized portable hydraulic dredges. Additional information is provided on numerous applications, such as highway construction, land reclamation, canal digging, flood prevention, river improvement, mosquito control, and sand and gravel production. Also included is description of a complete line of special equipment, including dredge tenders, skid-mounted pumps for mining, ball-joint cutters and winches. . . . Circle No. 167

Powerful hydraulic excavator

The Warner & Swasey Hopton line of hydraulic excavators is described in a colorful, well illustrated 12-page brochure. The backhoe type excavator ranges in size from 1/8 to 1/2 yd. Full specifications, working ranges, lifting capacities, etc., are given on each model. . . . Circle No. 168

Bulletins on 6-cylinder engines

Five 2-page bulletins describe Hercules 6-cylinder, L-head gasoline engines. Each bulletin includes photos of the engine along with basic installation diagram, general data, power chart and detailed specifications. The engines described in the bulletin range in size from Model QXLD, a 91-hp

unit with 237.6-cu. in. piston displacement, to the Model HXE, a 226-hp. engine with a 935-cu. in. piston displacement. **Hercules Motors Corp.** . . . Circle No. 169

Single acting pile hammers

A comprehensive bulletin has been published containing engineering data on the selection and application of single-acting pile hammers, using steam or air, with rated striking energy from 7,260 to 30,225 ft. lb. Information is given on hammer rating, selecting required size, safe bearing load, adaptability for driving, bases, plates, driving heads, head blocks, etc. The manufacturer and publisher of the bulletin is **Vulcan Iron Works.** . . . Circle No. 170

Line of scaffold hardware

A 4-page catalog presents the complete line of scaffold hardware manufactured by **Superior Scaffold Co.** The publication contains many erection tips and job applications of the company's adjust-

able trestle, mortar board stands, shack jacks, flat backs, sliding ledger, and magnesium feather rod.

. . . Circle No. 171

Six sizes of wheel tractors

Wheel tractors in six power sizes ranging from 12 to 72.5-hp. are fully described in a 16-page catalog released by the **International Harvester Co.** The catalog illustrates and gives special features and specifications for each tractor. Emphasis is given to the new 6-cylinder engines used on the larger tractors, torque amplifier drive, independent power take-off, larger and more powerful internal hydraulic systems, and new hitches.

. . . Circle No. 172

Lightweight crane from Sweden

A low-cost, easy to operate, crane which elevates, turns, and extends hydraulically, which can be mounted on a flatbed or dump truck, is described in a new 4-page folder. Called **Fococrane**, the unit can lift up to 1½ tons, and swing 270 deg. Lifting height is 19½ ft.; weight is 850 lb. It mounts in a 12-in. space between cab and truck bed and swings out of the way

when not in use. Hydraulic leg prevents stress on truck frame and springs. The bulletin includes a chart showing working ranges. Importers of the Swedish crane are the **McCullough Crane & Hoist Co.**

. . . Circle No. 173

Throw-away rock bits

Two new bulletins give all the data on the popular **Lid-dicoat** rock bits which are being used on many Western projects. The bits are used to destruction without the need of resharping. The bulletins describe and illustrate the construction and proper use of the bits, which come in two models, steel and carbide-insert. Instructions are given for selecting the proper bit for various types of rock drilling conditions. Manufacturer of the one-use bit is the **Western Rock Bit Mfg. Co.** . . . Circle No. 174

Euclid-Easton rear dump trailer

A 4-page bulletin is available describing the **Euclid-Easton S-12** rear

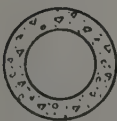
PRECAST PRESTRESSED CONCRETE FOR PILING - BRIDGES - BUILDINGS - MARINE PROJECTS



There are two Gerwick prestressed concrete plants in California to serve you!



In addition to our plant in Northern California, our plant in Los Angeles can furnish projects in Southern California and Arizona with the same high quality products at economical prices.



Our experienced Engineering staff is also available for consultation and assistance in the design and use of prestressed concrete. Whenever your project requires precast prestressed concrete—wherever it may be—we hope you will call us.

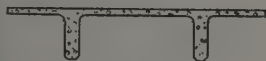
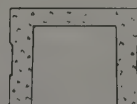
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SAN FRANCISCO

LOS ANGELES

Main Office: 417 Market Street, San Francisco, SUtter 1-7104

MEMBER,
Prestressed Concrete Institute



. . . for more details, circle No. 88 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

It's NEW!

FLAT-BRAIDED SLINGS

Manufactured By

PACIFIC WIRE ROPE!

Contractors! This NEW All-Purpose FLAT-BRAIDED SLING is made of multiple parts of 6x19 H.C. Regular Lay Pre-formed SUPER STEEL construction. Its top quality insures safety for your every lifting need. Can be plastic coated for delicate handling.

Designed
for

**HEAVY
DUTY!**

Celebrating
Our
50th Year

Pacific Flat-Braided Slings are made in the largest rigging loft on the Pacific Coast, with complete facilities for standard splicing, swaging and plastic coating of slings, fittings, etc.

Wire for more information to:

PACIFIC
WIRE ROPE COMPANY
"Equalized"

1840 East 15th Street
Los Angeles, Calif. Richmond 9-7511

dump trailer. The unit weighs 22 tons and has a variable wheel base. Heaped capacity is 16 cu. yd., struck is 14.2 cu. yd. The bulletin includes data on weight distribution, performance in various gears, tractor-trailer dimensions, tires, frame, brakes, body, hoists, and interchangeability. The rear dump trailer is made by the Easton Car & Construction Co.

... Circle No. 175

Rim and wheel manual

A 94-page catalog of pictures, information and engineering data on Goodyear Tire & Rubber Company's rims, wheels, tools, and rim accessories has been issued by the firm's metal products division. Text includes information and pictures on rim research, step-by-step procedure for mounting and demounting rims, and operating instructions for using hydraulic tools. The manual is very well illustrated and contains a wealth of information on maintenance and operation of rims of all types. The manual is completely indexed, contains several blank pages for notes, includes detailed specifications on rims and tools, and has a full list of Goodyear distributors.

... Circle No. 176

Catalog of drilling equipment

Carbide drill bits, drill rods, air tool accessories, moil points, clay spades, asphalt cutters, etc., are fully described in a 24-page catalog issued by Brunner & Lay. The catalog includes suggestions as to how to make carbide drill bits do more work, last longer, and cost less, plus instructions for sharpening and hardening moil points, digging chisels, etc. The catalog includes detailed specifications on the many tools and accessories and the company's large line of drilling and digging equipment.

... Circle No. 177

Folder describes portable bin

Portable bins which can increase plant output by eliminating starts and stops while waiting for trucks are described in a new folder issued by Pioneer Engineering. The basic unit stores 6 cu. yd. of material with extensions available to increase capacity to 8 or 10 yd. The bulletin shows how the bins are mounted on

a pneumatic-tired chassis and are available with either mechanical or electric on-plant power so that the units are completely independent of the rest of the setup. The bulletin explains other features and includes complete specifications and a photo and drawing of the unit.

... Circle No. 178

Curb road, and airport forms

Superforms, a line of steel forms for curbs, curbing gutters, sidewalks, roads and airports are fully explained in a 4-page folder just produced by the manufacturer, Superforms Sales Co. The all-steel forms are illustrated and described in a factual manner.

... Circle No. 179

Koehring crane bulletin

The complete range of Koehring rubber-mounted cranes, from 15 to 45 tons lift capacity, is presented in



a new 4-page bulletin just released. Printed in two colors, the bulletin shows 11 photos of the highly mobile equipment, with commentary on each size.

Illustrated are 15, 25, 35, and 45-ton lift capacity truck cranes. All models are convertible for draglines, clamshell or bucket work.

... Circle No. 180

Folder on the Hy-Hoe back hoe

An all hydraulic back hoe, the Model 3/8-yd. Hy-Hoe, is described and illustrated in a 4-page folder released by the manufacturer, Hydraulic Machinery Co. The folder points out that the machine costs only slightly more than a half-swing rig, and any used truck of 2½ tons or more will carry it. Digging depth is 14 ft. and loading height is 12 ft. 8 in. Weight, less ballast, 9,000 lb.

... Circle No. 181

... for more details, circle No. 89

See manufacturer's detailed listing in Yellow Section

Maxi specification bulletins

Price lists and specification bulletins for four Maxi truck carrier models are now available. The models described are for 35, 40 and 50-ton capacity cranes. All of the trucks are designed so that the rated capacity of the upper works may be handled at a practical 15-foot radius. All essential engineering data are given for the models described. . . . Circle No. 182

Compaction made easy

Looking for an easy-to-understand discussion of the rapidly growing field of earth compaction and compaction equipment? Then send for the pamphlet just published by the Galion Iron Works & Mfg. Co. The non-technical 16-page booklet deals with the fundamental problems encountered in the efficient compaction of various materials, and the correct application of the many types of equipment now available. It will be especially helpful to anyone who has had no previous opportunity to study the subject of soils and materials compaction. A very helpful and extensive glossary of terms is included. All types of compaction equipment are discussed, including vibratory. . . . Circle No. 183

Wheel tractors described

A 2-color folder explaining the features of the new Caterpillar W21 and DW20 wheel tractors has been published by the Caterpillar Tractor Co. Emphasized is the Super Turbo engine which results in higher work speeds and increased torque rise. A specific construction job is analyzed. Information is included on Cat 456 and 470 tractors which show how the operating characteristics are matched to the new wheel tractors. . . . Circle No. 184

Self propelled concrete cutters

Folders available from the Felker Manufacturing Co. describe its line of concrete cutting machines. The rated weight of the models described ranges from 870 lb. to 1,150 lb. Full specifications and a list of operating characteristics and advantages of the self propelled ma-

chines are given in the folders as well as information on segmented diamond blades. . . . Circle No. 185

Brochure on drill-anchors

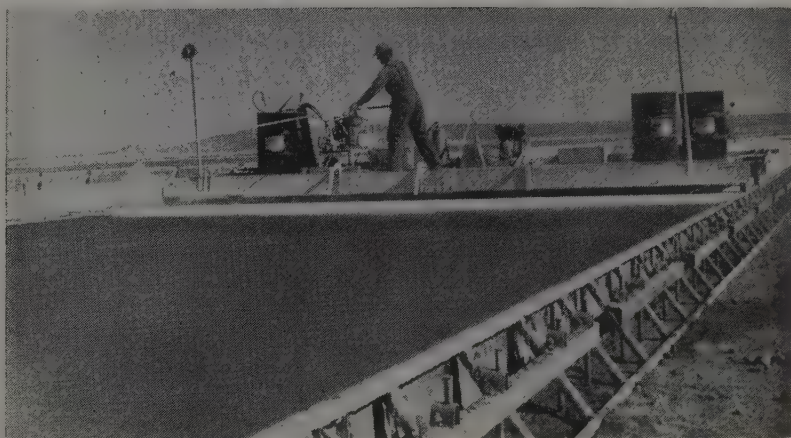
"Gold Digger" is the name given to a new line of gold colored concrete drill anchors manufactured by Polis Manufacturing Co., Division of Gregory Industries. The brochure provides information on installation as well as complete specifying data. Five types of anchors are cataloged, Special Flush, Rod Hangers, Tie Wire, and Stud-Head.

Installation is with electric or air hammer. The fifth type is a Flush Anchor installed by hand hammer only. Range of sizes is from 3/16 in. to 7/8 in. . . . Circle No. 186

Folders on Essick pumps

A series of folders and specification sheets is available describing the line of pumps manufactured by the Essick Mfg. Co. The folders include descriptions of Essick self-priming centrifugal pumps, self priming high pressure pumps for special needs, diaphragm pumps,

CONCRETE CURING



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MEMBRANE CURING COMPOUNDS



- 1 HUNT PROCESS CLEAR—For natural concrete color.
- 2 HUNT PROCESS "TILT-UP"—For curing and bond breaking in TU or precast construction. Paintable.
- 3 HUNT PROCESS BLACK—Cures, waterproofs. Blended asphalts with pigments in petroleum solvent.
- 4 HUNT PROCESS PIGMENTED—White or gray. Pigments in curing compound produce heat reflecting film.

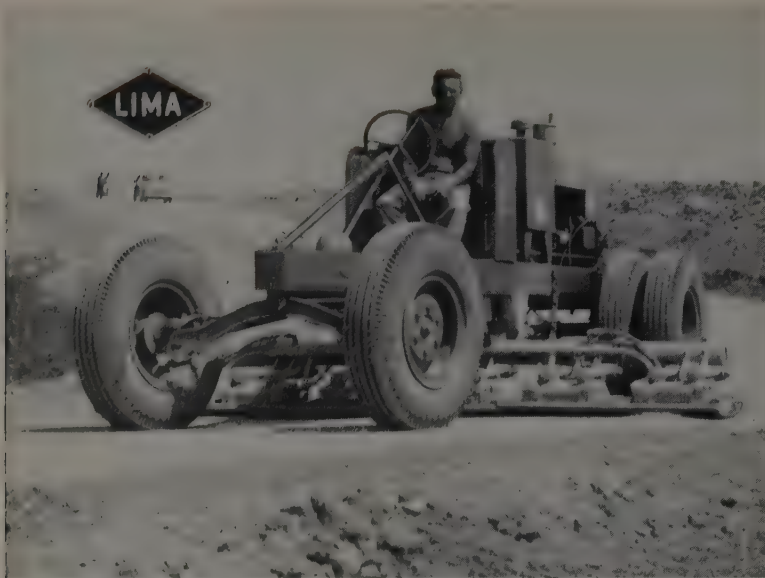
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SALT LAKE CITY • H. G. Fenton Material Co., **SAN DIEGO** • Charles R. Watts, **SEATTLE**

"Spray it and forget it"

HUNT PROCESS CO., INC.

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PLeasant 3-2346



One of six Lima Roadpackers on Illinois East-West Tollway Project pauses here for the photographer during vibratory compaction operations on access road.

Six LIMA Roadpackers deliver fast high-density compaction to speed Illinois Tollway job

"We tried all the vibratory type compactors before buying our first Lima Roadpacker in 1957. It proved without a doubt that high-density compaction need not be a slow process," says CKG Associates, Hinsdale, Ill.

Roadpackers meet accelerated schedule

"As our work on the Tollway progressed, we bought additional units to maintain our accelerated production schedule. Today we own six Lima Roadpackers. They speed back and forth to various sections of the job at 30 mph to compact vast quantities of base material as soon as it is spread.

"Reliable compaction, big production, and amazing mobility are the reasons we chose the Roadpacker as our standard compaction tool!"

The Roadpacker is equipped with six shoes, each producing 2200 vertical vibrations per minute to compact from bottom up without shoving action. Fills

all voids for high-density consolidation. Entire vibration system completely sealed from dirt. Unit is designed for fast and easy maintenance.

Compaction width variable

Outside vibratory shoes fold back easily for road width clearance to travel without special permit. As necessary, 4, 5 or 6 shoes can be used to vary width of compaction. Roadpackers compact with equal precision forward or in reverse.

You save when you lay fewer courses . . . compact in fewer passes. Lima Roadpackers will produce required density of suitable material in courses up to 12 in. Two-shoe widener attachment available . . . no need for special trench roller.

Get all the facts about economical, high-speed vibratory compaction with the Lima Roadpacker. Write today for bulletin or see your Lima distributor.

Reno Equipment Sales Company, 1510 W. 4th Street, Reno, Nevada; Feenaughty Machinery Company, 112 S.E. Belmont Street, Portland 14, Oregon; Feenaughty Machinery Company, 600 Front Street, Boise, Idaho; Evans Engine & Equipment Company, 4300 11th Avenue, N.W., Seattle 7, Washington; Bay Cities Equipment, Inc., 2792 Cypress Street, Oakland 7, California; Bay Cities Equipment, Inc., 1178 West San Carlos Street, San Jose, California; N. C. Ribble Company, 1804 North Fourth Street, Albuquerque, New Mexico; Smith Booth Usher Company, 2001 Santa Fe Avenue, Los Angeles 54, California; Modern Machinery Company, Inc., East 4412 Trent Avenue, Spokane 10, Washington; Shasta Truck & Equipment Sales, South 99 Highway, Redding, California; Western Machinery Company, 820 North 17th Avenue, Phoenix, Arizona; Western Machinery Company, 1111 West St. Mary's Road, Tucson, Arizona; Evans Engine & Equipment Co., Inc., Post Road—Box 884, Anchorage, Alaska; Faris-Moritz Equipment Company, 5700 Colorado Blvd., Denver, Colorado; Western Machinery Company, 2300 South Main Street, Salt Lake City 15, Utah

LIMA Construction Equipment Division, Lima, Ohio
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See manufacturer's detailed listing in Yellow Section

and electric and belt driven priming pumps. Each of the main models is illustrated and described with tables of engineering data.

. . . Circle No. 1

Lima 50-ton truck crane

The design and operating features of a 50-ton, 4-axle truck crane are presented in an 8-page catalog published by the Construction Equipment Division of Baldwin Lima-Hamilton Corp. Illustrated and described are the carrier construction, front and rear outrigger boxes, hydraulic power steering, rotating assembly, independent planetary boom hoist, main machinery, folding gantry and pin connected boom. . . . Circle No. 1

Description of Gradall

The versatile Gradall, the machine with the hydraulic telescoping boom and wrist action, is completely covered in a new 20-page, 3-color brochure published by the Warner & Swasey Co. The hydraulic power system is explained with drawings and photographs and the many possible maneuvers with this unusual piece of equipment are described. Data are given on crawler and rubber tired carriers. The machine is shown doing such jobs as ditching, ditch cleaning, backfilling, sloping, excavating, and removing pavement. One section describes and pictures 20 attachments which can be used with the Gradall. Complete specifications are given as well as diagrams showing working ranges and lifting capacities. . . . Circle No. 18

Facts on corrugated metal drainage structures

"Brief Factual Data on Corrugated Metal Drainage Structure" is the title of a new 6-page bulletin from Armco Drainage & Metal Products, Inc. It contains data on products, sizes, gages, weights, loadings with useful tables and illustrations. . . . Circle No. 1

Glazed plywood form panels

A catalog on PlyGlaze overlay plywood concrete form panels has been released by St. Paul & Tacoma Lumber Co. The catalog describes PlyGlaze performance on jobs

airing smooth concrete, and its
 st cutting potential and form de-
 sign for 25 or more re-uses. It
 cludes detailed information on
 sts, with breakdown of costs per
 -use, re-uses, sizes, specifications,
 ource of supply, and a valuable
 ction on application data.

... Circle No. 191

Ford trucks for 1959

Full-color brochures are
 now available describing the
 1959 line of Ford Motor Co.
 trucks. Described are light-
 duty, 4-wheel drive trucks,
 medium and heavy duty con-
 ventional trucks, pick-up
 trucks, heavy-duty tilt cab
 trucks, tandem axle trucks
 and heavy duty trucks. The
 brochures are very complete
 and contain full specifica-
 tions on the engine, axles,
 tires, and all other essential
 features. Drawings and cut-
 away illustrations describe the
 various advantages of this
 popular truck line.

... Circle No. 192

Data on steel tunnel liner plates

A 20-page publication available
 from Commercial Shearing &
 amping Co. covers steel tunnel
 liner plates. Besides giving the
 operties of the plates, the bro-
 ure also gives information on
 ow to specify them, and includes
 neral purpose load tables, tables
 iving suggested thickness of the
 er plates for use in tunnels
 nder railroads and highways, and
 agrams, tables and case histories
 nteresting liner plate applica-
 ons in tunnel and shaft supports.

... Circle No. 193

Steel and aluminum data

A section on aluminum has
 been added to the well-known
 pocket size Ryerson data book.
 The 256-page manual includes
 aluminum analyses, character-
 istics, mechanical properties
 and tolerances. The book in-
 cludes the usual sections on
 steel, such as machining and
 fabricating data, manufactur-
 ing practices and tolerances,
 rates, safe loads, ASTM stan-
 dards, compositions and prop-
 erties. Joseph T. Ryerson &
 Son, Inc.

... Circle No. 194



"Our LIMA 1250 Crane is really a brute for punishment"

says McCloskey & Co., Philadelphia, Pa.

A big Lima Type 1250 Crane owned by McCloskey & Co., noted Phila-
 delphia contractor, was used on their \$5,000,000 job in the heart of
 the Quaker City. Part of this project involved demolishing the century-
 old Chestnut Street bridge and adjoining seawall. Besides pulling the old
 piling out of the bank of the Schuylkill, the Lima had the job of driv-
 ing 1800 steel piles, 60 ft. long and weighing from 1½ to 2¼ tons each.

Job Superintendent Stanley Czapkewicz says: "Our Lima 1250 Crane
 is really a brute for punishment and has done an excellent job. I've had
 a lot of experience with Limas and know them to be outstanding ma-
 chines. The Type 1250 Crane more than lives up to expectations.

"Lima service means a lot too. When the crane was delivered, the fac-
 tory service man helped us with the unloading, then made sure that
 our operator knew exactly how to handle it. He has since made several
 follow-through calls. We also know we can count on our local Lima
 distributor for parts and service any time we need them."

There's a rugged, high-output Lima for every construction need—
 cranes (to 110 tons), shovels (½ to 6 cu. yds.) and draglines (variable)
 —crawler, truck and wagon mountings. See your nearby Lima dis-
 tributor. Or write Construction Equipment Division, Baldwin-Lima-
 Hamilton Corporation, Lima, Ohio.

Our Seattle Office: 1932 First Avenue South, Seattle 4, Washington; Our La Mirada Office: 14120 E. Rosecrans Ave.,
 La Mirada, California; Feenaughty Machinery Co., 112 S.E. Belmont Street, Portland 14, Oregon; Feenaughty Machinery
 Co., 600 Front Street, Boise, Idaho; Smith Booth Usher Company, 2001 Santa Fe Avenue, Los Angeles 54, California;
 Modern Machinery Co., 4412 Trent Avenue, Spokane 10, Washington; Acme Iron Works, 540 Culebra Avenue, San Antonio,
 Texas; M. C. Ribble Co., 1304 North Fourth Street, Albuquerque, New Mexico; Bay Cities Equipment, Inc., 2792
 Cypress Street, Oakland 7, California; Bay Cities Equipment, Inc., 1178 West San Carlos Street, San Jose, California;
 McCaraghan Supply Company, 529 Broadway, Eureka, California; Evans Engine & Equipment Company, 4300 - 11th
 Avenue, Northwest, Seattle, Washington; Evans Engine & Equipment Co., Inc., Post Road—Box 894, Anchorage, Alaska;
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 Machinery Company, 820 North 17th Avenue, Phoenix, Arizona; Western Machinery Company, 1111 West St. Mary's
 Road, Tucson, Arizona; Western Machinery Company, 2300 South Main Street, Salt Lake City 15, Utah

LIMA Construction Equipment Division, Lima, Ohio
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 See manufacturer's detailed listing in Yellow Section

Construction films available

THE NO. 933 TRAXCAVATOR, a 12-min. sound and color motion picture, shows how this versatile machine performs on a wide variety of jobs. Pointing up its advantages, the film shows the Traxcavator in action on all types of excavating and materials handling work. The film also demonstrates how the bulldozer blade, light materials handling bucket, and other attachments tailor the No. 933 to special applications. Showing of the film may be arranged through your nearest Caterpillar dealer.

A 16-MM, color-sound movie for operators of heavy-duty earth moving and mining equipment using the 9-speed, single-stick Fuller R-1550 Road-Ranger Transmission has been produced by Fuller Manufacturing Co. Fuller recommends that this film be shown to all operators for standardization of instructions on the use of this easy-to-shift transmission. The film may be shown by writing Fuller Manufacturing Co., Kalamazoo, Mich., or requesting a showing through local construction equipment dealers.

THE CONSTRUCTORS, a color motion picture with scenes showing various types of construction and highlighting the industry's need for engineers, prepared by The Associated General Contractors of America, is designed to stimulate interest of students of pre-college age in engineering and construction. Information may be obtained from AGC Chapters or from the National AGC headquarters, Munsey Building, Washington 4, D. C.

A NEW 16-MM, 20-min. color-sound motion picture, "A Matter of Record," produced by the Construction Machinery Division of Clark Equipment Co., highlights the use of Michigan tractor shovels in municipality work. To see the film contact your local Michigan distributor or write to Construction Machinery Division, Clark Equipment Co., P. O. Box 599, Benton Harbor, Mich.

THE BUREAU OF RECLAMATION announces the availability of a new documentary film "By Their Deeds." It is the story of the work of engineering specialists

in planning, designing, building and operating dams, canals, tunnels and power and pumping plants. Of particular interest to engineering students, but also of interest to technical and general audiences, prints of the 29-min. 16-mm sound-color motion picture may be obtained on loan from the various regional offices of the Bureau of Reclamation or by writing the Office of Commissioner, Attn.: 140, Interior Bldg., Washington, D. C.

AVAILABLE on free loan to schools, associations and other interested groups in Northern and Central California, by Calaveras Cement Co., 315 Montgomery St., San Francisco 4, is a new film, "Penny a Pound," which describes the manufacture of cement and follows its process all the way through to the finished product. It is in sound and color and runs 20 min.

POWER SHOVEL PRODUCTIVITY is a new motion picture produced by the Bureau of Public Roads. Based on extensive studies, the film highlights the job conditions that determine the yardage output of power shovels on highway grading work, and demonstrates how production is affected by the speed of dipper cycle, size of load, and frequency and duration of minor delays. Prints of the 16-mm, sound and color, 30-min. film may be purchased by contractors and other responsible organizations from Visual Education, Bureau of Public Roads, Washington 25, D. C. If desired, prints may be purchased at \$111.88 per copy.

A NEW 16mm sound and color motion picture on the Hyster D4 Hydraulic Backhoe is now available for viewing. This film explains the exclusive design and performance features of the backhoe that make it an ideal excavating machine for contractors and others interested in utility digging jobs down to 13 ft. below grade. Contact your Caterpillar-Hyster dealer, or write to Hyster Company, 2902 N. E. Clackamas St., Portland 8, Ore., to arrange a free showing.

PERLITE INSTITUTE has produced a new color sound movie on the design and construction of perlite concrete roof decks. The 20-min, 16-mm film, "Roof Decks Unlimited - With Perlite," is available without charge for showings to contractors, engineers, and other interested groups in the building industry. Write Perlite Institute, 45 West 45th St., New York 36, N. Y.

A LEADER in its field for more than 50 years, the Koehring Company has a success story to tell. It does this by means

of a new color, motion picture, "This Koehring." In less than 20 minutes, and yet with proper emphasis on the key factors in the company's success, the film gives a profile of the units that make up the Koehring organization: employee plants, research and development, testing plus use of equipment on the job. Of interest to general construction groups and college students seeking new careers, information on showing may be obtained from The Jam Handy Organization, 283 E. Grand Blvd., Detroit 11, Mich.

STEEL IN CONCRETE is a 16-mm sound and color, 38-min. film which covers the theory and use of steel reinforcing bars in concrete structures, released by Bethlehem Steel Corp. Actual laboratory demonstrations are conducted to show the effects of stresses and strains upon un-reinforced structures, interpreted and applied by the designing engineer and architect. This technical film may be secured free for group showings by writing Modern Talking Picture Service, 3 East 54th St., New York 22, N. Y.

A NEW 16-mm, sound, color film entitled "Run Crane, Run" is announced by The Shovel Co., Lorain, Ohio. Running time is 25 min. The film highlights design and operating features of the new Lorain shovel-crane, the 7-ton, 3/4-yd., Self-Propelled Lorain SP-107. This new concept in rubber-tire machines is shown as a fully convertible shovel, crane, dragline clamshell or hoe. Many on-the-job advantages are shown.

MEMO TO THE WINNING CONTRACTOR . . . Why Twins? is the title of a new 16-mm, color and sound movie released by Euclid Division, General Motors Corp. Filmed for the benefit of contractors interested in the trend of twin features operation of Euclid's Twin Power 24-yd. struck capacity TS-24 scrap and shows where, how, and when twin power can be put to work advantageously. It may be obtained by contacting Euclid Division, General Motors Corp., Cleveland 17, Ohio, or through Euclid regional offices.

IN ORDER TO SHOW HOW final grading can be done faster, easier and with greater economy, Caterpillar Tractor Co. has produced a new sound and color motion picture. Entitled "The Preco Automatic Blade Control," the 16-mm, 5-min. film describes a versatile attachment for No. 12 and No. 112 motor graders. Photographed under actual job conditions, the film illustrates the advantages of the control. Showing may be arranged through Caterpillar dealers, or by writing the Advertising Division, Caterpillar Tractor Co., Peoria, Ill.

CONCRETE 57, a film on outstanding concrete construction projects in the country during the year 1957, is now available for showing in the Southern California area. Filmed in both color and sound, this 17-min. film is suitable for engineering and architectural groups. It was prepared with the non-technical viewer as well as technical groups in mind. The film is available for showing without charge by contacting the Portland Cement Association, 816 West Fifth St., Los Angeles 17, Calif.

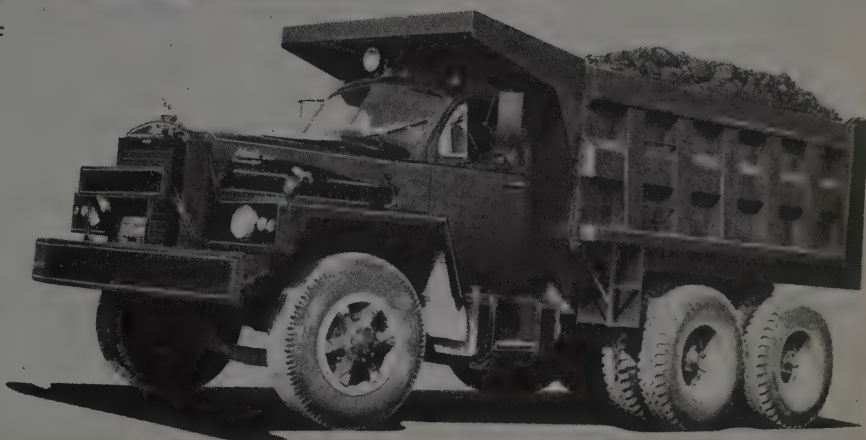


MACK B-40 and B-60 SERIES

PAYLOADS: Rear dumper, 5-10 cubic yards; mixer, $5\frac{1}{2}$ to $7\frac{1}{2}$ cubic yards (in six-wheeler models). **ENGINES:** 150, 170 and 205 h.p.—diesel; 150 and 185 h.p.—gasoline.

MACK B-80 SERIES

PAYLOADS: Rear dumper, 6-12 cubic yards; mixer, $7\frac{1}{2}$ to $8\frac{1}{2}$ cubic yards (in six-wheeler models...larger with special provision). **ENGINES:** 170, 205, 220 and 320 h.p.—diesel; 232 h.p.—gasoline.



in the job—

PROFITS ARE GREATER

MACK MODEL LRX—PAYLOADS: Rear dumper, 15 tons. **DIESEL** 170, 205 and 220 h.p.

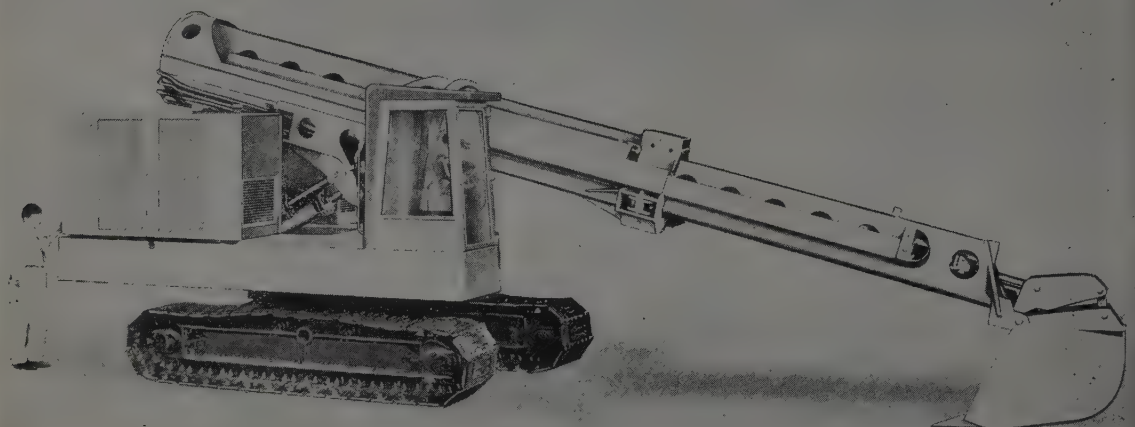


MACK MODEL LVX—PAYLOADS: Rear dumper, 22½ tons. **DIESEL** ENGINES: 320 and 335 h.p.



NEW EQUIPMENT

Obtain more information on these new developments in construction equipment by circling the corresponding numbers on reply postcard.



Gradall announces larger model of 1¼-yd. capacity and crawler mounting

A larger Gradall, rated at 1¼-yd. capacity with corresponding increase in other dimensions of reach and lift, is now available with either rubber or crawler mounts. The earth-moving machine was placed on display at the Gradall plant of Warner & Swasey Co., with field demonstrations and a trip through the manufacturing facilities. With its larger size, increased power and positive control over all movements, the new Gradall becomes a construction tool that will handle a much wider variety of jobs.

Carrying the identity of Model

G-100, the new machine has a standard digging depth of 17 ft. that can be easily increased to 23 ft. with boom extensions. The corresponding reach of nearly 31 ft. can also be increased to about 47 ft. with the same boom extensions. It has a complete circle swing, and power to lift up to 14,000 lb. The model has the ability to rotate the boom's long axis through 120 deg. with a 360-deg. boom tilt available as an optional feature.

Two 100-hp. diesel or gasoline engines provide a constant supply of hydraulic power through two

separate 3-section tandem pumps mounted directly to the engines. This provides six individual pump sections, one for each of the five arm movements, enabling the operator to work all of these five actions simultaneously with full power on each. The sixth pump is available for operating special attachments.

Power for the swinging action is supplied through two hydraulic motors, valved to provide two swing speeds. The shift is automatic, depending on the weight of the load, insuring the operator adequate power under all conditions. The operator's cab has been improved to provide comfort, efficiency and maximum visibility.

The new machine is interchangeable from rubber-tired carrier to crawler (see illustrations). The carrier has been designed and built by the company especially for this unit. It provides mobility and fast job-to-job moves. Torque converter drive and power steering are standard equipment. The crawler is the only fully hydraulic crawler of its size. Power is supplied through four hydraulic motors, two on each track. They are self-contained in the car body and provide a total 120 hp., providing speeds up to 1 mph. Bearing pressure on the 30-in. crawler tracks is only 7 lb. per sq. in. A variety of different sizes and types of buckets are available.

... Circle No. 195

Clement Dump-Trailers

MAIN OFFICE

Louisiana Bank Building,
Shreveport, La.

PLANT: P. O. Box 807,
Minden, Louisiana

WEST COAST

402 W. Foothill Blvd.
Azusa, California

Distributors

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Adamsville

CALIFORNIA

Strange Truck &
Equipment Company
West Sacramento

COLORADO

Timpte Bros., Inc.
Denver

ILLINOIS

Archer Trailer and
Truck Sales
Chicago

IOWA

Hawkeye Truck
Equipment Company
Des Moines

KANSAS

Western Truck
Equipment Company
Kansas City

LOUISIANA

Transportation Equipment
Company
Baton Rouge &
New Orleans

MINNESOTA

Road Machinery &
Supplies of Duluth
Duluth

Road Machinery &
Supplies of Minneapolis
Minneapolis

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Swanston Equipment
Company
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OKLAHOMA

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Company
Oklahoma City and Tulsa

OREGON

Schetky Equipment
Corporation
Portland and Seattle

SOUTH CAROLINA

Carolina Equipment and
Parts Company
Columbia

TENNESSEE

United Road Machinery &
Supply Company
Memphis

TEXAS

Beckman Trailer Sales,
Inc.
Fort Worth

I. F. Nelis Associates
Houston

Western Trailer Company
Lubbock

UTAH

Transport Equipment
Center
Salt Lake City

WISCONSIN

Wisconsin Highway
Trailer Sales
Green Bay

CLEMENT DUMP TRAILERS

COPIED ...



... but not equalled

Many have tried, yet no one has ever been able to duplicate the roadability, speed and operating simplicity of the original Clement design.

Now available, from Clement in Cable-lift, Hydraulic-lift, and in two new Bottom-dump models, there is an original Clement dump trailer exactly sized to your hauling needs.

Check on the Clement line before you order your next unit. Clement Trailers have been copied ... but not equalled.

CLEMENT-BRASWELL, INC.

Shreveport, Louisiana
PLANT: Minden, Louisiana



Hydraulic-Lift
10 - 30 yd. cap.



Cable-Lift
10 - 30 yd. cap.



Bottom-Dump
10 - 30 yd. cap.



Dual Trailer
8 - 10 yd. cap.

... for more details, circle No. 95 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

Barber-Greene announces smaller plants

Designed to produce all types of bituminous mixes, and incorporating many features of the company's larger plants, **Barber-Greene Co.**, has announced two new asphalt batch plants of 1,000 lb. and 1,500 lb. rated capacities. Carrying the designation Model 890 and Model 891, both plants are of basic four-bin design and feature rugged construction, exceeding those of conventional plants. One of the outstanding



features is the Batchometer asphalt measuring system which combines accuracy with push button control. This system may be pre-set to deliver any amount of asphalt required for a batch. The meter, asphalt strainer and spray valve are all submerged in the hot asphalt to insure uniform temperature and unvarying accuracy. Plants have the Dyna-Mix pugmill featured on Barber-Greene larger units. A feature of the plant erection procedure is the use of special tapered pin and socket connections which guide each section into place and align all bolt holes. A complete scavenger dust system is included.

... Circle No. 196

Manitowoc adds a 3-yd. shovel

To extend its line of shovels and cranes, **Manitowoc Engineering Corp.**, has announced a new 3-yd. Model 3600 shovel. The unit is convertible to crane, clamshell and dragline operations. Model 3600 incorporates many features of modern design including a 3 stage torque converter coupled to a fast rugged engine equipped with the Manitowoc "Torque Limiting Tail Shaft Governor." It is this combination which permits the machine to take full advantage of its power and yet takes responsibility for restraining the torque when it might become harmful to the excavator. Only 14 gears are contained in the entire machine, with these gears turning only when working to reduce power loss. Mobility between jobs is accentuated by the self removing counterweight for reducing machine weight for highway travel. A low overhead clearance of 14½ ft. is possible because the gantry folds down flat on the cab, while the boom stretches out straight ahead.



With a special tread construction combined with direct power flow the model will climb 30% grades over any terrain.

A new Model 2300 has also been announced by Manitowoc in the 1½-yd. size for shovel and conversion to clamshell or dragline operations. One of the new features of this machine is the easy hydraulic-jack adjustment of the crawler drive. This is a feature patterned after the design of big machines and assures even crawler tension at all times. A central lubricating point reduces necessary service time. The model maintains a Manitowoc standard of simple design having only 11 gears in the upper deck machinery. With heavy machine capacity this model is economical and highly versatile for either small operations or large fleet work.

... Circle No. 199

Euclid rear dump of 22-ton size

Model S-12, with an overhung engine tractor and a variable wheel base semi-trailer, adds a new rear dump 22-ton unit to the line of **Euclid Division of General Motors Corp.** The tractor is powered by a 218-hp. diesel and equipped with a 5-speed transmission pro-



viding top speed with full payload of 22.6 mph. Tractor and trailer tires are 24.00 x 25 and are interchangeable. Designed as a complete unit with an Easton trailer the S-12 provides maneuverability that will work in close quarters and hydraulic steering enables the tractor to make a full 90-deg. turn. Dumping can be carried out under complete control by the operator as to body position. There is no sudden shock or jar when the body reaches maximum height or returns to its normal travel position.

... Circle No. 198

Roller from new company

Newly established in this field, Eskridge Equipment Co., has announced a self-propelled, multi-tired pneumatic compactor available in size range from 9 to 30 tons.

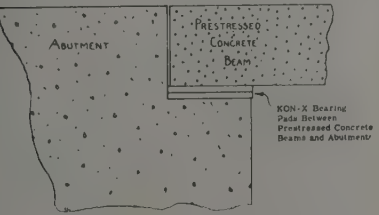


The vertical oscillating wheels provide equality in compaction. The organization is also offering sheeps-foot rollers and several other items of road building equipment. In the compactor shown, the driver has a swivel seat and can watch the wheels when close to curbs and walls. Simplicity has been featured to facilitate servicing. The ballast compartment is designed for water or gravel, and standard equipment provides a sprinkler system. Power is by Continental gasoline engine.

... Circle No. 199

Bearing pads for bridges

Combining asbestos fibers with synthetic rubber elastomer, Keady & Mattison Co., has announced the Kon-X bearing pads designed particularly for use in bridge construction, placed between prestressed concrete beams and the supporting abutments and piers. With their graphited surfaces in contact with each they reduce friction and stress



concentrations. They are unaffected by weather and can be used in all climates. In addition to this use they are also suitable for spacers in concrete bridge floors and to provide a satisfactory bearing under guard rails. In this position they act to prevent electrolytic action which might develop between steel decks and aluminum guard rail posts. The material is about 1/4 in. thick and weighs 2.5 lb. per sq. ft. It is available in 50 x 50 and 50 x 75-in. dimensions.

... Circle No. 200

How Simplex 10-Foot Forms Saved 25% on a Shopping Center Project

Like many contractors, a large Chicagoland firm* considered 10-foot forms too large and bulky for light commercial work and preferred to use various stacking methods. That was until the contractor discovered Simplex . . . the rugged, lightweight, 10-foot forms that helped him speed erection and lower costs on a recent shopping center project. The 90' x 44' x 12" foundation, required for the job, was set, poured, and stripped (in two stages) in just 72-man hours, employing 4 men. In spite of the 12" wall thickness and 10 foot height, *no walers were used* . . . just a few braces to prevent deflection and overcome wind conditions. All in all, the contractor reported a saving of over 25% in comparison with other forming methods on similar jobs. You, too, can make bids within reason and still make savings that turn into profit!

*Name on Request.

Shopping Center project in which Simplex Forms "set with ease," and the finished foundation was a "perfect wall" — straight, accurate, and smooth . . . as reported by the Chicago contractor.

A FORM FOR EVERY PURPOSE PLUS A COMPLETE LINE OF ACCESSORIES

Easiest to Set-Up and Strip . . . No Loose Hardware

- 1 1/2" Plastic Impregnated Plywood with thick outer plies that will not peel. Forms have been used over 200 times and still pour a smooth wall.
- All hardware firmly bolted to panels . . . means no on-the-job assembly. Exclusive, cam action locking levers draw panels tight . . . minimize seam marks and insure accuracy.
- Panels are lightweight. Full 2' x 10' panel weighs less than 100 lbs., completely fitted with six backing bars and locking levers.

10' x 2' 6 Wire

Rugged, heavy-duty forms for 9' and 10' commercial foundations. Easy to handle in spite of their size.

8' x 2' 6 Wire

Highly adaptable for alternate stacking with 4' forms on 12' and higher walls. Weighs about 78 lbs.

4' x 2' 3 Wire

Ideal for slab foundations or for alternate stacking with 8' forms. Weighs only 39 lbs.

THE WORLD'S FASTEST METHOD

Simplex

FOOT-A-MINUTE

forms

OF CONCRETE FORMING

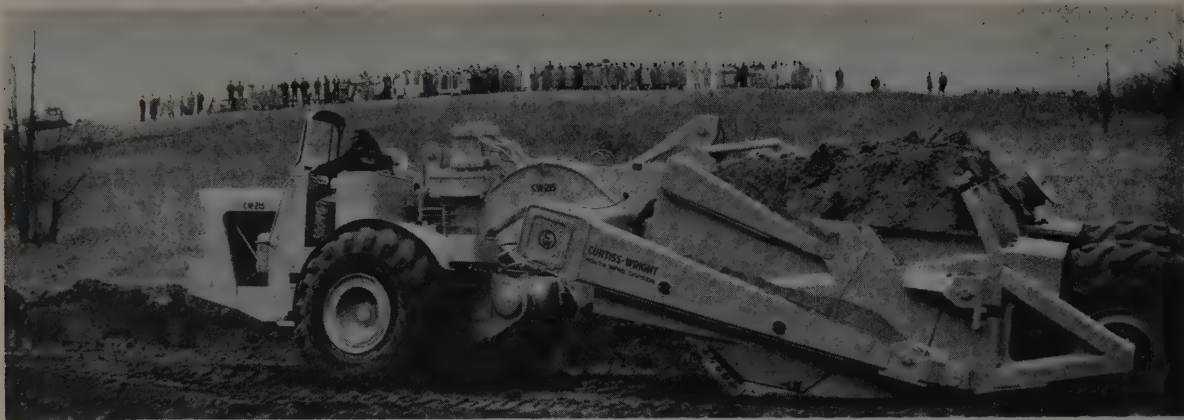
WRITE TODAY FOR ALL THE FACTS!

SIMPLEX FORMS SYSTEM, INC.

5609 Industrial Ave.

Rockford, Illinois

... for more details, circle No. 96 on Reader Service Postcard



Curtiss-Wright displays scraper line and the Unimog 4-wheel drive carrier



To display its line of scrapers and the "Unimog"—German-developed 4-wheel drive carrier and power unit—the South Bend Division of Curtiss-Wright Corp., put on demonstrations for the construction press and officials of South Bend on November 21.

All units of the extensive scraper line, both 2 and 3-axle units, were

loaded during the demonstration, with and without pushers. Executives of the company indicated that plans were under way for design improvements and possible changes in the line. At the present time, the pulled scrapers range from the small size at 10.5 yd. heaped, to the largest unit of 39.0 yd. heaped. The 2-axle self-propelled units vary

from the smallest scraper at 10.0 yd. heaped, to the larger size at 36.0 yd. heaped. The 3-axle unit has a heaped capacity of 27.0 yd. The line also includes two models for end dumping rated at 21 and 31 yd. heaped.

The Mercedes-Benz Unimog is a recent importation from Germany, and the South Bend Division of Curtiss-Wright has taken over distribution and sales in this country, with possible manufacture at a later date. This machine is a rugged, 4-wheel drive truck-type carrier in two sizes. It is built for extremely rough usage and off-the-road service. It was displayed and demonstrated its ability to move over rough terrain with ease. An important feature is the arrangement of multiple-power takeoffs which permit the unit to supply power for welding, handling of air tools, post hole digging, etc.

The scraper units are already moving down the production line at the South Bend plant.

... Circle No. 201

Mobile concrete batch plant

With a wide range of capacities in handling four sizes of aggregate, the new Two Seventy-Five concrete batch plant has been added to the line of C. S. Johnson. A particular feature of the plant is the design that permits it to be disassembled into three mobile units. The three bin sizes offered have 33, 50 and 67-yd. capacities. A pivoted distributor may be manually controlled from ground level, or can be equipped for remote control. Maximum erection lift is only 7½ tons. Equipped



with beam-type scales, the plant has a 3½-yd. batcher with standard manual control for aggregate and semi-automatic cement control. Au-

tomatic controls are available. The new plant has a 350-bbl. cement silo and either 30 or 36-in. batching belt conveyors.

... Circle No. 202

Vibrator trailer mounted

Mounted on a trailer that can be pushed or pulled by any prime mover, the vibratory compactor of Jackson Vibrators, Inc. can be raised or lowered by the operator through remote controls. New type of bases permit operation in either direction, which eliminates need for

SEE THE MANUFACTURER'S CATALOG SECTION—PAGE 115



urning and deadheading. Work-
head on the trailer mounting can
onsist of 3, 4, 5 or 6 vibratory
units, or two workheads with up to
units in tandem may be used.
ach vibratory unit has its own
motor, developing 6,000 lb. at 4,200
om. and may be detached and
used individually in confined areas.
ontractors find the power plant
seful in producing 110-v. power
hen the compactor is not in other
se.
... Circle No. 203

New drill by Atlas Copco

With an integral type pusher leg,
the new Atlas Copco "Tiger" is a
high speed drill with finger-tip
controls located on the backhead.

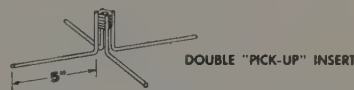
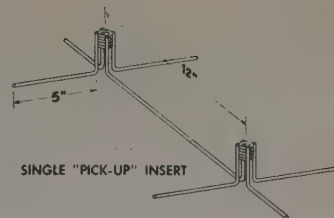


t has been introduced as a fast-
penetrating rock drill suitable for
unneling. The "Tiger's" 3,050
ort-stroke blows per minute re-
uce recoil to a minimum, assuring
ase in collaring. Designed for holes
up to 18 ft. or more in depth, the
rill is said to average 20 in. per
min. in granite at standard operat-
ing pressures; An automatic control
starts the flow of flushing water as
oon as the throttle is opened.

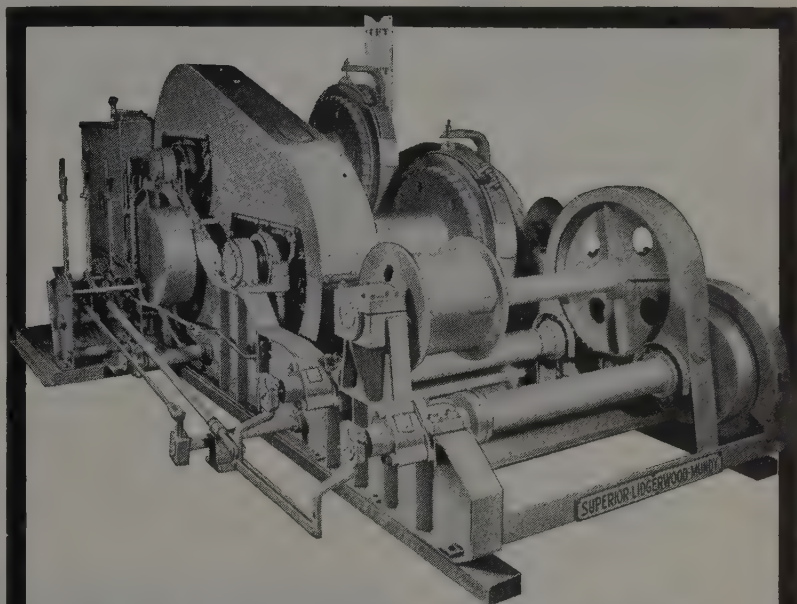
... Circle No. 204

Lifting devices for walls

As a convenient accessory in tilt-
up construction a complete line of
lifting and anchoring devices is now
available from The Dayton Sure-
Grip and Shore Co. These units are
designed on the same principle as
Sure-Grip coil ties. The single pick-
up insert is built for use with $\frac{1}{2}$ to
 $1\frac{1}{4}$ -in. coil bolts and is placed di-
rectly in the face of the slab. Safe
loads in tension for 3,000-psi. con-
crete vary from 3,000 lb. with $\frac{1}{2}$ -in.
bolts to 10,000 lb. for $1\frac{1}{4}$ -in. bolts.
The double pick-up insert design



is used with double bolts from $\frac{3}{4}$
to $1\frac{1}{4}$ in. in size and a lifting angle.
This design is generally used in the



ELECTRIC DERRICK HOISTS

S-L-M serves the St. Lawrence
Seaway by supplying Electric
Derrick Hoists as shown.

Your derrick hoist requirements can
also be met with hard working,
durable Hoists and Swingers ar-

ranged, designed and built to your
requirements.

Flexibility of design is a feature of
these hoists as each is arranged to
suit exact requirements, yet consist
of a combination of standard parts.

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MAIN OFFICE AND WORKS—SUPERIOR, WISCONSIN
Pacific Coast Representative: GEORGE E. SWETT & COMPANY
100 Howard Street, San Francisco 5, California

... for more details, circle No. 97 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

edge of the slab and recommended by the manufacturer for lifting slabs under 9 ft. high. Three types of brace anchors are also available to complete this line of accessories.
... Circle No. 205

Cement silo on wheels

A truly portable cement silo in capacities from 125 to 460 bbl. is available from Engineered Equipment, Inc. A bucket elevator built integrally with and inside the silo conserves space. Manual or auto-



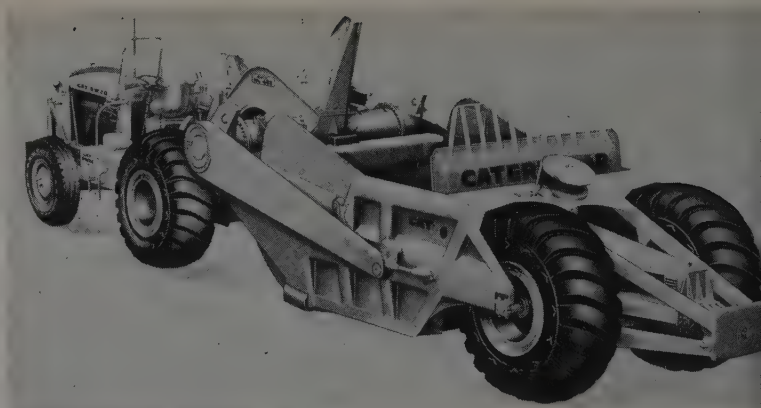
matic scales are optional. Tandem rubber towing wheels and a fifth wheel for attaching to truck trailer enable the silo to be moved quickly and efficiently from job to job. Electric brakes are optional. In the 8-ft. diameter size, capacities range from 125 to 250 bbl. and in the 10-ft. size the capacities reach 460-bbl. maximum.
... Circle No. 206

Small saw with big design

Incorporating all of the quality features of its larger saws, Homelite has announced a new low-cost ZIP chain saw that can handle 18-in. trees in 18 sec. Equipped with a 12-in. chain, this unit was designed to answer the need for an inexpensive high quality chain saw for a



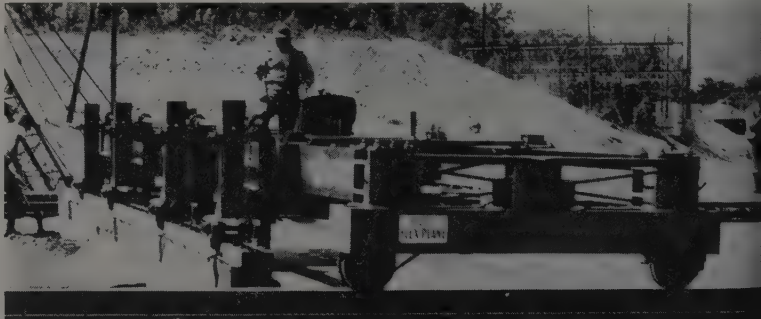
wide variety of uses. It incorporates features of economy, durability, and ease of operations including the Homelite short stroke engine, automatic clutch and safety guard. Blades come in several sizes, ranging from 12 to 21 in.
... Circle No. 207



Caterpillar adds two scrapers to line

For service with the Caterpillar DW20 wheel tractor, two additional scrapers are now available. Caterpillar Tractor Co., has brought out the additions to provide a wider choice of scraper sizes to use with the DW20. One of the units is a 24-yd. struck-capacity scraper designated the Cat No. 482 Series B, and this new unit is joined by the 18-yd. No. 456 scraper. Of different capacities, job conditions will determine which unit will give best service. Generally, the big No. 482 is most economical under good loading conditions and where haul road grades are a minimum. The No. 456 can serve better on jobs where

haul roads have adverse grades and conditions are poorer. These factors and others should be considered in selecting the scraper for individual jobs. The No. 482 incorporates some new design features including the location of the bowl-lift sheave in the draft frame spreader tube. The bowl-lift cables are attached directly to the sides, a change made advisable by the large capacity of the unit. This design change protects the cables and will extend sheave and cable life. Sealed sheave bearings have been used throughout and these bearings have 125-hr. lubrication. A safety feature introduced is an automatic bowl latch standard equipment which will prevent accidental dropping of the bowl.
... Circle No. 208



Finisher for bridges and elevated decks

Emphasis on elevated highways has resulted in the development of a new and extremely flexible type of bridge and deck finishing machine by Heltzel Steel Form & Iron Co. The unit will finish a wider range of bridge slabs at greater production speed. The single machine is adaptable to a width range of 24 to 44 ft. With simple changes it can be reduced to a 16-ft. width. The unit is assem-

bled by clamping together four main components which makes it easy to assemble, dismantle and adjust to different types of jobs. A new drive reduction and improved screed mounting and suspension enable the machine to deliver better straight-line action with a minimum of distortion. Individual hydraulic lifts can lower the screed 24 in. below the riding rails, with wheels in the high position. The finisher travels from 3.5 to 13.4 ft. per min. when screeding and up to 48.4 ft. per min. when not screeding.
... Circle No. 209

Tractor-mounted utility unit

To compete in the low priced field, J. I. Case Co., offers a new tractor-mounted utility trenching and loading machine. Designed Model 310, the basic tractor develops 30 hp. on the drawbar and up to 5,690-lb. pull-or-push power. The Case-built backhoe and the



ader both operate by 1,600-psi. hydraulic power supplied by the tractor-mounted pump. The machine is designed to be a completely matched unit. The rear-mounted backhoe digs 12½ ft. deep and swings 180 deg. A special feature is the foot-operated swing control, leaving the operator's hand free for the bucket levers. The ¾-yd. front-mounted loader lifts 2,600 lb. and clears 1 ft. with the bucket dumped. The utility 310 is powered by a Case 30-hp. engine and the tractor maintains power on both treads while turning.

... Circle No. 210

Hammer on a tractor

A Trac-Hammer suitable for a variety of jobs from concrete breaking to drilling has been announced by Vulcan Iron Works and Gardner-Denver Co. The unit is an application of Vulcan's portable pile hammer mounted on Gardner-Denver's Air-Trac. The rig offers, for the first time, a construction machine of this type which can be adapted for both drilling and pile



multiply manpower

WITH **watson-cmetco**

POWER BUGGIES



WATSON-CMETCO Power Buggies at work on Peter Kiewit Carquinez (Calif.) Bridge approach job.

YOU'LL PLACE MORE CONCRETE FASTER, AT LOWER COST, with job-proved CMETCO Power Buggies on the job. Here's why:

- * **UNEQUALLED MANEUVERABILITY**—51" turning radius, easy automotive-type steering and controls, and instant reversing make CMETCO Buggies fast and easy to handle even on narrow ramps and tight, tricky platforms.
- * **PLENTY OF POWER** to handle full loads on steep ramps. Load is centered over dual drive wheels for extra traction.
- * **EXTRA CAPACITY**—10½ cu. ft. struck, 13½ heaped.
- * **FAST, CLEAN, CONTROLLED DUMPING**—bucket is nicely balanced for easy, accurate dumping control and is designed for clean self-purging dumping that eliminates hand scrape-outs.
- * **NO OPERATOR TRAINING REQUIRED**—Anyone can handle CMETCO's simple automotive type steering and controls!

YOU'LL BE HOURS AND DOLLARS AHEAD with WATSON-CMETCO Power Buggies on your job. Why not get the facts now? Write today for complete information and name of your local WATSON-CMETCO distributor; please address Dept. W1

watson-cmetco

BETTER EQUIPMENT FOR PLACING AND FINISHING CONCRETE...

H. S. WATSON COMPANY

1316 - 67th STREET • EMERYVILLE, CALIFORNIA
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Power Buggies • Telescoping and Economy Vibratory Screeds • Rola Pavers and Trench Boxes • Wood and Steel Tilt-Up Hardware • Bull Floats • Hoppers • Elephant Trunks and Chutes • Tampers • Hand Carts

... for more details, circle No. 98 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

driving. The unit tows its own compressed air supply and features a boom which can operate for both driving or drilling in all positions. For pile driving or breaking, the hammer can be united with the "Trac" through a mounting bracket attached to the mast that requires no changeover.

... Circle No. 211

Rear-dump for tight turns

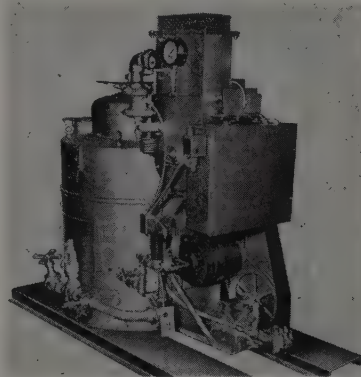
Designed for smooth and controlled dumping, the new Model TS-1622 rear-dump, variable wheel base trailer has gone into production by Easton Car & Construction Co. This trailer is designed to represent a perfectly-balanced combination with the Euclid, Model S-12 tractor and will be known as the S-12 rear-dump. All of the tires will be interchangeable as will the wheels and brake parts. Rated capacity of the new trailer is 22 tons, based on material weighing 2,700 lb. per cu. yd. Ability to maneuver through tight turns is a particular feature. In traveling position the power steered tractor can be cut to a 90-deg. angle permitting the unit to turn within a width approximately equal to its overall length.



... Circle No. 212

New boiler for contractors

Available in sizes from 20 to 150 bhp. a new line of Kwik-Steam vapor boilers is available from Littleford Bros., Inc. The boilers are de-



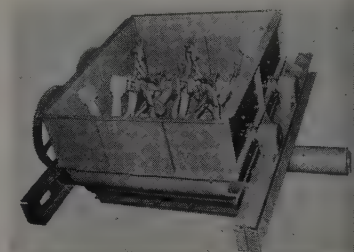
signed particularly for construction use and can provide full steam pres-

sure in 2 min., reducing both labor and operating costs, because steam can be produced only when it is needed. Because of its compact size and light weight, these units are easier to install and can be placed closer to the point of use. The unit can burn either oil or gas. Coils are guaranteed for five years.

... Circle No. 213

Asphalt mixer mixes better

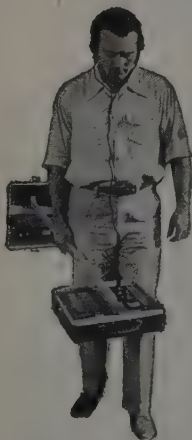
Using high chromium alloy mixer tips, gates and liners, the new Bollard Asphalt Plant Division mixer produces a closely knit mix with uniformity throughout the batch. The 16 liners overlap, reducing the need for a large number of bolts, and the 4 liners at the mi-



er gate extend down into the gap, fully protecting the shell wall. Activated by either air or steam, the gate will open and dump a load in 4 sec. Repairs or adjustments of the tips can be made without removing any part of the structure over the mixer. Vertical sides parallel to the shafts are hinged and can be laid back flat on the platform floor. Batches are kept hot throughout the mixing cycle by the four heating jackets on the outside surface of the shell. Mixers are available in 3,000, 4,000, 5,000 and 6,000-lb. capacities, and can handle overloads of 5 to 10%.

... Circle No. 214

FISHER Finds it faster!



All-new 1959
Transistorized
M-SCOPE
PIPE
FINDER

only
\$189.50

- Greatest depth penetration
- Greatest tracing distance
- Pinpoint accuracy
- One year between battery changes
- Built-in battery testers
- 90% less maintenance costs

New, Transistorized LEAK DETECTOR

- Finds leaks faster, more accurately
- Weighs 80% LESS than ordinary equipment

only
\$295.00

SEND FOR FREE 1959 CATALOG

FISHER Research Lab., Inc.
Dept. WC-1, Palo Alto, Calif.

... for more details, circle No. 99

IF YOU HANDLE EXPLOSIVES the MODEL 'C' is worth your life and money

Millions of pounds of explosives have been loaded by the MODEL 'C' Loading and Tamping Machine without one single accident.

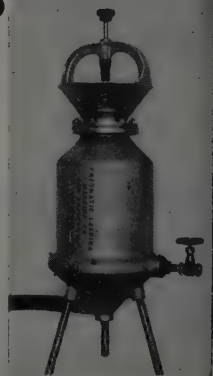
Sprung holes, including all cracks and crevices, are completely filled through use of the 'Model C', giving full breakage power to any powder or ammonium nitrate used.

The Model 'C' loads 25 pounds of explosives in less than one minute, saving from 55 to 72% in labor over hand loading and backfilling.

for complete details write:

PNEUMATIC LOADING MACHINE CO.
806 Central Tower Bldg., San Francisco, Calif.

or fill in reader service card ↓



... for more details, circle No. 100 on Reader Service Postcard

WESTERN CONSTRUCTION—January 1959

Pocket-sized radio receiver

Another step toward personal radio communications on construction jobs has been taken by Motorola in their new Handy-Talkie Pocket Receiver. This fully transistorized receiver adds a new dimension



sion to 2-way mobile radio systems by extending reception to the man on foot. Communications can be maintained with the base station or any of its mobile units. It picks up all signals on a system's frequency. With its length of 6 in. and 2½-in. width, the receiver clips on a user's belt or may be carried in a pocket. It puts out 100 milliwatts audio power from batteries to a built-in speaker, providing adequate messages in most applications in construction. . . . Circle No. 215

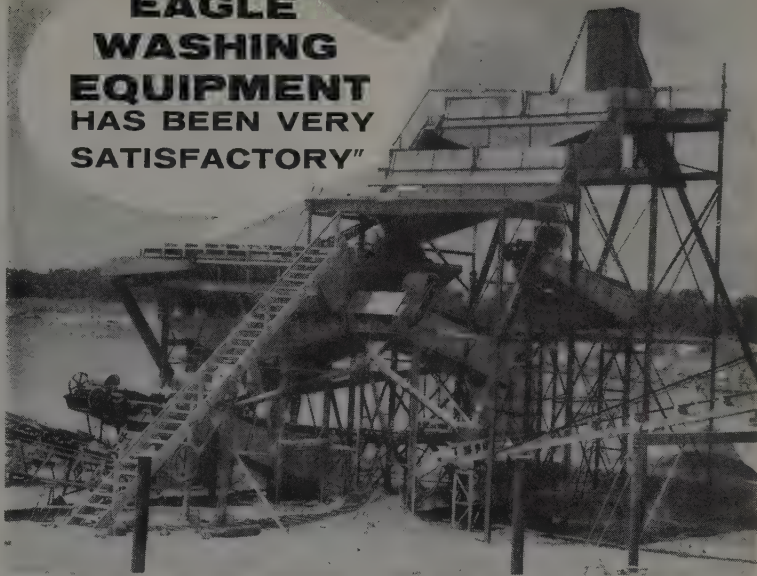
The loader called Gismo

Combining the features of self loading and transporting, the Gismo of Sanford-Day is designed for underground use. Operated originally in the mining field, this unit



finds similar uses in tunneling. Moved by a crawler unit, the machine loads itself by scoop action and then transports and dumps by rear tipping. The same tractor power can handle the Gismo Drilling Jumbo which mounts four drills operated by a two-man crew. . . . Circle No. 216

"OUR EAGLE WASHING EQUIPMENT HAS BEEN VERY SATISFACTORY"



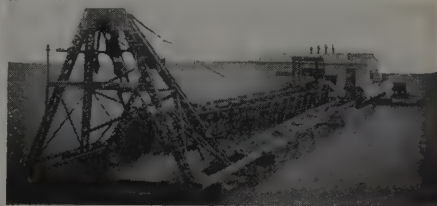
reports G. A. Johnson,

Salina Sand Co., Inc., Mentor, Kansas

For over ten years Salina Sand Co., Inc., has successfully employed Eagle Washing Equipment. Various units have been added from time to time. Their present modern, versatile plant is pictured. Eagle Equipment includes a double 32' Water Scalping-Classifying Tank with automatic bleeder valves and metering "splitter" gates, two Double Screw Fine Material Washers, one 22" x 18' and 36" x 22' and two Coarse Material Washers, one 24" x 18' Single Screw, and a 30" x 18' Double Screw. Salina's dredge with 10' pump is equipped with a 75' light duty Eagle "Swintek" Dredging Ladder, shown below.

With this plant they can readily meet material specifications of the state and other governmental bodies. They produce mason sand, concrete sand, cover material and road gravel. In addition to giving them the desired classifications of sand, Salina's Eagle plant thoroughly washes out clay and dirt frequently encountered in the deposit. The "Swintek" ladder on their dredge cuts costs and increases production by increasing intake of solids and by completely eliminating shutdowns from clogged suction lines.

Salina Sand Co., Inc., is happy with their Eagle Equipment—a sound investment protected by Eagle's vast experience and far-reaching service policy. Send for Catalog 58 on Washing-Classifying-Dehydrating Equipment or Catalog 83 on Eagle's Dredging Equipment.



EAGLE IRON WORKS

203 Holcomb Ave., Des Moines, Iowa

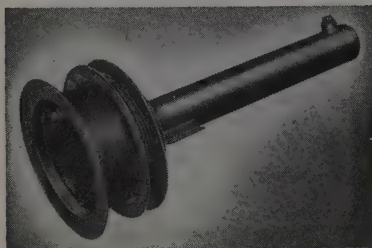
SINCE 1872



Sold and Serviced by
Arizona Cedar Rapids Co., Phoenix; Cook Bros. Equipment Co., Oakland, Calif.; Brown-Bevis Industrial Equip. Co., Los Angeles, Bakersfield, Ventura, Calif.; Balzer Machinery Co., Portland, Oregon; Intermountain Equip. Co., Boise, Pocatello, Ida.; Spokane, Wash.; Keremi Tractor & Equip. Co., Cheyenne, Casper, Wyo.; The Lang Co., Salt Lake City, Utah; H. W. Moore Equip. Co., Denver, Grand Junction, Durango, Colo.; Jack Sahlberg Equip. Co., Seattle, Wash.; Sierra Machinery Co., Reno, Nev.; N. C. Ribble Co., Albuquerque, N. Mex.; Western Construction Equip. Co., Billings, Missoula, Great Falls, Bozeman, Mont.

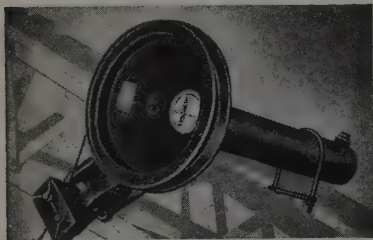
. . . for more details, circle No. 101 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

2 ways to make crane operations pay more



1 RUD-o-MATIC Combination Magnet Reel-Tagline

Rud-o-Matic Combination Magnet Reel-Tagline saves expensive electric cable wear on overhead and boom crane jobs. Tension on the steel tagline cable keeps the strain from the expensive electric magnet cable. Now standard equipment with major crane manufacturers, the Rud-o-Matic Combination Magnet Reel-Tagline is made in five models to fit your present equipment. Insure complete tagline control on your crane with Rud-o-Matic!



2 RUD-o-MATIC Tagline

Crane operations are more profitable when you install Rud-o-Matic Taglines. Heavy duty torsion coil spring keeps tension on tagline cable at all times for bucket control. Buckets are held steady at any angle of the boom. Available in 11 models for various bucket sizes and pull out requirements. Taglines delivered fully equipped with fairlead and cable attached—ready to install. Get more pay loads per day with your crane with Rud-o-Matic Tagline Control!

For full information on Rud-o-Matic Taglines, call or write—

McCAFFREY-RUDDOCK
Tagline
CORPORATION

2131 East 25th Street • Los Angeles 58, California

... for more details, circle No. 102
See manufacturer's detailed listing in Yellow Section

178



LeTourneau makes the biggest

New in concept and revolutionary in size, a self-loading scraper has been introduced on the proving grounds of R. G. LeTourneau, Inc. The unit is more than 100 ft. long and the tandem scrapers hold a 130-ton load. The outstanding feature is LeTourneau's "electric wheel" system of drive. Two 600-hp. diesel engines drive ac. and dc. generators under the hood of the power unit. These generators drive dc. electric motors which are geared directly to the rims of all eight wheels.

They also drive other motors spotted at other strategic locations on the machine.

With this system and the necessary controls, one operator is able to handle the entire unit. While loading the leading scraper, the electric wheels on the rear unit provide a pushing action and when the rear unit is being loaded, the wheels on the first scraper, aided by the load, provide an extra pulling force. Discharge can be either separate or combined as determined by operator.

... Circle No. 213

High lifts with HI-LITE

With a 40-ton model that will lift and handle, unassisted, a height of



200 ft., Link-Belt Speeder Corp. has announced three new truck cranes. These three models of Zephyr cranes offer many specialized features designed to help meet job requirements. These include Speeder-o-Matic hydraulic controls, reversing clutches, pin connection on the crane boom, swing brake and hydraulic counterweight-removal jacks. The carriers feature hydraulic power steering and removable front and rear outrigger boxes and beams. A 12-page catalog is available covering the details of each model with standard or optional features. The 40-ton unit is identified as HC-108A with a 200-ft. reach, while the 35-ton HC-98A handles 180 ft., and the 30-ton HC-88A handles 160 ft.

... Circle No. 218

Designed for handy travel

Occupying only 22 in. of space behind the truck cab and folding down into the position shown during traveling, the Model 50 Hydraulic Lift can handle up to 5,000 lb. It is hydraulically operated and the boom rotates a full circle. In its lowered position over the cab the boom places no restrictions on the load carried by the truck. Controls



... on both sides and the model has hydraulic outriggers of the self-locking type. Power comes from the truck engine through a power take-off. The crane is available in three models. The smallest of the three has a fixed boom length of 12 ft., and the largest telescopes hydraulically from 12 to 20 ft. **Pitman Manufacturing Co.**

... Circle No. 219

Vibrator for tight places

Known as the Sabre and designed to fit into extremely confined sections and awkward form angles, a new thin vibrator attachment is available from **Dart Mfg. & Sales Co.** The attachment fits onto Dart



vibrator heads. The Sabre blades are made of strong spring steel in both 20 and 22-in. lengths. Present Dart vibrator heads are now available with removable steel or rubber nose tips and by removing these the Sabre blade can be attached. This means that the new vibrator can be used from either electric or gasoline powered units. It is particularly recommended for use with the smaller and more portable unit.

The blade itself is 1 3/4 in. wide by 3/16 in. thick in the 22-in. length.

... Circle No. 220

Transcretes increase payload

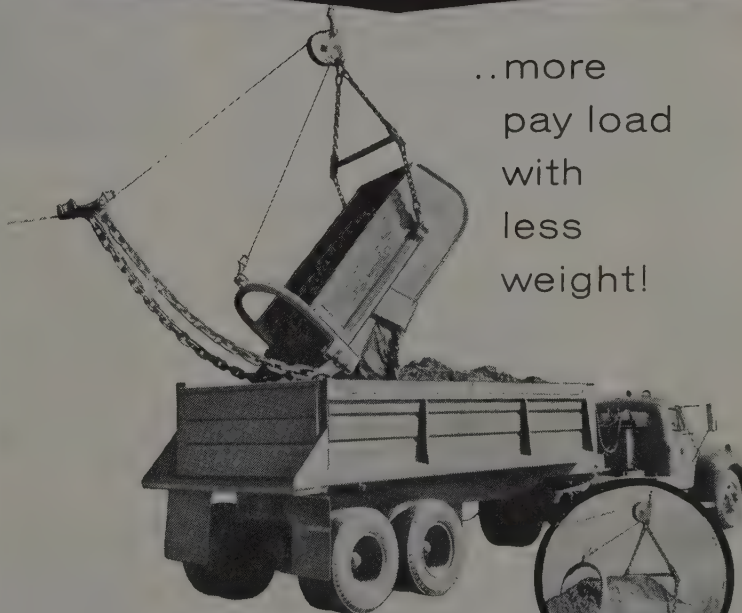
The **CMC Transcretes** for 1959 feature a simplified design to cut mixer weight and increase the resulting payload. Use of light-weight alloy steels and new welding techniques also provide a stronger and more rugged mixer. Improvement in discharge design shows pours made on the job average less than 30 sec. per yd. with 1 1/2-in. slump



concrete. Simplified two-lever controls give the operator control over throttle, drum rotation and brake at either end of the mixer.

... Circle No. 221

introducing **McCaffrey's**
new **lightweight** champ!
Type A **Dragline Bucket**

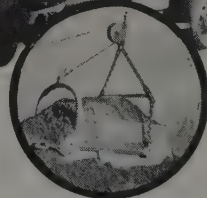


...more
pay load
with
less
weight!

Champ of its weight class, the new lightweight Dragline Bucket is engineered and balanced for deep bites, easy control and clean dumping. Up to one ton lighter in larger sizes! Available from 3/8 to 3 1/2 yards.

This all-welded bucket takes its place alongside the popular medium weight Type M Dragline Bucket and the famous Clamshell (shown right).

Write today for complete information on McCaffrey's new lightweight Dragline Bucket.



M. P. McCaffrey, Inc.

2121 E. 25th ST., LOS ANGELES 58, CALIF.

... for more details, circle No. 103 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

179

Hough has new H-90 Payloader

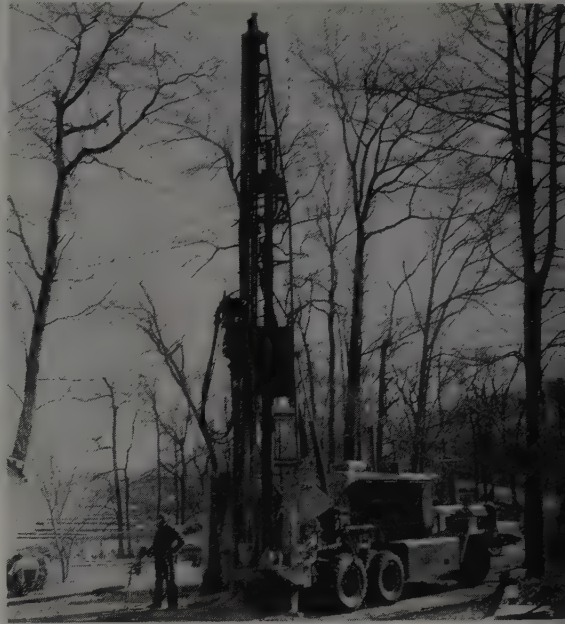
With a model designation of H-90 Payloader to indicate its 9,000-lb. capacity, the new machine of Frank G. Hough Co., replaces the former HO model. This rubber-tired, 4-wheel drive model is offered with either gas or diesel power. Buckets to handle materials of various weights within the recommended capacity of 9,000 lb. are available in sizes from 1½ to 5 cu. yd. The most important change in appearance is in the lowered profile at the front end which gives the operator better visibility and makes for faster and safer operation. The H-90 has a breakout force of 21,000



lb. and a bucket tipback of 44 deg. at ground level. A cartridge-type oil filter has been built into the hydraulic reservoir, in addition to separate oil filters for both engine and transmission oil. Power-transfer differentials automatically move 24% of the torque to wheels with best footing. . . . Circle No. 222

New mounting on I-R Drillmaster

Improvements to the well known Drillmaster make this blast-hole unit more rugged and portable. Ingersoll-Rand Co., states that the setup time for the unit (TRUCM-3) Drillmaster is now only a few minutes because the tower is raised and lowered by hydraulic power. This puts the I-R Downhole Drill into action

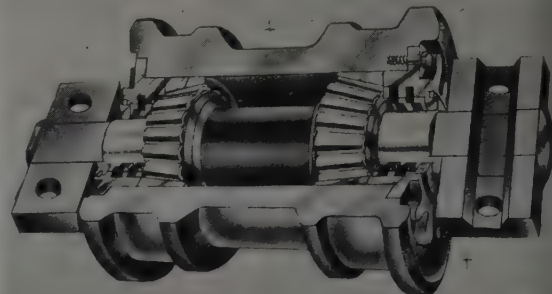


at once. In the field, the unit has drilled 350 ft. of hole during a single 8-hr. shift. Also it can be used as a heavy duty rotary unit when soft, nonabrasive overburden and bedrock must be worked. The air supply for the unit is provided by the 600 cfm. Gyro-Flow rotary compressor.

Extreme portability is provided by the carrier mounting which can travel at highway speeds and meet load limits in all states. This mounting was designed for I-R by Crane Carrier Corp. Height of the unit is 12½ ft., length 35 ft., wheel base 175 in. and weight 33,000 lb. . . . Circle No. 223

New design tractor roller bearings

After 3 years of field tests a new design in non-friction replacement rollers for tractors has been announced by Dependaloy Tractor Parts Co. The long period of testing was carried out in order to introduce





The 42 LB.
GRIPHOIST
 TIRFOR
LIFTS • PULLS
LOWERS
3300 LBS.
Single Line
6 TONS
OR MORE
 with pulley blocks

Unlimited cable travel
 ... Portable ... Hand
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Standard equipment
 with refineries, engineering contractors,
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½" wire rope

3,300 LBS.

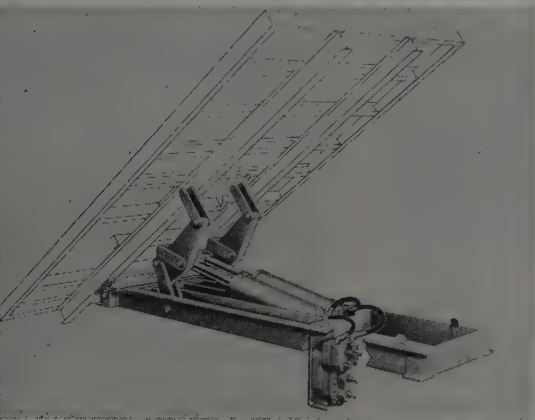
... for more details, circle No. 118 on Reader Service Postcard
 See manufacturer's detailed listing in Yellow Section

rollers at the same time. These models which number a total of 25 will fill practically all requirements for tractors currently operating on construction projects. The new design incorporates the use of non-SKF cageless bearings. However, the important design feature is in the arrangement of the seals as many as the number used. These are designed to keep factory installed lubricant permanently sealed in the life of the roller, as well as to keep out all dirt and water. Each side of the roller has 2 neoprene seals protected by 2 interlocking high alloy steel seals.

... Circle No. 224

hoist for tandem chassis

Designed to use on tandem chassis, Hercules Steel Products Co. announces production of two powerful hydraulic-cylinder lift arm hoists. They are available with



either twin 7 or 8-in. cylinders, with the larger size designed for heavier application on chassis up to 100 lb. gvwt. Both hoists are designed for use under chassis up to 16 ft. in length. An important design feature is the linkage which powers the lift arm with scissors-type action resulting in smoother operation.

... Circle No. 225

tractor with elevating scraper

A lightweight tractor-scraper team which can match up with much bigger rigs is on the market. First cost, gas consumption, and upkeep are very low, and a second tractor is needed for fast loading. The benefit of the low power requirement is the scraper, which loads by means of a continuous slat-type ele-



ator which picks up the material from the cutting edge. This eliminates the need for brute force. The slat-type elevating scraper, familiar to most earthmovers, has been redesigned to include forced ejectors. The tractor is a John Deere 840 diesel, with 66 hp. at the drawbar. The two machines are designed to match, but the tractor can be disconnected in a few minutes if necessary.

... Circle No. 226



MILLER SWIVEL INSULATOR LINK

Electrocutions from accidental crane boom contact with overhead wires CAN be prevented. 50,000 Volt Protection. Seven sizes - 5 to 35 ton. For whip line or load blocks.

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Los Angeles, Calif.

WEEKS HOWE EMERSON

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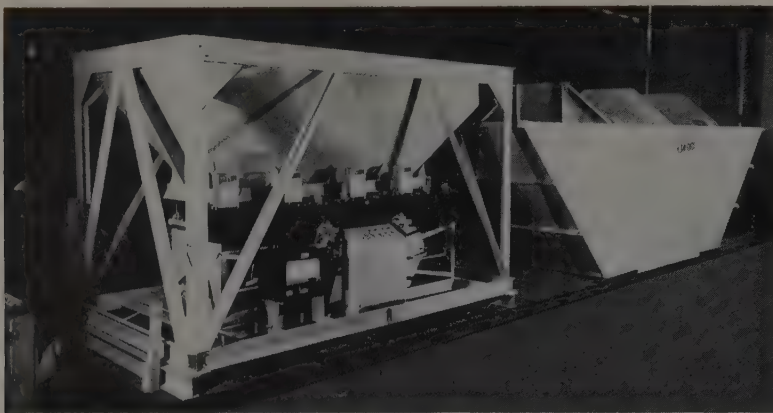
WESTERN MACHINERY CO.

Phoenix, Ariz.

MINE SUPPLY COMPANY

Albuquerque, N. M.

... for more details, circle No. 105 on Reader Service Postcard



High speed batch plant

For highway and airport concrete paving, **Blaw-Knox Co.** has announced a new electrically controlled, high speed batch plant, featuring preassembly and testing as well as autographic chart recorders. The plant is designed to meet the specifications requirements of the Corps of Engineers on airport work. Hourly production is guaranteed to be at least 180 highly-accurate batches of $1\frac{3}{8}$ cu. yd. This rate is considered sufficient to handle the needs of two dual-drum pavers. A special design feature is the

weighing of four aggregate materials at the same time in separate hoppers with discharge into batch trucks. The complete plant includes the following units: (1) Aggregate batcher with 4-pen recorder, (2) cement batcher with 2-pen recorder, (3) aggregate bin and (4) cement bin. The aggregate bin is designed for portability and rapid erection. It includes four compartments of $37\frac{1}{2}$ -ton capacity each.

The automatic aggregate batcher is factory assembled and tested. The electrically controlled scales operate on 110-v. power.

... Circle No. 227



Four new trencher models

Four new wheel-type trencher models have been introduced by the **Cleveland Trencher Co.**, adding and not replacing models already in the line. The models are J-20, J-30, J-40 and JS-30. With these additions the line includes 10 wheel-type models and 2 sidecrane-backfiller models.

The new models represent major advances in design and have features which provide important operating advantages. A new type of V-shaped discharge conveyor is a

basic advance which provides maximum clearance under the digging wheel and allows higher-heaped loads without clogging. From the operator's station a lever permits variation in discharge speed and the shifting of the entire conveyor to either side, without interrupting digging action. These are reported to be the only trenchers providing this complete push button control of the conveyor from the operator's seat.

The drive mechanism of the conveyor is hydraulic and completely

independent of all other drive. The crawler drive is equipped with hydraulic brakes. All bearings are sealed and they have large lubricant reservoirs requiring refill only every 200 hr. of operation. Every operation of the new model is controlled completely by the operator from his station, and these controls feature convenience, safety and visibility. ... Circle No. 228

Improved seal-coat spreader

Ready for mounting on a standard dump truck in 15 min., the chip and sand spreader of **River Tractor Co.** incorporates several new features. In addition to manual control, Fox now offers electrical control panel permitting driver to regulate material flow



the dashboard. Mesh-type screen has been replaced with $\frac{3}{8}$ -in. mesh at 3-in spacing. Height of the spreader can be adjusted to spread from 8 ft. to 40 ft. with most materials. As optional equipment, a V-shaped baffle plate can be mounted on the auger for handling heavy material such as chips. By making simple sprocket changes and the installation of this baffle plate, equipment can be changed from sander to a seal-coater. Capacities are from 5 to 8 cu. yd., and spreader operates effectively at truck speeds from 5 to 40 mph.

... Circle No. 229

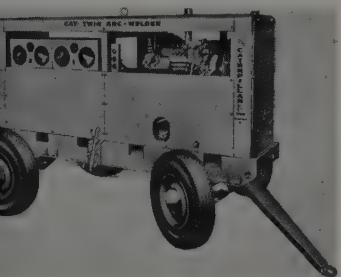
Sealing compound for joints

Classified as the newest and most efficient sealing compound for joints in concrete pavement on airfields, the No. 55, Military Type new sealer has been announced by **Presstite-Keystone Engineering Product Co.**, a division of American Marietta Co. The sealer is a compound, rapid-curing synthetic polymer of the cold-applied type. It will set up quickly, resist blast from jet engines and also resist the temperatures coming from the jet after-burners. It is ductile

wide range temperatures. It is affected by the spilling of jets. This material is also available in Highway Type for new concrete construction and for maintenance. . . . Circle No. 230

twin arc-welder

Combining the Cat D311 (series diesel engine and two Lincoln electric welding generators, the engine division of Caterpillar Tractor



has announced a new portable welding unit. The generators each have a rating of 300 amp. at 40 volts for the simultaneous operation of two arcs. For parallel operation the welder is rated at 600 amp. Two sets of controls allow welding at different voltages, and

other characteristics at the same time. This permits precision adjustment throughout the current range. A 3 kw. exciter provides a constant source of magnetic flux to the generators and 1.5 kw. to the 115-volt auxiliary outlets. The adequate engine reserve capacity insures a constant arc during normal load variations. . . . Circle No. 231

Truck mixer batching plant

Answering the demand for a fast, low-cost truck mixer batching plant, Erie Strayer has a new TPA-TPC portable. This is the type of



plant designed to operate in locations distant from central plants. Its primary function is to eliminate long haul to the job site. It can be operated either on gas or electri-

cally, and is designed for fast moves. Another advantage of this type of batching is the reduction in the number of truck mixers required. The set-up time is 3 hr., and both units are mounted on rubber tires for moving with two truck tractors. All of the conveying and batching equipment is permanently attached to these two units. Nothing needs to be removed either for transit or operation. No foundations are required since the TPA-TPC comes equipped with bases that work on ordinary soils. Capacity for the new model is rated at 60 cu. yd. per hr. with 3-yd. batches. The 3-compartment bin capacity is 28 yd. heaped. Cement storage silo holds 175 bbl., with auxiliary capacity of 450 bbl. . . . Circle No. 232

Keeps equipment clean

With a capacity of 400 gal. per hour at 150 psi., a new heavy-duty type of steam cleaner has been announced by Aeroil Products Co. The unit features a down-draft burner with low water cutoff and a heating system for the chemicals. The CLS-400 has been particularly designed for the heavy duty cleaning of construction machinery and trucks. . . . Circle No. 233

FLASH-R-LITE

BATTERY OPERATED
ELECTRIC WARNING
LITES
NEW APPROVED DUAL
HEAD
GREATER VISIBILITY

FLASH-R-LITE

is the modern barricade warning system. Visibility and no-fire-hazard means more safety to the public and protection for men and equipment. The rental plan saves money. Order barricades as needed; return them when not needed.



FLASH-R-LITE insures
safe control of traffic
in hazardous areas

New Model R-2 (Dual Head)



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San Bernardino and Sacramento



Member

. . . for more details, circle No. 106 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section



Telescoping mobile home

Introduction of a new idea in mobile trailer homes—or offices—that offer twice the room of conventional trailers has been announced by **Go Cal. Inc.** These units, named Trailorama, feature a unique design that permits them to telescope from a legal 8-ft. wide highway hauling width to a 15-ft. width when placed at the site. The expansion is brought about through electric motors. Corrugated aluminum is used on the exterior walls for greater rigidity

and lighter weight. Insulation between exterior and interior walls is provided in order to withstand climatic changes. As a home, Trailorama has seven completely furnished models ranging in size from 450 sq. ft., with one to three bedrooms. Custom models are also available. As an office, there are also seven models with two entrances and one to four rooms. These office units may also be designed to specifications. Also available on special order are 18-ft. widths for both the home and office units.

... Circle No. 234

Marion adds wagon crane

Designated Type 362 wagon crane, the **Marion Power Shovel Co.** has added this new 45-ton unit to its line of excavating machinery.



The off-highway unit was designed primarily for rehandling materials and can carry up to 120 ft. of boom and 15 or 20-ft. jibs for added versatility in crane work. The unit features Marionair controls for ease in operation. The Type 362 is mounted on a Maxi carrier. Power is supplied by either GM diesel or Cat diesel.

... Circle No. 235

Truck to carry crew

To carry a 6-man crew in the cab, International trucks are now available in the medium and heavy-duty sizes by **International Harvester Co.** These new Travel-Crew cabs are designed for factory installation on A and AC-160 models, and A and AC-180 models as well as 4-wheel drive models in these two series. These cabs have been developed as



a direct result of the acceptance which was enjoyed by the first 6-passenger cab offered on the light-duty trucks. The cab is roomy and yet increases the bumper-to-back-of-cab dimensions on all models by only 36 in.

... Circle No. 236

J. I. Case crawler-loader-dozer

A combination $\frac{5}{8}$ -yd. loader and dozer designed to fit into the low

price crawler field is a development of **J. I. Case Co.** The 42-Case Utility 310 unit provides 2-in-1 tool for digging, loading, eling, pioneering, etc. Switch from loader operation to dozer requires only 5 min. and the pull

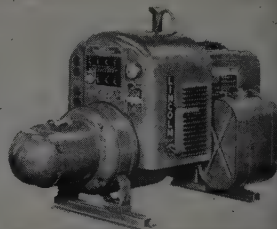


of 4 pins in the connecting arm involves no change in the hydraulic system which operates both to The dozer blades in the stand Case sizes are 71 x 23 in. for dozer and 88 x 25 in. for the an dozer.

... Circle No.

Combines welder with power

A new Weldanpower machine **Lincoln Electric Co.**, provides only an AC arc welder but also 5-kva. power supply where commercial power is not available



in case of failures. Contractors and maintenance departments are typical users of this versatile unit. It is powered by a heavy duty Wisconsin air cooled engine that delivers 13.1 hp. at 2,000 rpm. This low engine speed reduces wear and tends the life of the power plant. Power can be taken off from 110 or 230-volt outlets. Maximum continuous power is at 230 volts at 1 amp.

... Circle No.

Spiral shaped rubber idler

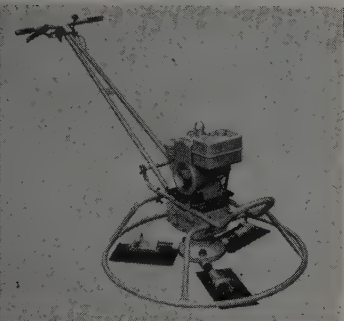
With a double corkscrew shape design a rubber idler for belt conveyors has been developed by **Hewitt-Robins, Inc.** and features self cleaning action, a readiness to conform to variations in belt load and easy replacement. The new idler is made of synthetic rubber molded around a wire rope. Though smaller in diameter a

...ter than conventional all metal
ers it carries any belt smoothly
l efficiently. Brackets on either
l of the idler permit free pivot
the vertical plane and intrusion
dirt is prevented by a new type
seal. These idlers which will be
ilable soon come in 18, 24, 30
36-in. belt widths.

... Circle No. 239

Adjustable blades on trowel

...n a new 39-in. size the power
wel of Thor Power Tool Co.,
all standard design features of
smaller models but the added

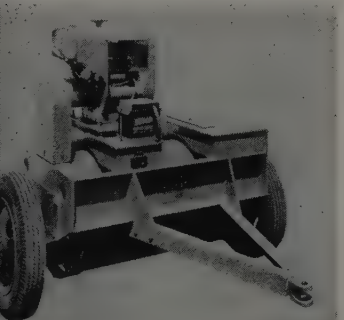


...vantage of adjustable blades.
ese blades can be altered for
per pitch while the machine re-
ins in motion, simply by moving
ontrol handle. Blades on the new
or T-39 are 7 x 13 in. The unit
features a low center of gravity
easy manipulation, blade-center
ension, and a non-rotating
ard ring.

... Circle No. 240

Makes roller portable

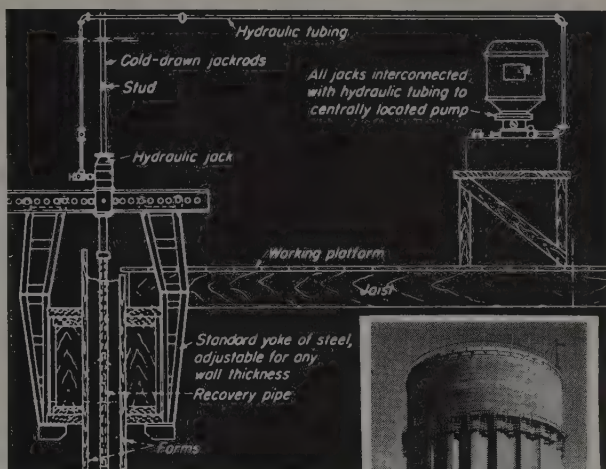
...A kit that converts the Essick
54 vibrating roller into a port-
e roller has been announced by
ick Mfg. Co. It consists of two



...eels with pneumatic tires, mount-
brackets and roll cradles. It can
attached easily to the existing
ne of the roller by drilling four
es on either side. After the two
unting brackets have been in-
led they can be left on perma-
ntly or quickly removed if close

HYDRAULIC SLIPFORM SERVICE

"Concretor"
Method success-
fully used for
elevators, feed
mills, apartment
houses, light-
houses, mine
shafts, silos,
radar towers,
factories, bridge
piers, etc.



Shown above: hydraulic jacks, specially designed
yokes, automatic pump and hydraulic pipe with
connections. Even the jackrods are included in the
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BUILD THE FORM—"CONCRETOR" RAISES IT.
Write for full details.

B. M. HEEDE, INC.

30-01 37th Ave., Long Island City, N. Y.
In San Francisco: 630 Sixth St.

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See manufacturer's detailed listing in Yellow Section



*Fast-Driving,
Versatile*

VULCAN

DPH-100

PILE HAMMER

**speeds work on
sewer project**

The Vulcan DPH-100 Portable, Differential-Acting Hammer is driving 3" x 8" x 24' timbers to a depth of 20 feet to form bins 8' wide and 24' long used in the construction of a sewer line in Edina, a suburb of Minneapolis. Contractor: Phelps-Drake Co., Minneapolis. The Vulcan DPH-100 is a favorite with contractors everywhere.

Ask for full information

Manufacturers of Pile Driving Hammers and Piling Extractors Since 1852



VULCAN IRON WORKS INC. 327 North Bell Avenue, Chicago 12, Illinois

... for more details, circle No. 108 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

clearance is desired in using the roller. These brackets of steel plate extend 4½ in. beyond the frame of the roller. Once the brackets are attached, the cradles and wheels can be mounted in less than 1 min., making the unit ready for highway trailing without wrenches or tools. The roll cradles, fabricated from heavy sheet steel, support the roll at each end, taking road shocks off the drive belts. . . . Circle No. 241

Heat to start the engine

Winter problems that relate to cold and sluggish construction equipment can be reduced through



the use of the MoPeCo Model GHE heater produced by Morrison-Pelsue Co. This 110-lb. unit delivers 1,200

cu. ft. of heated air through flexible ducts. The blower forces the air onto engines, transmissions, other parts of equipment and also into personnel enclosures. Products of combustion pass harmlessly into the outside air and the heated air is safe and may be used to ventilate as well as to heat. This makes the unit also convenient for field offices, tents, aircraft cabins and maintenance huts. The heater uses regular gasoline from a 2-gal. tank and a Briggs & Stratton engine powers the blower. . . . Circle No. 242

Forged, easy to open block

A block made of forged alloy steel in all major parts except the wheel, and a new opening mechanism are features of a new line of sheave blocks just announced by Joy Mfg. Co. The forged parts are a special safety feature since under extreme overloads the hook will not snap off, but at three times its rated capacity will begin to straighten out. The block can be opened quickly by turning the hook at right angles and pushing it aside. The design eliminates pins, chains, and bolts. It is available in 6, 8, and 10-in. sizes. . . . Circle No. 243

Ottawa for the Oliver line

Available for the Oliver line wheel tractors, the new Ottawa model LX backhoe handles a 12 ft. digging depth in any part of continuous 190-deg. swing. Also Ottawa front-end loader is available. These tools are adapted



Oliver tractors models 550, 7880, Super 55, 77 and 88. They are engineered as companion tools to operate from the same hydraulic system. Of course, either attachment can be mounted or operated without the other. The turret of seat swings with the boom for perfect visibility while digging or loading. Detachment is quick—only 5 min. are required to remove the backhoe. Ottawa's patented ejector bucket which forces out and sticky material during dumping is one of the special design features. . . . Circle No. 244

Designed for easy servicing

Including a torque converter drive and designed for easy servicing of the power unit assembly, Buffalo-Springfield Roller Co., offers a new model KT-7A in the ton tandem style. Other improvements



in design include bevel gear with wider face in the final drive to reduce tooth wear and easy adjustment for the clutches. The quick one-man method permits optional towing wheels to be positioned for transporting the KT-7A. These wheels are carried in the

Save up to 40% when shoring Concrete Floor Forms



Rent Sensational New SPANALL!

OBSOLETE other methods of shoring concrete slab forms! **SPANALL** is basically a system of adjustable telescopic girders which can fit any desired span from four to 34 feet. Especially effective over irregular ground surfaces. **SAVE TIME**, with **SPANALL**! No more timber "forests" to get in the way . . . space underneath **SPANALL** is uncluttered.

LIGHT IN WEIGHT, EASY TO INSTALL, STRIP AND RE-USE. **SPANALL** can be handled by hand, no special equipment necessary. **SPANALL'S** sturdy flanges fit over wall bearing surfaces.

When concrete has set, **SPANALL** can be removed quickly and re-installed, as desired, in new locations. Easy-to-follow folder tells you what **SPANALL** units to use, and how far apart they should be, for various loads and spans. Save money on your next job! Rent **SPANALL**! Complete engineering service available free! Call us for an estimate.

SPANALL OF THE PACIFIC

8907 Railroad Ave., Oakland 21, California

Sales agents: W. J. Burke & Co., in San Francisco, Oakland, Los Angeles, San Diego, Sacramento, Portland and Seattle.

. . . for more details, circle No. 109 on Reader Service Postcard

ed position as shown during
ing operations. Specifications
available. . . . Circle No. 245

Safety light on hand truck

Designed as a rugged, portable
d truck, this safety light for con-
ction projects mounts two warn-

drive rated for 20,000 hours of life.
It is also equipped with two filters,
one being a lifetime filter and the
other an inexpensive, replaceable
final filter. Powered by a Cummins
engine the model has five auto-
matic controls. A specification sheet
is available with complete dimen-
sions and data. . . . Circle No. 247

Prestressed concrete vibrator

For vibrating and screeding con-
crete for prestressed sections, Thor
has available two new vibratory
units using its exclusive high fre-
quency slapping action. This action
vibrates, compacts and levels the
concrete in a single action. These

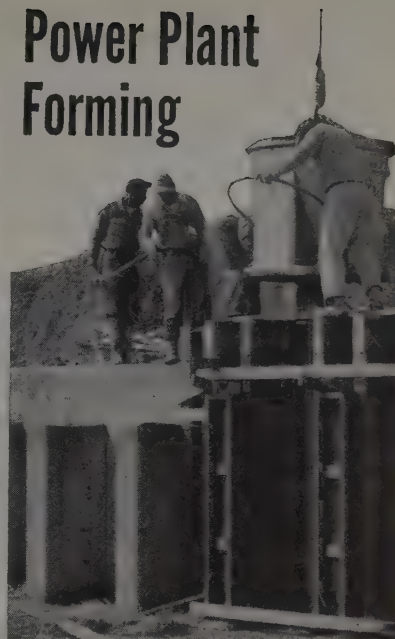


screeds have been announced for
the precast concrete industry by
Thor Power Tool Co. The Model
FSM-4 is 4 ft. long and Model
FSM-6 is 6 ft. long. The two sizes
are designed for finishing con-
ventional channels, double-tee and
other precast sections. In action, an
electric motor actuates a series of
steel straps between the two beams
and the resulting action forces out
water and air to produce denser,
hard surfaced concrete. These units
supplement the Thor screeds avail-
able for concrete slabs and highway
sections. . . . Circle No. 248

Doesn't melt or drop

Two lubricating compounds de-
signed to have no melting or drop-
ping point have recently been an-
nounced by The Whitmore Mfg.
Co. Trial samples are available
without charge. The anti-friction
compounds are especially suitable
for earth-moving and rock-drilling
equipment, giving constant protec-
tion to roller, ball, sleeve bearings
and sliding surfaces. Typical ap-
plication points for the new lubricants
would be hot bearings on draglines
and shovels and high temperature
bearings on screens and mixers.
The compounds are available in
two grades, one with light density
and the other with heavier density
for high temperature applications
and loose bearings.

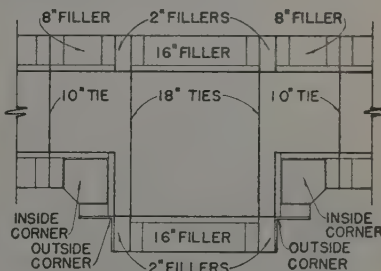
Power Plant Forming



Symons Forms Help Contractor Race Clock

**Pour 530 Yards of Concrete
in 5½ Hours**

Racing a siege of wet, windy weather,
workmen on the new \$10 million Blue Valley
Station of the Independence, Mo. power
plant, teamed up to pour 530 yards of con-
crete during one 5½ hour period.



Pilasters similar to the ones shown are
easy to erect with Symons Fillers and Corners.

Sharp Bros. Contracting Co., Kansas
City, the contractor, is using 8,000 square
feet of Symons Standard High Strength
Forms to pour 40,000 square feet of con-
crete. Much of the concrete is in thick slabs
and pedestal bases with wall thicknesses
varying from six to 84 inches. Symons 84-
inch washer ties are being used in pouring
pedestals for the turbines.

You can rent Symons Forms, Shores and
Column Clamps with purchase option. In-
formation on Symons products upon request.



SYMONS CLAMP & MFG. CO.

634 Williams Street, San Leandro, California
Phone: LOckhaven 9-9159

. . . for more details, circle No. 110

See manufacturer's detailed listing in Yellow Section



flashes. The unit is produced
Patrol-Lite Division, American
Manufacturing Corp. Note the
els for convenient moving of
unit. The 7-in. amber lights
h alternately and are operated
a regular 6-volt battery in a tam-
proof locked box. A recharge-
unit is included with each of
patrol lights. A new feature is
baked enamel sign panel 24 in.
are which is available with any
ding to meet requirement of
contractor or the governmental
ncy. . . . Circle No. 246

Worthington 365-cfm. unit

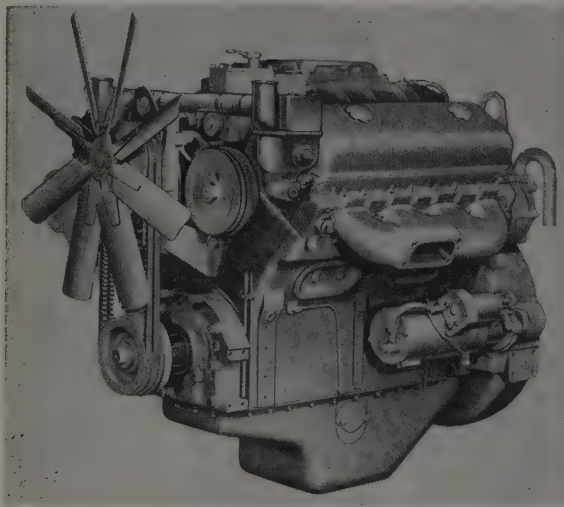
Featuring special design a new
pressor of Worthington Corp.
s the second stage compressor



under directly over the first stage.
is new addition to the Worthing-
ton line is Model 365 rotary
pressor and supplements cur-
rent Models 125, 210, 315 and 600.
The new unit has a silent chain

GM diesels applied to construction

Power requirements of the construction industry have been met by the addition of eight new basic units announced this month by **Detroit Diesel Engine Division of General Motors**. Formerly the line covered a range from 30 to 893 hp. and now the GM diesel line has been extended adding single, multiple and turbo-powered engines ranging all the way from 20



to 1,650 hp. With 13 basic engines and 6 multiple units in its line GM diesel has the widest range of engines ever offered by a manufacturer.

This development is of particular interest to the general construction and highway building industry because the engines now meet the power requirements in the lower ranges and also supply in compact packages the larger engines required by the bigger earth moving machinery. The new engines are made available after a 3-year program of design and testing.



Field testing on an Eimco loader

Four new V-type engines in the "71" series range from 252 to 675 hp. and a group of smaller engines range in power output from 20 to 195 hp.

Use of the V-type design, together with the 2-cycle principle provides new dimensions in compactness as well as lower weight per horsepower. For example, the new 334 hp. "V8-71" is almost 6 in. shorter and takes up about 8% less space than the 252 hp. "in-line"

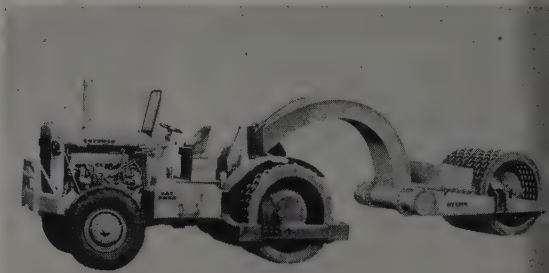
engine. Wide interchangeability of parts continues in the new line. For example in the entire line there are only three cylinder sizes.

Testing of the new engines as to performance under actual field conditions was carried out by installing them in various types of construction equipment, and under all types of conditions. One of the new diesels is shown being tested in an Eimco loader.

... Circle No. 2

Self-propelled Grid roller by Hyster

Designed to match today's yardage and capacity of modern earthmoving machines, a new DW-20A "Grid" Compactor has been announced by **Hyster Company**. It is a self propelled, high speed machine consisting of a Cat DW20 prime mover and two "Grid" wheels mounted on the driving axle with two corresponding "Grid" wheels in the towed unit. These wheels are cast alloy steel, heat treated. Ballast can be added



to the prime mover and the towed unit plus sand in the wheel cones to give wheel reactions of 30,800 lb. for the prime mover and 32,300 lb. for the towed unit. High operating speeds are possible from 6 to 15.3 mph, with recognized deep penetration, impact and kneading compaction. Width covered per pass is slightly over 10 ft. and the turning radius is 17 ft. The unit is able to obtain high densities with minimum number of passes and time.

... Circle No. 3

Cat D9 has life-time lubrication

A significant forward step in the evolution of heavy construction machinery is the announcement from **Caterpillar Tractor Co.**, that the D9 tractor is now equipped with lifetime lubricated track rollers, carrier rollers and idlers. Exclusive floating ring seals which metal to metal sealing surfaces make possible the elimination of all field lubricants. This increases machine availability and lowers maintenance cost through savings in man hours and materials.

The new rollers have been job tested for three years at the company proving grounds and throughout the country. This field testing has included highway jobs in Oregon and Arizona. The rollers and idlers work in all conditions, oftentimes around the clock for a 6-day week. These tests have indicated that the new rollers and idlers effectively seal out dirt, hold the lubricant, rotate easily, wear longer and have greater load carrying capacity. The floating ring seals which make use of special metals make possible the lifetime lubrication. Oil is added during assembly at the plant. When the roller has completed its full life it can be easily re-built, and until that time no lubrication is necessary.

... Circle No. 4

Clark Trans-Plant batcher

Featuring portability without lack of accuracy or strength, the Trans-Plant unitized batcher has been announced by Construction Equipment Division, Clark Industries. The plant can be transported from one job to another with standard highway trailer equipment and assembled in minimum time. The



plant is in three unitized sections: 1) the bin section with capacities from 80 to 150 tons and 3 to 6 compartments to suit the specific job; 2) the batching section with 3, 4, 5, or 6-yd. capacities, assembled in the factory with beam or dial scales and manual or automatic operations; and 3) the supporting section of simplified design using hinged columns which swing into position as the batching section is raised. With field bolts in position the top section is placed in position and the plant is ready for operation. Bracing on the supporting columns is designed to provide drive-through in either direction. Clark also manufactures a series of cement storage bins.

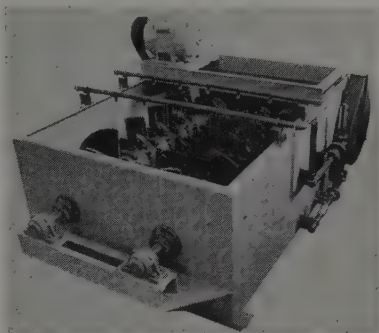
... Circle No. 253

Patch roads in any weather

An all-weather patching material for chuck holes, cracks and breaks in black top or concrete highway surfacing has been developed by The Monroe Company, Inc. Its MONOR-X can be applied in all types of weather even though the surface is wet or the temperature may be as low as 15 deg. The material can be applied quickly and sets immediately. Two grades are available, one for shallow depressions and the other for holes more than 2 in. deep. No prime coat is necessary and the area will take heavy loads at once. There is nothing to add or mix with the material as it is ready for use and can be stored for long periods of time. ... Circle No. 254

For plant-mixing base materials

Increasing demand for the plant mixing of road base materials has led the Eagle Iron Works to de-

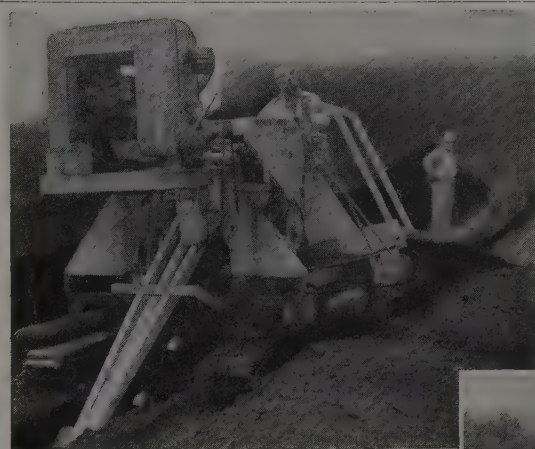


velop a mixer for this service which has been tested by aggregate producers and contractors. The mixer is designed to produce fine or coarse mixes stabilized with calcium chloride or other additives. This mixer has been designed for erection over a bin or mounted at an elevation

which would permit discharge directly into trucks. The mixer can be equipped with spray bar, flow meter, valves and piping as optional equipment. It is available in four sizes with capacities of 125 to 500 tons per hour. ... Circle No. 255

Electrodes for toughness

A new electrode—Mangjet—which will reduce cost and improve operations in welding manganese steel has been announced by Lincoln Electric Co. This electrode is suitable for building up manganese steel hard surfacing deposits on either manganese or carbon steels and will also make sound joints between two manganese steel parts or between manganese and carbon steel parts. It can be used with both ac. and dc. machines and is available in 5/32, 3/16 and 1/4-in. sizes. Deposits made with the Mangjet are 12 to 14% manganese steel with copper and molybdenum for additional toughness. ... Circle No. 256



Rugged, Inexpensive VERMEER POW-R-DITCHERS

If one of your problems is low-cost, time-saving trenching and ditching... take a look at the VERMEER POW-R-DITCHER line before you buy! The 524T (above) digs 8" to 24" wide. The 4T (right) digs 6" to 14" wide. Both are fast, rugged, self-propelled and low in price. Ideal for digging foundation footings, gas, water, sewage and service lines. A third smaller unit also available.

Write For Literature and Low Prices On The Complete Line

VERMEER MANUFACTURING COMPANY
1438 W. WASHINGTON
PELLA, IOWA

POW-R-DITCHERS DISTRIBUTED BY

B. HAYMAN CO.
Los Angeles, Calif.

M.F.D., INC.
San Jose, Calif.

MITCHELL, LEWIS & STAVAR
Portland, Oregon

... for more details, circle No. 111 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section



**Which
Size
For
YOU?**

News of DISTRIBUTORS



JOHN POST (left), manager of Cummins Diesel Sales Corp., appears here with **Bob Stillwell**, sales manager of the Denver distributorship. Post came to the distributorship in 1957, the same year that the company changed from a privately owned distributor to a member of the Cummins Diesel Sales Corp., a subsidiary of Cummins Engine Co., Inc. Department managers at Denver include **George Lovering**, service; **Don Cooper**, credit; **Marvin Turner**, office, and **Darrell Dye**, parts.

FWD appoints Utah dealer

A new dealer has been appointed by Four Wheel Drive Auto Co. to sell FWD's multi-wheel-drive trucks and other specialized vehicles in the West. Deseret Dodge Truck Center, Inc., Salt Lake City, Utah, headed by K. D. Bullock, will cover four southwestern Wyoming counties, three southeastern Idaho counties, and all of Utah except for two southeastern counties.

Montana firm provides convenient storage yard

Westmont Tractor Co. of Missoula, Mont., recently set up a 14-ac. equipment storage yard, 7 ac. of which are fenced in. Located on two highways and close to a railroad, the enclosure provides convenient storage for contractor's equipment, as well as for Westmont's used equipment inventory.

E. B. Mitchell heads Portland company

Edward B. Mitchell succeeds Gordon A. Kalk as president of Marine Specialties of Oregon, with headquarters in Portland.

Additional men and accounts at Salt Lake firm

Announcement is made by Rasmussen Equipment Co., Salt Lake City, of two additions to its personnel. Jimmy Jamison is a new sales engineer, and Bob Rasmussen has

been assigned to the parts department. Recent accounts added are: Jet Conveyor, Bull Moose Mobil Crane, and Skookum Blocks.

Two appointments by Western Machinery Co.

Western Machinery Co., one of the West's largest distributors of construction and road-building equipment, announces two top-level appointments. In Denver, H. A. Myers has been named operations manager with responsibility



Myers



Oman

for all sales in Colorado. He will also administer the distribution of an enlarged line of concrete aggregate processing equipment made by WEMCO. Before heading up the Denver office, Myers managed the Western Machinery office in Spokane. Taking over as sales manager in the Spokane office is Edward B. Oman. Before joining the distributorship in 1953 Oman was associated with Tinken Roller Bearing Co. and Star Machinery Co.

Jim Neal moves to Cummins Arizona Diesel in Phoenix

J. R. Neal has been appointed vice president and general manager of Cummins Arizona Diesel, Inc., Phoenix, as announced by Paul O. Miller, president of the statewide distributor of Cummins diesel engines in Arizona. Neal has been general manager of Cummins Service & Sales, Southern California distributor of Cummins products for the past thirteen years.

Spanall appoints distributor in Hawaii

Appointment of R. L. Castendyk Co. of Honolulu as exclusive agent for Spanall horizontal shoring and related construction equipment in the Territory of Hawaii is announced. Harold A. O'Callaghan, president of Spanall of the Americas, Inc., New York, who recently returned from Hawaii, reported that "The high rate of growth in the Islands is resulting in more and more commercial and industrial construction involving reinforced concrete slab work, and Spanall horizontal steel shoring is particularly advantageous for this type of form work."

H. C. Shaw opens Phoenix branch

The H. C. Shaw Co., distributor of Henry backhoes and loaders, and Arps trenchers, has opened a new branch warehouse in Phoenix, Ariz. This makes the third branch warehouse for Shaw established within the past five years. Others are at Fresno and at Santa Ana in California. Main office of the company is at Stockton, Calif. Ample stocks of equipment and repair parts appropriate to Arizona and southeastern California will be maintained at Phoenix.

E. E. Cornelison made general sales manager

Appointment of E. E. Cornelison as general sales manager of Western Equipment Co., of Boise, Idaho, is announced by G. M. Gehrke, general manager. Cornelison joined Western in 1950 and served as purchasing agent for the repair and maintenance division under contract to the Atomic Energy Commission at Idaho Falls. On completion of that assignment he was transferred to Boise in charge of the used equipment division. When Western Equipment acquired the Caterpillar dealership for eastern Idaho in 1956, Cornelison moved to Pocatello as district manager where

CONSISTENT QUALITY



RIVERSIDE CEMENT COMPANY
DIVISION OF AMERICAN CEMENT CORPORATION

621 SOUTH HOPE STREET • LOS ANGELES 17, CALIFORNIA • MADISON 7-5951

he has been until his recent promotion. Ernest Brooks, who has been associated with the heavy equipment industry in southern Idaho for several years, will replace Cornelison as Pocatello district manager.

Southwest Equipment Co. gets Worthington account

Worthington Corporation has appointed Southwest Equipment Co., Phoenix, Ariz., to handle distribution of construction equipment manufactured at their Plainfield, N. J. and Holyoke, Mass., plants. Worthington equipment to be distributed by Southwest throughout Arizona includes truck mixers, big mixers, portable mixers, contractors pumps, pneumatic placers, pavers and portable compressors.

Northwest firm changes name and lines

E. L. von Gohren announces a change of his firm's name, and also that the two lines now being handled are Soule' Steel Buildings and Anchor Chain Link Fencing. Von Gohren, formerly part owner and manager of Builders Metals, Inc. of Seattle, has been operating Yakima

Steel Fabricators in Yakima, Wash., but with the acquisition of his new lines is changing the firm name to Steel Building & Fencing Co.

Star Machinery names division manager

Appointment of Frank E. Proffitt as construction equipment division manager of Star Machinery Co., Seattle, Wash., is announced by Robert J. Norwalk, general sales manager. Proffitt has been active in the machinery sales field in the Northwest for several years.

Parker Co. distributes McKiernan-Terry line

Parker Equipment Co., Salt Lake City, has been appointed as McKiernan-Terry Corp.'s exclusive contract distributor for Utah. Well qualified by more than twelve years of construction equipment sales, Bob Parker, president, will promote the sale of the McKiernan-Terry line of steam, air and diesel pile hammers and accessory equipment.

New Trojan distributor in Idaho

The Yale & Towne Manufacturing Co. has appointed Intermoun-

tain Equipment Co., Pocatello, Idaho, to distribute its Trojan tractor shovel line. A full inventory of parts will be maintained by the new appointee.

WEMCO names new Southwest distributor

Equipment Supply Co., El Paso, has been appointed by Western Machinery Co. of San Francisco to distribute the WEMCO line of aggregate processing equipment in Texas west of the Pecos River and in southern New Mexico.

Pacific Mercury names Northern California distributor

Orchard Supply Co., San Jose, Calif., has been appointed a stocking distributor for Pacific Mercury electric plants. Well known distributor in the construction field, Orchard stocks representative models of Pacific Mercury electric plants developed specifically for use in this field and the industrial field. The company also maintains complete parts and service departments for customer convenience, according to K. J. Lewis, manager.

California distributor named

Announcement is made by Flodar Corporation, Cleveland, of the appointment of Calpacific Equipment Co., San Francisco, as exclusive distributor for northern and central California and western Nevada of Flodar tube and pipe fittings. The San Francisco firm specializes in the sale of "engineered" industrial products including a complete line of hydraulic equipment.

MANUFACTURERS

Technical service representative

Richard J. Doerman has been appointed technical service representative by Permanente Cement Co. for its Southern California sales division, making his headquarters in the Permanente sales office in Los Angeles.

Promotions in LeT-WESCO merchandising division

Seven men in LeTourneau-Westinghouse Co.'s merchandising division have received promotions, six of which are the direct result of the establishment of a new motor grader sales department. The seventh promotion is brought about by the merging of the parts and the service



WARN HUBS

on your 4-wheel drive
stop front end drag
in 2-wheel drive!

APPROVED

EQUIPMENT

Models for all makes of 4 w. ds. to 1½ tons at dealers. Write for literature.

PROVEN IN OVER A
BILLION MILES
 OF USE UNDER
ALL CONDITIONS!

NEW ECONOMY! NEW CONVENIENCE!

Save on repairs, tires, gas...get new pep, handling ease...with Warn Hubs, the original "selective drive." You'll be way ahead with either automatic LOCK-O-MATICS, or fingertip control Warn Locking Hubs. Unconditionally guaranteed.

WARN MANUFACTURING CO., Inc. Riverton Box 6064-WC1, Seattle 88, Wash.

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 See manufacturer's detailed listing in Yellow Section

partments. In this connection Lloyd A. Rager, formerly technical arts manager, was made general arts and service manager. His twin brother Lloyd A. Rager, advertising manager, has been named to manage the new motor grader sales department. He will be assisted by L. Cline, central area sales manager. Robert J. Fahey succeeds to line's former post, and Charles L. Petersen replaces Fahey as a district representative. Kenneth W. Christell, who has served as assistant advertising manager since 1956, succeeds Lloyd Rager as department manager. His former post is being led by David R. Harvey.

Whiteman and Napco make agreement on 4-wheel drive

Sherman Products, Inc., Royal Oak, Mich., manufacturer of wheel tractor-mounted earthmoving and materials handling equipment, has entered into a working agreement with Napco Industries, Inc., Minneapolis, Minn., for the sale and distribution of 4-wheel drive units.

Managerial appointments by International Harvester

Announcement is made by Harold T. Reishus, vice president of

the Construction Equipment Division, International Harvester Co., Chicago, of the appointment of W. O. Bechman as assistant to the general manager, and Merrill R. Bennett as manager of engineering of the division, Bechman's previous position.

Whiteman promotes George Teasdale

Appointment of George A. Teasdale as executive vice president and



George Teasdale

general manager responsible for manufacturing and over-all sales policy is announced by Marvin Whiteman, president of Whiteman Manufacturing Co., maker of concrete equipment at Pacoima, Calif. Teasdale has been with the company sixteen years, previously serving as sales manager.

Joseph R. Hutchinson becomes head of Denver firm

Joseph R. Hutchinson is the new president of Traffic Equipment Co. of Denver, Colo., said to be the nation's oldest and largest manufacturer of traffic control safety devices. Under the new ownership, Hutchinson will also act as director of sales. John Dilatush, former owner, will continue as general manager of operations.

PCA elects Cris Dobbins president

Cris Dobbins, president of Ideal Cement Co., Denver, is the newly elected chairman of the board of directors of the Portland Cement Association. He succeeds George E. Warren, president of Southwestern Portland Cement Co., Los Angeles, who served as chairman for the past two years.

Walter Black of IH heads new CIMA council

Walter W. Black, general service manager, International Harvester Co., Construction Equipment Division, has been appointed chairman of the newly organized CIMA Service Management Council, by Boyd S. Oberlink, president of the asso-

GLEDHILL

SOLVES EVERY SNOW PROBLEM

"V" PLOWS

from 8' to 9½' swath — nose heights 30" to 48"

WINGS

10' to 12' — partial or complete hydraulic control

TAPER PLOWS

9' to 12' length of cutting edge — full range of heights — reversible and adjustable or one-way

STRAIGHT PLOWS

reversible — 9' to 12' length — heights from 29" to 42"

COMBINATION PLOWS

hydraulic control in cab converts right hand taper to "V" and to left taper while plow is in motion

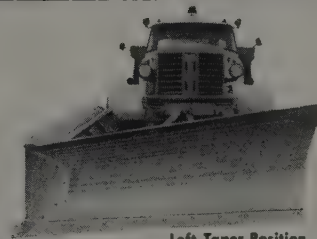
plus custom designs and sizes



"V" Position



Right Taper Position



Left Taper Position



FOR ADDITIONAL
INFORMATION WRITE

*RIGHT-V-LEFT FLOW

tested by Army Corps of Engineers
and Air Force at RACO

THE GLEDHILL ROAD MACHINERY CO.
Galion, Ohio

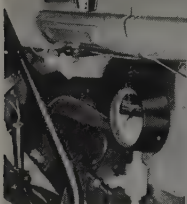
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DUMP TRUCK OPERATORS

Stop costly overloading or underloading... with ABC's Freewayer



The Freewayer—a revolutionary trouble-free hydraulic meter now enables you to tell instantly when you have reached the required load.



The Freewayer can be installed in about two hours and is adaptable to any hoist.

Please specify make of hoist when writing or calling for information.

Price—
\$99.00 including
Federal Tax
Discounts to dealers
and fleet owners.



Aluminum
body corporation

Mailing Address:
P.O. Box 28,
Montebello, Calif.
Telephone:
Raymond 3-4621

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See manufacturer's detailed listing
in Yellow Section



NEW! Pour footings and walls at SAME TIME

New Economy Footing Forms, combined with regular EFCO Forms, permit pouring footings and walls in one operation. Save time, money, materials.

SEND COUPON FOR INFORMATION

Economy Forms Corporation
Box 128, H. P. Station
Des Moines, Iowa

Please send literature on Economy Footing Forms, and address of nearest sales office.

Name _____

Firm name _____

Street address _____

City _____ State _____

... for more details, circle No. 116

See manufacturer's detailed listing in Yellow Section

ciation. CIMA, the Construction Industry Manufacturers Association, with headquarters in Chicago, represents 244 companies who supply equipment, supplies, materials, components or publications to the construction industry.

Chain Belt names new Western district manager

Chain Belt Co.'s Construction Machinery Section, Milwaukee, announces the promotion of Arthur

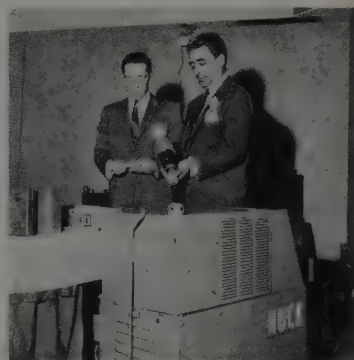


A. E. Schmidt

E. Schmidt to district manager of the Western territory which includes Washington, Oregon, Idaho, Nevada, and Northern California. Schmidt has been with the company for more than eleven years, and for the last two has concentrated on sales of Rex paving equipment.

C. S. Johnson holds sales school

C. S. Johnson Co., Champaign, Ill., announces the opening of a four-day sales engineer school as a



DEMONSTRATING prototype fasteners and fastening power tools for the construction industry at a three-day symposium sponsored by Huck Manufacturing Co., in Los Angeles are, l. to r. George Q. Mathews, vice president and sales manager, and Richard A. Villacres, Western division sales manager. Among new but not yet generally available fasteners previewed were large diameter high-tensile Huckbolts that provide high strength, reduced installation cost, and faster installation. Several new and proposed fastening applications were also revealed, among them a sheet aluminum structure proposed as a new approach to highway bridge construction.

permanent part of the Distributor Sales Assistance and Training program. Each new class will start with a formal breakfast at which A. J. Vincent, general manager, and H. E. Buckler, sales manager, will welcome the students. Built around moving pictures, slides and charts, the program will also feature lectures by T. B. Apel, chief engineer. Several new batch plants will be introduced during these classes and students will spend some time at the Johnson factory inspecting the equipment in production.

R. P. Nichols joins Preco

Preco Incorporated, Los Angeles, announces the appointment of R. P. Nichols as product sales director for the industrial sales division.



R. P. Nichols

This division produces and distributes a line of dozer back rippers as well as an automatic blade control for use on Caterpillar No. 12 motor graders. A civil engineer, Nichols brings to Preco much experience in heavy equipment sales and construction. Before joining the firm he was industrial sales manager for Peterson Tractor Co., San Leandro, Calif. His background also includes sales positions with Movall Division of Yuba Manufacturing Co., and R. G. LeTourneau, Inc., and eight years with Caterpillar Tractor Co.

Sales appointments by Esco

Bryan E. "Barney" Shirley is the new resident salesman for the San Diego, Calif., area of Electric Steel Foundry Co.'s Southwestern sales district. He has twelve years experience with Esco in the production and sales departments in the Portland, Ore., area. Also announced is that Edward D. "Dean" Naylor has joined the Southwestern sales district as resident salesman, making his headquarters in Carlsbad, N. Mex. He will service Esco construction equipment dealers in the eastern two-thirds of New Mexico and western Texas.

Kelly made Duff-Norton district sales manager

Promotion of A. M. Kelly to district sales manager in San Francisco has recently been announced by Duff-Norton Co., a leading manufacturer of lifting jacks and hoists. Kelly, who joined the company in 1955, will be responsible for sales activities in the Jack Division and the Hoisting Hoist Division in California from the Sacramento south.



Marshall



Snow

ATLAS COPCO PACIFIC, Inc., advanced its business manager, William D. Marshall, and its construction sales manager, Paul Snow, to vice presidents of the corporation at its annual meeting recently. Marshall has been with the company since its inception in 1950. Snow, a former construction engineer with Morrison-Knudsen Co., Inc., joined the Western construction equipment firm two years later.

Northwest promotions by Permanente

Expansion of its Pacific Northwest Sales Division is announced by Permanente Cement Co. at Seattle. Promoted to sales supervisor in charge of the division's newly created Washington district is Leo McNett, a 13-year veteran with Permanente. Douglas S. Ashton, who joined the company in 1947, has been promoted to sales supervisor in charge of the Oregon district with headquarters in Portland.

Ginter heads White Diesel's Seattle branch

Harold R. Ginter has been named Seattle branch manager for White Diesel Engine Division of White Motor Co., following the retirement of Fred Hudson.

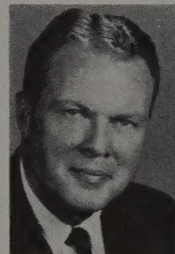
C.I.T. names Northwest rep.

Orville E. Rowland, Jr. of Portland has been appointed field representative of C.I.T. Corporation, nation's largest financing firm handling installment financing of contractors equipment as well as all kinds of machinery used in industry and commerce. Rowland makes his headquarters at the

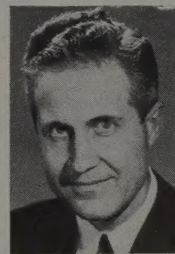
C.I.T. division offices in Portland, and will work with buyers and sellers of equipment in the Portland area and in southern Washington.

Bucyrus-Erie elects Allen president; Black promoted to sales manager

The board of directors of Bucyrus-Erie Co. has elected Robert G. Allen as president in charge of all operations, succeeding William L.



Allen



Black

Little who continues on as chairman of the board. Allen joined Bucyrus-Erie in 1957.

Also recently announced is the promotion to the post of domestic sales manager of Lewis C. Black. A member of the B-E organization since 1935, Black had been manager of sales for large excavators.

(Continued on page 198)

SKOOKUM

CONSTRUCTION BLOCKS AND FORGINGS For Every Purpose

All Skookum Blocks Built to 5-to-1 Safety Factor. Hadfield Manganese Steel Sheaves.

T-Series Blocks
Lightweight Haul-back Blocks; 6" to 12" sheaves. Timken bearings.

S-Series Blocks
Snatch Blocks, 6" to 10" sheaves. Choice of bronze, roller or Timken bearings.

A-Series Blocks
Utility Blocks, 4" to 12" sheaves, bronze bushing.

Hoisting Blocks.
Single, multiple sheaves, any size. All types hanging devices and swivel hooks.

Swivel Hooks
Closed bearing, swivel shackle.

Swivel Hook with Headache Ball
Ball weights: 100-400 lbs.

Screw Pin Shackles
Hex-Head or Eyed Pin. All sizes.

WE'LL BUILD ANYTHING IN BLOCKS, FAIRLEADS, FORGINGS

Quality Products Since 1890

The SKOOKUM-CO., Inc.

8524 N. CRAWFORD, PORTLAND, OREGON • 647 TERMINAL AVE., VANCOUVER, B. C. U.S.A. CANADA

... for more details, circle No. 117 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

WESTERN CONSTRUCTION—January 1959

MULLER MACHINES

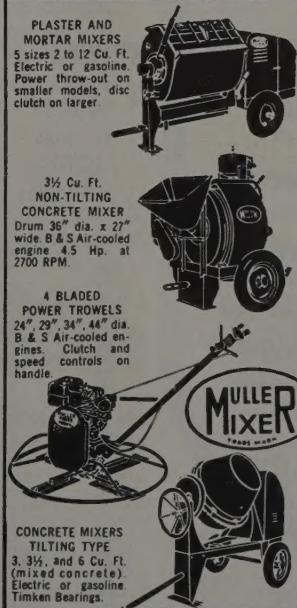
are money makers from every angle

HIGH OUTPUT—You make money on all jobs because these efficient, powerful units do your work quickly, smoothly, profitably.

LOW MAINTENANCE—You save money because these machines can take the everyday beatings of continuous service, under all conditions, with an absolute minimum of attention.

LOW PRICE—You save money initially because no other machines of comparable quality are priced lower than Muller Machines—the best light construction equipment money can buy.

In addition to the machines illustrated, Muller Construction Equipment includes: Builders' and Roofers' Hoists • Floor and Tower Hoppers • Concrete Carts • Portable Space Heaters • Foundry Core Sand Mixers



For prices and other information consult your local distributor.

MULLER MACHINERY COMPANY, INC.

248 Whitman Avenue, Metuchen, N. J.

... for more details, circle No. 104 on Reader Service Postcard

UNIT PRICES

HIGHWAY—3.1 mi. of grading and drainage

Wyoming—Sheridan County—State. Asbell Bros. Construction Co. of Riverton received an \$881,930 contract for grading and drainage on 3.1 mi. of 4-lane divided highway on the Sheridan-Ranchester road.

(1) Asbell Bros. Const. Co.	\$881,930
(2) J. H. Beckman Const. Co.	953,686
Big Horn Const. Co.	984,315
Kniskely-Moore Co.	994,109

	(1)	(2)
2,151,000 cu. yd. Excavation	\$.19	\$.25
1,625 hr. Mechanical tamping	5.00	7.00
57,650 M gal. Watering	1.00	1.00
1,000 cu. yd. Excavation for pipe culverts	1.25	2.00
650 cu. yd. Subexcavation	1.00	3.00
907,500 cu. yd.-mi. Cubic yard mile haul	.12	.10
0.4 mi. Old road obliteration	400.00	1,200.00
2,000 hr. Sheeps foot roller operation	10.00	10.00
3,600 hr. Pneum. tired roll op. type VII	11.00	11.00
75,000 cu. yd. Stripping and storing topsoil	.16	.10
75,000 cu. yd. Replacing topsoil	.25	.15
3,940 lin. ft. 24 in. cmp.	4.28	5.00
360 lin. ft. 24 in. cmp. 12 gauge	5.45	6.00
210 lin. ft. 36 in. cmp.	8.20	9.00
494 lin. ft. 42 in. cmp.	10.22	10.00
720 lin. ft. 48 in. cmp.	11.86	13.00
1,166 lin. ft. 54 in. cmp. 12 gauge	14.65	15.00
510 lin. ft. 54 in. cmp. 10 gauge	17.52	19.00
506 lin. ft. 66 in. cmp. 8 gauge	25.10	28.00
73 ea. 24 in. cmp. FE section	40.00	40.00
4 ea. 36 in. cmp. FE section	97.00	100.00
4 ea. 42 in. cmp. FE section	163.75	170.00
8 ea. 48 in. cmp. FE section	194.00	200.00
50 lin. ft. 58 x 36 cmp. arch culverts	13.27	13.00
28 lin. ft. 65 x 40 cmp. arch culverts	17.00	16.00
2 ea. 58 x 36 cmp. arch FE section	135.85	130.00
2 ea. 65 x 40 cmp. arch FE section	204.35	210.00
Lump sum Removing existing structures	...	...
400 cu. yd. Class 1 riprap	11.00	8.00
200 cu. yd. Grouted riprap	17.00	13.00
400 sq. yd. Grouted rubble paving	10.00	10.00
35,500 lin. ft. 32 in. woven and 3 BW fence	.25	.28
35 ea. End panels	14.00	25.00
55 ea. Brace panels	7.00	20.00
4 ea. 7 ft. 9 in. x 24 ft. HD catclgls.	900.00	3,000.00
30 ea. Right of way markers	10.00	20.00
1 ea. Rein. conc. project markers	25.00	30.00
1 ea. Type D drop inlets	100.00	60.00
20 ea. Trash guards type B	60.00	50.00
4,400 lin. ft. Concrete ditch lining	21.97	10.00
1 ea. 7 ft. 9 in. x 16 ft. HD catclgls.	750.00	2,200.00

HIGHWAY—8.3 mi. of grading and paving

New Mexico—Guadalupe County—State. Adams Construction Co., Inc., of Santa Fe, received a \$1,398,674 contract for grading and bituminous surfacing of 8.1 mi. of Highway 1-40.

(1) Adams Construction Co.	\$1,398,674
(2) Brown Construction Co.	1,408,411
J. W. Jones	1,422,680
Skousen-Hise & Skousen & Son	1,517,966

	(1)	(2)
Lump sum Removal of old structures	\$2,500.00	\$20,000.00
656,050 cu. yd. Excavation—unclassified	.39	.40
8,160 cu. yd. Excavation for structures	2.00	1.50
42,356 M gal. Watering	.50	.50
1,745 hr. Rolling (tamping roller)	6.00	5.00
2,786 hr. Rolling (pneumatic tired)	4.00	5.00
1,800 hr. Rolling (steel tired)	5.00	5.00
2,436 hr. Fifty (50) ton roller operation	6.00	5.00
1,303 hr. Mechanical tamping	5.00	7.00
1,121,100 sta. yd. Station yard overhaul	.02	.02
935,580 ¾ mi. yd. Quarter mile yard haul	.04	.05
2,268,940 ton mi. Ton mile haul	.06	.06
0.2 mi. Obliterating old road	100.00	500.00
600 lin. ft. Contour ditches	.10	.30
717 cu. yd. Wire enclosed riprap	10.00	12.00
18,575 lb. Wire fabric for riprap	.30	.30
158 cu. qd. Excavation for riprap	10.00	2.00
1,510 lin. ft. Steel stakes for riprap	2.00	2.00
1 ea. Cattle guard—18" roadway	2,000.00	2,000.00
962.5 lin. ft. Steel plate guard fence	4.00	3.50
41,080 lin. ft. Galvanized barbed wire fence	.34	.20
2 ea. Gates—standard type	50.00	50.00
94 ea. Bracing	6.00	10.00
29,010 lin. ft. Galvanized wov. wire farm fence	.44	.22
37 ea. Right of way markers	6.00	6.00
1 ea. Std. fed. aid proj. mark's, type I	50.00	75.00
56 ea. Treat. tmb. warn. posts, relf. 6"	7.00	6.00
211,455 ton Controlled gradation sub-base	.45	.50
77,250 ton Base course	.60	.70
3,567 bbl. Bituminous material, type MC-1	8.25	7.95
1,131 bbl. Emulsified asphalt AE-3	9.00	10.40
1,168 bbl. Bituminous matrl., type 120-150	9.00	8.80
2,045 bbl. Cover material	5.00	6.00

48,280 ton Plant mix surface course	3.40	3.70
17,575 bbl. Bit. mat., type 85-100 (plt. mix)	7.10	6.85
3,035 cu. yd. Class A concrete	56.00	47.00
6 ea. Concrete tables	200.00	200.00
12 ea. Concrete benches	150.00	100.00
456,839 lb. Reinforcement for concr. struc.	.15	.13
2,050 cu. yd. Grouted rock retard's	10.00	5.00
1,514 lin. ft. Culvert pipe—24" diam.	8.00	7.00
540 lin. ft. Culvert pipe—30" diam.	9.00	8.00
170 lin. ft. Culvert pipe—42" diam.	16.00	14.00
804 lin. ft. Culvert pipe—48" diam.	18.00	15.00
240 lin. ft. Cor. met. culv. pipe—36" diam.	14.00	13.00
3,952 lb. Structural steel	.40	.50
16 ea. Remov., reset, rept. R-W mrk.	5.00	6.00
2,530 sq. ft. Extruded sign frames	2.25	3.10
4,832 lb. Aluminum I beam posts	.80	1.00
1,120 lin. ft. Tubular posts	1.50	1.90
78 ea. Footings for tubular posts	7.00	2.00

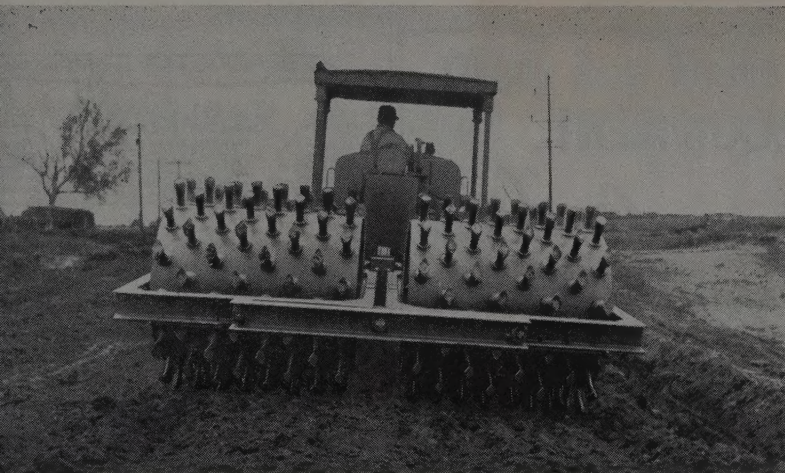
HIGHWAY—2.671 mi. of bituminous road in Utah

Utah—Morgan—State. Morrison-Knudsen Co., Inc., submitted the low bid of \$972,011 for construction of a 3½-in. plant-mixed bituminous surfaced road 2.671 mi. long, with one concrete structure.

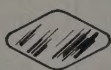
(1) Morrison-Knudsen Co., Inc.	\$ 972,011
(2) Peter Kiewit Sons' Co.	1,021,342
W. W. Clyde & Co.	1,131,828
Gibbons & Reed Co.	1,208,889

	(1)	(2)
29,000 ton Plt. mix bit. surface, type A	\$ 2.85	\$ 2.95
1,448 ton Bit. mat., type 120-150 pent.	34.00	32.00
62 ton Bit. mat., type MC-1 or MC-2	40.00	33.00
179 ton Bit. mat., type RC-1 or RC-2	40.00	34.00
85 ton Bit. mat., type RC-2	42.00	38.00
132,400 sq. yd. Portland Cement treated base course, 4" thick	.25	.20
12,000 sack Portland Cement type 1 for Port. cmt. trtd. base crse.	1.20	1.25
60,000 ton Gravel surface, type B	.74	1.05
9,800 ton Gravel surface, type A	.74	.80
41,200 ton Gravel base course	.72	.99
350 ton Cover material, type D	2.50	6.00
397,000 cu. yd. Unclassified roadway excv.	.78	.89
1,460,000 sta. yd. Class A overhaul	.015	.015
176,000 yd.mi. Class B overhaul	.18	.20
3,500 M gal. Watering	1.25	1.50
700 hr. Rolling, tamping roller	12.50	10.00
50 hr. Rolling, 50 ton roller	12.50	15.00
375 hr. Rllng., pneum. tire or pwr. rllr.	8.50	10.00
250 hr. Self prop. pneu. tired roller	8.50	9.00
657 lin. ft. 18" reinf. concrete pipe	4.50	5.00
987 lin. ft. 24" reinf. concrete pipe	6.00	7.00
438 lin. ft. 30" reinf. concrete pipe	8.80	10.00
353 lin. ft. 36" reinf. concrete pipe	20.00	21.00
120 lin. ft. 36" C.M. pipe (8-g.)	...	...
6 ea. Jack under railroad	74.00	71.00
12 ea. 18" reinf. concrete end sec.	50.00	52.00
2 ea. 24" reinf. concrete end sec.	68.50	70.00
6 ea. 30" reinf. concrete end sec.	100.00	100.00
2 ea. 48" reinf. concrete end sec.	200.00	215.00
79 cu. yd. Concrete class A	80.00	70.00
58 cu. yd. Concrete class AA	80.00	74.00
16,400 lb. Reinforcing steel	158	.14
40,100 lb. Structural steel	175	.20
0.648 MFBM Lumber (treated)	250.00	450.00
1,100 cu. yd. Excavation for struc., unclass.	7.90	4.00
1,000 cu. yd. Small ditch excavation	1.25	.60
120 hr. Mechanical tamping	8.50	10.00
2,752 lin. ft. Deep beam highway guard rail (concrete posts)	3.30	4.00
4,748 lin. ft. Dbl. deep beam hgy. guard rail (concrete posts)	4.90	5.00
265 ea. Delineator, type 1	8.00	10.00
51 ea. Delineator, type 2	9.00	12.00
2 ea. Delineator, type 3	10.00	15.00
1,224 lin. ft. Concrete curb, No. 1-F	1.70	2.00
90 ea. Right of way markers	7.00	11.00
34,300 lin. ft. Right of way fence, type B (metal posts)	.40	.40
2 ea. 14" gates	50.00	55.00
10 ea. 16" gates	62.00	60.00
2 ea. Top soil	.60	.63
75 acre Clearing and grubbing	60.00	25.00
2 ea. E.A.P. markers	25.00	25.00
58 ea. Guide posts	7.50	8.00
lump Furnishing water equipment	10,000.00	1,500.00
lump Furnishing construction signs	3,000.00	3,000.00
(1) Concrete structure 157' 0 to 0, station 331+00	4.50	3.50
Excv. for struc., unclass.	68.00	60.00
2 ea. Concrete, class A	158	.14
264,650 lb. Reinforcing steel	.34	.40
19,000 lb. Structural steel	12.70	12.40
668 lin. ft. Steel handrail	6.80	7.00
7,036 lin. ft. Piles (other than timber)	5,670.00	5,000.00
1 lump Furn. pile driving equipt.	...	...

New BROS relief shank tamping foot provides full compaction effort and less drag



No area above the Diamondfoot comes in contact with the soil to alter psi rating; further, rolling drag and material pick-up are minimized.



The leading and trailing edges of the Diamondfoot make easy foot penetration and withdrawal in heavy soils.



Cross-section dimensions of the Diamondfoot are greater than any cross-section dimensions of the tapered shank.

● Stress-relieved shank of the new BROS Diamondfoot design has two major advantages for earthwork compaction. Here's why:

First; to produce the lbs. per sq. in. foot pressure required by subgrade sheepsfoot rolling specifications, the BROS design permits the *full* compaction force of the roller drum to be exerted at the *bottom* of the foot — and not dissipated by shank contact with the soil materials. *That's because the Diamondfoot has a larger cross-section than any cross-section of the reverse tapering shank.*

Second; this design minimizes rolling drag because in penetration and withdrawal, the Diamondfoot edge design provides the least disturbance to the soil. Too, by reverse tapering, the shank is load relieved and the heavy soil materials have little chance to cling.

Other important features of this engineered Diamondfoot Roller include: Unitized drum and axle; non-adjusting, sealed, self-aligning ball bearings, *outside mounted*. Adjustable and reversible cleaner teeth provide extra long service life.

BROS Diamondfoot Rollers range in sizes from 133 psi to 724 psi foot pressures. Your nearest BROS Dealer has all the details. Or write us. Worldwide sales and service.



BROS Incorporated

— ROAD MACHINERY DIVISION

1057 TENTH AVENUE S.E. • MINNEAPOLIS 14, MINNESOTA

... for more details, circle No. 122 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

See THESE
BROS DISTRIBUTORS

**ARIZONA EQUIPMENT SALES,
INC.**

Phoenix, Arizona

BLAKAMORE EQUIPMENT CO.
Oakland, California

COAST EQUIPMENT COMPANY
San Francisco, California

CROOK COMPANY
Los Angeles, California

**WESTERN EQUIPMENT
COMPANY**

Boise, Idaho Falls, Idaho

**WESTERN CONSTRUCTION
EQUIPMENT CO.**

Billings, Great Falls, Montana

**THE HARRY CORNELIUS
COMPANY**
Albuquerque, New Mexico

**PIONEER EQUIPMENT
COMPANY**
Reno, Nevada

**LOGGERS AND CONTRACTORS
MACHINERY CO.**
Portland, Oregon

TOTEM EQUIPMENT CO.
Seattle, Washington

**KEREMI TRACTOR AND
EQUIPMENT CO.**
Casper, Cheyenne, Wyoming

**FARIS-MORITZ EQUIPMENT
CO.**
Denver, Colorado

CLASSIFIED

Rates are \$15.50 a column inch. Copy should be sent in by the 15th of month preceding publication date.

Space is sold as advertisers inches. All advertisements in this section are 1/8 in. short of contracted space to allow for borders and composition.

For the FINEST in NEW and USED CONSTRUCTION EQUIPMENT

CALL . . .

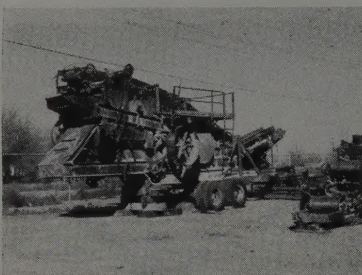
Sively
EQUIPMENT COMPANY



Austin-Western Portable Crushing and Screening Plant, Model 101, 1036 Jaw Crusher, 3018 Roll Crusher, 2 1/2 deck 4' x 12' Screen, 18" x 20' Sand Reject Conveyor, 30" x 50' Portable Delivery Conveyor, 30" x 40' Portable Feeder Conveyor, 21 yard single compartment Bin, Mechanical Feeder and Caterpillar D-17000 Power Unit. This unit has been overhauled and a new Raft Wheel installed.

Two E-16 Le Tourneau Scrapers only with Electric Motors.

Sively
EQUIPMENT COMPANY



Pioneer Portable Crushing & Screening Plant, Model 40-V, 1036 SKF bearing Jaw Crusher, 4022 SKF bearing Roll Crusher, 3 1/2 deck Vibrating Screen, 30 G Mechanical Feeder, 30" x 60' Portable Delivery Conveyor, 30" x 50' Feeder Conveyor, Caterpillar D-337 Power Unit. This plant has been completely overhauled and a new Vibrating Screen installed.

2601 Fourth St., N.W.
ALBUQUERQUE, NEW MEXICO
1708 E. Bassett St.
EL PASO, TEXAS

Riverside installs latest electronic equipment

As the first step toward fully automatic control of a cement manufacturing plant, the Riverside Cement Co., a division of American Cement Corp., is installing an RW-300 Digital Control Computer system, according to announcement by J. M. Kinard, president. The electronic computer will guide the operation of a fully mechanized rock blending facility now being completed at the company's Oro Grande, Calif., plant, and will also provide information to guide quarrying operations. The new computer, the rock crushing and blending system, together with increased kiln capacity in the spring are the latest in a series of improvements to the Oro Grande plant.

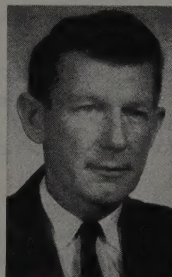
Evans and Osborne head Galion service department

Charles O. Evans, who for some time has been service manager of The Galion Iron Works & Mfg. Co.,

Galion, Ohio, is now being assisted by Carl Osborne, formerly with the



Evans



Osborne

service department of Clark Equipment Co. Evans was for several years the Galion district representative in the Pacific Northwest. Osborne brings to his new position a great deal of knowledge and experience with torque converters and power shift transmissions.

K. R. Peck heads Kaiser Division

Kendall R. Peck has been appointed general sales manager for

LOW COST INSTALLATION AND OPERATION

CABLEWAYS
IMMEDIATE SHIPMENT
ELECTRIC, STEAM OR DIESEL
CAPACITY: 5 TO 20 TONS
SELL, RENT OR BUY

FOR DAMS, BRIDGES, BREAKWATERS, FILTRATION AND SEWERAGE PLANTS

AMBURSEN DAM CO. INC.
295 MADISON AVE. NEW YORK

FOR SPEED, ECONOMY, EFFICIENCY, FLOOD SAFETY, LABOR REDUCTION

Kaiser Steel Corp.'s fabricating division plant at Montebello, Calif., where he formerly served as a sales engineer.

Insley names Northwest rep.

Appointment of J. Leo Lamley as district sales representative is announced by the Insley Manufacturing Corp., manufacturer of shovels, cranes, concrete handling equipment, etc. With headquarters located in Olympia, Wash., his territorial coverage will include Washington, Oregon, Idaho, Montana, Alaska and western Canada.

W. F. Hall becomes IH assistant sales manager

Willard F. Hall has been named assistant sales manager of International Harvester's Construction Equipment Division. Hall has been Central Region sales manager of the Division for the past three years. He began his IH service in 1939, served in various district offices and for a while was in the company's Chicago general office as general service supervisor of construction equipment.

Beatty Scaffold forms distributor company

David E. Beatty, president of Beatty, Scaffold, Inc., announce the formation of a new franchise distributorship headed by Fred B. Bain. The headquarters operation of the new company Beatty Scaffold Distributors, located in Sacramento, is under the management of Fred B. Bain, Jr., with service covering the valley area from Redding to Bakersfield. Beatty recently completed negotiations to handle distribution throughout the West of new type of horizontal shoring beam and a giant construction crane, both of German manufacture.