

WESTERN

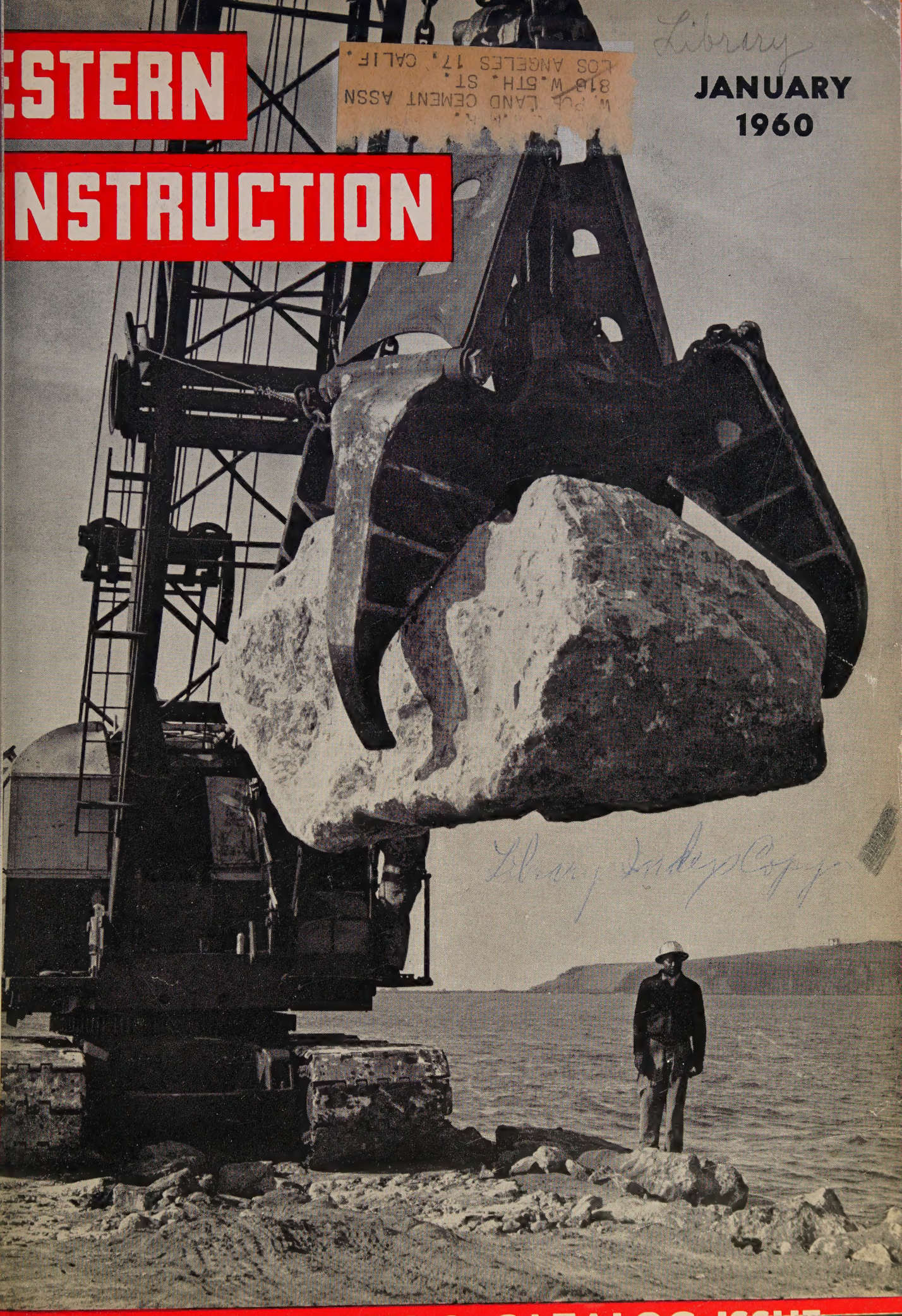
CONSTRUCTION

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**JANUARY
1960**

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Seven-foot IH Bullgrader is raised, lowered, angled, and tilted hydraulically—with complete control of all actions from the tractor seat.



The exclusive International Drott 4-in-1 combines standard $\frac{3}{4}$ cu yd bucket, plus clamshell (shown), carry-scraper, and bulldozer, all in one machine.

Big tractor brawn...budget priced

Now you can have International® tractor power and rugged dependability in a small, low-cost crawler! It's the International T-340... leading its field in power, speeds, and stamina.

The husky four-cylinder engine delivers 31 drawbar hp... up to 6,400-lb drawbar pull while giving the best fuel economy in its class. Trigger-quick governor responds instantly to sudden load demands.

Handle all those scattered, small-yardage jobs with greater economy... greater profit... by giving them all to the sturdy, hustling T-340. A wide range of matched-to-tractor equipment fits the T-340 to many of the jobs now assigned to larger, more costly power. Ask your IH dealer for a T-340 demonstration!

Power train and track assembly are designed to be tractor specifications for long, trouble-free life.

For heavy drawbar pulls, you can equip the T-340 with Torque Amplifier for 10 forward speeds... let the operator boost pull-power up to 45% without shifting, *on-the-go*, in any gear. Or, specify Fast Reverser in place of TA... get five speeds coming and going to speed up all shuttle-type work.



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SMALL TRUCKS AND CRAMPED QUARTERS...



CAN'T HOLD THESE RIGS BACK!

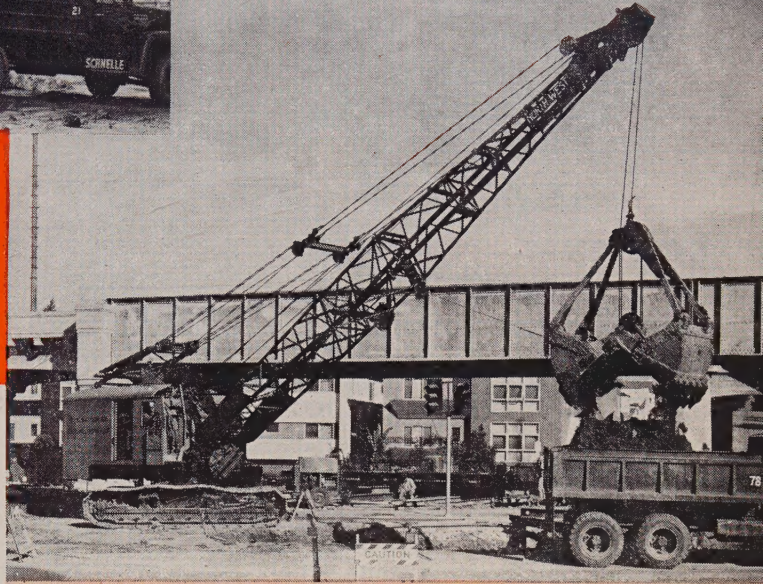
THERE is no better Northwest salesman than the performance of old Northwest veterans. The Wattson Co. of North Hollywood, Calif. found themselves with a 2½ million dollar box culvert and a 10 year old Model 6 Northwest still giving them excellent service. As a result of the Model 6 performance over the years, two new Northwests—a Model 80-D and a 95—were bought to handle the box culvert contract.

The job is two miles of box culvert running up to 10 ft. in width and 14 ft. deep. There were 150,000 cu. yds. of material to move.

Because of cramped quarters and city restrictions that hold the trucks down to 10 cu. yds., the 80-D is moving an average of 1,000 yds. every 8 hours. Although restrictions don't hold Northwests back! For ease of operation and upkeep, their speed on the job, and that wonderful ability of always being ready to go combine to give high output, not just by the hour, but by the week and the month. Northwests make money! They bring you the performance that only the finest in machinery can bring.

About Northwest's advances in design. Let a Northwest man bring you up to date.

NORTHWEST ENGINEERING COMPANY
135 South LaSalle Street, Chicago 3, Illinois



The old Model 6 cleans out ditch with a clamshell.

Mr. James Wheeler is the operator on the 80-D. He has operated major rigs for 16 years. He says, "I sure like the Feather-Touch Clutch Control. It makes the rig easy to operate."



P-80-12

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WESTERN KING CONSTRUCTION

JANUARY

1960

Vol. 35 No. 1

CONTENTS

California's first slip-form highway job	41
The problems, new techniques, new machinery and success of the first section of concrete highway placed without header boards. The 19-mi. full-width road was built by Gordon H. Ball.	
A practical guide to hardfacing	46
Review of hardfacing materials, uses, and welding tools including charts of material applications and do's and don'ts of hardfacing.	
Rock bolting application in construction—Part I	52
An authoritative article that describes the latest developments in this modern means of underground supporting, with direct job descriptions and details (Part II will appear in February).	
RIPPING—latest methods and procedures	58
In this fast moving preliminary to excavation, the developments of the last few years are brought up to date with special attention to the use of seismic exploration.	
Sand drains for Salt Lake City freeway	66
Operators' school now part of construction industry	72
Photo Story: Candlepower for Candlestick Park	78
1960 EQUIPMENT CATALOG & DIRECTORY	Following 102
The 11th edition of Western Construction's cross-referenced listing of where equipment is manufactured and where it is sold and serviced.	

COVER—Single stone weighing 42,700 lb. held in mid-air by Lima crane equipped with Owen grapple. Stone will be placed in Half-Moon Bay (Calif.) breakwater, Corps of Engineers small harbor project handled by Healy-Granite Construction Co. See page 75.
Corps of Engineers Photo

New Equipment	14-80-192	Engineers and Contractors	176
The West from Washington	24	Supervising the Jobs	178
Editorial Comment	39	Construction Briefs	184
News	164	Master Mechanic	186
Hawaii Report	168	New Literature	188
Alaska Newsletter	170	News of Distributors	200
Low bids and contract awards	172	Classified Advertising	206

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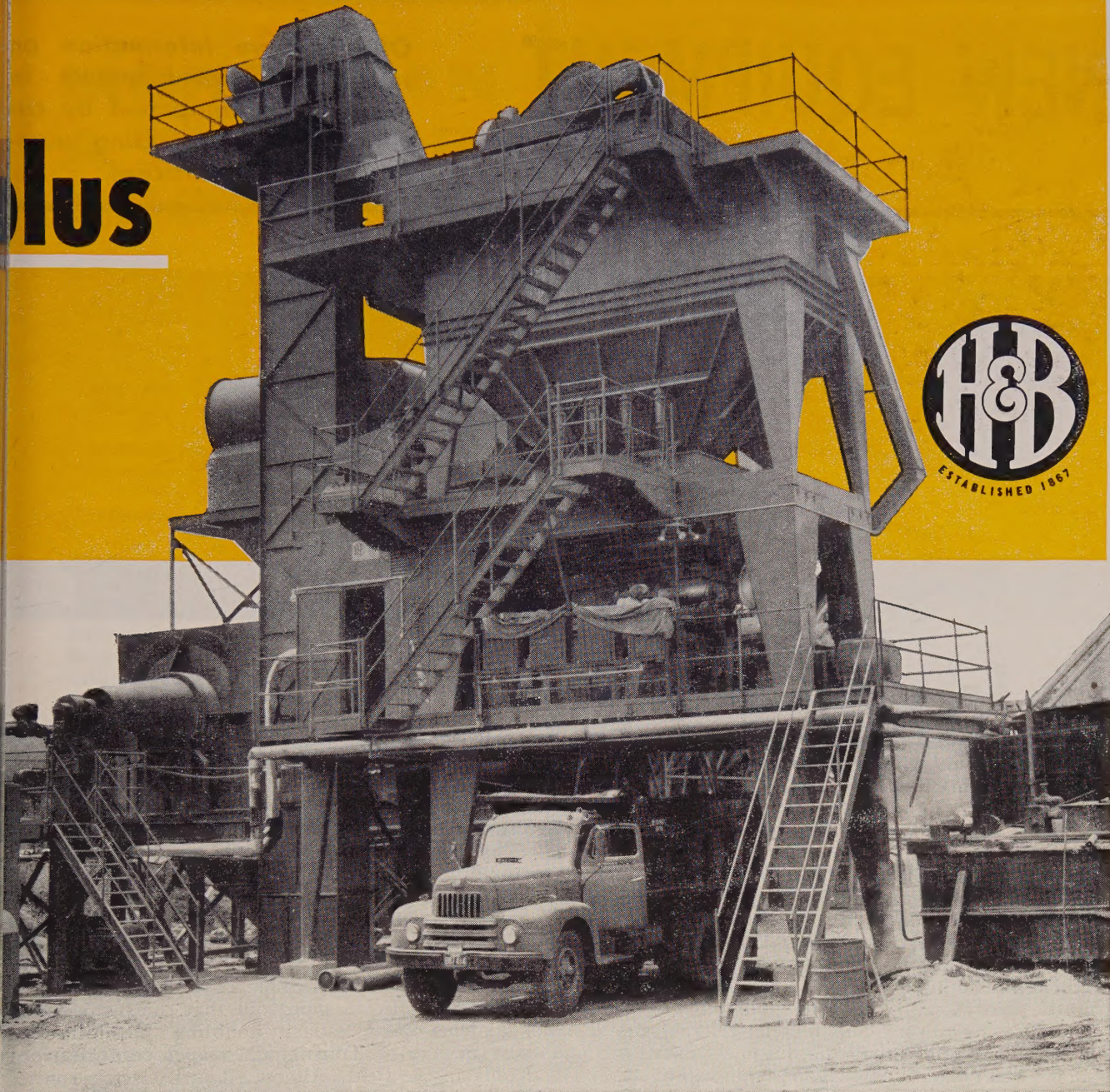
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NEW . . . Larger Hot Elevator—Increased capacity, with new type chains and buckets.

NEW . . . Larger Dryers—All models offer larger dryers, with lifter flight modifications to allow better air flow and improve aggregate distribution.

NEW . . . Oil Burners—Maxon—Low Pressure.

● **NEW . . . Dryer Feed Hood**—Sealed to eliminate air leaks. Also internal chute to return dust to drum and eliminate accumulation in hood.

● **NEW . . . Fugitive Dust System**—Ducts built into elevator casing with separate exhausters and individual controls on all ducts.

● **NEW . . . Tower Stability**—Less screen overhang means less vibration. On the large screens, a dynamic braking system eliminates tower sway when screen stops.

● **NEW . . . Relocated Dust Elevator**—On same side as hot elevator, so return from dust collector can be put into hot or dust elevator as desired, without use of conveyor.

● **NEW . . . Electric Control Center**—Integral part of tower structure, with permanent wiring for mixer, air compressor, cycle control on mixer.

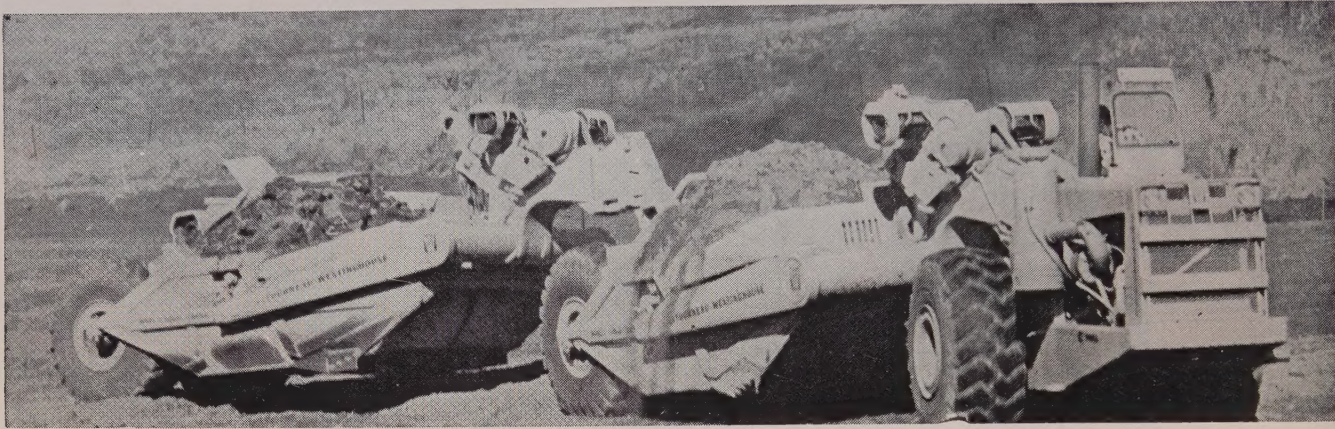
● **NEW . . . Optional Reject Bin**—For oversize from screen, with chute mounted on aggregate bin. Discharge to back of tower at driveway.

wholly owned subsidiary of AMERICAN HOIST & DERRICK CO.

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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.



L-W introduces its tandem scraper

With the announcement of tandem scrapers—**Le Tourneau-Westinghouse Co.** has virtually doubled the number of machines it offers in its earthmoving equipment line. Tandems are currently available behind all three sizes of the company's two-wheel Tournapull prime movers, as well as with the recently introduced four-wheel Speedpull. Total capacities with the tandems range from 18 cu. yd. in the D size to 56 cu. yd. in the model B.

The L-W tandem system is extremely flexible. Coupling or uncoupling the second scraper can easily be accomplished in 30 min. or less. One hitch pin forms the mechanical connection, while quick connect plug-ins provide the hook-up for electric cables and air hoses. The result is that the equipment owner can double or halve his equipment capacity at will to tailor the machines for different types of jobs or changing conditions on the same project.

One of the most important advantages in tandemizing is that the capacity doubling process does not call for a bigger more powerful pusher. Because the scrapers are loaded one at a time, loading resistance is about the same as it would be if there were only one scraper behind the prime mover. In loading time, the process of loading tandems is actually faster than if each scraper had its own power unit, because the time taken for the pusher to position for the second load has been eliminated.

The idea of doubling-up scrapers in tandem for greater capacity is not new. L-W makes the idea practical. Principal problems experienced with tandems in the past were awkwardness and lack of maneuverability due to extreme length, plus the complication of running long reeves of cable from the rear scraper to a power control unit on the prime mover. The L-W system eliminates both of these drawbacks.

Electric controls for the rear scraper, like the ones on the front, transmit the power for tailgate, apron and bowl lift through electric cable eliminating long runs of wire rope. The maneuverability problem was

solved by dispensing with the front axle and wheels of the second scraper and letting it ride "piggyback" on the rear of the front scraper. This shortened the tandem's overall length and permits the second scraper to turn a full 90 deg. in relation to the front scraper.

The L-W tandem very closely approaches, and in many instances surpasses, the maneuverability of conventional single scraper self-propelled units of comparable carrying capacity. A model D Tournapull with tandem scrapers totaling 18 yd. capacity can make a 180-deg. turn in less than the 32 ft. 7 in. space required by the C with single 18-yard scraper.

Company officials point out that the introduction of tandems opens "capacity-doubling" possibilities to many owners of Tournapull scraper combinations already in the field. Almost all such electric control rigs, built since 1947, can easily be tandemized. The job can be done in the field at modest cost.

An article describing the initial adaptation of this tandem rig in the field, at Pinole, Calif., appeared in *Western Construction*, November, 1959.

... Write No. 150

Bantam diesels for pickup trucks

A small Cummins diesel engine for use in pickup trucks is now available in the West by **Cummins Service & Sales**. The unit is designed for light and medium duty trucks currently using gasoline power. The new Cummins "Bantam Weights" are "proving extremely effective in 'less-than-maximum gross' operations on pickup and delivery units." Tests prove that a pickup truck powered by a small Cummins Diesel will show a savings of \$500 a year based on an average of 1,250 mi. per month. This is made possible because the new small diesels use only one quarter as much fuel when idling as their gasoline counterparts and less than one-half as much at normal speeds. This extremely low

(Continued on page 18)

MORE THAN A TRACTOR SHOVEL

No other tractor-shovel comes close to matching the all-around usefulness of a 4-wheel-drive "PAYLOADER" because it has the most complete selection of interchangeable attachments available, including several that are "exclusives" on "PAYLOADER" machines! These are *real working tools* that save time on-the-job and the high cost of single purpose machines:

1 "FOUR-IN-ONE" BUCKET

Patented Drott bucket is a "PAYLOADER" exclusive on rubber. Does many shovel, clamshell, scraper and bulldozer jobs.

2 HYDRAULIC BACK-HOE

Built exclusively for "PAYLOADER" by Wain-Roy. 190° working radius permits right angle dig and dump. Mounts front or rear.

3 FORK-LIFT

Forks adjust to fit varied size pallets or loose loads of lumber, sheeting, pipe, logs. Easily interchangeable with bucket.

4 ROTARY SNOW PLOW

Built by Ram for "PAYLOADER" tractor-shovels. Separate power unit drive. "V" and blade plows available also.

5 LEAF LOADER

Another "PAYLOADER" exclusive by Ram. Individual hydraulic motors power reel and conveyors. Picks-up 90% of bulk.

6 VIBRATORY COMPACTOR

Jackson vibrators efficiently develop specified densities in all granular soils. Electric motors on each of four 30-in shoes.

7 BLACKTOP SPREADER

Exclusive Ram unit has separate power unit. Lays up to 8-ft. wide, adjusts 0 to 48-in., 0 to 6-in. deep. 2-cu. yd. hopper.

8 SIDE-BOOM

Superior-Hough hydraulic boom lifts 5-tons, telescopes 10 to 16-ft. Does not interfere with bucket use.

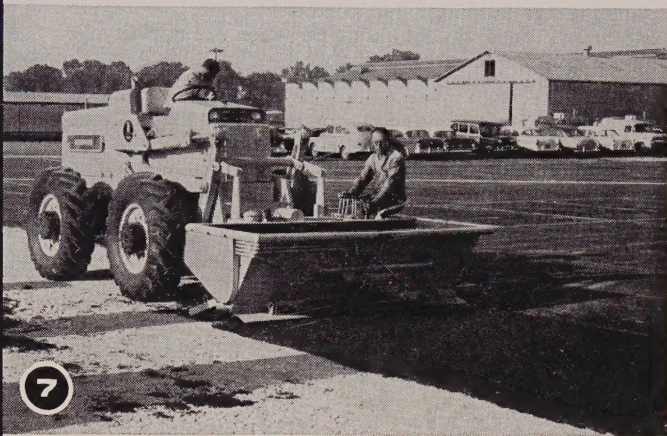
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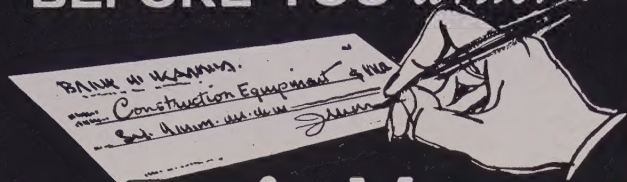
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BEFORE YOU *write!***



Check Pacific Mercury ...the only equipment carrying a **FULL YEAR WARRANTY!**

Your own requirements guided the engineering of PM electric plants, flasher warning lights, concrete vibrators and street barricades. That's why PM has no hesitation in covering your purchase with a one-year warranty.

Once you use PM equipment, you'll have the same confidence in it that we do. Our engineers scrimped on nothing to bring you efficient, substantial construction equipment. The "extras" that are included as standard equipment will amaze you. The savings — from initial cost to day-in day-out maintenance — will be a real surprise. Frankly, PM equipment is downright niggardly when it comes to maintenance costs, but most generous in giving long, hard years of efficient service.

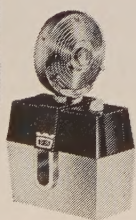


Your PM distributor will be happy to arrange a free demonstration.

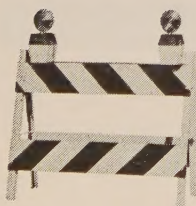
PM ELECTRIC PLANTS save job pay-out dollars! Standard equipment includes RPM indicator, automatic spark advance, pushbutton start and remote control. There's a model to fit *your* specific need.



ONE-MAN OPERATED SOLO CONCRETE VIBRATOR (25,000 V.P.M.) eliminates eccentric weight bearings, puts \$40.00 per 100 hours average bearing replacement cost *right back in your pocket.*



PM FLASHER WARNING LIGHTS have a plug-in transistor circuit that's *guaranteed forever!* Lights have four times greater bulb life, 12 times greater lens life, and adjustable flash rate. Lower maintenance cost, longer life offers you savings of \$3 per light per month! PM flasher lights are available in transistor neon or incandescent models as well as with a one-inch glowing rim around the lens and 30% dwell time to meet various state specifications.



PM BARRICADE KITS offer the most flexible replacement system ever devised for barricades. Damaged parts are easily replaced, an exclusive PM feature that means an average of \$5.00 additional job profit per barricade per month for you!

**against factory defect in material or workmanship*

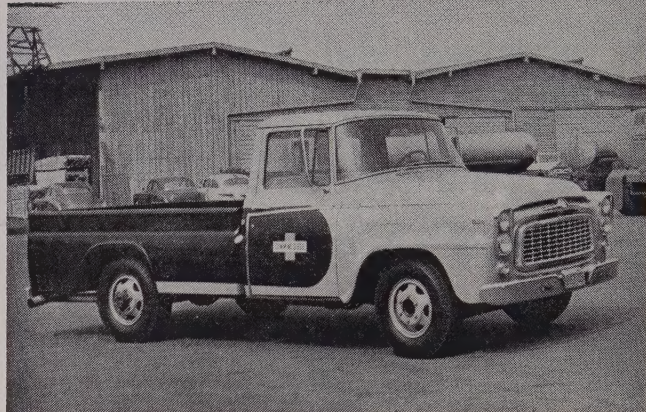
Complete catalog is available on request.

Pacific Mercury

North Hollywood 23,
California



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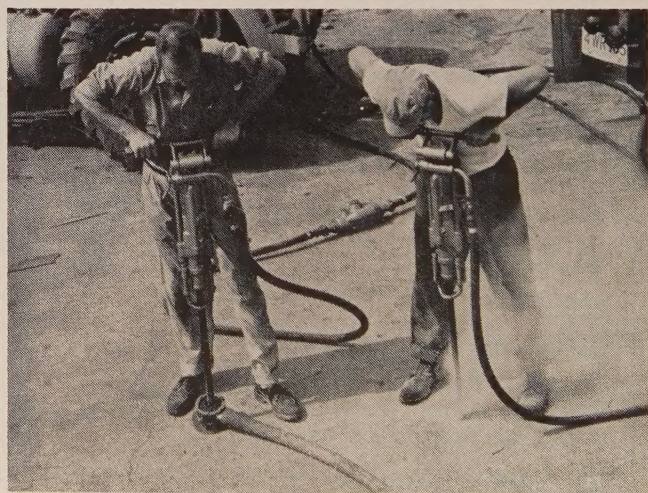
idling speed provides an added plus factor in that the engine need not constantly be turned off and on when making individual stops. This on-and-off operation of the ignition—a major cause of electrical system wear—is virtually eliminated. The diesel engine has no complicated electrical system to maintain and will require no major overhauls for at least the first three years of operation.

The new Bantam Weight Diesels begin at 70 hp.
... Write No. 151

Dust collector for rock drills

A dust collecting system for use with hand held sinker drills is offered by **Le Roi Division**. It can be used with any brand of rock drills, according to the manufacturer.

Operation of the dust collecting system is simple. Dust and cuttings are trapped by a collar that fits around the drill steel and are "inhaled" through a connecting hose to a Le Roi DK280 dust collecting tank.

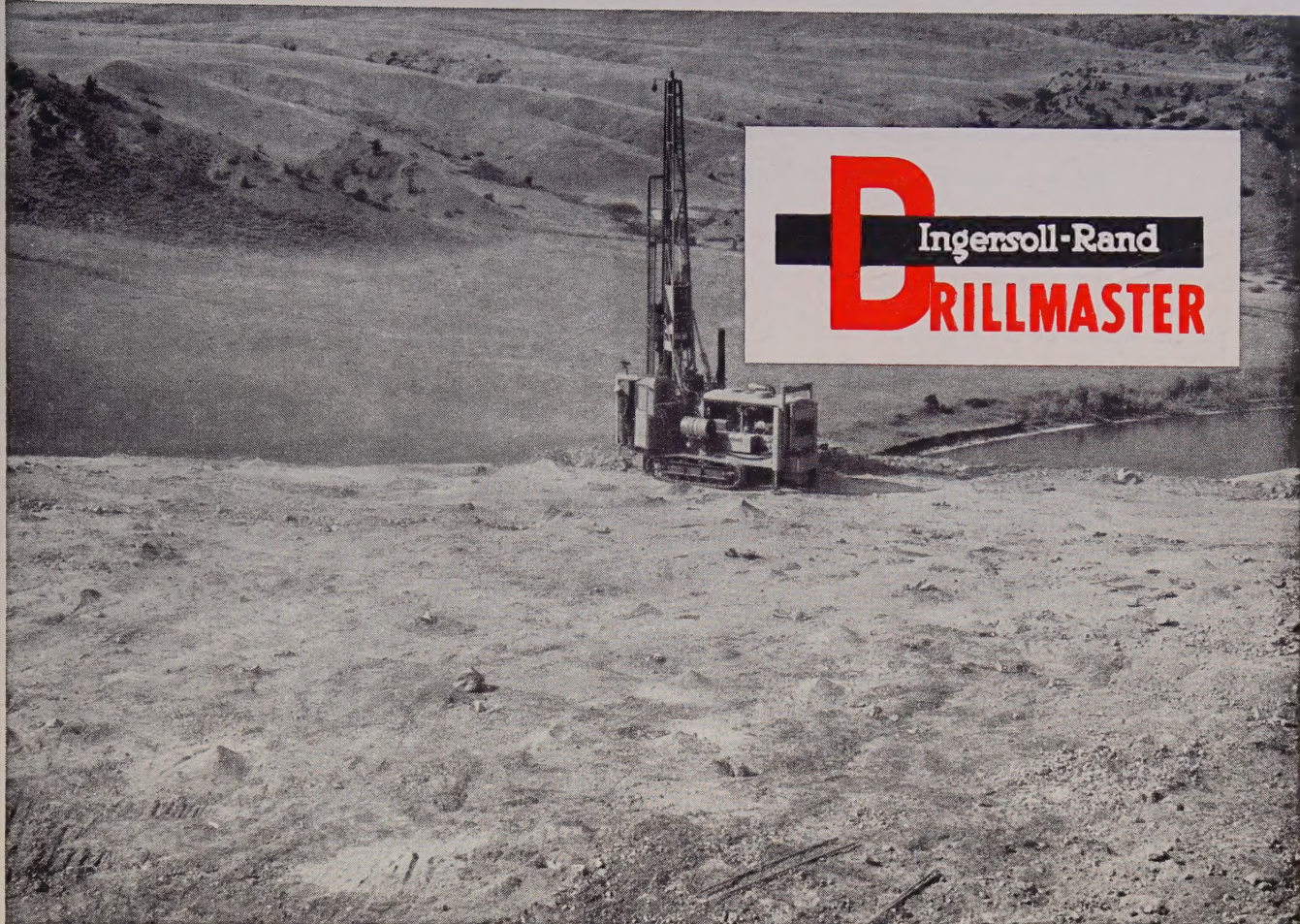


In addition to eliminating dust as a health hazard, the collecting system increases air tool operator comfort and efficiency. It also is a good public relations factor in residential or pedestrian areas.

The DK280 dust collecting tank can be mounted on any compressor carrying truck, portable compressor or Le Roi's combination tractor-compressor, the Tractair. The DK280 has a big 23 in. wide, 16 in. long and 7 in. deep drawer that pulls out easily for disposal of dust and cuttings.

... Write No. 152

Equipment ideas for the 1960 season starts on page 80.



D Ingersoll-Rand
DRILLMASTER

SPEEDS BLAST-HOLE DRILLING for **BIG SHOTS**

The Ingersoll-Rand Drillmaster shown above is putting down the last blast holes for a *big shot* —using about six tons of ammonium nitrate! This big blasting job is part of a 225-ft. deep road cut on a new Montana highway that requires the removal of 1,500,000 yards of rock!

The contractor, Albert Lalonde Company, Sidney, Montana, picked a Drillmaster for the job because they wanted a completely self-contained unit with high drilling speed, easy maneuverability and extra dependability in heavy duty blast hole service. Using 6½-inch Carset bits with an I-R DOWNHOLE drill, this machine drills twelve 25-foot holes per 8-hour day, or up to sixteen 25-foot holes in 8½-hours with 4¾-inch bits. The ground is sandstone, siltstone and shale.

This one I-R Drillmaster is doing *all* primary blast hole work for Lalonde's two contracts on the highway project, covering 11.78 miles with total removal of 1,740,000 yards.

For top performance at rock-bottom cost, drillers from coast to coast are turning to the Ingersoll-Rand Drillmaster. It's a high production unit designed and built to provide extra stamina and long life and drilling power that's right for any job. It will drill with roller-cone rotary bits or the sensational Ingersoll-Rand Downhole drill that goes down the hole with the bit to provide full striking power right at the bottom of the hole regardless of depth.

For complete information, contact your Ingersoll-Rand representative or send for Bulletin 4179.



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The WEST from WASHINGTON

By E. E. HALMOS, JR., Washington, D. C.

The sudden spate of stories out of Washington, to the effect that the Eisenhower Administration may be looking more favorably on new public works construction starts for its final budget recommendations, are of special interest to Western construction men.

For the biggest of the "new starts" that could be on a new list would be in the West, despite a number of flood control and navigation projects that could be scattered to all parts of the country.

Origin of the stories apparently was a press conference, in which Interior Secretary Seaton said he "hoped" the administration would approve some new starts (beyond the 67 approved over the President's objection in this year's appropriations bill). That statement immediately set off speculation as to what projects might be now reconsidered.

But to get the whole matter into perspective, remember this: Such a change in the Administration's viewpoint on public works would be entirely out of character with its actions in the past seven years of holding down public works in the interest of budget balancing. As you know, the President hasn't been objecting to specific projects on an individual basis—but to the general principle whereby Congress authorizes expenditures that will go on without control into future years.

However—and this is a big point—1960 is a political year, with not only Congress but the Presidency at stake. Thus, although Mr. Eisenhower is determined to leave office with the country in good condition, he's equally determined to leave a record on which his successor as party standard-bearer can stand and be elected. And public works measures are a tried-and-true method of getting local voter support.

With this in mind, then, it's worth looking at what projects might be eligible, after a reexamination of Bureau of Reclamation and Army Engineer backlogs.

BuRec projects that would seem most likely would include: The \$109 million Yellowtail Dam and powerhouse in Montana; Oregon's \$3.3 million Bully Creek project (an extension of the Vale irrigation

project); the \$5 million Spokane Valley project in Washington; the \$5.7 million La Feria irrigation project in Texas; projects principally aimed at potable water supplies on the Canadian River in Texas and to serve Norman, Okla.

Army possibilities might include basically flood control and navigation projects in California, Oregon and Washington—part of a backlog of some \$400 million worth of authorized projects that have been held back by Administration fiscal policies.

* * *

Mention of the water-supply projects on the Canadian River and at Norman, by the way, focuses attention on the growing trend to consider Reclamation's work as "water use and conservation" rather than simply irrigation and reclamation.

This trend isn't new in Washington—it's been slightly visible for perhaps a decade—but it is getting stronger, and picking up powerful backing. It is, for instance, almost certain that Senator Bob Kerr's Select Committee on Water Resources will strongly back this kind of an approach.

* * *

As you look at what Congress does in the opening days of this session, it is well to keep in mind this fact—the same one that may influence Administration thinking. This session is going to be reasonably short, hard-fought, and furiously political.

Most observers in Washington figure that the legislators will wind up the session as soon as decently possible—certainly by mid-July—so they can get at their politicking in earnest. And it means that little opportunity for political gain will be lost while Congress is in session—thus the bills to be fought over will be scrutinized from every possible angle, with politics in mind.

And out of what will be before Congress as battlegrounds, the construction industry will find itself in the middle on three out of four national matters, and more than that on measures that are of particular concern to the West.

On the national basis, there are four major issues that may be set-

tled: The minimum wage law change that would raise the "floor" under wages from \$1.00 an hour to \$1.25 an hour; the annual appropriations bills for public works; a housing bill of some kind; and the very touchy question of civil rights. (This last, by the way, will be soft-pedaled as much as possible by party leaders, who don't want any disruptive interparty battling now, if it can be avoided.)

Of special interest to the West will be the major battle that has already developed over S.44—the bill that would authorize the huge (\$1.2 billion, if all features are added in) San Luis project in the aqueduct line that will transfer water from Northern to Southern California. You may recall that this measure passed the Senate late in the last session, after a pitched battle on the Senate floor that finally succeeded (because of support of mid-western and eastern senators) in knocking out a provision that would have removed the 160-acre limitation on landholdings on certain lands in California.

Thus amended, the bill went to the House, where the Public Works Committee promptly put back the provision (to knock out the 160-acre limitation) and reported the measure to the House floor. The session ended before any further action was taken—but it is certain that this will be a real battleground, once Congress gets through its opening formalities this month and gets down to business.

One major highway matter must be taken up this year—the biennial authorization for construction of the ABC (primary, secondary and rural) roads. Question here is whether—in view of the shortages in the Highway Trust Fund—Congress will continue to accelerate this program at the rate of \$25 million a year, which it has been doing.

Another highway consideration will also come up, though it's problematical whether any action will be taken now. Last year, you'll recall, the Bureau of Public Roads was directed to study whether Alaska and Hawaii should somehow be included in the Interstate Highway program. A report on that—along with another report on the rehabilitation and reconstruction of some sections of the Alcan highway—is due.

One set of measures definitely won't get anywhere. The group of bills designed to give highway interests an equal say with the Corps of Engineers over navigational

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The new Cedarapids Super Commander on the job in Wisconsin, crushing glacial gravel. This field-tested plant is producing 400 tons per hour with 35% crushing, and around 260 tons per hour with 65% crushing.

For 7 successful years, Cedarapids Commander Plants have been the standard of the Industry for high-capacity, low-cost production. Yet today, even the Commander's big-tonnage output isn't always enough for jobs that are getting larger and larger. That's why Cedarapids engineered the new *Super Commander* . . . to give you all the time-tested Commander benefits plus *20% greater production!*

The Super's combination of BIG-capacity components meets every demand for tremendous output... 400 to 500 tons per hour, or more, in 1 to 4 product sizes. Its Twin Jaw Crusher gives you 40% to 100% more primary crushing, a greatly reduced circulating load, and 5 to 10 times longer jaw life than you get with a comparable-sized single jaw crusher. The big 48" x 14' horizontal vibrating screen, with three full decks, provides 40% more screening area than the standard Commander's 2½-deck screen. The elevating wheel is 12" larger in diameter and 5" wider. Conveyors and feeder are 36" wide.

And there's no sacrifice of portability in the every-way-bigger Super Commander. A new air-suspension third axle (optional) distributes weight and reduces axle load to under 18,000 lbs. to meet most State requirements. Maximum travel height is only 14'. The permanently mounted front delivery conveyor and permanently positioned screen assure fast set-up time.

There are many additional benefits . . . a 48" x 10' Pre-Screening Attachment (optional) for producing 100% crushed products . . . large 12" dia. x 4'6" long sand ejector screw (optional) . . . simplified drives . . . new belt wipers . . . and many other design refinements.

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clearances to be provided for highway bridges. Inland waterway operators are fighting hard on this one, and with apparent success.

* * *

By refusing to review the cases, the U. S. Supreme Court has written some new regulations in two matters affecting Western engineering employees—as well as engineering employees anywhere.

In one case (see November column) the Court upheld a lower court decision which says, in effect, that the manner in which an employee is paid—not his professional qualifications or title or duties—determines whether he is to be considered a "professional". Ten engineering employees of Far West Engineering Co. of Los Angeles contended that they were entitled to overtime pay, because they were hired on an hourly basis, despite the company's contention that they were "professionals" and hence not subject to overtime provisions.

In another matter (see December column) the High Court upheld a lower court (and an NLRB) decision that an engineering firm, hired by contractors for earthwork computations, could be forced by a contract provision to deal with the same unions with which the prime contractors dealt. The Marysville, Calif., firm of Saint Maurice, Helmkamp & Musser had contended that its employees were already members of the Engineers and Scientists of California, and that for the firm to direct them to deal with the local Operating Engineer union would be an illegal interference with their free choice of representation. Lower courts had held that the contract clause—part of a statewide AGC agreement—is legal.

* * *

There's another case going before the Supreme Court that will have particular interest for Western construction men. It concerns the point of how far up a stream—above the head of navigation—does U. S. authority extend.

The case itself is a suit by the Grand River Dam Authority against the U. S. Government, seeking \$10 million for the state for power rights at Fort Gibson Dam, where the Oklahoma-based Authority claims it had prior development rights.

Facts are these: The Authority, authorized under state law in 1935, was to develop water and power resources of the Grand River, which joins the navigable Arkansas River

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JULY 20, 1959

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AGAIN, THANK YOU FOR THE WONDERFUL COOPERATION EXTENDED BY YOU AND YOUR FIELD PERSONNEL IN HELPING US SET UP. WHAT WE CONSIDER, THE FINEST PLANT IN SANTA CLARA COUNTY. WE THINK IT'S GREAT!

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PARTS WAREHOUSES IN LOS ANGELES AND DECATUR, ILLINOIS

Attention Contractors!

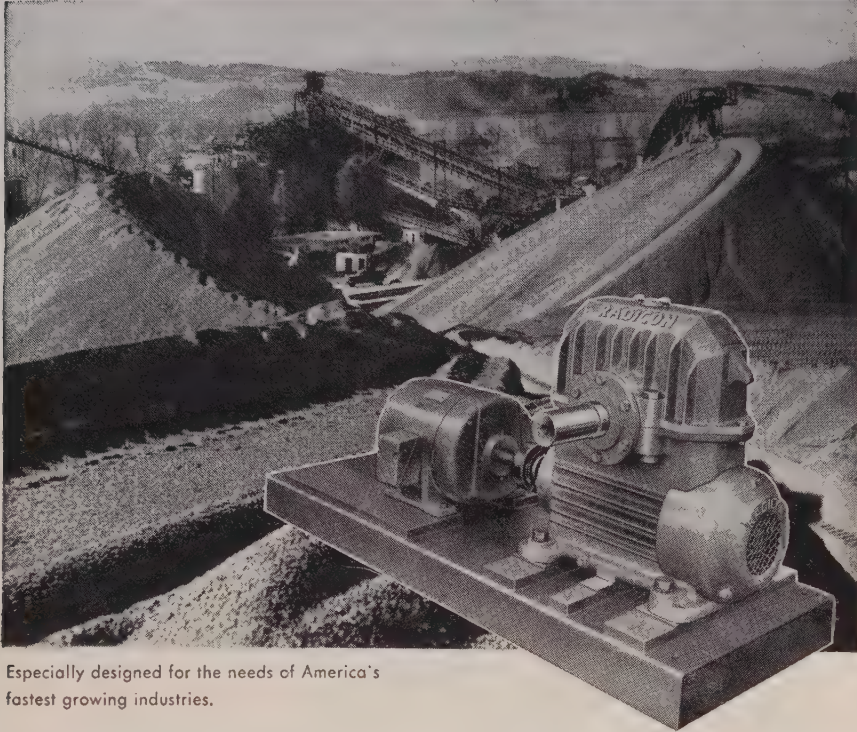
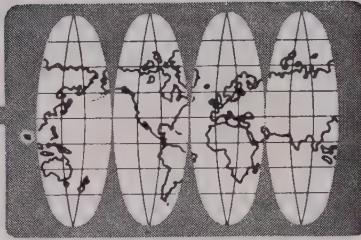
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near Muskogee. It prepared a plan for the unified operation of three reservoirs — Pensacola, Markham Ferry and Fort Gibson dams. At the same time, the Corps of Engineers recommended a similar project to Congress, which took no immediate action.

The authority then proceeded to build Pensacola Dam, and while this was in progress, Congress authorized the Corps to proceed with Fort Gibson, which was completed in 1950. Congress then further authorized the Authority to build Markham Ferry—and in order to get some of the needed money, the Authority filed the suit, claiming it had prior rights to develop power at Fort Gibson, and thus was entitled to reimbursement for its losses.

Texas and California lead the parade of states in total number of authorized projects, under terms of a \$57.1 million allocation of funds for Federal-aid airport projects. Of 288 projects approved (local project sponsors match the funds on a 50-50 basis), the 12 Western states, and Alaska and Hawaii got a total of 79 projects approved, for a total of \$18.6 million in Federal funds.

* * *

Air Force actions early in December which had the effect of ending the development program for the supersonic B70 bomber are taken in Washington as foreshadowing the end of procurement of manned aircraft for the nation's defense — the beginning of the "phase out" that must precede full dependence on missiles for defense.

An immediate question is whether this action also foreshadows an end to construction of military airports — a momentous question for contractors and engineers.

A quick check around Washington produces this kind of an answer:

1. There will be few—if any—more airbases such as Travis in California, or Limestone and Dow in Maine, with their 13,000-odd ft. runways and the like. The bases already in existence will serve the purposes of the big bombers until the missiles are ready to take over.

2. But there should be no particular slackening in construction of smaller military air installations. As one Pentagon official put it to *Western Construction*: As long as the military is operating cargo, observation and tactical aircraft—and that will be a very long time ahead—military bases will be needed."

Modern machines make poor operators?

THERE is no intention of getting into the typical chicken-or-the-egg controversy, but it is interesting to speculate as to whether our push-button construction equipment of today tends to encourage less competent operators, or the reverse. Discussion of the idea could get fairly long and involved.

First, as to the equipment, each year demonstrates it is becoming more complicated, but simpler to operate. This is not a contradiction. Mechanical, hydraulic and electric devices are controlling many adjustments with less skill required on the part of the operator. The push-button era of construction machinery has just about arrived.

As a result, operating skill of the quality that was required when equipment was crude and manually controlled is no longer so essential. In the old days the man at the controls of an elevating grader, a scraper or a mixing plant had served a fairly long apprenticeship. He recognized the fact that a considerable degree of ability, in addition to extensive training, might be necessary for him to get a regular position with any construction organization. These experts took pride in their attained skills and enjoyed demonstrating their ability for superintendent, engineer or visiting observer.

Somewhere along the line the introduction of better mechanisms and controls began to let the less skilful operator accomplish a respectable output. Or, possibly the gradual elimination of craftsmanship and incentive to acquire skills fostered the development of mechanical controls. On this point the relation of cause-and-effect is not clear, but modern design of equipment developed about the time when there was a declining emphasis on acquired skills in many of the construction trades.

This trend has grown at a fast pace during the past decade; mechanisms have taken over more control, direction and guidance.

A secondary aspect of this equipment development is the power requirement for the improved transmissions, power-transfers and controls. Modern power plants have sufficient surplus to neutralize this power loss, but it is a definite part of fuel consumption. Further, there are situations in the operation of any construction machine where manual controls can be more effective, if directed by a skilled operator. Just as there are conditions where an automobile can perform better with a manual shift as compared to automatic drive, so there are places where an operator of the old school could get more out of his machine than the modern operator with his push-buttons. An interesting contest would be to pit an old-time experienced operator and his pet machine against a comparable modern rig and average operator.

The most important speculation on this development is the fact that it is a one-way street and there is no return. Thus, we can expect machines to get more and more complex, and operators to become more and more skilled in pushing buttons. The required output will come as a result of abundant power and electronic controls in the modern machine, rather than from a high degree of skill in the driver's seat.

Jim Ballard

A new Ryerson service . . .

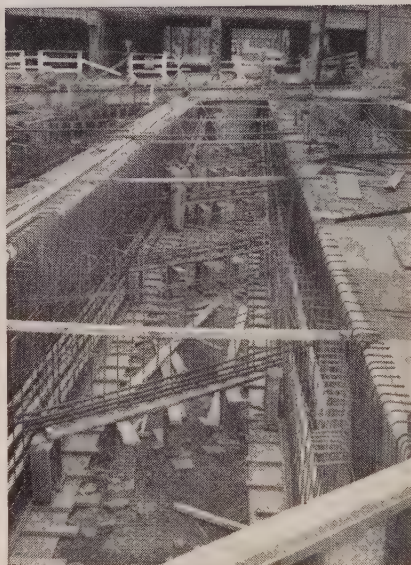
POST-TENSIONING FOR REINFORCED CONCRETE CONSTRUCTION

The nation's most complete post-tensioning service is now being offered to contractors through the 20 Ryerson steel service centers coast to coast. This new service includes a complete "package": force development calculations, detailing and placement plans, complete tendon and anchorage assemblies, stressing and grouting equipment, and field labor procedures—assuring the most reliable cast-in-place or precast post-tensioned construction at minimum cost.

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SEVEN TENDONS (six 40-wire units and one 12-wire unit) draped in position for 156-foot bridge girder.



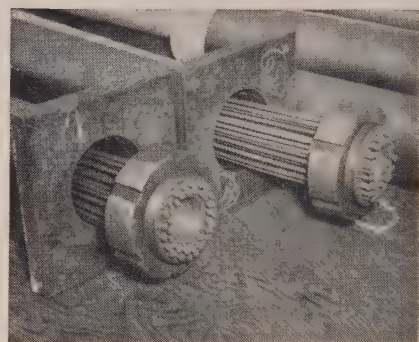
SUPPLEMENTARY REINFORCING STEEL in position around tendons, and bridge girder.

have been demonstrated in hundreds of major European construction projects of all types over the past 15 years. Ryerson post-tensioning service also gives contractors the advantage of a single source for the fabricated re-bars, accessories and other steel requirements of the job.

Examples of current projects using Ryerson post-tensioning service: the second deck approaches for the George Washington Bridge in New York City, Chicago's huge lake-front exposition hall, airfield pavement slabs at a California air base, a 468-foot overpass for the Northwest Expressway in Chicago (three 156-foot clear spans), the longest post-tensioned concrete bridge span in



GROUTING MIXTURE is forced into tendons and around wires after stressing. Pressure injectors and venting procedures assure positive filling of all casing and trumpet voids.



40-WIRE ASSEMBLIES in flexible conduit before placement—showing moveable anchor head, lock nut, base plate, and trumpet encasing last few feet of flexible conduit.

the Western Hemisphere at Oneida Lake, New York (total clear span, 320 feet).

For complete information on this new post-tensioning service or for help on specific projects, contact your nearby Ryerson plant. Specialists are available to give you all the facts, estimate costs, and show how Ryerson is equipped to improve and simplify your next construction job.

*U. S. Patent No. 2728978

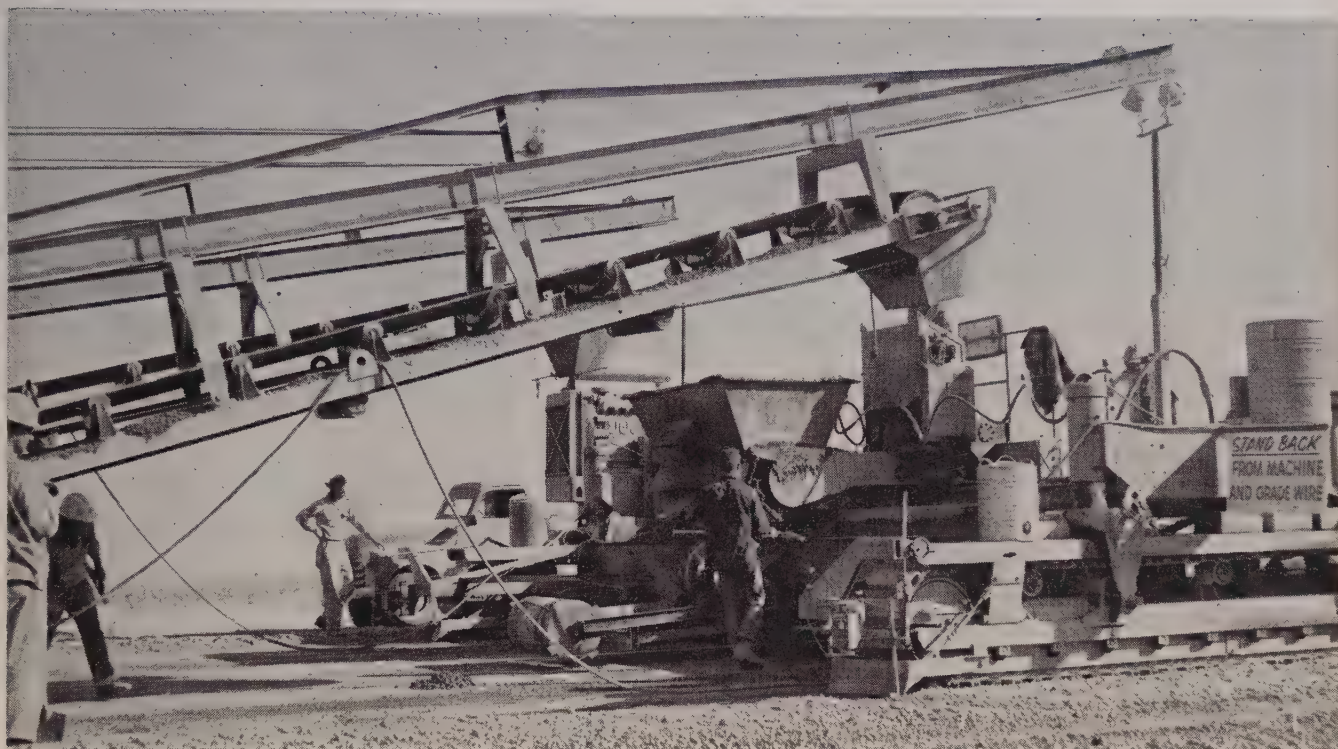
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WESTERN CONSTRUCTION—January 1960



CRAWLER assemblies carry slip-form along grade at 7 fpm. guided by grade wires at either side. Belts from pavers replace conventional

buckets to feed form. A car, center, travels back and forth between belts to distribute concrete in the form. Grade wires guide the unit.

California's first slip-form highway paving project

THE FIRST stretch of concrete highway placed by a slip-form in California is now being completed. Scene of this construction milestone is the flat Sacramento valley of Northern California, near Winters, where a 19.1-mi. state highway relocation skirts the town.

The highway is being built under three separate contracts, all of which are held by Gordon H. Ball. More than two years ago the contractor selected this straight level job as an ideal trial ground for slip-form paving.

The concrete was placed with a slip-form built by Guntert & Zimmerman, Inc., of Stockton, Calif.

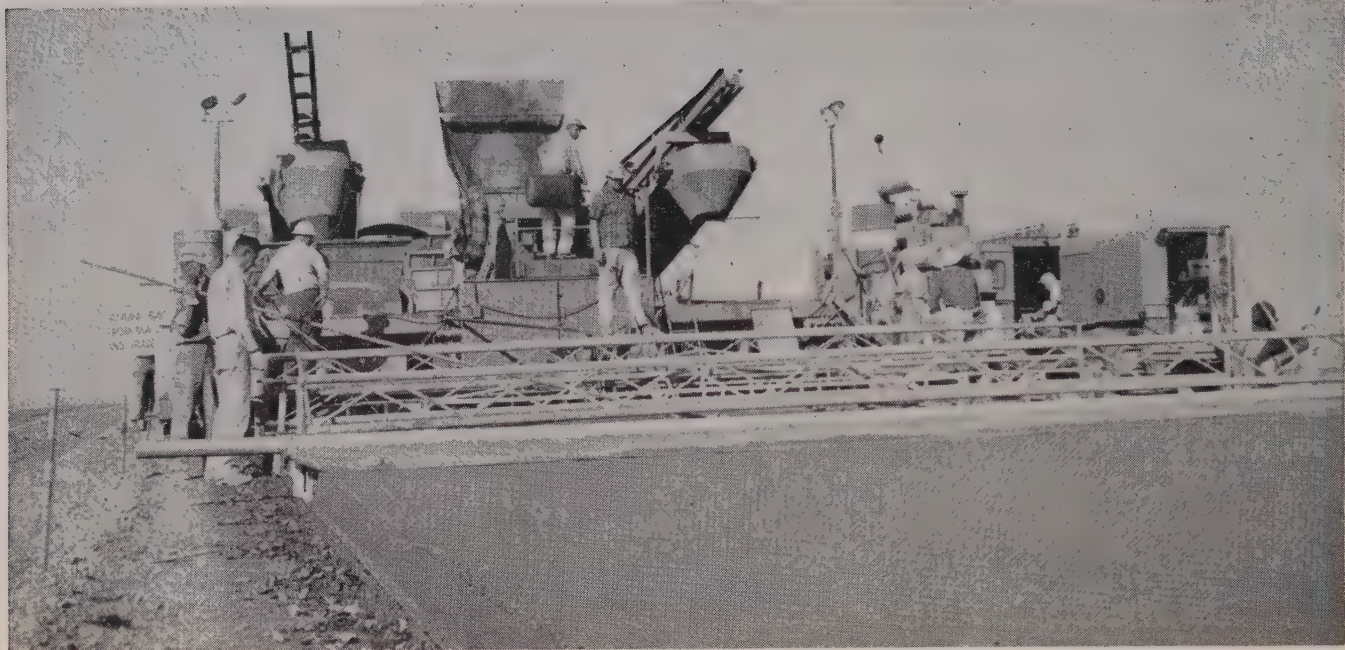
This machine is electrically operated and rides directly on the subgrade, propelled by crawlers at the ends of its 24-ft. hopper-screed. It is guided for both grade and line by taut grade wires strung on both sides of the roadway.

Preparation of the subgrade over which the slip-form was to travel was done with a huge road planer built by Gurries Mfg. Co., of San Jose, Calif. In its operation, both grade and cross slope are automatically controlled through a hydraulic system.

In addition to these two spectacular new machines the job featured numerous other new models

of equipment currently in use and a number of new construction techniques.

The road crosses a highway district boundary and the job was divided into two sections. The northern section, 13.7 mi. in length was further divided into two contracts, one for the initial grading and bridge construction, the second contract for completion of the road and paving. Both of these contracts were executed by the Gordon H. Ball organization, the latter on a low bid of \$1,392,945. The south 5.2-mi. section of the road was built from scratch from an all-in-



EXPOSED edge of fresh slab placed with slip-form. Unit tows 35-ft. V-float with side forms. Grade stakes at left. Electrically powered

form has automatic steering and grade control. Concrete car and other functions operated from push-button panel in center.

clusive contract of slightly over \$1,000,000.

SLIP-FORM

If any compaction was lacking along the shoulders of the subgrade of these jobs it was supplied by more than 200 engineers, contractors and visitors who trooped along to watch the Guntert & Zimmerman slip-form paver place a 24-ft. ribbon of concrete between two thin piano wires stretched along either side and staked every 25 ft. The form used on this job is virtually identical to the one used by the Griffith Co. to pave the Los An-

geles River bed (*Western Construction*, October 1959). The Los Angeles job, completed last fall, included a 15-mi. strip of 24-ft. width paving which was tested for smoothness by the California Division of Highways. This job opened the way for use of the slip-form method in actual highway construction.

Basically the paver consists of a long narrow hopper and screed suspended at both ends on crawler assemblies. At the mouth of the hopper is a 3-in. diameter vibrator running the full width of the unit. The vibrating action is derived from an eccentric cam. This unit is the only distribution within the

hopper itself. The hopper is charged from a concrete car which rides back and forth over the top. Speed of the car and width of opening of its clamshell gates are controlled by the form operator, and with use of these controls he deposits a uniform amount of concrete along the width of the hopper.

A 35-ft. V-float with side forms is towed behind the machine. A diesel generator supplies electric power for all functions. The slip-form can be operated manually from a push-button control panel, mounted in the center. On the Winters job, however, both grade and line adjustments are made by automatic switching which receives its data from 5 metal forks spanning the grade wires. On the right side two forks are mounted horizontally for grade. On the left both a horizontal pair and vertical fork ride the grade wire. The vertical fork does the steering. Forks are mounted on hinges so they can pass the steel brackets which support the grade wire.

Concrete for the slip-form is supplied by 2 Koehring 34E pavers which ride the subgrade directly in front of the form. Instead of the customary bucket these pavers deliver concrete on a belt suspended from the boom. The belt moves at a speed of 450 fpm. and discharges into a hopper-like hood. Hoods are spotted at either end of the slip-form and charge the form car alternately as it travels back and forth over the hopper. Belts are powered from the slip-form instead of the

Development of Slip-Form Paving

Slip-form paving crossed the border into this Western region served by WESTERN CONSTRUCTION in 1955 from Iowa.

Its first use was a field test conducted by the Colorado Department of Highways that season on a 2,800-ft. section of 24-ft. concrete paving and the work and equipment was described in WESTERN CONSTRUCTION, June 1956. In 1957, use of slip-form paving was extended in mileage, and included the development of a procedure to insert reinforcing mesh. This work was reviewed in WESTERN CONSTRUCTION, September 1958.

The record of this development during these several years was brought to date and appraised in an article in WESTERN CONSTRUCTION, June 1959. During that '59 season the entire 60.8 mi. of 24-ft.

concrete paving in Colorado was placed by slip-form.

The scene now shifts to California, where a slip-form of different design was used last year to pave the bottom of the Los Angeles River channel. The machine laid a 24-ft. slab, and observations made by state highway engineers indicated it was considered a test for permitting its use on state highway work. This river channel paving job was reviewed in WESTERN CONSTRUCTION, October 1959.

This represents the planned coverage we have given to this important highway construction development as it has advanced and expanded in our region. The present article describes the new equipment and job methods on the first California highway project.

Editor



NUCLEAR instrument, operated by Douglas Howard, Materials & Research Laboratory, to measure density in new non-destructive test



OPERATOR'S platform gives unrestricted view of job. Form can be maneuvered manually as well as automatically. Note lights on form.

paver by means of flexible cables.

Short steel tie bars are embedded beneath the center strip by a reel arrangement which feeds two wires to which the bars are attached under the form.

A new function of the slip-form is an attachment for automatic joint cutting, which impresses the transverse joint with a vibrating steel knife. Interval is controlled by a bicycle wheel and chain rolling along the left shoulder. Longitudinal joint is made by a simple steel cutter wheel. Use of these jointing attachments eliminates all sawing. No further treatment of the joints is necessary and tests have shown that the slab cracks directly beneath the impressed joint.

On normal runs grade stakes supporting the wire are 25 ft. apart. On super elevations and curves the stakes are spaced 15 ft. apart. A crew of 5 men places the grade wires and another 9 men are needed to man the slip-form and the float.

Batched material is supplied by a fleet of Cook Bros. half cab, 5-compartment trucks which are charged from a Noble batch plant. Batch plant is set up at a major intersection just outside Winters, where it receives aggregate materials from a nearby sand and gravel plant. The plant hoppers are filled by a Northwest 95 crane with clam-shell bucket.

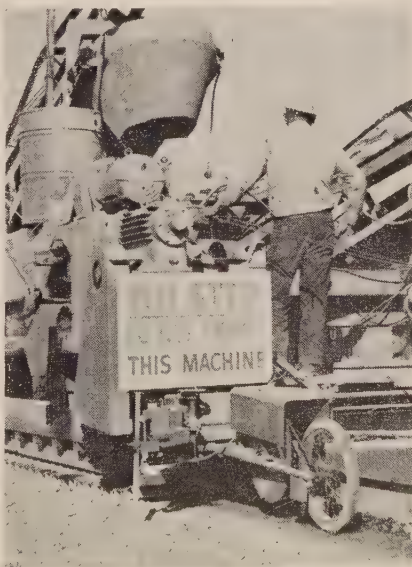
In a normal 10-hr. shift, the slip-form will place about 3,000 ft. operating at a speed of around 7 ft.

per min. Its manufacturers say that the machine can readily handle up to 1 mi. per day.

Based on the first 15 mi. of paving, Project Manager Merrill Dubach summed up the advantages and disadvantages of the slip-form this way:

Advantages

A 5-man grade wire crew replaces about 20 men needed to set header boards. This reduction in labor force in addition to elimination of investment in steel header forms is the primary cost advantage of the machine.



BICYCLE wheel controls interval between transverse joints. Hinged control fork swings past grade stake.

There are certain other conveniences attached. Pavers and batch trucks can operate inside the grade wires which are set a few hundred ft. in front of the machine. This reduces traffic problems and makes possible a somewhat speedier operation.

The slip-form eliminates 3 other machines ordinarily used for floating and finishing but it requires about the same number of men who would ordinarily operate these machines.

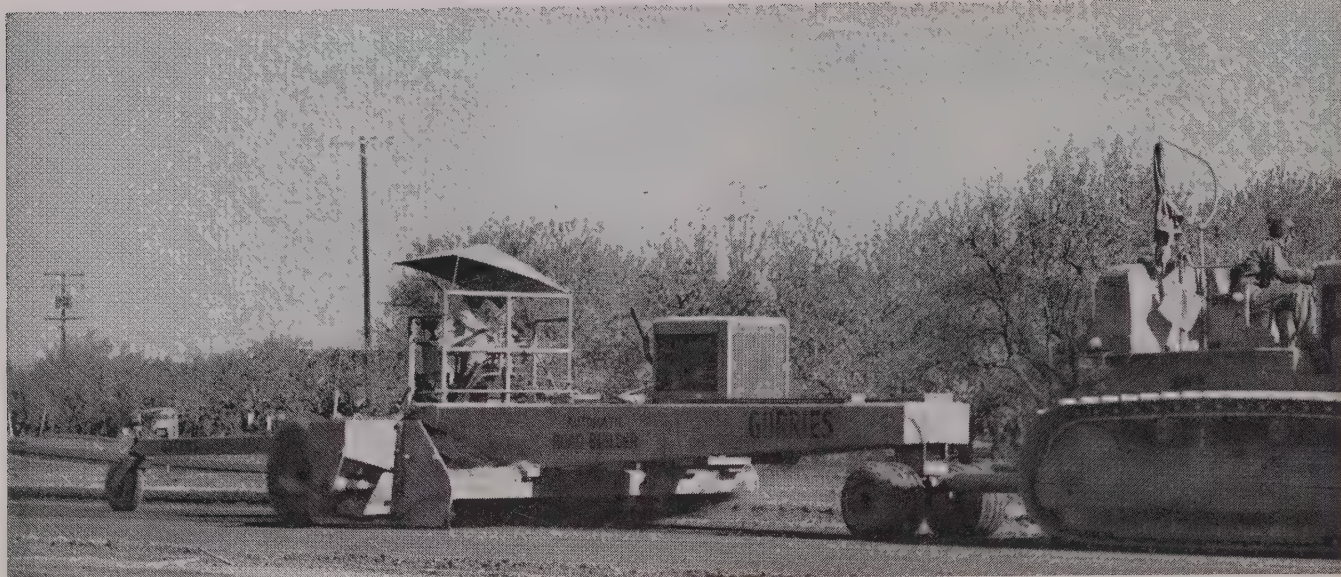
Disadvantages

Disadvantages include the possibility of "giving away" concrete, if the subgrade is not accurately graded. Observers believe that it may be necessary to develop a sort of planing device which uses the same reference point (i.e. grade wires) as the slip-form itself in order to trim the subgrade exactly 8 in. below grade.

The slip-form cannot work close to bridge structures. To fill in these gaps a certain amount of header boards must be placed and filled with transit-mix. Rental of the slip-form also is relatively high.

And, finally, there is practically no margin for error in concrete batching and mixing. In slip-form operation, the edge of the concrete is exposed about 6 min. after it is placed and it doesn't take a particularly eagle-eyed inspector to spot a batch variation when the edge falls away.

In general, Dubach noted that



GURRIES "Road Builder" grades a 13-ft. lane, holds grade and cross slope with automatic hydraulic controls. Machine has 44-ft. length

from front trucks to trailing wheel and weighs 30,000 lb. Material distributed across grading width by screw at mouth of bucket.

the disadvantages of the machine are largely "growing pains", which can be ironed out as crews become more experienced in the techniques of operating the slip-form.

Smoothness test

The shoals of visitors observing performance of the machine have another question in mind: Will it pass the California Division of Highway's smoothness test?

The answer appears to be, yes, provided considerable care is taken in the operations. (California permits a total of 7 in. accumulated error per mile based on profilograph measurement. Highway surfaces which fail to meet this tolerance must be ground down to acceptable smoothness. In other states slip-form tests using different machines have shown a total error equivalent to as much as 80 in. on the California scale, and the smoothness question has been one of paramount concern.) There will be considerable grinding on the Winters job and the cost of such grinding, of course, must be assessed against the performance of the machine. Profilograph tests on individual daily runs average between 5 and 6 in. of error per mile. Operators also noted that in one instance where the tests exceeded the 7-in. tolerance the bumpiness was confined to one very short stretch and if this were eliminated the elapsed error would have been less than 2 in. Much of the roughness was encountered during the final

4 days when a 1½-in. maximum aggregate was used.

ROAD BUILDER

Construction of a concrete highway without use of header boards entailed some changes in the method for placing and grading the courses which preceded the concrete operation. In conventional concrete placement the headers serve not only as forms for the sides of the slab but also as guides for striking off the subgrade to the precise depth desired for the concrete. In slip-form construction the uniformity of the slab thickness is governed by the accuracy of the final grading of the subgrade. To achieve this smooth subgrade the base course was placed in these steps:

1. Imported subbase material was placed on the foundation fill, compacted and planed to the grade line.

2. The top 4 in. of a 26-ft. wide roadway strip, made up of untreated base material, was then scarified and re-graded into two windrows. Shoulder material on either side was cut back to the same depth and windrowed to outside edges.

3. Materials were cement-treated and mixed in place and graded to their original depth. This provided a 4-in. lift of cement-treated base extending 1 ft. on either side of the 24-ft. roadway.

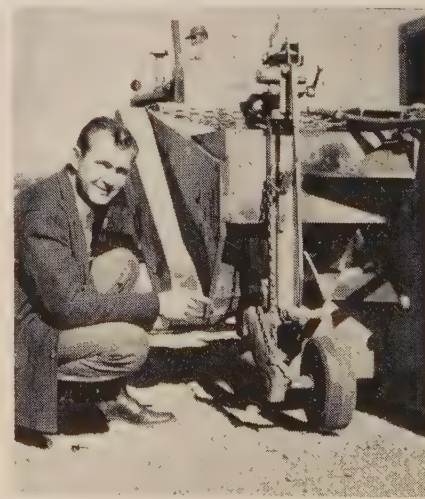
4. Concrete pavement was placed with the slip-form and shoulder

material backfilled against the slab, leaving a space for a layer of asphalt plant-mix, 3 in. thick at the slab and tapering to a 2-in. thickness at the outside edge.

The big Gurries road grading machine was used in the successive steps of grading the base material, grading the untreated base material, re-grading the cement-treated subgrade and trimming the shoulders to receive the plant-mix.

Development

Developed over the last 3½ years, the machine is the invention of Raymond Gurries and is an outgrowth of the land leveling machinery manufactured by the Gurries firm. The unit consists of a long frame supporting the bowl with a 13-ft. cutting edge and 10-



DEVELOPER Raymond Gurries points to side wheel which guides shoulder trim operations.

cu. yd. capacity. A single 20-in. screw runs through the front of the bowl. The screw is reversible and can discharge through either end. The unit rides on 4 individually suspended wheels directly behind the bowl-blade assembly. However, the planing effect of the machine is governed by a single trailing wheel at the end of a 20-ft. heavy steel beam extending behind the main wheels. This trailing wheel and the double front trucks span a distance of 44 ft. The line between these two wheels forms the zero line for grade control. The bowl can be set to maintain any desired cut from this base line. Bowl can be tilted to cut cross slopes up to 25% either right or left. Once the cross slope is set by the operator it is automatically maintained by a 250-lb. pendulum linked to a sensitive hydraulic control valve which actuated hydraulic cylinders raising or lowering the blade to compensate for unevenness of terrain.

Shoulder work

In trimming shoulders for placement of the asphalt surfacing material, the machine makes use of an auxiliary control wheel mounted at the left end of the bowl. This wheel rides on the edge of the concrete slabs and provides the base line to which depth of cut and angle of cross slope are adjusted.

Function of the screw is to distribute material evenly along the 13-ft. cutting width of the machine and to remove excess material which otherwise would tend to mound up in front of the blade. The machine weighs about 30,000 lb. The screw conveyor and hydraulic systems are powered by a



CEMENT-treated subgrade was prepared with two Wood mixers. Unit above is equipped with spreader to knock down windrow, behind the mixer. Water trailer towed at rear.

100-hp. Caterpillar diesel engine. It requires a prime mover of at least 25,000-lb. drawbar pull. In this case the contractor used a Caterpillar D8.

Performance

In assessing its performance Dubach had high praise for its output and accuracy. Operating behind 2 Wood self-propelled pugmill mixers on the cement-treated subgrade course, the Gurries machine easily graded 7,000 ft. of 26-ft. roadway in a day's run. The final grade established for the CTS was somewhat less accurate than strike-off between header boards would have been on the earlier stages of the job. Grades established by the planing operation were necessarily on the minus side and subsequent placing of the slab to a predetermined elevation thus increased the thickness of the concrete slightly above the 8-in. optimum. As the job progressed grading accuracy improved, and "give-away" was eliminated.

Where the Gurries planer was

used in base course grading its performance got an excellent rating. In this type of work it replaced 2 or more motor graders. The machine also won plaudits for its ability to trim the shoulders. Here it established something of a record cutting 9 mi. of shoulders in 2 days.

Dubach believes that the Gurries machine is best suited to open highway work with a minimum of structures since it cannot work closer than 40 ft. to bridge abutments and cannot cross bridges when pulled by a crawler.

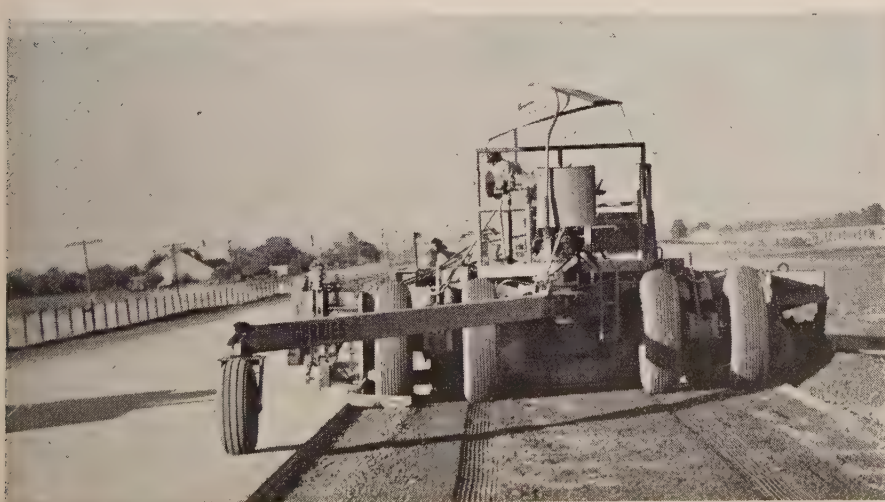
CTS operations on this job were handled by 2 Wood 54SP pugmill mixers. Each unit mounted a blade arrangement to do the initial spreading behind the pugmill. The units also towed their own water trailers.

Compaction was handled by 2 Ingram, 3-wheel steel rollers and a new Browning, 13-wheel pneumatic roller. These worked in close coordination with the grader, completing their compaction as each grading pass was made. The Browning machine which is about half again as wide as a standard pneumatic compactor represents one of the latest developments in the pneumatic compaction field.

Personnel

For Gordon H. Ball, Merrill Dubach is project superintendent, Bill Appel is paving superintendent.

For the California Division of Highways, resident engineer for the Northern portion of the job (District III) is H. J. Lopez; the Southern section, (District X) resident engineer is George Demetrias. District engineers are Allen S. Hart, District III; and J. G. Meyer, District X.



SHOULDERS graded for hot-mix application by Gurries machine. Guide wheel on slab is base for automatic cross slope control. Trailing wheel is not used in shoulder grading work.

PRACTICAL GUIDE TO HARD

Composition of materials, proper selection for various types of jobs, welding tools, techniques, and recommended heat control are reviewed in this comprehensive article.

ABOUT FORTY years ago the idea of hardfacing as we now know it began to take shape and the processes on which today's hardfacing industry is based began to come into general use and acceptance. The materials available were, generally speaking, high carbon steel for buildup and heavy impact, and cast iron for high abrasion resistance. These quickly evolved into high carbon steel and alloy cast iron. Then the numbers and variations of alloys came thick and fast until small enterprises began to manufacture alloy coated wires and alloy cast rods to be applied by welding to the wearing edges, points and other surfaces of agricultural or construction tools.

All of our experience and theory is based on the uncontested fact that the relative abrasion resistance of hardfacing alloys is due to the amount of metal carbides present. Generally speaking, the more carbide the greater the resistance to wear.

Carbide formers

These carbides are natural chemical compounds formed by the union of one or more of about a dozen chemical elements such as chromium, molybdenum, tungsten, silicon, or vanadium to list a few. Such elements are known as carbide-formers because they have a very great tendency to join with the carbon in molten metal to form distinct crystals of definite shape and composition known as the carbides of the chemical element involved. When two or more carbide-formers are present compound carbides may be formed, sometimes of great complexity. When formed in iron-base alloys greater complications occur because iron is also a carbide-former.

Because iron combines with carbon we are able to heat treat steel

to make it hard by quenching or soft by annealing. The heat-treatment of steel involves changing the relationship between carbon and iron to obtain the properties desired in the steel.

We are able to manufacture pure carbides of practically all the carbide-forming elements and so we have silicon carbide, chromium carbide, boron carbide and tungsten carbide, and many others.

Tungsten carbide

Of all the carbides, tungsten carbide is best suited for use as a material for hardfacing, where the carbide is manufactured, crushed, screened and loaded into steel tubes to be used as welding rods. Tungsten carbide, like all the carbides, is a brittle material. It will withstand very little impact when not surrounded by a cushioning material to absorb the shock. This cushioning material is known as the matrix and the character of the matrix is as important to the service life of a hardfacing alloy as the carbide.

The matrix of the tungsten carbide weld deposit is supplied by the mild steel tube in which the carbide is contained. Since a small amount of carbide is dissolved in the steel during the welding operation, the matrix becomes a tungsten steel and as such provides good resistance to wear. It was about thirty years ago that tungsten carbide in tubes was added to the growing list of hardfacing materials.

Tungsten carbide in tubes is supplied in various mesh sizes. The coarser meshes are used where greater cutting ability is required. Where impact is more severe or where gouging abrasion is a factor, it is necessary to drop down to a smaller grain size providing greater carbide coverage surface area and

bringing more carbides into service as carbide particles are lost through the action of the soil or rock being worked.

It is a simple matter to open a tube tungsten carbide rod, shake some of the carbide grains out and examine them. They are large enough to be seen with the naked eye. We can see the carbides at the surface of a weld deposit of this material and the nature of the weld deposit is not difficult to understand.

Chromium alloys

In alloys other than tungsten carbide, the principal carbide-forming element is chromium because of its relatively low cost, its abundance and because its chemical and physical properties are ideal for the purpose. Chromium is used in cast rods, tube rods, alloy coated wires, or as an alloy in core wires.

When these materials are deposited by a welding process all of the ingredients including chromium become molten. The chromium and other carbide-forming elements begin to crystallize out of the molten metal as soon as the temperature begins to fall. As they come out of solution they quickly combine with the carbon and the carbides are formed. Sometimes they crystallize as a pure carbide, but very often as a compound carbide with one of the other elements present. In an iron base alloy many of the carbides are combined with iron.

Because carbides formed by crystallization from the molten metal are microscopically small their deposits take on a high polish and appear to be very smooth. The tube tungsten carbide deposits, however, always wear to a rough surface and never appear smooth due to the large size of the carbides. In either case the structure of the hardfacing deposit is essentially the same, car-

ACING

By C. W. ROGERS, Metallurgist

Victor Equipment Co.,
Alloy Rod and Metal Division

bides held in an alloy matrix.

Microscopic hardness tests show that, depending on the nature of the alloy and the type of carbide, the carbides will range in hardness from 70 to 95 Rockwell C., while the matrix will run from about 35 to 55 Rockwell C. This is a very broad statement and includes all types of alloys. The recorded hardness of any deposit then is a composite of the matrix and carbide hardnesses and the usefulness of the deposit varies only according to the condition of the matrix and the amount of carbide present.

Pure carbides are too hard to be worn down by anything likely to be found in the earth. Being very brittle they can be disintegrated by shattering or lost by the wearing away of the surrounding matrix. The matrix then, is of prime importance. It is always an alloy (due to dissolved tungsten or due to excess chromium or other alloys dissolved in the base metal along with the excess carbon).

If the carbon content of the matrix is below 1.7% the matrix has the general character of an alloy steel. If the carbon content is over 1.7% the character of the matrix then resembles alloy cast iron. Or to be a little more specific, since chromium is the principal alloy in the vast majority of cases we can call these two types chromium steel and chromium cast iron for the purpose of this discussion. The cast iron type resembles the ordinary white cast iron where all of the carbon is in the combined form rather than the gray cast iron where some of the carbon is graphitized.

Other types

Besides the iron base alloys there are nickel and cobalt base alloys. These alloys are used in large part for wear resistance in a corrosive

DO's and DON'Ts of Hardfacing

DO

DON'T

GENERAL

CLEAN BASE METAL

Keep welding and wire feeding equipment in first class operating condition by regular inspection, cleaning and overhaul.

Use first class equipment.

Adjust all settings before starting the job. Complete each job once started without allowing work to cool to room temperature instead of welding intermittently on several parts at one time. Only exceptions to this are manganese or stainless steels.

Avoid excessive dilution with base metal.

WELD ON OILY, DIRTY OR OXIDIZED BASE METAL

Don't fight the job. If you are having trouble stop and figure out what's wrong.

Don't overheat parts that have been heat-treated if you wish to retain as much of the original qualities as possible.

Don't allow manganese or stainless base metals to accumulate excessive temperatures. Keep heat below 500° F. at all times to prevent damage to base metal structure.

GAS WELDING

Use proper size tip for job and rod size. Set torch flame with 2x or 3x reducing feather.

Preheat base metal and bring up to sweating temperature in starting area, then braze or flow on hardfacing smoothly. For right-handed welder proceed from right to left so that flame preheats base metal ahead.

Don't start job when one or both bottles of gas are nearly empty.

Don't play flame directly on deposit. Slant it in direction of travel to preheat base metal ahead.

Don't try to weld in uncomfortable position. Be completely at ease.

MANUAL ELECTRIC WELDING

Use sufficient current for rod base metal and type of work to get the job done smoothly.

Check manufacturer's literature for correct polarity and settings.

Don't use excessive heats. Avoid over-dilution with base metal.

AUTOMATIC ELECTRIC

Use good sturdy positioning equipment to rotate parts being hardfaced.

Use the proper grade of flux free of excessive dirt, slag or moisture.

If reground flux is used add a definite portion, about 30%, of new flux of the same grade.

Do not use heavily knurled feed rolls on tubular wires.

Do not tighten feed rolls to point where they distort tubular wire.

Don't use fluxes with exceptionally high manganese content on parts to be machined later. Fluxes contribute manganese to the weld and may cause air-hardening.

SEMI-AUTOMATIC ELECTRIC

Use dry lubricant such as molybdenum sulphide to main smooth wire feed through hose.

Blow out hose often to remove metal shavings and excess lubricant.

Adjust arc length to permit welding in comfortable speed and without spatter.

Don't use excessive amperages unless you can afford excessive dilution.

Don't use knurled rolls or excessive pressure on tubular wires.

Applications of Hardfacing Materials

MAXIMUM CUTTING TUNGSTEN CARBIDE	MAXIMUM ABRASION CHROMIUM CAST IRON	MAXIMUM IMPACT CHROMIUM STEEL
Examples	Examples	Examples
Carbide 60%	4.0/6. O C. 26/35 Cr.	0.18/0.30 C. 1.0/3.0 Cr.
Steel 40%	3.0/4. O C. 16/25 Cr.	0.50/1.25 C. 2.0/6.0 Cr.
10 20 30 40	2.5/3. O C. 10/20 Cr.	1.0 /1.75 C. 3.0/12.0 Cr.
20 30 40 Down Mesh		
Bulldozer Blades	Bucket Teeth	Power Shovel Rollers
Bulldozer End Bits	Bucket Fronts	Power Shovel Idlers
Grader Blades	Scoop Lift Buckets	Power Shovel Tumblers
Grader End Bits	Sheepsfoot Tampers	Power Shovel Track Pads
Scraper Blades	Asphalt Mixer Paddles	Power Shovel Boom Heels
Ditcher Teeth	Paving Machine Paddles	Power Shovel Latch Bars
Scarifier Teeth	Paving Machine Screws	Tractor Rollers
Road Rippers	Paving Machine Agitator	Tractor Idlers
Elevator Grader Discs	Blades	Tractor Drive Sprockets
Post Hole Auger Flights	Crusher Rolls	Top Carrier Rollers
Post Hole Auger Teeth	Crusher Jaws	Tractor Grousers
Post Hole Auger Pilot Bits	Crusher Hammers	Bulldozer Trunnions
Post Hole Auger Points	Crusher Impactors	Ditcher Rollers
Quarry Master Bits	Crusher Mantles	Ditcher Drive Segments
	Crusher Liners	

or high temperature atmosphere. They may also be used to great advantage on earth working tools, but their cost is high compared to iron base alloys performing similar work. Their general properties as to wear resistance resemble the chromium iron-base alloys in that the lower carbon varieties withstand considerable impact, and the higher carbon varieties are better suited to abrasion resistance. They also have high chromium content, so for the purpose of this review let us assume that they are included with the chromium steel and chromium cast irons according to carbon content.

An alloy steel would normally be expected to withstand greater impact than an alloy cast iron and conversely an alloy cast iron would be expected to resist abrasion to a greater extent than an alloy steel. Hardfacing alloys perform very much according to this idea.

Buildup materials

Before the actual hardfacing of a worn part is performed it must be rebuilt to its original shape and dimensions with a material similar to and providing physical properties compatible to the original base metal. Hadfield manganese steel is used to rebuild worn parts of manganese composition, and low alloy steels usually are used to rebuild steel parts. The essential requirement of a buildup material other than compatibility of analysis is that it provide sufficient strength and rigidity to support the overlying hardfacing deposit without deforming. If upset occurs the nonductile hardfacing deposit lacks support and will crack. In severe cases, it will fail altogether and fall off. While buildup materials are sometimes used as hardfacing alloys, such as low alloy low carbon steel on tractor rails, they are in fact accessory materials and need not be considered otherwise for the purpose of this discussion.

Keeping in mind the risks of over-simplification we now have three general categories into which we can place all hardfacing materials. They are:

- Tungsten Carbide in Tubes
- High Chromium Cast Iron
- Chromium Steel

Applications

The accompanying table lists applications on construction equipment according to types of material used. These applications have

been standard for over 25 years. The list shows that tungsten carbide serves best where cutting or digging operations are involved; chromium cast iron where extreme abrasive conditions exist, and chromium steels for maximum impact conditions. Impact and abrasion are present in all applications but the degree of one over the other determines the type of alloy used.

Hardfacing is applied to a base metal part by a welding process. The deposit is designed to lay down at the hardness designated in the literature or to achieve such hardness through work hardening. All weld deposits are laid down as cast metal and as such all hardfacing alloys being in the highly alloyed, hardened condition are rela-

against non-metallics where impact is most severe.

The action of the tractor roller against the rail is an entirely different matter. This is pure metal-to-metal impact, sometimes extreme. The rails are usually faced with a low alloy steel, the rollers with an intermediate steel alloy, both having some small amount of ductility. A non-ductile material on either component would simply be pulverized, or would beat the opposing material out of shape.

Welding tools

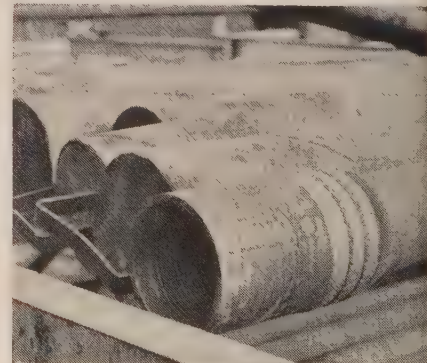
All of the tools of welding are available for the application of hardfacing including spray-guns, furnace brazing and heliarc. The



TRACTOR rollers faced with chromium steel



CRUSHER parts faced with chromium cast iron



DRILLING joint faced with tungsten carbide

tively low in ductility as compared to rolled and tempered steel. But the deposit, being attached to a base metal acquires strength from the physical condition thereby. Failure seldom occurs at the bond and while cracks may develop in the deposit after long exposure to heavy impact the alloy will remain completely serviceable. For this reason, the very highly alloyed, high carbon cast iron types of deposits work very well on crusher parts

manual-oxyacetylene and electric, the full automatic electric and the semi-automatic electric methods are most frequently employed for maintenance of construction equipment. The machine methods may be used for submerged arc or open arc deposition, with suitable wires such as tungsten carbide or Hadfield manganese which should always be run open arc to avoid overheating. Most of the high chromium high carbon alloys may be run open arc

if desired. The lower carbon steels are seldom run open arc since they have higher melting points and require arc stabilization which is supplied by submerging fluxes.

Manual rods and electrodes are widely used everywhere. Full automatic methods are largely confined to production type shops where there is sufficient work to keep such equipment operating on a pay-load basis. The semi-automatic process is the most versatile of all the methods. It has almost the portability of the manual applications plus the features of an automatic process. Semi-automatic equipment can be set up with proper positioning equipment to operate on a full automatic basis using open or submerged arc. It can be carried to the job in the field and its rate of deposition at times on suitable parts is about twice that of the full automatic. The full automatic in turn deposits metal two or three times as fast as manual methods.

In any consideration of deposition rate it must be remembered that heat is the controlling factor. Assuming sufficient available power and unlimited speed for feeding the wire fantastic deposition rates might be achieved if the heat effect on the base metal and on the deposit were not factors to be considered. Claims of unusually high deposition rates usually omit the almost invariably adverse effects on the base metal or deposit and should be viewed with reservations.

Welding methods

Because the application of hardfacing by welding resembles a brazing operation rather than a joining operation there is more danger of dilution by base metal than there is due to lack of bonding. In the oxyacetylene applications, for example, it is only necessary to bring the base metal to a sweating heat and to flow the weld metal on with a reducing type flame. The bond is hairline then, but strong. More penetration occurs in deposits made by electric methods, but can be kept to reasonable limits by proper heat control, electrode size, and by avoiding excessive heat buildup in the base metal.

Tungsten carbide should never be applied in multiple passes. Single pass deposits are sufficient. Additional passes serve only to dissolve most of the carbide in the under passes and no real good is achieved. Hadfield manganese and low carbon, low alloy steels may be built up any number of passes. The

intermediate alloys, high carbon high chromium steels can generally be built up several passes high, but the very high carbon, high chromium cast irons are usually limited to two or three passes. Base metal dilution, which is seldom noticeable in gas welds is still noticeable on electric welds into the second pass, but is usually of minor consequence or eliminated in the third pass.

Control heat

Many equipment parts such as grader blades are made of high carbon steel, others like tractor rollers and idlers are medium carbon steel. All parts subject to heavy duty are conditioned by some process of heat treatment at the factory to provide maximum service. Excessive heat effect beyond the weld zone can render these parts unserviceable or at least reduce their efficiency by loss of rigidity through softening or by embrittlement due to rapid cooling from high temperatures. Of course the welding zone will be greatly affected and generally lowered in hardness, but the added support and superior wearing qualities of the hardfacing deposit offsets the effect and greatly strengthens this area.

A good rule of thumb is to keep all parts under 500 deg. F. in temperature. Beyond that temperature Hadfield manganese steel can be weakened by grain enlargement and carbide precipitation, and heat treated parts can be measurably lowered in hardness by tempering. Also, beyond 500 deg. F. most submerging fluxes begin to stick and the problem of removal becomes extremely bothersome.

On the other hand, preheating is advisable on high carbon or high alloy parts, whether in the heat treated condition or not, in order to avoid cracking or failure due to sudden expansion under thermal shock. In cool weather preheating is advisable on any part. Postheating or retarded cooling on these parts is also advisable to avoid air-quenching and over-hardening.

Just about every part used in construction work can be hardfaced if proper precautions are taken in regard to the analysis and geometry of the part. White cast iron is very brittle and requires extreme care with no reliability as to success, so that it is rarely hardfaced. But substitute parts can be fabricated out of medium carbon steel for rigidity and hardfaced.

The question always arises as to whether or not new parts should

be hardfaced before going into service. The answer is yes, but if the part works in close tolerance it may be necessary to machine the part down to allow room for the deposit. Many operators wear such parts down in service before hardfacing.

The manufacturers of hardfacing materials provide excellent literature listing applications for and instructions in using their products. The reader is urged to avail himself of this information to supplement the highlights and general information provided here.

Very often the literature recommends several rods or wires for the same application. This is done to give the user a choice of different methods of applications, different types of weldability or to indicate that a cheaper material will also give good service. Since the major cost of an application is in time and labor it is usually more advantageous to use the best material for the job.

The purpose of hardfacing is to make equipment last longer, work better and to maintain peak efficiency for longer periods of time. With just a little understanding of the type of material and how to use it, hardsurfacing will do just that.

ARBA issues two new highway standards books

TWO new technical bulletins have been issued by the American Road Builders' Association, World Center Bldg., Washington 6, D. C. They are:

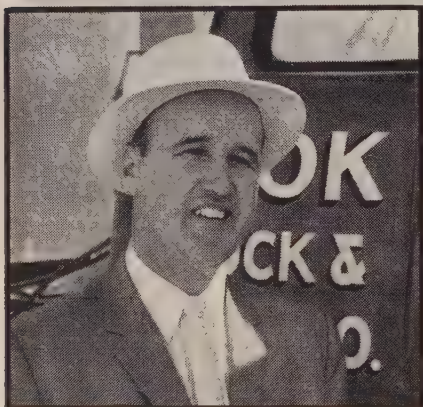
No. 244. *Standardization of Highway Bridges*. Papers presented at the 1959 ARBA Convention reviewing progress in the standardization of bridge components on both large and small structures, the utilization of standard bridge designs as guides in accelerating production of plans for the superstructures of small span bridges, and methods of expediting bridge design and more effective methods of considering alternate solutions for long-span structures through the use of new electronic computer methods. List Price, \$1.

No. 245. *A Reference Guide for Negotiation of Engineering Services for Highway Work*, prepared by the Committee on Professional Engineering Services, Engineering Division, ARBA. A guide dealing with scope and fees for engineering services performed by consultants on express highway projects in the United States. List price, 50¢.

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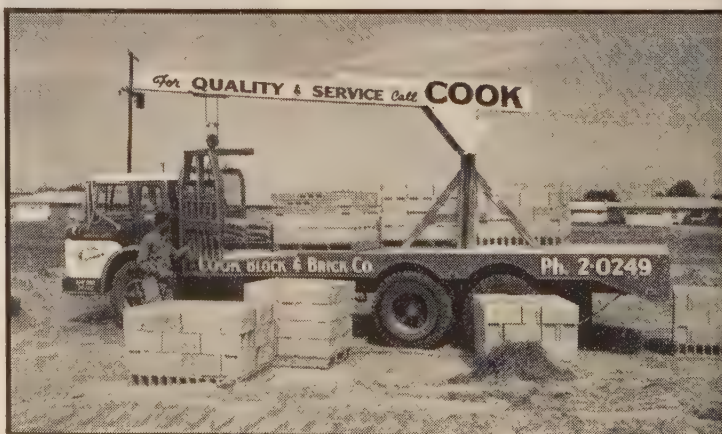
**ANOTHER REPEAT BUYER
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Virgil E. Cook, owner of Cook Block and Brick Co., is convincing proof that there is still plenty of opportunity in American business for those sound planning, hard working individuals who want to own their own business. Starting from scratch just 13 years ago, he now owns and operates one of the largest concrete products plants in Eastern Indiana. The workhorses in his fleet of 16 trucks are three Ford Tilt Cab Tandems that are used to haul sand and gravel to the plant and make deliveries in and around Anderson.



Hard-working Ford CT-950 tractor leaves Cook gravel pit with 18 yards of aggregate. Aluminum walking beam and rubber suspension system of tandem axle assembly reduce chassis weight, permit higher legal payloads.



Cook's CT-850 with special flat-bed body and Side-O-Matic unloader delivers blocks right to the job site. Unit carries 600 concrete blocks and spots them where needed.

Our experience has proved that Ford Trucks can be operated at substantially lower maintenance costs than any other make we've tried. And, equally important in a fleet like ours, we find that our Fords spend much less time in the shop. None of the Ford units purchased since 1958 have been in for major repairs and I am still amazed at the way the older ones keep going.

"The best truck we've ever owned is a 1954 Ford C-700 that consistently carries a load of 350 to 400 sacks over all types of terrain. In spite of this severe work it ran 125,000 miles before we replaced the engine. This unit now has over 140,000 miles on the original ring gear and pinion and it went 60,000 miles before we replaced the brakes and put in a new clutch. This is outstanding mileage when you consider that we've realized as little as 12,000 miles from competitive ring gear and pinion sets. Clutch and brake life obtained with other makes in identical service was only 20,000 miles. Its results like this that keep our costs low and convinced

us that we should stay with Fords when we bought our bigger trucks in '58.

"Our 1958 and 1959 Ford Tilt Cab Tandems give every indication of equalling or surpassing the fine records set by the C-700. The two CT-950 tractors hauling sand and aggregates to our processing plant breeze through traffic and take the hills like they weren't there at all. Our CT-850 equipped with a flat-bed body has the power and traction to deliver finished products anywhere. With Ford's tilt-cab design we get a real plus as far as payload is concerned because we can carry at least 2,000 pounds more weight on the front axle.

"We buy Ford Tilt Cab Trucks because we think they're the best engineered and most modern gasoline trucks in the heavy-duty field. Here at last is a truck built to permit big legal payloads with enough power to move these loads at economical speeds. We pride ourselves on our modern and efficient equipment and consider our Fords one of the most valuable assets of our business."



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Certified results of tests conducted by America's leading independent research organization (name available on request) confirm the fact that Ford Super Duties have been refined for still more durability! Automatic radiator shutters, improved electric fuel pumps and redesigned wiring harnesses are typical of the advancements to be found in these units.

Automatic radiator shutters reduced the coolant temperature variation recorded in severe mountain road

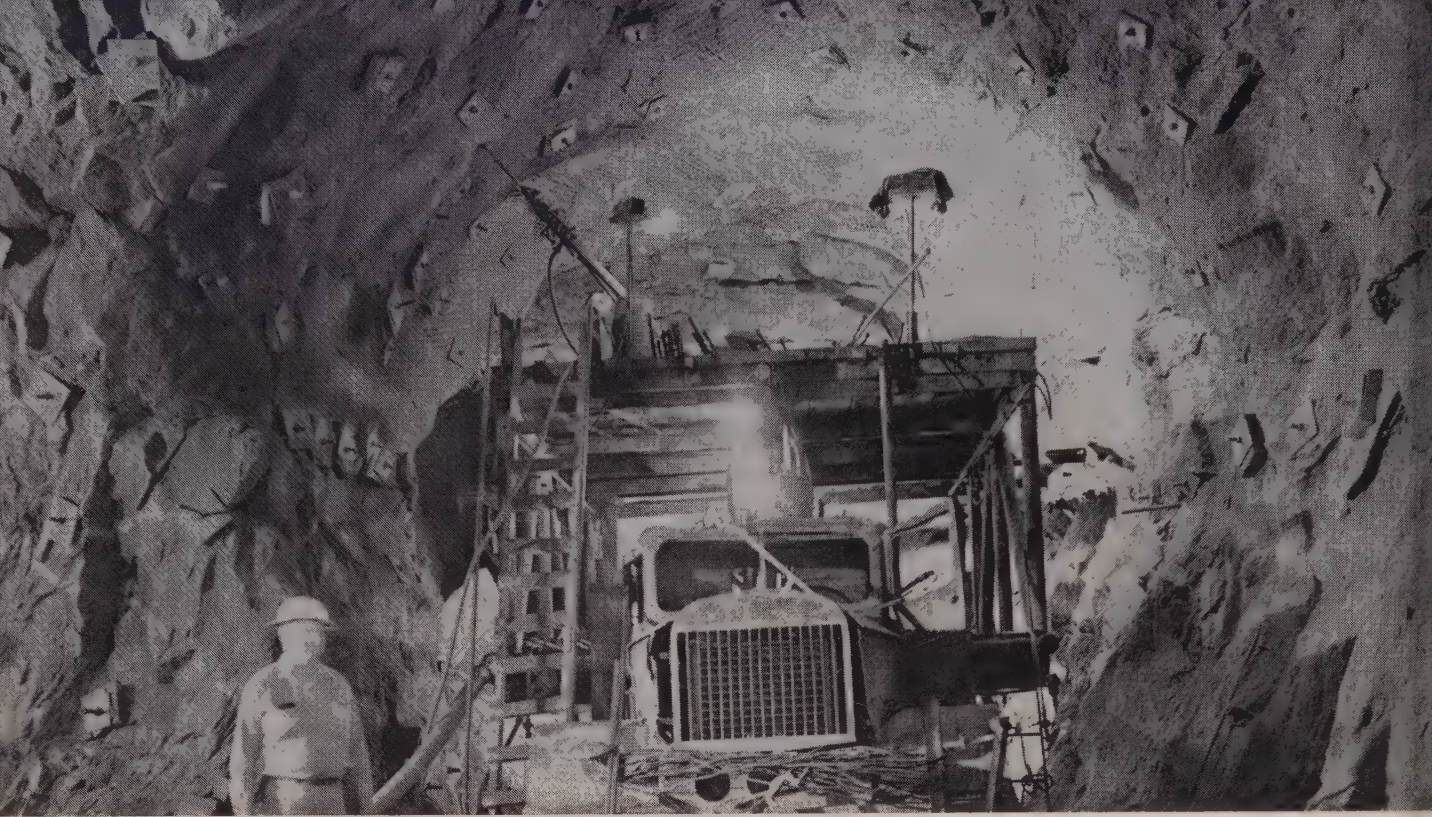
tests from a 79° range to a 20° range. Engine operation with coolant temperatures in the 167° to 187° range means less expansion and contraction, more efficient combustion and better lubrication . . . all of which contribute to longer engine life.

Dynamometer tests showed *no vapor lock* with Ford's submerged-type electric fuel pump at temperatures up to 200°. Incipient vapor lock with mechanical fuel pump resulted in a power loss of 9% under the same conditions. Shaker table tests plus constant exposure to oil, water and heat proved 1960 wiring harness to be *three times longer lived*.

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ROCK BOLTS —

Applications in construction

THE WEST will witness an expanding volume of underground construction. More water will be conveyed in tunnels as delivery systems are extended from sources to points of use. More highways will be punched through ridges and mountains as modern alignment and traffic load dictate a reduction in the climbs over such obstacles.

Use of bolting to pin rock in such openings has been a well recognized construction procedure for several years. In 1954 Western

Construction presented the first extended review of the subject in a two-part article that detailed equipment and methods. During the intervening years there has been increasing use and applications of rock bolting.

After five years it is time to bring the entire subject up to date for our readers. This authoritative article has been secured and is being presented in two installments.

—Editor

PART I

SUPPORT of underground openings, since the days of the caveman, has been to use timbers, usually in the form of sets consisting of two posts and a cap piece, to reinforce the opening. With the advent of steel and concrete, timbering has been replaced in many permanent openings by these materials. Often in such permanent openings, timber or steel sets are installed for protection during the driving or excavation of the opening, followed by concrete lining for permanent support.

Regardless of the use of these materials, no reinforcement is made of the opening itself. Actually, the

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Assistant Manager

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opening must start to close or fill before the supports become effective. Hence, if no weight comes upon the timber or steel sets or concrete lining, they would not have been necessary.

Rock bolting, which has come into prominence since 1947, although known and used long before, approaches the problem of support from the point of view

of reinforcing the rock surface itself so that the opening will tend to become self supporting. Various ways in which rock bolts do this are:

1. To form a beam across an opening.
2. To reinforce an arched opening which would otherwise fail.
3. To reinforce the fractured zone, caused by blasting, of the surface of an opening which would otherwise be self supporting.
4. To reinforce walls against shear and compression.

The process of rock bolting to accomplish the above consists basically of three steps:

FROM the top deck of the jumbo, rock bolts are being installed at the downstream heading of the Clear Creek Tunnel, a feature of the Trinity Dam Project of the U. S. Bureau of Reclamation.



First, of anchoring a bolt of sufficient length, which may range from 2 to 20 ft. or longer, in the bottom of a hole drilled in the rock for this purpose.

Second, of applying tension to the bolt at the surface of the rock and so squeezing or tying the rock together.

Third, of placing bolts in such a pattern that they will accomplish their mission of reinforcing the opening, wall or slope.

In connection with this third step, it is often necessary to use some sort of lagging or reinforcement between the bolts to hold fractured material in place or prevent spalling off of the surface upon exposure to air or weathering. This may be in the form of wooden header boards for temporary openings or, more permanently, steel channels, steel roof ties and straps, war surplus landing mats, and metallic chain link fabric. Of these, the chain link fabric is probably the most versatile and is being used to the greatest extent.

Since its object is to make the ground itself an integral part of the support structure, the main keys to success in rock bolting are: (1) to install the bolts as soon as possible after the opening is made, and (2) to place them in a systematic pattern.

Details of the types of rock bolts and accessories, methods of anchorage and application procedures have been detailed previously in *Western Construction* and are available from any manufacturer of these items. Most manufacturers of rock bolts also have available engineering consultation on any specific applications and are set up to perform anchorage pull tests.



AT the adit-tunnel junction in the clear, the creek tunnel rock bolts are thick and wire mesh has been added to catch rock fall-outs. Rock bolts were used for support for 6,700 ft. downstream, and 6,000 ft. upstream from the adit. Steel plate washers 10 x 10 in. were used with wood blocks and wedges. The two photos are from the Bureau of Reclamation.

The U. S. Bureau of Mines also maintains a staff of rock bolting specialists throughout the Western U. S.

GENERAL APPLICATIONS

In construction, the use of rock bolts usually falls into three classifications.

First, as derived from their common usage in metal and coal mining, they are used for support of tunnels. Most generally this is for temporary support during the driving of the tunnel with the bore later being concreted for permanency. They have also been used as permanent support with many successful applications in tunneling operations dating back to 1950. In mining operations, a few rock bolted drifts date back to the turn of the century with the bolts still successfully maintaining the opening. Tunnels supported by rock bolting have ranged in size from 6 to 46 ft. in diameter.

Second, rock bolts are being used in the excavation of underground chambers, some of which have been very large. To date most of this work has been done outside of the U. S. except in mining operations for shaft stations and hoist rooms. Among the largest of these have been underground powerhouses ranging as large as 83 ft. wide x 700 ft. long x 120 ft. high, and 1,400 ft. underground. In this case, rock bolts, with or without lagging between them, are usually used for temporary support only during excavation as the opening is generally concreted for permanency.

Third, the support of walls and slopes by rock bolts or a rock bolt-metallic fabric combination is becoming a more and more common application of rock bolts in construction such as for the slopes above tunnel portals and the protection of highway cuts.

SPECIFIC APPLICATIONS

Going beyond the foregoing statement covering general applications, any discussion of rock bolting must approach specific situations and how they have been met. This becomes difficult because rock is a natural material and tends to defy rules and standardized solutions. As an alternative to trying to propose definite solutions to hypothetical bolting problems it is better to review existing installations to illustrate with actual job data how specific situations were successfully met.

There follows a series of case his-



Schmuck

ABOUT THE AUTHORS—

A graduate of the Colorado School of Mines in 1940, Howard Schmuck has had a career in metallurgy and mining supply sales, with emphasis on the promotion of rock bolting during his seven years with C.F.&I.

Graduating from the same college in 1949, Donald Siljeström has been with C.F.&I. continuously, located in mining centers throughout the West. For the past two years he has also specialized in extending the use and field testing of rock bolt installations.



Siljeström



CLOSE-UP of wire mesh in the Clear Creek Tunnel showing rock-bolt pattern and loose rock fragments caught in the mesh. Tunnel was driven through hard, coarse grained granite.

ories of rock-bolt installations to illustrate the problem encountered and the treatment used.

Tunneling

Clear Creek Tunnel—This tunnel is a feature of the Trinity Dam project under construction in California by the Bureau of Reclamation. It furnishes a typical example of the use of rock bolts. The completed tunnel will be 10.5 mi. long. The driven section is 19.5 ft. in diameter and the finished cross-section will be 17.5 ft. in diameter. An adit has been driven to intersect the tunnel at a point about 8.5 mi. downstream from the inlet portal.

Rock bolt support was required in the tunnel for the immediate 6,700 ft. of downstream heading from the adit as well as about 6,000 ft. upstream. Bolts were also required in the adit itself. The rock is hard, coarse grained granite composed of micaceous and hornblende gneisses with tongues of quartz diorite. Joints, slips and fractures were present and small quartz dikes intersecting at various angles had penetrated the granite. The rock itself was firm and little sloughing had occurred from blasting or exposure from air and water. Water flow was fairly constant at approximately 1,500 gal. per min.

One-inch slot and wedge type bolts of 8- and 10-ft. lengths were used throughout, except for a small quantity of 12-ft. bolts used to hang air ducts.

Steel plate washers 10 x 10 in. square by $\frac{3}{8}$ in. thick with center hole were used with the bolts.

Wooden blocks and wedges between the washer and rock surface were used in some places to give more bearing against the rock.

Drilling and installation was done with percussion equipment. Tightening was done with impact wrenches to a minimum of 250 ft./lb. torque. A torque wrench was kept available for check readings that were taken periodically by both Bureau of Reclamation and contractor personnel. This also was used to check the operating efficiencies of the impact wrenches used.

Pattern bolting was carried out, initially with the pattern consisting of six 8-ft. bolts fanwise from the centerline of the top of the arched opening on 4-ft. centers. This was modified as bolting progressed according to experience and the conditions encountered. The result was a much denser bolt pattern in the adit itself. In addition, to bolts in the arch of the adit, rock bolts were also used for wall support as far down as 3 ft. from the floor.

In the tunnel, the original bolting pattern was adhered to where considered necessary. In many areas, however, they were only necessary where a sloughing zone appeared in the roof.

Ungalvanized or "black", CF&I Realock Chain Link Fabric with 2-in. opening and of No. 9 gage wire was used for lagging between rock bolts in the adit section and in areas where numbers of workers assembled. The adit area will be grouted when completed. Accompanying pictures show an intersection illustrating the use of rock bolts and fabric.

Only available information on labor and costs is that a four-man crew installed an average of 50 bolts per 8-hr. shift, including fabric.

Hill Creek Diversion Tunnel—

This is an 1,100-ft. long x 28-ft. diameter, concrete lined tunnel being used to divert the Willamette River during construction of the Hills Creek Dam. The ground through which the tunnel passed is primarily volcanic tuff much of which is broken up and mixed with clay. In driving the tunnel, about 60% of the length was rock-bolted while the remaining 40% was supported by steel ring sets.

Rock bolts were placed in the tunnel arch above the spring line as required. Generally, they were placed on 4-ft. centers and closer where required. One-inch slot-and-wedge type bolts were used of 6 and 8-ft. length with the majority being 6 ft. long. Steel bearing plates 6 x 6-in. and 8 x 8-in. square x $\frac{3}{8}$ -in. thick were with the bolts.

Bolts were installed from the drilling jumbo. Anchorage was accomplished by driving for 30 sec. with a stoper type drill using 80 to 90 lb. of air. Tightening was accomplished with an air impact wrench to a minimum of 250 ft./lb. This was checked regularly with a torque wrench.

No serious accidents or roof falls occurred on this tunnel which was the first in which rock bolts were used in the state of Oregon.

Glen Canyon Dam—Large quantities of rock bolts were used in driving the various diversion, spillway and access tunnels in this largest of Western construction projects. Both the 1-in. slot-and-wedge type and $\frac{3}{4}$ -in. expansion shell type bolts were used extensively with uniformly excellent success.

A picture shows the section of the Right Diversion Tunnel which varies from about 43 ft. to 46 ft. in diameter. This tunnel was subcontracted to Northwood, Inc., who used 1-in. slot-and-wedge type bolts in this particular tunnel.

Complete ground support was obtained through the use of rock bolts alone in all tunnels except where the ground was badly faulted and steel sets were required. For example: In the access road tunnel (see picture) of about 10,000 ft. in length on an 8% grade, an arched section 23 ft. high and 20 ft. wide was used. Of the 5,000 ft. of this tunnel driven by Frazier-Davis Construction Co., only 200 ft. was supported with steel arch sets, the remaining 4,000 ft. with rock bolts.

Bolts used were $\frac{3}{4}$ -in. expansion type 6 ft. long, with an 8 x 8 x $\frac{3}{8}$ -in. steel plate washer.

The left diversion tunnel of 2,900-ft. length and 43-ft. to 46-ft. diameter was driven without support other than rock bolts except for the last 40 ft. at the downstream portal which was badly faulted and required steel sets. All bolts were $\frac{3}{4}$ -in. x 8-ft. expansion type with an 8 x 8 x $\frac{3}{8}$ -in. steel plate washer. No mesh or lagging was used.

In these tunnels at Glen Canyon, bolts were installed simultaneously with the drilling of the heading by men assigned to this job. Holes were drilled with feed leg machines and tightened with air-driven impact wrenches.

Flaming Gorge Dam — Limited quantities of 1-in. slot-and-wedge type rock bolts were used in the diversion tunnel and will be used in the 1,200-ft. long by 27-ft. diameter spillway tunnel. The ground is generally good enough to stand without support and rock bolts are used only where considered necessary to hold slabs or blocks.

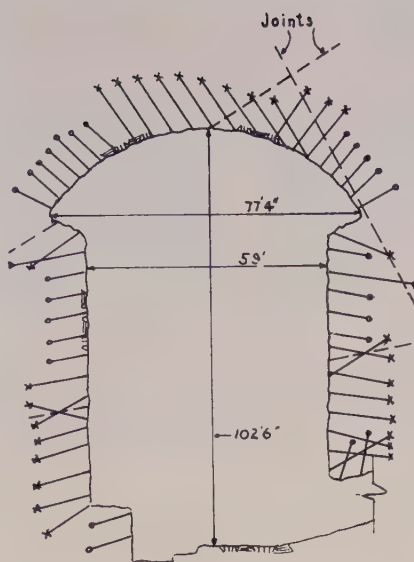
There is an interesting installation of rock bolts in the Inca Adit of El Salvador Mine, Andes Copper Co., Chile. This is a 3.64-mi. tunnel of 14 x 17-ft. horseshoe section driven through an andesite agglomerate containing numerous fault structures. About 70% of the tunnel driven to date required support. When support is required, ordinarily a ring of five bolts is set from the back end of the drilling jumbo every time a round is drilled. If more support is necessary, a galvanized 2-in. x 8-ga. chain link fabric is installed between the bolts. Two types of bolts are used, the $\frac{3}{4}$ -in. expansion type where bolts are used alone and the 1-in. slot-and-wedge type bolt where the fabric is required.

Other installations previously reported:

- Diversion Tunnel of Box Canyon Dam in Washington.
- Outlet tunnel at Keyhole Dam in Wyoming.
- Duchesne Tunnel in Utah.
- Gateway Tunnel in Utah.
- Kemano power development of the ALCAN project in British Columbia.

Support of large openings

In construction, the major use of rock bolts to support large underground openings has been in the excavation of underground powerhouses. The largest of these, to date,



PATTERN for rock bolting during excavation of a large underground hydro power plant in Australia. Spacing was on a 5 x 5-ft. pattern. Note 77-ft. arch span and 102-ft. height.

have been outside the U. S. In this country considerable storage is already being done underground. Materials stored include surplus foods such as dairy products, ordnance material and liquefied natural gas or petroleum products. Fairly large chambers have been excavated in mining operations as hoist rooms, shaft stations and underground repair shops.

Considerable storage underground is in worked-out quarries. While these may have been originally excavated without support beyond the pillars left behind, when converted to storage areas of a permanent nature, the roof is often bolted extensively before moving in the material. This type of storage, powerhouse, defense and other permanent underground installation should increase both in usage of existing openings and in new ones excavated for this purpose with resultant business for the construction industry.

An outstanding foreign installation is the Snowy Mountains Scheme in Australia. A feature of this scheme is the T-1 Power Station which has been excavated 1,000 ft. below ground surface. The power station includes a machine hall with maximum height of 105 ft. and a transformer hall 43 ft. high.

The rock at the power station is granitic gneiss with sheets of granite intrusive with the gneiss. Both rock types are extensively jointed in an irregular pattern.

Ground-water conditions and necessity that the roof be free drain-

ing indicated that an open rib type of reinforced concrete arched ribs on 8 to 12-ft. centers be used for permanent support. On the basis of the rock mechanics involved, model studies, photoclastic investigations and tests, it was decided to support the roofs of the machine and transformer halls with rock bolts during excavation and prior to placing the concrete ribs. It was also decided to use rock bolts for wall support.

Results are successful

Results obtained were very successful using 1-in. slot-and-wedge type bolts throughout. The arched roof of the machine hall was first excavated with rock bolts installed as the roof surface became exposed. Along with the bolts, supplementary light steel ribs were installed on 4-ft. centers along the roof. The roof was then completely opened, the light steel ribs were removed and the permanent concrete abutments and roof ribs were placed. The remainder of the depth of the machine hall was then excavated by quarrying in benches until the floor level was reached, 102 ft. below the arch. All vertical walls were rock bolted as they were exposed.

As the light steel ribs were removed from the machine hall, only minor scaling occurred and no rock movement could be detected. In view of this, the transformer hall of 40-ft. width was excavated with the use of rock-bolt support alone. The sketch shows a typical rock bolting pattern used in the machine hall.

Another interesting installation is in the underground hoist room in a copper mine. Slot-and-wedge type rock bolts (1-in.), 8 ft. long were used during excavation to support the roof and walls of a 50 x 35 x 22-ft. high underground hoist room on the 4,000 level of the Mountain Con Mine after timbering had failed. The room was then entirely concrete lined for permanency. The outstanding feature about this application is that the ground pressures encountered at this level are among the severest on the North American continent yet rock bolts did a completely successful job of temporary support

* * * *

In the next issue, Part II of this article will discuss the use of rock bolting in supporting walls and slopes. It will also present information on prices and bolting costs.

—Editor

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RIPPING —

Developments in tools and techniques

ALL aspects of ripping continue to hold the spotlight among Western contractors, where this modern development originated and had its remarkable growth. Information accumulates in the field with all of its practical knowledge, and this is being supplemented by scientific aids. As the boundaries of this method are pushed back more difficult materials are being ripped at higher unit costs, where the comparative price of drilling-and-shooting represents the ceiling.

WESTERN CONSTRUCTION published one of the first authoritative reviews of the subject in January 1957, when the method and equipment was beginning to develop well recognized rules and standards. At about that time, although the general process was an old one in construction, the matter of comparative costs was emerging, together with the analysis of factors relating to the power of the equipment, its tractive force and weight. A diagram in that article began to establish some of the limits in relation to the classification of materials and equipment requirements.

During the past three seasons much knowledge has been accumulated in the field as more and more

Use of rippers in excavating material continues to advance in volume and number of jobs, while techniques and procedures are approaching some standards.

contractors have been ripping under a wide variety of circumstances and conditions. At the same time, matters of ripper design, metallurgy, costs to determine practical limits in the wear on equipment and more technical considerations in character of rocky materials have aided in advancing this trend.

One of the most recent scientific tools to be introduced is a small portable seismograph as a means of quick and inexpensive exploration of sub-surface conditions over the site to be excavated. This article will review the principles and use of the portable seismograph and then outline some other factors in the expanding use of rippers.

Portable seismograph

Recently the Caterpillar Tractor Co. has adopted and applied a method of seismic analysis slanted directly toward securing sub-surface information that can be used for anticipating rippable materials. To be of use to an earth-moving

contractor, either before or after bidding, the procedure and equipment must be reduced to its simplest elements, since speed and low costs are the factors that must be considered on an excavating job.

Further, the matter of interpreting the information secured by the instrument is equally important, since the work would be carried out by men who are not experts in the field of geology and seismic exploration.

The instrument was already available in commercial form; the principal question related to a method of producing the necessary shock wave through the ground without using explosives. A practical solution has been to produce a shock wave on the surface of the ground using an 8-lb. sledge hammer striking a steel plate, 1 in. thick and 6 in. square. This procedure produced an impulse which resulted in a shock wave strong enough to provide readings to a depth of 50 ft.

Equipment needed for seismic

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analysis includes a source of a sound or shock wave, a receiver, an electric counter, and a set of tables.

The sound or shock wave can be produced by several methods. In petroleum work, dynamite is usually used. This can give readings down to more than 25,000 ft. Such depth is not needed to check a highway cut. In addition, even small blasts should not be set off in many areas due to proximity of the contractor's men and machines or populated areas. For the purpose of this type study an 8-lb. sledge striking a 6-in. square, 1-in. thick, steel plate produces an adequately sharp wave, strong enough to provide readings to depths of 50 ft.

The receiver is a standard geophone—a moving coil in a silicone fluid, resting on a base. A cone-shaped base can be pressed into the ground for better pickup in loose soils.

An electronic counter determines the time interval between the strike of the hammer and the arrival of the seismic wave at the geophone.

Knowing the time (in milliseconds) of the wave travel and the distance from the hammer to the geophone, depth and wave velocity can be quickly computed with two formulas. Caterpillar has conducted over 200 tests on construction jobs in 18 states to establish tables of rippability based on wave velocities for a dozen of the more common materials. Since wave velocities and rippability vary by consolidation, the table can be used to learn if a certain velocity through

a certain material indicates it is rippable. Additional tests are being conducted to expand the list of materials covered as well as to narrow the uncertain zone between rippable and unrippable consolidations.

Here is a description of how a typical test might be carried out: At the top of the cut, two men unload their equipment. First they open a small metal case, about the size of an overnight case. Inside is the electronic counter, ready to operate on self-contained batteries. A geophone is set on the ground and its wire plugged into a receptacle in the face of the counter. One end of a 100-ft. wire is plugged into another receptacle, and the other end connected to a spring contact switch on an 8-lb. sledge. A small steel plate is set on the ground 10 ft. from the geophone.

One man stations himself at the counter to take readings while the second swings the sledge. When the sledge strikes the plate, the switch snaps closed, starting the counter. Lights flash across the counter, marking the milliseconds fleeting by until the seismic wave reaches the geophone. This wave stops the counter, and the steady shining lights indicate the time lapse. This time is noted on the data sheet opposite the distance from plate to geophone while the hammer man moves the plate to a new location, in line with the first, but 10 ft. further from the geophone. This process is repeated every 10 ft. until the plate is 100 ft. from the geophone. Then a second set of readings is run at a right angle to the first.

In 30 minutes the test is completed and computations made.

Results obtained with the seismic method have been compared to those from core drilling and the agreement was very close. For further information,

The procedure and principle of seismic exploration are well established and the information easily obtained. There remains the matter of interpreting the information in terms of the material and the final question as to its rippability.

In any kind of sub-surface exploration, the more information the better. In some locations engineers may have tested the site by drilling or open pits which provide fundamental information that can be used to help analyze and establish a base for interpreting the seismic data. Such actual exposure of the rock itself will also aid materially since the seismic readings may reveal the general type of rock but not some of its characteristics which are important in the use of the ripper.

Seismic data in itself, with all the useful information it provides, has its shortcomings, or there would not be so many dry oil wells.

However, it does represent a big step forward in determining what a contractor may expect and how the excavation may be handled in advance of bidding.

The more the method is used, with field data accumulated and personnel becoming more expert in interpretation, the more important this tool will become.

Practical field problems

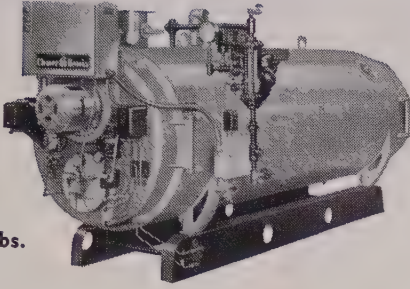
In spite of all types of scientific data in job analysis, the final answers are determined in the field when the dirt begins to move. Nature has a perverse way of turning out to be different than man anticipates. That is one of the first steps that any earth-mover learns. Rock may have a certain hardness which would tend to make it non-rippable, but can be fractured in its normal state so that it could be loosened and broken with rippers. Bedding planes and their angles may be another factor of importance on any one job. Possibly rock which could not be ripped in one direction would be quite rippable in the reverse direction. Again, the best ripping direction might be at right angles to the center line of a narrow cut which would represent an economic factor.

Variation of the rock is a most important factor since it means a

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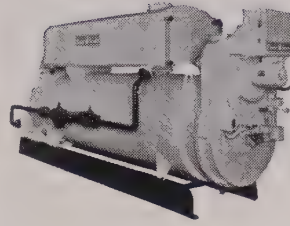
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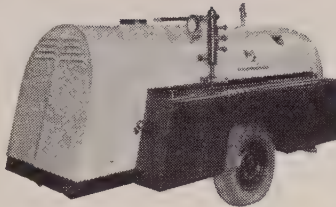
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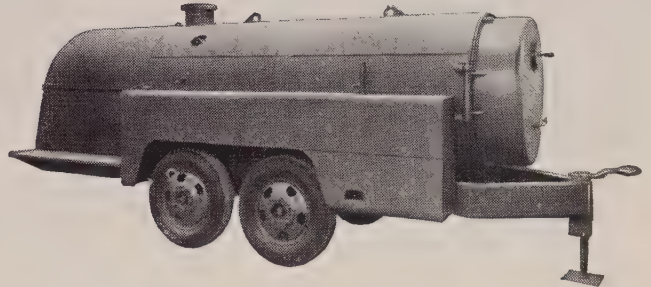
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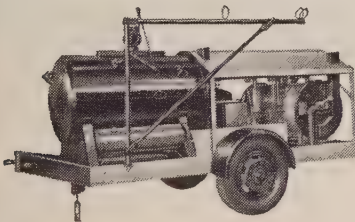


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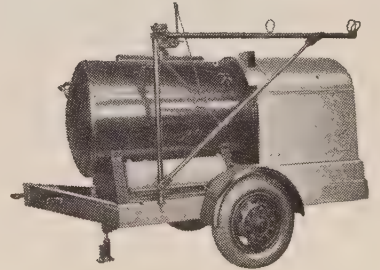
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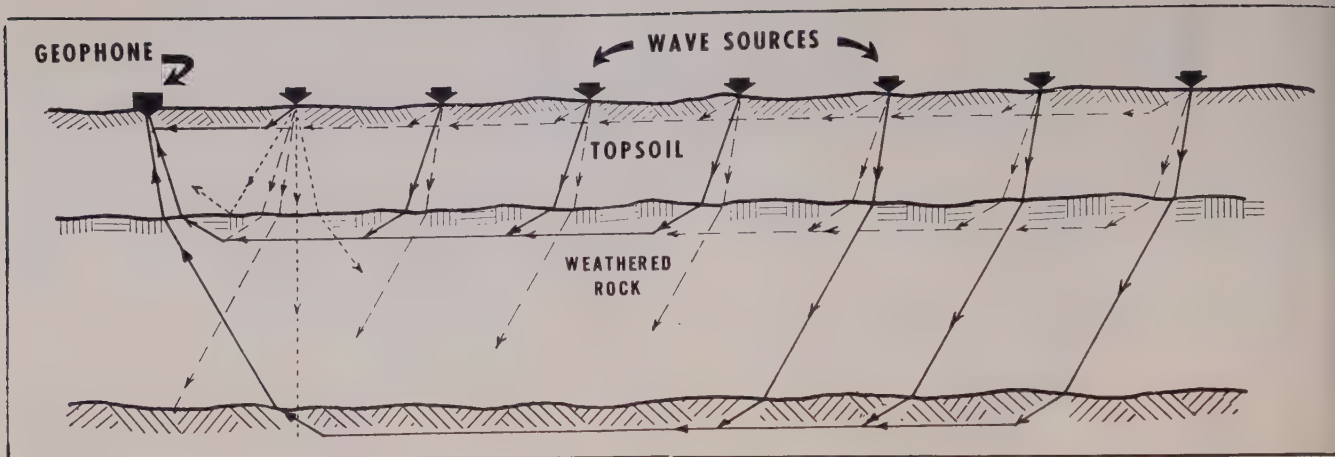
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OPERATION of the seismic analysis equipment can be seen in this diagram. Seismic waves are created at the narrow, starting at a point 10 ft. from the geophone and moving out 10 ft. at a time to 100 ft. At 10 ft. the wave near the surface is the first to reach the

geophone. From 20 to 40 ft. the wave traveling through the denser weather rock reaches the geophone before the waves traveling through the less dense topsoil or the deeper bedrock. Beyond 40 ft., the waves traveling through the bed-rock are the first to reach the geophone.

change in the most economical equipment for the job. Small areas of non-rippable rock on a large job represent a particular hazard to overall low cost earth handling. Possibly these can be ripped even using the equipment in a manner which would be considered abuse on a larger volume.

Ripping is only a preliminary to loading and removing of the material. Results of some ripping provide material that will load easily and cheaply. Other rock which can be ripped, by using the term broadly, represents an end product that will be hard to load and mean heavy maintenance on the scraper equipment. The factor of tire costs is important at that point.

Going on with the various intangible aspects of the problem is the type and amount of equipment which the contractor has available. Of course, on large jobs where much equipment is available and new units can be afforded, this does not represent so much of a problem. But, for the average or small contractor who must bid considering the equipment that he will be able to place on the job, the ripping will be a factor of the equipment and not the reverse. Possibly he will not be able to rip with what he has available and this will change the cost factor.

All of these elements enter into the final picture which is the cost of getting out the material and moving it to the point of disposal. Seismic information adds just that much more to the pre-bid study, and from this point those who are familiar with the geology of the area and the practical use of ripping equipment must add a strong voice to arriving at a proper bid.

Out on the job other elements become important. Ripping has

developed experts who understand the best use of equipment and procedures. Any contractor will be well advised, if not familiar with ripping operations, to consult with those experienced in this tricky subject. The contractor may believe he is ripping quite effectively, without realizing that the abuse on his particular equipment units is raising his costs above his estimate. Some minor change in his equipment or its use, as pointed out by those familiar with this type of field work, could be a difference between profit and a loss. Possibly he could rip to a shallower depth with less strain on the equipment and less overall cost, as compared to purchase or rental of other units.

Another common factor is the matter of leaving enough loose material on the ripped surface to provide adequate traction.

"Rippable" as a legal term

Over the years the matter as to whether a material was "earth" or whether it should be classed as "rock" has led to so much controversy and legal discussion. Today most agencies prefer to specify merely total yardage of material to be moved, leaving it up to the contractor to make his own decision as to its classification.

An occasion has already developed into the stage of legal controversy, because a contractor elected to negotiate a bid price based on the yardage figure for material that could be "ripped" and another figure for material that was "non-rippable." This leads to interpreting headaches. If a ripper is able to move a tooth through the material and provide a loosening effect, it could be classed as "rippable" un-

der any language of a contract or verbal agreement. On the other hand, such material, although loosened, would be far from a condition where it could be loaded economically and therefore would be considered distinctly "non-rippable" by the contractor. This merely represents another facet in the broad subject and an angle that must not be overlooked in any contract negotiation or verbal understanding.

How far will ripping go?

During the past couple of years material has been ripped successfully and economically that would have been classed as distinctly non-rippable some years ago. Costs of ripping have declined with the advent of more powerful machines, improvement in rippers and teeth, not to mention use of tandem rigs.

Nevertheless, the wear and tear on equipment mounts as the material approaches the limit of ripping. Wear on crawlers and resulting costs in maintenance and replacement can run extremely high. These costs and the added expense of applying larger rippers and pushers will mount to the obvious ceiling represented by the cost of drilling and shooting the same material. Therefore, the cost of ripping in itself is not a factor in a comparative sense, but only as it remains below the cost of carrying out the operation of breaking up the material cheaper than by any other method.

Much of the information contained in this review was secured through conversations with Ken Park and Don LaGraffe, engineering consultants, Engineering & Performance Division, Peterson Tractor Co., San Leandro, Calif.



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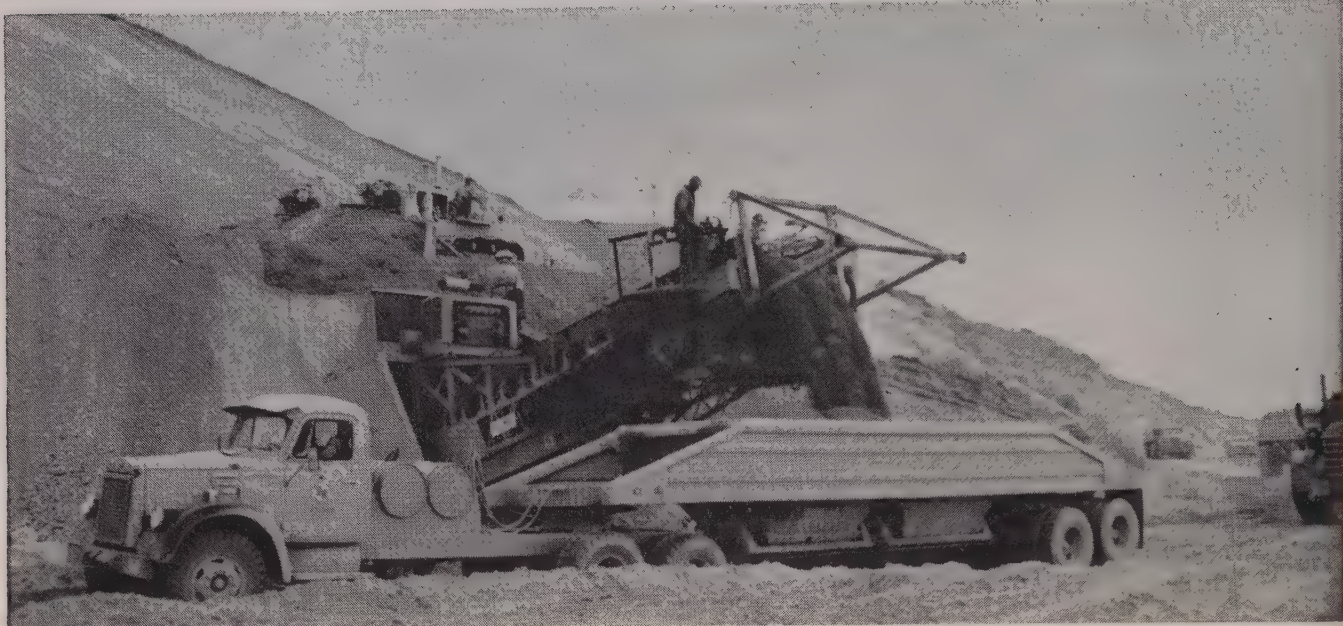
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LOADING OPERATION is fast, averaging 8,000 cu. yd. per day through belt loader. Two to four D8 Cats keep the Kolman belt hopper full. Contractor has 16 rigs making 15-min. round trip with fill material. Ten are Cook Bros. trailers, 20-ton capacity, pulled by IH tractors.

Salt Lake City Freeway requires — Building the West's toughest fill

Huge embankment on bad ground forces engineers to open wide their bag of tricks. Despite restrictions, contractor keeps job in high production class with use of high-powered fast-moving equipment.

UTAH is fast becoming known for its unusual earth-moving projects. No sooner is the big railroad fill completed across Great Salt Lake than another series of jobs starts in downtown Salt Lake City which are just as tricky from an engineering viewpoint.

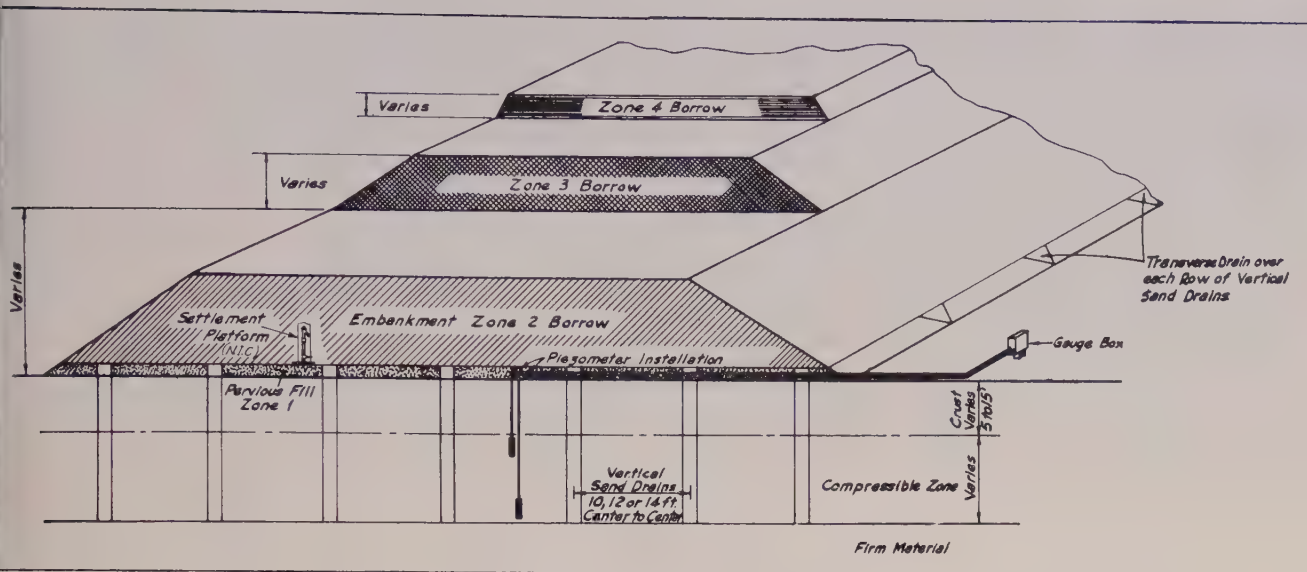
Picking a location for Utah's North-South Interstate route past Salt Lake City gave the state politicians and administrators plenty to argue about, and they did so for a couple of years. The route they eventually decided upon may have solved their problem but it made life miserable for the engineers. The center line of the 6 and 8-lane freeway passes through the city on the west side of the business district through some of the worst soil conditions imaginable. The State Road Commission turned over the design to the nationally known firm of Porter, Urquhart, McCreary and O'Brien and the Salt Lake City firm of Caldwell, Richards & Sorenson, Inc.

The engineers soon found that because of ready availability of good granular material the most economical design was a compacted embankment ranging in height up to 30 ft. This design was found to be much more inexpensive than an elevated concrete structure, which was also considered. The problem was that the enormous weight of the embankment would have to be carried on soil which is, in a word, lousy. (AASHTO classification of A-5, A-6, and A-7 with up to 65% water content.) As the weight of the embankment forced the water out of the underlying soil the settlement would be about 6 ft. in the first fifty years. And no one was willing to wait that long before putting on the pavement.

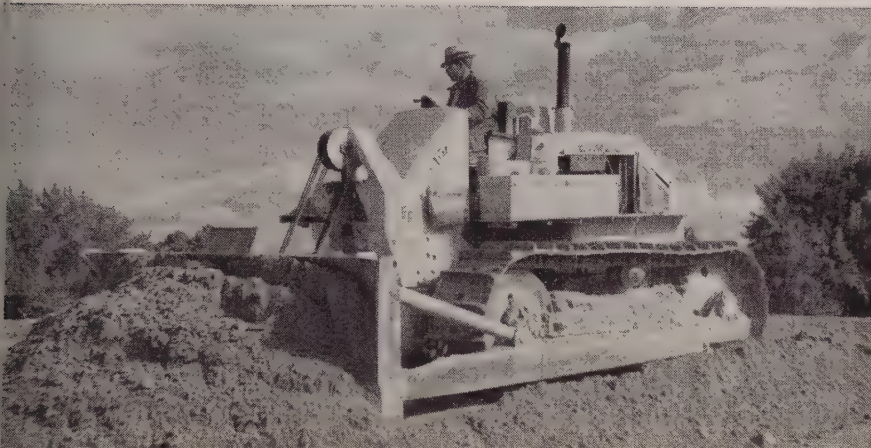
The solution to the problem involves making it easy for the water to escape and putting additional weight on the embankment by means of a surcharge of material. In this way, 90% of the settlement will take place in the first year.

The drawing which accompanies this article shows the design which was worked out. The embankment is underlain by a forest of vertical sand drains. The sand drains are spaced 10 to 14 ft. center-to-center and are 16 in. in diameter and 35 to 70 ft. deep. As the embankment grows and the weight on the soil increases, the water will rise in the vertical sand drains and be carried to the sides by transverse drainage ditches. Where the embankment will be greater than 20 ft. high a 2½-ft. blanket of pervious material was first laid down to speed the flow of water out of the embankment area. The next layer of material, zone 2, is specified as a granular material with a plastic index not greater than 10 and with no boulders larger than 3 ft. Zone 3 must have a plastic index of less than 6, with 100% passing a 3-in. screen and not more than 10% passing a No. 200 screen. The thickness of zone 3 varies with the estimated amount of settlement at a given location. Zone 4, the surcharge layer is specified the same as zone 2 and will be removed after one year when the settlement is almost complete.

The maximum height of the fin-



SCHEMATIC DIAGRAM OF SAND-DRAIN EMBANKMENT



ON THE FILL material is spread by two tractors with dozers: an IH TD 24 and an Eimco model 106 shown here. Front location gives operator good visibility, an asset in tight spots.



HANDYMAN on project is this Michigan loader. One of its jobs is removing oversize material from zone 3 by means of heavy steel teeth spaced along leading edge of bucket.

ished embankment will be 31 ft., but with the surcharge still in place the height will go as high as 40 ft. Width of the embankment from shoulder to shoulder in the 8-lane sections is 164 ft.

In order to keep track of the pore pressures in the underlying

soils, piezometers are placed along the length of the embankment every 200 ft. in groups of 3, taking the pressures of depths from 30 to 45 ft. Pore pressures are checked daily to see that they do not get too high in order to eliminate the possibility of heaving ground in

areas adjacent to the embankment. Such an occurrence would bring a flood of damage claims against the State from home owners along the right-of-way.

In order to keep close track of the movement of the fill and the consolidation of the underlying materials, settlement platforms are spaced along the embankment. The usual settlement platform consists of a steel plate placed on the ground before the filling operation starts and a vertical rod which is extended as the fill rises. In order to get away from this type of device with the interference the vertical rod causes to the contractors' operations, the engineers called for a settlement platform which operates on a simple hydraulic principle. A vertical pipe is set inside the embankment and is connected by a plastic tube to a calibrated vertical pipe mounted in a protective box at the side of the embankment. A fluid is introduced into the tubing and the settlement of the fill is marked by watching the level of the fluid in the calibrated tube. On this project an anti-freeze has been added to the fluid so that the measurements can be taken throughout the winter months.

Construction operations

The job was awarded in November of 1958 to the Gibbons & Reed Construction Co. on their low bid of \$1,600,000. Principal quantities include 1,850,000 cu. yd. of borrow, 280,000 lin. ft. of vertical sand drains, 43,000 sq. ft. of sheet piling, and 145,000 cu. yd. of pervious fill.

Zone 2, described above, forms



WATER TRUCK is an 8,000-gal. tank pulled by a Euclid truck. Contents can be emptied in 12 minutes. Front side spray takes care of hard-to-reach areas like side slopes.



COMPACTION of 8,000 cu. yd. per day is handled by this Buffalo-Springfield Kompactor. One of its big advantages is its speed, which enables it to work without getting in way of haulers.

the bulk of the embankment. Gibbons & Reed bid 65¢ per cu. yd. on this material.

The 43,000 sq. ft. of sheet piling were driven along the embankment at one critical location in order to protect nearby buildings from the possibility of heaving ground or uneven settlement.

The length of the Gibbons & Reed contract is 2.424 mi. One interesting feature is that the embankment passes directly in front of the contractor's home office and in fact cuts through part of his equipment yard. ("We had to get this job; we couldn't have a competitor's equipment running around our office.")

Borrow pit and loading

In the length of the job six streets have been left open for local traffic. At North Temple (US40) a traffic signal has been installed, synchronized with adjoining traffic signals. At two other locations flagmen keep traffic under control.

At present the material is coming from a State owned borrow pit

about 2 mi. from the north end of the job. The contractor pays the State 2¢ a yd. royalties for the use of the pit. Unlike the original ground, the embankment material is almost ideal and the pit is easy to work. So far no processing other than occasional use of a bar grizzly is needed. Four new Series H Caterpillar D8 tractors with heavy Udozers (8-part reeving is needed to lift them) feed a Kolman loader with a 5-ft. wide belt. A large mirror is used to enable the truck drivers to watch the signals of the loader operator.

Hauling equipment

So far the loader has operated flawlessly with no down-time. One modification made by the contractor was the addition of an extra operator's platform so that the operator can stand on either side of the belt. It is easier for him to signal the truck driver if he always stands on the side of the belt nearest the truck cab.

Hauling is done by 16 truck-trailer, bottom-dump rigs. Gibbons

& Reed owns 10 of them, 20-yd. Cook Bros. units pulled by International Harvester 200 tractors. Each of the two dump gates on the Cook Bros. trucks has two rams which give positive control on both opening and closing. In addition, the gates lift out of the way and keep clear of the material when it is dumped.

The contractor is working a 9 hr. shift, 5 days a week, with an extra shift per week put in by one man on preventive maintenance of the belt loader. Average daily output recently has been 8,000 cu. yd.

Specified compaction

Specifications require 95% of modified Proctor for compaction, which is quite easy for the contractor to meet because of the quality of the material. It contains 3 or 4% water content in the pit and needs only to be brought up to 6 or 8 in the fill for optimum moisture content. Water is supplied from an 8,000-gal. water tank mounted on a Euclid truck. The water truck includes a front-mounted spray which shoots to the side to take care of the side slope of the embankment. Trucks are managed to provide as much compaction as possible and the only piece of compaction equipment necessary in addition to the trucks is a Buffalo-Springfield Kompactor.

Spreading the material on the fill are an International Harvester TD24 tractor and a new Eimco Model 106 tractor.

Weight becomes critical

At this writing about 35% of the embankment has been placed. Only once so far has a section of the embankment been closed by the resident engineer because of high pore pressures indicated by the piezometers. But it is expected that this will become more frequent from here on out as the embankment reaches critical weights.

A nearby contract with similar specifications has also recently been let by the Utah Road Commission. W. W. Clyde was low bidder at \$2,558,200. This contractor is just starting and the contractor is presently engaged in driving hollow piles for sand drains.

Personnel

For the Utah State Road Commission Ed Kennelly is resident engineer. Jerry Warburton is chief of party, John McDonald is instrument man, and Dave Harman is

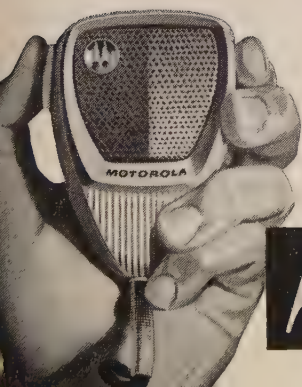


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chief inspector. For Gibbons & Reed, Lee Bryner is superintendent, assisted by Ike Beaudoin and Grant Collette. Pit and loader foreman is Paul Jolley.

Elmo R. Morgan is Director of Highways for the State of Utah. R. W. Griffin is assistant director and Joseph Q. Adair is assistant construction engineer.

The origin of sand drains

In 1937 Western Construction published the first complete article on this method by Jim Porter, who developed the procedure. The conclusions presented in that article are outlined.

THE firm of Porter, Urquhart, McCreary & O'Brien was called in by the Utah State Road Commission to aid in the solution of the difficult foundation problem described in the article. This selection was obvious since the senior partner of the firm is none other than the well known Jim Porter who might be referred to as the father of vertical sand drains. At the time he conducted the original experiments, in laboratory and field, he was with the California Division of Highways, having the title of Associate Physical Testing Engineer.

WESTERN CONSTRUCTION has considerable pride in the fact that it presented the first comprehensive review of this important development in highway engineering through an article written by Porter and appearing in our issue of February 1937. This date would indicate that vertical sand drains, and their use in solving peculiar highway problems, have been known for more than 20 years. Since *WESTERN CONSTRUCTION* carried the original information on this subject, it is logical to repeat some of the ideas presented by Jim Porter in his original article.

The original article, following a rather extended review of the general problems of highway fills on soft foundations, describes one of the causes of highway slipouts in the following terms.

"Lateral movement of a saturated foundation soil when the fill load produces a horizontal component greater than the shearing strength. Displacement of marsh mud during fill construction is an example of this type. Movement occurs when the hydrodynamic pressure is greater than the shearing strength of the supporting ground. Failure may, however, be delayed until all of the supporting strata below the

fill reaches a low shearing strength from saturation."

Based on field observations Porter developed a theory indicating that the time required for the consolidation of material is proportioned to the square of the depth of the layer. This suggested the possibility of greatly reducing the length of normal settlement for deep mud deposits by the construction of vertical drains, which would permit the horizontal flow to the drains and reduce the distance the water would otherwise travel through impervious material before elimination.

Conclusions resulting from a laboratory experiment and stated in this significant article were:

1. Substrata drainage is necessary to relieve hydrodynamic pressure and stabilize impermeable saturated ground.

2. Theoretical advantages of vertical drains in connection with fill construction over deep marsh land have been confirmed by experiment. Construction now under way should determine the practicability of a broader application of this type of treatment and the economic limitations.

3. It is possible, with proper spacing of the drains, to obtain practically all of the settlement during six months to one year's time following construction.

4. Water usually travels through soil deposits more readily horizontally (with the bedding) than vertically. In addition to the increased rate of movement resulting from a decrease in the distance the water must travel through impervious material to be eliminated, the drains may accelerate the rate of settlement by providing an outlet of horizontal movement of excess moisture.

5. Drains, with a spacing consistent with the type of material and the desired rate of loading, readily release the excess water, relieve the hydrodynamic pressure, and thus prevent lateral displacement during fill construction. In some cases, therefore, the saving in fill yardage alone may economically justify the added expense of this type of construction.

Procedure announced for scheduling highway funds

A PROCEDURE has been announced for the scheduling of Federal highway funds to assure prompt reimbursement to the states and to maintain the Federal aid highway program on a pay-as-you-go basis. The procedure provides, according to Secretary of Commerce Mueller:

The Federal Government pays 90% of the cost of the Interstate Highway program. This program will continue without interruption. We are exercising our legal authority and public duty to make sure that when the vouchers are presented by the states for payment there will be money in the Highway Trust Fund to pay the states.

Memorandum released

The Secretary released a circular memorandum implementing his announcement from Ellis L. Armstrong, Commissioner of the Bureau of Public Roads, to the Bureau's regional and division engineers.

Under the Federal-Aid Highway Act of 1959, it is planned, with scheduling of reimbursement to the states, to apportion approximately \$1.8 billion of Federal funds for the National System of Interstate and Defense Highways for the fiscal year 1961 and \$2 billion for fiscal 1962.

Scheduling must be orderly

However, in utilizing these apportionments it will be necessary for the Bureau and the states to provide immediately for an orderly scheduling of obligations and new contracts financed from the 1961 apportionment and from remaining balances of earlier apportionments to assure that the estimated revenues in the Highway Trust Fund will be sufficient to meet the anticipated reimbursement requirements of the states during the current fiscal year and the years immediately ahead.

Under the governing legislation the states initially made expenditures to advance the Federal-aid highway program and are subsequently reimbursed for the Federal share from the Highway Trust Fund. In addition to contributing 90% of the cost of the Interstate System, the Federal Government pays 50% of the cost of the other Federally aided highway systems.

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Equipment operators' school is now run by the industry



By
DENNIS E. SHEEHY
General Manager
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Weiser, Idaho

THE Western construction industry is at least one gold star up on the nation at large. We are the only heavy equipment operators' school in the United States that is owned and operated by the industry. Maybe it's the only such school in the world.

Our location is Weiser, Idaho, 70 mi. northwest of Boise. If you are still lost, we are on the crossroad of two main U.S. highways, 30 and 95—incidentally at the headgate of Hells Canyon.

We teach the operation of earth-moving equipment simply by letting the students run the machines themselves, under the supervision of instructors.

This is the only legitimate way to teach heavy-equipment operation. It is also the most expensive way, as you can figure for yourself, from the purchase price or the hourly rental rates on heavy equipment.

Our instructors—one for each four men, have two main qualifications. They have long experience, as operators or contractors. And they are trained, by us, in the art of teaching what they know.

Work on a real job

We do still better than that. You might suppose that a school like this one would own or rent a patch of ground on which to practice pushing dirt back and forth.

Not so. We train our men on real construction jobs. They build canals, jetties, roads, highways, and sanitary landfills, and they do excavations and land leveling. Thus they learn all the skills an operator needs by actually doing them on the job.

At present we are building 4.5 mi. of highway, known as Olds Ferry, which will create a new water-level route through this area and connect two major routes over

Nearing its third anniversary the school has graduated 722 operators with both class instruction and extensive field practice with machines doing actual construction work.

a proposed interstate bridge. And we are maintaining a sanitary landfill for Weiser and Washington County, at the same time expanding the dump area for future needs.

"But," you ask, "why don't the local contractors complain about this competition?"

They don't complain because we do only such jobs as could not possibly be financed and let to a contractor. These jobs are assigned to us by a community committee consisting of the City Council, Chamber of Commerce, County Commissioners, School Board, the Highway District, and our school.

Maybe you think I sound like any eager beaver talking up his own pitch. No, I just work here, as the general manager. I speak for the contractors and equipment distributors who bought stock to finance the school, and whose elected directors set up our program.

The equipment manufacturers also have seen the need for trained operators and mechanics, and many of them have placed equipment at our disposal on a loan basis.

Such manufacturers as Interna-

tional Harvester, Oliver, Le Tourneau-Westinghouse, Galion, Austin-Western, P. & H. Harnischfeger, Link-Belt Speeder, and Barber-Greene, are participating at present. Without their good will and assistance, our task would be practically impossible.

We do not believe that equipment operation can be learned from books or lessons—home study or anywhere else. Conversely, we know that the hands-on-controls experience which we give in such full measure, is not enough. To be effective, the training must combine both knowledge and experience.

That is why we give each student 10 or 80 hours (depending on the course he chooses) of academic or classroom training—lectures, textbook lessons, equipment operating manuals, pictures, diagrams, and so on. This classroom phase is a diligent collection of the best recorded experience of successful men in construction, and in equipment design.

Beginners with a sound background

Our students do not float on pink clouds into high-pay jobs, or expect to. Their experience is limited, and they must work their way in. But with sound knowledge gained here with us, they can go farther toward proficiency in months than old-timers did in years.

Our graduates meet some resistance from some older supervisors and operators who "got theirs the hard way." Some of them banter our men as "school boy wonders." We understand how the old-timers feel and we respect their experience.

We are in a transition from apprentice, or pick-up training, to



ADMINISTRATION and dormitory building located on the campus of Weiser High School. In the rear of this building are shops where field mechanics are trained, and gravel pads where all equipment is washed and cleaned each month by the graduating students.

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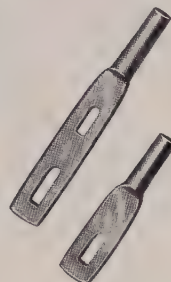


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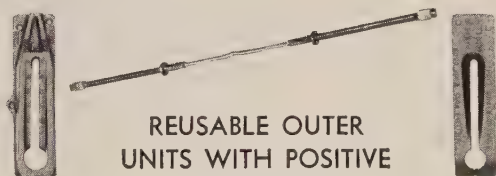
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training based on correct practices as developed through time by the best talent in the industry—in the operation, service, and maintenance of equipment. These practices are transmitted to our students, and that is what their employers may expect of them.

The astronomical cost of equipment demands it must run with minimum down-time, for the maximum life time. We know that a contractor cannot afford to place any but the best-trained hand on the seat of a \$40,000 or \$50,000 piece of equipment. In the old



P & H Harnischfeger dragline operated by a student excavating for sanitary landfill. This is one of three combination machines.

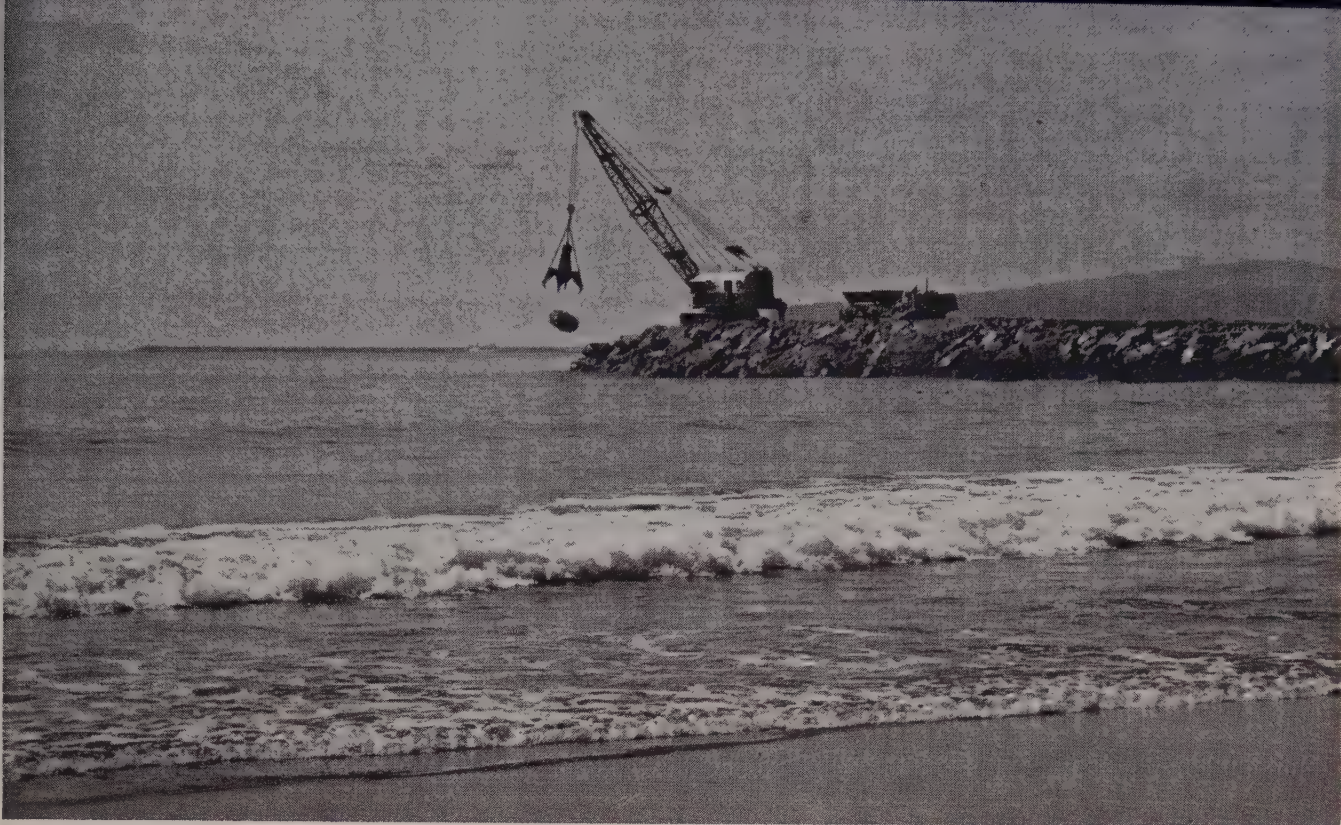
days it was possible, but not now. Furthermore, a man who is willing to pay his hard-earned money at our school to grind off the rough edges, certainly deserves a chance to prove himself on a job.

Personal responsibility instilled

We offer another service to the industry, which we think has value equal to the technical training. Our students are indoctrinated with an attitude of personal responsibility—a rare and valuable thing these days. We hammer away on this theme, from the first day to the last, and send most of our men away with the conviction that their own success depends on the success of their employers.

Our school will be three years old next May 6. We have graduated 722 men from all the 50 states and 6 foreign countries. We were founded by Gilbert Shaw, with finances furnished by the industry, as an institution allied with his original school of heavy equipment operation at Charlotte, North Carolina. Mr. Shaw's foresight was correct and his initiative commendable.

There is now no connection between the two schools. Our Western school stands alone as a facility of the construction industry, based on resident training, on real construction jobs.



AIRBORNE rock on its way to becoming part of the breakwater.

Grapples handle 20-ton rocks on breakwater project

GRAPPLE picks up rock from trailer. (See other picture on cover.)

MORE THAN 800,000 tons of rock are being placed in a 7,000-ft. L-shaped breakwater at Half Moon Bay, Calif., on a Corps of Engineers small harbor project. The \$4,500,000 contract is held by Healy-Tibbitts Construction Co. and Granite Construction Co. in a joint venture operating as Healy-Granite.

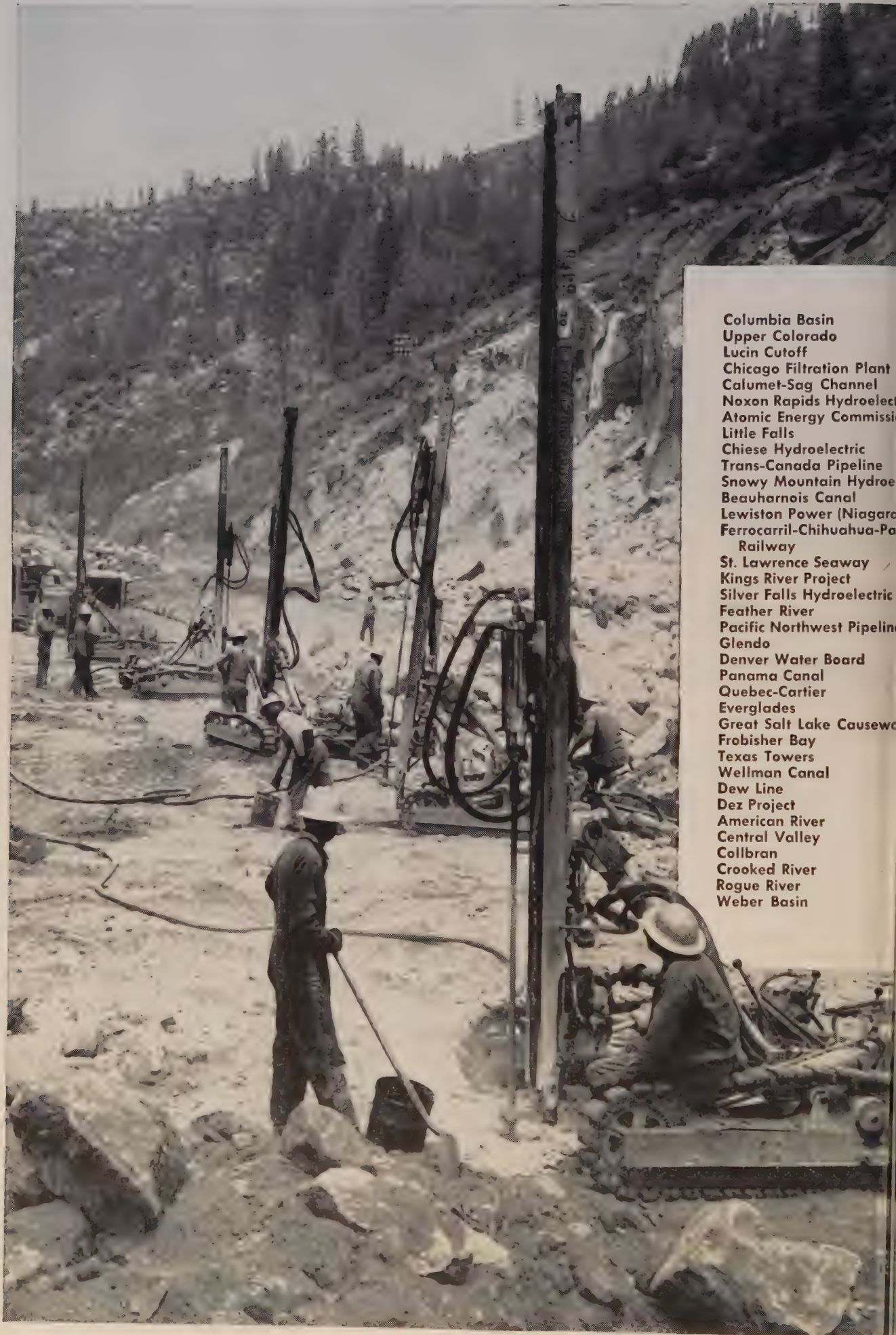
Building out from the beach, the contractor is using a Lima 1201 3½-yd. crawler-mounted crane, equipped with Owens 90 RA grapples rated at 12-17 ton capacity. Several sizes of rock are used in the embankment zones. Weights of individual stones range from 600 lb. to 22 tons; the latter are hauled to the job one at a time on low-bed trailers, and placed with the rock grapples.

Stone is a hard sandstone stripped from a limestone quarry at Danville, Calif., 44 miles away. Granite construction forces handle the quarrying, while Healy-Tibbitts crews do the actual breakwater construction. Hauling is done on a sub-contract by Wallace, Kinney & Lochridge. The trucking firm built 20 special side-dump trailers to haul smaller stones. These trailers were moved out on the breakwater with a D7 crawler; the side-dump body detached and picked up with slings and dumped.

For deep water construction, the contractor will build a sheet pile dock and turnaround 1,100 ft. out from shore and load rock on two steel barges for placement with a derrick barge.

For the contractor, O. H. Tucker is project manager; Tom Collins, project engineer; and W. J. Dougherty, office manager. Corps of Engineers project engineer is Col. Knute Hansston, and Stillwell Wolf is chief inspector.





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 Chiese Hydroelectric
 Trans-Canada Pipeline
 Snowy Mountain Hydroe
 Beauharnois Canal
 Lewiston Power (Niagara
 Ferrocarril-Chihuahua-Pa
 Railway
 St. Lawrence Seaway
 Kings River Project
 Silver Falls Hydroelectric
 Feather River
 Pacific Northwest Pipelin
 Glendo
 Denver Water Board
 Panama Canal
 Quebec-Cartier
 Everglades
 Great Salt Lake Causewa
 Frobisher Bay
 Texas Towers
 Wellman Canal
 Dew Line
 Dez Project
 American River
 Central Valley
 Collbran
 Crooked River
 Rogue River
 Weber Basin

Keeping the projects of progress on schedule

-GARDNER-DENVER



A MAN ON THE GO



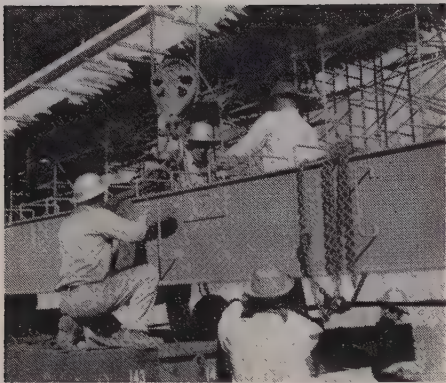
Gardner-Denver construction equipment specialists know there's no substitute for keeping up to date on equipment performance firsthand—in the field. At Gardner-Denver there's no substitute for men—our 100-year philosophy of growth.

Gardner-Denver — the No. 1 choice in compressors . . . rock drills . . . and air tools

EQUIPMENT TODAY FOR THE CHALLENGE OF TOMORROW
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Seattle, Wash.; Wallace, Idaho; El Paso, Texas

. . . for more details, write No. 37 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section



RIGGERS set padded chocker around pole.

Candlepower for Candlestick Park

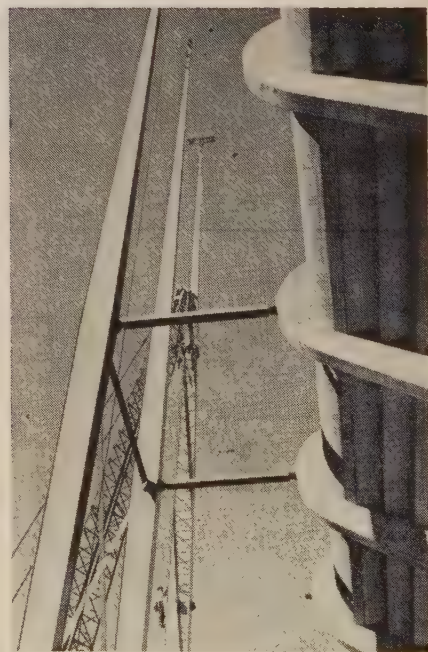
Erection of the 19 light towers and their tiers of cages holding from 150 to 212 flood lights makes Giants home stadium one of the best lighted in the nation. Welded steel poles weigh 16 tons, are 18 stories tall, and are designed for 12 ft. of sway.



TWO CRANES of Bigge Crane & Rigging Co. used to hoist 197-ft. welded steel pole into position. Aluminum T used to raise light cages.



TAPERED steel pole, one of 19 built by Weld-Rite Co., Oakland, for Candlestick Park lighting, is hauled to site by truck-trailer. Long poles were shipped on 5 flatcars.

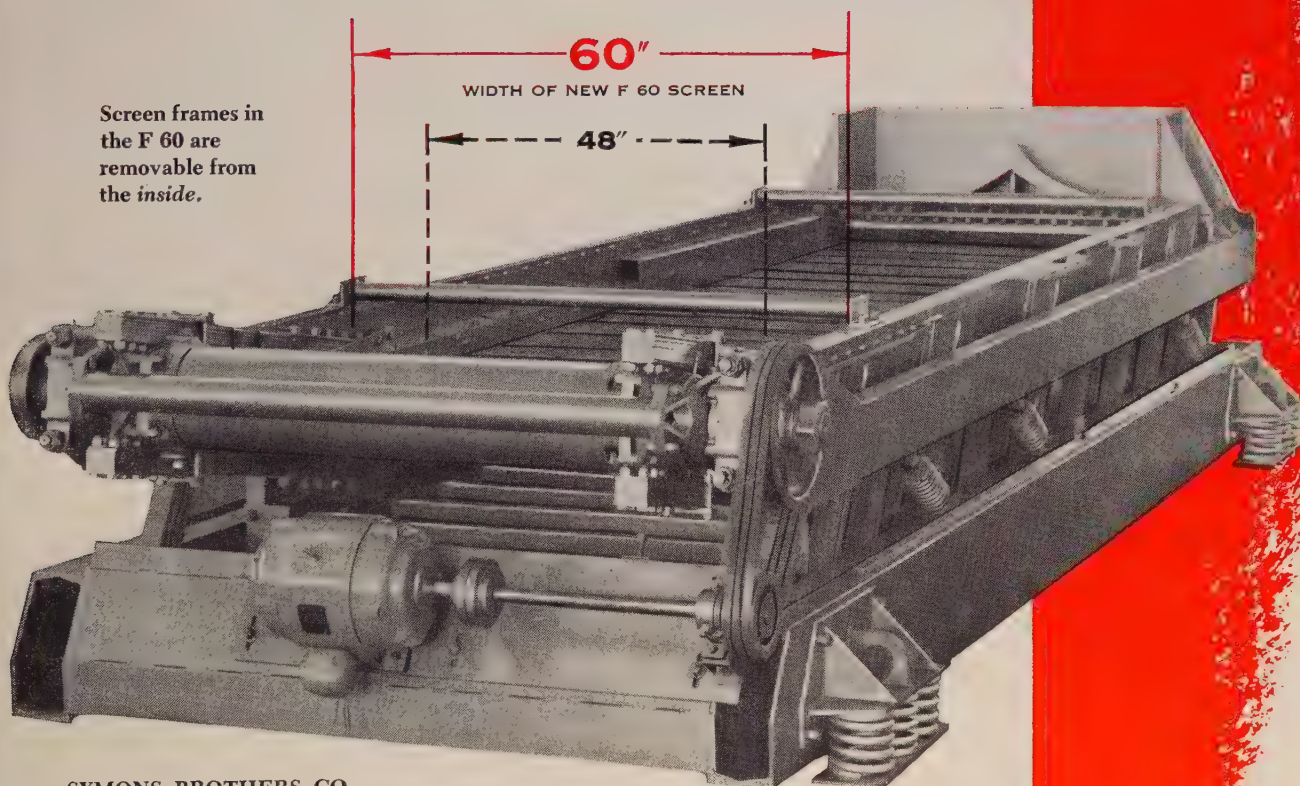


SIXTEEN-ton pole held in place by crane as connector climbs up to attach struts.

SYMONS F 60 SCREEN

has **25%** more screening area

The completely new F 60 is a rugged brute. Screen width has been increased to 60 inches and shaft assembly load rating has been upped 50%. Due to a more favorable pulling angle, there's less stress on drive springs. This heavier, tougher F 60 delivers more screened materials, even when the going's rough.



Screen frames in the F 60 are removable from the inside.

SYMONS BROTHERS CO.
P.O. Box 770, 11551 Hart St.,
North Hollywood, California
Telephone TRIangle 7-1396

SYMONS SCREENS

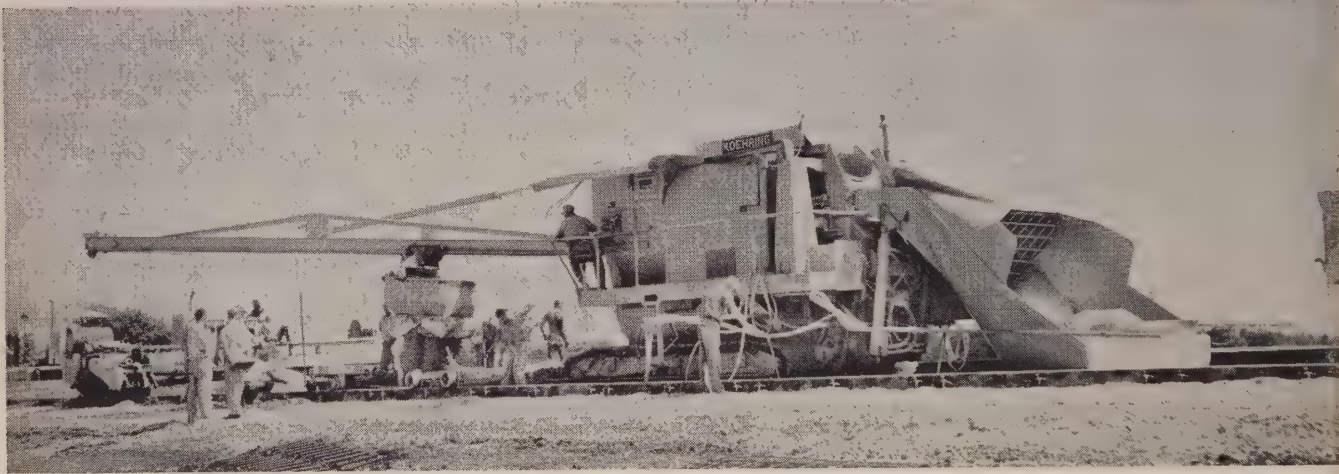
... for more details, write No. 38 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

Equipment ideas for the 1960 season

During the last year manufacturers of construction equipment produced machines of ever-increasing size, efficiency, and variety. These units represent potential tools for Western contractors as they enter the new construction season.

Every issue during 1959 included short reviews of these machines as they were

announced by the manufacturers to WESTERN CONSTRUCTION. At the close of the year we have reviewed this extensive twelve-issue equipment-report and have selected some which appear to be of unusual interest in providing features for getting jobs done faster and cheaper during the 1960 construction season.



Tri batch paver of Koehring speeds mixing time by 40%

Without disturbing plant and procedure in concrete paving operations Koehring Division of Koehring Co., has speeded up the mixing operation by more than 40%, with the introduction of a triple-drum mixer. For many years the dual-drum paver has been standard for most highway and airport work. During these years contractors and manufacturers of other equipment have standardized on units built around this type of 34E machine. Any effort to speed concrete paving operations by increasing the size of the mobile paver would have upset any contractor's batching and transportation procedure. On the other hand, any machine which maintained these units in their accepted size and speeded the mixing operation would be a major step forward in concrete paving work. This Koehring has done by adding a third drum which cuts the cycle time to 25 sec. as compared to 41.5 sec. for the twin-drum machine. These figures are based on the standard 60-sec. mixing time specification.

The new machine was introduced to the concrete paving industry last fall, both at the factory and in a field demonstration.

In addition to increasing output a major design feature is the control system which is handled easily by a single operator. A modern electronic batch meter makes the operation even simpler than slower mixers. The controls handle all mixing functions including the raising of the skip (safety feature provided) which leaves the operator free to take care of the movement and dumping of the bucket as well as the movement of the machine.

The skip control man must activate a release button indicating that the skip is clear, before it is raised automatically. Both this control man and the paver operator have a button available which freezes the skip in any position. Further, the electronic controls are designed to shut down all operations behind the location of trouble in the mixer, avoiding the overloading of any one of the mixing compartments. Lastly, the control will not allow final discharge until the bucket is in proper position.

Length of the boom is 37½ ft. which enables the operator to place concrete on the far side of a 30-ft. slab. Recognizing the increasing depth of airport slabs the new paver is designed for a 30-in. clearance between bottom of the bucket and sub grade.

Width of the machine is 9 ft., 10 in. between the outside edges of the crawlers, and weight is 70,000 lb. It has a height of 12 ft. 9 in. and is powered by a General Motors 6-7 diesel.

At the time of the demonstration, the U. S. Bureau

of Public Roads had observers checking the mixer and its operations. One of their most important observations related to the question of mixing time required by state highway specifications, and the recognition of the time required for transfer from one drum to the other—whether it is mixing time or lost time.

Their observations and conclusions indicated that mixing proceeds during the transfer period and there would be no logical reason why such transfer time should not be allowed in the 60 sec. total requirement. In the Tribatch mixer, 9 sec. are required to complete each transfer. This total of 18 sec. would make the total time in the mixer 78 sec. as compared to the 60 sec. mixing time. If any specification did not allow these 18 sec. to be included in the required mixing time then the triple-drum paver would add about 25 cents to the cost of each cubic yard of concrete, or about \$2,000 per mile on the typical Interstate construction. On the other hand, for those states giving proper allowance to the transfer time, and for those states that will make such allowance in the future, the Tribatch paver will be permitted to accomplish its design purpose and increase the output of a 34E paver by more than 40%.

The observers from the Bureau of Public Roads inspected the design of the mixer blades, chutes and drums, as well as the overall operation of a working model. From this inspection they concluded that no deduction should be made for the transfer period in the total mixing time. The addition of the 18 sec. would detract from the production advantages that would have been gained through Koehring's development of the triple-drum paver.

... Write No. 153

Loader has 2½-yd. capacity

A 4-wheel drive tractor shovel with a 9,000-lb. carrying capacity and breakout force of 23,500 lb. is announced by J. I. Case Co. Called the W-12 Terra-load'r, the new unit is the largest in Case's line of tractor shovels. Powered by 120-hp. Case diesel engine.

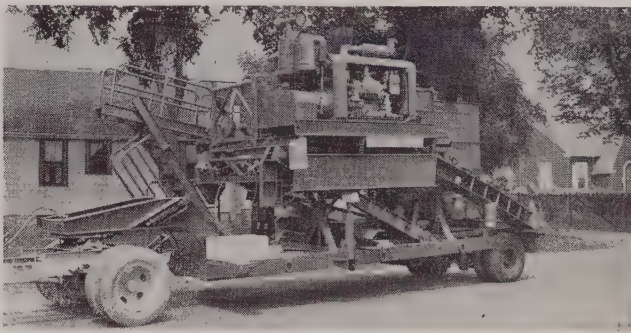


It has a torque converter and constant mesh transmission providing speeds up from 23 mph. in either direction through three speed ranges. Other features include power transfer differential for all 4 drive wheels, power steering and power brakes. Hydraulic system of the W-12 uses large pumps to provide extra fast lift (7½ sec.) and dump (4½ sec.). The machine also features forward pivoted lift arms which give greater stability although maintaining a full 9-ft. dump clearance. The machine has a wide tread of 77 in. for lateral stability. Loader bucket is easily interchangeable with a dozing blade, brush rake and V-type or angling snowplow. Literature available.

... Write No. 154

Stabilization mixing plant travels on own trailer

A stabilization mixing plant which travels on its own trailer chassis at normal speeds and which lifts itself hydraulically to operating position in 90 sec. is being offered by Barber-Greene Co. In the photo the Model 828 is mounted on a standard lowboy trailer with all plant equipment within 8-ft. highway clearance limits which eliminates any need for permits. The plant has a capacity of over 400 tons per



hr. depending on type of materials being mixed. Mobile mounting is provided by standard 10-ton gooseneck trailer with a fifth-wheel hitch. Arriving at the job site the mixing pugmill is hoisted into operating position hydraulically and is supported by heavy-duty structural arms. Locking pins are inserted after full height has been reached and no external guy wires or other bracing are necessary. The operators platform is reached by an all-welded, self folding steel stairway with double handrails. In operating position there is a 9-ft. 2-in. truck clearance beneath the mixer's double discharge gates, making a truck pit unnecessary.

Although a wide variety of aggregate handling systems can be adapted to the 828 mixer, a popular and highly portable package consists of the mixer unit, a Model PA-70 Barber-Greene portable belt conveyor, mounted on pneumatic tires and equipped with a trap feeder. Especially adaptable to single aggregate mixes this feed system may be replaced, for producing more refined mixes by a B-G standardized permanent mixer unit, a standardized, sectional Barber-Greene belt conveyor and a bulkhead and feeder or a 2, 3 or 4-bin, rubber-tire mounted, cold feed hopper, especially designed for truck charging or for charging by a front-end loader.

... Write No. 155

Self-propelled double drum

Shovel Supply Co. announces its Model SP-22, self-propelled double-drum tamping roller. Equipped with drums 5 ft. in diameter, and 6 ft. long, each drum provided with feet 9¼ in. long, the unit meets all requirements of the U.S. Corps of Engineers and the Bureau of Reclamation.

Power to each drum is supplied by General Motors Model 4-71, 125-hp. diesel engine, Allison 3-speed transmission, torque converter and heavy-duty roller chain final drive running in oil, provides speeds from 0 to 8 mph., forward and reverse. It is equipped with cleaners front and rear, hydraulic steering and powerful air brakes. Feet with removable caps are furnished

(Continued on page 84)





Thousands upon thousands of tons of rock were dumped along the base of the earthquake-made dam to form a "stilling basin." Here a Mack LVX dumper adds its load of rock to the river bed.

...sing and recrossing parts of the trapped Madison River with loads of rock fill—all in a day's work for F & S Contracting Co. and the twenty-odd Mack dumpers assigned to the job.



From the base of one of the huge rock slides these Macks worked back and forth to the river bed on a round-the-clock schedule. F & S Contracting Company of Butte, Montana, owns and operates the big trucks.

**Tremendous
trucking job is
aftermath of**

The day the mountain fell

When a devastating earthquake shook Montana mountainside into the Madison River, it created an earth-moving problem of staggering proportions. The river, trapped behind the huge rockslide, had to be quickly released to prevent disastrous floods. Heavy equipment from surrounding areas was mobilized. In a matter of hours emergency roads had been cut through to the remote quake site, and a crash clearance program was under way.

Among the first to get equipment through to the disaster area were crews from F & S Contracting Co.,

Butte, Montana, with a fleet of heavy-duty Mack dumpers. Day and night on a 24-hour-a-day basis, F & S, veteran of many tough jobs, hustled its Macks through axle-deep mud and water, up almost insurmountable grades and over jagged rock surfaces. Thousands of tons of rock were moved, and F & S reports the Mack trucks detailed to this back-breaking job took it all in stride.

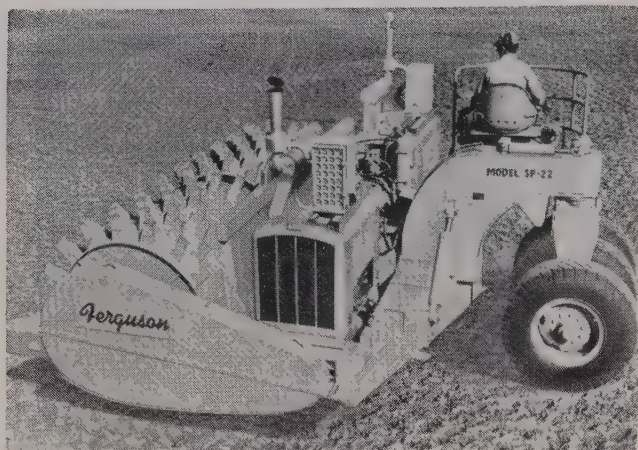
Really tough assignments like this offer indisputable proof of the matchless stamina and dependability built into every Mack vehicle. Unusual or routine, Macks can always be de-

pended on to handle the job efficiently and economically. There's a Mack branch or distributor in your area who will be glad to help you select the model designed to handle *your* important hauling jobs. Mack Trucks, Inc., Los Angeles, Denver, San Francisco, Seattle, Portland, Salt Lake City, Albuquerque.

7391

MACK
FIRST NAME FOR
TRUCKS

... for more details, write No. 39 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section



when desired. Empty weight, 51,400 lb.; with water ballast, any desired weight up to 5,500 lb. per ft. of drum length may be obtained.

Since the roller operates equally well in either direction, time and energy consumed in turning are eliminated. Field tests indicate this roller will do the work of two large tractors, two sets of conventional rollers and two operators.

... Write No. 156

Caterpillar No. 14 Grader earns its place in the West

After one full work season the Caterpillar No. 14 motor grader has earned a place for itself in equipment spreads across the West. The first motor grader to be equipped with a turbocharger the No. 14 high production capacity is utilized on jobs ranging from finished grading to terracing and pioneering. A typical owner is Grant Construction Co., of Coeur d'Alene,



Idaho, who, this past summer relied on the machine for blading crushed rock on a 11-mi. road improvement between Newman Lake and Rathrun, Idaho.

The job involved widening and resurfacing Highway 53. The grader worked 16 hr. per day, five days a week as weather permitted. It averaged one mile of 2-lane work in 2 hr. and 20 min., operating in third gear. The operator reported fuel consumption averaging 4.5 gal. per hr. In comparing the No. 14 with the Caterpillar No. 12, the equipment superintendent, Jay Grant, said it will do one-third more work than the smaller unit. The No. 14 was fitted with a push plate permitting its use for light push loading in other utility work.

... Write No. 157

Wagner compactor is rugged performer in the West

Developed in the West for tough Western conditions is the Wagner compactor-dozer, and according to job reports from many Western projects the rig looks best when the going is tougher. The photograph shows the rig at work on an A. Teichert & Sons free-way job near Davis in California. Close inspection of the photograph will show that the machine compactor wheels are built around a rubber pneumatic tire. This arrangement, a Wagner developed exclusive, eliminates practically all vibration and shock from the drive assemblies and the operator.

The machine is the only self-contained compactor on the market which contains all the following features: 4-wheel drive, 4-wheel steering, free oscillation



of both axles, air-cushioned compaction wheels, dozer blade, reversible seat with dual controls, equal speeds in either direction, demountable cab with optional air-conditioning for hot weather and heater and defroster for cold weather. Through a patented center hinge coupling all four wheels drive at all times, even in the sharpest degree of turning, and all four wheels obtain traction regardless of the terrain. Operating weight is about 50,000 lb. Over-all width is 9 ft. 6 in. and inside diameter of the turning radius is 10 ft. 2 in.

... Write No. 158

International Harvester unwraps most powerful unit

The most powerful crawler tractor ever produced by International Harvester Co., the TD-25 diesel, is now coming off the assembly line. The TD-25 is available in either a torque convertor or gear-drive version. Both are powered by International's DT-817 turbocharged engine—a 6-cylinder, 4-cycle, direct-starting engine, developing 230 net hp. at the fly-wheel at 1,500 rpm. Four speeds forward and reverse are offered by the torque convertor TD-25 which has a drawbar pull up to 70,000 lb. at .75 mph. Operating weight is 46,000 lb.

The gear drive TD-25 with an operating weight of 45,500 lb. has a 46,700-lb. drawbar pull in first gear at rated governed speed. It has eight speeds forward and reverse.

Here is a rundown of some of the major features. The track frames are a box-within-a-box construction, the strongest frames in the industry today. Large-reservoir track rollers have exclusive cartridge-type



VICTOR

for hardfacing **NI-MN RODS** *for build-up*
for attachment

Victor Ni-Manganese for Build-up is 4½% nickel, 13% manganese alloy, specifically developed for rebuilding manganese steel parts such as bucket teeth and lips; rail frogs and switches; crusher, dredge, pulverizer components. May be used as finish build-up or underbase; forms sound, slag-free welds; high deposition rate and good weldability. Deposits are austenitic with full Hadfield steel properties; non-magnetic, tough and ductile; stands roughest abuse. Made in 5/32", 3/16" and 1/4" diameters; bare, for manual application by DC, reverse polarity.

Victor Ni-Manganese for Attachment welds crack-free, is specially recommended for difficult joining applications on manganese or carbon steel castings, such as: Dipper teeth and lips; track and drive sprockets; dragline pins and links; rail crossovers, switches and frogs; rolling mill parts; crusher screens, hammers, rolls and mantles; dredge parts. Deposited metal is extremely tough, wears well, has high impact strength. It's a wonderful, low-cost substitute for "stainless" where joining rather than corrosion resistance is chief factor. Made in 1/8", 5/32", 3/16" and 1/4" diameters for manual application by AC or DC, reverse polarity.

For all your hardfacing or welding needs, call your Victor dealer. Order Victor Ni-Mn rods today.

Profitable dealerships open; inquire now!

VICTOR EQUIPMENT COMPANY

Alloy Rod & Metal Division

H-65

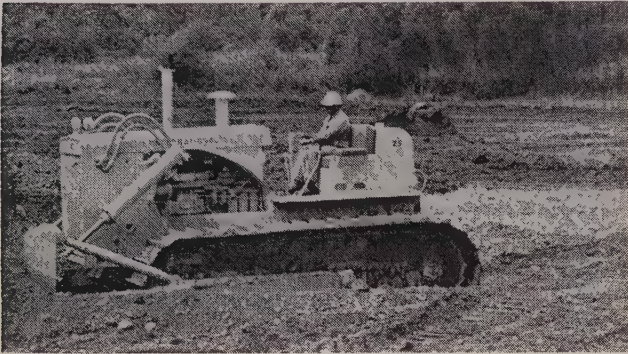
13808 E. Imperial Highway, Norwalk, California Wakita, Oklahoma

for more details, write No. 40 on Reader Service Postcard

Equipment for 1960

seals. A 3-point track suspension lengthens the life of rollers, trains, pins and bushings. The exclusive Planet-Power system permits turning with controlled power on both tracks, thus eliminating power wasting, dead-track drag in turns, and providing instant power shifting from one speed range to the next.

A 24-volt direct electric starting system activates the TD-25. The radiator has a capacity of 24 gal. with an 11.5-sq. ft. frontal area, mounted on four rubber pads.



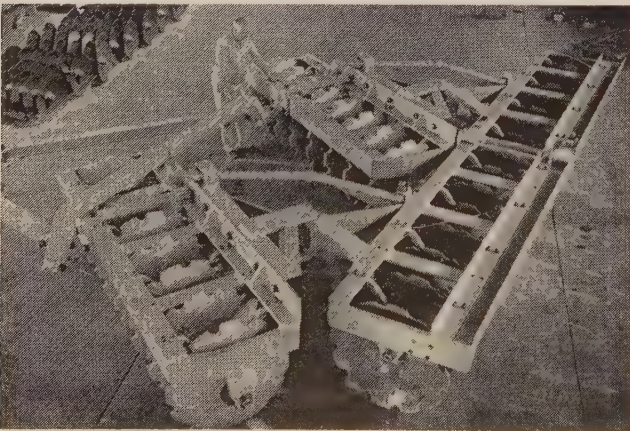
The 1-piece radiator has a gear-driven fan and gear-driven externally-mounted water pump and an oil cooler. Additional engine cooling is accomplished through spraying the underside of the pistons with a gallon and one half a minute when the engine is running.

With standard 24-in. track shoes the crawler is 104 in. wide. Its overall length is 196 in. Area of ground contact with 24-in. shoes is 5,652 sq. in. A complete line of control units, hydraulic or cable controlled blades, and pusher plates is available.

... Write No. 159

Giant disk gang for construction

A 25,000-lb. gang disk tilling machine for pulverizing and mixing dirt fill is marketed by **Towner Mfg. Co.** Serrated disks of 32 or 36-in. diameter are mounted in heavy steel frames on 12 or 16-in. spacing. Op-



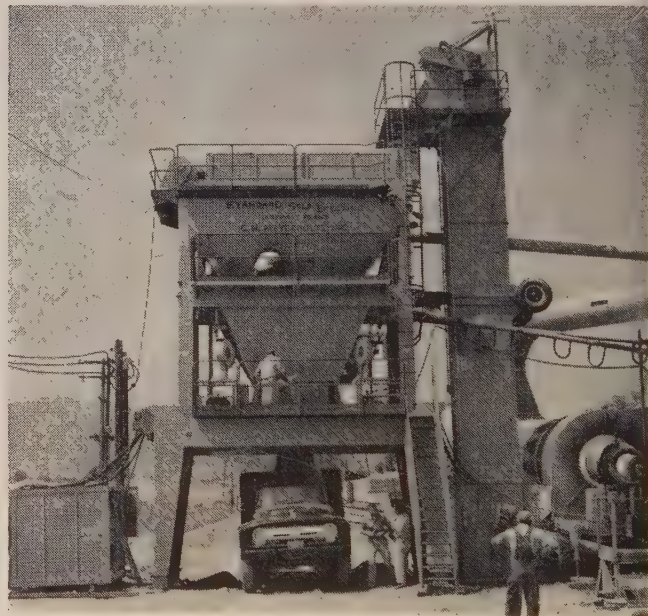
erating angle between gangs up to 60 deg. is either hydraulic or cable controlled from the tractor. Heavy-duty trash bars between blades are standard equipment and optional scrapers are available. Literature available.

... Write No. 160

How portability pays off in an asphalt plant

Here is a good example of how portability of equipment pays off in construction operations in the rugged West. C. H. Meyerholtz, Inc., general engineering contractor of Lancaster, Calif., took delivery of a **Standard Steel Corp.** Model SE 5,000-lb. batch capacity asphalt plant in May of 1959. The completely portable plant was set up at Beaumont, Calif. where it was used to produce hot-mix for use in paving access roads and the shoulders on a new section of freeway in Riverside County. Early in September when the job was finished Meyerholtz disassembled the plant and transported it some 460 mi. to Soda Springs, Calif. in Donner Pass where it was used to produce material to pave 6 mi. of access roads and shoulders to the new Donner Pass Freeway. When this job was completed in November, Meyerholtz again disassembled the plant and trucked it back to his Lancaster headquarters.

Getting in and out of the Soda Springs job site required moving the plant through a lot of mountainous



country. It was no problem with Model SE. All assembly and disassembly operations were made by the contractor himself with the push-button erecting mechanism of the plant. No crane or other hoisting devices were required.

Each section of the plant is mounted on its own wheels and axles. Sections are rolled into place and automatically raised into operating position with exclusive push-button erection mechanism. The Model SE plants are made in 4,000- 5,000- and 6,000-lb. batch capacities. Features of the plant include a long-life dryer with saw-tooth lifters; Simplex push-button batching control; high efficiency dual dust collector; positive control of liquid asphalt; independent direct drives throughout; Standard-Symons extra large vibrating screen; and complete accessibility due to the simple, clean design.

Contractor Meyerholtz reports he is getting production of over 200 tons per hour with ease.

... Write No. 161

construction and utility firms use these **POWER DIGGERS** and **DERRICKS** in 100 different ways

the big



...leader in
earth-boring
equipment

The men in the field like Highway best . . . for construction . . . for maintenance . . . for all kinds of tough digging jobs. So do the men who check costs. They know that Highway equipment reduces man-hours per job to a minimum. In any soil, quality-built Highway earth-boring machines—available in both truck and skid-mounted (with integral power plant) models—work faster and easier and are more dependable.

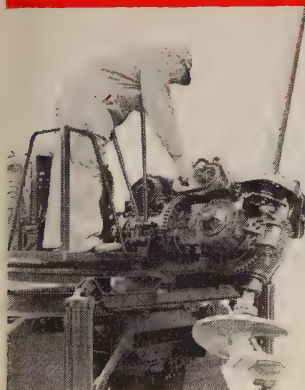
TELESCOPING DERRICK

Exclusive with Highway! Easily handles poles up to 75' in length and 4,500 lbs. in weight. Extends to 29'-8" from the ground. Operates integrally with Highway earth-boring machines. (At left, shown mounted on an HCA model. The HCA digs holes from 9" to 36" in diameter and up to 10' deep.) Telescoping derrick available as optional equipment for Models HC, HCA and HCAMS Highway earth-boring machines only.



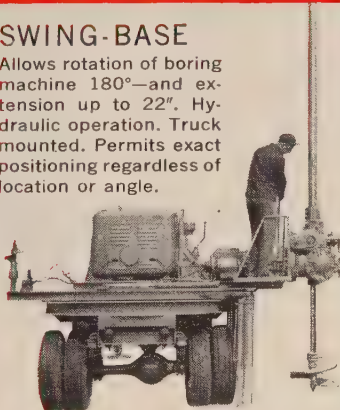
POWER LEVELING

An easy turn of the power-leveling mechanism puts your rack bar and derrick in the exact position desired. Makes straight-down digging easy regardless of terrain or truck position.



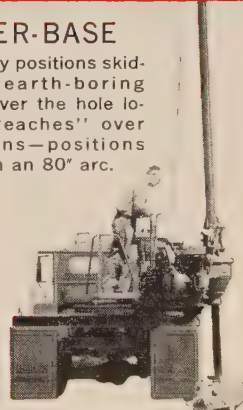
SWING-BASE

Allows rotation of boring machine 180°—and extension up to 22". Hydraulic operation. Truck mounted. Permits exact positioning regardless of location or angle.



SPOTTER-BASE

Hydraulically positions skid-mounted earth-boring machines over the hole location. "Reaches" over obstructions—positions anywhere in an 80° arc.



UTILITY DIVISION HIGHWAY TRAILER COMPANY

Headquarters: EDGERTON, WISCONSIN

Executive Offices: 250 Park Avenue, New York 17, N. Y. Executive Sales Office: 221 N. LaSalle Street, Chicago 1, Ill.
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Manufacturers of: Commercial Trailers • Dry-Bulk Haulers • Cargo Containers—Land, Sea and Air • Public Utility Bodies • Earth-Boring Machines • Pole and Cable Reel Trailers • Winches • Power Take-offs • Service Accessories

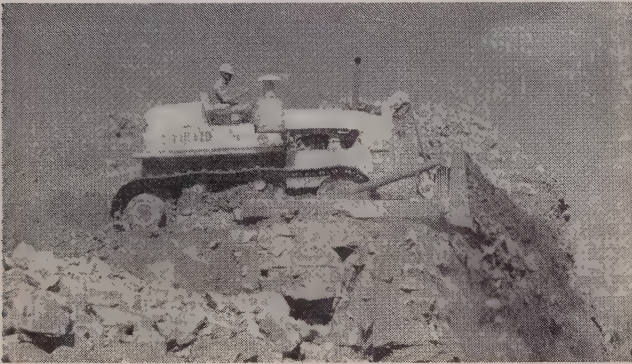
INVESTIGATE HIGHWAY'S NEW LEASING PLAN

... for more details, write No. 41 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section



Euclid's C-6 crawler is a completely new unit

Euclid Division of General Motors Corp., has just gone into full-scale production on the new C-6 crawler tractor, described as the most versatile crawler in its class. Completely new in its design concept, the C-6 has 211 net hp. and a torque converter and semi-automatic transmission that eliminates the master clutch. Changes from one of the three forward speed ranges to another, and from forward to reverse and back again are made under full engine power. Smooth, positive track con-



trol is provided by a unique system of common braking and steering that requires no adjustment of steering clutches or brakes.

Rear-mounted cooling system results in cleaner operation and permits close mounting of front-end attachments—does not restrict size of placement of front power control unit as is the case of conventional tractor design. Operator visibility is exceptionally good because the nose guard does not have to accommodate the fan and radiator. Front equalizer bar of advanced design gives both vertical and lateral support without the usual cross braces, and constant track alignment is maintained under all working conditions. Track roller frames are pivot-mounted on the main frame, eliminating all tractor weight from final drives.

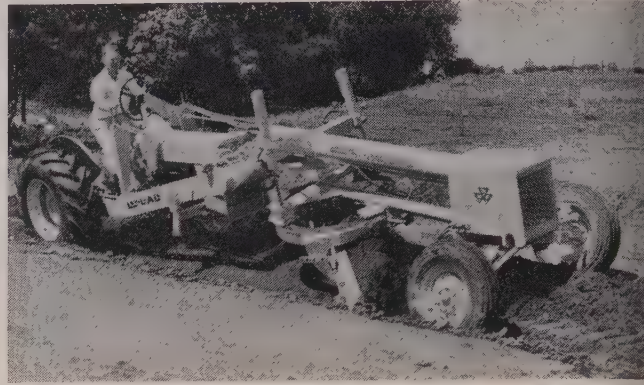
Easy accessibility for serving is an important design feature. There are fewer lube points than in other crawlers of comparable size. Standard track shoes are 22 in. wide, track gauge is 78 in. and total ground contact area is 5,069 sq. in. Over-all dimensions of the C-6 are 178 in. long, 100 in. wide and 96¾ in. high.

By inserting on the Readers Service Card the inquiry number at the end of this item, you will receive a 24-page catalog which illustrates and describes the C-6.

... Write No. 162

Tractor converts to grader

A Lev-L-All attachment which converts an industrial wheel tractor to a 21-ft.-long motor grader is announced by Massey-Ferguson Industrial Division. Built for the Massey-Ferguson 202, 50-hp. tractor, the grader attachment is coupled to the tractor by a heavy steel yoke, replacing front wheels of the tractor. Standard equipment includes hydraulically operated leaning front wheels and lateral shift. Blade also is hydraulically powered and operated by controls



mounted at the tractor seat. The blade can be turned 145 deg. Turning radius of the entire rig is only 28-ft. Company officials say the Lev-L-All will match the work output of any single-purpose 50-hp. tandem motor grader in its weight class and at much lower cost. The unit can be easily attached or taken off to permit the tractor to be used for other purposes.

... Write No. 163

Big loader speeds handling of paving materials

The big rubber-tired front-end loader shown in the photograph is working at the Southern Pacific Milling Co., Ventura, Calif., one of the largest suppliers of paving materials on the West Coast. The rig is a Model 404 Trojan tractor shovel manufactured by Yale & Towne.

The tractor shovel has enabled the company to retire three obsolete 1-yd. clamshell cranes that had



previously handled the loading operations. The tractor shovel loads a 25-ton dump-truck to capacity in 1½ min. During an ordinary 1-hr. stretch of work time it loads a fleet of 25, 14-ton dump trucks, loading some 900 yd. of material during a full day work cycle. By actual timing it takes the 4-yd. capacity Trojan one-quarter of the time it took the clamshell crane to load a truck, thus giving Southern Pacific a four times greater rate of production. The great speed and maneuverability of the tractor shovel counts plenty when it is considered that material stock-piles at this location are as far as 1-mi. distance from each other.

... Write No. 500

In the West you can't beat BEATTY SCAFFOLD



ONLY

Beatty combines quality and safety with all 4 of these cost advantages

1. **PATENTED "SNAP-LOCK"** eliminates wing-nuts, studs, slides, wedges. No openings to fill with concrete, mortar, etc. and jam spring lock.
2. **SERVICE** you can depend on. Our own truck fleet assures "on time" delivery and pick-up. From original quote on . . . you can't beat Beatty!
3. **MANUFACTURING** skill plus the finest raw materials available have made Beatty the name for scaffold in the West for over 20 years. You can't beat Beatty workmanship—all welds are chipped, paint is perfect—in *every* unit.
4. **ERECTION AND STRIPPING** are *fast* operations, thanks to Beatty's spring-action "Snap Lock". Less planking required, too. You save time, materials, dollars!

S. Pat. No. 574-765
and No. 662-857



BEATTY SCAFFOLD, INC.

TUNNEL AVENUE & BEATTY ROAD • SAN FRANCISCO 24 • JUNiper 5-0581

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Distributors in all principal cities

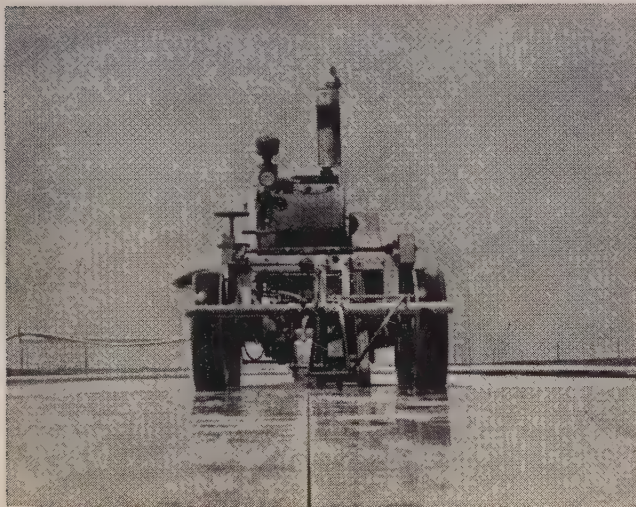
*. . . for more details, write No. 42 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section*

Equipment for 1960

Clipper's saw saves labor

Clipper's automatically operated longitudinal concrete saw, featuring two independently controlled cutting heads, recently aided a contractor in finishing a 12-mi. divided highway days ahead of schedule. The Clipper 56-hp. C-560 sawed all longitudinal joints in the well cured concrete within three to seven days after the pour. It was able to cut 3,570 ft. at a 2½-in. depth in an 8½-hr. day, which was more than enough to keep ahead of the paving operation.

Only two men were required to handle the longitudinal sawing job because of the automatic opera-



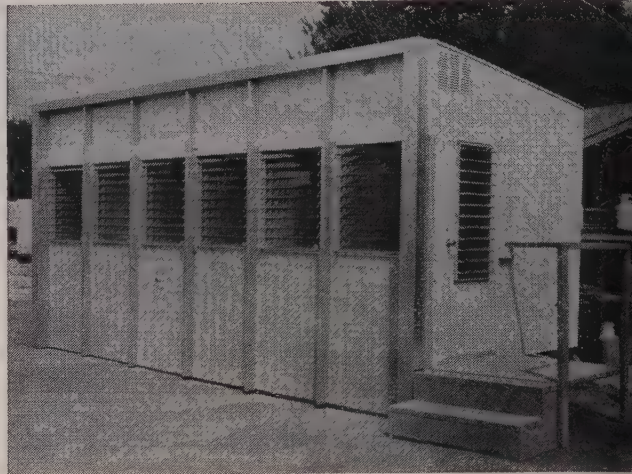
tion of the C-560. One washed the joint and concrete surface, the other moved the water truck and generally supervised the sawing operation including starting and stopping the saw. No operator was needed to steer or otherwise operate the controls. The C-560 with its 50-gal. capacity gas tank could operate the saw continuously up to 12 hr. To keep this operation constant, the contractor used one 2,200-gal. capacity water truck with a 5-hp. gasoline operated water pump to supply water to the saw. The only time the saw was shut down during the day was to grease the blade shaft bearings and clean the sludge screen in the hose connector line. Rate of production averaged in excess of 420 ft. per hr.

Two diamond blades, mounted on independently controlled cutting heads positioned in tandem, each sawed 1¼ in. of the required 2½-in. depth of cut. Each cutting head has its own pressure equalizer spring which cushioned the blade shock, greatly improving blade life. The outrigger type guide enabled the Clipper to follow perfectly the contour of the highway, both on the straight-way and around curves.

... Write No. 164

Low cost office trailer

A trailer office that looks like a permanent structure but can be moved with the ease of a house trailer is marketed by Go Cal Inc. The unit contains two 8 x 10-ft. offices separated by a sliding door. Interiors have pre-finished plywood wall paneling, acoustical ceilings, attractive light fixtures and linoleum tile



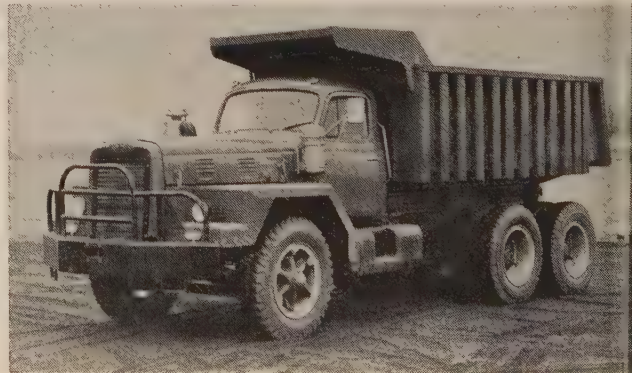
floors. It has a shed roof and aluminum paneled front with jalousie type windows running the full length of the front side. Removable skirt covers trailer wheels. The Mobile office is 23 ft. long, 8 ft. wide and weighs 3,000 lb. Steps, platform, and electric brakes are standard equipment. Furnishings are optional.

... Write No. 165

Off-the-road models for IH

A new series of off-highway heavy-duty International trucks with choice of gasoline, LPG or diesel powered engines has been introduced by International Harvester Co. Six basic models in both four-wheel and six-wheel design, offer gross vehicle weight ratings ranging from 46,000 to 73,000 lb. They are designed and built specifically for severe off-highway service with every component engineered to deliver dependable, long-life performance under heavy loads.

Design features include diamond plate steel fenders, heavy-duty brush guard, double-channel heat-treated



frame, two new rear axles and a broad selection of heavy-duty optional components.

Power steering is standard equipment on all models. New rear axle on the standard 230 four-wheel model is rated at 35,000 lb. Its features include a cast steel housing, high torque capacity planetary double-reduction differential carrier, induction-hardened axles and forced flow lubrication that insures an adequate supply of lubricant to all working parts of the axle within one-half revolution of the wheels.

... Write No. 166



his Cast Tooth Really Slices Deep

25% faster...10 times longer!

It's cast of Wearpact Steel ... engineered right

... and 500 Brinell hard from end to end.

When all the shouting about ripper tooth design is over, there are only two real considerations: How *well* does it cut, and how *long*?

On job after job, this WEARPACT tooth cut faster—and maintained that fast-cutting edge longer than any other known alloy!

Note the long, lean contours. Here's a tooth that slices cleanly. No need to "beef it up" to the point of dullness. Wearpact, with its unique combination of strength and re-

sistance to impact and abrasion, actually does *more* work using *less* metal.

Ripper teeth are only one of many applications where tough Wearpact Steel saves money. End bits, grousers, dipper teeth... all represent dollar-saving uses for this tough alloy, which has a 500 Brinell hardness range.

Contact the WEARPACT dealer closest to you

Archer Tractor & Machinery Company, Salt Lake City • American-Western Foundries, Los Angeles, San Francisco, Eugene, Portland, Seattle • c/o Kunkle Transfer & Storage Co., Phoenix • Union Supply Company, Denver

ok to

WEARPACT

CAST STEEL

cut your digging costs!

.....

AMERICAN STEEL FOUNDRIES

3761 Canal St., East Chicago, Ind.

- ☐ We are interested in testing Wearpact on _____
- ☐ Please send complete information on physical properties.

Name _____ Title _____

Company _____

Address _____

City & Zone _____ State _____



Tall crane speeds unusual pre-stressed concrete building

Even though the giant Beatty-Pecco crane was introduced to the West less than a year ago it already promises to be a common sight on Western projects. Following the example of Los Angeles and Seattle, San Francisco has become the scene for the giant exploits. But on the San Francisco project the crane is not the only unusual feature. The 13-story building under construction will also incorporate the slip-form method and the prestressed lift-slab method, the first time these two techniques have been combined on one project in the West.

The Beatty-Pecco crane was used

to pour concrete for simultaneous erection of three slip-form stair and elevator towers and to lift all construction materials to the tower platforms. The single crane takes the place of three electric hoists and eliminates the need for all construction staging.

When the big crane arrives on the job a simple pulling of the lever is all that is needed to enable it to stretch to its full height of 200 ft. in less than 7 min. At this height it can lift a 4½-ton load straight up, 17 stories high in one minute flat. At lower heights, up to about 10 stories it can lift 9 tons. When the jib of the crane is



GEORGE P. BELCHER, (left) owner-contractor, David F. Beatty, vice president, Beatty Scaffolding, Inc., and Herbert Korner, project engineer, discuss the job.

lowered the crane can reach out about 100 ft. in any direction, pick up a 2-ton load, lift it high enough to clear a 10-story building and swing it into place 100 ft. in the opposite direction in less than one minute.

To give it even more range on this project it is mounted on tracks. It can travel backward or forward on the tracks, turn in a full circle, raise or lower a load on the pulley and raise or lower its jib, simultaneously if necessary, at any one of four different speeds. The operator has only two controls to manipulate and can work from any one of three driving posts, at the base of the tower, midway, or directly under the jib point, whichever position gives him the best view of the work at hand.

The crane is automatically switched off when the load on the hook is too great, the hook is wound too high, the jib is luffed too high, the jib is luffed too low, or the crane approaches the end of its track.

The 561 model of the Beatty-Pecco crane is driven by five electric motors, the highest horsepower (60 hp.) being used for the hoisting action.

In place of the usual dust proof guarding of the main hoisting gears, utilizing grease lubrication and bronze shaft bearings, the crane utilizes oil bath gear trains throughout. In contrast to many other makes of tower cranes, luffing is not carried out by releasing the load and overhauling with the hoist rope. The motors drive directly onto the gear flanges. The heavy double flange brakes are mounted on motor shaft extensions.

... Write No. 162

ALL NEW INSLEY TRUCK CRANE

0-ton capacity yet lightweight for travel

● The all new Insley Type M gets to the job and on the job *fast* with a minimum of preparation time.

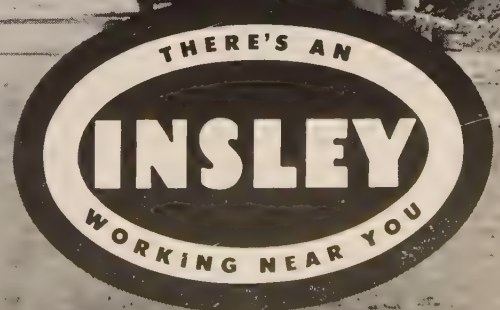
Such features as simplified back-hitch gantry (requiring only minutes to raise or lower), independent boom hoist, pendant type suspension with floating bridle connections to boom for quick change of sections, hammer-head type boom point with three wide flange sheaves, and a modern wide-vision cab are but a few of the reasons why contractors are

calling the Insley M the best all-round truck crane on the market.

Unmatched flexibility of job handling is available with such optional features as: power load lowering, third drum, remote control and shifting base for upper works.

There are many new design features inside the M's eye-pleasing, wide-vision cab. Ask your Insley Distributor about them today.

Insley owner Smith & Johnson, Inc., Indianapolis, Indiana, setting 8 ton 80' 7" bridge beams for highway overpass.



INSLEY MANUFACTURING CORPORATION

General Offices - Indianapolis 6, Indiana

Equipment for 1960

Self propelled 9-wheel roller is Galion's newest

A 9-wheel, 12-ton, self-propelled rubber-tired roller for base and finished surface compaction is the newest machine in the line of construction equipment manufactured by the **Galion Iron Wks. & Mfg. Co.** The rig has four drive compacting wheels and five steering compacting wheels. The front end rear wheel treads overlap. The over-all design of this roller provides for complete visibility for operating close to curbs and buildings.

To make maintenance easier each tire wheel and wheel brake is serviceable individually, the completely enclosed drive chains are easily accessible and service-



able individually, and the entire power train can be removed as a unit. The roll has full oscillating multiple kingpins which are designed to reduce inward movement of the front wheels to an absolute minimum. Individual steering of the five front units gives maximum support to the roller on uneven ground, and hydraulic-booster steering requires little operating effort. When fully balasted the machine weighs 24,500 lb., with a maximum load of 2,722 lb. per tire or 340-lb. compression per inch width of tire.

The IHC-UB220 gasoline engine which powers this roller is rated at 80 hp.

In the photograph the roller is seen at work on a road job near Berkeley, Calif.

... Write No. 168

Base stabilizer plant can handle different materials

A portable highway-airport base stabilizer plant which can handle cement, calcium chloride or bitumins has been put on the market by **Madsen Works Division of Baldwin-Lima-Hamilton**. Particular emphasis in designing this plant was placed on easy erection and dismantling, mechanical simplicity, high and constant production and precision proportioning and control of cement and water going into the mix.

The pugmill mixer used is a twin-shaft continuous type, designed for producing 600 ton per hr. of stabilized base. Long life segmented mixer liners are used, which can be quickly removed when replacement is necessary. A new and unique push-pull gate controls the mixing pressure by maintaining a constant and desired depth of material in the pugmill. The plant is designed so that the cold feed can be



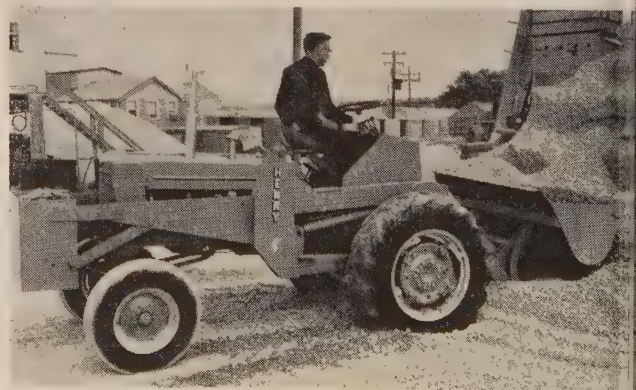
brought into the mixer on either side of the plant or at the end. The mixed material hopper is unlike prevailing designs which utilize a hopper or bin at the end of the mixer in that it has a drive-through-way in either of two directions. The mixed material hopper is located in the center of this drive-through area which gives flexibility in the initial setup. A 9-ft. 6-in. clearance for trucks is provided.

The plant is equipped with a suitable water pump and drive, shut-off valve, immediately adjustable water meter and spray bars for accurate metering of water to mixer. A cement valve and screw conveyor for precision metering of cement is available to fit the plant. The plant is constructed in separable units that may be purchased with all of its required components, or just those items which the contractor may need: (1) leg frame unit, (2) mixed material bin unit, (3) continuous mixer unit, and (4) engine frame unit.

... Write No. 1

Loader has self-loading bucket

With a reverse mounted loader, the RL-400 Series has been added to the construction equipment line of **Henry Manufacturing Co. Inc.** Designed primarily for stock-pile work, it features a self-loading bucket. The 1-yd. bucket is loaded by hydraulic power and does

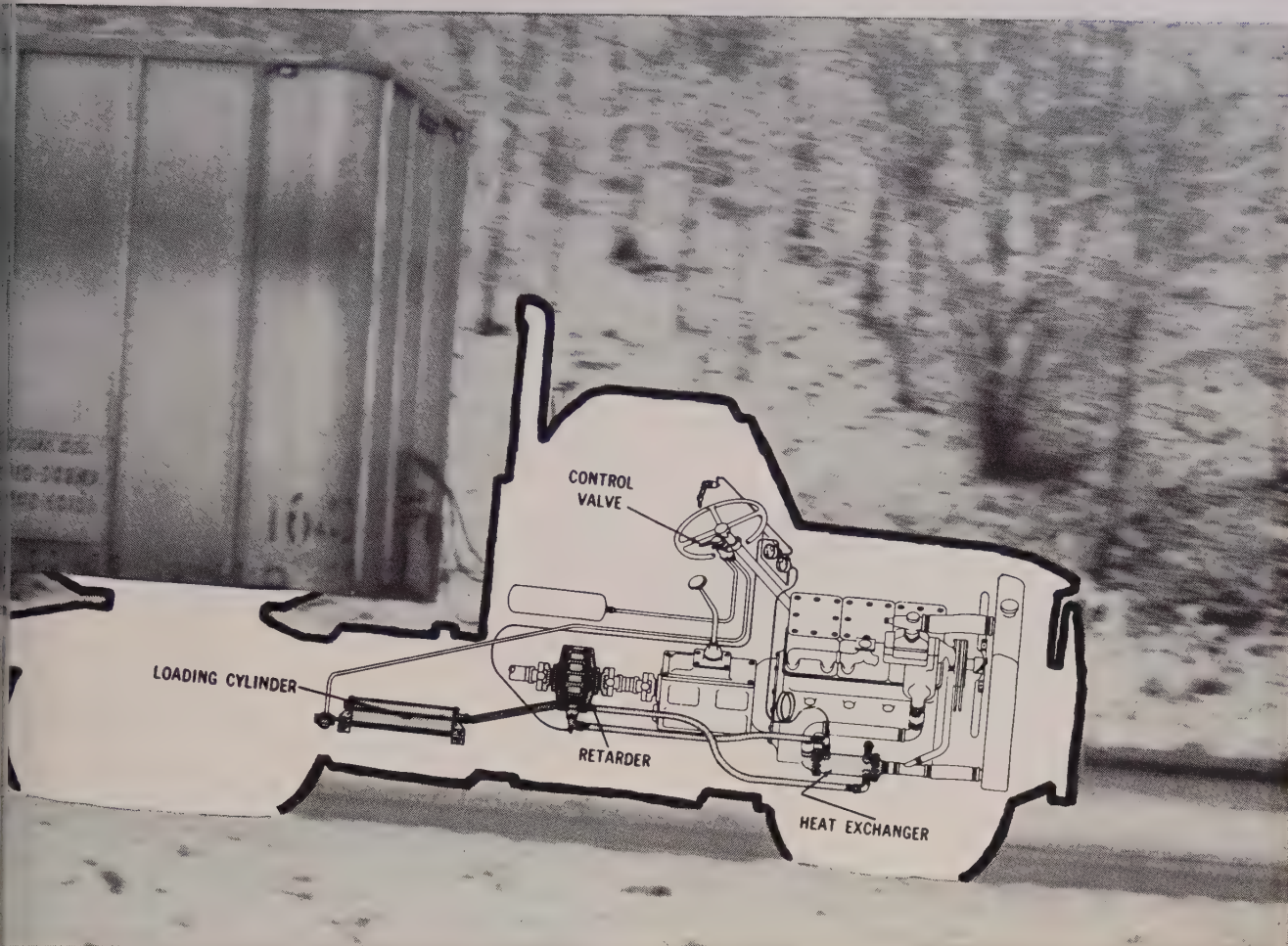


not depend on the traction of the tractor. A specially designed control valve enables the bucket to self-level.

The RL-400 is designed to mount on utility tractors and has a lifting capacity to full height of 3,000 lb. Breakaway capacity is 4,500 lb.

... Write No. 1

(Continued on page 98)



PROVEN THOMPSON RETARDER

Increases Engine Life: Retarder helps maintain uniform and efficient engine temperature while descending long grades.

Retards smoothly: No sudden jolts or wheel sliding. You get better tire mileage and no cargo shifting.

Here's how it does it*

The operator controls the retarder with a simple hand control valve to supply air to a loading cylinder which introduces fluid into the retarder unit. The fluid, acting within the unit, absorbs energy in the form of heat. The fluid is pumped through a heat exchanger interconnected with the vehicle's cooling system. Retardation is immediate, but variable according to requirements.

Also available in rear axle mount.

The Thompson Retarder is approved as optional equipment by several leading truck manufacturers. For complete information on how the Thompson Retarder can save you money, make your operation safer, see your Truck Dealer or write for illustrated brochure.

Thompson Products Michigan Division
34201 Van Dyke Avenue
Warren, Michigan

Gentlemen:

Please send us descriptive literature on the new, lightweight Thompson Retarder.

Company Name _____

Street Address _____

City _____ Zone _____ State _____

Number of Units Operated _____

Signed _____ Title _____



AUTOMOTIVE GROUP

THOMPSON PRODUCTS MICHIGAN DIVISION

Thompson Ramo Wooldridge Inc. • 34201 Van Dyke Ave.
Warren, Michigan

THOMPSON PRODUCTS
LIGHT METALS
DIVISION

THOMPSON PRODUCTS
MICHIGAN DIVISION

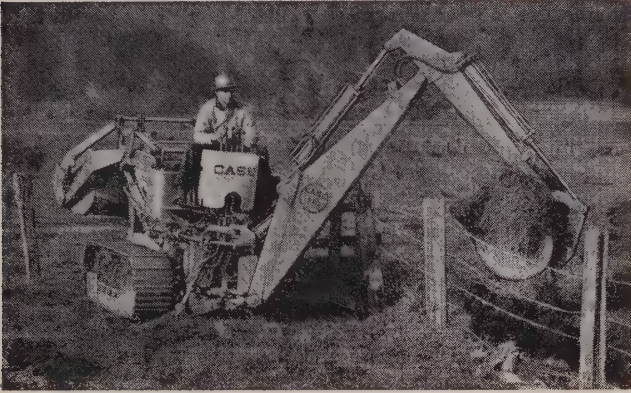
THOMPSON PRODUCTS
VALVE DIVISION

THOMPSON PRODUCTS
RAMCO DIVISION

THOMPSON PRODUCTS
MOTOR EQUIPMENT
MANUFACTURING DIVISION

Case has crawler-mounted backhoe-loader

Introduction of crawler-mounted J. I. Case 310C Utility crawler backhoe-loader brought new versatility and economy to light dirt-moving operations in mud, sand, and all manner of footing. Handy for trenching, ditching, digging footings, and all-around excavating and dirt moving, budget-priced Model 310C earned a reputation for power, reliability, and a compact, low-cost "package".



The Case-built backhoe offers performance on a par with diggers on larger tractors. It cuts over 15 ft. of 4-ft. deep trench from one position . . . digs 12½ ft. deep, reaches over 16 ft. from pivot, and loads into side-boarded trucks to 10½ ft. high. A major advantage claimed by Case is smooth hydraulic control of the 180-deg. swing with handy foot pedals, which speeds the dig-and-dump cycle by leaving the operator's hands entirely free to work bucket levers. A choice of 9 buckets is offered including regular digging, bell-hole, and grave-digging types.

For backfilling, loading and small excavating jobs, it is equipped with 2,600-lb. front-end loader. This powerful unit digs with ⅝-yd. tread-width bucket, exerts 4,300 lb. breakaway force. It lifts full loads over 9 ft., and dumps clean with 8-ft. 10-in. clearance, allowing quick return for another bucket load. Bucket has reversible cutting edge, renewable tips, and digging teeth are optional. For special material handling, or extensive backfilling and grading, a pallet fork or dozer blade attachment may be interchanged with the bucket in 5 min.

The 310C tractor provides 5,815 lb. push-pull power for tough digging and getting around in bad footing. It develops 29.07-drawbar-hp. with gasoline engine that provides maximum 128 lb.-ft. torque at 2/3 rated rpm. This is claimed to be largest engine, highest torque, and most favorable torque peak in the low-price crawler field. Extra ground-grip is provided by (exclusive) spring-mounted suspension that allows independent track oscillation to keep more track on the ground at all times.

On load-and-return cycles the Case 310C crawler never stops or jerks in turns, because 'finger-touch power-in-turn steering keeps "live" power always on both tracks. Heavy-duty tractor features include ferro-metallic clutch, flexible universal-joint drive shaft, 100% anti-friction drive train, dirt-free roller-bearing

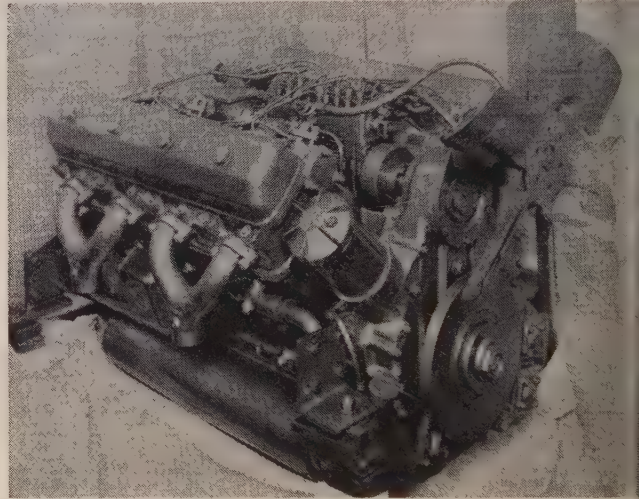
track rollers, extra-heavy track rails and 4-bolt track shoe mounting. A rigid torque tube cross-member joining these heavy-duty track assemblies, absorbs stress and shock to protect the drive train, and keeps tracks always aligned.

The picture shows Bob Biasca of Coos Bay, Ore., cleaning a ditch on a ranch job, reaching over a fence so he can pile the dirt at left. He operates entirely with his right hand, having lost his left. But it doesn't slow Bob down because the Case rig has foot-operated hydraulic swing which avoids one-at-a-time control movement, and makes operation faster and easier.

... Write No. 171

Diesels designed for trucks

Hercules Motors Corp. has introduced the first line of diesel engines designed specifically to provide low cost efficient operation in light and medium trucks.



Several of the engines incorporate a new concept of diesel combustion chamber that permits operation with a wide variety of fuels, including all grades of diesel fuel, kerosene, lubricating oil, gasoline and jet aircraft fuel.

While designed primarily for automotive applications, the diesels, ranging in size from 50 to 350 hp. in three, four, six and eight cylinder models, will also find use in a wide variety of construction and other applications. The major significance is the fact that owners of light and medium-duty trucks will find it economically feasible to re-power their fleets with diesel power.

They are new engines and not scaled-down versions of large truck diesels that are too heavy and too expensive for the light or medium size truck. The principal deterrent to widespread diesel operation in light and medium trucks has been the lack of an engine with the proper combination of weight, configuration, high-speed operating characteristics and initial cost.

Four of the new engines incorporate a new diesel combustion system, the result of an exhaustive research. Employing a special alloy insert, the combustion chamber permits the use of almost any hydrocarbon as a fuel. At the same time, it performs efficiently for commercial applications where fuel economy, durability and reliability are primary considerations.

... Write No. 172

Now Dodge builds 'em extra-big...

GAS OR DIESEL...

G.V.W.'s to 53,000 lbs.!

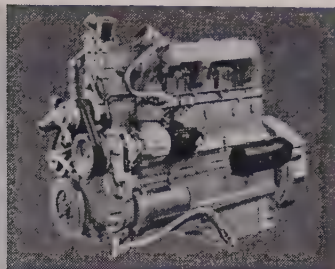
You're looking at a totally *new* kind of Dodge truck. Big, yet its short 89 $\frac{3}{4}$ " bumper-to-back-of-cab dimension keeps it agile and easy to handle. Compact, yet its exclusive Servi-Swing fenders make it easy to service.

A truck quality-built for *toughest* construction jobs!

1960 Dodge Cab-Forwards offer new gasoline V-8 engines and four big Cummins diesels. Strong new heat-treated chrome-manganese frames, aluminized mufflers, big 14- and 15-inch clutches. And a whole line of new transmissions, with up to 20 speeds forward!

Big choice of models includes tandem and single-rear-axle types. Many wheelbases of ideal length for dump, rock and mixer bodies. Tractors, all the way up to 76,800 lbs. G.C.W.!

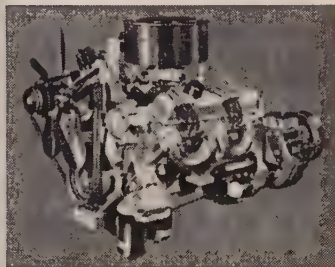
Check the new Dodge "big ones" now. Your Dodge dealer's is the place . . . and delivery is quick!



CUMMINS DIESELS are now available in Dodge for big fuel savings and extra stamina in construction hauling. Four engines available, with displacements from 464 to 743 cu. in.; horsepower to 220; torque to 605 lb.-ft.



SERVI-SWING FENDERS . . . Newest idea in engine servicing! Just flick a latch and these fenders open outward, making the engine easy to reach from either side. Check oil, water, battery without raising the hood!

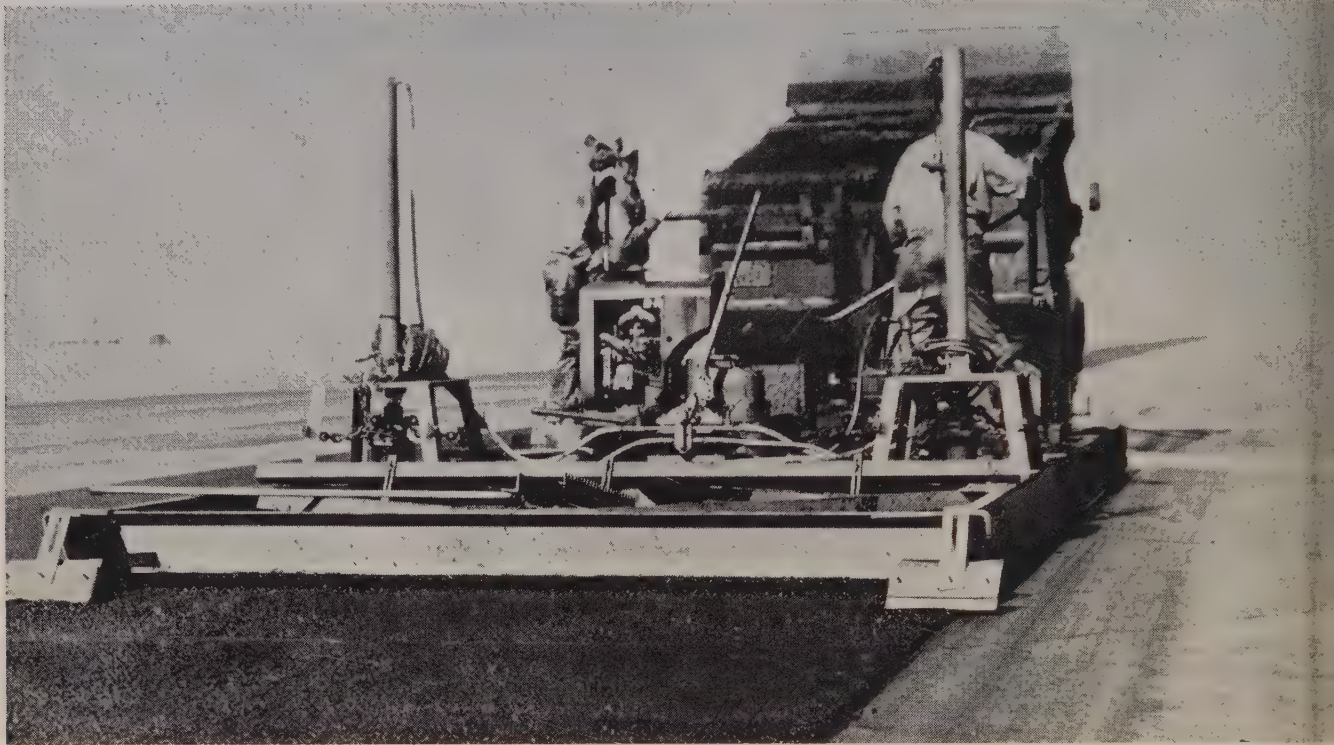


NEW GAS V-8's, with 361- and 413-cu. in. displacements, deliver up to 228 horsepower. They're packed with premium features, such as tri-metal bearings and oil cooler, to insure peak performance and long life.

**DEPEND ON
DODGE
TO SAVE YOU
MONEY IN
TRUCKS**

PRODUCT OF CHRYSLER CORPORATION

. . . for more details, write No. 47 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section



THIS sturdily-constructed spreader-box was used to apply both the Bitumuls asphaltic concrete and the slurry seal used in beefing-up the main runway at Mountain Home Air Force Base. The machine is spreading the overlay, and was later used to spread the seal.

Emulsion overlay placed on Air Force Base runway

Late last year, engineering personnel at Mountain Home Air Force Base, Idaho, were faced with a serious problem when heavy jet bombers were moved in to the field for permanent operation.

After careful evaluation it was decided that all runways would be adequate with one exception. On this, the main runway, the crown of the pavement would have to be raised.

Due to the nature of the job, the location of the field in relation to existing hot-plant facilities, and the quantities required, a cold-mixed emulsified asphalt concrete overlay was specified. The job was awarded to Boise Paving & Asphalt Co., Boise.

The existing pavement was a portland cement concrete slab that varied in thickness from 9 to 12 in., with an asphaltic concrete overlay. In order to raise the crown, an additional lift of cold-mixed emulsified concrete would be placed in the center and feathered out to approximately 1/4 in. at the edges. It

was also decided that a Bitumuls slurry seal would be placed over the entire runway.

The following aggregate gradation was used in preparing the Bitumuls asphaltic concrete:

Gradation	% Passing
1/2 in.	100%
3/8 in.	85-100%
No. 10	45-60%
No. 40	35-50%
No. 80	10-15%
No. 200	4-10%

This cold, wet, graded aggregate, was mixed in a pugmill using approximately 12% of Bitumuls DM-lh (by weight). The mix was then trucked to the runway for placement.

It was at this point that an unusual technique was employed: the cold Bitumuls mix was chuted from the truck into a specially-constructed spreader-box. This unit was more ruggedly constructed than the similar boxes built for slurry sealing, with a strike-off squeegee capable of adjustment in height up to 2 in. This strike-off

element is operated by hydraulic jacks. The entire box is mounted on 24-ft. runners designed to bridge low spots.

With this machine the first center lift was placed to a thickness of 1/2 in. The second layer was laid down all the way across the runway in a thickness of 1/4 in. in the center lanes and feathered-out to zero at the pavement edges. Each lift was rolled and compacted before the next was placed.

Slurry sealing

Over the entire surface of the runway a Bitumuls slurry seal was placed. This sealed and also provided a smooth, skid-proof landing surface. The mix consisted of aggregate all passing the No. 10 sieve and 6 to 13% passing the #20 mesh sieve; combined with Bitumuls and water. Delivered to the job in trucks, this mix was also chuted into the same spreader-box which was now adjusted to apply a very thin coating.

This job was remarkable for several reasons, the outstanding one being the economy resulting from the overall use of cold-mix materials.

... Write No. 1

WESTERN

CONSTRUCTION

1960 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 13 Western states, including Alaska and Hawaii.

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; Diamond Bits; Special Laboratory Type Core Drills.

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

ARIZONA
Phoenix Neil B. McGinnis Equipment Co.
CALIFORNIA
Berkeley West Coast Engine & Eqpt. Co.
Los Angeles Calavar Corp.
Redding Shasta Truck and Equipment Sales
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.
UTAH
Salt Lake City Rocky Mountain Machinery Co.
WASHINGTON
Seattle Pacific Hoist and Derrick Company
Spokane Andrews Eqpt. 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.

Distributors

HAWAII
Honolulu Pell, Inc.
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 Road
San Carlos, California

PRODUCTS: Concrete Adhesives; Bonding Agents for Metal.

Distributors

CALIFORNIA
Oakland, Sacramento and San Francisco W. J. Burke & Co.
NEW MEXICO
Albuquerque W. J. Burke & Co.
WASHINGTON
Seattle W. J. Burke & Co.

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; Batch Plants, portable concrete.

Factory Branch

CALIFORNIA
Los Angeles—Manager Joseph Lynch
3217 Union Pacific Ave.

AEROQUIP CORPORATION

300 South East Avenue
Jackson, Michigan

PRODUCTS: Flexible Hose Assemblies; Detachable, Reusable Fittings; Bulk Hose; Self-Sealing Couplings; Hydrauliscopes; Brazed Aluminum Elbows and Tubing Configurations; Steel and Stainless Steel Tubing Products.

Western Division

CALIFORNIA
Burbank, 3015 Winan Ave. F. F. Hinkley
Vice President & General Manager

Northwest Warehouse

OREGON
Portland, 635 N.W. 16th Ave. Peter S. Naimo, Mgr.

Distributors

ALASKA
Anchorage B & C Auto Electric
ARIZONA
Phoenix Automotive Sales Co.
Tucson Cummins Arizona Diesel, Inc.
CALIFORNIA
Arcata Brake Supply Co.
Berkeley Moty & Van Dyke, Inc.
El Centro Williams & Lane
Eureka Winn Supply Co.
Fresno Bearing & Transmission Products
Fresno General Bearings Co.
Long Beach Watson & Meehan
Long Beach Smith & Thorp Co., Ltd.
(Continued in next column)

Aeroquip Corporation (Cont'd)

Los Angeles Charles W. Carter Co.
Commercial Motor Parts
Nelson-Dunn, Inc.
Oakland Hoffmeyer Belting & Supply Co.
Patterson Parts, Inc.
Redding Moty & Van Dyke, Inc.
Sacramento Gerlinger Motor Parts
San Diego Winn Supply Co.
San Francisco Patterson Parts, Inc.
Watson & Meehan
H. N. Cook Belting Co.
Stockton Automotive Parts Co.
COLORADO
Denver Emrick & Hill
Plant Equipment Co.
Western Industrial Services Co., Inc.
Grand Junction Plateau Equipment Co.
HAWAII
Honolulu Charles W. Carter Co.
Arthur H. deRocher Co.
IDAHO
Boise Intermountain Equipment Co.
Lewiston Jameson Machine
MONTANA
Billings Automotive & Industrial Distributor
Power Transmission Co.
Butte Automotive & Industrial Distributor
Great Falls Automotive & Industrial Distributor
Hines Motor Supply
NEVADA
Las Vegas Clark Co. Whlsl. Mercantile Co.
Reno Sierra Machinery Co.
Truck Parts & Equipment Co.
NEW MEXICO
Albuquerque Cummins Rio Grande Sales & Service
Lively Equipment Co.
OREGON
Eugene Myrmo Equipment
Klamath Falls Moty & Van Dyke, Inc.
Medford Sam Jennings Co.
North Bend Golder Auto Supply
Portland Diesel Service Unit Co.
Oil Filter Service
Truck Parts Distributing, Inc.
Williamette Sales
UTAH
Ogden Aviation Industrial Supply Co.
Salt Lake City Cummins Intermtn. Diesel Sales
Wilson's Transport Supply Co.
WASHINGTON
Hoquiam F. G. Foster
Raymond F. G. Foster
Seattle Central Sales & Service, Inc.
Northwest Motor Parts
Spencer Aircraft Industries
Spokane Haines Industries
Tacoma W. S. Walter Co.
Walla Walla White Bros.
Yakima Dodge-Yakima
WYOMING
Casper Emrick & Hill
(Continued on next page)

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
City of Industry Smith Booth Usher Co.
Fresno Edward R. Bacon Co.
Oakland Edward R. Bacon Co.
Sacramento Edward R. Bacon Co.
San Diego Smith Booth Usher Co.
San Francisco Edward R. Bacon 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

Air Placement Equip. Co. (Cont'd)

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.....	F. W. Boley
CALIFORNIA	
Bakersfield, 3131 Jewett Ave..	E. E. Broadwater
Burbank, 3200 Burbank Blvd.....	R. M. Parma
Fresno, 2319 Santa Clara.....	R. Robinson
Inglewood, 1513 Centinela.....	E. J. Tripp
San Diego, 1531 Rigel St.....	R. W. Gauck
Stockton, 845 E. Hazelton.....	D. Martindale
WASHINGTON	
Tacoma, 2235 Ross Way.....	E. J. White

Factory Personnel

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

Distributors in seven Western states and Hawaii
consult your telephone directory.

ALEMITE DIVISION**STEWART-WARNER CORP.**

1826-52 Diversey Parkway
Chicago 14, Illinois

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

Distributors

ARIZONA	
Phoenix	Alemite Stewart-Warner Co. of Ariz.
CALIFORNIA	
Los Angeles.....	Alemite Co. of So. California
S. San Francisco.....	Alemite Co. of No. California
COLORADO	
Denver	The Alemite Co., Inc.
MONTANA	
Billings	Alemite Sales Co. of Montana
OREGON	
Portland	Alemite Co. of the Northwest
TEXAS	
El Paso	The Alemite Co. of the Southwest
UTAH	
Salt Lake City	& New Mexico
.....	The Alemite Stewart-Warner Co., Inc.

ALLIS-CHALMERS MANUFACTURING CO.

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

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

Factory Branches

CALIFORNIA	
Oakland—Manager	S. C. Skiman

(Continued in next column)

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

COLORADO	
Denver—Manager	N. A. Pohl
OREGON	
Portland—Manager	R. G. Mitchell

Dealers

ALASKA	
Anchorage	Yukon Equipment, Inc.
Fairbanks	Yukon Equipment, Inc.
ARIZONA	
Phoenix	Neil B. McGinnis Equipment Co.
CALIFORNIA	
Bakersfield	San Joaquin Tractor Co.
Berkeley	West Coast Engine & Equip. 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 & Equip. Co.
Ukiah	West Coast Engine & Equip. Co.
COLORADO	
Denver	Power Equipment Co.
Grand Junction	Power Equipment Co.
IDAHO	
Boise	Southern Idaho Equip. 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	The Corneliuss Co.
OREGON	
Medford	Haupt Tractor Co.
Portland	Wood Tractor Co.
Springfield	Timber Tractor Co.
UTAH	
Salt Lake City.....	Cate Equipment Co., Inc.
WASHINGTON	
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. Kegy

Distributors

ARIZONA	
Elfrida	Hill Truck Co.
Phoenix	Arizona Equipment Sales, Inc.
Tucson	Wilco
CALIFORNIA	
Long Beach	Anderson-Bevier Co., Inc.
Oakland	Thomas Short Co.
Oxnard	Power Truck Co.
Redding	Shasta Truck & Equipment Sales
Sacramento	Island Equipment Co., Inc.
COLORADO	
Denver	Power Equipment Co.
IDAHO	
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	
Hobbs	W. L. Sumner Co. of Texas, Inc.
Roswell	Smith Machinery Co., Inc.
OREGON	
Portland	Hamilton Engine Sales, Inc.
UTAH	
Price	Cate-Carbon Equipment Co.
Salt Lake City	Cate Equipment Co.
WASHINGTON	
Seattle	Fremont Electric Co.
.....	Pacific Fishing & Trading Co.
.....	Yukon Equipment Co., Inc.
Spokane	Spokane Diesel Electric
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., N.W.....	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. DiMarcurio

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.
IDAHO	
Boise	Arnold Machinery Co., Inc.
Idaho Falls	Arnold Machinery Co., Inc.
MONTANA	
Billings	Montana Powder & Equipment Co.
Helena	Montana Powder & Equipment Co.
OREGON	
Portland	Air-Mac, Inc.
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	Engineering Equip. Sales Co., Inc.
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 N.W. Front Ave.....	G. L. Ritter

C.I.T. Loans on Equipment Fleets increase contractors working capital funds

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. Acco St.... R. S. Heffner
OREGON
Portland, 2210 N.W. Roosevelt St. I. L. Schobert

Distributors

ARIZONA
Phoenix... Complete Auto & Home Supply Co.
Tucson... Min-A-Con Equipment Co.
CALIFORNIA
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.

Porterville..... Quinn Company
Redding..... Moty & Van-Dyke, Inc.
Riverside..... Brown-Bevis Industrial Equip. Co.
Sacramento..... Sacramento Valley Tractor Co.
San Diego..... Olsen-Johns Ship Chandlers Industries Supply Co.

San Francisco..... Bulotti Machinery Co.
San Jose..... C. W. Marwedel
San Pedro..... San Jose Supply House
Santa Maria..... Marine Hardware Co., Inc.
Stockton..... Hansen Equipment Co.
Visalia..... Geiger Iron Works, Inc.

Willow Creek..... Willow Creek Logging Supply
COLORADO
Creede..... Tomkins Hardware Co.
Denver..... Constructors Equipment Co.

Booth-Rouse Equipment Co.
Mid-Continent Supply Co.
Mountain Iron & Supply Co.
Al Plonkey & Associates

Grand Junction..... Mid-Continent Supply Co.
Pacifi & Western Industrial Supply
Pueblo..... S. W. Pressey & Son
Sterling..... Mid-Continent Supply Co.

IDAHO
Boise..... Kowallis & Richards
Idaho Falls..... Ideal Hardware
N. Lewiston..... Henderson Motors
Twin Falls..... McVeys, Inc.

MONTANA
Billings..... Great Northern Tool & Supply Co.
Bozeman..... Hall-Perry Machinery Co.
Butte..... Mid-Continent Supply Co.
Chester..... Montana Motor Supply Co.

Butte..... Hall-Perry Machinery Co.
Cut Bank..... Hall-Perry Machinery Co.
Great Falls..... Hall-Perry Machinery Co.
Kalispell..... Ind. Supply Div. of Forest Products
Kevin..... 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.
Carlsbad..... 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..... Gooch Logging Supply
Philomath..... Gooch Logging Supply
Portland..... Active Equipment Co.
Sweet Home..... Harmer Steel Products & Supply Co.

UTAH
Midvale..... Utah Bit & Steel, Inc.
Ogden..... George A. Lowe Co.
Provo..... Ahlander Hardware Co.
Salt Lake City..... Foulger Equipment Co.

National Equipment Co.
WASHINGTON
Aberdeen..... Grays Harbor Equipment Co.
Spokane..... Jensen-Byrd Co.
Tacoma..... Cablecraft, Inc.

(Continued in next column)

American Chain & Cable Company, Inc. (Cont'd)

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
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; 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.
NEW MEXICO
Albuquerque..... Winter Weiss Co.
OREGON
Portland..... Rudy Yost Truck 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
LaHabra, 1511 Joseph Ct.... Howard D. Griffin
WASHINGTON
Mercer Island, 9104 Fortuna Drive
Robert Lampman

Distributors

ARIZONA
Phoenix..... Cook Bros. Construction Mch. Co.
CALIFORNIA
Los Angeles..... Cook Bros. Construction Mch. Co.
Redding..... Paul Droscher Sales

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..... Lively Equipment Co.

OREGON
Portland..... Hamilton Equipment Co.
UTAH
Salt Lake City..... Parker Equipment Co.
WASHINGTON
Seattle..... A. H. Cox & Co.

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, 3043 S. Tanager Ave... R. H. Boag
San Francisco..... 44 Potrero Ave.
OREGON
Portland, 1518 N.W. Marshall... H. E. Tucker
WASHINGTON
Seattle, 755 Edmunds St..... T. Verhoef

Distributors

Stocked by most jobbers throughout the Western states.

AMERICAN MANGANESE STEEL DIVISION**389 East 14th Street
Chicago Heights, Illinois****PRODUCTS:** Power Shovel Dippers; Backhoe Buckets; End Bits; Tractor Sprockets; Crusher Parts; Hardfacing Welding Rods; Dredge Pumps.**Factory Branch Managers**

CALIFORNIA
Los Angeles, 5805 Downey Rd... A. L. Wortham
Oakland, 850 Ferry St..... Ed Wells
COLORADO
Denver, 4th and Wazee Sts.... H. C. Bauman

Distributors

ARIZONA
Phoenix..... Ralph H. Smith Co.
CALIFORNIA
Bakersfield..... Kern Welding Supplies
Fresno..... Sigler's
Oakland..... Alloy Hardfacing Co.

Placerville..... Portable Welding Service & Supply
San Diego..... Contractors Service Division
San Francisco..... Absco, Inc.
Santa Ana..... Apex Equipment Co.

COLORADO
Colorado Springs..... Denver Oxygen Co.
Denver, Grand Junction and Pueblo
Denver Oxygen Co.

IDAHO
Idaho Falls..... Sheehan's Welding Supply
MONTANA
Butte..... Construction Materials Co.
NEVADA
Fallon..... Bernie Spencer's Industrial Sales & Service
OREGON
Portland..... Industrial Specialties Co.

Oregon Tractor & Equipment Co.
UTAH
Salt Lake City..... Taylor M & S Co.
WASHINGTON
Aberdeen..... L. G. Isaacson Co., Inc.
Spokane..... Northwest Oxygen Co.

WYOMING
Cheyenne..... Denver Oxygen Co.
Worland..... Worland Oxygen Co.

AMERICAN-MARIETTA CO.**Presstite Division
600 Lairport Street
El Segundo, California****PRODUCTS:** Sealing Compounds—concrete curing Joint Sealers for concrete, automotive marine, aircraft and general industrial waterproofing and dustproofing, separating and bond-breaking; Hand and Power Operated Sprayers, Dispensers and Injection Guns; Meters to measure air content of fresh concrete; Wood Preservatives Fish Net Preservatives.

General Manager..... Ashton Road
Sales Manager..... Harry A. Lowry

Distributors

ALASKA
(Seattle)..... W. J. Burke & Co.
ARIZONA
Phoenix..... Superior Building Materials

CALIFORNIA
San Diego..... Squires-Belt Material Co.
San Francisco..... W. J. Burke & Co.
COLORADO
Denver..... K. C. Construction Supply Co.

HAWAII
Honolulu..... R. L. Castendyk Co.
MONTANA
Billings..... Midland Materials Co.
NEW MEXICO
Albuquerque..... W. J. Burke & Co.

OREGON
Portland..... W. J. Burke & Co.
UTAH
Salt Lake City..... Intermt. Concrete Specialties
WASHINGTON
Seattle..... W. J. Burke & Co.

WYOMING
Casper..... Casper Concrete Co.

AMERICAN PIPE & CONSTRUCTION CO.**P.O. Box 3428, Terminal Annex
Los Angeles 54, California****PRODUCTS:** Reinforced Concrete Pipe; Steel Fabricators.**C. I. T. CORPORATION****120 Montgomery Street, San Francisco
Northern Life Tower, Seattle****416 West 8th Street, Los Angeles
Equitable Building, Portland**

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 Concrete Carts.

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 Belting; Water, Air, Oil Suction and Discharge Hose, Cement Hose, Suction Hose, etc.; Fire Hose; Hose Racks, Reels and Cabinets; 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, 4312 S.E. Oak St. W. H. Galloway
UTAH
Midvale, 138 E. 7720 South J. K. Hardy
WASHINGTON
Seattle, Smith Tower L. D. Eneboe

AMERICAN STEEL FOUNDRIES

3761 Canal Street
East Chicago, Indiana

PRODUCTS: Dipper Tooth Points and component parts; Ripper Teeth and Grousers.

Distributors

ARIZONA
Phoenix American Western Foundries
CALIFORNIA
Los Angeles American Western Foundries
San Francisco American Western Foundries
COLORADO
Denver Union Supply Co.
IDAHO
(Eugene) American Western Foundries
MONTANA
(Portland) American Western Foundries
NEVADA
(Los Angeles) American Western Foundries
(Salt Lake City) Archer Tractor & Mchy. Co.
NEW MEXICO
(Phoenix) American Western Foundries
OREGON
Eugene American Western Foundries
Portland American Western Foundries
WASHINGTON
Seattle American Western Foundries
WYOMING
(Denver) Union Supply Co.
(Salt Lake City) Archer Tractor & Mchy. Co.

AMERICAN TRACTOR EQUIPMENT CORP.

9131 San Leandro Blvd.
Oakland 3, California

PRODUCTS: Bulldozers (inside and outside mount-
(Continued in next column)

American Tractor Equipment Corp. (Cont'd)

ed); Roadbuilders (angle blade); Scrapers (hydraulic); Front End Loaders; Rock Rippers (tractor mounted, hydraulic); Scarifiers (hydraulic); Pipeline and Cable Laying Rippers; Motor Grader Rippers.

Distributors

See your local Tractor Distributor.

ANDERSON ENTERPRISES, INC.

1123 Port of Tacoma Road
Tacoma 2, Washington

PRODUCTS: Concrete Vibrators; Prestressed Concrete Anchorages for prestressing flexible ducts for concrete post tensioning; Prestressed Concrete Light Poles; Prestressing Jacks.

ANTHONY CO.

Streator, Illinois

PRODUCTS: Truck Cranes; Hydraulic and Air Cylinders; Dump Bodies; Pumps; Trailers.

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

ARMCO DRAINAGE & METAL PRODUCTS, INC.

703 Curtis Street
Middletown, Ohio

PRODUCTS: Corrugated Metal Pipe; End Sections; Spiral Welded Steel Pipe; Metal Retaining Walls; Guardrail; Structural Plate Pipe, Arches and Pipe-Arches; Steel Buildings; Pile Shells and Caissons; Steel Pipe Piles; Water Control Gates; Flume; Steel Tunnel Liner Plate; Steel Sheet piling; 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—State Sales Manager Fred Dumler
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—State Sales Manager J. M. Thomas
UTAH
Salt Lake City—State Sales Manager C. E. Moss
WASHINGTON
Seattle—State Sales Manager R. E. Bodwell
WYOMING
Cheyenne—State Sales Manager F. D. Aeilts

ARMOUR INDUSTRIAL CHEMICAL CO.

110 North Wacker Drive
Chicago 6, Illinois

PRODUCTS: Asphalt Adhesion Agents; Cationic Asphalt Emulsifiers.
(Continued in next column)

Armour Industrial Chemical Co. (Cont'd)

Western Regional Manager

OREGON
Portland, 48 S.E. Hawthorne Blvd. E. L. Rhoads

Distributors

CALIFORNIA
Los Angeles and San Francisco Paul W. Wood Co.

ARPS CORPORATION

New Holstein, Wisconsin

PRODUCTS: Ditchers; Dozers; Scrapers; Trenchers; Landscaping Rakes.

Distributors

ALASKA
(Portland) Mitchell, Lewis & Staver
ARIZONA
Phoenix H. C. Shaw Co.
CALIFORNIA
Fresno, Santa Ana and Stockton H. C. Shaw Co.
COLORADO
Denver McCarty-Sherman Distr. Corp.
IDAHO
Caldwell Mitchell, Lewis & Staver
MONTANA
Billings Midland Equipment Co.
NEVADA
(Fresno) (Santa Ana) and (Stockton) H. C. Shaw Co.
NEW MEXICO
(Denver) Hill Machinery Co.
McCarty-Sherman Distr. Corp.
OREGON
Portland Mitchell, Lewis & Staver
UTAH
(Denver) Hill Machinery Co.
WASHINGTON
Spokane Mitchell, Lewis & Staver
WYOMING
(Billings) Midland Implement 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.
MONTANA
Great Falls Normont Equipment Co.
NEVADA
Reno General Equipment Co.
NEW MEXICO
Albuquerque N. C. Ribble Co.
UTAH
Salt Lake City Lang Construction Equip. 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
(Continued on next page)

C.I.T.'s Pay-As-You-Depreciate Plan provides long term financing for equipment purchases

Arrow Tools, Inc. (Cont'd)

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 Frank Fuller Equipment Co.
IDAHO
Boise Carl Burt Equipment Co.
NEVADA
Elko A & D Machinery Co.
NEW MEXICO
Las Cruces Oliver Equipment Co.
OREGON
Portland Guthrie Machinery Co.
UTAH
Salt Lake City Equipment Supply Co.
WASHINGTON
Seattle Caldwell Machinery Co.
WYOMING
(Denver) Frank Fuller Equipment 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 Empire 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 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.
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.

ATKINSON DYNAMICS

90 West Orange Avenue
South San Francisco, California

PRODUCTS: Electronic Devices for Construction Equipment.

Distributors

ALASKA
Anchorage B & C Auto Electric
HAWAII
Honolulu Theo. H. Davies & Co., Ltd.

ATLAS COPCO, A.B.

Stockholm 1, Sweden

PRODUCTS: Rock Drills; Compressors; Pavement Breakers; Tampers; Pile Hammers; Spaders; Air Hoists; Portable Gasoline-powered Rock Drill-Breakers; Air Floodlights; Sump Pumps; Grinders; Winches.

Factory Branch

CALIFORNIA
San Carlos, 930 Brittan Ave. C. E. Burton

Distributors

ARIZONA
Phoenix Atlas Copco Pacific, Inc.
COLORADO
Denver Atlas Copco Pacific, Inc.
UTAH
Salt Lake City Atlas Copco Pacific, Inc.
WASHINGTON
Spokane Atlas Copco Pacific, Inc.

ATLAS POWDER CO.

2036 Pioneer Court
San Mateo, California

PRODUCTS: Explosives; Blasting Supplies.

Western Managers

CALIFORNIA
San Mateo, 2036 Pioneer Ct. E. F. Dally
J. M. Ellis
WASHINGTON
Seattle, 5203 17th Ave., N.E. E. G. Easterly
Factory Manager
Richmond-Giant District E. P. Talspe

Distributors

ALASKA
Anchorage Northern Supply Co.
Fairbanks The Carrington Co.
ARIZONA
Flagstaff Babbitt Bros. Trading Co.
Phoenix D. W. Jaquays & Co.
CALIFORNIA
Arcata Loggers & Mill Supply Co.
Big Pine Big Pine General Store
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. Trebucco
Redding Lowry Equipment Co.
San Andreas Treat's General Store
San Rafael L. P. McNear
Santa Cruz Hartley 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.
HAWAII
Honolulu Eaves & Meredith Co., Ltd.
IDAHO
Boise The Sawtooth Co.
Hailey Francis Jones, Inc.
MONTANA
Butte W. P. Lavelle
NEVADA
Bartle Mountain E. O. 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

(Continued in next column)

Atlas Powder Co. (Cont'd)

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.
Roseburg Flegel Supply Co.

UTAH

Moab Bud Walter, Inc.
Salt Lake City Western Powder Co.

WASHINGTON

Marshall Orland Powder Co.
Raymond Dennis Company
Sedro Valley Mt. Baker Hardware
Shelton Lumberman's Mercantile
Yakima Webb Tractor & Equipment Co.

WYOMING

Casper Union Supply Co.

ATLAS SCRAPER & ENGINEERING CO.

6203 Maywood Avenue
Bell, California

PRODUCTS: Cylinders, hydraulic; Hydraulic Power Units; Land Levelers and Grade Makers; Rippers; Scrapers; Structural Steel.

SEE YOUR LOCAL TRACTOR DEALER

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, 252 Fairfield Ct. Fred Bourquin
COLORADO
Denver, 3295 S. Dexter Harold G. Downey
WASHINGTON
Spokane, W. 532-27th Ave. E. L. Kleckner

Distributors

ALASKA
Anchorage Airport Machinery Co.
ARIZONA
Phoenix Western Machinery Co.
CALIFORNIA
City of Industry Smith Booth Usher Co.
San Francisco Edward R. Bacon Co.
COLORADO
Denver Macdonald Equipment Co.
HAWAII
Honolulu Edw. R. Bacon Co. of Hawaii
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 Howard-Cooper Corp.
Northwest Tractor & Equipment Co.
UTAH
Salt Lake City Western Machinery Co.
WASHINGTON
Spokane Western Machinery Co.
WYOMING
Casper Keremi Tractor & Equipment Co.
Cheyenne Keremi Tractor & Equipment Co.

AUTOMATIC SWITCH CO.

50-56 Hanover Road
Florham Park, New Jersey

PRODUCTS: Electromagnetic Control; Automatic Transfer Switches; Remote Control Switches
(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

Automatic Switch Co. (Cont'd)
Contactors; Relays; Solenoids; Electric
Plant Control Solenoid Valves—2, 3 and
4-way.

CALIFORNIA **Factory Branch**
Los Angeles, 1233 Goodrich Blvd.

ARIZONA **Representatives**
Phoenix Barney H. Hartley
(Electromagnetic Control only)
Steel & Engrg. Products Co.

CALIFORNIA
San Francisco Paul S. Everley Co.

COLORADO
Denver Clyde P. Elliott Co.

HAWAII
Hilo Hilo Iron Works

NEW MEXICO
Honolulu Honolulu Iron Works

ALBUQUERQUE Ralph B. Black
(Electromagnetic Control only)
Steel & Engrg. Products Co. (Valves only)

UTAH
Salt Lake City Control Equipment Co.

WASHINGTON
Seattle Standard Electric Sales

CALIFORNIA **Distributors**
Huntington Park Valvate-Associates
Los Angeles Electric Corp. of California
Warren & Bailey Co.
San Diego Industries Supply Co. of San Diego
Orbit Supply Co.
Warren & Bailey Co.
San Francisco Leighton Stone Corp.
Terco Equipment Co.

COLORADO
Denver Hendrie & Bolthoff Co.

OREGON
Portland Warren & Bailey Co.
(Harris Supply Div.)
Western Machinery Co.

UTAH
Salt Lake City Waterworks Equipment Co.

WASHINGTON
Seattle Steam Supply & Rubber Co.

Spokane Bitco, Inc.

BALDWIN-LIMA-HAMILTON CORP.
South Main Street
Lima, Ohio

CALIFORNIA **District Managers**
LaMirada, 14120 E. Rosecrans T. A. Griffin
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 Co.

ARIZONA
Phoenix Western Machinery Co.

Tucson Western Machinery Co.

CALIFORNIA
City of Industry Smith Booth Usher Co.

Eureka McGarahan Supply Co.

Oakland Bay Cities Equipment, Inc.

Redding Shasta Truck & Equipment Sales

San Jose Bay Cities Equipment, Inc.

COLORADO
Denver Faris-Moritz Equipment 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.

Seattle Evans Engine & Equipment Co.

Spokane Modern Machinery Co.

Distributors
PRODUCTS: Lima Austin-Western Crushing, Screen-
ing and Washing Equipment.

ARIZONA
Phoenix Western Machinery Co.

Tucson Western Machinery Co.

(Continued in next column)

Baldwin-Lima-Hamilton Corp.
(Cont'd)

CALIFORNIA
City of Industry 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 Seltz Machinery, Inc.

Great Falls Seltz Machinery, Inc.

NEVADA
Reno Graid Equipment Company

NEW MEXICO
Albuquerque N. C. Ribble 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 Com-
pactor.

ALASKA
Anchorage Evans Engine & Equipment Co.

ARIZONA
Phoenix Western Machinery Co.

Tucson Western Machinery Co.

CALIFORNIA
City of Industry 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.

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.

BARBER-GREENE CO.
400 N. Highland Avenue
Aurora, Illinois

PRODUCTS: Asphalt Mixing Plants; Permanent
and Portable Conveyors; Aggregate, Coal
and Snow Loader; Car Unloaders; Wheel
and Vertical Boom Dischargers.

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
Whittier, 1402 W. Hadley St. E. E. Caldwell
District Rep., Conveyor Sales

COLORADO
Denver, 1030 Russell Blvd. L. H. Gilbert
District Sales Manager

Distributors

ALASKA
(Seattle) The Carrington Co.

ARIZONA
Phoenix Road Machinery Co.

CALIFORNIA
Los Angeles Santa Fe Equipment Co., Inc.

San Francisco Coast Equipment Co.

COLORADO
Denver Booth-Rouse Equipment Co.

HAWAII
Honolulu Hawaiian Equipment Co., Ltd.

IDAHO
Boise Lang Construction Equipment Co.

MONTANA
Billings Western Construction Equip. Co.

NEVADA
Reno Pioneer Equipment Co.

NEW MEXICO
Albuquerque Contractors Equip. & Supply Co.

UTAH
Salt Lake City Lang Construction Equip. Co.

WASHINGTON
Seattle and Spokane The Carrington Company

WYOMING
Cheyenne Keremi Tractor & Equipment Co.

BARCO MANUFACTURING CO.
500-530 North Hough Street
Barrington, Illinois

PRODUCTS: Rammers for earth compaction; Port-
able Gasoline Hammers; Portable Gasoline
Rock Drills; Vibra-Tamp for granular soil
compaction and asphaltic paving.

Factory Representative
CALIFORNIA
Moraga, 2 Huff Court 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
Albuquerque Contractors Equip. & Supply Co.

(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

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, 101 Hegenberger Road
Wm. Stillwell, Manager

Factory Representatives
CALIFORNIA
Los Angeles, 1726 Maltman Avenue
Harold Feldstein

COLORADO
Englewood, 4701 S. Grant Robt. Atkinson

WASHINGTON
Seattle, 809A Terminal Sales Building
Wm. A. Matzke, Jr.

Distributors

ALASKA
Anchorage Northern Commercial Co.

ARIZONA
Phoenix O. S. Stapley Co.

Submersible Pump Co.

CALIFORNIA
Berkeley Central Equipment Co.

Clemco

Eureka Learner-Eureka, Inc.

G & R Metals Co.

Fresno Fresno Pump & Supply Co.

Allied Equip. Co.

Los Angeles Larson Equipment Co.

Oakland Barnes Mfg. Co.

Redding Lowry Equipment Co.

Sacramento Central Equipment Co.

IDAHO
Boise Western Equipment Co.

OREGON
Klamath Falls Moty & Van Dyke

Portland R. M. Wade & Co.

WASHINGTON
Seattle Star Machinery Co.

R. M. Wade & Co.

Spokane R. M. Wade & Co.

Wenatchee Tacoma Plumbing Supply Co.

Yakima Rankin Equipment Co.

*C.I.T.'s Engineered Finance Plans fit the needs of
contractors and distributors*

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 Jetties; Crushed Rock for Base and Filter Material; Concrete Aggregate for Ready Mix.

Distribution in northern California only

BAUGHMAN MANUFACTURING CO., INC.

900 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.

District Manager

CALIFORNIA
Riverside, 4905 Arlington Ave....Hugh Hudson

Distributors

ARIZONA
MaranaMarana Equipment, Inc.
PhoenixGuerin Implement Co.
Superior Equipment Co.
Western Machinery Co.

CALIFORNIA
Los AngelesEssick Machinery Co.
Hurt Conveyor Co.
ModestoHengst & Curran
OaklandMill Engineering & Machinery Co.
RiversideHudson Sales Co.
San LeandroFabricated Metals, Inc.

COLORADO
DenverEdward F. Taylor Machinery Co.
Western Machinery Co.
GreeleyEllis & Capp Equipment Co.

IDAHO
BoiseStarline Equipment Co.

OREGON
AmityBurlingham-Meeker Lime Co.
PortlandDouglas Hood Co.

UTAH
Salt Lake CityLund Machinery Co.
W. H. Pingree Co.

WASHINGTON
SeattleAir-Mac, Inc. of Washington
Temco, Inc.

WYOMING
CasperStuder Tractor & Equipment Co.

BAY CITY SHOVELS, INC.

Bay City, Michigan

PRODUCTS: Power Shovels and Cranes; Clamshell Hoes; Draglines.

Distributors

ARIZONA
PhoenixMin-A-Con Equipment Co.

CALIFORNIA
Los AngelesPneumatic Machinery Co.
San FranciscoRobinson Equipment Co.

COLORADO
DenverBooth-Rouse Equipment Co.

MONTANA
HelenaRock Hand & Co.

OREGON
PortlandFeenaughty Machinery Co.

UTAH
Salt Lake CityFoulger Equipment Co.

WASHINGTON
SeattleFeenaughty Machinery Co.
SpokaneFeenaughty Machinery Co.

BEATTY SCAFFOLD, INC.

Tunnel Avenue & Beatty Road
San Francisco, California

PRODUCTS: Scaffolds; Shores; Cranes.
(Continued in next column)

Beatty Scaffold, Inc. (Cont'd)

Distributors

ALASKA
AnchorageTaft Structural, Inc.

ARIZONA
PhoenixHaskell-Thomas Co.

NO. CALIFORNIA
SacramentoBeatty Scaffold Distributors
San FranciscoBeatty Scaffold, Inc.
San JoseBeatty Scaffold of San Jose

HAWAII
HonoluluIslands Welding & Supply Co., Ltd.

IDAHO
BoiseBeatty Scaffolds & Power Tool Co.

NEVADA
RenoBeatty Scaffolds of Nevada

OREGON
PortlandBeatty Scaffolds of Washington

WASHINGTON
SeattleBeatty Scaffolds of Washington

BEAVER-ADVANCE CORPORATION

P.O. Box 792
Ellwood City, Pennsylvania

PRODUCTS: Scaffold; Steel Shoring Scaffold; Post Shores; Painter Scaffold; Pipe and 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

Distributors

ALASKA
AnchorageChris Bernard

CALIFORNIA
GlendalePhetteplace Scaffolding Co.
W. SacramentoJomaco Scaffolding, Inc.

HAWAII
HonoluluHawaiian Dredging & Constr. Co., Ltd.
Islands Welding & Supply Co., Ltd.

IDAHO
BoiseCarl Burt Equipment Co.
Idaho FallsCarlson-Jacobsen Equipment Co.

OREGON
PortlandAllied Steel Scaffold Co.

WASHINGTON
SeattleNorthwest 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; Hydraulic Scraper Planes; Contractors' Drag Scrapers (cable or hydraulically controlled); Hydraulic Carrying Scrapers for wheel tractors.

Distributors

See your local tractor distributor.

BEHLEN MANUFACTURING CO.

Columbus, Nebraska

PRODUCTS: Buildings, prefabricated steel.

Distributors

Contact the manufacturer.

BETHLEHEM STEEL COMPANY

Pacific Coast Division
20th and Illinois Street
San Francisco 19, California

PRODUCTS: Drill Steel; Fasteners; Fabricated Structural Steel; Sheet Piling; Wire Rope; Rein-
(Continued in next column)

Bethlehem Steel Company (Cont'd)

forcing Steel; H-Piling.
Sales Offices

LOS ANGELES
6000 S. Boyle Ave.
Samuel B. FloraManager of Sales

PHOENIX
3404 N. Central Ave.
T. E. NeffResident Representative

PORTLAND
1010 S.W. 14th Ave.
L. S. KuhnManager of Sales

SALT LAKE CITY
455 E. 4th St.
L. B. GilletteResident Representative

SAN FRANCISCO
20th and Illinois
C. D. HoweManager of Sales

SEATTLE
3651 E. Marginal Way
J. G. White, Jr.Manager of Sales

SPOKANE
W. 725 Sprague St.
M. P. ShraugerResident Representative
Sales Representative

HONOLULU
State Savings & Loan Bldg.J. F. Moody

BILL JACK SCIENTIFIC INSTRUMENT CO.

143 South Cedros Avenue
Solana Beach, California

PRODUCTS: Electric Concrete Drills.

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; Tapguns and all accessories.

FACTORY PERSONNEL

CALIFORNIA
Los Angeles, 2432 S. Broadway
L. C. Kafer, Reg. Mgr.
R. E. Stone, Jr., Dist. Mgr.
R. A. Lomas, Branch Mgr.
Oakland, 1107 E. 14th St.
San Francisco, 4343 Third St.
P. A. Pounds, Dist. Mgr.
D. Morrison, Branch Mgr.

COLORADO
Denver, 1010 Bannock St.
A. R. Cooper, Dist. Mgr.
W. N. Freeman, Branch Mgr.

OREGON
Portland, 1640 N.W. Johnson..J. E. Gamache

WASHINGTON
Seattle, 434-8th Ave. N.
J. R. Anderson, Dist. Mgr.
J. Beaumont, Branch Mgr.
(For Alaska & Hawaii).....P. W. Lund
Spokane, N. 2706 Hemlock
R. L. Mortimer, Branch Mgr.

BLACKHAWK MANUFACTURING CO.

13320 West Reichert Place
Butler, Wisconsin

PRODUCTS: Geared Screw Jacks; Ratchet Screw Jacks; Ratchet Lowering Jacks; House-Raising Jacks; Trench Braces; Timber Braces; Shoring Jacks; Hydraulic Hand Jacks; Remote Control Jacks; Portable Hydraulic Cranes (dolly or truck-mountings); Hydraulic Gear and Wheel Pullers; Hydraulic Pumps, Cylinders and components; Pipe Benders; Knockout Punches; Rescue Equipment.

Territory Manager

CALIFORNIA
Glendora, 831 Bennett Ave. Bernie Robertson
Distributors in all principal cities.

BLAW-KNOX CO.

Construction Equipment Div.
300 Sixth Avenue
Pittsburgh 22, Pennsylvania

PRODUCTS: Subgraders; Concrete Spreaders; Con-
(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

Blaw-Knox Co. (Cont'd)
crete Finishing Machines; Vibrators and Tamping Attachments for Finishers and Spreaders; Truckmixers and Agitators; Batch Plants; Ready Mix Concrete Plants; Cement Storage Plants; Dual Drum Pavers; Bituminous Pavers; Trench Rollers; Base Pavers; Road Wideners; Road Forms; Airport Forms; Curb and Gutter Forms; Sidewalk Forms.

West Coast Sales Office and Warehouse
CALIFORNIA
Millbrae, 305 Adrian Rd. Bill Conway

Distributors
ALASKA
(Seattle) Evans Engine & Equipment Co.
ARIZONA
Phoenix O. S. Stapley Co.
CALIFORNIA
Los Angeles Shaw Sales & Service Co.
Oakland Sun Equipment Co.
San Diego Construction Machinery Co.
COLORADO
Denver Colorado Builders Supply Co.
 Macdonald Equipment Co.

IDAHO
Boise Intermountain Equipment Co.
MONTANA
Missoula Treasure State Equipment Co.
NEVADA
(Los Angeles) Shaw Sales & Service Co.
(Oakland) Sun Equipment Co.
NEW MEXICO
Albuquerque Lively Equipment Co.
OREGON
Portland Contractors Equipment Corp.
UTAH
Salt Lake City Foulger Equipment Co.
WASHINGTON
Seattle Hatten Machinery Co.
Spokane Inland Diesel Co.

BODINSON MANUFACTURING CO.
2401 Bayshore Boulevard
San Francisco 24, California

PRODUCTS: Rock and Gravel Plants; Asphalt Plants; Portable Rock Plants; Central Concrete Mixing Plants; Gold Recovery Plants; Automatic Weigh Batches; Steel Bins; Screens—Cylindrical, Conical and Vibrating; Feeders—Apron and Reciprocating; Structural Steel; Special Machinery; Steel Tanks and Pressure Vessels.

BRANICK MANUFACTURING CO., INC.
2600-3rd Avenue North
Fargo, North Dakota

PRODUCTS: Tire Handling Equipment; Tire Spreaders; Air Service Jacks; Truck Tire Changers; Truck Tire Removers; Curing Rims; Tire Rack Brackets; Three-way Air Valves; Safety Inflation Cage and Device; Earthmover Jack; Truck Jack; Automatic Tire Inspector; Knife Sharpener.

Distributors
ALASKA
(New York) Branick Mfg. Export Co.
ARIZONA
Phoenix Arizona Rubber Co.
 Phoenix Auto Supply Co.
Tucson Motor Supply Co.
CALIFORNIA
Lodi Super Mold Corp.
Los Angeles Balloon Tire Mould Co.
Oakland Bacon American Corp.
 Union Rubber Co.
Sacramento General Supply Co.
 Sacramento Wheel Service
San Diego San Diego Motor Parts
San Francisco Gurley-Lord Co.
COLORADO
Colorado Springs D. G. Hale
Denver Hendrie & Bolthoff
 The McGee Co.
Littleton O.K. Service Supply Co.
MONTANA
Billings Neil Vanderpas & Sons
Great Falls Valley Motor Supply Co.
Havre Valley Motor Supply Co.
NEVADA
Reno Nevada Auto Supply
 Rissone's

(Continued in next column)

Branick Mfg. Co., Inc. (Cont'd)
NEW MEXICO
Albuquerque Kohlhaas Tank & Equip. Co.
Las Cruces Cruces Motor Parts
Roswell Roswell Motor Supply Co.
OREGON
Portland Russ Chamberlin Co.
 Smiths Tire Repairs

UTAH
Salt Lake City Tire Shop Supply Co.
WASHINGTON
Seattle Automotive Parts & Equipment Co.
 Ballou & Wright
Spokane Pacific Sales Co.
Tacoma Motor Parts & Equipment Co.
WYOMING
Casper Casper Supply Co.

BRIGGS & STRATTON CORP.
2711 North 13th Street
Milwaukee 1, Wisconsin

PRODUCTS: Air-cooled and Gas Engines.
Regional Field Supervisors
CALIFORNIA
Los Alamitos, 11582 Wallingford Rd. W. E. Plutte
WASHINGTON (AND OREGON)
Bellevue, 2404-126th Ave., N.E. Edward Kopmeier

Distributors
ALASKA
Anchorage and Fairbanks B & C Auto Electric
ARIZONA
Phoenix Motor Supply Co.
CALIFORNIA
Los Angeles Electric Equipment Co.
San Francisco Frank Edwards Co.
COLORADO
Denver Spitzer Electric Co.
HAWAII
Honolulu Von-Ham Young Co., Ltd.
MONTANA
Billings Original Equipment Co.
NEW MEXICO
Albuquerque Spitzer Electric Co. of New Mex.
OREGON
Portland Tracey & Co.
UTAH
Salt Lake City Frank Edwards Co.
WASHINGTON
Seattle Charles Stewart, Inc.
Spokane Sunset Electric Co.

BRISCOE MANUFACTURERS OF CALIFORNIA
4129 N. Del Norte Avenue
Kerman 2, California

PRODUCTS: Ditchers; Tractor-Slopers; Grader-Slopers.

General Manager
CALIFORNIA
Kerman, 4341 N. Del Norte Ave. Mel Briscoe

Distributors
All Caterpillar Dealers.
BRODERICK & BASCOM ROPE CO.
4203 Union Boulevard
St. Louis 15, Missouri

PRODUCTS: Wire Rope; Wire Rope Slings; Wire Rope Clips.

Factory Branch
WASHINGTON
Seattle, 655 Edmunds St. T. Verhoef
Sales Offices and Warehouses
CALIFORNIA
Los Angeles, 3043 S. Tanager Ave. R. H. Boag
San Francisco, 44 Potrero Ave.
OREGON
Portland, 1518 N.W. Marshall St. H. E. Tucker

Distributors
ALASKA
(Seattle) Northern Commercial Co.
ARIZONA
Phoenix Empire Machinery Co.
(Continued in next column)

Broderick & Bascom Rope Co. (Cont'd)

CALIFORNIA
Colusa I. G. Zumwalt Co.
Fresno Contractors Equipment & Supply Co.
Redding Moty & Van Dyke
Sacramento Weaver Tractor Co.
San Diego Winn Supply Co.
San Francisco California Industrial Supply Co.
Stockton Holt Bros.
COLORADO
Denver Mine & Smelter Supply Co.
IDAHO
Boise Starline Equipment Co.
 Western Equipment Co.
Idaho Falls Western Equipment Co.
Lewiston Nez Perce Tractor & Equipment Co.
Pocatello Western Equipment Co.
Twin Falls Western Equipment Co.

MONTANA
Billings Nash-Davis Machinery Co.
 Seitz Machinery Co.
Bozeman Nash-Davis Machinery Co.
Glasgow Tractor & Equipment Co.
Helena Caird Engineering Works
Kilispell Westmont Tractor Co.
Miles City Tractor & Equipment Co.
Missoula Westmont Tractor Co.

OREGON
Baker Basche-Sage Hardware Co.
Bend Moty & Van Dyke, Inc.
Coquille Enlund Equipment Co.
Eugene Eugene Equipment Co.
Gold Beach Enlund Equipment 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.
Portland Wood Tractor Co.
Prineville Moty & Van Dyke, Inc.
Roseburg Industrial Supply 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 Greenshields 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 and Sacramento Blakemore Equip. 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 The 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.

C.I.T. Loans on Equipment Fleets increase contractors working capital funds

DAVID BROWN, INC.
 999 Beecher Street
 San Leandro, California

PRODUCTS: Speed Reducers and Gear Motors.

Sales Representatives
CALIFORNIA
 Maywood, 6025 Atlantic Blvd...R. B. Forslund
OREGON
 Portland, 1224 S.W. Morrison St...R. A. Baty

Distributors
ARIZONA
 Flagstaff...Semon Industrial & Weld. Supply Co.
 Glendale...Semon Industrial Supply Co.
 Phoenix...Semon Bearing & Supply Co.

CALIFORNIA
 Arcata...Industrial Electric Service Co., Inc.
 Crescent City...Industrial Electric Service Co., Inc.
 El Centro...Winn Supply Co., Inc.
 San Diego...Winn Supply Co.
 San Leandro...Monarch Corp., Supply Div.
 Santa Clara...Monarch Corporation

NEW MEXICO
 Albuquerque...Montezuma Bearing Co.

OREGON
 Portland...Berg Evans Chain Co., Inc.

UTAH
 Salt Lake City...Bearing Engineering Sales Co., Inc.

WASHINGTON
 Seattle...Berg Evans Chain Co., Inc.

BROWNING MANUFACTURING CO.
 111 Humble Ave., P.O. Box 2707
 San Antonio 6, Texas

PRODUCTS: Three-Wheel Rollers; Tandem Rollers; Self-propelled Pneumatic Tired Rollers; Heavy Duty Self-propelled Pneumatic Rollers; Sheepfoot Rollers; Rock-Busters; Spreader and Curb Machines.

Distributors
ARIZONA
 Phoenix...Min-A-Con Equipment Co.

CALIFORNIA
 Stockton...Action Equipment Co.

COLORADO
 Denver...Colorado Builders' Supply Co.

IDAHO
 Boise, Idaho Falls and Twin Falls...The Sawtooth Co.

NEVADA
 Reno...Graid Equipment Co.

OREGON
 Medford...Cal-Ore Machinery Co.

UTAH
 Salt Lake City...Archer Tractor & Machinery Co.

WASHINGTON
 Seattle...Western Tractor & Equipment Co.

Spokane...American Machine 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.

Northwest District Manager
WASHINGTON
 Seattle, 220 Holden St...Dick Davis

Factory Branch
WASHINGTON
 Yardley, 5311 E. Railroad Ave...Claude Thomas

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...Industrial Equipment Co.
 Western Construction & Equipment Co.
 (Continued in next column)

Brunner & Lay of Portland, Inc.
 (Cont'd)

 Butte...Butte Machinery Co.
 Hall-Perry Machinery Co.
 Great Falls...Hall-Perry Machinery Co.
 Helena...Monty Machinery Co.
 Helena...Caird Engineering Works
 Helena...Montana Powder & Equipment
 Missoula...Miller Machinery Co.

OREGON

 Coquille...Enlund Equipment Co.
 Coos Bay...Coos Bay Supply Co.
 Eugene...Loggers & Contractors Mch. Co.
 Klamath Falls...Cascade Industrial Supply Co.
 LaGrande...Klamath Powder & Equipment Co.
 Medford...Industrial Machinery & Supply Co.
 Medford...Cal-Ore Machinery Co.
 North Bend...Rogue Equipment Co.
 Portland...Oregon Pacific Co.
 Portland...Andersen Machinery Co.
 Portland...Andrews & Andrews Machinery Co.
 Portland...Balzer Machinery Co.
 Portland...Clyde Equipment Co.
 Portland...Contractors Equipment Co.
 Portland...Hamilton Engine Sales
 Portland...Interstate Tractor & Equipment Co.
 Portland...Lacey Supply Co.
 Portland...Loggers & Contractors Machinery Co.
 Portland...George M. Philpott Co.
 Portland...Rogers Machinery Co.
 Portland...Senter Tools Service
 Portland...Western Equipment Co.

 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.
 Everett...Industrial Supply Co.
 Everett...Everett Hardware Co.
 Seattle...Andrews Machinery Co.
 Seattle...A. H. Cox & Co.
 Seattle...N-C Machinery Co.
 Seattle...Northern Commercial Co.
 Seattle...Pacific Northwest Industries
 Seattle...Rental Machinery
 Seattle...Seattle Forging & Tool Works
 Seattle...Tool Crib
 Spokane...Andrews Equipment Service
 Spokane...Bitco, Inc.
 Spokane...Ferris Equipment Co.
 Spokane...Mid-Mountain Machinery Co.
 Spokane...Modern Machinery Co.
 Spokane...Western Machinery Co.
 Tacoma...St. Paul & Tacoma Lumber Co.

WYOMING

Rock Springs...Wortham Machinery Co.

BRUNNER & LAY—WESTERN, INC.
 2425 East 37th Street
 Los Angeles 58, California

PRODUCTS: Carbide Rok-Bits; Drill Steel; Moll Points; Clay Digger and Chipping Hammer Tools.

Factory Branch Managers
CALIFORNIA
 Sacramento, 7500 14th Ave...Wayne Banks
 San Francisco, 2266 Shafter...Vern Terry

Distributors
ARIZONA
 Flagstaff...Arizona Supply Co.
 Phoenix...Construction & Mining Supply Co.
 Phoenix...Equipment Sales Co.
 Phoenix...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.
 Fresno...Contractors Equipment & Supply
 George M. Philpott Co.
 Long Beach...Long Beach Welders Supply Co.
 Los Angeles...Cook Bros.
 Los Angeles...Crook Co.
 Los Angeles...Essick Manufacturing Co.
 Los Angeles...Mine & Mill Machinery Co.
 Los Angeles...Warnock Bancroft Equipment Co.
 Nevada City...Alpha Hardware Co.
 Redding...Paul Droscher Equipment Co.
 Redding...Lowry Equipment Co.
 Sacramento...Edward R. Bacon Co.
 Sacramento...Central Equipment Co.

(Continued in next column)

Brunner & Lay—Western, Inc.
 (Cont'd)

 George M. Philpott Co.
 Western Traction Co.
 San Bernardino...H. P. Kingsley Co.
 San Bernardino...W. K. Equipment Co.
 San Diego...Construction & Machinery Co.
 San Diego...Gould Hardware & Machinery Co.
 San Diego...Kenton Equipment Co.
 San Diego...Kroeger Equipment Co.
 San Diego...Standard Iron & Supply Co.
 San Francisco...Edward R. Bacon Co.
 San Francisco...Coast Equipment Co.
 San Francisco...George M. Philpott Co.
 San Francisco...Rix Co.
 San Francisco...Terry Tools
 Santa Ana...Western Traction Co.
 Santa Ana...Orange County Equipment Co.

NEVADA

 Elko...A & D Machinery Co.
 Las Vegas...Blystone Equipment Co.
 Las Vegas...Inland Service & Supply Co.
 Reno...Pioneer Equipment Co.
 Reno...Sierra Machinery Co.

BUCK EQUIPMENT CORP.

 720 Anderson Ferry Road, Box 31
 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.

Distributors
ARIZONA
 Phoenix Baker Thomas Lime & Cement Co., Inc.

CALIFORNIA
 Glendale...A. Palmer Scaffolding Co.
 Oakland...Ricker Machinery Co.

COLORADO
 Denver...King & East Machinery Co.

HAWAII
 Honolulu...Edward R. Bacon Co. of Hawaii, Ltd.

IDAHO
 Boise...Safway Scaffold & Power Tool Co.

MONTANA
 Great Falls...Monty Machinery Co.

NEVADA
 Reno...Sierra Machinery Co., Inc.

NEW MEXICO
 Albuquerque...Contractors Equip. & Supply Co.

OREGON
 Eugene...Safway Scaffolds Co. of Eugene

Portland...Safway Scaffold Co.

UTAH
 Salt Lake City...Lund Machinery Co.

WASHINGTON
 Seattle...Northwest Scaffold & Equip. Co., Inc.

WYOMING
 Casper...Wortham Machinery Co.
 Cheyenne...Keremi Tractor & Equipment Co.

BUCYRUS-ERIE CO.
 South Milwaukee, Wisconsin

PRODUCTS: Shovels; Cranes; Draglines; Hydrocranes; Hoes.

Factory Personnel
CALIFORNIA
 Los Angeles—Manager...E. R. Dauer
 San Francisco—Manager...J. H. Sackett

WASHINGTON
 Seattle—Manager...J. B. Stam

Distributors
ARIZONA
 Phoenix...Road Machinery Co.
 Tucson...Road Machinery Co.

CALIFORNIA
 Bakersfield...Crook Company
 Berkeley...West Coast Engine & Equip. Co.
 Los Angeles...Crook Company
 San Jose...West Coast Engine & Equip. 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.

(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

Bucyrus-Erie Co. (Cont'd)

OREGON	
Portland	Clyde Equipment Co.
UTAH	
Salt Lake City	Lang Construction Equipment Co.
WASHINGTON	
Seattle	Clyde Equipment Co.
	Northern Commercial Co.
Spokane	Intermountain Equipment Co.
WYOMING	
Casper	The Colorado Builders Supply Co.

BUFFALO-SPRINGFIELD CO.

1210 Kenton Street
Springfield, Ohio

PRODUCTS: Self-Propelled Steel Wheel Rollers (tandem, 3-axle tandem, 3-wheel); Self-Propelled Segmented Wheel Kompactors; Self-Propelled Vibrating 3-Axle Tandem Rollers; 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	Cook Bros. Truck & Equipment Co.
COLORADO	
Denver	Booth-Rouse Equipment Co.
HAWAII	
Honolulu	Honolulu Iron Works
IDAHO	
Boise	Intermountain Equipment Co.
MONTANA	
Helena	Steffeck Equipment Co.
NEVADA	
Reno	Sierra Machinery Co.
NEW MEXICO	
Albuquerque	Contractors Equip. & 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.

E. D. BULLARD CO.

2680 Bridgeway
Sausalito, California

PRODUCTS: Safety Head Protection; Safety Hoist Hooks; Insulated Safety Links; Tacco Steps; Mechanical Back-Up Alarms; Industrial First Aid.

District Managers

CALIFORNIA	
Los Angeles, 6719 S. Figueroa St.	E. J. Illes
Sausalito, 2680 Bridgeway	Norris Seastrom

Distributors

ALASKA	
Anchorage	Bashaw Equipment Co., Inc.
Fairbanks	Miller & Bentley-Bashaw Equip. Co.
ARIZONA	
Phoenix	Garrett Supply Co.
COLORADO	
Denver	Goodall Rubber Co.
HAWAII	
Hilo	Gaspro, Ltd.
Honolulu	Gaspro, Ltd.
IDAHO	
Boise	Intermountain Equipment Co.
NEW MEXICO	
Albuquerque	Central New Mexico Equip. Co.
OREGON	
Portland	Sanderson Safety Supply Co.
UTAH	
Salt Lake City	Goodall Rubber Co.
WASHINGTON	
Seattle	Safety & Supply Co.
Spokane	Safety & Supply Co.

THE BURCH CORPORATION

324 S. Thoman Street
Crestline, Ohio

PRODUCTS: Road Construction and Maintenance Equipment—Pavers, Road Wideners, Material Spreaders, Maintainers, Undertruck Scrapers, Snow Plows and Ice Control Equipment.

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.
MONTANA	
Butte	Hall-Perry Machinery Co.
NEVADA	
Reno	Roeder Equipment Co.
OREGON	
Portland	Rudy Yost Truck Equipment
UTAH	
Salt Lake City	Arnold Machinery Co.
WASHINGTON	
Seattle	Sahlberg Equipment Co.
Spokane	Modern Machinery 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	
Boise	Lang Construction Equipment Co.
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 Equip. Co.
WASHINGTON	
Seattle	Air-Mac, Inc.
Spokane	Ferris Equipment Co.
WYOMING	
(Butte)	Pioneer Equipment & Supply Co.
Cheyenne	Wortham Machinery Co.

BUTLER MANUFACTURING CO.

7400 East 13th Street
Kansas City, Missouri

PRODUCTS: Conveyors, belt and bucket; Steel, reinforcing and structural; Steel Buildings; Dry Granular Tanks; Tank Trailers.

District Manager

CALIFORNIA	
South Gate, 4014 Firestone Blvd.	G. R. Umble

Factory Branch Manager

CALIFORNIA	
Richmond, 2710 Butler Ave.	A. A. Hammons

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, (Continued in next column)

A. M. Byers Co. (Cont'd)

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 Offices

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; Triplex 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-Bemis Industrial Equip. 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.
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

Factory Branch Managers

CALIFORNIA	
Alvarado	G. J. Campbell, III
Los Angeles, 2960 Leonis Blvd.	Herman Froelich
OREGON	
Portland, 3085 N.W. 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.

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 and International Harvester.

C.I.T.'s Pay-As-You-Depreciate Plan provides long term financing for equipment purchases

CAREW STEEL CO.

Industrial Highway
York, Pennsylvania

PRODUCTS: Standardized Steel Buildings.

Distributors
Contact manufacturer.

THE PHILIP CAREY MFG. CO.

Cincinnati 15, Ohio

PRODUCTS: Pipeline Felt and Padding; Pipeline Wrapping Materials; Highway Expansion Joints and Sealing Compounds; Sewer Joint Sealers.

District Managers

CALIFORNIA
Los Angeles, 1760 E. 15th St., R. D. Williams
San Francisco, 101 Williams St., R. D. Williams

WASHINGTON
Seattle, 505 Dexter Horton Bldg., O. E. Keller
Distributed in major cities throughout the West.

RALPH B. CARTER CO.

192 Atlantic Street
Hackensack, New Jersey

PRODUCTS: Pumps—Self-priming Centrifugal, Diaphragm, Pressure, Jetting and Irrigation; Gasoline, Diesel, Power Takeoff and Electric Driven.

Factory Branch

CALIFORNIA
San Francisco, 582 Sixth St., Frank DeWolf

Factory Representatives

CALIFORNIA
Pomona, 2123 Kellogg Park Drive
Robt. J. Sedgwick

Distributors

ALASKA
Anchorage, Western Tractor & Equipment Co.
ARIZONA
Phoenix, Arizona Cedar Rapids Co.

CALIFORNIA
Balboa, 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.

IDAHO
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.

Westco Pump Sales Co.

San Francisco, Westco Pump Sales Co.

(Continued in next column)

Carver Pump Co. (Cont'd)

COLORADO
Denver, Denver Air Machinery Co.
Pueblo, Bernstein Brothers

MONTANA
Billings, Seltz Machinery Co.
Havre, O. B. Lund Co.

UTAH
Salt Lake City, Foulger Equipment Co.

J. I. CASE CO.

700 State Street
Racine, Wisconsin

PRODUCTS: Crawler and Wheel Tractors, gasoline and diesel; Highway Mowers (sickle and rotary); Power-angling and Power-tilting Dozers; Tractor-Shovels; Unit Loaders; Crawler and Wheel-Mounted Fork Lifts.

Factory Branch Managers

CALIFORNIA
Oakland—P. O. Box 4665, Bayshore Annex Station (Calif., Nev., Ida., Utah, Ariz.)

V. O. Strom

OREGON
Portland—1709 S.E. 3rd Ave., P. E. Wickwire (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.

Tucson, Parkhill-Murray Equipment Co., Inc.

CALIFORNIA
Anaheim, Orange County Tractor Co.

Arcaata, Loggers & Mill Supply Co.

Bakersfield, L. F. Freeborn

El Cajon, K. C. Y. Tractor Co., Ltd.

Redding, Paul Droscher Sales

Sacramento, New Island Equipment Co.

San Francisco, Contractors Machinery Co.

San Jose, B. & V. Tractor Co.

Santa Barbara, Milpas Rental Service

Santa Rosa, Senger Farm Supply

South Gate, Gilmore & Wilcox

Watsonville, Howes Tractor & Equipment

COLORADO
Denver, Constructors Equipment Co., Inc.

Grand Junction, United Equipment Co., Inc.

Trinidad, Barney's Garage & Implement Co.

IDAHO
Lewiston, Clearwater Tractor & Machinery, Inc.

Pocatello, Flaherty Mfg., Inc.

NEW MEXICO
Albuquerque, Construction Machinery Co.

OREGON
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.

UTAH
Salt Lake City, Tractor Center, Inc.

WASHINGTON
Bellingham, Industrial Supply Co.

Chehalis, Graham Implement Co.

Montesano, Graham Implement Co.

Oakesdale, Fairies Equipment Co.

Seattle, Yukon Equipment Co.

Seattle, Tool Crib Sales, Inc.

Spokane, Corbit Equipment Co., Inc.

Yakima, Intervally Equipment Co.

Western Parts Depot

CALIFORNIA
Los Angeles

San Leandro

COLORADO
Denver

(Continued in next column)

Caterpillar Tractor Co. (Cont'd)

WASHINGTON
Spokane

Distributors

ALASKA
(Seattle), Northern Commercial Co.

Branches at Anchorage, Fairbanks, Juneau, Ketchikan and Nome

ARIZONA
Phoenix, Empire Machinery Co.

Branches at Flagstaff and Tucson

Yuma, Braden Machinery Co.

Branch at Wellton

CALIFORNIA
Blythe, Honnen 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, Walnut Grove, Woodland

Salinas, Pringle Tractor Co.

Branches at King City, Watsonville

San Diego, Hawthorne Machinery Co.

San Leandro, Peterson Tractor & Equip. 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

HAWAII
Honolulu, Oahu, Theo. H. Davies & Co., Ltd.

Branches at Hilo, Kahului, Lihue

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

NEVADA
Las Vegas, Cashman Equipment Co.

Reno, Crooks Bros. Tractor Co.

Branch at Elko

NEW MEXICO
Albuquerque, R. L. Harrison Co., Inc.

Hobbs, Hoag Tractor Co.

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

Portland, Halton Tractor Co.

Branches at Astoria, Salem, Longview (Wash.)

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

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
Northern Life Tower, Seattle

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

MAIN 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, Spreaders and Finishers; Porto Plants; Combination Finisher-Floats; Longitudinal Floats; Spray Curing Machines; Road-Airport-Sidewalk-Curb and Gutter Forms; Single Rail Material Transporter; Concrete Pumping Machines; De-watering Pumps; Sectionalized Belt Conveyors; Spanall Shoring; Building Mixers; Tilt-up Mixers.

District Managers
CALIFORNIA
Los Angeles
7601 Telegraph Rd. R. G. Kuhnmuensch
San Francisco, 444 8th St. A. E. Schmidt
COLORADO
Denver, 621 17th St. J. L. Jarboe

Distributors
ALASKA
(Seattle) Northern Commercial Co.
ARIZONA
Phoenix Road Machinery Co.
Tucson Road Machinery Co.
CALIFORNIA
Los Angeles Cal-Rex Machinery Sales
San Francisco Coast Equipment Co.
COLORADO
Denver Booth-Rouse Equipment Co.
HAWAII
Honolulu U. S. I. International
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 Equip. & Supply Co.
OREGON
Eugene Loggers & Contractors Mchy. Co.
Portland Loggers & Contractors Mchy. Co.
UTAH
Salt Lake City Arnold Machinery Co.
Parker Equipment Co.
WASHINGTON
Seattle Air-Mac, Inc.
Spokane Intermountain Equipment Co.
WYOMING
Casper Keremi Tractor & Equipment Co.
Cheyenne Keremi Tractor & Equipment Co.

CHESTER PRODUCTS, INC.
Belle Avenue and B. & O. R. R.
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.

Distributors
Contact the Manufacturer.

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. B. N. White
(Continued in next column)

Chevrolet Motor Division, General Motors Corporation (Cont'd)
Oakland R. H. McCormick
10910 E. 14th St., Box 1439

COLORADO
Denver, 301 S. Cherokee St., Box 5530
OREGON
Portland, 3100 N.W. 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
UTAH
Salt Lake City, 550 W. 17th St. J. G. Daniels
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 E. K. Hubbard

Distributors
ALASKA
Anchorage Evans Engine & Equipment Co., Inc.
ARIZONA
Phoenix Lee Redman Equipment Co.
Tucson Parkhill-Murray Equipment Co., Inc.
CALIFORNIA
Eureka Coastwise Industrial Co.
Fresno Contractors Equipment & Supply Co.
Los Angeles Cook Bros. Construction Mchy. Co.
Oakland Cook Bros. Truck & Equipment Co.
Redding Paul Droscher Sales
San Diego Construction Machinery Co., Inc.
Santa Ana Orange County Equipment Co.
Fincham Equipment Co.
Stockton Action Equipment Co.
COLORADO
Denver Edw. F. Taylor Co.
Grand Junction United Equipment Co.
HAWAII
Honolulu Honolulu Iron Works
IDAHO
Boise Arnold Machinery Co.
Idaho Falls Arnold Machinery Co.
MONTANA
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 Equip. Co. of Nevada, Inc.
NEW MEXICO
Albuquerque N. C. Ribble Co.
Grants Machinery Services, Inc.
Roswell Smith Machinery Co., Inc.
OREGON
Eugene Interstate Tractor & Equipment Co.
Medford Cal-Ore Machinery Co., Inc.
Portland Interstate Tractor & Equipment Co.
(Continued in next column)

Chicago Pneumatic Tool Co. (Cont'd)
UTAH
Salt Lake City Arnold Machinery Co.
WASHINGTON
Ephrata Gallaway Sales & Service
Seattle Evans Engine & Equipment Co.
Spokane Andrews Equipment Service of Wash.
WYOMING
Casper Studer Tractor & Equipment Co.

CHIKSAN COMPANY
330 N. Pomona Avenue
Brea, California

PRODUCTS: Joints (swivel or swing).

Factory Branches
CALIFORNIA
Brea—Sales Representative Robert T. Jones
Oakland—District Manager H. Stock

Distributors
ARIZONA
Phoenix Cone & Wallace Co.
COLORADO
Aurora Well Equipment Mfg. Corp.
HAWAII
Honolulu Chapson Bros., Ltd.
OREGON
Portland Henry Kalz Co.
UTAH
Salt Lake City Lang Construction Equip. 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.
San Francisco Coast Equipment Co.
COLORADO
Denver Booth-Rouse Equipment Co.
HAWAII
Honolulu Hawaiian Equipment Co.
IDAHO (SO.)
Boise Lang Construction Equipment Co.
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.
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.
CALIFORNIA
Bakersfield Wilson Engine & Equipment Co.
Berkeley West Coast Motors
Fresno Crockett Brothers
Huntington Park Angelus Engine Sales
Marysville Williams Motors
Oxnard Power Tractor Co.
(Continued on next page)

*C.I.T.'s Engineered Finance Plans fit the needs of
contractors and distributors*

Chrysler Marine & Industrial Engine Div. (Cont'd)

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.
Livingston	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 Rod; Bare Copper Wire; Galvanized Steel Strip; Flexible Steel Conduit; Electric Metallic Tubing; Armored Cables; Lead Sheathed Cables; Non-Metallic Sheathed Cables; Neoprene-Sheathed Cables; Rubber-Insulated and Thermoplastic-Insulated Building Wires & Cables; Varnished Cloth Cables with braided covering; Lead Sheath or Interlocked Armor; Underground, Direct Burial and Weatherproof Wires & Cables; Service Cables; High and Low Voltage Power Cable; Mining Cable; Shipboard Cable; Street, Parkway & Airport Light Cables.

Distributors

CALIFORNIA (So. Calif., Ariz., So. Nevada)	
Los Angeles	Elkins Electric Agency
CALIFORNIA (No. Calif., No. Nevada)	
San Francisco	Brill Electric Sales
COLORADO (and Wyoming)	
Denver	Sales Engineers
NEW MEXICO	
Albuquerque	Sales Engineers
UTAH	
Salt Lake City	Sales Engineers
WASHINGTON (Idaho, Montana and Oregon)	
Seattle	Electric Agencies

CLARK EQUIPMENT CO.

Automotive Division
324 E. Dewey Avenue
Buchanan, Michigan

PRODUCTS: Axle Housing; Trailer and Tandem Axles; Transmissions; Torque Converters; Final Drive Assemblies; Air Suspensions; Gears and Forgings.

Distributors

CALIFORNIA (So. California, Arizona)	
Long Beach	Everett H. York
COLORADO (Colorado, Utah, Wyoming)	
Denver	F. C. Walz
OREGON (No. Calif., Idaho, Nevada, Ore., Wash.)	
Portland	H. C. McKay Co.

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. Nystrom

District Representatives

NO. CALIFORNIA (NEVADA)	
Los Altos, 23530 Oakridge	C. E. Zerner
SO. CALIFORNIA (HAWAII)	
Manhattan Beach, 645 17th St.	D. W. Pedley
COLORADO (MONTANA, NEW MEXICO, UTAH, WYOMING)	
Denver, 850 Winfield	John Allsup
WASHINGTON (ALASKA, OREGON, UTAH)	
Seattle, 2436 42nd N.	John Halloran

(Continued in next column)

Clark Equipment Co. (Cont'd)**Distributors**

ALASKA	
Anchorage	Bashaw Equipment Co.
ARIZONA	
Phoenix	Western Machinery Co.
CALIFORNIA	
City of Industry	Smith Booth Usher Co.
Oakland	Buran Equipment Co.
Santa Clara	Buran Equipment Co.
COLORADO	
Denver	Western Machinery Co.
Grand Junction	Western Machinery Co.
HAWAII	
Honolulu	U.S. Industries, Inc.
IDAHO	
Boise	Sawtooth Co.
Twin Falls	Sawtooth Co.
MONTANA	
Billings	Miller Machinery Co.
Missoula	Miller Machinery Co.
NEVADA	
Reno	Grand 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.
	Western Machinery Co.
WYOMING	
Casper	Moss Equipment & Supply Co.

CLARK INDUSTRIES

Constructoin Equipment Division
375 East Fifth Avenue
Columbus 1, Ohio

PRODUCTS: Steel Paving Forms—road, airport, curb and gutter, sidewalk; Blins and Batching Equipment—erators, belt conveyors, bucket conveyors, gates.

Manufacturing Representative

CALIFORNIA
LaVerne, 2073 Peyton Rd. 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	
City of Industry	Smith Booth Usher Co.
Fresno	Edward R. Bacon 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	McCaffrey-Way Mats. & Sup. Co.
OREGON	
Portland	Andrews & Andrews Equipment Co.
UTAH	
Salt Lake City	Western Machinery Co.
WASHINGTON	
Seattle	A. H. Cox & Co.
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: Power Screeds; Power Screed Conveyors; Finishers.

Northwestern Representative

WASHINGTON
Seattle, 4614-8th Ave., N.W. Lewis E. Langdon
(Continued in next column)

Clary Manufacturing Co. (Cont'd)**Distributors**

ARIZONA	
Phoenix	Thos. W. Kennedy Machinery Co., Inc.
CALIFORNIA	
San Francisco	Edward R. Bacon Co.
HAWAII	
Honolulu	Edw. R. Bacon Co. of Hawaii, Ltd.
MONTANA	
Billings	Hall-Perry Machinery Co.
NEVADA	
Reno	Reno Equipment Sales Co.
OREGON	
Portland	A & W Equipment Co.
WASHINGTON	
Seattle	Caldwell Machinery Co., Inc.

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; Water Softeners.

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. Hissom
San Gabriel, 356 Alshamere Terrace	R. C. Welch
Sunnyvale, 1580 Samedra	J. C. Derus
COLORADO	
Denver, 2963 S. Meade St.	S. F. Buscarello
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. Hum

Representative

ARIZONA
Phoenix, 1636 N. 26th Pl. H. M. Craig

Distributors

ALASKA	
Anchorage	Northern Commercial Co.
CALIFORNIA	
City of Industry	Smith Booth Usher Co.
Los Angeles	Garlinghouse, Fremont & 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	
Billings	Seitz Distributing Co.
Haure	Motor Parts Warehouse
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.
Spokane	Inland Diesel & Machinery Co.
	Washington Machinery Co.
WYOMING	
	Wyoming Automotive Co.
Casper	Moss Equipment & Supply 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; Hoisting Equipment; Asphalt Carriers.

(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

Leasby-Wittig Co., Inc. (Cont'd)

Factory Branch

CALIFORNIA
Redwood City...Ker-O-Kil Manufacturing Co.
2701 El Camino Real.....H. Slocum

CLEAVER-BROOKS CO.

**326 E. Keefe Avenue
Milwaukee 12, Wisconsin**

PRODUCTS: Boilers; Oil Heaters.

Regional Manager

CALIFORNIA
Redwood City, 3677 Farm Hill Blvd.
William B. Stoehr
(Covers Arizona, California, Montana, Oregon,
Utah and Washington)

Distributors

ALASKA
Anchorage.....The Carrington Co.
Fairbanks.....The Carrington Co.
ARIZONA
Phoenix.....Arizona Cedar Rapids Co.
CALIFORNIA
Los Angeles.....Calaver 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.
UTAH
Salt Lake City.....Kimball Equipment Co.
WYOMING
Casper.....Studer Tractor & Equipment Co.

**CLEAVER-BROOKS SPECIAL
PRODUCTS CO.**

**225 Grand Avenue
Waukesha, Wisconsin**

PRODUCTS: Boilers; Bituminous Boosters; Hot Oil Heaters.

Distributors

See listing under Cleaver-Brooks Company.

CLEMENT-BRASWELL, INC.

**Sibley Road, P.O. Box 207
Minden, Louisiana**

PRODUCTS: Hydraulic and Cable Dump Trailers.

Distributors

CALIFORNIA
Altadena.....George Webber
COLORADO
Denver.....Timpote Bros.
NEW MEXICO
Albuquerque.....Timpote Bros.
OREGON
Portland.....Schetky Equipment Corp.

CLEVELAND FORMGRADER CO.

**34250 Mills Road
Avon, Ohio**

PRODUCTS: Formgraders; Form Tampers; Scratch Templates; Trailgraders; Strike-Offs; Sub-grade Scrapers; Steel and Aluminum Straight Edges; Finishing Bridges; Floats; Pin Pullers.

Distributors

ARIZONA
Phoenix.....Western Machinery Co.
CALIFORNIA
City of Industry.....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.....Air-Mac, Inc. of Oregon
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.....Hatten Machinery Co.
Star Machinery Co.
Washington Machinery Co.
Charles R. Watts Co.
Spokane.....Star Machinery Co.

WYOMING

Cheyenne.....Wilson Equipment & Supply Co.

THE CLEVELAND TRENCHER CO.

**20100 St. Clair Avenue
Cleveland 17, Ohio**

PRODUCTS: Trenching Machines; Tampers; Side-crane; Backfillers.

Representative

CALIFORNIA
Fresno, 1551 Geraldine Way.....John N. McLeod

Distributors

ARIZONA
Phoenix.....Western Machinery Co.
CALIFORNIA
City of Industry.....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. Metesser

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;
(Continued in next column)

Clipper Manufacturing Co. (Cont'd)

Hot Pour Joint Sealers; Cold-Applied Joint Sealers for highway and airfield construction; Diamond Core Bits; Core Drilling Machines.

Factory Branch Managers

CALIFORNIA
Los Angeles, 440 Seaton St.....Bob Stubbs
San Francisco, 885 Bryant St.....Bob Stubbs
COLORADO
Denver, 5075 Colorado Blvd.....Pat Burgoon

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 Co.
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: Hoists; Derricks; Car Pullers; Builders Towers; Rollers; Whirley Cranes; Whirlettes; Whirlers; Bulk Unloaders.

Distributors

ALASKA
Anchorage.....Bashaw Equipment Co.
Fairbanks.....Bashaw Equipment Co.
Miller & Bentley
ARIZONA
Phoenix.....Copper State Tractor 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.
HAWAII
Honolulu.....Hawaiian Equipment Co., Ltd.
IDAHO
Boise.....Intermountain Equipment Co.
MONTANA
Billings.....Western Construction Equipment Co.
Great Falls.....Western Construction Equipment Co.
NEW MEXICO
Albuquerque.....The Cornelius Co.
OREGON
Portland.....Clyde Equipment Co.
UTAH
Salt Lake City.....Mine & Smelter Supply Co.
WASHINGTON
Seattle.....Clyde Equipment Co.
Spokane.....Intermountain Equipment Co.

COAST MFG. & SUPPLY CO.

**Box 71
Livermore, California**

PRODUCTS: Safety Fuses; Primacord; Splitter-cord and Accessories.

Distributed through manufacturers of explosives and their distributors.

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
(Continued on next page)

**C.I.T. Loans on Equipment Fleets increase contractors
working capital funds**

Coffing Hoist Division (Cont'd)

Gear Hoists; "Hoist-Alls"; "Mighty Midget Pullers"; Utility Maintenance Tools; Load Binders; Air Hoists.

District Sales Managers

CALIFORNIA
San Francisco, 1016 Howard St. A. M. Kelly
COLORADO
Denver, 842 S. York St. F. R. Elsner
OREGON
Portland, 9823 S. W. 2nd Ave. Tom B. Petersen

Agent

NEW MEXICO
Albuquerque—Austin-Pruden Co. J. G. Austin
615 Virginia Ave., S. E.

Distributors

IDAHO
Boise Intermountain Equipment Co.
NEVADA
Reno Sierra Industrial Co., Inc.
OREGON
Eugene Munnell & Sherrill, Inc.
Portland A. W. Davis Supply Co.
The General Tool Co.
WASHINGTON
Seattle B. J. Equipment Co.
Charles H. Harden & Co.
Spokane Intermountain Equipment Co.
Jensen-Byrd Co.

COLBY STEEL & MANUFACTURING, INC.

65 Horton Street
Seattle 1, Washington

PRODUCTS: Custom Engineered Bridge, Gantry, Hammerhead, Luffing Boom, and Double Cantilever Cranes; Hydraulic and Electric Level-Luffing Shipboard Type Cargo Handling Cranes; Grab Bucket Unloaders; Marine Elevators; Automobile and Passenger Ramps.

COLORADO FUEL & IRON CORP.

Continental Oil Building
Denver, Colorado
Wickwire Spencer Steel Div.
Palmer, Massachusetts

PRODUCTS: Clinton Welded Wire Fabrics; 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
Los Angeles—District Sales Manager, Wire Rope G. D. Hagler
Oakland—General Manager of Sales J. T. Brittain
San Francisco—District Sales Manager F. W. Hansen
San Leandro—District Sales Manager C. W. Moore, Jr.
San Leandro—District Sales Manager, Wire Rope R. G. Huntress
COLORADO
Denver—District Sales Manager T. W. Wahrlich
Grand Junction—Ass't. District Sales Manager A. F. Corbetta
Pueblo—District Sales Manager Harold Eyer
IDAHO
Boise—Ass't. District Sales Mgr. K. L. Welling
MONTANA
Billings—District Sales Manager W. B. Andrews
Butte—District Sales Rep. N. H. Nordby
NEW MEXICO
Albuquerque—District Sales Manager C. O. Smith
Farmington—Sales Representative L. L. Johnson
Farmington—Sales Representative, Wire Rope C. W. Odneal
OREGON
Portland—District Sales Manager C. L. Yon
Portland—N.W. District Sales Manager, Wickwire Rope G. H. Taggard, Jr.
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
(Continued in next column)

Colorado Fuel & Iron Corp. (Cont'd)

UTAH
Salt Lake City—Manager of Sales, Northwestern Division J. A. Bole
WASHINGTON
Seattle—District Sales Manager G. J. Skarich
Spokane—District Sales Manager B. F. Rivers

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.
Imperial Hardware Co.
Somerton Complete Industrial Supply Co.
Tucson Industrial Tool & Supply Co., Inc.
F. Ronstadt
Yuma Imperial Hardware Co.
CALIFORNIA
Arcata Reliable Hardware Co.
Bakersfield Davies Machinery Co.
Howard Supply Co.
Blythe O-B-S Equipment, Inc.
Blythe, Brawley, Calexico, El Centro, Holtville and Indio Imperial Hardware Co.
Hay 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
LaPuente Willis B. Kyle, Inc.
Cordage Supply Co.
Long Beach Howard Supply Co.
Los Angeles A. M. Castle Co.
Harper & Reynolds Corp.
The Howard Supply Co.
International Wire & Cable Corp.
Oakland Rutherford & Skoubye Steel Co.
Viking Supply Co.
Oro Grande Oro Grande Farm Implement Co.
Redding Cascade Industrial Supply Co.
Sacramento Capitol Machine & Welding Works, Inc.
Pittsburgh Des Moines Steel Co.
San Diego Contractors Service Division
San Francisco Bell Rigging Supply
A. M. Castle & Co.
San Jose Pacific Hardware & Steel Co.
San Leandro Peterson Tractor & Equipment Co.
San Luis Obispo Farmers Hardware & Equip. Co.
San Pedro Seaside Supply Stores
Santa Maria Howard Supply Co.
Santa Rosa Reliable Hardware & Steel Co.
Sonora Tuolumne Foundry & Machine Co.
Stockton Pittsburgh Des Moines Steel Co.
Taft Howard Supply Co.
Ukiah Reliable Mill Supply Co.
COLORADO
Artesia Uintah Gas & Equipment Co.
Colorado Springs Western Iron Metal & Mch. Co.
Cortez Iverson Sup. Co.
Denver Franklin Supply Co.
Houston Oil Field Material Co.
Iverson Supply Co.
T. C. Koogle & Son
MacDonald Equipment Co.
Mountain Iron & Supply Co.
Plant Equipment Co.
Union Supply Co.
Durango Telluride Iron Works
Fort Collins Valley Steel & Wire Co.
Fort Morgan Allison Meller Supply Co.
Franklin Supply Co.
Grand Junction MacDonald Equipment Co.
Mayhew Machine & Supply Co.
Salt Lake Hardware Co.
Loveland Western States Supply Co.
Pueblo Colorado Road Machine Co.
Mutual Machinery Co.
S. W. Pressey & Son
Springfield Jett Hardware Supply Co., Inc.
Sterling Hargus Rental Supply Co.
Uravan 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.
Great Northern Tool & Supply Co.
Power Transmission Equipment Co.
Western Builders Supply Co.
Bozeman Montana Logging Supply Co.
Butte Butte Machinery Co.
Pioneer Equipment Co.
(Continued in next column)

Colorado Fuel & Iron Corp. (Cont'd)

Cut Bank Great Northern Tool & Supply Co.
Great Falls Central Machinery Co.
Havre Central Machinery Co.
Helena Caird Engineering Works
Kalispell Treasure State Equipment Co.
Kevin Great Northern Tool & Supply Co.
Lewiston Central Machinery Co.
Missoula Treasure State Equipment Co.
Sidney Mayhew Machine & Supply Co.

NEVADA
Elko A-D Machinery Co.
Las Vegas A-D Machinery Co.
James Cashman Co.
Lincoln Welding Works
Pioneer Equipment Co.
Reno

NEW MEXICO
Albuquerque The Cornelius Co.
Turner Drillers Supply Co.
Artesia Allied Supply Co.
Iverson Supply Co.
Cimarron Cimarron Mercantile Co.
Beacon Supply Co.
Farmington Franklin Supply Co.
Houston Oil Field Material Co.
Iverson Supply Co.
Mayhew Supply Co.
Grants Ambrosia Supply Co.
Plateau Hardware Co.
Santa Fe Santa Fe Builders Supply Co.
Silver City E. Cosgrove, Inc.

OREGON
Baker Commercial Welding Co., Inc.
Brookings Reliable Hardware Co.
Klamath Falls Cascade Industrial Supply Co.
Portland A. W. Davis Supply Co.
Feenaughty Machinery Co.
Gilmore Steel & Supply Co.
Union Supply Co.
Reedsport Reedsport Logging & Supply Co.

UTAH
Moab Plateau Hardware Co.
Salt Lake City Archer Tractor & Machinery Co.
Atlas Equipment Co.
Salt Lake Hardware Co.
Springville Utah Service, Inc.

WASHINGTON
Chehalis W. J. Graham Implement Co.
Colville Cole Motors
Ellensburg J. & B. Tractor & Equipment Co., Inc.
Forks Ulin Maintenance & Supply Co.
Lynwood Morrison's Silver Horde Fishing Gear
Olympia Olympia Supply Co.
Port Angeles Ulin Maintenance & Supply Co.
Seattle A. M. Castle & Co.
Feenaughty Machinery Co.
Fray Equipment Co.
Marine & Industrial Supply Co.
Schwabacher Hardware Co.
Seattle Marine & Fishing Supply Co.
Spokane Broadway Splicing Shop
Feenaughty Machinery Co.
Modern Machinery Co.
Tacoma Paramount Supply Co.
Walla Walla Morrison Supply Co.

WYOMING
Casper Franklin Supply Co.
Great Northern Tool & Supply Co.
Houston Oil Field Material Co.
Industrial Distributors, Inc.
Mayhew Machine & Supply Co.
Worldand Worldand Machine Co.

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 Aikens Tractor Co.
Fresno Allied Equipment Co.
Pittsburgh Des Moines Steel Co.
Los Angeles Brown-Bevis Industrial Eqpt. Co.
Crook Co.

Electric Steel Foundry Co.
Shaw Sales & Service Co.
Oakland Bay Cities Equipment, Inc.
Burau 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.
(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

Colorado Fuel & Iron Corp. (Cont'd)

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 Cornelius Co.
Lively Equipment Co.
Las Cruces The Myers Co.
Silver City E. Cosgrove, Inc.

OREGON
Klamath Falls Cascade Industrial Supply Co.
Medford Cal-Ore Machinery Co., Inc.
Portland 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.
Spokane Electric Steel Foundry Co.
Modern Machinery Co., Inc.

WYOMING
Casper Moss Equipment & Supply Co.
Studer Tractor Equipment Co.
Cheyenne Keremi Tractor & Equipment Co.

**COLUMBIA-GENEVA STEEL DIV.
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.
CALIFORNIA
Los Angeles, 2087 E. Slauson Ave., F. S. Howard
Sacramento, Builders Exchange, Box 1462
San Francisco, 120 Montgomery St., R. H. Madden
Stockton, 1521 W. Oak St.

IDAHO
Boise, 715 Grove St.
OREGON
Portland, 2345 N.W. Nicolai J. W. Rimmer
UTAH
Salt Lake City, Walker Bank Bldg. A. Walker
WASHINGTON
Seattle, Tower Bldg.,
7th Ave. & Olive Way M. H. Freedman
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 Arizona Hardware Co.
CALIFORNIA
Avenal 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.
Long Beach National Supply Co.
Oil Well Supply Co.

(Continued in next column)

Columbia-Geneva Steel Div., United States Steel Corp. (Cont'd)

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 Eqp't. & 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.
Fisheries Supply Co.
Lines, Inc.
Tacoma Hunt & Mottet Co.
Yakima Yakima Hardware Co.

For names and addresses of distributors of all other products, contact your local Columbia-Geneva District Office.

COLUMBIA STEEL CASTING CO., INC.

923 N. W. Johnson
Portland, Oregon

PRODUCTS: Replacement parts for crushers—Jaw, Roll, Gyratory, Cone, Hammermill. Replacement parts for tractors—Track shoes, Sprocket rims, End bits, Blades. Replacement parts for buckets and shovels—Bucket teeth, Crawler shovel pads.

COMET MANUFACTURING CO.

2033 Santa Fe Avenue
Los Angeles 21, California

PRODUCTS: Woodworking Machinery; Accessories and Parts.

Western Personnel

CALIFORNIA
Covina—19010 E. Algrove Hercules Varellas
San Leandro—15026 Juniper St. Wm. Robt. Woosley

COLORADO
Denver—2820 Grape St. Roy J. Holsclaw
OREGON
Salem—1029 Redwood St. Virgil O. Caroland

Distributors

National Distribution.

THE COMMERCIAL SHEARING & STAMPING CO.

Box 239
Youngstown 1, Ohio

PRODUCTS: Tunnel Supports; Oil Hydraulic Com-
(Continued in next column)

The Commercial Shearing & Stamping Co. (Cont'd)

ponents; Heavy Steel Stampings; Upset Forgings; Highway Bridge Hand Railing and Curb Plates; Upset Rods and Anchor Bolts; Heavy Construction Fasteners.

Western Plant

UTAH
Salt Lake City—P.O. Box 2036 R. M. O'Neill

THE CONCRETE SURFACING MACHINERY CO.

4665 Spring Grove Avenue
Cincinnati 32, Ohio

PRODUCTS: Concrete Surfacers and Vibrators; Highway Surfacers.

Distributors

ARIZONA
Phoenix Equipment Sales Co.
CALIFORNIA
Los Angeles Garlinghouse-Fremont & Co.
M. N. Thackberry
San Francisco Edward R. Bacon Co.
Coast Equipment Co.

COLORADO
Denver Booth-Rouse Equipment Co.

HAWAII
Honolulu Edw. R. Bacon Co. of Hawaii, Ltd.

IDAHO
Boise Intermountain Equipment Co.

MONTANA
Butte Pioneer Equipment & Supply Co.
Missoula Westmont Tractor Co.

NEVADA
Las Vegas Inland Service & Supply Corp.

NEW MEXICO
Albuquerque Contractors Eqp't. & Supply Co.
N. C. Ribble Co.

OREGON
Portland Clyde Equipment Co.

UTAH
Salt Lake City Lund Machinery Co.
National Equipment Co.

WASHINGTON
Seattle Andrews Mch'y. of Washington, Inc.
Clyde Equipment Co.

WYOMING
Cheyenne Wilson Equipment & Supply 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 39, Missouri

PRODUCTS: Truck Mixers; Miscellaneous Construction Machinery.

Distributors

ARIZONA
Phoenix Superior Coach Sales & Service
CALIFORNIA (N)
Santa Rosa Stevenson Equipment Co.
COLORADO
Denver Rental Machinery Co.
NEW MEXICO
Albuquerque Leonard Motor Co.
UTAH
Salt Lake City Atlas Equipment 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.

Factory Representatives

ARIZONA
Tempe—611 Ash Ave. Chuck Lamb
COLORADO
Westminster—7821 Irving Cecil Austin
(Continued on next page)

C.I.T.'s Pay-As-You-Depreciate Plan provides long term financing for equipment purchases

Concut Sales, Inc. (Cont'd)**Distributors**

ARIZONA	
Phoenix	McDermott Equipment Co.
	Sampson Equipment Co.
Tucson	Aero Rent-All
	Carlson Brick & Builder's Supply
	Ervin's Rental Co.
	San Xavier Materials
CALIFORNIA	
Burlingame	Masonry Supply Co.
Fresno	Dacker Rentals Co.
Galt	Crystalite Block Co.
Inglewood	C. P. Concrete
Lancaster	Acme Rents
Los Angeles	W. J. Burke & Co.
	Hunt Process Co.
	Mine & Milling Co.
	Rental Yard Supply Co.
Northridge	Northridge Equipment Co.
Oakland	W. J. Burke & Co.
	California Rents
	National Expansion Joint Co.
Ontario	Wolfe & Son
Redding	Stewarts Masonry Supply
Sacramento	W. J. Burke & Co.
Salinas	Cement Prods. & Masonry Supply
San Carlos	Calstone Company
San Diego	Merchant Distributing Co.
	Production Tool
	Squires Belt Co.
San Francisco	W. J. Burke & Co.
San Gabriel	L & S Tool Supply Co.
San Leandro	Morgan Bros. Patio
Watsonville	Farmers Mercantile Co.
COLORADO	
Denver	Rocky Mountain Equipment Co.
Greeley	Cowan Concrete Products
IDAHO	
Boise	Intermountain Equipment Co.
NEW MEXICO	
Albuquerque	Contractors Eqp't. & Supply Co.
	McCaffrey-Way Co.
Roswell	Builders Block & Stone Co.
OREGON	
Eugene	Cramer Machinery Co.
Portland	Cramer Machinery Co.
	Guthrie Machinery Co.
UTAH	
Salt Lake City	Oscar E. Chystraus Co.
WASHINGTON	
Seattle	Charles R. Watts Co.
Spokane	Federal Joint Sealing Co.

CONE AUTOMATIC MACHINE CO., INC.**CONOMATIC-PIPPIN DIVISON**

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 Cerros Place	Dale Fullenwider
OREGON	
Portland	
1046 N.E. 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.

(Continued in next column)

Consolidated Western Steel Div. (Cont'd)**District Manager**

ARIZONA Phoenix—600 W. Grant St. A. E. Djerf

Sales Offices

CALIFORNIA	
Bakersfield—1215 - 30th 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	M. Frandsen
WASHINGTON	
Seattle—1729 Exch. Bldg.	H. Haynes

**CONSTRUCTION MACHINERY CO.
Glenwood & Vinton
Waterloo, Iowa**

PRODUCTS: Truck Mixers; Concrete Mixers; Central Plant Mixers; Plaster & Mortar Mixers; Contractors' Pumps; Hoists.

West Coast Representative

IOWA Waterloo, Box 120. Edw. R. Daley

Distributors

ARIZONA	
Phoenix	Shriver Machinery Co.
CALIFORNIA	
Los Angeles	Shaw Sales & Service
COLORADO	
Denver	Edward F. Taylor Machinery Co.
IDAHO	
Boise	Feenaughty Machinery Co.
MONTANA	
Billings	Industrial Equipment Co.
Missoula	Westmont Tractor & Equipment Co.
NEW MEXICO	
Albuquerque	Lively Equipment Co.
OREGON	
Portland	Feenaughty Machinery Co.
UTAH	
Salt Lake City	Heiner Equipment & Supply Co.
WASHINGTON	
Seattle	Hatten Machinery Co.

CONTINENTAL MOTORS CORP.

205 Market Street

Muskegon 82, Michigan

PRODUCTS: Red Seal Internal Combustion Engines, Air-cooled from 1 1/2 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

CALIFORNIA	
Los Angeles, 3817 Santa Fe Avenue	
President	B. F. Tobin, Jr.
Vice Pres. in charge of sales	J. O. Longenecker
Assistant Sales Manager	B. F. Tobin, III
Parts Manager	L. G. Greenwood
Western Sales and Service Representatives	
CALIFORNIA	
Covina, 780 Cypress St.	G. L. Hitchcock
San Francisco, 2370-40th Ave.	Frank Shanahan

Distributors

ARIZONA	
Phoenix	Automotive Sales Co.
Tucson	State Tractor & Equipment Co.
CALIFORNIA	
Bakersfield	Glenn Rose Engine Service
El Centro	Valley Auto Supply
Fresno	Art Schedler's Engine Rebuilders
Long Beach	Smith & Thorp
Los Angeles	Harval Truck Equipment Co.
Maywood	M & M Truck Parts
Modesto	Barnes Machine Shop
Oakland	California Equipment Co.
Sacramento	Gerlinger Motor Parts
San Diego	Auto Gear & Supply Co.
San Francisco	California Equipment Co.
San Jose	Penniman & Richards
Santa Ana	Blystone Equipment Co.
	James Requarth
Santa Maria	Nickson's Mtr. Parts & Mach. Shop
Stockton	Automotive Parts
IDAHO	
Twin Falls	Motor Mercantile Co.
NEVADA	
Las Vegas	Blystone Equipment Co.
OREGON	
Portland	Automotive Equipment Co.
UTAH	
Salt Lake City	Motor Mercantile Co.

(Continued in next column)

Continental Motors Corp. (Cont'd)**WASHINGTON**

Longview	Kellogg Automotive
Seattle	A. H. Cox & Co.
Spokane	Skaggs Automotive, Inc.

THE CONVEYOR CO.3260 East Slauson Avenue
Los Angeles 58, California

PRODUCTS: Batches; Belt Fasteners; Bindicators; 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 Records; Conveyor Scales; Sand Dewatering Equipment.

Sold Direct.

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; Challenge Spray King Plastering Machine.

Factory Branch Managers

ARIZONA	
Phoenix, 2300 S. 16th St.	M. H. Anderson
CALIFORNIA	
Los Angeles, 3332 San Fernando Rd.	F. Kirksey
Oakland, 7101 San Leandro St.	A. O. Swanson

Rocky Mountain Regional Manager

WASHINGTON Seattle, 3001 E. 87th St. E. H. Hearing

Distributors

ARIZONA	
Phoenix	(FP) W. J. Burke & Co.
CALIFORNIA	
San Francisco	(F) W. J. Burke & Co.
COLORADO	
Denver	(F) Air Rentals, Inc.
	(RMT) Jacobs-Kerr & Co.
HAWAII	
Honolulu	(RMT) Moir Industries
IDAHO	
Boise	(RMFT) Harris Truck & Eqp't. Co.
MONTANA	
Billings	(RMT) Seitz Machinery Co., Inc.
Butte	(T) Roberts Truck & Parts Co.
NEW MEXICO	
Albuquerque	(FP) W. J. Burke & Co.
OREGON	
Portland	(FP) W. J. Burke & Co.
	(RMT) Cramer Machinery Co.
UTAH	
Salt Lake City	
(F) Intermountain Concrete Specialties Co.	
Tremonton (RMT) Harris Truck & Equipment Co.	
WASHINGTON	
Seattle	(F) W. J. Burke & Co.
	(RMT) Reo Washington Sales Co.
Spokane	
(PRMT) Andrews Eqp't. Service of Wash., Inc.	
WYOMING	
(Denver)	(RMT) Jacobs-Kerr & Co.
F—Challenge Instant-Trowel Concrete Finisher	
M—Challenge Truck Mixers	
P—Challenge Spray King Plastering Machine	
R—Challenge Runabout Portable Batch Plant	
T—Cook Bros. End Dumps, Bottom Dumps, Semi Trailers and Trains.	

COPPERWELD STEEL CO.Wire & Cable Division
Glassport, Pennsylvania

PRODUCTS: Guy & Messenger Strand; Anchors, Brick and Furring; Boundary Line Survey Markers; Highway and Street Markers; Survey Markers; Wall Ties, Brick Veneer and Cavity.

(Continued on next page)

C. I. T. CORPORATION120 Montgomery Street, San Francisco
Northern Life Tower, Seattle416 West 8th Street, Los Angeles
Equitable Building, Portland

Oppeeweld Steel Co. (Cont'd)

Factory Branches

CALIFORNIA
Los Altos—755 Filip Rd. A. B. Leach
WASHINGTON
Bellevue—P.O. Box 796 Ralph Craig

ROSBY-LAUGHLIN DIVISION

**2511 Taylor Street
Fort Wayne, Indiana**

PRODUCTS: Blocks and Sheaves; Fittings, Wire Rope and Chain.

District Representative

WASHINGTON
Seattle—American Hoist Pacific C. L. Rolf
4975 - 3rd Ave.

District Managers

CALIFORNIA
Palos Verdes Estates J. F. Bishop
2208 Rocky Point Place
WASHINGTON
Seattle—4975 - 3rd Ave. R. H. Lampman

UBIC CORPORATION

**5575 Kearny Villa Road
San Diego 11, California**

PRODUCTS: Micro-Dist—Precision Electronic Surveying Equipment.

HE 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
Denver Constructors Eqpt. Co., Inc.
UTAH
Salt Lake City Lund Machinery Co.

CUMMINS ENGINE CO., INC.

Columbus, Indiana

PRODUCTS: Lightweight High-Speed Diesel Engines (60-600) for: On-Highway Trucks; Off-Highway Trucks; Buses; Tractors; Earthmovers; Shovels; Cranes; Industrial Locomotives; Air Compressors; Logging Yarders and Loaders; Drilling Rigs; Centrifugal Pumps; Generator Sets and Power Units; Work Boats and Pleasure Craft.

Regional Offices

CALIFORNIA
Los Angeles—727 W. 7th St. J. J. Studentic
San Francisco—235 Montgomery St. G. A. Gaskell
WASHINGTON
Seattle—935 Security Bldg.

Distributors

ALASKA
Anchorage Cummins Alaska Service, Inc.
ARIZONA
Phoenix Cummins Arizona Diesel, Inc.
Branches: Flagstaff, Holbrook, Tucson.
CALIFORNIA
Fresno Watson & Meehan
Los Angeles Cummins Service & Sales
Branches: Bakersfield, Montebello.
San Francisco Watson & Meehan
Branches: Redding, Sacramento.
COLORADO
Denver Cummins Diesel Sales Corp.
IDAHO
Boise Cummins Ida., Inc.
MONTANA
Billings Cummins Diesel Sales of Mont., Inc.
NEVADA
Reno Watson & Meehan
NEW MEXICO
Albuquerque Cummins Rio Grande Sales & Serv.
Farmington Cummins Sales & Service, Inc.
Hobbs Cummins Sales & Service, Inc.

(Continued in next column)

Cummins Engine Co., Inc. (Cont'd)

OREGON

Eugene Cummins Diesel Sales of Ore., Inc.
Portland Cummins Diesel Sales of Ore., Inc.

UTAH

Salt Lake City Cummins Intermount. Diesel Sales

WASHINGTON

Seattle Cummins Diesel Sales of Wash., Inc.
Spokane Cummins Diesel Sales, Inc.

WYOMING

Casper Cummins Diesel Sales Corp.

CURTISS-WRIGHT CORP.

**South Bend Division
Construction Machinery
South Bend, Indiana**

PRODUCTS: Self-Propelled Scrapers; Self-Propelled Dumper; Tractor-Drawn Scrapers; Power Control Units; Rubber-Tired Tractors.

District Sales Managers

ARIZONA
Phoenix—3921 E. Elm Drive William Marsh
CALIFORNIA
Anaheim—501 E. Orangethorpe Ave.
..... John W. King, Sr.
OREGON
Portland—7340 S.W. 90th Ave. Harold E. Klump

District Service Representatives

CALIFORNIA
Santa Clara—180 Serena Way W. L. McKinney
Sunnyvale—569 Waite Ave. M. A. Biser

Distributors

ARIZONA
Phoenix Aztec Equipment Co., Inc.
COLORADO
Denver Faris-Moritz Equipment Co.
MONTANA
Butte Pioneer Equipment & Supply Co.
Sidney Yellowstone Machinery Co.
NEVADA
Reno General Equipment Co.
NEW MEXICO
Albuquerque Construction Machinery Co.
UTAH
Salt Lake City Atlas Equipment Co.
WYOMING
Casper Century White Truck Co., Inc.

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
Rix Co., Inc.
Smith Industrial Supply Co.
Victor Equipment Co.
San Jose 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

D & M MACHINE WORKS

**2304 Abalone Avenue
Torrance, California**

PRODUCTS: Bottom Rollers (bearing-type) for crawler tractors.

Distributors

ALASKA
(Seattle) Western Tractor & Equipment Co.
ARIZONA
Phoenix Equipment Sales Co.
CALIFORNIA
Callexico Bates & Osborn, Inc.
Eureka McGaraghan Supply Co.
Fresno Rol-Pak Filter Service
Los Angeles Gorman & Co.
Marysville Peterman Equipment Co.
Redding Paul Droscher Sales
Redwood City "Lewie's" Track Service
San Diego Contractors Service Div.
of San Diego Spring & Brake Wks.
Ukiah Reliable Mill & Supply Co.

HAWAII

Honolulu Grace Bros., Ltd.

IDAHO

Boise Intermountain Equipment Co.

MONTANA

Billings Westate Machinery Co.

NEW MEXICO

Albuquerque Equipment Sales Co.

OREGON

Eugene Eugene Equipment Co.
John Day Moty & Van Dyke
Klamath Falls Fred E. Barnett Co.
Portland Timberline Equipment Co.
Roseburg G. R. Schnore Equipment Co.

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 Moss Equipment & Supply 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 Managers

COLORADO
Denver—4638 Clay St. George A. Stier
Englewood—4800 S. Clarkson W. D. McCready

Distributors

ARIZONA
Phoenix Lee Redman Equipment Co.
CALIFORNIA
Gardena Herauf-Decco Equipment Co.
Los Angeles Mine & Mill Machinery Co.
San Francisco Coast Equipment Co.
COLORADO
Denver Fincham Equipment Co.
Rental 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 Kereml Tractor & Equipment Co.

DAVEY COMPRESSOR CO.

**600 Franklin Avenue
Kent, Ohio**

PRODUCTS: Portable Compressors, rotary and piston; Auto-Air Compressors; Power Take-Offs; Drill Rigs; Air Tools.

(Continued on next page)

**C.I.T.'s Engineered Finance Plans fit the needs of
contractors and distributors**

Davey Compressor Co. (Cont'd)**Distributors**

ARIZONA	
Phoenix	Superior Equipment Co.
CALIFORNIA	
Los Angeles	Larson Equipment Co.
COLORADO	
Denver	Truck Equipment Co.
NEW MEXICO	
Albuquerque	Construction Machinery Co.
OREGON	
Portland	Feenaughty 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	
Alamo—238 Camille Ave.	R. L. Logan

Distributors

ARIZONA	
Phoenix	Western Truck Equipment Co.
CALIFORNIA	
Fresno	Utility Trailer Sales Co.
Los Angeles	Brown-Bevis-Industrial Equip. Co.
Maywood	Western Body & Hoist Co.
San Francisco	Transport Supply Co.
COLORADO	
Denver	Timpte Bros., Inc.
MONTANA	
Joplin	McClellan's, Inc.
Missoula	Superior Coach Sales
NEW MEXICO	
Albuquerque	Timpte Bros., Inc.
OREGON	
Portland	Air Mac, Inc.
	Utility Trailer & Eqpt. Co.
UTAH	
Salt Lake City	Flinco, Inc.
WASHINGTON	
Seattle	Air Mac, Inc.
	Transport Trailer & Eqpt. Co.
Spokane	Air Mac, Inc.
	Spokane Machinery Co.

JOHN DEERE, INDUSTRIAL DIVISION

1325-3rd Avenue
Moline, Illinois

PRODUCTS: Cylinders (hydraulic and air); Ditchers; Dozers; Dryers; Elevators; Diesel & Gasoline Engines; Front End Loaders (crawler and rubber tired); Levellers; Rippers & Scarifiers; Rotary Snow Plows; Scrapers; Backhoe Shovels; Snow Plows; Aggregate Spreaders; Tractors (crawler and rubber tired); Tractor Attachments; Trailers; Fork Lift Trucks; Wagons.

Branches

CALIFORNIA	
San Francisco—Box 3573, Rincon Annex	J. Bohmker
(Arizona, California, Hawaii and Nevada)	
OREGON	
Portland—215 S.E. Morrison St.	A. G. McClary
(Alaska, Idaho, Montana, Oregon, Utah, Washington and Wyoming)	

DEPENDALOY TRACTOR PARTS CO.

Route 6, Box 251
San Jose, California

PRODUCTS: Track Rollers and other undercarriage parts.

Distributors

ARIZONA	
Phoenix	O. S. Stapley Co.
Prescott	Boyd Tractor & Equipment Co.
CALIFORNIA	
Corcoran	Sawtill & Rastrim
Fresno	Fresno Tractor Parts Co.
(Continued in next column)	

Dependaloy Tractor Parts Co.**(Cont'd)**

COLORADO	
Englewood	Wear Prevention Alloy
Grand Junction	Mine & Oil Supply Co.
IDAHO	
Boise	Bunting Tractor Co.
	Idaho Automatic Welders & Tractor
	Couder d'Alene
	Brack Motor Supply
MONTANA	
Billings	Montana Powder Co.
NEW MEXICO	
Albuquerque	Construction Machinery Co.
	McCaffrey Way Motor & Supply Co.
OREGON	
Gold Beach	Turner Auto Parts
Grants Pass	Grants Pass Loggers Supply
Medford	Cal-Ore Machinery Co.
Portland	Oregon Tractor & Equipment Co.
UTAH	
Salt Lake City	Heiner Equipment Co.
WASHINGTON	
Aberdeen	Grays Harbor Equipment Co.
Spokane	Fray Equipment Co.

DETROIT DIESEL ENGINE DIVISION

General Motors Corporation
13400 West Outer Drive
Detroit 28, Michigan

PRODUCTS: Two-Cycle Diesel Engines: 20 to 1650 HP, *Series 53, 71 and 110 single and multiple engines; Fan-to-Flywheel and Base Mounted (Package Power) Units; 20 to 245 KW Generator Sets for "Off-the-Line" or Standby Service.
 *Number in series denotes cubic inch displacement per cylinder.

Western Regional Manager

CALIFORNIA	
San Francisco—1426 Russ Bldg.	R. L. Burpee

Distributors and Dealers

ALASKA	
Anchorage	Modern Motors Co., Inc.
Fairbanks	Fairbanks Automotive
Ketchikan	Nor. Machine Wks. & Marine Ry., Inc.
Petersburg	Tryer Machine Works
Sitka	Sitka Engine & Equipment Co.
Wrangell	Wrangell Machine Works
ARIZONA	
Phoenix	The Diesel Service Co.
CALIFORNIA	
Bakersfield	Lawless Brothers, Inc.
Berkeley	Williams & Lane, Inc.
Eureka	Trinity Supply Co.
Fort Bragg	West Coast Engine & Machine Wks.
Healdsburg	Louis F. Seims
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 Francisco	Shoreline Diesel Maintenance
San Pedro	Anderson-O'Brien Co.
Stockton	R. & L. Diesel Service
Ventura	Gem Equipment Co.
Visalia	Tulare County Tractor Co.
COLORADO	
Denver	Dobbs GM Diesel, Inc.
NEVADA	
Reno	Sierra Machinery Co., Inc.
NEW MEXICO	
Albuquerque	Southwest Engine Co., Inc.
Farmington	Southwest Engine Co., Inc.
OREGON	
Astoria	Marine Equipment Co.
Coos Bay	Harbor Diesel & Supply Co.
Eugene	Gunderson Bros. Engineering Corp.
Medford	Hauptert Tractor Co.
Newport	Newport Diesel Service
Portland	Gunderson Bros. Engineering Corp.
UTAH	
Salt Lake City	Cate Equipment Co., Inc.
WASHINGTON	
Bellingham	Bellingham Marine, Inc.
Hoquiam	Wise Engine & Machine Co.
Seattle	Modern Motors Co., Inc.
Spokane	Intermountain Equipment Co.
WYOMING	
Casper	Dobbs GM Diesel, Inc.

DE WALT DIVISION, AMF

Fountain Avenue
Lancaster, Pennsylvania

PRODUCTS: Radial-arm Woodworking and Metal
 (Continued in next column)

De Walt Division, AMF (Cont'd)

Cutting Machines for industry, including heavy construction market.

Representatives

CALIFORNIA	
Beverly Hills—9385 Charleville Rd.	W. H. Dudley
Sausalito—108 Third St.	Flemming Andersen
COLORADO	
Arvada—5975 Dover St.	F. J. Gregory
WASHINGTON	
Bellevue—9856 N.E. 20th	G. H. Manchester

DIAMOND CHAIN CO., INC.

402 Kentucky Avenue
Indianapolis 7, Indiana

PRODUCTS: Sprockets; Finished Steel Roller Chains; 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 Sup. 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	M. R. Priest & Sons, Inc.
Pocatello	Pocatello Plumbing & Indus. Sup., Inc.
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 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 Washing Plants, both portable and stationary; Jaw Crushers; Roll Crushers; Screens; Washers; Portable or Stationary Conveyors; Apron or Plate Feeders; Bins; Hoppers; Hammermills; Wood Hogs; Rope Belt Conveyors.

Distributors

ALASKA	
(Seattle)	The Carrington Co.
ARIZONA	
Phoenix	Copper State Tractor Co.
Tucson	State Tractor & Equipment Co.
(Albuquerque)	J. D. Coggins Co.
CALIFORNIA	
East 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.
(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

Diamond Iron Works (Cont'd)

NEVADA	
(Oakland)	Sun Equipment Co.
(East Los Angeles)	Shaw Sales & Service Co.
(Salt Lake City)	Lund Machinery 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	
(Boise)	The Sawtooth Co.
(Denver)	Western Machinery Co.
(Salt Lake City)	Lund Machinery Co.

DIAMOND POWER SPECIALTY CORP.

P.O. Box 415
Lancaster, Ohio

PRODUCTS: Closed Circuit Television.

Factory Branch Manager

CALIFORNIA
Los Angeles, 4708 Crenshaw Blvd. R. W. Hall

Distributors

ARIZONA	
Phoenix	C. C. Moore & Co.
CALIFORNIA	
Los Angeles	C. C. Moore & Co.
San Francisco	C. C. Moore & Co.
COLORADO	
Denver	The Stearns Roger Mfg. Co.
HAWAII	
Honolulu	Hawaiian Equipment Co., Ltd.
OREGON	
Portland	C. C. Moore & Co.
UTAH	
Salt Lake City	The Stearns Roger Mfg. Co.
WASHINGTON	
Seattle	New Products, Inc.

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 Saw Center
CALIFORNIA	
Bakersfield	Bakersfield Welding Supply
Berkeley	Central Equipment Co.
Oakland	Norman S. Hickerson
Sacramento	Central Equipment Co.
San Francisco	Elder Construction Supply Vermarco Supply Co.
COLORADO	
Boulder	Industrial Diamond Sales
Denver	Armstrong Caster Co.
UTAH	
Salt Lake City	Lund Machinery Co.

R. E. DIETZ CO.

225 Wilkinson Street
Syracuse 1, New York

PRODUCTS: Hazard and Portable Lighting Equipment (Electronic Flashers, Lanterns, Road Torches).

Sales Offices

CALIFORNIA	
Los Angeles, 2343 Saybrook Ave.	H. M. Pforsich Co.
San Francisco, 466 Western Mdse. Mart.	H. M. Pforsich Co.
WASHINGTON	
Seattle, 400 Boren Ave. N.	H. M. Pforsich Co.

(Continued in next column)

R. E. Dietz Co. (Cont'd)**Distributors**

ARIZONA	
Phoenix	Pratt-Gilbert Co.
Tucson	Complete Industrial Supply Co.
CALIFORNIA	
Los Angeles	Constructors Supply Co. Flash-R-Life Corp.
San Francisco	California Industrial Supply Co.
COLORADO	
Denver	Hendrie & Bolthoff Mfg. Co. Harry H. Post Co.
HAWAII	
Honolulu	Theo. H. Davies & Co., Ltd.
IDAHO	
Boise	Idaho Hardware & Plumbing Co.
MONTANA	
Helena	Montana Powder & Equipment Co.
NEVADA	
Las Vegas	McQuay Supply Co.
NEW MEXICO	
Albuquerque	The Cornelius Co.
OREGON	
Portland	J. E. Haseltine & Co.
UTAH	
Salt Lake City	Salt Lake Hardware Co.
WASHINGTON	
Bellingham	More Hardware Co.
Spokane	Jensen-Byrd Co.
Tacoma	Hunt & Mottet Co.
WYOMING	
Casper	Wyoming Hardware Co.

DIXIE FORM & STEEL CO.

P.O. Box 6387
Alamo Heights Station
San Antonio 9, Texas

PRODUCTS: Steel Forms for concrete construction.

Distributors

Contact San Antonio Office.

DIXON VALVE & COUPLING CO.

Second St. & Columbia Ave.
Philadelphia 22, Pennsylvania

PRODUCTS: Hose Couplings; Hose Clamps; 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 Managers

CALIFORNIA
Lafayette—850 Rosedale Ave. Larry Swanson
OREGON
Portland—3035 S. W. 75th Ave. Thos. P. McNish

DODGE DIVISION

Chrysler Corporation
7900 Jos. Campau
Detroit 31, Michigan

PRODUCTS: Dodge Trucks—Diesel Powered, Gas Powered.

Factory Personnel

CALIFORNIA
Anaheim—1111 N. Brookhurst
J. F. Hansen, Area Sales Mgr.
J. M. Cochrane, Truck Mgr.
D. E. Harding, New Truck Mgr.
San Mateo—2010 Pioneer Ct.
OREGON
Portland—1843 Couch, N.E.
G. C. Laridon, New Truck Mgr.

Distributors

CALIFORNIA	
Pasadena	Southwest Dodge Truck Center
Sacramento	Pacific Dodge Truck Center
COLORADO	
Denver	Thomas-Hyer, Inc.
NEW MEXICO	
Albuquerque	Louthan-Dowell Trucks, Inc.
UTAH	
Salt Lake City	Deseret Dodge Truck Center, Inc.
WASHINGTON	
Seattle	Northwest Dodge Truck Center

DORR-OLIVER, INC.

Havemeyer Lane
Stamford, Connecticut

PRODUCTS: Clarifiers; Digesters, Sewage Sludge; Distributors, Rotary Sewage; Filtration Plant Equipment; Flocculating Equipment; Grit Removal Equipment; Sand and Gravel Plants; Screens, Sewage; Sewage Treatment Equipment; Sludge Collectors; Sludge Dewaterers, Mechanical; Thickeners; Water Softening Equipment; Water Purification Equipment; Aerators; Agitators; Filters; Vacuum Filters; Sand Plants.

Factory Branches

CALIFORNIA
Los Angeles and Oakland
COLORADO
Denver
WASHINGTON
Seattle

DOTMAR INDUSTRIES, INC.

103 N. Burdick Street
Kalamazoo, Michigan

PRODUCTS: Curb, Gutter, and Sidewalk Pavers; Magnesium Curb & Gutter and Sidewalk Forms; Front End Loader Bucket Mixer; Asphalt & Concrete Curbing Machines.

Distributors

ALASKA	
(Seattle)	Northern Commercial Co.
CALIFORNIA	
Oakland	Sun Equipment Co.
COLORADO	
Denver	Booth-Rouse Equipment Co.
HAWAII	
Honolulu	Hawaiian Equipment Co., Ltd.
MONTANA	
Billings	Western Construction Eqpt. Co.
Great Falls	Western Construction Eqpt. Co.
OREGON	
Portland	Air-Mac, Inc., of Oregon
UTAH	
Salt Lake City	Lund Machinery Co.
WASHINGTON	
Seattle	Andrews Machinery of Wash., Inc.
Spokane	Andrews Equip. of Wash., Inc.
WYOMING	
Cheyenne	Keremi Tractor & Equipment Co.

DOUBLE J BREAKER CO., INC.

3484 East Gage Avenue
Bell, California

PRODUCTS: Heavy Duty Rock Rippers; Pipeline Rippers; Cable Layers; Soil Breakers; Ripper Shanks; Points; "Fantail" Breakers; Sub-soilers.

District Manager

CALIFORNIA
San Jose, 4839 Atherton Ave. Richard C. Ashley

Distributors

ALASKA	
Anchorage	Western Tractor & Equipment Co.
Fairbanks	Western Tractor & Equipment Co.
ARIZONA	
Phoenix	Western Machinery Co.
Tucson	Western Machinery Co.
CALIFORNIA	
Bakersfield	Brown-Bevis Industrial Equip. Co.
Blythe	Honnen Machinery Co.
Chico	Peterson Tractor Co.
Coachella	Johnson Tractor Co.
Downey	Cutting Edge Supply Co.
Escondido	Hawthorne Machinery Co.
Five Points	Allied Equipment Co.
Fresno	Allied Equipment Co.
Lancaster	Shepherd Machinery Co.
Los Angeles	Brown-Bevis Industrial Equip. Co. Industrial Parts Depot, Inc. Shaw Sales & Service Shepherd Machinery Co.
Madera	Allied Equipment Co.
Napa	Berglund Tractor & Equipment Co. L. J. McNeil Construction Supplies
Ontario	Johnson Tractor Co.
Porterville	Brown Machinery Co.
Redding	Peterson Tractor Co.
Reedley	Allied Equipment Co.
Riverside	Growers Supply Co.
	Brown-Bevis Industrial Equip. Co. Johnson Tractor Co.

(Continued on next page)

C.I.T. Loans on Equipment Fleets increase contractors working capital funds

Double J Breaker Co., Inc. (Cont'd)

Sacramento Edward R. Bacon Co.
 San Diego Brown-Bevis Industrial Equip. Co.
 Construction Machinery
 Hawthorne Machinery Co.
 San Leandro Peterson Tractor Co.
 Santa Ana Shepherd Machinery Co.
 Santa Rosa Berglund Tractor & Equip. Co.
 Tranquility Allied Equipment Co.
 Ventura Brown-Bevis Industrial Equip. Co.
 Willits Berglund Tractor & Equipment Co.

HAWAII

Honolulu Honolulu Iron Works Co.
 Hilo Honolulu Iron Works Co.

IDAHO

Boise Intermountain Equipment Co.
 Starline Equipment Co.
 Western Equipment Co.
 Burley Western Equipment Co.
 Idaho Falls Western Equipment Co.
 Pocatello Intermountain Equipment Co.
 Western Equipment Co.
 Twin Falls Western Equipment Co.

MONTANA

Billings Nash-Davis Machinery Co.
 Bozeman Nash-Davis Machinery Co.

NEW MEXICO

Albuquerque The Cornelius Co.
 Farmington The Cornelius Co.

OREGON

Eugene Interstate Tractor & Equipment Co.
 Pape Brothers
 Medford Cal-Ore Machinery Co., Inc.
 Ontario Western Equipment Co.
 Portland Interstate Tractor & Equipment Co.

UTAH

Salt Lake City Heiner Equipment & Supply Co.
 Holland Equipment Co.
 Wheeler Machinery Co.

WASHINGTON

Dayton Stone Machinery Co.
 Seattle Totem Equipment Co., Inc.
 Western Tractor & Equipment Co.
 Spokane American Machine Co.
 Intermountain Equipment Co.
 Modern Machinery Co., Inc.
 Walla Walla Stone Machinery Co.

WYOMING

Casper Wortham Machinery Co.
 Cheyenne Wortham Machinery Co.
 Greybull Nash-Davis Machinery Co.
 Newcastle, Riverton, Rock Springs and
 Sheridan Wortham Machinery Co.

DOUGLAS MOTORS CORP.**BIG CHIEF DIVISION**

1234 North 62nd Street
 Milwaukee 13, Wisconsin

PRODUCTS: Plaster and Mortar Mixers; Tilting
 Concrete Mixers.

Distributors

ARIZONA
 Phoenix Waco Scaffolding & Equipment

CALIFORNIA

Los Angeles Cal-Rex Machinery Sales
 San Francisco Coast Equipment Co.

COLORADO

Denver Booth-Rouse 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.

NEW MEXICO

Albuquerque Frank's Supply Co.

WASHINGTON

Spokane Intermountain Equipment Co.

WYOMING

Casper Keremi Tractor & Equipment Co.

DOUGLAS MOTORS CORP.**WESTERN EQUIPMENT DIVISION**

1234 North 62nd Street
 Milwaukee 13, Wisconsin

PRODUCTS: Plaster and Mortar Mixers; Tilting
 Concrete Mixers; Tandem Road Rollers;
 Vibratory Rollers.

Factory Representatives

ARIZONA
 Phoenix, P.O. Box 2406 Reading Overstreet

COLORADO

Denver, 1420 Ulster St. C. A. Brown
 (Continued in next column)

Douglas Motors Corp., Western**Equipment Division (Cont'd)****Distributors****ALASKA**

Anchorage Bashaw Equipment Co.

ARIZONA

Tucson Equipment Sales & Service

CALIFORNIA

El Cajon K.C.Y. Tractor Co.

COLORADO

Denver Contractors' Equipment & Supply Co.

MONTANA

Billings Rental Equipment Co.

NEW MEXICO

Albuquerque Albuquerque Gravel Products Co.

OREGON

Portland Scaffold & Equipment Co.

UTAH

Salt Lake City Contractors' Equip. & Supply Co.

WASHINGTON

Seattle Mutual Materials Co.
 Yakima Safway Equipment Co.

DRAKE-WILLIAMS STEEL, INC.

2301 Hickory Street
 P.O. Box 1126
 Omaha 1, Nebraska

PRODUCTS: Dragline Buckets.

District Sales Office**CALIFORNIA**

Berkeley-Owen Bucket Co., Ltd.
 2nd and Gilman Sts. E. L. Kelzer, Mgr.

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.

NEVADA

Reno Sanford Tractor & Equipment Co.
 Sierra Machinery Co.

NEW MEXICO

Albuquerque Contractors' Equip. & Supply Co.
 Lively Equipment Co.

OREGON

Klamath Falls Cascade Industrial Supply Co.

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**

Los Angeles, 3848 Los Feliz Blvd., Apt. 23
 C. E. Boston
 S. San Francisco, 101 S. Airport Blvd.
 E. O. Stafford

WASHINGTON

Seattle, 101 Jones Bldg. F. R. Frey

Distributors**ARIZONA**

Phoenix Republic Supply Co. of Calif.
 Western Supply Co.

Tucson

Amstan Supply Division
 (Continued in next column)

Dresser Manufacturing Div. (Cont'd)**CALIFORNIA**

Avenal Oil Well Supply Division
 Republic Supply Co. of Calif.

Bakersfield

Howard Supply Co.
 National Supply Co.

Emeryville

Grinnell Co. of the Pacific
 Grinnell Co. of the Pacific

Eureka

Grinnell Co. of the Pacific
 Grinnell Co. of the Pacific

Fresno

Tay-Holbrook, Inc.
 Grinnell Company

Long Beach

Oil Well Supply Division
 Republic Supply Co. of Calif.

Los Angeles

Commercial Iron Works
 Grinnell Company

Oakland

Howard Supply Co.
 Smith-Scott Co., Inc.

Riverside

Grinnell Co. of the Pacific
 Tay-Holbrook, Inc.

Sacramento

Grinnell Co. of the Pacific
 Tay-Holbrook, Inc.

Salinas

Tay-Holbrook, Inc.
 Tay-Holbrook, Inc.

San Carlos

Grinnell Co. of the Pacific
 Tay-Holbrook, Inc.

San Francisco

Grinnell Co. of the Pacific
 Grinnell Co. of the Pacific

San Jose

Tay-Holbrook, Inc.
 Republic Supply Co. of Calif.

San Leandro

Tay-Holbrook, Inc.
 Grinnell Company

Santa Barbara

Grinnell Company
 Republic Supply Co. of Calif.

Santa Fe Springs

Republic Supply Co. of Calif.
 Tay-Holbrook, Inc.

Santa Maria

Republic Supply Co. of Calif.
 Tay-Holbrook, Inc.

Santa Rosa

Tay-Holbrook, Inc.
 Oil Well Supply Division

Saugus

Republic Supply Co. of Calif.
 Tay-Holbrook, Inc.

Stockton

Tay-Holbrook, Inc.
 Oil Well Supply Division

Taft

Oil Well Supply Division
 Oil Well Supply Division

Ventura

Oil Well Supply Division
 Oil Well Supply Division

COLORADO

Denver Thompson Pipe & Steel Co.

IDAHO

Boise Consolidated Supply Co.

OREGON

Eugene Consolidated Supply Co.
 Portland Consolidated Supply Co.

Portland

Pacific Waterworks Supply
 Utilities Supply Co.

Waterworks Supplies**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.
 American Pipe & Supply Co.

WYOMING

Casper American Pipe & Supply Co.

Casper

American Pipe & Supply Co.

AMERICAN PIPE & SUPPLY CO.

1001 E. 1st St., Casper, Wyo.

PRODUCTS: High Speed and Heavy Duty Concrete

Vibrators.

Distributors**ARIZONA**

Phoenix Western Machinery Co.

CALIFORNIA

City of Industry Smith Booth Usher Co.
 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.

IDAHO

Idaho Falls Western Machinery Co.

NEVADA

Las Vegas Inland Equipment Co.

UTAH

Salt Lake City Western Machinery Co.

WESTERN MACHINERY CO.

1001 E. 1st St., Casper, Wyo.

PRODUCTS: Skid-Shovels; Skid-Loaders; Bulldozers;

Shovels; Scarifiers; Grubber Blades.

District Representatives**CALIFORNIA**

Hayward, 1775 St. Andrew St. Charles Rieckhoff

WASHINGTON

Seattle, 2564 38th Ave. Ken G.

See your International Harvester Company Distributor

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
 Northern Life Tower, Seattle

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

F-NORTON CO.
709 Preble Avenue
Pittsburgh 33, Pennsylvania

PRODUCTS: Ratchet, Screw and Hydraulic Jacks; Trench Braces; Pump and Ram Jacks.

Western Personnel

CALIFORNIA
 San Francisco, 1016 Howard St.
 A. M. Kelly, Factory Branch Mgr.
MEXICO
 Albuquerque, Austin-Pruden Co.,
 515 Virginia Ave., S.E.
 J. G. Austin, Agent
IDAHO
 Portland, 9823 S.W. 2nd
 Tom B. Petersen, District Sales Mgr.

Distributors

IDAHO
 Boise, Intermountain Equipment Co.
UTAH
 Salt Lake City, B & J Equipment Co.
 Star Machinery Co.
OREGON
 Portland, Intermountain Equipment Co.
 Jensen-Byrd Co.
WASHINGTON
 Seattle, B & J Equipment Co.
 Star Machinery Co.
WYOMING
 Cheyenne, Intermountain Equipment Co.
 Jensen-Byrd Co.

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.

Distributors

IDAHO
 Boise, Equipment Sales Co.
CALIFORNIA
 Los Angeles, Mine & Mill Machinery Co.
 Pneumatic Machinery Co.
 San Francisco, Coast Equipment Co.
COLORADO
 Denver, Air Rentals, Inc.
HAWAII
 Honolulu, Edward R. Bacon Co. of Hawaii
OREGON
 Portland, Loggers & Contractors Mch. Co.
WASHINGTON
 Seattle, A. H. Cox & Co.

GLE CRUSHER CO., INC.
900 Harding Way, East
Galion, Ohio

PRODUCTS: Jaw Crushers; Pulverizers; Hammer-mills; 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 Expt. Co., Inc.
MONTANA
 Missoula, Westmont Tractor Co.
UTAH
 Salt Lake City, Williamson, Inc.
WASHINGTON
 Seattle, Hatten Machinery Co.
 Spokane, Inland Diesel & Machinery Co.

EAGLE IRON WORKS
129 Holcomb Street
Des Moines 12, Iowa

PRODUCTS: Sand, Gravel, Crushed Stone and Ore Washing and Classifying Equipment; Sand Washer-Classifiers-Dehydrators; Water Scalping Tanks; Revolving Cutter Head Ladders; Traveling Screen Chain Dredging Ladders; Gravel Washer-Dewaterers; Log Washers (Gravel, Stone and Ore); Clay Plant Equipment; Clay Crushers; Shale Planers; Breaker Balls; Pile Hammers; Follow Blocks; Stabilized Road Base Mixers.

(Continued in next column)

Eagle Iron Works (Cont'd)

Distributors

ALASKA
 (Seattle) The Carrington Co.
ARIZONA
 Phoenix, Arizona Cedar Rapids Co.
CALIFORNIA
 Los Angeles, Brown-Bevis Industrial Equip. Co.
 Fernholtz Machinery Co.
 Walter C. Stoll & Sons
 San Francisco, Cook Bros. Truck & Equip. Co.
COLORADO
 Denver, H. W. Moore Equipment Co.
HAWAII
 Honolulu, Hawaiian Equipment Co.
IDAHO
 Boise, Intermountain Equipment Co.
MONTANA
 Billings, Western Construction Equipment Co.
 Great Falls, Western Construction Equipment Co.
NEVADA
 Reno, Sierra Machinery Co.
NEW MEXICO
 Albuquerque, N. C. Ribble Co.
OREGON
 Portland, Balzer Machinery Co.
UTAH
 Salt Lake City, Kimball Equipment Co.
WASHINGTON
 Seattle, Sahlborg Equipment, Inc.
 Spokane, Intermountain Equipment Co.
WYOMING
 Casper, Keremi Tractor & Equipment Co.
 Cheyenne, Keremi Tractor & Equipment 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

EARTH EQUIPMENT CORP.
1409 Santa Fe Avenue
Los Angeles 21, California

PRODUCTS: Trenchers; Dozers.

Factory Branch Managers

CALIFORNIA
 Los Angeles, 1409 Santa Fe Ave., Richard Genger
 Stockton, 1030 E. Church St., Max Edwards

Distributors

ARIZONA
 (Los Angeles) Earth Equipment Corp.
CALIFORNIA
 Los Angeles, Earth Equipment Corp.
COLORADO
 Denver, McCarty-Sherman Dist. Corp.
NEW MEXICO
 Albuquerque, Western Tractor Corp.
OREGON
 Portland, R. M. Wade & Co.
WASHINGTON
 (Portland) R. M. Wade & Co.

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.
 A. E. Thornton
COLORADO
 Denver, 2863 Walnut St., E. L. Morrett
WASHINGTON
 Kent, 721 W. Meeker, R. L. Jennings

Representatives

CALIFORNIA
 Los Angeles, 5718 Long Beach Ave., R. B. Crowe
 R. W. Kiel and R. J. Finger
 Oakland, 190 MacArthur Blvd., L. S. Dingman
COLORADO
 Denver, 2863 Walnut St., Alva Long
OREGON
 Portland, 208 N.E. Oregon St., R. K. Doty

EDGEWATER AUTOMOTIVE DIVISION

Graves Street
St. Joseph, Michigan

PRODUCTS: Hydraulic Hand Jacks 1 1/2 to 100 tons capacity; Floor Service Jacks 1 1/4 to 20 tons capacity; Garage Trestles; Manual and Electric Hydraulic Cranes, truck mounted and mobile types.

Distributed by Colyear Motor Sales Co. in the following cities:

ARIZONA
 Phoenix, Tucson
CALIFORNIA
 Fresno, Los Angeles, Oakland, San Diego, San Francisco
IDAHO
 Boise
OREGON
 Portland
WASHINGTON
 Seattle, Spokane

EDOCO TECHNICAL PRODUCTS, INC.

2370 East Artesia Boulevard
Long Beach 5, California

PRODUCTS: Concrete Specialties and Accessories.

Factory Branch Managers

ALASKA
 Anchorage, 1800 Second Ave., Arthur Waldron
CALIFORNIA
 El Cerrito, 10562 San Pablo Ave., Eddie Pedro

E. H. EDWARDS CO.
Butler Road and Industrial Way
South San Francisco, California

PRODUCTS: Wire Rope.

Factory Branches

CALIFORNIA
 Rivers, 8454 E. Trojan St.
OREGON
 Portland, 2690 N.W. 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; Angle-doers; Loaders (Diesel, for surface); (Air, Electric, for underground); Solid Scrapers; Folding Scrapers (Mining); Filters, all types vacuum and pressure.

(Continued on next page)

C.I.T.'s Pay-As-You-Depreciate Plan provides long term financing for equipment purchases

The Eimco Corp. (Cont'd)**Factory Branches****CALIFORNIA**

Berkeley, 637 Cedar St. J. K. Russell
 San Mateo, 420 Peninsular Ave. E. M. Kelly

Distributors**CALIFORNIA**

Eureka Aikens Tractor Co.

COLORADO

Denver Union Supply Co.

Grand Junction Western Machinery Co.

IDAHO

Lewiston...Coeur d' Alene Hardware & Foundry

Wallace...Coeur d' Alene Hardware & Foundry

OREGON

Eugene Gunderson Bros.

Klamath Falls... Cascade Industrial Supply, Inc.

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; Dragline Bucket Replacement Parts and Rigging.

Factory Branch Managers**CALIFORNIA**

Emeryville, 1280 65th St. Ted Smith

Los Angeles, 6415 E. Corvette 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 Empire Machinery Co.

COLORADO

Denver Faris-Moritz Equipment Co.

IDAHO

Boise Intermountain Equipment Co.

UTAH

Pocatello Intermountain Equipment Co.

WASHINGTON

Salt Lake City... Foulger Equipment Co.

WASHINGTON

Spokane Intermountain Equipment Co.

ELECTRIC TAMPER & EQUIPMENT CO.

Ludington, Michigan

See listing under JACKSON VIBRATORS, INC.

ELECTRONIC SPECIALTIES

Island Avenue
 Batavia, Illinois

PRODUCTS: Flare Transistor Lights; Flare Neon Lights; Alternate Flare Flashing Incandescent Units with Wig-Wag Signal Effect on

42" Barricades; 48" and 60" Barricades (all steel with folding legs); Utility Transistorized Lights; 110-volt Flashing Lights; Rotary Lights for Trucks and Emergency Vehicles.

Factory Branch**OREGON**

Portland—Vic Paul Co., 510 N.W. Hoyt
 Vic Paul

EL-JAY MANUFACTURING CO., INC.

3440 Franklin Boulevard
 Eugene, Oregon

PRODUCTS: Crushing, Washing, Feeding and Screening Machinery, both portable and stationary; Rollercone and Gyrajaw Rock
 (Continued in next column)

El-Jay Mfg. Co., Inc. (Cont'd)

Crushers; Four Bearing and Vibramatic Vibrating Screens; Log Type Gravel Washers; Sand Screws and Feeders; Wood Chip Screens.

Sales Manager (for Oregon and Washington)**OREGON**

Salem, 1190 Columbia St. Ralph Steele

Distributors**CALIFORNIA**

City of Industry... Smith Booth Usher Co.

Pleasanton A. R. Torrey

HAWAII

Honolulu Hawaiian Equipment Co., Ltd.

MONTANA

Billings... Western Construction Equipment Co.

EMPIRE BLDG. MATERIAL CO.

9255 N.E. Halsey Street
 Portland 20, Oregon

PRODUCTS: Light weight aggregate expanded shale, concrete block, Prestress concrete.

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 Elevators; "Tugger" Gas Engine and Electric Hoists.

Distributors**ALASKA**

(Seattle) The Carrington Co.

ARIZONA

Phoenix Superior Equipment Co.

CALIFORNIA

Los Angeles Garlinghouse, Fremont Co.

COLORADO

Denver Edward F. Taylor Co.

Grand Junction... Edward F. Taylor Co.

IDAHO

Idaho Falls... Southern Idaho Equipment 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 Batches; 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.

Nell 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-Bevis Industrial Equip. Co.

San Joaquin Tractor Co.

Berkeley... West Coast Engine & Equip. Co.

Chico Sierra Tractor & Equipment Co.

(Continued in next column)

Erie Strayer Co. (Cont'd)

City of Industry... Smith Booth Usher
 El Monte Warnock-Bancroft Equipment
 Fresno Allied Equipment
 Los Angeles... Brown-Bevis Industrial Equip.

Calavar Corporation

Casey-Metcalf Machinery

Crook Company

Essick Machinery

Garlinghouse, Fremont & Co.

Harron Rickard & McC

Santa Fe Equipment Co., I

Schramm, I

Shepherd Tractor & Equipment

Marysville Sacramento Valley Tractor

Modesto Stanislaus Implement & Hardware

Oakland Bay Cities Equipment, I

Buran Equipment

Spears-Wells Machinery

Sun Equipment

Redding Sullivan & Crowe Equipment

Richmond Bay Equipment

Salinas Farmers Mercantile

San Francisco Edward R. Bacon

Coast Equipment

Contractors Machinery

Standard Machinery

San Jose Valley Equipment

Stockton Gr

Moore Equipment

COLORADO

Denver Booth-Rouse Equipment

Constructors Equipment

McCoy Comp

Power Transmission

Western Machinery

IDAHO

Boise Engineering Sales Service, I

Feenaughty Machinery

Starline Equipment

Western Equipment

Idaho Falls... Southern Idaho Equipment

MONTANA

Billings Seitz Machinery Co., I

Butte Hall-Perry Machinery

Helena Caird Engineering Wo

Montana Powder & Equipment

Missoula Mountain Tractor

Kalispell Treasure State Equipment

Sidney Tractor & Equipment

NEVADA

Elko A-D Machinery Co., I

Reno Nevada Equipment Service, I

Sierra Machinery Co., I

NEW MEXICO

Albuquerque J. D. Coggins

Contractors Equipment & Supply

The Winter Weiss Co. of New Mex

OREGON

Cave Junction Illinois Valley Hardw

Klamath Falls Haupt Tractor

J. W. Kerns, Oregon, L

Moty & Van Dyke, I

Haupt Tractor

Medford Andrews & Andrews Equipment

Portland Balzer Machinery

M. F. Brady Equipment

Clyde Equipment

Cramer Machinery

Crooks

Feenaughty Machinery

Howard-Cooper Co

Loggers & Contractors Machinery

Nelson Equipment

Western Equipment

UTAH

Salt Lake City... Arnold Machinery

Heiner Equipment & Supply

Kimball Equipment

Lang Construction Equipment

Lund Machinery

Rasmussen Equipment

Rocky Mountain Machinery

Western Machinery

Wheeler Machinery

WASHINGTON

Seattle Air-Mac, I

Andrews Machinery of Washington

Clyde Equipment

Feenaughty Machinery

Modern Machinery Co., I

Pacific Hoist & Derrick

Totem Equipment

Washington Machinery

Spokane Andrews Equipment Serv

Ferris Equipment

Feenaughty Machinery

General Machinery

Intermountain Equipment

Modern Machinery Co., I

Western Machinery

WYOMING

Casper Moss Equipment & Supply

Studer Tractor & Equipment

Cheyenne Kerami Tractor & Equipment

Wortham Machinery

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
 Northern Life Tower, Seattle

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

GICK 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.

Northwest District Representative
WASHINGTON
 Seattle, 1732 E. 106th St. Richard J. Ravenscroft
Southwest District Sales Manager
CALIFORNIA
 Manhattan Beach, 1817 John St. Wm. C. Kerr

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 Co.
 Lancaster R. J. Wayne Co.
 Montclair Acme Rents
 Oakland Wolfe & Sons
 Ontario Ricker Machinery Co.
 Oxnard A. A. Equipment-Wolfe & Sons
 Porterville Maulhardt Equipment Co.
 Redding 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 Madden Construction & Supply Co.
 Helena Montana Powder & Equipment Co.

NEVADA
 Las Vegas Inland Service & Supply Co.
 Reno General Equipment Co.

NEW MEXICO
 Albuquerque R. L. Harrison Co., Inc.

OREGON
 Medford Cal-Ore Machinery Co., Inc.
 Portland Balzer Machinery Co.
 W. J. Burke & 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; Utility Handspray Units.

Distributors

ALASKA
 (Seattle) The Carrington Co.

ARIZONA
 Phoenix Superior Equipment Co.
 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 NorMont Equipment Co.
 Kalispell Treasure State Equipment Co.

NEVADA
 Las Vegas Clark County Wholesale Merc. Co.
 Reno Sanford Tractor & Equipment Co.

(Continued in next column)

E. D. Etnyre & Co. (Cont'd)

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 Parker 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.

Factory Branch Manager
CALIFORNIA
 LaPuente, 125 N. Vineland Ave. G. A. Wynkoop

Western Regional Manager
CALIFORNIA
 Oakland, Rm. 360, El Dorado Bldg., 360-22nd St. M. H. Johnson

District Sales Representatives

COLORADO
 Denver, 4690 E. Idaho Place O. A. Lee

WASHINGTON
 Seattle, 12844 Shorecrest Drive S. T. Wyndham
 Spokane, E. 633 21st Ave. J. S. Spilman

Distributors

ALASKA
 Anchorage Evans Engine & Equipment Co., Inc.

ARIZONA
 Phoenix Min-A-Con Equipment Co.

CALIFORNIA
 Sacramento Northern California Euclid, Inc.
 San Francisco Northern California Euclid, Inc.

COLORADO
 Denver The Colorado Builders Supply Co.

HAWAII
 Kahului, Maui Maui Equipment Co.
 Honolulu American Factors, Ltd.

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., Inc.

NEW MEXICO
 Albuquerque Lively Equipment Co.

OREGON
 Eugene Interstate Tractor & Equipment Co.
 Portland Interstate Tractor & Equipment Co.

UTAH
 Salt Lake City Archer Tractor & Machinery Co.

WASHINGTON
 Seattle Evans Engine & Equipment Co.
 Spokane Intermountain Equipment Co.

WYOMING
 Casper The Colorado Builders Supply Co.

EVEREADY BRIKSAW CO.

1104 Union Avenue
Kansas City 1, Missouri

PRODUCTS: Masonry and Concrete Saws; Diamond and Break-Resistant Abrasive Blades for masonry and concrete sawing; Cup Grinding Wheels; Raised Hub-Wheels.

Distributors

ARIZONA
 Phoenix Baker-Thomas Co.
 Waco Scaffolding Co.

TUCSON
 Industrial Tool & Supply Co.

CALIFORNIA
 Fresno Edward R. Bacon Co.
 San Joaquin Materials Co.
 Los Angeles Calmo Engineering Co.
 Waco-May Scaffolding Co.

Oakland
 Edward R. Bacon Co.

Sacramento
 Edward R. Bacon Co.

(Continued in next column)

Eveready Briksaw Co. (Cont'd)

San Diego Southern Equipment & Supply Co.
 San Francisco Edward R. Bacon Co.
 E. J. Bartells Co.
 Santa Barbara Coleman Building Materials
 Santa Monica Higgins Building Materials Co.
 Stockton Waco Scaffolding Co.

COLORADO
 Denver Denver Service & Material Co.
 Western Machinery Co.
 Grand Junction Western Machinery Co.

IDAHO
 Idaho Falls Ideal Hardware Co.
 Pocatello Masonry Supply Center

MONTANA
 Billings Hall-Perry Machinery Co.
 Butte Hall-Perry Machinery Co.
 Great Falls Hall-Perry Machinery Co.
 Helena Montana Powder & Equipment Co.
 Missoula Hall-Perry Machinery Co.

NEW MEXICO
 Albuquerque Frank's Supply Co.
 Carlsbad Carlsbad Black & Supply Co.
 Mine & Mill Supply Co.
 Clovis Mauldin Lumber Co.
 Farmington Frank's Supply Co.
 Hobbs Leaco Company
 Roswell Builders Block & Stone Co.

OREGON
 Eugene Scobert Building Materials
 Portland E. J. Bartells Co.
 Scaffold Equipment Co.

UTAH
 Salt Lake City Clyde G. Larsen Co.
 Lynn Hansen Scaffold Co.
 Western Machinery Co.

WASHINGTON
 Pasco Western Materials Co.
 Seattle E. J. Bartells Co.
 S. F. Frazier
 Star Machinery Co.
 E. J. Bartells Co.
 Ferris Equipment Co.
 Tacoma E. J. Bartells Co.
 Yakima Yakima Cement Products Co.

F.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.

Distributors

ARIZONA
 Phoenix Welch Manufacturing Co.

CALIFORNIA
 Oakland Fabco Equipment Co.

COLORADO
 Denver The Woerber Auto Body & Mfg. Co.

IDAHO
 Boise Boise-White Truck & Equipment 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.

FWD CORPORATION

East 12th Street
Clintonville, Wisconsin

PRODUCTS: All Wheel Drive and Rear Drive Trucks; Crane Carriers; Fire Engines; Wheel Tractors.

District Sales Managers

CALIFORNIA
 Millbrae, 837 Hawthorne Way. Ronald C. Gehrke
 Pomona, 1864 Westwood Place Jack Kelly

Distributors

ALASKA
 Anchorage Airport Machinery Co., Inc.

ARIZONA
 Flagstaff Whiting & Whiting
 Phoenix Arizona Cedar Rapids Co.

(Continued on next page)

C.I.T.'s Engineered Finance Plans fit the needs of contractors and distributors

36

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.
 San Nuy, 13907 Chandler Blvd.

Distributors
CALIFORNIA
 Los Angeles.....Tractor-Equipment Distributors
 Mountain View.....Mark Tuban Ford Ind. Prod. Co.
COLORADO
 Denver.....L. D. Bax
REGON
 Portland.....Columbia Tractor & Implement Co.
IAH
 Salt Lake City.....Petty Motor Co.
WASHINGTON
 Seattle.....Smith-Grandy, Inc.

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.....McCarty-Sherman Distributors
ONTANA
 Billings.....Wymont Tractor & Equipment Co.
REGON
 Portland.....Columbia Tractor & Implement Co.
IAH
 Salt Lake City.....Intermt. Ford Tractor Sales Co.

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 Manager.....T. W. Heming
 Sales Representative.....F. L. Martin
 Sales Representative.....N. M. Sullivan
 Industrial Sales Representative.....R. A. Pender
 Parts Representative.....J. W. Bressler
 Service Representative.....D. A. Johnson
 Service Representative.....H. D. Wark

Distributors
CALIFORNIA
 Los Angeles.....Tractor-Equipment Distributors, Inc.
 Richmond.....Pacific Tractor & Implement Co.
COLORADO
 Denver.....McCarty-Sherman Distributing Corp.
ONTANA
 Billings.....Columbia Tractor & Implement Co.
REGON
 Portland.....Columbia Tractor & Implement Co.
IAH
 Salt Lake City.....Intermt. 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. Shella St.....W. H. Klein
 San Jose, P.O. Box 1181.....J. A. King
COLORADO
 Denver, Box 5588.....C. H. Arnold
UTAH
 Salt Lake City, 414 W. 3rd So. 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.

FRAM CORPORATION
Providence 16
Rhode Island

PRODUCTS: Filters—oil, air, fuel and water.
 Available through automotive suppliers throughout the West

FRICTION MATERIALS CO.
695 South Santa Fe Avenue
Los Angeles 21, California

PRODUCTS: Brake and Clutch Parts, Linings, Facings, etc., for trucks, tractors, shovels, hoists and cranes.

Division Warehouses
CALIFORNIA
 Los Angeles
 2020 S. Grand Ave.....Davison-Conroy, Inc.
 Oakland—555 Fifth Ave.....R. W. Conroy Co.
OREGON
 Portland
 911 S.E. Hawthorne Blvd....R. W. Conroy Co.

Distributors
CALIFORNIA
 Compton.....Compton Friction Materials Co.
 El Monte.....El Monte Friction Materials
 Fresno.....Fresno Friction Materials
 Long Beach.....Friction Materials Co. of Long Beach
 No. Hollywood.....Valley Friction Materials
 Oakland.....Friction Materials, Inc.
 San Francisco.....Friction Materials Corp.
 San Jose.....San Jose Friction Materials Co.
 Stockton.....Clutch and Brake Exchange

FRUEHAUF TRAILER CO.
1444 South Alameda
Los Angeles, California

PRODUCTS: Commercial Truck-Trailers; Truck Bodies and Six-Wheel Attachments.

Factory Branches
ARIZONA
 Phoenix—Manager.....M. A. Rampy
CALIFORNIA
 Fresno—Manager.....Russ Lowry
 Los Angeles—Manager.....H. L. Chaille
 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 St.....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 Swinging Gates; Continuous Concrete Pipe Machines.

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.....R. Fuller Co.
 Safford.....Gila Valley Concrete Co.
 Tolleson.....R. Fuller Co.
 Willcox.....Fullerform-Wilcox
 Yuma.....James F. Bianconi
CALIFORNIA
 Avenal.....Fullerform Concrete Ditch Lining Co.
 Bakersfield.....Fullerform-Bakersfield
 Chico.....Butte Creek Rock Co.
 Coachella.....Concrete Valley County Water District
 Daggett.....Cool Water Ranch
 El Centro.....Chas. R. Bratton
 Los Banos.....Robal Ditch Construction Co.
 Woodland.....John D. Winn Concrete Ditch Liners

COLORADO
 Denver.....Accessory Supply Co.
 Fort Morgan.....Jacob Dorn & Son
 Grand Junction.....Redlands Water & Power Co.
 Greeley.....Torrez Construction Co.
 Chas. E. Willson & Co.
 Lamer.....Valley Concrete Co.
 Pueblo.....Southern Contractors, Inc.
 Rocky Ford.....Valley Concrete Co.
HAWAII
 Eleele, Kauai.....McBryde Sugar Co.
IDAHO
 Fruitland.....Rex Johnson
 Idaho Falls.....Taylor Lott
 Oakley.....W. B. Whiteley
 Twin Falls.....P. & E. Concrete Co.
MONTANA
 Billings.....Torrez Construction 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 Products Co.

UTAH
 Cedar City.....Kenneth C. Clark
 Parry Sand & Gravel
 Lehi.....Alpine Soil Conservation District
 Pleasant Grove.....Warburton Ready-Mix Concrete
 St. George.....George J. Jennings
 Tremonton.....Germer, Abbott & Waldron

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
 (Continued on next page)

C.I.T. Loans on Equipment Fleets increase contractors working capital funds

GMC Truck & Coach Div. (Cont'd)**COLORADO**

Denver, 1910 - 38th St. L. N. Olson

UTAH

Salt Lake City, 974 S. Main St. G. C. McCluskey

WASHINGTONSeattle, 600 Fifth Ave. So. R. B. Bower
Dealers in all principal cities.**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

NEBRASKAOmaha
55 Neptune Pl., Carter Lake .. G. J. Bockmann**Distributors****ARIZONA**

Tucson Bogard GMC Co.

CALIFORNIA

Los Angeles Jumbo Equipment Co.

Santa Ana Santa Ana 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 Representative

CALIFORNIA

Altadena-3273 Mt. Curve Dan Penkoff

Distributors**ALASKA**

(Seattle) The Carrington Co.

ARIZONA

Phoenix Copper State Tractor Co.

Tucson F. Ronstadt Hardware Co.

(Albuquerque) J. D. Coggins Co.

CALIFORNIA

Bakersfield J. D. Coggins Co.

Colton Wilson Equipment Co.

Five Points Allied Equipment Co.

Fresno Allied Equipment Co.

Madera Allied Equipment Co.

Oakland Bay Cities Equipment Co.

Reedley Allied Equipment Co.

(Reno) Sanford Tractor & Equipment Co.

Sacramento Sacramento Valley Tractor Co.

Salinas Farmers Mercantile Co.

Santa Maria Hansen Equipment Co.

Santa Rosa Stevenson Equipment Co., Inc.

Stockton Delta Tractor Co.

Stratford Orton's Equipment Co., Inc.

Watsonville Farmers Mercantile Co.

COLORADO

Denver, Durango and

Grand Junction .. H. W. Moore Equipment Co.

IDAHO

Boise Lang Construction Equipment Co.

Idaho Falls Lang Construction Equipment Co.

(Spokane) Modern Machinery 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

(Boise) Lang Construction Equipment Co.

Portland Balzer Machinery Co.

UTAH

Salt Lake City .. Lang Construction Equipment Co.

(Continued in next column)

**The Galion Iron Works & Mfg. Co.
(Cont'd)****WASHINGTON**

(Portland) Balzer Machinery Co.

Seattle A. H. Cox & Co.

Spokane Modern Machinery Co.

Yakima Daniel Equipment Co.

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.

HAWAII

Honolulu Edward R. Bacon Co. of Hawaii, Ltd.

IDAHO

Boise Intermountain Equipment Co.

MONTANA

Butte Hall-Perry Machinery Co.

NEW MEXICO

Albuquerque Contractors Equip. & 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 Western Machinery 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 O. 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.

(Continued in next column)

Gardner-Denver Co. (Cont'd)**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 Gallagher Company

Lang Construction Eqpt. Co.

Moab Plateau Hardware, Inc.

WASHINGTON

Seattle Air Equipment Rentals, Inc.

Spokane Modern Machinery Co.

GAR WOOD INDUSTRIES, INC.South Fourth & Wright Avenue
Richmond, California**PRODUCTS:** Hoists and Dump Bodies; Winches;
Cranes; Derricks; Bottom Dump Hopper
Bodies; Elevating End Gates; Hi-Lift Hoists;
Load-Packer and Speed-Packer Refuse Col-
lection Bodies; National Lift Jumbo Hoists;
Pick-Up Dump-O-Matic Hoists; Lift-O-Matic
Tailgate Lifts.

Factory Branch Manager

CALIFORNIA

Richmond-Bay Area Sales Earl Berthold

Sales Offices**CALIFORNIA**

Richmond-Division Manager M. L. Shepard

Richmond-District Manager Geo. F. Martin

COLORADO

Boulder-District Manager W. E. Rance

Distributors**ARIZONA**

Phoenix Allison Steel Mfg. Co.

CALIFORNIA

Bakersfield California Truck & Ind. Equip. Co.

Fresno Ruckstell California Sales Co.

Los Angeles

Gar Wood-Los Angeles Truck Equip., Inc.

Pomona

Gar Wood-Los Angeles Truck Equip., Inc.

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 Pearce Equipment & Steel Co.

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-Wa-
Wideners; Finegraders and Spreaders.

Regional District Manager

CALIFORNIA

Richmond, S. 4th & Wright Ave.

J. A. Sommerville

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

COLORADO

Denver Western Machinery Co.

IDAHO

Idaho Falls Southern Idaho Equipment Co.

MONTANA

Billings Seitz Machinery Co., Inc.

Great Falls Seitz Machinery Co., Inc.

(Continued on next page)

C. I. T. CORPORATION120 Montgomery Street, San Francisco
Northern Life Tower, Seattle416 West 8th Street, Los Angeles
Equitable Building, Portland

Gar Wood Industries, Inc. (Cont'd)

IDAHO
 Elko A-D Machinery Co.
 Reno Reno Equipment Sales Co.
NEW MEXICO
 Albuquerque Lively Equipment Co.
OREGON
 Portland Cramer Machinery Co.
UTAH
 Salt Lake City Western Machinery Co.
WASHINGTON
 Seattle Air-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 Ave.
 J. A. Sommerville

Distributors
ARIZONA
 Phoenix Equipment Sales Co.
CALIFORNIA
 El Monte Warnock-Bancroft Equipment Co.
 Oakland Buran Equipment Co.
 N. Sacramento Industrial Tractor Sales
COLORADO
 Denver Western Machinery Co.
MONTANA
 Billings Seitz Machinery Co., Inc.
 Great Falls Seitz Machinery Co., Inc.
NEW MEXICO
 Albuquerque Lively Equipment Co.
OREGON
 Portland Cramer Machinery Co.
WYOMING
 Casper Studer Tractor & Equipment Co.

HARRISON 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.
CALIFORNIA
 Los Angeles Calavar Corporation
 White Motor Co.
IDAHO
 Boise Boise White Truck & Equip. Co.
NEVADA
 Reno Sierra Truck & Trailer Co.
OREGON
 Albany Oregon Truck Sales
 Portland White Motor Co.
UTAH
 Salt Lake City Linder & Wood White Motor Sls.
NEW MEXICO
 Albuquerque Inland White Truck Co.
WASHINGTON
 Spokane Jones White Truck Co.
WYOMING
 Casper Century White Truck Co., Inc.

THE GATES RUBBER CO.
 999 South Broadway
 Denver 17, Colorado

PRODUCTS: Heavy Construction Accessories—tires, hose, V-belts, etc.
 District Manager J. E. Chiles

Sales offices in all major cities

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.

GENERAL ENGINES CO.
 Route 130
 Thorofare, New Jersey

PRODUCTS: Rollers (asphalt); 1 and 2-ton Trailers; Cinder Block Machines; Dry Batch Mixers; Conveyors.

Distributors
 Contact Manufacturer.

THE GENERAL TIRE & RUBBER CO.
 1708 Englewood Avenue
 Akron 9, Ohio

PRODUCTS: All types of Tires and Tubes; Retread service and repair.

Factory Branch Managers
CALIFORNIA
 Burlingame, 35 Ingold Road. Morgan J. Morgan
 City of Industry, 717 S. Nogales St. J. S. Hanse
COLORADO
 Denver, 5050 N. Colorado Blvd. Ray H. Fast
OREGON
 Portland, 2840 N.W. 35th St. John L. Scialli

Distributors
 See your local tire dealer.

BEN C. GERWICK, INC.
 120 Montgomery Street
 San Francisco 5, California

PRODUCTS: Precast Prestressed Concrete Products for piling, bridges, buildings, and marine projects.

Factory Branch
CALIFORNIA
 San Pedro Wilmington-San Pedro Road

GILSON BROTHERS CO.
 Fredonia, Wisconsin

PRODUCTS: Concrete Mixers; Mortar and Plaster Mixers.

Distributors
ARIZONA
 Tucson State Tractor & Equipment 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. Machinery Co.
HAWAII
 Honolulu Central Pacific 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: Road Making and Maintenance Equipment.

Distributors
ALASKA
 (Seattle) Northern Commercial Co.
ARIZONA
 Phoenix Superior Equipment Co.
CALIFORNIA
 Los Angeles B. Hayman Co., Inc.
 San Francisco Western Traction Co.
COLORADO
 Denver Woerber Auto Body & Mfg. Co.
IDAHO
 Boise Southern Idaho Equipment Co., Inc.
 (Continued in next column)

The Gledhill Road Machinery Co. (Cont'd)

MONTANA
 Billings Western Construction Equipment
 Great Falls Western Construction Equipment
 Kalispell Westmount Tractor & Equip. Co.
 Missoula Westmount Tractor & Equipment Co.
NEVADA
 Reno Sierra Machinery Co.
NEW MEXICO
 Albuquerque The Cornelius Co.
OREGON
 Portland Edward L. Kropp Co.
UTAH
 Salt Lake City Rasmussen Equipment Co.
WASHINGTON
 Seattle Air-Mac, Inc.
 Northern Commercial Co.
WYOMING
 Cheyenne Keremi Tractor & Equip. Co.

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; TG-500 Tailgate Spreaders (ice control and sealcoating).

Distributors
ALASKA
 Anchorage Craig Taylor Equip. & Supply Co.
ARIZONA
 Phoenix Western Machinery Co.
CALIFORNIA
 City of Industry Smith Booth Usher Co.
 San Francisco A. L. Young Machinery Co.
COLORADO
 Denver Evans Equipment Co., Inc.
IDAHO
 Boise Intermountain Equipment Co.
MONTANA
 Billings Seltz Machinery Co.
 Helena Montana Powder & Equipment Co.
NEW MEXICO
 Albuquerque Contractors Equip. & 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
 S. San Francisco, 221 E. Grand. Robt. Steinke
COLORADO
 Denver, 1033 Santa Fe Dr. Burford Peck
OREGON
 Portland, 1111 N.W. 16th Leon Moss
UTAH
 Salt Lake City, 631 S. 2nd West Don 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. Seliger
 San Francisco, 1950 Army St. O. K. Lynn
 (Continued on next page)

C.I.T.'s Pay-As-You-Depreciate Plan provides long term financing for equipment purchases

The B. F. Goodrich Co. (Cont'd)**COLORADO**

Denver, 2500 W. 8th Ave.....W. W. Morris

OREGON

Portland, 4600 N.W. St. Helens Road

.....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

Distributors**CALIFORNIA**

Los Angeles.....A. B. Boyd Co.

San Francisco.....A. B. Boyd Co.

COLORADO

Denver.....Clark Foam Rubber & Fabrica

IDAHO

Boise.....Idaho Acoustical & Bldg. Specialties Co.

OREGON

Portland.....A. B. Boyd Co.

WASHINGTON

Seattle.....A. B. Boyd Co.

THE GOODYEAR TIRE & RUBBER CO.6701 South Central Avenue
Los Angeles 56, 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 Ave.

R. W. Maney.....Vice-President

C. T. Clark.....Plant Manager

C. A. Crafts.....Region Manager

R. G. Abbott.....Manager—Industrial Products Div.

District Managers**ARIZONA**

Phoenix, 2030 W. Filmore St....R. R. Sawdey

CALIFORNIA

Los Angeles, 6666 E. Wash. Blvd.

So. Calif. District.....E. C. Heldeman

Industrial Products.....B. L. Lockridge

Sacramento, 1724-10th St.....A. Piquette

San Francisco, 1717 Harrison St.....J. C. Jolley

Industrial Products.....H. L. Narwitz

COLORADO

Denver, 1030 W. 3rd Ave.....H. H. Horner

1207 Wazee St., Ind. Products..W. T. Delcor

MONTANA

Billings, 2102 2nd Ave. N....H. A. Anderson

OREGON

Portland, 2720 N.W. 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....C. V. McGuire

Managers—Retread Plants**CALIFORNIA**

Los Angeles, 6701 S. Central....V. L. Moxon

COLORADO

Denver, 3557 Wazee St.....C. Cowles

WASHINGTON

Spokane, 220 W. Main St.....J. Clavel

THE GORMAN-RUPP CO.305 Bowman Street
Mansfield, OhioPRODUCTS: Self-Priming Centrifugal Pumps; Dia-
phragm Pumps.**District Representative****CALIFORNIA**

Palo Alto, 110 Walter Hays Dr...Robt. L. Nicolai

Distributors**CALIFORNIA**

Arcata.....Loggers & Mill Supply Co.

Bakersfield...Brown-Bevis Industrial Equip. Co.

Los Angeles

Harron, Rickard & McCone of So. Calif.

N. Sacramento.....Industrial Tractor Sales

Oakland.....Cook Bros. Truck & Equipment Co.

Redding.....Paul Droscher Sales

Shasta Truck & Equipment Sales

San Diego.....Gould Hardware & Machinery Co.

Stockton.....Delta Tractor Co.

COLORADO

Denver.....Faris-Moritz Equipment Co.

IDAHO

Boise.....Lang Construction Equipment Co.

MONTANA

Billings.....Western Construction Equipment Co.

Great Falls.....Western Construction Equipment Co.

NEVADA

Reno.....Reno Equipment Sales Co.

Tractor Equipment Co.

NEW MEXICO

Albuquerque.....The Cornelius Co.

Farmington.....The Cornelius Co.

OREGON

Eugene.....Western Equipment Co.

Portland.....Andrews & Andrews Equipment

Western Equipment Co.

UTAH

Salt Lake City.....Lang Construction Equip. Co.

WASHINGTON

Seattle.....Pacific Hoist & Derrick Co.

Spokane.....Andrews Equip. 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; Sheepfoot Rollers;
Asphalt Distributors; Asphalt Pumps; Pneum-
atic Rollers, trailed and self-propelled;
Spreaders, chip and asphaltic concrete; Drag
Brooms.

Distributors**ARIZONA**

Phoenix.....Equipment Sales Co.

CALIFORNIA

Los Angeles...Brown-Bevis Industrial Equip. Co.

COLORADO

Denver.....Joe Smith Machinery Co.

MONTANA

Billings.....Industrial Equipment Co.

NEVADA

Reno.....General Equipment Co.

NEW MEXICO

Albuquerque...Contractors Equip. & Supply Co.

UTAH

Salt Lake City.....Lang Construction Equip. Co.

GRAY CO., INC.60-11th Avenue, N.E.
Minneapolis 13, Minnesota

PRODUCTS: Portable Field Lubricating Equipment;
Grease Rigs; Contractors' Lubricating Equip-
ment; Paint Spray Equipment; Putty Pumps;
Water Repellent Application Equipment;
Equipment for applying highway joint seal-
ant.

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.....Wm. H. Byers

(Continued in next column)

Gray Co., Inc. (Cont'd)**COLORADO**

Denver, 894 Dahlia #16.....W. G. Egloff

2140 E. 14th Ave.....E. H. Bowen

WASHINGTON

Seattle, 3455-33rd Ave. W....Andrew. Tapa

GREENVILLE STEEL CAR CO.Union Street
Greenville, PennsylvaniaPRODUCTS: Tractor Mounted Rock Ripper; Hy-
draulic Scrapers.DISTRIBUTORS: International Harvester Industri-
al Dealers.**GRIPHOIST, INC.**744 Harrison 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-3
—heavy duty companion product weighing
only 60 lbs., 3-ton capacity, uses 3/8" wire
rope.

Distributors**ALASKA**

Anchorage.....Bashaw Equipment Co.

Fairbanks.....Miller & Bentley

Bashaw Equipment Co.

ARIZONA

Phoenix.....Arizona Welding Equipment Co.

Complete Industrial Supply

Tucson.....AWECO Supply Co.

Complete Industrial Supply

CALIFORNIA

Chico.....Jeffery Brothers

El Monte.....Warnock-Bancroft Equipment Co.

Fresno.....Fresno Wire Rope & Rigging Co.

Los Angeles.....John A. Batchelor Co.

Cable Distributor

Fornaciari Company

Stanley E. Morris Co.

Oakland.....Bowlin Equipment Co.

San Francisco.....Weeks-Howe-Emerson

C. H. Bull Co.

Leboese Sales

San Gabriel.....Abernathy & Co.

Stockton.....Stockton Iron Works

COLORADO

Denver.....Tudor Equipment Co.

Union Supply Co.

HAWAII

Honolulu.....Theo. H. Davies & Co., Ltd.

IDAHO

Boise.....Intermountain Equipment Co.

Wallace.....Coeur d'Alene Hardware & Fdry. Co.

MONTANA

Butte.....Montana Hardware Co.

NEW MEXICO

Albuquerque.....J. E. Green Co.

OREGON

Portland.....Andrews & Andrews Equipment

George M. Philpott Co.

Salem.....Salem Steel & Supply Co.

UTAH

Salt Lake City.....Holland Equipment Co.

WASHINGTON

Seattle.....Clyde Equipment Co.

Industrial Products Co.

Rice Sales Co.

Tacoma.....St. Paul & Tacoma Lumber Co.

**GUNTERT & ZIMMERMAN
CONST. DIV., INC.**P.O. Box 1688
Lindsay and Monroe Streets
Stockton, California

PRODUCTS: Batch Plants; Batchers; Blins; Concrete
Placing Equipment; Belt Conveyors; Dredg-
ing Equipment; Dredges; Steel, Tunnel and
Dam Forms; Screens; Subgraders; Vibrators;
Aggregate Washing Plants; Tugs; Barge
Cranes; Highway Machines.

C. I. T. CORPORATION120 Montgomery Street, San Francisco
Northern Life Tower, Seattle416 West 8th Street, Los Angeles
Equitable Building, Portland

I & 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.
Porterville.....Brown Machinery 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.....Construction Machinery 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.

7700 S. W. 69th Avenue
Portland 23, Oregon

PRODUCTS: Dry Air Filters; Pre-Cleaners; Oil Bath Air Cleaners; Exhaust Spark Arrestors; Rain Caps; Rain Traps; Truck Mufflers; Air Pre-cleaners; Air Filtrators; Fuel/Water Separators.

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.....The Cornelius Co.
OREGON
Portland.....Columbia Tractor & Implement Co.
Oil Filter Service Co.
WASHINGTON
Spokane.....Carburetor & Electric Co.
(Portland).....Oil Filter Service Co.

HARDWICKE-ETTER CO.

301-309 East Houston Street
Sherman, Texas

PRODUCTS: 9 and 11-ton Truck Cranes; 3/8 and 1/2-yard Truck Mounted Back Hoes; 3/8 and 1/2-yard Truck Mounted Power Shovels; 10 and 13-ton Off-Highway Carriers.

District Manager

ARIZONA
Phoenix, 905 E. Cambridge..Gary L. Granville

Distributors

ARIZONA
Phoenix.....Neil B. McGinnis Equipment Co.
CALIFORNIA
Berkeley.....Central Equipment Co.
Hayward.....Central Equipment Co.
Los Angeles.....LeRoi-Rix Machinery Co.
No. Sacramento.....Central Equipment Co.
San Diego.....Construction Machinery Co.
San Francisco.....Rix Co., Inc.
IDAHO
Idaho Falls.....Western Machinery Co.
NEVADA
Reno.....Scherupp Equipment Co., Inc.
OREGON
Eugene.....Western Equipment Co. of Eugene
UTAH
Salt Lake City.....Foulger Equipment Co.
WASHINGTON
Seattle.....Washington Machinery Co.
WYOMING
Casper.....Western Equipment 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; Accumulators; Printers and Recorders.

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.
Norman Sutliff

IDAHO
Boise.....Western Conveyor Co.
OREGON
Portland.....Larson & Beardson
UTAH
Salt Lake City.....Douglas Scale & Equipment Co.
WASHINGTON
Federal Way.....Larson & Beardson
Seattle.....Washington Machinery
Spokane.....Spokane Machinery
Vancouver.....Columbia Machine Co.

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 and Plant

CALIFORNIA
Los Angeles—General Manager.....B. Prette

Factory Branches

ARIZONA
Phoenix—District Manager.....J. H. Taylor
(Continued in next column)

Harnischfeger Corp. (Cont'd)

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 & Equip. 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 Welders Sup. Co. (WR)
H. I. Tullis (WR)
Los Angeles.....Absco Welding Supplies (H-WR)
Brown-Beris Industrial Equip. Co.
P. George Pennington Co. (WR)
H. C. Witherspoon Co. (WR)
Oakland.....Blakemore Equipment Co.
Ontario.....A & R Equipment Co. (WR)
Redding.....Paul Droscher Sales (WR)
Sacramento.....Capitol Machine Works (H)
Salinas.....Farmers Mercantile Co. (WR)
Lacey Automotive Parts Co. (WR)
San Diego.....Production Tools, Inc. (WR)
Southern Equip. & Supply Co. (WR)
San Francisco.....Federal Pipe & Supply Co.
General Conveyor, Inc. (H)
Ira G. Perin 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.....Hickinbotham Bros., Ltd. (WR)
COLORADO
Denver.....General Welding Supply Co. (H-WR)
Liberty Truck & 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—Cont. Equip. & Supply Co. (X-WR)
Leonard Motor Co. (WR)
OREGON
Eugene.....American Steel & Supply Co. (H-WR)
Klamath Falls.....Moty & Van Dyke (WR)
Portland.....Loggers & Cont. 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.....Koepsel & Love (WR)
WASHINGTON
Aberdeen.....Industrial Elec. Service Co. (H-WR)
Bellingham.....Ekdhall & 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)

HAUCK MANUFACTURING CO.

124-136 Tenth Street
Brooklyn 15, New York

PRODUCTS: Oil and Gas Burning Asphalt Kettles; Portable Heaters, Oil and Gas; Oil Burners; Oil and Gas Burners for sand and stone.
(Continued on next page)

**C.I.T.'s Engineered Finance Plans fit the needs of
contractors and distributors**

Hauck Manufacturing Co. (Cont'd)**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.

B. 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.

THE HEIL CO.

3000 West Montana Street

Milwaukee 1, Wisconsin

PRODUCTS: Truck Bodies; Hydraulic Hoists; Hydraulic Tailgates; Refuse Collection Units.

Regional Managers**CALIFORNIA**

Los Angeles, 2999 W. 6th St. Len Anderson

COLORADO

Denver, 2034 First Nat'l. Bank Bldg. John Zimmerman

WASHINGTON

Seattle, 708 5th Avenue So. Joe Schaab

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

MONTANA

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 Equip. 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 Batches; Combination Batches; Universal Batches; Dual Aggregate Batches; Dustless Cement Batches; Dual Cement Batches; Twin Cement Batches; Cement Recirculators; Automatic Water Batches.

District Representative**CALIFORNIA**

Redondo Beach, P.O. Box 427 ... Ken Simpson

Distributors**ARIZONA**

Phoenix Equipment Sales Co.

CALIFORNIA

Bakersfield Brown-Bevis-Industrial Equip. Co.

Berkeley West Coast Engine & Equipment Co.

Los Angeles—Brown-Bevis-Industrial Equip. Co.

Oakland West Coast Engine & Equipment Co.

Riverside Brown-Bevis-Industrial Equip. Co.

Sacramento West Coast Engine & Equipment Co.

San Diego Brown-Bevis-Industrial Equip. Co.

(Continued in next column)

Heltzel Steel Form & Iron Co.**(Cont'd)**

San Jose West Coast Engine & Equipment Co.

Ventura Brown-Bevis-Industrial Equip. Co.

Ukiah West Coast Engine & Equipment Co.

COLORADO

Denver Constructors Equipment Co., Inc.

HAWAII

Honolulu Schuman Carriage Co.

IDAHO

Boise Starline Equipment Co.

MONTANA

Billings, Butte, Great Falls, Helena and Missoula

Montana Powder & Equipment Co.

NEW MEXICO

Albuquerque N. C. Ribble Co.

OREGON

Eugene Western Equipment Co. of Portland

Portland Western Equipment Co. of Portland

UTAH

Salt Lake City Atlas Equipment Co.

WASHINGTON

Seattle Totem Equipment Co.

Spokane General Machinery 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; Street Sweepers.

District Manager**OREGON**

Klamath Falls, 5112 Bryant St. C. E. Thurston

Distributors**CALIFORNIA**

Stockton The H. C. Shaw Co.

COLORADO

Denver Intermountain Wholesale, Inc.

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; 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.

Oroville Peterman Equipment Co.

Redding Oroville Cable & Equipment

Sacramento Lowry Equipment Co.

San Diego Westcott Machinery Co.

San Luis Obispo Farmers Hardware & Equip. Co.

Santa Rosa Stevenson Equipment Co.

Stockton Stockton Iron Works

Ukiah Holtz Co.

Willows Westside Tractor & Equipment Co.

(Continued in next column)

Hensley Equipment Co., Inc. (Cont'd)**COLORADO**

Grand Junction S & M Supply

Pueblo Colorado Road Machinery Co.

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.

NEW MEXICO

Albuquerque Lively Equipment Co.

OREGON

Brookings B & H Logging Supply

Eugene Interstate Tractor & Equipment

Medford Western Equipment Co.

Portland Cal-Ore Machinery Co.

Portland Interstate Tractor & Equipment

Portland Western Equipment Co.

UTAH

Salt Lake City Holland Equipment Co.

WASHINGTON

Seattle Pacific Hoist & Derrick

Seattle Western Machinery Co.

Seattle Western Tractor & Equipment

WYOMING

Casper Keremi Tractor & Equipment Co.

Cheyenne Keremi Tractor & Equipment Co.

HERCULES MOTORS CORP.

101 - 11th Street, S.E.

Canton, Ohio

PRODUCTS: Engines—gasoline and diesel.

Representative**CALIFORNIA**

Los Angeles, 2950 Belden Dr. J. E. Scales

Distributors**ARIZONA**

Phoenix Schuler & James, Inc.

CALIFORNIA

Bakersfield 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 Engineering Sales Service, Inc.

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 Mgr. W. F. McCandlish

San Francisco—Manager F. Geo. Trescher

UTAH

Salt Lake City—Manager L. W. Earl

Dealers are located in principal cities.

HERCULES STEEL PRODUCTS CO.

Sherman Street

Galion, Ohio

PRODUCTS: Batch Plants; Cylinders (Hydraulic); Dump Bodies; Hydraulic Hoists; Trailers; Truck Mixers; Lift Gates.

Distributors**ARIZONA**

Phoenix Southwest Truck Body & Equip. Co.

CALIFORNIA

Oakland Earl Sherman Co.

COLORADO

Alamosa McKah 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

cules Steel Products Co. (Cont'd)

ALL
Hawaiian Equipment Co., Ltd.
HAWAII
Hawaiian Equipment Co., Ltd.
IDAHO
B & M Wholesale Co.
ILLINOIS
H-C-L Equipment Co.
INDIANA
Newell Truck Equipment Co.
ISRAEL
Wagstaff Co.

HERINGTON & BERNER, INC.

101 Kentucky Avenue
Indianapolis 7, Indiana

PRODUCTS: Bituminous Mixing Plants; Dredging Equipment; Moto Pavers; Asphalt Paving Equipment; Asphalt Plants.

Distributors

COLORADO
Denver Western Machinery Co.
IDAHO
Salt Lake City Rocky Mountain Machinery Co.
ILLINOIS
Montana Powder & Equipment Co.
INDIANA
Portland Air-Mac, Inc. of Oregon
ISRAEL
Salt Lake City Rocky Mountain Machinery Co.
WASHINGTON
Spokane General Machinery Co.
WYOMING
Cheyenne Moss Equipment & Supply Co.

VI-DUTY ELECTRIC CO.

3002 West Burleigh Street
Milwaukee, Wisconsin

PRODUCTS: Dry-type Transformers for distribution, insulation and power.

Representative

CALIFORNIA
Fulver City, 10826 Venice Blvd.
Wm. Montgomery, Jr.

Distributors

CALIFORNIA
Phoenix Electrical Engineer & Sales Corp.
CALIFORNIA
San Francisco Eichorn & Melchior, Inc.
COLORADO
Portland Donal Co.
WASHINGTON
Seattle Muth-Richards Co.

WITT-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
Los Angeles, 2604 S. Malt Ave... G. V. Migula

District Managers

CALIFORNIA
San Francisco, 55 New Montgomery St.
T. C. Zinter
IDAHO
Salt Lake City, 458 S. Third St. E.
J. E. Van Stone

Field Engineers

CALIFORNIA
Phoenix, 207B Camelback Road... F. L. Brucker
COLORADO
Denver, 5075 Colorado Blvd... R. E. Johnson
COLORADO
Portland, 309 S.W. Third Ave... G. W. Vavrek
WASHINGTON
Seattle, 641 Dexter Horton Bldg... J. I. Previs

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
Veradale, P.O. Box 8... C. A. Meader

Distributors

ALASKA
(Seattle) The Carrington Co.
ARIZONA
Phoenix Equipment Sales Co.
CALIFORNIA
Los Angeles Brown-Bevis Industrial Equip. Co.
Redding Lowry Equipment Co., Inc.
Stockton Action Equipment Co.
COLORADO
Denver Faris-Moritz Equipment Co.
IDAHO
Boise Feenaughty Machinery Co.
G-K Machinery Co.
MONTANA
Billings Westate Machinery Co., Inc.
Butte Pioneer Equipment & Supply Co.
Great Falls Normont Equipment Co.
NEVADA
Reno Sierra Machinery Co., Inc.
NEW MEXICO
Albuquerque J. D. Coggins Co.
OREGON
Portland Feenaughty Machinery Co.
UTAH
Salt Lake City Atlas Equipment Co.
WASHINGTON
Spokane Feenaughty Machinery Co.
WYOMING
Cheyenne Wortham Machinery Co.

HIGHWAY TRAILER CO.

405 East Fulton Street
Edgerton, Wisconsin

PRODUCTS: Earth Boring Machines (truck and skid mounted); Truck Winches; Power Take-Offs; Pole and Cable Reel Trailers; Line Construction and Maintenance Bodies; Pole Derricks; Draw Bars; Towing Hooks.

Distributors

ARIZONA
Phoenix W. H. Eddy Electric Products, Inc.
CALIFORNIA
Los Angeles Calavar Corp.
San Francisco The F.W.D. Pacific Co.
COLORADO
Denver Macdonald Equipment Co.
UTAH
Salt Lake City Utah Truck Equipment Co.
WASHINGTON
Seattle Robblee Utilities Equipment
WYOMING
Casper Century White Truck Co.

HOBART BROTHERS

Hobart Square
Troy, Ohio

PRODUCTS: Electric or Gasoline Driven Arc Welders; Power Units; Combination Units; Welding Accessories and Electrodes.

Distributors

ALASKA
Juneau Nicholson Welding & Supply Co.
ARIZONA
Flagstaff Dye Oxygen Co.
Phoenix Dye Oxygen Co.
Phoenix Welding Supply Co.
Tucson Dye Oxygen Co.
Yuma Dye Oxygen Co.
CALIFORNIA
Bakersfield Bakersfield Welding Supply
Blythe Blythe Auto Parts
Emeryville Balaam Bros.
Fresno Sigler's
Los Angeles Anderson Equipment Co.
Hobart Welder Sales & Service
Modesto Livingston's Oxygen & Equip. Co.
Ontario A & R Equipment Co.
Oxnard Barnes-Duff Supply Co.
Pleasant Hill Myron A. King
San Bernardino Portugal Oxygen Co.
(Continued in next column)

Hobart Brothers (Cont'd)

San Diego Bailey Equipment Co.
Dill Industrial
National Cylinder Gas Division
San Francisco J. R. Zakis
San Jose A. G. Pond Co.
Santa Ana V. B. Anderson Co.
COLORADO
Colorado Springs Acetylene Service Co.
Denver Acetylene Service Co.
United States Welding Works Co., Inc.
Pueblo J. F. Damman Supply Co.

IDAHO

Boise Industrial Air Products Co.
Intermountain Equipment Co.

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.
Silver City Dye Oxygen Co.

OREGON

Medford Industrial Air Products Co.
Portland Welders Supply Co.
Industrial Air Products Co.

UTAH

Salt Lake City Whitmore Oxygen Co.

WASHINGTON

Kennewick Industrial Air Products Co.
Seattle Industrial Air Products Co.
Spokane Industrial Air Products Co.
Yakima Industrial Air Products Co.

WYOMING

Casper U. S. Welding Supply, Inc.

HOBBS 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

NEW MEXICO
Albuquerque, 824 Arno St. N.W... Bill Eubanks

Distributors

ARIZONA
Phoenix Auto Safety House
CALIFORNIA
Los Angeles Jeffries Truck Parts & Equip., Inc.
San Leandro M & H Truck & Trailer Co.
Vernon Conestoga Equipment Co.
COLORADO
Denver The Winter-Weiss Co.
IDAHO
Boise Williamsen Body & Equipment Co.
Pocatello Williamsen Body & Equipment Co.
NEVADA
Reno Reno Equipment Sales Co.
OREGON
Portland Douglas Hood Co.
UTAH
Ogden Williamsen Body & Equipment Co.
Salt Lake City Williamsen Body & Equip. Co.
WASHINGTON
Spokane Alloy Manufacturing Co.

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; Paving Breakers; Builders' Hammers.

Factory Branches

CALIFORNIA
Alhambra, 3000 W. Valley Blvd... Ralph Evans
Fresno, 2308 Ventura St... James Harmon
Sacramento, 2234 Auburn Blvd. Richard Dodelin
S. Francisco, 727 Airport Blvd.
Robert Glidden

(Continued on next page)

C.I.T. Loans on Equipment Fleets increase contractors working capital funds

Homelite, A Division of Textron, Inc. (Cont'd)

COLORADO
Denver, 1040 10th St.....Lou Roy Faylor

OREGON
Portland, 3436 S.E. Milwaukie....James Walsh

UTAH
Salt Lake City, 7440 Highway 91.Lynn Peterson

WASHINGTON
Seattle, 1911 22nd Ave., So...Doug Sherwood
Spokane, E. 3927 Trent Ave...Eugene LaMarche

A. C. HORN COMPANIES

**550 Third Street
San Francisco 7, California**

PRODUCTS: Construction Materials—Caulking, Roofing, Flooring, Waterproofing and Admixtures, Paints and Coatings, Maintenance and Miscellaneous Materials.

Factory Branch Managers

CALIFORNIA
Los Angeles, P.O. Box 3061....Harry Kennedy

COLORADO
Denver, 2050 W. 7th Ave.....Clyde Pooser

OREGON
Portland, 2438 N. Nesmith St...James P. Durcan

Regional Manager

CALIFORNIA (and 12 Western States)
San Francisco, 550 Third St...Stanford R. Horn

**THE FRANK G. HOUGH CO.
707 Sunnyside Avenue
Libertyville, Illinois**

PRODUCTS: Tractors and Tractor-Shovels.

District Managers

CALIFORNIA
Inglewood, 10509 Third Ave.....Merle Fate
San Mateo, 2538 S. Norfolk....R. G. Parsons

COLORADO
Denver, 1200 Pearl St., Apt. 206
.....Irving Jacobsen

UTAH
Murray, 5891 S. 75 W. Murray..John F. Yenney

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 Equip. Co.
Eureka.....Howard-Cooper Corp. of California
Five Points.....Allied Equipment Co.
Fresno.....Allied Equipment Co.
Los Angeles...Brown-Bevis Industrial Equip. Co.
Madera.....Allied Equipment Co.
Oakland.....Bay Cities Equipment, Inc.
Redding.....Howard-Cooper Corp. of California
Reedley.....Allied Equipment Co.
Riverside.....Brown-Bevis Industrial Equip. Co.
Sacramento...Sacramento Valley Tractor Co.
San Diego.....Southern Equip. & Supply Co.
San Jose.....Bay Cities Equipment Co., Inc.
Santa Maria.....Hanson Equipment Co.
Santa Rosa.....Stevenson Equipment Co., Inc.
Stockton.....Delta Tractor Co.
Stratford.....Orton's Equipment Co., Inc.
Tranquility.....Allied Equipment Co.
Ventura.....Brown-Bevis Industrial 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.
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.
(Continued in next column)

The Frank G. Hough Co. (Cont'd)

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.....Keremi Tractor & Equipment Co.
Cheyenne.....Keremi Tractor & Equipment Co.

HUBART METAL PRODUCTS CO.

**3853 Walnut Street
Denver 5, Colorado**

PRODUCTS: Portable Concrete Batch Plants (3½ and 6 yd. models); Portable Cement Silos; Hopper and Screw Elevators for sack cement; Belt Conveyors; Screw Conveyors; Screw Elevators; Bucket Elevators.

**Distributors
Contact Denver Office.**

HUBER-WARCO CO.

**202 N. Greenwood Street
Marion, Ohio**

PRODUCTS: Road Rollers; Motor Graders; Maintainers.

District Representative

CALIFORNIA
Danville, 154 Ramona Rd.....Jack McCaffrey

Distributors

ALASKA
Anchorage...Craig Taylor Equip. & 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 Tractor Co.
San Bernardino.Santa Fe Equipment Co., Inc.
San Francisco...Western Tractor Co.

COLORADO
Denver.....Farls-Moritz Equipment Co.

IDAHO
Boise.....The Sawtooth Company

MONTANA
Billings, Great Falls and Missoula
.....Miller Machinery Co.

NEVADA
Reno.....General Equipment Co.

NEW MEXICO
Albuquerque.....Equipment Sales Co.

OREGON
Portland.....Feenaughty Machinery Co.

UTAH
Salt Lake City...Archer Tractor & Mch. 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 City).....Foulger Equipment Co.

NEW MEXICO
Albuquerque.....Road Runner Equipment 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 City).....Foulger Equipment Co.

**HUNT PROCESS CO., INC.
7012 Stanford Avenue
Los Angeles 1, California**

PRODUCTS: Spraying Equipment for application of concrete curing compounds—automatically for paving, power driven for manual application.

Distributors

ARIZONA
Phoenix.....Baker-Thomas-Wood

CALIFORNIA
San Francisco.....A. R. Reid

COLORADO
Denver.....Colorado Builders Supply

HAWAII
Honolulu.....Grace B.

NEW MEXICO
Albuquerque.....Cobusco Steel Products

OREGON
Portland.....Mason Supply

UTAH
Salt Lake City...Cobusco Steel Products

WASHINGTON
Seattle.....Charles R. Watts

HYDRAULIC TOOL & EQUIPMENT CO., INC.

**1026 Engracia Avenue
Torrance, California**

PRODUCTS: Dozers; Scrapers; Scarifiers.

Factory Representatives

COLORADO (IDAHO, MONTANA, UTAH, WYOMING)
Fr. Collins.....T. V. Ma

ARIZONA (NEW MEXICO)
Phoenix.....R. Overstr

Distributors

CALIFORNIA (N)
Oakland.....H. E. Linney

OREGON
Portland.....Mitchell, Lewis & Sta

WASHINGTON
(Portland).....Mitchell, Lewis & Sta

HYSTER COMPANY

**2902 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; Caisson Rollers.

Regional Manager—Industrial Truck Division

CALIFORNIA
San Bruno, 3421 Crestmoor Drive
.....Donald R. Sh

Regional Representative—Industrial Truck Division

CALIFORNIA
Los Angeles, 7008 La Presa Drive
.....Victor B. H

Tractor Equipment District Representatives

CALIFORNIA
Oakland, 600 16th St.....Art Alex

OREGON
Portland, 2902 N.E. Clackamas St.
.....Graydon Broms and Dale

Dealers—Industrial Truck Division

ALASKA
(Seattle).....Northern Commercial

ARIZONA
Phoenix.....Equipment Sales

CALIFORNIA
Los Angeles.....Hyster Com
Branches:.....Fresno and San Di
San Francisco.....Hyster Com
Branches:.....Eureka and Sacram

COLORADO
Denver.....King & East Machinery Co.

HAWAII
Honolulu.....Electric Steel Foundry

IDAHO
Boise.....Hyster Sales
Idaho Falls.....Arnold Machinery Co.,
(Spokane).....Hyster Com

MONTANA
(Spokane).....Hyster Com
(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**

ter Company (Cont'd)

IDAHO
 (Los Angeles).....Hyster Company
 (San Francisco).....Hyster Company
 (It Lake City).....Arnold Machinery Co., Inc.

MEXICO
 (Guaymas).....Equipment Sales Co.

ONTARIO
 (Inland).....Hyster Sales Co.
 (Branch).....Medford

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

WASHINGTON
 (Seattle).....Hyster Company
 (Branches).....Spokane and Yakima
 (Portland).....Hyster Sales Co.

WYOMING
 (Cheyenne).....King & East Machinery Corp.
 (It Lake City).....Arnold Machinery Co., Inc.
 (Spokane).....Hyster Company

Dealers—Tractor Equipment Division

ALASKA
 (Sitka).....Northern Commercial Co.
 (Branches).....Anchorage, Fairbanks, Juneau, Ketchikan, Nome and Whitehorse

ARIZONA
 (Phoenix).....Empire Machinery Co.
 (Branches).....Flagstaff, Tucson
 (Tucson).....Braden Machinery Co.
 (Branch).....Wellton

CALIFORNIA
 (Fresno).....Honnen Machinery Co.
 (Fresno).....I. G. Zumwalt Co.
 (Branch).....Willows
 (Central).....Faure Tractor & Equipment Co.
 (Branch).....Brawley
 (Fresno).....Brizard-Matthews Machinery Co.
 (Branches).....Crescent City and Arcata
 (Fresno).....Budd & Quinn
 (Branches).....Firebaugh, Madera, Reedley
 (Inland).....Davies Machinery Co.
 (Branches).....Bakersfield, Corcoran, Delano, Wasco

LOS ANGELES
 (Branches).....Shepherd Machinery Co.
 (Branches).....Lancaster, Santa Ana
 (Marysville).....Marysville Tractor & Equip. Co.
 (Branches).....Robbins, Roseville
 (Modesto).....Valley Tractor Co.
 (Branches).....Los Banos, Merced
 (Fresno).....Berglund Tractor & Equipment Co.
 (Branches).....Santa Rosa, Willits
 (Fresno).....Wallace Machinery Co.
 (Branches).....Paso Robles, Santa Maria
 (Fresno).....Johnson Tractor Co.
 (Branches).....Coachella, Ontario
 (Fresno).....Weaver Tractor Co.
 (Branches).....Dixon, Walnut Grove, Woodland
 (Fresno).....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
 (Santa Ana).....Quinn Company
 (Branch).....Porterville

IDAHO
 (Boise).....Western Equipment Co.
 (Branches).....Burley, Idaho Falls, Pocatello, Twin Falls

NEVADA
 (Reno).....Nez Perce Tractor & Equipment Co.

NEW MEXICO
 (Albuquerque).....Nash-Davis Machinery Co.
 (Branches).....Bozeman, Greybull (Wyo.)
 (Great Falls).....Central Machinery Co.
 (Branches).....Havre, Lewiston
 (Missoula).....Westmont Tractor Co.
 (Branch).....Kalispell
 (Duluth).....Tractor & Equipment Co.
 (Branches).....Glasgow, Miles City

UTAH
 (Salt Lake City).....Cashman Equipment Co.
 (Branch).....Crooks Bros. Tractor Co.
 (Branch).....Elko

MEXICO
 (Guaymas).....R. L. Harrison Co., Inc.

ONTARIO
 (Inland).....Pape Bros., Inc.
 (Branches).....Coquille, Roseburg
 (Grande).....Crater Lake Machinery Co.
 (Branches).....Medford, Redmond
 (Grande).....Inland Machinery Co.
 (Branches).....Enterprise, John Day
 (Inland).....Western Equipment Co.
 (Portland).....Halton Tractor Co.
 (Branches).....Astoria, Salem

WASHINGTON
 (It Lake City).....Wheeler Machinery Co.

WASHINGTON
 (Ingleview).....Halton Tractor Co.
 (It Lake City).....N. C. Machinery Co.

(Continued in next column)

Hyster Company (Cont'd)

Branches: Mount Vernon, Port Angeles and Tacoma
 Northern Commercial Co.
 Spokane.....Byrne Machinery Co.
 Branch.....Ritzville
 Walla Walla.....Stone Machinery Co.
 Branch.....Dayton
 Wenatchee.....Columbia Tractor Co. of Wenatchee
 Branches.....Ephrata, 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; HeaTanks; 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—reinforcing 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 Breakers; Demolition Tools; Drills; Engines; Diesel; Engine, Gas; Grinders; Hoists; Pavement Breakers; Pumps; Rammers; Rock Bit Grinders; Rock Bits; Rock Drills; Saws; Spaders; Sump Pumps; Tampers; Vibrators; Wagon Drills.

(Continued in next column)

Ingersoll-Rand Co. (Cont'd)

Western Branch Offices

CALIFORNIA
 Los Angeles, 5533 E. Olympic Blvd.
 R. W. Pilkington
 San Francisco, 350 Brannan St.

COLORADO
 Denver, 1641 Blake St.....F. B. Harris

IDAHO
 (Salt Lake City), 144 S.W. Temple
 R. L. Olund

MONTANA
 Butte, 845 S. Montana

OREGON
 Portland, Broadway Bldg.....B. R. Tarrant

UTAH
 Salt Lake City, 144 S.W. Temple...R. L. Olund

WASHINGTON
 Seattle, 526 1st Ave. So.....B. R. Tarrant

Distributors

ARIZONA
 Phoenix.....Road Machinery Co.
 Prescott.....Arizona General Supply Co.

CALIFORNIA
 Bakersfield.....Brown-Bevis Industrial Equip. Co.
 Fresno.....Allied Equipment Co.
 Los Angeles.....Brown-Bevis Industrial Equip. Co.
 N. Sacramento.....Industrial Tractor Sales
 Oakland.....Bay Cities Equipment Co.
 Redding.....Shasta Truck & Equipment Sales
 Riverside.....Brown-Bevis Industrial Equip. 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.

NEVADA
 Las Vegas.....Blystone Equipment Co.
 Reno.....Sierra Machinery Co.

NEW MEXICO
 Albuquerque.....Contractors Equip. & Supply Co.

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

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

WASHINGTON
 Seattle.....Pacific Hoist & Derrick Co.
 The Carrington 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....C. G. Harris

Western Representatives

CALIFORNIA
 San Francisco, 26th and Kansas Sts..R. F. Miller

UTAH
 Salt Lake City, 3661 Ceres Dr..M. W. Dalebout

WASHINGTON
 Seattle, P.O. Box 512A.....P. C. Betts

INSLEY MANUFACTURING CORP.

General Offices—P.O. Box 167
Indianapolis 6, Indiana
West Coast Div. (Sales & Service)
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.

Factory Sales Representatives

CALIFORNIA
 Los Angeles, P.O. Terminal Box 3129
 E. V. Walsh

WASHINGTON
 Olympia, P.O. Box 895.....J. L. Lamley
 (Continued on next page)

C.I.T.'s Pay-As-You-Depreciate Plan provides long term financing for equipment purchases

Insley Manufacturing Corp. (Cont'd)**Distributors**

ARIZONA	
Phoenix	Shriver Machinery Co.
CALIFORNIA	
Bakersfield	San Joaquin Tractor Co.
Eureka	Trinity Tractor Co.
Fresno	Contractors Equipment & Supply Co.
Los Angeles	Essick Machinery Co.
Redding	Sullivan & Crowe Equipment Co.
Sacramento	Western Traction Co. (Branch)
San Francisco	Western Traction Co.
Santa Ana	Essick Machinery Co. (Branch)
COLORADO	
Denver	Macdonald Equipment Co.
Grand Junction	S & M Supply Co., Inc.
MONTANA	
Helena	Caird Engineering Works
NEW MEXICO	
Albuquerque	Construction Machinery Co.
(El Paso)	Equipment Supply Co.
OREGON	
Portland	Cramer Machinery Co.
UTAH	
Salt Lake City	Lund Machinery Co.
WASHINGTON	
Seattle	Washington Machinery Co.

INTERNATIONAL HARVESTER CO.
Construction Equipment Division
North Avenue at Mannheim
P.O. Box 270
Melrose Park, Illinois

PRODUCTS: Crawler Tractors; Bulldozers; Wheel Tractors; Rubber Tired High Speed Earthmovers with Scrapers and Wagons; Off-Highway Heavy Duty Trucks; Engines (Diesel and Gasoline).

Territory Managers

CALIFORNIA	
Los Angeles, 734 Lawrence St.	H. J. Bihler
Oakland, 2858 Cypress St.	E. E. Westerback
COLORADO	
Denver, 4233 E. 46th Ave.	W. H. Godfrey
NEW MEXICO	
(Headquarters Texas)	
Amarillo, 714 East 10th St.	A. C. Lange
OREGON	
Portland, 2001 Harvester Drive	A. H. Mason
WASHINGTON	
Spokane, 715 E. Sprague	H. C. Barlow

Distributors

ALASKA	
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.
El Centro	George M. Bell & Son
Eureka	Howard-Cooper Corp. of California
Five Points	Allied Equipment Co.
Fresno	Allied Equipment Co.
Los Angeles—Brown-Bevis Industrial Equip.	
Madera	Allied Equipment Co.
Oakland	Bay Cities Equipment, Inc.
Oxnard	Maulhardt Equipment Co.
Redding	Howard-Cooper Corp. of California
Reedley	Allied Equipment Co.
Riverside Brown-Bevis Ind. Eq. Co. of Riverside	
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.
Tranquility	Allied Equipment Co.
COLORADO	
Denver	H. W. Moore Equipment Co.
Durango	H. W. Moore Equipment Co.
Grand Junction	H. W. Moore Equipment Co.
HAWAII	
Hilo, Honolulu and Nawiliwili	
	Hawaiian Equipment Co., Ltd.
IDAHO	
Boise	Lang Construction Equipment Co.
Idaho Falls	Lang Construction Equipment Co.
MONTANA	
Billings	Industrial 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.

(Continued in next column)

International Harvester Co. (Cont'd)**NEW MEXICO**

Albuquerque	J. D. Coggins Co.
Farmington	J. D. Coggins Co.
OREGON	
Central Point	Howard Cooper Corporation
Coquille	Howard Cooper Corporation
Eugene	Howard Cooper Corporation
Pendleton	Pendleton Grain Growers
Portland	Howard Cooper Corporation
Roseburg	Howard Cooper Corporation
UTAH	
Salt Lake City	Lang Construction Equip. Co.
WASHINGTON	
Seattle	The Carrington Co.
	Howard Cooper Corporation
Spokane	Modern Machinery Co.
Toppenish	Daniel Equipment, Inc.
Yakima	Daniel Equipment, Inc.
WYOMING	
Casper	Keremi Tractor & Equipment Co.
Cheyenne	Keremi Tractor & Equipment Co.

INTERNATIONAL HARVESTER CO.
Farm Equipment Division
180 North Michigan Avenue
Chicago 1, Illinois

PRODUCTS: Rubber Tired and Small Crawler Industrial Tractors with ditchers, loaders, blades, etc.

District Office Managers

CALIFORNIA	
Los Angeles, 734 Lawrence St.	R. S. Biggerstaff
Oakland, 2855 Cypress St.	P.O. Box 4676
	A. S. Knudsen
COLORADO	
Denver, 4233 E. 46th Ave.	P.O. Box 5028
	G. L. Riggs
MONTANA	
Billings, 20 S. Broadway	S. J. Gidley
OREGON	
Portland, 2001 Harvester Dr.	P.O. Box 5967
	W. H. Berry
UTAH	
Salt Lake City, 435 W. 4th South St.	L. J. Smith
	P.O. Box 660
WASHINGTON	
Spokane, 715 E. Sprague Ave.	C. P. Wells

INTERNATIONAL HARVESTER CO.
MOTOR TRUCK DIVISION
180 N. Michigan Avenue
Chicago 1, Illinois

PRODUCTS: Motor Trucks.

Western Region Manager

CALIFORNIA	
San Francisco, 610 Brannan St.	L. A. Hanson
COLORADO, DENVER (DISTRICT OFFICE)	
3280 Brighton Blvd.	W. H. Davis, Mgr.
Motor Truck Branch:	
Albuquerque, N. Mex., 1924 Second St.	N.W.
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.	
Van Nuys, 5805 N. Sepulveda Blvd.	
Phoenix, Ariz., 317 S. Ninth Ave.	
OAKLAND (DISTRICT OFFICE)	
2855 Cypress St.	M. T. Sprague, Mgr.
Motor Truck Branches:	
Fresno, 2304 Monterey St.	
Oakland, 2855 Cypress 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	
Portland, 635 N.E. Second Ave.	

(Continued in next column)

International Harvester Co. Motor Truck Division (Cont'd)

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:	
Spokane, 715 E. Sprague Ave.	
Walla Walla, Third and Sumach	
Lewiston, Ida., 1701 Main St.	

THE INTERNATIONAL VIBRATION CO.

16702 Waterloo Road
Cleveland 10, Ohio

PRODUCTS: Multiple-shoe Vibratory Compactors; Vibro-Tamper Attachment, Model J-4.

Distributors

ALASKA	
Anchorage	The Carrington Co.
Fairbanks	The Carrington Co.
CALIFORNIA	
Oakland	Sun Equipment Co.
COLORADO	
Denver	King & East Mch. Co.
MONTANA	
Missoula	Westmont Tractor Co.
UTAH	
Salt Lake City	Lang Construction Equip. Co.
WASHINGTON	
Seattle	Air-Mac, Inc.
Spokane	Air-Mac, Inc.

IOWA MANUFACTURING CO.

916 - 16th Street N. E.
Cedar Rapids, Iowa

PRODUCTS: Rock, Gravel and Asphalt Plants; S. Compaction Units; Coal Machinery; Washing Plants; Conveyors; Screens; B. Crushers; Hammermills; Impact Breakers; Feeders and Stationary Rock and Gravel Plants; Dryers; Dust Collectors; Bituminous Paver.

District Representatives

MONTANA	
Billings, 2722 Broadwater	Carl H. Anderson
OREGON	
Oswego, 1518 Cedar St.	Len Dvo
(Calif., Ore., Utah, Wash.)	

Distributors

ALASKA	
(Seattle)	Sahlberg Equipment, Inc.
ARIZONA	
Phoenix	Arizona Cedar Rapids
CALIFORNIA	
Bakersfield	Brown-Bevis Industrial Equip.
Los Angeles	Brown-Bevis Industrial Equip.
Oakland	Bay Cities Equipment, Inc.
San Diego	Brown-Bevis Industrial Equip.
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.
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.

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
Northern Life Tower, Seattle

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

& O. INDUSTRIES
730 Bancroft Way
Berkeley 10, California

PRODUCTS: Agricat and Agrihoes.

Distributors

ALASKA
 Anchorage.....Agricat Sales & Service
 Auk Bay.....Taylor's
ARIZONA
 Phoenix.....Reed Done
CALIFORNIA
 Escondido.....Palomar Tractor
 Fremont.....Pence Bros., Inc.
 Los Angeles.....L. A. Paving Co.
 San Diego.....Webb Farm Equipment
HAWAII
 Honolulu.....American Factors, Ltd.
IDAHO
 Murray.....Sharn's Manufacturing Co.
WASHINGTON
 Seattle.....Fray 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.....Larson Equipment 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 Mchy. 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; Hoists.

Factory Representatives

CALIFORNIA
 Sherman Oaks, 5107 Mammoth Ave.
 Herbert F. Twaits
WASHINGTON
 Seattle, 231 S.W. 191st St.....John W. Scott

Distributors

ALASKA
 Anchorage.....Yukon Equipment, Inc.
 Fairbanks.....Yukon Equipment, Inc.
ARIZONA
 Phoenix.....Western Machinery Co.
CALIFORNIA
 City of Industry.....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
 Butte.....Butte Machinery Co.
 Great Falls.....Central Machinery Co.
 Sidney.....Tractor & Equipment Co.
NEVADA
 Las Vegas.....Cashman Equipment Co.
 (Continued in next column)

The Jaeger Machinery Co. (Cont'd)

NEW MEXICO
 Albuquerque.....J. D. Coggins Co.
OREGON
 Portland.....Feenaughty Machinery 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 Mach. Co., Inc.
Columbus 7, Ohio
2222 S. 3rd Street

PRODUCTS: J-Tamp; J-18 and J-36 Tampers.

Factory Representative
 (Cal-Western Equipment, Inc.)

CALIFORNIA
 Pomona, 1805½ N. Garey Ave.....Herbert DuToit

Distributors

ALASKA
 Anchorage.....Bashaw Equipment Co.
ARIZONA
 Phoenix.....Equipment Sales
CALIFORNIA
 Berkeley.....Central Equipment Co.
 Long Beach.....Contractors Equipment Co.
 N. Sacramento.....Central Equipment Co.
 San Bernardino.....W & K Equipment Co.
 San Diego.....Construction Machinery Co.
 San Francisco.....Rix Co.
 Santa Ana.....Orange Construction Equip. Co.
 Santa Maria.....Hansen Equipment Co.
 Stockton.....Waco Scaffolding Co.
COLORADO
 Denver.....Farris-Moritz Equipment Co.
HAWAII
 Honolulu.....Foster Equipment Co., Ltd.
IDAHO
 Boise.....The Sawtooth Co.
 Twin Falls.....The Sawtooth Co.
MONTANA
 Billings, Butte, Great Falls and Missoula
 Hall-Perry Machinery Co.
NEVADA
 Las Vegas.....Inland Supply Corporation
 Reno.....Sierra Industrial Co.
NEW MEXICO
 Albuquerque.....N. C. Ribble Co.
OREGON
 Portland.....Air-Mac Co.
 Andrews & Andrews Equipment
UTAH
 Salt Lake City.....Foulger Equipment Co.
WASHINGTON
 Seattle.....Star Machinery Co.
 Spokane.....Andrews Equip. Service of Wash.
 Ferris Equipment Co.
 Mid-Mountain Machinery Co.
WYOMING
 Casper, Cheyenne, Rock Springs and Sheridan
 Wortham Machinery Co.

JEBCO, INC.

108 South 12th Street
Blair, Nebraska

PRODUCTS: Elegraders; Jeb-Loader; Jebco Seal Coater.

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.....Tudor Equipment Co.
MONTANA
 Billings.....Western Construction Equipment Co.
 Great Falls.....Western Construction Equipment Co.
NEVADA
 Reno.....Pioneer Equipment Co. of Nevada
NEW MEXICO
 Albuquerque.....Contractors Equipment & Sup. Co.
 (Continued in next column)

Jebco, Inc. (Cont'd)

OREGON
 Eugene.....Loggers & Contractors Mchy. Co.
 Portland.....Loggers & Contractors Mchy. Co.
UTAH
 Salt Lake City.....Rocky Mountain Machinery Co.
WASHINGTON
 Seattle.....Toole Corp.
 Spokane.....Inland Diesel & Machinery Co.

JETCO, INC.

1100 Westminster Avenue
Alhambra, California

PRODUCTS: Trencher Parts; Jetco 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
 Oakland.....Pacific Trencher & Equipment Co.
 Sacramento.....Jiffy Trencher Parts
 San Diego.....Jetco Trencher Parts
COLORADO
 Denver.....Power Rental Equipment Co.
HAWAII
 Honolulu.....Universal Equipment Co.
IDAHO
 Boise.....American Ditcher Supply
UTAH
 Salt Lake City.....Holland 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 Mchy. Co.
 Oakland.....Cook Bros. Truck & Equipment Co.
COLORADO
 Denver.....Jacobs-Kerr & Co.
HAWAII
 Honolulu.....Edward R. Bacon Co. of Hawaii
IDAHO
 Boise.....Engineering Sales & Service Co.
MONTANA
 Billings.....Western Construction Equipment Co.
 Great Falls.....Western Construction Equip. Co.
NEW MEXICO
 Albuquerque.....The 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

**C.I.T.'s Engineered Finance Plans fit the needs of
 contractors and distributors**

EARLE M. JORGENSEN CO.
10650 S. Alameda Street
Los Angeles 54, California

PRODUCTS: "Goldedge" Blades (Cutting Edges for Earth-Moving Equipment).

District Managers

ARIZONA
 Phoenix, 55th Ave. & W. Madison St.
A. R. Thomas

CALIFORNIA
 Los Angeles, 10650 S. Alameda St. C. Schriber
 Oakland, 1657 W. Grand Ave. P. C. Childs
 San Francisco, 700 Pennsylvania Ave. P. C. Childs

COLORADO
 Denver, 6050 Downing St. W. H. Magee

WASHINGTON
 Seattle, 1703-6th Ave. So. T. E. Lee

JOY MANUFACTURING CO.
333 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; Belt Conveyors.

District Managers

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.

CALIFORNIA
 El Monte Warnock-Bancroft Equipment Co.
 San Francisco Coast Equipment Co.

COLORADO
 Denver Rental Machinery Co.

HAWAII
 Honolulu Grace Brothers, Ltd.

IDAHO
 Boise Carl R. Burt Equipment Co.

MONTANA
 Billings, Butte, Great Falls and Missoula
 Hall-Perry Machinery Co.

NEVADA
 Reno Graid Equipment Co.

NEW MEXICO
 Albuquerque The Cornelius Co.

OREGON
 Portland Clyde Equipment Co.

UTAH
 Salt Lake City Foulger Equipment Co.

WASHINGTON
 Seattle Clyde Equipment Co.
 Northern Commercial Co.
 Spokane Modern Machinery Co.

KAAR ENGINEERING CORP.
2995 Middlefield Road
Palo Alto, California

PRODUCTS: Radiotelephones.

Representatives

ALASKA
 Juneau, P.O. Box 2538. Alaska Radio Supply

ARIZONA
 (Sherman Oaks, Calif.), P.O. Box 1245
 King-Moon Co.

CALIFORNIA
 San Pedro, Berth 73 Marina Radio Service

COLORADO (MONTANA, NEW MEXICO, UTAH, WYOMING)
 Colorado Springs, 1501 N. Weber St.
 Bill Peyser

HAWAII
 Honolulu, P.O. Box 2098. Hastin & Browne

NEVADA
 (Palo Alto), 2995 Middlefield Road
 Norman C. Helwig

OREGON
 Portland, 3139 S.W. Altadena Terrace
 Donal Co.

WASHINGTON
 Seattle, 226-29th Ave. Gordon Armstrong

KAISER STEEL CORP.
Kaiser Center
300 Lakeside Drive
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, Syphons and Penstocks; Steel Tanks and Pressure Vessels; Specialized Machinery and Equipment.

Fabricating Division Plants

CALIFORNIA
 Fontana, P.O. Box 95 Homer Barnes
 Montebello, 7301 Telegraph Road J. J. Carlson
 Napa, P.O. Box 390 E. L. Tilsley

District Offices

ARIZONA
 Phoenix—Sales Representative James Wiggs

CALIFORNIA
 Los Angeles—So. District Sales Manager
 R. R. Hogan
 Oakland—General Sales Manager. C. L. Emerson

COLORADO
 Denver—Sales Representative Paul Kluthe

OREGON
 Portland—Sales Representative K. Hessamer

WASHINGTON
 Seattle—Mgr., N.W. District Sales H. H. Bayma

KATO ENGINEERING CO.
1415 First Avenue
Mankato, Minnesota

PRODUCTS: AC Generators; Motor-Generator Sets; Synchronous Motors; Rotary Convertors (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. Puelicher

Distributor

WASHINGTON
 Seattle Star Machinery Co.

KELLEY MACHINE DIVISION
The Wiesner-Rapp Co., Inc.
285 Hinman Avenue
Buffalo 25, New York

PRODUCTS: Concrete Floor Finishing Machinery including Power Trowels and Compactors; Power Tampers; Portable Space Heaters.

District Representatives

CALIFORNIA
 LaHabra, P.O. Box 152. Richard Jelinek

COLORADO
 Denver, 1420 Ulster St. C. A. Brown

Distributors

ALASKA
 Anchorage Bashaw Equipment Co.

ARIZONA
 Nogales Commercial Distributors, Inc.
 Phoenix Parkhill Murrey Equipment Co., Inc.
 Tucson Parkhill Murrey Equipment Co., Inc.

CALIFORNIA
 Los Angeles Larson Equipment Co.
 W. J. Burke & Co.
 Montclair Wolfe & Sons Sales Co.
 Sacramento W. J. Burke & Co.
 San Bernardino W-K Equipment Co.
 San Diego W. J. Burke & Co.
 San Francisco W. J. Burke & Co.

COLORADO
 Denver Contractors Equipment & Supply Co.

HAWAII
 Honolulu Edward R. Bacon Co. of Hawaii

IDAHO
 (Salt Lake City) Contractors Equip. & Supply Co.

MONTANA
 Great Falls Normont Equipment Co.

NEVADA
 Las Vegas A-D Machinery Co., Inc.
 Reno The Roeder Equipment Co.

NEW MEXICO
 Albuquerque W. J. Burke & Co.

OREGON
 Portland W. J. Burke & Co.

(Continued in next column)

Kelley Machine Division (Cont'd)

UTAH
 Salt Lake City Contractors Equip. & Supply Co.

WASHINGTON
 Seattle W. J. Burke & Co.
 The Carrington Co.
 Washington Machinery Co.
 Spokane Ferris Equipment Co.
 Modern Machinery Co., Inc.
 Wenatchee Midstate Truck & 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

ARIZONA
 Phoenix J. T. Jenkins Co.

CALIFORNIA
 Fresno, Los Angeles and
 San Francisco J. T. Jenkins Co.

COLORADO
 Denver Colorado Kenworth Corp.

IDAHO
 Pocatello 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
 Spokane Kenworth Co.

JOS. F. KIESLER CO.
938 W. Huron Street
Chicago 22, Illinois

PRODUCTS: Clamshell Buckets.

Distributors

CALIFORNIA
 City of Industry Smith Booth Usher Co.
 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.

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, gas, line or natural gas engine, steam engine, turbine driven; Automatic Control Equipment for engine-driven fire pumps, generators, etc.; Fire Pump Panels; Boiler Modulating Water Tube 200 hp.

Factory Branch

CALIFORNIA
 Gardena, 507 Alondra Blvd. Lee Gutierrez, Mgr.

KLOCKNER-HUMBOLDT-DEUTZ,
A. G.
Cologne, Germany

PRODUCTS: Air-cooled Diesel Engines; Generator Sets.
 (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

Lockner-Humboldt-Deutz, A. G.
(Cont'd)**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).....Air-Mac, Inc.
ARIZONA
Phoenix.....Neil B. McGinnis Equipment Co.
CALIFORNIA
Los Angeles.....Garlinghouse, Fremont & Co.
Shaw Sales & Service
Oakland.....Cook Bros. Truck & Equipment Co.
Sun Equipment Co.
COLORADO
Denver.....Fincham Equipment Co.
IDAHO
Boise.....Arnold Machinery Co., Inc.
G-K Machinery Co.
MONTANA
Helena.....Montana Powder & Equipment Co.
NEVADA
Reno.....Graid Equipment Co.
NEW MEXICO
Albuquerque.....The Cornelius Co.
OREGON
Medford.....Cal-Ore Machinery Co.
Portland.....Air-Mac, Inc. of Oregon
UTAH
Salt Lake City.....Kimball Equipment 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 (longitudinal and transverse); Mud-Jacks for sidewalk, street, highway and railroad; Railroad Cranes; Dumpsters; Scoopers.

District Representative

WASHINGTON
Everett, 1017 Rucker Ave.....Harvey C. Perry

Distributors

ARIZONA
Phoenix.....Neil B. McGinnis Co.
CALIFORNIA
Norwalk.....Harron, Rickard & McCone Co.
Oakland.....Cook Bros. Truck & Equipment Co.
COLORADO
Denver.....Fincham Equipment Co.
IDAHO
(Spokane).....American Machine Co.
Boise.....Engineering Sales & Service Co.
MONTANA
Billings.....Western Construction Equipment Co.
Great Falls.....Western Construction Equip. Co.
NEVADA
(Oakland).....Cook Bros. Truck & Equipment Co.
(Salt Lake City).....Kimball Equipment Co.
NEW MEXICO
Albuquerque.....The Cornelius Co.
El Paso.....Tri-State Equipment Co. of El Paso
OREGON
(Boise).....Engineering Sales Service, Inc.
Portland.....Wood Tractor Co.
UTAH
Salt Lake City.....Kimball Equipment Co.
(Continued in next column)

Koehring Division of Koehring Co.
(Cont'd)

WASHINGTON
(Portland).....Wood Tractor Co.
Seattle.....Pacific Hoist & Derrick Co.
Spokane.....American Machine Co.
WYOMING
(Billings).....Western Construction Equipment Co.
(Denver).....Fincham Equipment Co.
(Boise).....Engineering Sales Service, Inc.

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
Fresno.....Kellogg-Little Co.
Los Angeles.....Generator Equipment Co.
Sacramento.....Langner & Rifkin
San Francisco.....King-Knight Co.
H. G. Makellm Co.
Stockton.....Stephens Bros., Inc.
COLORADO
Denver.....Emrick & Hill Engine & Equip. Co.
Spitzer Industrial Products Co.
Waukesha Engine & Equipment Co.
Grand Junction.....S & M Supply Co.
HAWAII
Honolulu.....Hawaiian Equipment Co., Ltd.
IDAHO
Boise.....Intermountain Equipment Co.
MONTANA
Billings.....Holeman GM Diesel, Inc.
Parker Montana Co., Inc.
Great Falls.....Silver State Auto Co.
NEVADA
Reno.....Auto Electric
NEW MEXICO
Albuquerque.....Contractors Equip. & Supply Co.
Hill's Auto Electric Service
Spitzer Electrical Co. of New Mexico
Farmington.....Waukesha Engine & Equip. Co.
Gallup.....Gallup Car Parts
Hobbs.....Waukesha Sales & Service, Inc.
OREGON
Medford.....Cal-Ore Machinery Co.
Portland.....Instrument Laboratory, Inc.
UTAH
Salt Lake City.....Diesel Elec. 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.
Waukesha Engine & Equipment 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; Radial Stackers; 60" Portable Loaders.

Western Representative

CALIFORNIA
San Francisco, 2910 Lawton St...Sam A. Madrid

Distributors

ALASKA
Fairbanks.....The Carrington Co.
ARIZONA
Phoenix.....Arizona Cedar Rapids Co.
CALIFORNIA
Los Angeles.....Brown-Bemis Industrial Equip. Co.
Oakland.....Spears-Wells Machinery Co.
COLORADO
Denver.....Faris-Moritz Equipment Co.
(Continued in next column)

Kolman Manufacturing Co. (Cont'd)

IDAHO
Boise.....Intermountain Equipment Co.
MONTANA
Missoula.....Miller Machinery Co.
NEVADA
Las Vegas.....Clark County Whlse. Mercantile Co.
NEW MEXICO
Albuquerque.....Construction Machinery Co.
OREGON
Portland.....Balzer Machinery Co.
UTAH
Salt Lake City.....Rasmussen Equip. & Supply Co.
WASHINGTON
Seattle.....Sahlberg Equipment, Inc.
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 Spec. Co.
WASHINGTON
Seattle.....W. J. Burke & Co.

KW-DART TRUCK CO.
1301 North Manchester
Kansas City 20, Missouri

PRODUCTS: Heavy Duty "off-highway" End Dump Trucks and Tractor-Trailer Units.

Distributors

ARIZONA
Bisbee.....Goar Service & Supply Co.
Phoenix.....J. T. Jenkins Co.
CALIFORNIA
Fresno, Los Angeles and San Francisco
.....J. T. Jenkins Co.
MONTANA
(Spokane).....Spokane Kenworth Co.
NEW MEXICO
Albuquerque.....J. T. Jenkins Co.
OREGON
Portland.....Wood Tractor Co.
UTAH
Salt Lake City.....J. T. Jenkins Co.
WASHINGTON
Spokane.....Spokane Kenworth Co.

KWIK-MIX CO.
DIV. OF KOEHRING CO.
235 W. Grand Avenue
Port Washington, Wisconsin

PRODUCTS: Concrete Mixers; Plaster-Mortar Mixers; Bituminous Mixers; Power Wheelbarrows; Fork Lifts; Earth Boring Equipment.

Distributors

ALASKA
Spenard.....Al Johnson Equipment Co.
ARIZONA
Phoenix.....Neil B. McGinnis Co.
CALIFORNIA
Bakersfield.....San Joaquin Tractor Co.
Los Angeles.....Harron, Rickard & McCone Co.
Oakland.....Cook Bros. Truck & Equipment Co.
COLORADO
Denver.....Armstrong Caster Co.
Denver Air Machinery
IDAHO
Boise.....Engineering Sales & Service Co.
MONTANA
Billings.....Western Construction Eqp. Co.
Great Falls.....Western Construction Eqp. Co.
Missoula.....Western Construction Eqp. Co.
NEW MEXICO
Albuquerque.....The Cornelius Co.
(Continued on next page)

C.I.T. Loans on Equipment Fleets increase contractors working capital funds

Kwik-Mix Co. Div. of Koehring Co. (Cont'd)

OREGON	
Portland	Andrews & Andrews Equipment 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	
City of Industry	Smith Booth Usher Co.
San Francisco	Edward R. Bacon Co.
COLORADO	
Denver	Western Machinery Co.
MONTANA	
Billings	Western Construction Equip. Co.
Great Falls	Western Construction Equip. Co.
NEVADA	
Reno	R. D. Roeder Equipment Co.
NEW MEXICO	
Albuquerque	R. L. Harrison Co. N. C. Ribble
UTAH	
Salt Lake City	Lund Machinery Co.
WASHINGTON	
Seattle	Hatten Machinery Co. Northern Commercial Co. Star Machinery Co.
Spokane	American Machinery Co.
WYOMING	
Casper	Moss Equipment Co.

LENKER MANUFACTURING CO.

599 Chestnut Street
Sunbury, Pennsylvania

PRODUCTS: Lenker L-E-Vation Rod.

Distributor

CALIFORNIA	
Los Angeles	Surveyors Service 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., Room 802, Easton Bldg.	I. E. Smiley
COLORADO	
Denver, 610 Farmers Union Bldg.	W. E. Mattson

Field Representatives

CALIFORNIA	
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 Equip. & Supply Co.
ARIZONA	
Phoenix	Equipment Sales Co.
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 Diego	Crook Company
San Francisco	Rix Company, Inc.
COLORADO	
Denver	Denver Air Machinery Co.
Grand Junction	S & M Supply Co., Inc.

(Continued in next column)

Le Roi Division (Cont'd)

IDAHO	
Boise	Southern Idaho Equip. Co. of Boise
Idaho Falls	Southern Idaho Equipment Co.
Twin Falls	Southern Idaho Equipment Co.
MONTANA	
Billings	Western Construction Equip. Co.
Great Falls	Western Construction Equip. Co.
NEVADA	
Reno	General Equipment Co.
NEW MEXICO	
Albuquerque	Lively Equipment Co.
OREGON	
Portland	Balzer Machinery Co.
UTAH	
Salt Lake City	Atlas Equipment 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 & Eqpt. Co.
Oxnard	Wallace Machinery Co.
Salinas	Seaboard Equipment & Supply Co.
	Farmers Mercantile Co.
San Francisco	Coast Equipment Co.
Santa Rosa	Berglund Tractor & Eqpt. Co.
Stockton	Hickinbotham Bros.
Willits	Berglund Tractor & Eqpt. 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.
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: Angledozer; Bottom Dump Hauler; Bulldozers; Cranes (mobile); Flat Bed Haulers; Logging Arches and Winches; Motor Graders; Power Control Units; Rear Dump Haulers; Root Rake; Scrappers (self-propelled); Scrapers (tractor drawn); Sheep-foot Rollers; Snow Plows (wings and blowers); Switch Mobile and Switch Tractor; Tournapulls; Tournarope; Tournatractor; Twin-C Tractor; Tree Stinger; Haulpak Trucks; Haulpak Coal Hauler; Speedpull.
(Continued in next column)

Le Tourneau-Westinghouse Co. (Cont'd)**Distributors**

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)
San Diego	Crook Company (Branch)
COLORADO	
Denver	Tudor Equipment Co.
IDAHO	
Boise	G. K. Machinery Co.
MONTANA	
Billings	Western Construction Equipment Co.
Branch:	Great Falls
NEVADA	
Reno	Pioneer Equipment Co. of Nevada
NEW MEXICO	
Albuquerque	Contractors Equip. & Supply Co.
OREGON	
Portland	Loggers & Contractors Mch. Co.
Branch:	Eugene
UTAH	
Salt Lake City	Rocky Mountain Machinery Co.
WASHINGTON	
Seattle	Toole Corp.
Spokane	Inland Diesel & Machinery Co.
WYOMING	
Casper	Moss Equipment & Supply Co.

R. G. LeTOURNEAU, INC.

2399 South MacArthur Street
Longview, Texas

PRODUCTS: Off-Road Transporters; Rubber-Tired Cranes; Logging Arches; Heavy Duty Land Clearing Equipment; Log Stackers; Electric Hoists; Jib Cranes.

District Representative

(For California, Idaho, Montana, Oregon & Wash.)

OREGON	
Oregon City, 1414 Jackson St.	Don McDonald

Distributors

ARIZONA	
Phoenix	J. T. Jenkins Co.
CALIFORNIA	
Arcata	Loggers & Mill Supply Co.
Sacramento	Fred E. Barnett Co.
MONTANA	
Billings	Seitz Machinery Co.
Great Falls	Seitz Machinery Co.
OREGON	
Eugene	R. G. LeTourneau Sales & Service Co.
WASHINGTON	
Seattle	Totem Equipment Co.
Spokane	Air-Mac, Inc.

THE LINCOLN ELECTRIC CO.

22801 St. Clair Avenue
Cleveland 17, Ohio

PRODUCTS: Electric Arc Welders; Arc Welding Electrodes and Arc Welding Supplies; Electric Motors.

Western Regional Manager

CALIFORNIA	
Emeryville, 1303 Stanford Ave.	S. H. Taylor

Factory Branch Managers

ARIZONA	
Phoenix, 420 S. Third Ave.	William F. Fischer
Tucson, 650 N. Sixth Ave.	A. G. Van Dam
CALIFORNIA	
Emeryville, 1303 Stanford Ave.	C. L. Stocker
Fresno, 444 Blackstone Ave.	D. L. Stocker
Los Angeles, 2661 S. Yates Ave.	J. B. McCormick
COLORADO	
Denver, 1224 Walnut St.	Merrill F. Yal
OREGON	
Portland, 1034 N. E. Russet St.	E. H. We
WASHINGTON	
Seattle, 543 W. Nevada Ave.	R. L. Wilco

Distributors

ALASKA	
Anchorage, Fairbanks, Juneau and Ketchikan	Northern Commercial Co.
Anchorage and Fairbanks	Alaska Welding Sup
CALIFORNIA	
Eureka	Eureka Oxygen Co.
San Diego	G. S. Parsons Co.
COLORADO	
Grand Junction	Western Slope Oxygen 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

he Lincoln Electric Co. (Cont'd)

HAWAII
Honolulu...Welding & Industrial Products Co.

IDAHO
Boise.....Norco

ONTANA
Billings, Cut Bank, Great Falls and Kevin
.....Great Northern Tool & Supply Co.

NEVADA
Reno.....Sierra Oxygen Co.

NEW MEXICO
Albuquerque...Big Three Welding Supply Co.

OREGON
Eugene.....Eugene Welders Supply

UTAH
Salt Lake City.....Industrial Supply Co.

WASHINGTON
Spokane.....Gibson Welding Supplies

WYOMING
Casper.....Great Northern Tool & Supply Co.

COLIN 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 S.E. 8th Ave.
.....Ed Craven, Div. Mgr.

Distributors Throughout the 11 Western States
and Alaska.

LINK-BELT CO.

Dept. 60-WCED
Prudential Plaza
Chicago 1, Illinois

PRODUCTS: Backstops; Bases (motor); Bearings
babbitted, ball, roller, sleeve); Belting,
drive (chain or link, 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); Hang-
ers (shaft); Motogears, Motors (gear, vari-
able speed); Pillow Blocks; Pulleys; Re-
ducers, speed (helical gear, parallel shaft,
motorized shaft mounted, spur gear, worm
gear); Screens, vibrating; Sprockets; Take-
ups; Transmissions; Variable Speed Drives;
Winches.

West Coast Plants, District Sales Offices and
Warehouses

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 N.W. 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 S.W.
Cedar Rapids, Iowa

PRODUCTS: Shovels; Cranes; Hoes; Draglines—
crawler, truck, wheel-mounted; gasoline,
diesel or electric power—Diesel Pile Ham-
mers.

District Sales Representatives
CALIFORNIA
Hayward, 26651 Peterman Ave..W. E. Kuhlman
COLORADO
Denver, 8700 N. Essex.....W. B. Severe
(Continued in next column)

Link-Belt Speeder Corp. (Cont'd)

OREGON
Portland, 5619 S.W. Menefee Dr..J. E. Fleming

District Service Representatives
CALIFORNIA
Riverside, 7490 Magnolia, Apt. Q. K. G. Snyder
OREGON
Portland, 62924 S.W. 14th Ave..D. G. Ballard

Distributors
ALASKA
Anchorage..Craig Taylor Equip. & Supply Co.

ARIZONA
Phoenix.....Equipment Sales Co.

CALIFORNIA
S. El Monte...Warnock & Bancroft Equip. Co.
Fresno, Oakland, Sacramento and San Francisco
.....Edward R. Bacon Co.

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

HAWAII
Honolulu..Edward R. Bacon Co. of Hawaii, Ltd.

IDAHO
Boise.....Lang Construction Equipment Co.
Idaho Falls..Lang Construction Equipment Co.

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

NEVADA
Reno.....Graid Equipment Co.

OREGON
Central Point, Coquille, Eugene, Ontario,
Portland and Roseburg..Howard-Cooper Corp.

UTAH
Salt Lake City.....Rocky Mountain Mch. 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; Washing Plants, port-
able and stationary; Vibrating Screens;
Conveyors; Sand Drags; Pulverizers; Scrub-
bers; Feeders; Hoppers and Bins; Roller
Screens.

Distributors
CALIFORNIA
Los Angeles.....Larson Equipment Co.
San Francisco.....Coast Equipment Co.

MONTANA
Great Falls.....Monty Machinery Co.
Eugene.....Cramer Machinery Co.

OREGON
Portland.....Cramer Machinery Co.

UTAH
Salt Lake City.....Foulger 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; Drag-
lines; Trenches; Pile Drivers; Post Drivers;
Magnet Cranes—carrier, crawler or self-
propelled; swamper and rail propulsion
mounted; gasoline, diesel or electric power.

Distributors
ALASKA
Anchorage.....Bashaw Equipment Co.
Fairbanks.....Bashaw Equipment Co.

ARIZONA
Phoenix.....Superior Equipment Co.

MONTANA
Billings.....Western Construction Equipment Co.
Great Falls..Western Construction Equip. Co.

UTAH
Salt Lake City.....Heiner Equipment Co.

WASHINGTON
Seattle.....Pacific Hoist & Derrick Co.

LITTLEFORD BROS., INC.

457 East Pearl Street
Cincinnati 2, Ohio

PRODUCTS: Asphalt and Bituminous Mixers; Bi-
(Continued in next column)

Littleford Bros., Inc. (Cont'd)

Bituminous Distributors; Bituminous Mainte-
nance Equipment; Steam Boilers; Supply
Tanks; Bins; Trail-O-Distributors; Kettles;
Tool Heaters; Bituminous Surface Heaters;
Bituminous Finishers; Bituminous Sprayers;
Bituminous Spreaders; Portable Road Roll-
ers; Road Brooms; Water Sprinklers; Bi-
tuminous 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
City of Industry.....Smith Booth Usher Co.
San Francisco.....Edward R. Bacon Co.

COLORADO
Denver.....Booth-Rouse Equip. 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: Tamper Shanks and Tips for Sheepfoot
Rollers.

LUDERJAK COMPANY

1319 East Broadway
El Cajon, California

PRODUCTS: Self-Squaring Gussets for shoring,
half columns, etc.

Distributor
CALIFORNIA
Los Angeles.....Neptune Manufacturing Co.

LULL ENGINEERING CO.

3045 Highway 13
St. Paul 11, Minnesota

PRODUCTS: Hi-Lift Loaders; Fork Trucks; Rough
Terrain Fork Trucks; Log, Lumber and Cul-
vert Hi-Lift Loaders; Front End Loaders;
Ice Blades (mechanical tilt); Hydraulic Tilt
Ice Blades; Ice Roller-Crushers; Combina-
tion Ice-Blade and Roller-Crushers; Self-
propelled Brooms; Reversible Snowplows;
Combination Reversible Snowplows and
Brooms; Underbody Graders (for 4-wheel
drive trucks only); Ice, Packed Snow and
Sleet Fighters.

District Sales Manager
CALIFORNIA
Temple City, 5839 N. Alessandro
.....Zachary T. Fraser

Distributors
ARIZONA
Phoenix.....Baker-Thomas Co.

CALIFORNIA
Los Angeles.....Irving G. King & Co.
Oakland.....T-G Forklift Sales Co.

COLORADO
Denver.....Contractors Equipment & Supply Co.

OREGON
Portland.....Air-Mac, Inc.

UTAH
Salt Lake City.....Contractors Equip. & Supply Co.

WASHINGTON
Seattle.....Air-Mac, Inc.

**C.I.T.'s Pay-As-You-Depreciate Plan provides long term
financing for equipment purchases**

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
City of Industry.....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.
UTAH
Salt Lake City.....W. H. Pingree Co.
WASHINGTON
Seattle.....Washington Truck Equipment, Inc.
Sahlberg Equipment Co.
WYOMING
Cheyenne.....Keremi 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 District 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 Equipment & 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
Arcada, 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...D. F. Schuyler
WASHINGTON
Seattle, 3707 Airport Way.....E. A. May

Western Division Personnel

CALIFORNIA
Palo Alto...C. K. Revelle, General Manager
L. F. Lindstrom, Asst. Gen. Mgr.
S. J. Coffey, Off-Highway Mgr.
(Continued in next column)

Mack Trucks, Inc. (Cont'd)

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. Equip. Co.
Blythe.....Leo's Truck & Diesel Service
Colma.....Ferretti Bros.
Fresno.....Reliable Automotive Co.
Oakland.....Howard B. Fredericks Co.
Palm Springs.....Harold Smith Garage
Sacramento.....W. V. Morgan Co.
San Bernardino.....Custom Transportation Div.
San Diego.....Diesel Construction Equipment Co.
San Jose.....Morgan's
San Luis Obispo.....Farmers Hardware & Equip. Co.
Stockton.....Stockton Diesel Service
Ventura.....Fleet Maintenance, Inc.
HAWAII
Honolulu.....Grace Bros.
IDAHO
Boise.....Southern Idaho Equip. Co. of Boise
Lewiston.....Idaho Truck Sales Co., 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
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
Vernal.....Superior Diesel Service
WASHINGTON
Chehalis.....Mathis Motors
Everson.....Everson Service City
Mount Vernon.....Truck City, Inc.
Spokane.....Lilenquist Motors, Inc.
Wenatchee.....Midstate Truck & Machinery Co.
Woodland.....Tri-County Mack Sales
Yakima.....Tire Sales & Equipment
WYOMING
Rock Springs.....McCurtain Motor Co.

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. Stime

Western Offices

CALIFORNIA
Los Angeles, 185 S. Myers St...Ph: AN 8-2884
OREGON
Portland, 1603 N.W. 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; Cyclone Dust Collectors; Madsen Road Pug (Travel-Mix Plant); Johnson Float Finisher (Cement Finishing); Pump Valves; Wet Tube Dust Washers; Cement Treated Base Plants.

Distributors

ALASKA
Anchorage.....Evans Engine & Equipment Co., Inc.
ARIZONA
Phoenix.....Western Machinery Co.
CALIFORNIA
Oakland.....Sun Equipment Co.
(Continued in next column)

Madsen Works (Cont'd)

IDAHO
Boise.....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
Reno.....Reno Equipment Sales Co.
NEW MEXICO
Albuquerque.....J. D. Coggins Co.
OREGON
Portland.....Cramer Machinery Co.
UTAH
Salt Lake City.....Foulger Equipment Co.
WASHINGTON
Seattle.....Evans Engine & Equipment Co., Inc.
Spokane.....Modern Machinery Co., Inc.
WYOMING
Casper.....Studer Tractor & Equipment Co.

MAGINNIS POWER TOOL CO.

154 Distl Avenue

Mansfield, Ohio

PRODUCTS: Hi-lectric (180 cycle) Concrete Vibrators and Generators; Uni-lectric Concrete Vibrators; Side-Form, Full-Slab and Widening Strip Vibrator Attachments for concrete spreaders, finishers and slip-form pavers; Power-Factor Vibratory Soil Compactors; Hi-lectric (180 cycle) Pencil Type Concrete Vibrators (1 1/4 head); Vibrating Screeds.

District Representatives

CALIFORNIA
Pomona.....R. J. Sedgwick
COLORADO
Denver.....K. G. Mains

Distributors

ARIZONA
Phoenix.....Western Machinery Co.
CALIFORNIA
Los Angeles.....Electric Tool & Equipment, Inc.
Sacramento.....Western Traction Co.
San Bernardino.....Electric Tool & Equipment Co.
San Francisco.....Western Traction Co.
COLORADO
Denver.....Western Machinery Co.
Grand Junction.....Western Machinery Co.
IDAHO
Idaho Falls.....Western Machinery Co.
MONTANA
Great Falls.....Monty Machinery Co.
NEVADA
Las Vegas.....Blystone Equipment Co.
Reno.....Sanford Tractor Co.
UTAH
Salt Lake City.....Western Machinery Co.
WASHINGTON
Seattle.....Cox Machinery Co.
Spokane.....Ferris Equipment Co.
Tacoma.....Cox Machinery Co.

MALSARY MANUFACTURING COMPANY

845 - 92nd Avenue

Oakland 3, California

PRODUCTS: Steam Vapor and High Pressure Combination Steam Cleaners; Industrial Hot Water Heaters; Steam Generators.

District Sales Offices

CALIFORNIA
Los Angeles, 3929 West 6th St...D. E. Nortz
Oakland, 1030 Winsor Ave...M. B. Campbell
COLORADO
Denver, 2802 So. Race St.....John Larsen
MONTANA
Billings, 14 N. 30th St...Industrial Supply Co.
UTAH
Salt Lake City, 61 E. 7th So. St...Karl Winter Co.
WASHINGTON
Seattle, 12360-35th Ave., N.E...H. T. Steinheim

Distributors

ALASKA
(Seattle).....Yukon Equipment Co.
ARIZONA
Phoenix.....Amka Chemical Co.
Complete Industrial Supply Co.
Huddleston Equipment Co.
Tucson.....Complete Auto & Home Supply
CALIFORNIA
Bakersfield.....Diefel's
Fresno.....Edward R. Bacon 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

Alsberry Manufacturing Company (Cont'd)

Los Angeles.....Calavar Corporation
 Los Angeles.....Cal-Tex Industries
 Los Angeles.....DuBois Company
 Los Angeles.....Pennisalt Chemical Co.
 Oakland.....L. D. Berlin
 Oakland.....S. & M. Service Co.
 Oakland.....Vernon Chemical Co.
 San Jose.....C. M. Ward
 San Jose.....Pacific Delta Distributors, Inc.
 San Francisco.....Edward R. Bacon Co.
 San Francisco.....Yosemite Chemical Co.
 Sacramento.....Continental Chemical Co.

COLORADO
 Colorado Springs.....Motor Parts & Supply
 Denver.....Barney Gross Supply Co.
 Denver.....King & East Machinery Corp.
 Denver.....H. W. Moore Equipment Co.
 Denver.....Rental Machinery Co.

IDAHO
 Caldwell.....Service Parts Co.
 Coeur d'Alene.....Gardner Supply Co.
 Idaho Falls.....Auto Parts Co.
 Nampa.....Automotive Equipment & Supply
 Pocatello.....Ensign Service & Supply Co.
 Pocatello.....Automotive Wholesalers

MONTANA
 Billings.....Hines Motor Supply
 Bozeman.....Hines Motor Supply
 Great Falls.....Hines Motor Supply
 Kalispell.....Treasure State Equipment Co.
 Lewiston.....Hines Motor Supply
 Miles City.....Hines Motor Supply

NEVADA
 Las Vegas.....Inland Service & Supply
 Reno.....Arrow Equipment Company

NEW MEXICO
 Albuquerque.....Contractors Equip. & Supply Co.

OREGON
 Portland.....Equipment Distributors, Inc.
 Eugene.....Greater Mountain Chemical Co.
 Eugene.....Jerry's Specialized Sales & Service

UTAH
 Salt Lake City.....Greater Mountain Chemical Co.
 Salt Lake City.....Robert Taylor & Sons

WASHINGTON
 Seattle.....Automotive Steam Cleaners
 Seattle.....Elliot Bay Electric Co.
 Spokane.....Modern Machinery Co., Inc.
 Tacoma.....Auto Clearing House

MANITOWOC ENGINEERING CORP.
South 16th Street
Manitowoc, Wisconsin

PRODUCTS: Crawler and Truck Cranes; Backhoe Shovels; Power Shovels.

District Representatives
COLORADO
 Wheatridge, 3250 Lamar.....Ed Butzen
WASHINGTON
 Seattle, P.O. Box 1182.....Frank Szezhner

Distributors
ARIZONA
 Phoenix.....Min-A-Con Equipment Co.
CALIFORNIA
 Bakersfield.....Inland Equipment Co.
 El Cerrito.....Tool Equipment Co.
 Eureka.....Fred E. Barnett Co.
 Los Angeles.....Casey-Metcalf Machinery Co., Inc.
 Los Angeles.....Fred E. Barnett Co.
 San Diego.....Diesel Construction Equipment Co.
 San Francisco.....Fred E. Barnett Co.
 Ukiah.....Fred E. Barnett Co.

COLORADO
 Denver.....Manitowoc Sales & Service Corp.
MONTANA
 Helena.....Steffeck Equipment Co.

OREGON
 Klamath Falls.....Fred E. Barnett Co.
 Portland.....Manitou Equipment Co.

WASHINGTON
 Seattle.....Manitou Equipment Co.
 Spokane.....Inland Diesel & Machinery Co.

Distributors
ARIZONA
 Phoenix.....Min-A-Con Equipment Co.
CALIFORNIA
 Bakersfield.....Inland Equipment Co.
 El Cerrito.....Tool Equipment Co.
 Eureka.....Fred E. Barnett Co.
 Los Angeles.....Casey-Metcalf Machinery Co., Inc.
 Los Angeles.....Fred E. Barnett Co.
 San Diego.....Diesel Construction Equipment Co.
 San Francisco.....Fred E. Barnett Co.
 Ukiah.....Fred E. Barnett Co.

COLORADO
 Denver.....Manitowoc Sales & Service Corp.
MONTANA
 Helena.....Steffeck Equipment Co.

OREGON
 Klamath Falls.....Fred E. Barnett Co.
 Portland.....Manitou Equipment Co.

WASHINGTON
 Seattle.....Manitou Equipment Co.
 Spokane.....Inland Diesel & Machinery Co.

Distributors
ARIZONA
 Phoenix.....Min-A-Con Equipment Co.
CALIFORNIA
 Bakersfield.....Inland Equipment Co.
 El Cerrito.....Tool Equipment Co.
 Eureka.....Fred E. Barnett Co.
 Los Angeles.....Casey-Metcalf Machinery Co., Inc.
 Los Angeles.....Fred E. Barnett Co.
 San Diego.....Diesel Construction Equipment Co.
 San Francisco.....Fred E. Barnett Co.
 Ukiah.....Fred E. Barnett Co.

COLORADO
 Denver.....Manitowoc Sales & Service Corp.
MONTANA
 Helena.....Steffeck Equipment Co.

OREGON
 Klamath Falls.....Fred E. Barnett Co.
 Portland.....Manitou Equipment Co.

WASHINGTON
 Seattle.....Manitou Equipment Co.
 Spokane.....Inland Diesel & Machinery Co.

Distributors
ARIZONA
 Phoenix.....Min-A-Con Equipment Co.
CALIFORNIA
 Bakersfield.....Inland Equipment Co.
 El Cerrito.....Tool Equipment Co.
 Eureka.....Fred E. Barnett Co.
 Los Angeles.....Casey-Metcalf Machinery Co., Inc.
 Los Angeles.....Fred E. Barnett Co.
 San Diego.....Diesel Construction Equipment Co.
 San Francisco.....Fred E. Barnett Co.
 Ukiah.....Fred E. Barnett Co.

COLORADO
 Denver.....Manitowoc Sales & Service Corp.
MONTANA
 Helena.....Steffeck Equipment Co.

OREGON
 Klamath Falls.....Fred E. Barnett Co.
 Portland.....Manitou Equipment Co.

WASHINGTON
 Seattle.....Manitou Equipment Co.
 Spokane.....Inland Diesel & Machinery Co.

Distributors
ARIZONA
 Phoenix.....Min-A-Con Equipment Co.
CALIFORNIA
 Bakersfield.....Inland Equipment Co.
 El Cerrito.....Tool Equipment Co.
 Eureka.....Fred E. Barnett Co.
 Los Angeles.....Casey-Metcalf Machinery Co., Inc.
 Los Angeles.....Fred E. Barnett Co.
 San Diego.....Diesel Construction Equipment Co.
 San Francisco.....Fred E. Barnett Co.
 Ukiah.....Fred E. Barnett Co.

COLORADO
 Denver.....Manitowoc Sales & Service Corp.
MONTANA
 Helena.....Steffeck Equipment Co.

Marion Metal Products Co. (Cont'd)

CALIFORNIA
 Fresno.....Ruckstell California Sales Co.
 Los Angeles.....Truck Bodies Co.
 Oakland.....Ruckstell California Sales Co.

COLORADO
 Denver.....Woerber Auto Body & Mfg.

NEW MEXICO
 Albuquerque.....Leonard Motor Co.

OREGON
 Portland.....Pacific Body Builders, Inc.

WASHINGTON
 Seattle.....Sound Truck Equipment, Inc.
 Spokane.....Alloy Manufacturing Co.

MARION POWER SHOVEL CO.
Div. of Universal Marion Corp.
West Center Street
Marion, Ohio

PRODUCTS: Power Cranes; Shovels; Draglines; Clamshells; Backhoes; Magnet Cranes; Pile Drivers; Skimmers—from 3/4 to 75 cu. yd. capacity, from 20 to 168 ton lifting capacity, mounted on crawlers or trucks.

Parts Warehouse
ARIZONA
 Phoenix, 1017 N. 22nd Ave.....Harold E. Zimbal
CALIFORNIA
 S. San Francisco, 326 Shaw Rd.....Paul E. Roberts

Factory Personnel
CALIFORNIA
 S. San Francisco, 326 Shaw Rd.....Robert Falck
 Western Sales Manager

ARIZONA
 Phoenix, 1017 N. 22nd Ave.....E. R. Johnson
 Manager, Rocky Mountain Sales District

OREGON
 Portland, 2651 S.W. Sherwood Pl.....Wm. F. Lanus
 Manager, Northwest Sales District

Distributors
ARIZONA
 Phoenix.....Superior Equipment Co., Inc.
 Tucson.....Superior Equipment Co., Inc.

CALIFORNIA
 Berkeley.....Central Equipment Co., Inc.
 Hayward.....Central Equipment Co., Inc.
 Los Angeles.....LeRoi-Rix Machinery Co., Inc.
 Sacramento.....Central Equipment Co., Inc.
 San Francisco.....The Rix Co., Inc.
 Santa Clara.....The Rix Co., Inc.

IDAHO
 Boise, Idaho Falls and Twin Falls
The Sawtooth Co.

MONTANA
 Billings, Great Falls and Missoula
Miller Machinery Co.

OREGON
 Eugene.....Western Equipment Co. of Eugene
 Portland.....Western Equipment Co. of Portland

UTAH
 Salt Lake City.....Heiner Equip. & Supply Co., Inc.

WASHINGTON
 Seattle.....Star Machinery Co.

MARLOW PUMPS
Div. of Bell & Gossett Co.
Box 200
Midland Park, New Jersey

PRODUCTS: Self-priming Centrifugal Pumps; Diaphragm Pumps; Jetting Pumps.

District Engineer
 (Calif., Ore., Wash.)
CALIFORNIA
 Burbank, 223 S. Beachwood.....Wm. M. Coopman

Distributors
ARIZONA
 Phoenix.....Equipment Sales Co.

CALIFORNIA
 Bakersfield.....Crooks Co.
 Blythe.....McBride Pump & Supply Co.
 Monrovia.....Geo. M. Philpott Co.
 Oakland.....Geo. M. Philpott Co.
 Sacramento.....Geo. M. Philpott Co.
 San Diego.....Kenton Equipment Co.
 San Francisco.....Geo. M. Philpott Co.

COLORADO
 Denver.....A. J. Philpott Co.

IDAHO
 Boise.....Engineering Sales Service, Inc.

MONTANA
 Billings.....Montana Powder & Equipment Co.
 (Continued in next column)

Marlow Pumps (Cont'd)

Helena.....Montana Powder & Equipment Co.
OREGON
 Portland.....Geo. M. Philpott Co.
WASHINGTON
 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

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 Equipment Co.

NEVADA
 Reno.....General Equipment Co.

NEW MEXICO
 Albuquerque.....The Winter-Weiss Co. of N. Mex.
 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.

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.....Heiner 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.

MARWAIS STEEL CO.
Metal Plate Guard Rail Division
6466 Gayhart Street
Los Angeles 22, California

PRODUCTS: Guard Rail and Miscellaneous Highway Hardware.

Factory Personnel
CALIFORNIA
 Los Angeles, 6466 Gayhart St.
W. M. Carson, Mgr.
 Richmond, 1190 S. 14th St.
W. R. Voorhees, Mgr.

Sales Engineers
ARIZONA
 Glendale, 3939 W. Orange Ave.....C. S. Ludwig

CALIFORNIA
 Richmond, 1190 S. 14th St.....H. E. Rutherford

WASHINGTON
 Seattle, 18641 Fourth St., S.W.
V. A. Meyers, Jr.

MASSEY-FERGUSON INDUSTRIAL DIV.

1009 South West Street
Wichita 13, Kansas

PRODUCTS: Shovel Loaders; Loaders and Back-hoes; Street Sweepers; Snow Blowers; Trenchers; Tractor Attachments; Tractors; Fork Lifts.

Regional Office

CALIFORNIA
Los Angeles.....2545 S. Yates Ave.

Distributed by Massey-Ferguson, Inc. in the following cities:

ARIZONA
(Los Angeles)
CALIFORNIA
Los Angeles and Stockton
COLORADO
Denver
IDAHO
Pocatello
MONTANA
Billings
NEVADA
(Pocatello) and (Stockton)
NEW MEXICO
(Denver)
OREGON
Portland
UTAH
(Pocatello)
WASHINGTON
(Portland)
WYOMING
(Denver) and (Pocatello)

THE MASTER BUILDERS CO.

7016 Euclid Avenue
Cleveland 3, Ohio

PRODUCTS: POZZOLITH—admixture for improving the quality of concrete. MASTERPLATE—"Iron-armoured" concrete floors for industry. EMBECO—for non-shrink grout and mortar applications. ANVIL-TOP—heavy duty iron-surfaced concrete floor for "key" areas of industrial flooring.

Factory Branch Managers

CALIFORNIA
Los Angeles, 2159 Bay St.....C. F. Brown
Oakland, 75 Market St.....R. C. Clark
COLORADO
Denver, 939 Grant St.....J. R. Florey
MONTANA
East Helena, P.O. Box 653.....L. H. Richter
WASHINGTON
Seattle, 1305 Republican St.....A. E. Olson

MASTER VIBRATOR CO.

1752 Stanley Avenue
Dayton 1, Ohio

PRODUCTS: Generator Plants; Vibratory Screeds; Concrete Vibrators; Compactors; Hammers; Turn-A-Trowels; Space Heaters.

Regional Managers

CALIFORNIA
Los Angeles, 2056 W. Century Blvd.....F. J. Fial
San Mateo.....Joseph L. Pert, Jr.

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 Eqpt. Co.
Great Falls.....Western Construction Eqpt. Co.
NEVADA
Reno.....Sierra Industrial Co., Inc.
NEW MEXICO
Albuquerque.....Frank's Supply Co.
(Continued in next column)

Master Vibrator Co. (Cont'd)

OREGON
Portland.....Anderson Oregon Rental
UTAH
Salt Lake City.....Fouglar Equipment Co.
WASHINGTON
Seattle.....Andrews Machinery Co.
Spokane.....Andrews Machinery Co.
WYOMING
Cheyenne.....Wortham Machinery Co.

MAXON CONSTRUCTION CO., INC.

2600 Far Hills Avenue
Dayton 9, Ohio

PRODUCTS: Dumpcrete — non-agitated concrete hauling body; Dumpcrete Spreader—concrete.

Distributors

ARIZONA
Phoenix.....Neil B. McGinnis Equipment Co.
CALIFORNIA
Los Angeles.....Garlinghouse-Fremont & Co.
San Francisco.....Standard Machinery Co.
NEVADA
Reno.....Sierra Machinery Co.
NEW MEXICO
Albuquerque.....The Cornelius Co.
OREGON
Portland.....Cramer Machinery Co.

McALISTER EQUIPMENT LEASING CO.

1200 Van Ness Avenue
San Francisco 9, California

PRODUCTS: Leasing of equipment to manufacturers.

M. P. McCaffrey, Inc.

2121 East 25th Street
Los Angeles 58, California

PRODUCTS: Clamshell Buckets; Dragline Buckets; Backhoe Buckets; Rock Tongues; Grapples; Backhoe Attachments; Sheaves.

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.
HAWAII
Honolulu.....Mid-Pacific 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; Thomas Boomstop; Hose Reels; Combination Magnet Reel and Tagline.

Distributors

ALASKA
Anchorage.....Craig Taylor Equip. & Supply Co.
ARIZONA
Phoenix.....Equipment Sales Co.
Lee Redmond Equipment Co.
Shriver Machinery Co.
CALIFORNIA
City of Industry.....Smith Booth Usher Co.
Los Angeles.....John A. Batchelor Co.
Brown-Bevis Industrial Equip. Co.
Cook Bros. Construction Mch. Co.
Crook Company
(Continued in next column)

McCaffrey-Ruddock Tagline Corp. (Cont'd)

Essick Manufacturing Co.
M. P. McCaffrey, Inc.
Santa Fe Equipment Co., Inc.
Shaw Sales & Service Co.
F. W. Shrader Co.
Norwalk.....Harron, Rickard & McCone
COLORADO
Denver.....Constructors Equipment Co., Inc.
Booth-Rouse Equipment Co.
Faris-Moritz Equipment Co.
H. W. Moore Equipment Co.
"Quick-Way" Truck Shovel

HAWAII

Hilo.....American Factors, Ltd.
Honolulu.....American Factors, Ltd.
Mid-Pacific Equipment Co.

IDAHO

Boise.....Feenaughty Machinery Co.
Southern Idaho Equipment Co.
Idaho Falls.....Arnold Machinery Co., Inc.
Southern Idaho Equipment Co.
Twin Falls.....Southern Idaho Equipment Co.

MONTANA

Billings, Butte, Great Falls and Missoula
Hall-Perry Machinery Co.
Butte.....Pioneer Equipment & Supply Co.
Missoula.....Westmont Tractor & Equipment

NEVADA

Reno.....Sierra Machinery Co.

NEW MEXICO

Albuquerque.....Contractors' Equip. & Supply Co.

OREGON

Eugene.....Interstate Tractor & Equipment Co.
Western Equipment Co.
Klamath Falls.....Fred E. Barnett Co.
Medford.....Cal-Ore Machinery Co.
Portland.....Balzer Machinery Co.
Fred E. Barnett Co.
Clyde Equipment Co.
Electric Steel Foundry
Feenaughty Machinery Co.
Interstate Tractor & Equipment Co.
Star Machinery Co.
Western Equipment Co.

UTAH

Salt Lake City.....Arnold Machinery Co., Inc.
Fouglar Equipment Co.

WASHINGTON

Seattle.....Clyde Equipment Co.
A. H. Cox & Co.
Feenaughty Machinery Co.
Star Machinery Co.
Washington Machinery Co.
Electric Steel Foundry
Feenaughty Machinery Co.
General Machinery Co.
Modern Machinery Co., Inc.
Star Machinery Co.
Tacoma.....A. H. Cox & Co.
Wenatchee.....A. H. Cox & Co.

McCONAUGHAY MIXERS, INC.

424 Columbia Street
Lafayette, Indiana

PRODUCTS: HTD Patch Mixers; Asphalt Emulsifiers; Barrel Heaters; High-Capacity Transfer Pumps; Truck Mounted Asphalt Mixers.

Distributors

CALIFORNIA
Los Angeles.....Bevis Machinery Co.
COLORADO
Denver.....Frank Fuller Equipment Co.
IDAHO
Boise.....Carl Burt Equipment Co.
NEVADA
Elko.....A & D Machinery Co.
NEW MEXICO
Las Cruces.....Oliver Equipment Co.
OREGON
Portland.....Guthrie Machinery Co.
UTAH
Salt Lake City.....Equipment Supply Co.
WASHINGTON
Seattle.....Caldwell Machinery Co.
WYOMING
(Denver).....Frank Fuller Equipment Co.

McCulloch Corporation

6101 West Century Boulevard
Los Angeles 45, California

PRODUCTS: Power Chain Saws; Earth Drills; Wheel Cutters.

Factory Personnel

CALIFORNIA
Los Angeles, 6101 W. Century Blvd. Scott Co.
Factory Direct Sales Mch.
(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

Culloch Corporation (Cont'd)
 Santa Rosa, 3051 Montgomery Drive
 Glen Woodworth.....District Mgr.
CO., COLO., IDAHO, NEW MEX., UTAH, ARIZ.
 (Alibu, Calif.), 6525 Dume Dr. Jean St. Henri
GON
 Salem, 126 E. Browning St. Frank Miller
 District Rep.
WASHINGTON (MONTANA)
 Seattle, 807 N. 107th St. Chuck Davison

Distributors

ALABAMA
 Phenix.....Waukesha Southwestern
CALIFORNIA
 Ukela.....Kellogg-Little Co.
 Los Angeles.....Fornaciari Co.
 Sacramento.....Leavitt Power Tool Co.
 San Francisco.....Kellogg-Little Co.
COLORADO
 Denver.....M. L. Foss
OHIO
 Boise.....Wilson Transport Supply
NEW MEXICO
 Albuquerque.....Log Cutters Supply
OREGON
 Bend.....Bend Chain Saw Service, Inc.
 Eugene.....Foster-McCulloch Co.
 Portland.....Towne Equipment Co.
UTAH
 Salt Lake City.....Wilsons Transport Supply
WASHINGTON
 Seattle.....Northern Commercial Co.
 Pacific Equipment, Inc.
 Spokane.....McCulloch Equipment 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.
HAWAII
 Honolulu.....Edward R. Bacon Co. of Hawaii, Ltd.
NEW MEXICO
 Albuquerque.....R. L. Harrison Co.
OREGON
 Portland.....George M. Philpott Co.
UTAH
 Salt Lake City.....Parker Equipment Co.
WASHINGTON
 Seattle.....Star Machinery Co.
 Spokane.....Star Machinery Co.

METAL FORMS CORP.
 3300 North Booth Street
 Milwaukee 12, 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.

District Manager—Sales and Branch Office
CALIFORNIA
 Los Gatos, 115 Garden Hill Dr. Robert D. Sawyer

Distributors

COLORADO
 Denver.....Booth-Rouse Equipment Co.
IDAHO
 Pocatello.....Flaherty Manufacturing Co.
MONTANA
 Billings.....Western Construction Equipment Co.
 Branch.....Great Falls
UTAH
 Salt Lake City.....Lund Machinery Co.

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.

(Continued in next column)

Miller Electric Mfg. Co., Inc. (Cont'd)
 District Sales Managers

CALIFORNIA
 W. Covina, 1224 S. Larrimore 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
 aluminum lute); Tool Heater; Heated Screed;
 Curbilder.

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.
NEW MEXICO
 Albuquerque.....Construction Machinery Co.
UTAH
 Salt Lake City.....Kimball Equipment Co.
WYOMING
 Casper.....Moss Equipment Co.

MILLER SWIVEL PRODUCTS, INC.
 P.O. Box 938
 Pomona, California

PRODUCTS: Ball Bearing Swivels; High Lift Blocks;
 Automatic Taglines; Insulator Links for
 Cranes; Headache Ball Assemblies.

Factory Representatives

CALIFORNIA
 Fresno—Norman S. Wright & Co.
 1361 Abby St. George W. Hoover
 Newport Beach—1010 Kings Rd. Perry Hopkins
 San Francisco—Norman S. Wright & Co.
 1015 Folsom St. Norman S. Wright, Jr.
COLORADO
 Denver—Paul R. Spencer Co.
 4201 Brighton Blvd. Paul R. Spencer
NEW MEXICO
 Albuquerque—Paul R. Spencer Co.
 3342 Del Rio Rd. Harry Ranville
OREGON
 Portland—Norman S. Wright & Co.
 3607 S.W. 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
HAWAII
 Honolulu.....Pell Co., Inc.
IDAHO
 Pocatello.....Intermountain Equipment Co.
MONTANA
 Billings, Butte, Great Falls and Missoula
 Hall-Perry Machinery Co.
 (Continued in next column)

Miller Swivel Products, Inc. (Cont'd)

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.....Atlas Equipment Co.
WASHINGTON
 Seattle.....B & J Equipment Co.
 Spokane.....Andrews Equipment Service

MILLER TILT-TOP TRAILER, INC.
 450 South 92nd Street
 Milwaukee 14, Wisconsin

PRODUCTS: Tilt-Top Trailers.

Dealers

ALASKA
 (Seattle).....Northern Commercial Co.
 Branches: Anchorage, Fairbanks, Juneau, Ket-
 chikan, Nome, Dawson, Whitehorse
ARIZONA
 Phoenix.....Equipment Sales Co.
 Neil B. McGinnis Equipment Co.
COLORADO
 Denver.....Winter-Weiss Co.
HAWAII
 Honolulu.....Edward R. Bacon Co., Ltd.
IDAHO
 Boise.....Southern Idaho Equipment Co.
 Bonners Ferry.....Bonner Equipment Co.
 Idaho Falls.....Southern Idaho Equipment Co.
 Twin Falls.....Southern Idaho Equipment Co.
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.....Equipment Sales Co.
 N. C. Ribble Co.
 Winter-Weiss Co.
OREGON
 Eugene.....Western Equipment Co.
 Portland.....Andrews & Andrews
UTAH
 Moab.....Cate Equipment Co.
 Salt Lake City.....Cate Equipment Co.
 Lang Construction 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.

MILWAUKEE ELECTRIC TOOL CORP.
 5368 West State Street
 Milwaukee 8, Wisconsin

PRODUCTS: Dymodril for diamond bit drilling;
 Dymorig Stand for dymodrills.

Factory Branch Managers

CALIFORNIA
 Los Angeles, 2569 W. Olympic Blvd.
WASHINGTON
 Seattle, 405 Cedar St. James C. Gray

Representatives

CALIFORNIA
 La Puente, 1402 Evanwood Ave. Dale Nicholson
 San Francisco, 216-11th St. Robert J. Currie
 Santa Ana, 1401 N. Ross St. Walter A. Sivula
COLORADO
 Denver, 8025 W. 9th Ave. Ted Green
OREGON
 Portland, 1605 S.W. Palatine St. Roland R. Premo

Manufacturers' Agent

ARIZONA
 Phoenix, 1007 Grand Ave. Howard Jordan Co.

Distributors

See Yellow Pages of your Telephone Book under
 "Tools, Electric."

MINNEAPOLIS-MOLINE CO.
 Hopkins, Minnesota

PRODUCTS: Tractors—Industrial Wheel Type, In-
 (Continued on next page)

**C.I.T. Loans on Equipment Fleets increase contractors
 working capital funds**

Minneapolis-Moline Co. (Cont'd)

dustrial Crawler Type; Power Units 27—
292 hp, Gas, Diesel, Natural Gas, LP Gas
and Distillate.

Factory Branch

COLORADO
Denver, 6255 Dahlia St.

Western Division Manager

CALIFORNIA
Stockton J. E. Scaddon

Distributors

ARIZONA
Phoenix Lee Redman Equipment Co.
CALIFORNIA
El Cajon Kroeger Equipment Co.
Fresno Fiese & Firstenberger
IDAHO
Burley Burley Truck & Tractor Service Co.
Lewiston J. D. Jacobs & Co.
Nampa Callahan Implement Co.
Rexburg Burtenshaw & Sons
NEVADA
Fallon Valley Equipment Co.
UTAH
Delta Done Equipment Co.
Tooele Garrard Garage & Implement Co.
Tremonton Taylor Farm Service

MINNESOTA MINING & MFG. CO.

900 Bush Avenue
St. Paul 6, Minnesota

PRODUCTS: Reflective Sheeting; Reflective Liquid.

Factory Branch

CALIFORNIA
Los Angeles, 6023 Garfield Ave.

**MISSISSIPPI VALLEY
EQUIPMENT CO.**

1908 Railway Exchange Building
St. Louis 1, Missouri

PRODUCTS: Steel Sheet Piling—H-Bearing and
Pipe Piles; Rebuilt and New Pile Hammers;
Pile Extractors and Pile Driving Accessories;
Cranes, Hoists, Derricks and other types of
heavy construction and railway equipment.
Rented—Sold—Bought.

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, Missis-
sippi, for further information.

**MIXERMOBILE MANUFACTURERS,
INC.**

8027 N.E. Killingsworth
Portland 20, Oregon

PRODUCTS: Scoopmobiles; Mixermobiles; Tower-
mobiles; Stationary Towers; Stationary Mix-
ers.

District Representatives

CALIFORNIA
La Habra, 700 Linda Ave. Glyn O. White
IDAHO
Moscow, 104 N. Washington St. Loren Martin

Dealers

ARIZONA
Phoenix Equipment Sales Co.
CALIFORNIA
Los Angeles Crook Company
Oakland Edward R. Bacon Co.
Sacramento Edward R. Bacon Co.
San Diego Crook Company
San Francisco Edward R. Bacon Co.
MONTANA
Billings, Great Falls and Missoula
..... Western Construction Equipment Co.
NEVADA
Reno General Equipment Co.
(Continued in next column)

Mixermobile Manufacturers, Inc.

(Cont'd)

NEW MEXICO
Albuquerque Equipment Sales Co.
OREGON
Portland Mixermobile Manufacturers, Inc.
UTAH
Salt Lake City Rocky Mountain Machinery Co.
WASHINGTON
Seattle Washington Machinery Co.
Spokane Washington Machinery Co.

MOBILE DRILLING, INC.
960 North Pennsylvania
Indianapolis 4, Indiana

PRODUCTS: Hydraulic Rotary Earth and Rock
Drilling Equipment; Soil Sampling Tools;
Hydraulic Concrete Core Drills and Dia-
mond Drill Bits. Full line of auger and
core drilling tools and accessories.

Factory Personnel

CALIFORNIA
San Francisco—D. S. Riser, Mfg. Representative
COLORADO
Denver, 3301 Poplar St. H. E. Davis
District Representative

Distributors

CALIFORNIA
Los Angeles Fornaciari Co.
San Francisco Howard & Co.
Lippincott Co.
COLORADO
Denver Booth-Rouse Equipment Co.
MONTANA
Billings Western Construction Equipment Co.
Great Falls Western Construction Equipment Co.
WASHINGTON
Seattle Air-Mac, Inc.
Spokane Air-Mac, Inc.

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 Bat-
tery 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.
800 North Lindbergh Boulevard
St. Louis 66, Missouri

PRODUCTS: Ammonium Nitrate.

District Managers

CALIFORNIA
Los Angeles, 6670 E. Flotilla St. A. L. Smith
San Francisco, 111 Sutter St. D. Dunwoody

MORETRENCH CORPORATION

100 Stickle Avenue
Rockaway, New Jersey

PRODUCTS: Wellpoint Systems; Pumps.

Distributor

WASHINGTON
Seattle Andrews Machinery of Wash., Inc.

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
(Continued in next column)

Morgen Manufacturing Co. (Cont'd)

CALIFORNIA

Fresno Contractors Equipment & Supply Co.
Los Angeles Southland Scaffold & Equip. Co.
San Francisco Laurence Myres Co.

OREGON

Portland Andrews & Andrews Equipment Co.

WASHINGTON

Seattle Air-Mac, Inc.
Spokane Air-Mac, Inc.

MORRISON-PELSUE CO.

2001 South Bannock Street
Denver 23, Colorado

PRODUCTS: Stringing Blocks and Sheaves; Vent-
ilating Blowers to warm enclosures, froze
equipment, personnel shacks; Propane and
Gasoline-Operated Portable Heaters; Swivel
Hoists for transformers and line equip-
ment; Ventilators. Equipment is manufac-
tured to warm down equipment and pro-
vide 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) Robert 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; Di-
aphragm Pumps.

MORSE-STARRETT PRODUCTS CO.

1204 49th Avenue
Oakland 1, California

PRODUCTS: Cutters, Wire Rope; Cutters, Cable
Wire Rope Seizing Bands.

Sold through all heavy hardware distributors and
earth moving equipment supply houses through-
out the world.

MOTOROLA COMMUNICATIONS

& ELECTRONICS, INC.
4501 Augusta Boulevard
Chicago 51, Illinois

PRODUCTS: 2-way and Portable Communication
Equipment; Base Stations; Microwave Equip-
ment; Paging Equipment; Closed Circuit
Television.

Factory Branch Managers

CALIFORNIA
Burlingame, 1616 Rollins Rd. Don Brickley
OREGON
Portland, 3833 N.E. Union Ave. Harry Tarbell
UTAH
Salt Lake City, 467 E. Third St. Bob Boyte

MULLER MACHINERY CO., INC.

Whitman Avenue
Metuchen, New Jersey

PRODUCTS: Concrete Mixers; Plaster and Mortar
Mixers; Power Trowels; Hoists; Portable
Space Heaters; Concrete Buggies; Towels
and Floor Hoppers.

Factory Representative

WASHINGTON
Bellevue, 8733-4th Place, N.E. J. A. Dougan Co.

Distributors

ALASKA
Anchorage Craig Taylor Equip. & Supply Co.
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

Miller Machinery Co., Inc. (Cont'd)

CALIFORNIA
 Cajon.....Kroeger Equipment Co.
 Los Angeles.....Southland Scaffold & Equip. Co.
 San Francisco.....Laurence Myers & Co.
 Stockton.....Waco Scaffolding & Equipment Co.
COLORADO
 Denver.....Rental Machinery Co.
 Waco Scaffolding & Equipment Co.
HAWAII
 Honolulu.....Gaspro, Ltd.
IDaho
 Boise.....Arnold Machinery Co.
 Boise Stone & Tile
 Idaho Falls.....Arnold Machinery Co.
 Pomeroy.....Cinder Products Co.
 ampa.....Western Block, Inc.
 Twin Falls.....Volco Builders Supply of Twin Falls
MONTANA
 Billings.....Rental Equipment Co.
 Butte.....Pioneer Equipment & Supply Co.
 Great Falls.....Madden Construction Supply Co.
 Montana.....Monty Machinery Co.
NEVADA
 Reno.....Commercial Hardware Co.
 Sierra Industrial Co.
 Sparks.....S & S Stonyard
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.
 Educated Supplies
 Standard Builders Supply Co.
WASHINGTON
 asco.....Western Materials
 Seattle.....Star Machinery Co.
 Universal Tractor Co.
 Spokane.....Safway Scaffold, Inc. of Spokane
 Yakima.....Fosseen's, Inc.
 Safway Equipment Co.
WYOMING
 Cheyenne.....Keremi Tractor & Equipment Co.

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

CALIFORNIA
 El Monte.....Warnock-Bancroft Equip. Co.
 Oakland.....George Avery
COLORADO
 Denver.....Constructors Equipment Co.
HAWAII
 Honolulu.....Schuman Carriage 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
OREGON
 Portland, 7240 S.E. 34th Ave.....R. F. Rundle
 (Continued in next column)

Murphy Diesel Co. (Cont'd)**Distributors**

ALASKA
 Anchorage.....Bashaw Equipment Co., Inc.
ARIZONA
 Phoenix.....Superior Equipmnet Co.
CALIFORNIA
 Bakersfield.....Glenn Rosa Engine Service
 Fresno.....George M. Philpott Co., Inc.
 Los Angeles.....Industrial Engine Service
 Sacramento.....George M. Philpott Co., Inc.
 San Diego.....National Steel & Shipbuilding Corp.
 San Francisco.....Oswald Machine Works
 San Pedro.....Bolstad Sales & Service
COLORADO
 Denver.....Macdonald Equipment Co.
HAWAII
 Honolulu.....American Factors, Ltd.
IDaho
 Boise.....Starline Equipment Co.
MONTANA
 Butte.....Hall-Perry Machinery Co.
NEW MEXICO
 Albuquerque.....Lively Equipment Co.
 Farmington.....Basin Engine & Equipment Co.
OREGON
 Medford.....Cal-Ore Machinery Co., Inc.
 Portland.....Balzer Machinery Co.
UTAH
 Salt Lake City.....Arnold Machinery Co., Inc.
WASHINGTON
 Seattle.....Alaska-Pacific Supply, Inc.
 Spokane.....General Machinery Co.

L. R. MURPHY SCALE CO., INC.

1610 North "C" Street
 Sacramento 14, California

PRODUCTS: Contractors' Motor Truck Portable Scales; Motor Truck Pit Type Scales; Railway Track Scales; Hopper Scales; Built-in and Livestock Scales; Special Scale Equipment.

Distributors

Sold by machinery and equipment dealers throughout the entire United States.

MURRAY & TREGURTHA, INC.

2 Hancock Street
 Quincy 71, Massachusetts

PRODUCTS: Heavy-duty Marine Propulsion Units (Outboards).

Representative

CALIFORNIA
 Los Angeles, 704 S. Spring St. Thomas L. Renfro

NAPCO INDUSTRIES, INC.

800 North Seventh Street
 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
 Los Angeles.....Lambert Co., Ltd.
 Oakland.....C & C Trailer & Body Co.
COLORADO
 Denver.....Jacobs-Kerr & Co.
MONTANA
 Billings.....H. C. L. Equipment, Inc.
 Great Falls.....H. C. L. Equipment, Inc.
NEW MEXICO
 Albuquerque.....Hobbs Trailer Co.
OREGON
 Portland.....Pacific Body Builders
UTAH
 Salt Lake City.....Lang Construction Equip. Co.
WASHINGTON
 Seattle.....Sound Truck 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.
 (Continued on next page)

Napco Industries, Inc. (Cont'd)**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**ALASKA**

Anchorage.....Bashaw Equipment Co., Inc.

ARIZONA

Phoenix.....Western Machinery Co.

COLORADO

Denver.....Western Machinery Co.

HAWAII

Honolulu.....Hawaiian Equipment Co.

IDaho

Idaho Falls.....Western Machinery Co.

UTAH

Salt Lake City.....Western Machinery Co.

WASHINGTON

Seattle.....Washington 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.....W. McArthur
 San Leandro, 440 Peralta Ave.....Verne Bender
COLORADO
 Denver, 1224 Walnut St.....Ray Lucas
WASHINGTON
 Seattle, 2737 First Ave. S.....Hugh S. Howe

Distributors

ARIZONA
 Phoenix.....Consolidated Welding Supply Co.
MONTANA
 Billings.....Great Northern Tool & 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
 (Continued on next page)

C.I.T.'s Pay-As-You-Depreciate Plan provides long term financing for equipment purchases

**Neo-Flasher Manufacturing Co.
(Cont'd)****Distributors**

ARIZONA	
Phoenix	Graybar Electric Co. McDermott Equip. 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.
HAWAII	
Honolulu	Lewers & Cooke, Ltd.
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.

**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	Charles W. Daily

Distributors

ARIZONA	
Phoenix	Western Machinery Co.
CALIFORNIA	
Fresno	Edward R. Bacon Co.
City of Industry	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.
Great Falls	Seitz Machinery Co., Inc.
S. NEVADA	
City of Industry	Smith Booth Usher Co.
N. NEVADA	
(Sacramento)	Edward R. Bacon Co.

(Continued in next column)

Noble Company (Cont'd)**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 Clyde Equipment Co.

Spokane Western Machinery Co.

WYOMING

Casper Studer Tractor & Equipment Co.

**NO-JOINT CONCRETE PIPE CO.
P.O. Box 609-A
Yuba City 2, California****PRODUCTS:** Machine cast in place concrete pipe for storm drains, irrigation and underground canals.**Factory Branch Managers****ARIZONA**

Glendale, P.O. Box 66 Philip Congrove

COLORADO

Denver, P.O. Box 18728 Earl Brubaker

NEVADA

Reno, P.O. Box 984 Chester Baldwin

NEW MEXICO

Rocky Ford, Colo., P.O. Box 525 John Lindeman

**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 Branch****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 Pull-shovels—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.
NEVADA	
Reno	Sierra Machinery Co.
NEW MEXICO	
Albuquerque	J. D. Coggins Co.
OREGON	
Meford	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 Pump Hoists; Pavement Breakers; Speed Reducers; Steam and Power Pumps.**Distributors**

CALIFORNIA	
Los Angeles	Garlinghouse, Fremont, Inc.
COLORADO	
Denver	Air Rentals, Inc.
IDAHO	
(Salt Lake City)	Heiner Equipment & Supply Co.
UTAH	
Salt Lake City	Heiner Equipment & Supply Co.
WYOMING	
(Denver)	Air Rentals, Inc.
(Salt Lake City)	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 Branch Managers**

CALIFORNIA	
Oakland, 1006 47th Ave.	G. M. Blo
OREGON	
Portland, 18203 N.E. Halsey, Box 7545	C. E. Stov

Regional Sales Manager

CALIFORNIA	
Oakland, 1066 47th Ave.	C. R. Hu

Distributors

ALASKA	
Anchorage	Bashaw Equipment Co., Inc.
ARIZONA	
Phoenix	Guerin Implement Co.
Prescott	Yavapai Parts & Machine Shop
Tucson	Southern Arizona Machinery Co.
Yuma	Sturges Implement Co.
CALIFORNIA	
Avenal	Rufus McClintock
Bakersfield	Monarch Sales Co.
Blythe	Munson Equipment Co.
Brawley	Schneider Tractor Co.
Calistoga	Flynn Tree Service
Coachella	Coachella Valley Tractor Co.
Colton	Condosta Tractor Co.
Corcoran	F. G. Cross Hardware
Cotati	H-C Equipment Co.
Dinuba	The Richland
Escondido	Benton Equipment Co.
Eureka	Rogers Machinery Co., Inc.
Ferndale	Ferndale Implement Service
Fowler	Fowler Farm Supply
Fresno	Pursley Machinery Co.
Gardena	Schneider Tractor Co.
Goleta	Goleta Tractor Co.
Heber	Torrence's Farm Implement
Lancaster	Robertson Implement Co.
Lodi	Bechtold Tractor Service
Los Angeles	Larson Equipment Co.
Los Banos	Murtos Tractor & Equipment Co.
Madera	Shafer Implement Co.
Merced	Polzine Farm Equipment
Modesto	Equipment, Inc.
Oxnard	Green & Berry, Inc.
Porterville	Farm Equipment Co.
Rio Vista	Dolk Tractor Co.
Sacramento	Flood Equipment Co.
Salinas	Ashton Equipment Co.
San Diego	Kenton Equipment Co.
San Jose	M. F. D., Inc.
San Leandro	M. F. D., Inc.
Santa Maria	Sanchez Equipment Co.
Shafter	Frank Russell Mfg. Co.
Stockton	H & M Tractor Co.
Tracy	Sasser Tractor & Equipment Co.
Tulare	Jim Ingle Co.
Tustin	Schneider Tractor Co.
Turlock	Moore's Brake Service
Ukiah	Banzhaf Farm Machinery Co.
Woodland	Yolo Tractor Co.
Yuba City	Oliver Equipment Co.
IDAHO	
Boise	Engineering Sales Service, Inc.
MONTANA	
Billings	Doyle S. Potts, Inc.
Helena	Caird Engineering Works, Inc.
Kalispell	Wagnild's Farm Supply
NEVADA	
Reno	The Roeder Equipment Co.

(Continued on next page)

C. I. T. CORPORATION120 Montgomery Street, San Francisco
Northern Life Tower, Seattle416 West 8th Street, Los Angeles
Equitable Building, Portland

liver Corp. (Cont'd)

OREGON	
Grants Pass	Redwood Tractor Co.
Grass Valley	Hartley Equipment Co.
Gresham	Moore Machinery Co.
Hillsboro	Oliver Sales & Service
Island City	Valley Implement Co.
Maupin	Kenneth Snodgrass
Medford	Eatherton Engine & Equipment Co.
Portland	Oregon Tractor & Equipment, Ltd.
Roseburg	Paul Casey Equipment Co.
UTAH	
Salt Lake City	Arnold Machinery Co., Inc.
WASHINGTON	
Aberdeen	Grays Harbor Equipment Co., Inc.
Chehalis	Buck & Son Farm Equip. Co., Inc.
Everton	Everson Implement Co.
Mt. Vernon	Hamburg Iron Works
Puyallup	Reinier Tractor & Equipment Co.
Seattle	Fray Equipment Co., Inc.
Vancouver	Wiebold's Tractors
Walla Walla	Melcher Ray Machinery Co.
Yakima	Yakima Implement Co.

MARK 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 Drive and Quick-Drive-Hammer Powered Stud Drives for fastening light building material to concrete or steel; Omak-Graham Stud Welders—Stored Energy System.

Factory Branches

CALIFORNIA	
Los Angeles—West Coast Industrial Sales Co.	
5401 W. Pico Blvd.	Bob Miller
San Francisco—West Coast Industrial Sales Co.	
746 Ellis St.	John Cram

Distributors

ALASKA	
Anchorage	Caliber 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.
Pasadena	Shepherd Sales Co.
Pomona	Shepherd Sales Co.
San Diego	Construction Tool & Supply Co.
COLORADO	
Colorado Springs	Bishop-Hill Tool & Paint Co.
HAWAII	
Honolulu	Gaspro, Ltd.
NEW MEXICO	
Albuquerque	W. J. Burke & Co.
OREGON	
Portland	A & W Sales Co.
	West Pacific Sales Co.
UTAH	
Salt Lake City	T. C. Stayner Co.
	Mark A. Stokes Co.

D. W. ONAN & SONS, INC.

**2515 University Avenue, S.E.
Minneapolis 14, Minnesota**

PRODUCTS: Gasoline and Diesel Electric Generating Plants; Gasoline Engines; Separate Generators.

Zone Managers

CALIFORNIA	
Palo Alto, 1588 Edgewood Dr.	Frank Gernand
COLORADO	
Denver, 2800 Tennyson St.	Les LeLande
OREGON	
Portland, 401 S.E. 50th Ave.	Bill Haynes

Distributors

ARIZONA	
Phoenix	Equipment Sales Co.
CALIFORNIA	
Monterey, San Diego, San Francisco, Stockton and Wilmington	Ets-Hokin & Galven
COLORADO	
Denver	B. K. Sweeney Co.
HAWAII	
Honolulu	Honolulu Iron Works

(Continued in next column)

D. W. Onan & Sons, Inc. (Cont'd)

MONTANA	
Billings	Great Northern Tool & Supply
Cutbank	Great Northern Tool & Supply
Great Falls	Brack Motor Supply
Helena	Brack Motor Supply
NEVADA	
Reno	Air Service Co.
NEW MEXICO	
Albuquerque	Industrial Supply Co.
OREGON	
Portland	Electrical Construction Co.
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: All-Wheel-Drive Trucks.

Sales Representatives

CALIFORNIA	
(Arizona, Idaho, Nevada, New Mexico, Oregon, Utah and Washington)	
Fair Oaks, 5011 Dory Way	Otto E. Scott
COLORADO, MONTANA & WYOMING	
(Oshkosh, Wis.)—c/o Oshkosh Motor Truck, Inc.	
	Lee A. Miller

Distributors

ALASKA	
(Seattle)	Yukon Equipment, Inc.
ARIZONA	
Phoenix	Arizona Equipment Sales, Inc.
CALIFORNIA	
Los Angeles	LeRoi-Rix Machinery Co.
San Francisco	Coast Equipment Co.
COLORADO	
Denver	Liberty Truck & Parts Co.
IDAHO	
Boise	Engineering Sales & Service, Inc.
MONTANA	
Billings	Western Construction Equipment Co.
NEW MEXICO	
Albuquerque	N. C. Ribble Co.
OREGON	
Portland	Air-Mac, Inc. of Oregon
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.

Factory Representative

CALIFORNIA	
Glendale, 1322 N. Central	Arlie J. Simmonds

Distributors

ARIZONA	
Phoenix	Western Machinery Co.
CALIFORNIA	
Anaheim	Orange County Tractor Co.
City of Industry	Smith Booth Usher Co.
Colton	Condostra Tractor Co.
Covina	Covina Equipment Co.
Lancaster	Robertson Implement Co.
Oakland	Blakemore Equipment Co.
San Diego	Kenton Equipment Co.
San Francisco	Edward R. Bacon Co.
COLORADO	
Denver	Machinery Mart, Inc.
IDAHO	
Boise	Starline Equipment Co.
NEVADA	
Reno	Graid Equipment Co.
	Sanford Tractor & Equipment Co.
NEW MEXICO	
Albuquerque	Evans Equipment Co.
Carlsbad	Wade Equipment Co.

(Continued in next column)

Ottawa Steel Division (Cont'd)

OREGON	
Albany	Herrold & Jensen Implement Co.
Eugene	Western Equipment Co.
Portland	Western Equipment Co.
UTAH	
Salt Lake City	Kimball Equipment Co.
WASHINGTON	
Seattle	Star Machinery Co.
	Washington Machinery Co.
Spokane	Dart Truck & Tractor Co., Inc.
	Western Machinery Co.
WYOMING	
Casper	Keremi Tractor & Equipment Co.
Cheyenne	Keremi Tractor & Equipment Co.

OVERSTROM & SONS, INC.

**2213 West Mission Road
Alhambra, California**

PRODUCTS: Vibrating Screens and Grizzlies.

Distributors

ALASKA	
(Seattle)	Washington Machinery Co.
ARIZONA	
Phoenix	Road Machinery Co.
CALIFORNIA	
San Francisco	Aggregate Engineers
MONTANA	
Butte	Hall-Perry 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	Parkhill-Murray Equipment Co.
Tucson	Parkhill-Murray Equipment Co.
CALIFORNIA	
Los Angeles	Santa Fe Equipment Co.
COLORADO	
Denver	Any crane and shovel distributor
Grand Junction	Any crane & shovel distributor
HAWAII	
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 "longlife" Traffic Control Signals.

PB LOADER MANUFACTURING CO.

**P.O. Box 341
Fresno, California**

PRODUCTS: Frost Loader (truck front-end loader.)
(Continued on next page)

**C.I.T.'s Engineered Finance Plans fit the needs of
contractors and distributors**

**PB Loader Manufacturing Co.
(Cont'd)**

Sales Representative

CALIFORNIA
Piedmont, 1855 Trestle Glenn Rd...Ken Colburn

Distributors

ARIZONA
Phoenix.....Western Machinery Co.

CALIFORNIA
Fresno, Oakland, Sacramento and
San Francisco.....Edward R. Bacon Co.
Los Angeles.....Calavar Corporation

COLORADO
Denver.....Western Machinery Co.

IDAHO
Boise.....Western Machinery Co.

NEVADA
Reno.....Truck Parts & Equipment Sales

OREGON
Eugene.....Star Equipment Co.

UTAH
Salt Lake City.....Western Machinery Co.

PACIFIC CAR & FOUNDRY CO.Factory Street
Renton, Washington

PRODUCTS: (Tractor Equipment Division): Logging
Winches and Hoists; Logging Arches; Log-
ging Bunks; Tractor Cranes; Logging Yard-
ers; Rigging Equipment for tractor logging.

Distributors

ALL PRINCIPAL TRACTOR DEALERS IN ALL
STATES**PACIFIC MERCURY
MARKETING DIV.**14052 Burbank Boulevard
Van Nuys, California

PRODUCTS: Electric Generator Sets; Concrete Vi-
brators (Internal); Highway Warning Flash-
er Lights; Barricades.

Sales Supervisor

CALIFORNIA
Van Nuys, 14052 Burbank Blvd...John French

Field Engineers

CALIFORNIA
Fair Oaks, 7157 Sunset Ave....Glenn Thole
Van Nuys, 14052 Burbank Blvd....Ronald Lee
John Dixon

OREGON
Portland, 5835 N.E. Davis.....Marty Bixel

Distributed in major cities throughout the West

PACIFIC PUMPING CO.
9201 San Leandro Street
Oakland 3, California**PRODUCTS:** Pumps, Power.

Factory Branches

CALIFORNIA
Los Angeles, 1020 S. Atlantic Blvd.**OREGON**
Portland, 526 N.W. Broadway...S. B. Huntting**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.
Keenan Pipe & Supply Co.
Phoenix Pipe & Supply Co.

COLORADO
Denver.....Hendrie & Bolthoff Co.
Mine & Smelter Supply Co.
Waukesha Engine & Equipment Co.

NEW MEXICO
Albuquerque.....Waukesha Engine & Equip. Co.**NEVADA**
Reno.....Crane Co.
Record Supply Co.

(Continued in next column)

Pacific Pumping Co. (Cont'd)

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
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;
Plastic Coating; Swaged and Spliced As-
semblies.

Factory Branch Managers

CALIFORNIA
Berkeley, 607 Addison St.....Jean Kleugel**OREGON**
Portland, 3615 N. W. St. Helens...Charles Leaver

Order Service Department

CALIFORNIA
Los Angeles, 1840 E. 15th St...R. E. Miller, Mgr.

Distributors

ALASKA
Anchorage.....Evans Engine & Equipment Co.
Kenai.....Mountain States Drilling Co.
Ketchikan.....Tongass Trading Co.

ARIZONA
Glendale.....Contractors Equipment & Supply Co.
Phoenix.....Parkhill-Murray Co.
Steel & Pipe Supply Co. of Arizona
Tucson.....Tractor Parts & Supply Co.
Parkhill-Murray Co.

CALIFORNIA
Arcata.....Munnell & Sherrill of California
Bakersfield.....Lamb Wire Line Service
El Cajon.....KCY Tractor Co.
Fort Bragg.....Lilley's Building Supplies
Fresno.....Fresno Wire Rope & Rigging
Long Beach.....M. C. Bowers
Brooks Wire Line Co.

Quincy.....Feather River Auto Parts
Redding.....Paul Droscher Sales
Redway.....Beryl Lewis, Armfield Machine Shop
San Francisco.....Weeks-Howe-Emerson Co.
San Pedro.....Seaside Supply Co.
Santa Ana.....Knox Industrial Supplies
Susanville.....Poulsen Welding Shop
Ukiah.....Acme Rigging Co.
Ventura.....Garst Wire Line Service
Willow Creek.....Edwards Logging Supply
Yreka.....Yreka Hardware Co.

HAWAII
Hilo.....Theo. H. Davies & Co., Inc.
Honolulu.....Theo. H. Davies & Co., Inc.

MONTANA
Great Falls.....Monty Machinery Co.
Kalispell.....Davis Pipe & Machinery
Miles City.....L. P. Anderson Trucking Co.

NEVADA
Fallon.....Bernie Spencers Industrial Sales & Ser.
Las Vegas.....Blystone Equipment Co.
Tractor Parts & Equipment

NEW MEXICO
Albuquerque.....New Mexico Equipment Co.
Carlsbad.....Automotive Industrial Supply Co.
Grants.....Nellis Motor Co.
 Lordsburg.....Southwest Supply Co.
Silver City.....Tracto Co.

OREGON
Coos Bay.....Loggers Supply Co.
Dallas.....McCaffery's Machine
Roseburg.....Flury Supply Co.
Springfield.....Roberts Supply Co.
Sweet Home.....Sherman Supply Co.
The Dalles.....Dieschneider Equipment Co.

UTAH
Salt Lake City.....Holland Equipment Co.

WASHINGTON
Aberdeen.....Grays Harbor Equipment Co.
Bellingham.....Powder Sales & Equipment Co.
Coeville.....Bargain Warehouse
Ephrata.....Galloway Sales & Service
Seattle.....Lines, Inc.
Spokane.....Andrews Equipment Co.

WYOMING
Casper.....B. F. Walker Trucking Co.**PAGE ENGINEERING CO.**
Clearing Post Office
Chicago 38, Illinois

PRODUCTS: Walking Draglines, Automatic Drag-
line Buckets; Chain and Bucket Accessories
including Kwik-Weld End and Repair Link
Twin-Pin Connecting Link.

Distributors

ARIZONA
Phoenix.....Arizona Equipment Sales, Inc.
Lee Redman Equipment Co.
Western Machinery Co.

CALIFORNIA
City of Industry.....Simth Booth Usher Co.
Los Angeles.....Brown-Bevis Industrial Eqp't. Co.
Casey-Metcalf Machinery Co.
Cook Bros. Equipment Co.
The Brose Co.
Oakland.....Edward R. Bacon Co.
San Francisco.....Coast Equipment Co.
Robinson Equipment Co.
Standard Machinery Co.

COLORADO
Denver.....Air Rentals, Inc.
Booth-Rouse Equipment Co.
Colorado Builders Supply Co.
Fincham Equipment Co.
Faris-Moritz Supply Co.
Tudor Equipment Co.
H. W. Moore Equipment Co.
McCoy Company
McKelvey Machinery Co.
Power Equipment Co.
Western Machinery Co.

IDAHO
Boise.....Intermountain Equipment Co.
The Sawtooth Co.
Starline Equipment 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.
Helena.....Steffeck Equipment Co.
Missoula.....Hall-Perry Machinery Co.
Miller Machinery Co.
Mountain Tractor Co.
Westmont Tractor & Eqp't. Co.
Sidney.....Tractors & Equipment Co.

NEW MEXICO
Albuquerque.....Contractors Eqp't. & Supply Co.
The Cornelius Co.

OREGON
Portland.....Balzer Machinery Co.
Feenaughty Machinery Co.
Howard-Cooper Corp.
Manitou Equipment Co.

UTAH
Salt Lake City.....Arnold Machinery Co.
Foulger Equipment Co.
Holland Equipment Co.
Lang Construction Equip. Co.
H. H. Nielson
Western Machinery Co.
Wheeler-Kershaw Co.

WASHINGTON
Seattle.....A. H. Cox & Co.
Star Machinery Co.
Pacific American Commercial Co.
Pacific Hoist & Derrick Co.
Washington Machinery Co.
Western Tractor & Equipment Co.
Yukon Equipment Co.
Spokane.....Andrews Equipment Co.
Helliwell Equipment Co.
Modern Machinery Co.
Star Machinery Co.

WYOMING
Casper.....Keremi Tractor & Equipment Co.
Studer Tractor & Equipment Co.
Cheyenne.....Wilson Equipment & Supply Co.
Wortham Machinery Co.
Greybull.....Nash-Davis Machinery Co.

PARKERSBURG RIG & REEL
P.O. Box 573
Coffeyville, Kansas

PRODUCTS: Auxiliary Braking Equipment; "Hydro-
tarders" for heavy rolling stock.
(Continued on next page)

C. I. T. CORPORATION120 Montgomery Street, San Francisco
Northern Life Tower, Seattle416 West 8th Street, Los Angeles
Equitable Building, Portland

akersburg Rig & Reel (Cont'd)
Distributors
ALIFORNIA
 Los Angeles.....Hetzel Bros.
DEALERS OF TRUCK & TRACTOR MANUFACTURERS

IE PARSONS COMPANY
200 North 8th Avenue East
P. O. Drawer 431
Newton, Iowa

PRODUCTS: Trenchliners and Trenchmobile (Ditchers and Trenchers).

Factory Branch
ALIFORNIA
 Stockton.....Koehring Co. of California
 Mgr.—R. L. Gebhard, 2200 Country Club Blvd.

District Representative
ALIFORNIA
 Daly City, 77 Cliffside Dr.....R. H. Danford

Distributors
ALIFORNIA
 Phoenix.....Neil B. McGinnis Equipment Co.
ALIFORNIA
 Los Angeles.....Harron, Rickard & McCone Co.
 San Francisco.....Standard Machinery Co.
OLORADO
 Denver.....Colorado Builders' Supply Co.
AHO
 Boise.....Engineering Sales Service, Inc.
ONTANA
 Billings Western Construction Machinery Co.
 Great Falls Western Construction Machinery Co.
EW MEXICO
 Albuquerque.....The Cornelius Co.
EGON
 Portland.....Feenaughty Machinery Co.
IAH
 Salt Lake City.....Kimball Equipment Co.
ASHINGTON
 Seattle.....Pacific Hoist & Derrick Co.
 Spokane.....American Machine Co.
YOMING
 Casper.....Colorado Builders' Supply Co.

ASCOE 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
ALASKA
 Anchorage.....Taft Structurals
RIZONA
 Phoenix.....Young Steel Buildings
ALIFORNIA
 El Centro.....W. H. Douthitt Steel & Supply
 Eureka.....Jones & Majors
 Fresno.....L. B. Pipes Co.
 Sacramento.....E. L. Welter
 San Diego.....Security Construction Co.
 San Leandro.....Cen-Cal Co.
 Woodland.....C. Don Huff, Jr.
 Yuba City.....Vernon Hacker
OLORADO
 Grand Junction.....Mesa Pipe & Bridge Co.
AWAII
 Honolulu.....Frank Newton
AHO
 Boise.....Gate City Steel, Inc.
ONTANA
 Billings.....Roscoe Steel & Culvert Co.
 Butte.....Construction Materials Co.
EVADA
 Reno.....Meredith Steel Construction Co.
ASHINGTON
 Seattle.....Leckenby Structural Steel Co.

HE PATENT SCAFFOLDING CO.,
NC.

38-21 12th Street
Long Island City 1, New York

PRODUCTS: All types of Steel and Aluminum Scaffolds; Steel Shoring for concrete construction.
 (Continued in next column)

The Patent Scaffolding Co., Inc.
(Cont'd)

Factory Branches
CALIFORNIA
 Los Angeles—6931 Stanford Ave...B. H. Lyon
 San Francisco—1695 Mission St....R. B. Bergh
WASHINGTON
 Seattle—420 Eighth Ave. N.....J. J. Wilbur

Distributors
ARIZONA
 Phoenix.....Superior Equipment Co.
CALIFORNIA
 Fresno.....Ray Wayte
 N. Sacramento.....Capitol Scaffolding & Eqpt. Co.
 San Diego.....Squires-Belt Material
 San Jose.....Borchers Bros.
COLORADO
 Colorado Springs.....Crissey Fowler Lumber Co.
 Denver.....The United Material Co.
IDAHO
 Boise.....Boise Concrete Specialties Co.
 Idaho Falls.....Messenger Masonry Supply Co.
MONTANA
 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 & 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 Crumme
 San Francisco, 9 First St.....S. C. Hoepfner
NEW MEXICO
 Albuquerque, Manager.....Max Maurer

District Manager
CALIFORNIA
 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
DEALERS IN ALL PRINCIPAL CITIES

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).....A. E. Rich
WASHINGTON
 Bellingham (Olympic Portland Cement Div.).....H. M. Krabbe

Division Sales Managers
CALIFORNIA (S)
 Los Angeles—National Oil Bldg., 609 S. Grand.....C. W. McKinley
CALIFORNIA (N)
 Oakland—1924 Broadway.....J. V. Jansse
HAWAII
 Honolulu—P. O. Box 79.....F. E. Justice
WASHINGTON
 Seattle—5975 E. Marginal Way.....G. K. Wilson
 (Continued in next column)

Permanente Cement Co. (Cont'd)
Sales Representatives

ALASKA
 Anchorage—P. O. Box 1698 ..H. E. Dougherty
OREGON
 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.

Factory Branch
CALIFORNIA
 San Francisco—757 Folsom St.

Distributors
ARIZONA
 Phoenix.....Trucks, Inc.
CALIFORNIA
 Eureka.....DeBon Motor Co. of Eureka
 Fresno.....Connell Motor Truck Co.
 Los Angeles.....Motor Truck Distributors Co.
 San Jose.....Coast Counties Truck & Eqpt. Co.
 Sacramento—Parts.....Brown's Truck Supply Co.
 Stockton.....Connell Motor Truck Co.
 Ukiah.....DeBon Motor Co. of Ukiah
 Ventura.....Motor Truck Distributors Co.
COLORADO
 Denver.....Kaer Truck & Equipment Co.
HAWAII
 Hilo.....Pell Co., Inc.
 Honolulu.....Moir Industries, Inc.
IDAHO
 Boise.....Glenn Dick Equipment Co.
NEVADA
 Reno.....Truck Parts & Equipment Co.
NEW MEXICO
 Albuquerque.....Leonard Motor Co.
 Farmington.....Farmington Truck & Equipment Co., Inc.
OREGON
 Portland.....Automotive Equipment Co.
UTAH
 Salt Lake City.....Peterbilt Truck Sales, Inc.
WASHINGTON
 Seattle.....Northwest Truck Sales, Inc.
 Spokane.....Inland Diesel & Machinery Co.

PETTIBONE MULLIKEN CORP.
4700 Division Street
Chicago 51, Illinois

PRODUCTS: Motor Graders; Tractor Shovels; Speed Swing Loaders; Yard Cranes; Bucket Loaders; Fork Trucks; Bucket Conveyor Loaders; Under Car Conveyors; Material Handling Buckets; Clamshell, Dragline, Pullshovel Dippers and Shovel Dippers; Manganese Steel Castings; Conveyors; Feeders; Snow Plows—rotary.

Factory Branch
CALIFORNIA
 N. Hollywood, 6900 Tujunga Ave..Robert Leibsle
Western Regional Manager
CALIFORNIA
 San Francisco, 593 Market St.....L. Wichman
District Managers
ARIZONA
 Phoenix, 3019 N. 55th Pl.....Roger Bonny
CALIFORNIA
 Walnut Creek, 135 Cerezo Dr.....Frank Bufford
WASHINGTON
 Spokane, 2908 Princeton Ave.....Lee Gillette

Distributors
CALIFORNIA
 Bakersfield.....Inland Equipment Co.
 Oakland.....Spears-Wells Machinery Co., Inc.
 San Diego.....Kenton Equipment Co.
COLORADO
 Denver.....Liberty Trucks & Parts Co.
IDAHO
 Boise.....Arnold Machinery Co., Inc.
 Idaho Falls.....Arnold Machinery Co., Inc.
MONTANA
 Helena.....Montana Powder & Equipment Co.
NEVADA
 Reno.....The Roeder Equipment Co.
NEW MEXICO
 Albuquerque.....Central New Mexico Eqpt. Co.
OREGON
 Eugene.....Western Equipment Co.
 Portland.....Loggers & Contractors Machinery Co.
UTAH
 Salt Lake City.....Arnold Machinery Co., Inc.
WASHINGTON
 Seattle.....Western Tractor & Equipment Co.
 Spokane.....Andrews Equipment Service
 (Continued on next page)

C.I.T. Loans on Equipment Fleets increase contractors working capital funds

Pettibone Mulliken Corp. (Cont'd)**WYOMING**

Casper.....Moss Equipment & Supply Co.

PETTIBONE MULLIKEN CORP.

Pettibone New York Div.
1212 E. Dominick Street
Rome, New York

PRODUCTS: Clamshell Buckets; Bucket Loaders;
 Conveyors; Graders.

Regional Manager**CALIFORNIA**

San Francisco—593 Market St...Len W. Wichman

District Managers**ARIZONA**

Phoenix—3019 N. 55th Pl...Roger D. Bonney

CALIFORNIA

Walnut Creek—135 Cerezo Dr...Frank Boufford

WASHINGTON

Spokane—2908 W. Princeton...Lee Gillette

Distributors**CALIFORNIA**

Bakersfield.....Inland Equipment Co.

N. Hollywood.....Pettibone Wood Mfg. Co.

Oakland.....Spears-Wells Machinery, Inc.

San Diego.....Kenton Equipment Co.

COLORADO

Denver.....Liberty Trucks & Parts Co.

IDAHO

(Salt Lake City)....Arnold Machinery Co., Inc.

MONTANA

Helena.....Montana Powder & Equipment Co.

NEVADA

Reno.....Roeder Equipment Co.

NEW MEXICO

Albuquerque.....Central New Mexico Eqpt. Co.

OREGON

Eugene.....Western Equipment Co.

Portland.....Western Equipment of Portland

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; Spread Boxes; Windrow
 Proportioners; Cement Bazookas; Cement
 Bulkers; Tank Trailers.

Regional Manager**CALIFORNIA**

San Francisco—593 Market St...L. W. Wichman

District Managers**CALIFORNIA**

Concord—1254 Linden Dr...I. H. McGinnis

WASHINGTON

Spokane—2908 W. Princeton Ave...Lee Gillette

Distributors**ARIZONA**

Phoenix.....Equipment Sales Co.

CALIFORNIA

Los Angeles.....Pettibone Wood Branch

N. Hollywood.....Pettibone Wood Mfg. Co.

Oakland.....Spears-Wells Machinery Co.

COLORADO

Denver.....H. W. Moore Equipment Co.

IDAHO

Boise.....Arnold Machinery Co.

MONTANA

Helena.....Montana Powder & Equipment Co.

NEVADA

Reno.....Sierra Machinery Co., Inc.

NEW MEXICO

Albuquerque.....The Cornelius Co.

OREGON

Portland.....Loggers & Contractors Machinery Co.

UTAH

Salt Lake City.....Arnold Machinery Co.

WASHINGTON

Spokane.....Modern Machinery Co., Inc.

PHOENIX PRODUCTS CO.

4733 North 27th Street
Milwaukee 9, Wisconsin

PRODUCTS: Heavy Duty Floodlights for long lamp
 life under shock and vibration conditions.
 (Continued in next column)

Phoenix Products Co. (Cont'd)**Distributors****CALIFORNIA**

San Francisco.....California Electric Supply Co.

Phillips & Edwards Electric Corp.

Connell Motor Truck Co.

COLORADO

Stockton.....C & C Tire & Supply Co.

HAWAII

Honolulu.....Honolulu Electrical Products, Ltd.

Wailuku, Maui.....Royal Tire & Motor Co., Ltd.

IDAHO

Boise.....General Electric Supply Co.

MONTANA

Great Falls.....Cascade Electric Co.

NEVADA

Reno.....Gardner Automotive Parts

OREGON

Portland.....Clyde Equipment Co.

WASHINGTON

Seattle.....A. H. Cox & Co.

Spokane.....Jensen-Byrd Co.

R. H. PIERCE MANUFACTURING CO.

245 Blair Boulevard
Eugene, Oregon

PRODUCTS: Quick Pipe for construction handling
 of air, water, gas and other liquids.

Distributors**ARIZONA**

Phoenix.....Wintroath Pumps, Inc.

CALIFORNIA

Bakersfield.....Wintroath Pumps, Inc.

Chico.....Jeffery Brothers

Fort Jones.....R. E. Banning

Fresno.....Wintroath Pumps, Inc.

Hemet.....Nelson Machinery Co.

San Joaquin.....Westside Pump Co.

San Jose.....Bruce Barton Pump Service

Santa Rosa.....Harvey M. Berglund

COLORADO

Fort Morgan.....Farm Pipe Lines, Inc.

IDAHO

Idaho Falls.....Mel Brown Co.

MONTANA

Missoula.....Montana Mercantile Co.

OREGON

Athena.....Far More Distributing Co.

Eugene.....Loggers & Contractors Machinery Co.

.....Ramsey Waite Co.

Portland.....Loggers & Contractors Machinery Co.

Salem.....T. L. Kuhns Co.

UTAH

Salt Lake City.....Snyder Distributing Co.

WASHINGTON

Moses Lake.....Grant County Tractor Co.

Tacoma.....Tacoma Plumbing Supply

Wenatchee.....Columbia Concrete Pipe Co.

.....Tacoma Plumbing Supply

Yakima.....Crop King Co.

PIONEER ENGINEERING**DIVISION OF POOR & COMPANY**

3200 Como Avenue, S.E.
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; Cement
 Plant Equipment; Bituminous Mixing
 Plants; Bituminous Pavers.

District Representatives**COLORADO**

Denver—2330 Kearney St...Arthur W. Smith, Jr.

OREGON

Portland—2145 NE Hancock...Wm. H. Schanep

Distributors**ARIZONA**

Phoenix.....Neil B. McGinnis Equipment Co.

CALIFORNIA

Los Angeles.....Cook Bros. Construction Eqpt. Co.

Oakland.....Cook Bros. Truck & Equipment Co.

COLORADO

Denver.....The Colorado Builders Supply Co.

IDAHO

Boise.....Southern Idaho Equipment Co.

Idaho Falls.....Southern Idaho Equipment Co.

MONTANA

Billings.....Industrial Equipment Co.

Great Falls.....NorMont Equipment Co.

Kalispell.....Westmont Tractor

Missoula.....Westmont Tractor

(Continued in next column)

**Pioneer Engineering, Division of
Poor & Company (Cont'd)****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

Price.....Cate-Carbon Equipment Co.

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.

Garner Avenue & Duck Road
Grandview, Missouri

PRODUCTS: Truck Mounted Cranes (Hydra-Lift)
 Aerial Platforms with 40 ft., 50 ft. and
 65 ft. working heights).

District Representative**CALIFORNIA**

San Mateo, 1789 Borden Ave.....Steve Zor

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

Boise.....Engineering Sales & Service, Inc.

MONTANA

Helena.....Montana Powder & Equipment Co.

NEW MEXICO

Albuquerque.....N. C. Ribble Co.

OREGON

Eugene.....Loggers & Contractors Mch. Co.

Portland.....Loggers & Contractors Mch. Co.

UTAH

Salt Lake City.....Foulger Equipment Co.

WASHINGTON

Seattle.....Hatten Machinery Co.

.....Star Machinery Co.

WYOMING

Casper.....Moss Equipment & Supply Co.

PNEUMATIC LOADING MACH. CO.

806 Central Tower
703 Market Street
San Francisco 3, Calif.

PRODUCTS: Explosive Loading and Tamping Machine.

PORTA HOUSE FIELD OFFICES

6767 Broadway Terrace
Oakland 11, Calif.

PRODUCTS: Prefabricated-Portable-Plywood Construction Field Offices and Tool Sheds.

Distributors**CALIFORNIA**

Bakersfield.....Mismen

Fresno.....Contractors Service Co.

Los Angeles.....Constructors Supply Co.

Oakland.....Porta House-Ridgely K. Doe

Redding.....Lowry Equipment Co.

Sacramento.....The Robert Cronin Co.

W. Sacramento.....Beatty Scaffold, Inc.

Santa Ana.....Blystone Equipment Co.

IDAHO

Boise.....Bargain Equipment Co.

OREGON

Portland.....Bardi General Contracting Co.

WASHINGTON

Enumclaw.....Garrett Distributing Co.

H. K. PORTER CO., INC.

Thermoid Division, Pioneer W
P. O. Box 791
Pittsburg, California

PRODUCTS: Belting—transmission, conveyor
 (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

K. Porter Co., Inc. (Cont'd)

elevator; Industrial Hose—wrapped and molded for air, water, steam, oil, suction and welding; Fire Hose; Packing—sheet packing, chute and rubber packing, press pads, chute lining; Matting—moulded and extruded products; Tank and Pipe Rubber Lining; Specialty Rubber Products.

Factory Branches

CALIFORNIA
 Angeles—1100 S. Santa Fe....R. E. Cook
 Covers S. California, Arizona, Clark County, Nevada and New Mexico).
 San Francisco—129 Sylvester St.
 (Covers N. California, Colorado, Nevada, Utah and Wyoming).
WASHINGTON
 Seattle—902-1st Ave. S....R. J. Labyak
 (Covers Washington, Idaho, Oregon and Montana).

Regional Manager

CALIFORNIA
 San Francisco—Pioneer Wks., P. O. Box 791
 James H. Joyner

Works Managers

CALIFORNIA
 San Francisco—Pioneer Wks., P. O. Box 791
 C. L. Kenny
 Philadelphia—Nephi Works....E. F. Dunn

Distributors

ALABAMA
 Birmingham....Geo. S. Thomson Co.
ARIZONA
 Phoenix....Munnell & Sherrill of California
CALIFORNIA
 Anaheim....Brown-Bevis-Industrial Supply Co.
 Fresno....Bearing Supply Co.
 Los Angeles....Brown-Bevis-Industrial Supply Co.
 Los Angeles....Cook Bros. Construction Machinery Co.
 Los Angeles....Garlinghouse-Fremont Co.
 Oakland....Viking Supply Co.
 Riverside....Brown-Bevis-Industrial Equipment Co.
 Sacramento....Capital Rubber Products
 San Francisco....Goodale Manufacturing Co.
 San Diego....Winn Supply Co.
 San Francisco....Industrial Hose Supply
 Stockton....Guntert & Zimmerman
 Ukiah....Munnell & Sherrill of California
 Watsonville....Goodale Manufacturing Co.
COLORADO
 Denver....Western Belting Co., Inc.
HAWAII
 Honolulu....American Factors, Ltd.
IDAHO
 Boise....Intermountain Equipment Co.
ILLINOIS
 Chicago....Intermountain Equipment Co.
INDIANA
 Indianapolis....Bernie Spencer Ind. Sales & Service
NEW MEXICO
 Albuquerque....Geo. S. Thomson Co.
OREGON
 Eugene, Portland and Roseburg....Munnell & Sherrill, Inc.
WASHINGTON
 Seattle....International Sales Co.
 Spokane....Intermountain Equipment Co.
 Yakima....Dodge Yakima Supply Co.

PORTO PUMP, INC.

19735 Ralston Avenue
 Detroit 3, Michigan

PRODUCTS: The Porto Pump—a rotary rubber gear portable pressure pump used for pressure testing water mains, fire sprinkler installations, core and exploratory drilling operations, fire fighting operations and various other applications requiring a portable pressure pump.

Distributor

MONTANA
 Butte....Pioneer Equipment & Supply Co.

POWER CURBERS, INC.

P. O. Box 1465
 Salisbury, North Carolina

PRODUCTS: Stephens-Canfield Automatic Curber; Smith-Field Automatic Curb and Gutter Machine.

Factory Representative

CALIFORNIA
 Hayward, 1430 North Lane....Don J. Mattos
 (Continued in next column)

Power Curbers, Inc. (Cont'd)

Distributors

ALASKA
 Anchorage....The Al Johnson Equipment Co.
ARIZONA
 Phoenix....Equipment Sales Company
CALIFORNIA
 San Francisco....The Rix Company
COLORADO
 Denver....Accessory Supply Co.
IDAHO
 Boise....G-K Machinery Company
MONTANA
 Billings....Hall-Perry Machinery Company
WASHINGTON
 Seattle....Hatten Machinery Company

PRECO, INC.

6300 E. Slauson Avenue
 Los Angeles 22, California

PRODUCTS: Back-Rippers; Automatic Blade Controls for motor graders.

Area Managers

CALIFORNIA
 Los Angeles, 6300 E. Slauson Ave....C. R. Pierce

Distributors

All Caterpillar Dealers

THE PRIME-MOVER CO.

Highway 22 East
 Muscatine, Iowa

PRODUCTS: Model M-15B Prime-Mover; Powered Wheelbarrow Type Dump Hopper of 10 cu. ft. capacity; 50-Inch Steel Grader Blade Attachment, gasoline-powered, gear driven, takes ¾ ton load; Model 30 Prime-Mover with hydraulic torque converter drive, 18 cu. ft. capacity, hauls 1½ ton load.

Factory Representative

WASHINGTON
 Bellevue, 8733 4th Pl. N.E....James A. Dougan

Distributors

ALASKA
 (Seattle)....Northern Commercial Co.
ARIZONA
 Phoenix....Equipment Sales Co.
CALIFORNIA
 Los Angeles....Essick Machinery Co.
 Oakland....C. P. Concrete Equipment Co.
COLORADO
 Denver....King & East Machinery Corp.
HAWAII
 Honolulu....Electric Steel Foundry Co.
IDAHO
 Boise....The Sawtooth 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 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....Cox Machinery Co.
 Spokane....Safway Scaffold, Inc.
WYOMING
 (Salt Lake)....Rocky Mountain Machinery Co.

"QUICK-WAY" TRUCK SHOVEL CO.

2401 E. 40th Avenue, Box 1800
 Denver, Colorado

PRODUCTS: Truck Mounted Cranes and Shovels and Attachments.

District Representative

WASHINGTON
 Spokane....Reuel Hanks

Distributors

ARIZONA
 Phoenix....Equipment Sales Co.
CALIFORNIA
 Fresno....Edward R. Bacon Co.
 Oakland....Edward R. Bacon Co.
 Sacramento....Edward R. Bacon Co.
 San Francisco....Edward R. Bacon Co.
 (Continued in next column)

"Quick-Way" Truck Shovel Co.

(Cont'd)

COLORADO
 Denver....H. W. Moore Equipment Co.
 Durango....H. W. Moore Equipment Co., Inc.
 Grand Junction....H. W. Moore Equipment Co.
IDAHO
 Boise....Arnold Machinery Co., Inc.
 Idaho Falls....Arnold Machinery Co., Inc.
MONTANA
 Billings....Montana Powder & Equipment Co.
 Helena....Montana Powder & Equipment Co.
NEW MEXICO
 Albuquerque....J. D. Coggins Co.
 Farmington....J. D. Coggins Co.
UTAH
 Salt Lake City....Arnold Machinery Co.
WYOMING
 Casper....Keremi Tractor & Equipment Co.
 Cheyenne....Keremi Tractor & Equipment Co.

QUINCY COMPRESSOR CO.

217 Maine Street
 Quincy, Illinois

PRODUCTS: Air Compressors and Vacuum Pumps.

West Coast Distributor

CALIFORNIA
 San Francisco, 18th & Bryant Sts....Bernard Katz

Dealers

ARIZONA
 Phoenix....Western Machinery Co.
CALIFORNIA
 Fresno....Edward R. Bacon Co.
 Los Angeles....Essick Manufacturing Co.
 Binks Manufacturing Co.
 Sharpe Manufacturing Co.
 Modesto....Benson & Zimmerman
 Redding....Rother Auto Parts
 Sacramento....Franklin Machinery Co.
 San Francisco....Edward R. Bacon Co.
 Binks Manufacturing Co.
 Coast Equipment Co.
COLORADO
 Denver....Agnew Compressor Co.
 Edward F. Taylor Machinery Co.
NEW MEXICO
 Albuquerque....Kohlhaas Tank & Equipment Co.
 Lively Equipment Co.
OREGON
 Portland....Clyde Equipment Co.
 Contractors Equipment Co.
 Equipment Service, Parts & Service
 Rogers Machinery Co.
UTAH
 Salt Lake City....Western Machinery Co.
WASHINGTON
 Seattle....Alaska Pacific Supply Co.
 Northwest Motor Parts & Mfg. Co.
 Olympic Supply Co.
 Rothweiler Co.
 Spokane....Salisbury Service Sta. Equip. Co., Inc.
 Western Machinery Co.

R.P.B. CORPORATION

2751 E. 11th Street
 Los Angeles 23, California

PRODUCTS: Rapid Pavement Breaker and Tamper Machines (pneumatic).

Distributors

CALIFORNIA
 Oakland....Pacific Trencher & Equipment Co.
NEW MEXICO
 Albuquerque....J. D. Coggins Co.
WASHINGTON
 Seattle....A. H. Cox & Co.

RACINE HYDRAULICS & MACHINERY, INC.

2000 Albert Street
 Racine, Wisconsin

PRODUCTS: Self-Contained Earth Compactors.

Distributors

ALASKA
 Anchorage....Craig Taylor Eqpt. Supply Co.
CALIFORNIA
 Los Angeles....Fornaciari Company
COLORADO
 Denver....C. A. Brown

C.I.T.'s Pay-As-You-Depreciate Plan provides long term financing for equipment purchases

RAMSET FASTENING SYSTEM
Winchester-Western Division
Olin Mathieson Chemical Corp.
289 Winchester Avenue
New Haven 4, Conn.

PRODUCTS: Powder-Actuated Tools; Fasteners and Powder Charges — Hammer-in Fastening Tools; Fasteners.

Factory Branch Offices

CALIFORNIA
 Los Angeles 22, 5016 E. Olympic Blvd.

Distributors

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

ARIZONA
 Mesa.....O'Malley Lumber Co.
 Phoenix.....Baker-Thomas Co.
 Entz-White Lumber Co.
 O'Malley Lumber Co.
 Thunderbird Sales Corp.

Safford.....Talley & Sons
 Tucson.....Industrial Tool & Supply
 Yuma.....Mohawk Wholesale & Supply Co.

CALIFORNIA
 Campbell.....Don Newcomb Tool Co.
 Downey.....Tooley Construction Supply Co.
 Eureka.....George C. Jacobs Co.
 Fresno.....Contractors Service Co.
 Los Angeles.....Andrey Company, Inc.
 Mine & Mill Machinery
 Zonne Industrial Tool Co.
 American Lumber Co.

Modesto.....Viking Supply Company
 Oakland.....Coast Tools
 Oxnard.....Capital Fasteners
 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.
 Stockton.....C. F. Mitchler Co.
 W. Compton.....Thieme Construction Supplies
 Whittier.....Anderson Equipment Co.

COLORADO
 Colorado Springs.....Colorado Springs Supply Co.
 Everett Lumber Co.
 Denver.....Central Electric Supply
 M. L. Foss, Inc.
 Graybar Electric Supply Co.
 Grinnell Company
 Landes, Zachary & Peterson
 Livran Electric
 Mine & Smelter Supply Co.
 Union Hardware Co.
 Union Supply Co.
 Grand Junction.....Pacific & Western Ind. Supply
 Mine & Oil Supply Co.
 Greeley.....Cowan Electric Co.
 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.
 Santa Fe Builders Supply Co.
 Carlsbad.....Carlsbad Supply Co.
 Santa Fe.....Santa Fe Builders Supply Co.

OREGON
 Baker.....Builders Supply Co.
 Coos Bay.....W. J. Conrad Lumber Company
 Eugene.....John Warren Hardware
 Grants Pass.....Rogue River Hardware
 Klamath Falls.....Swan Lake Moulding Co.
 Medford.....Hubbard Brothers, Inc.
 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.
 (Continued in next column)

Ramset Fastening System (Cont'd)

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

RANKIN MANUFACTURING CO.

616 South Marengo Street
Alhambra, California

PRODUCTS: Hardsurfacing Welding Rods.

District Managers

CALIFORNIA
 Alhambra, 616 S. Marengo St.....Sid Jordan

WASHINGTON
 Seattle, 3333-9th Ave., W.....Gene Rutt

Distributors

ALASKA
 Anchorage.....Western Tractor & Equipment Co.
 Fairbanks.....Western Tractor & Equipment Co.

ARIZONA
 Phoenix, Tucson and Yuma.....Dye Oxygen Co.

CALIFORNIA
 Fresno.....Sigler's
 Los Angeles.....Absco, Inc.
 Marysville.....Hust Brothers
 Modesto.....Welders Supply Service
 Stockton.....California Welding Supply

COLORADO
 Denver.....Foss, Inc.
 Grand Junction.....Plateau Equipment Supply Co.

HAWAII
 Honolulu.....Electric Steel Foundry
 Welding & Industrial Products, Ltd.

IDAHO
 Pocatello.....Paul Roberts

NEW MEXICO
 Albuquerque.....Lively Equipment Co.

OREGON
 Medford.....Cal-Ore Machinery Co.
 Portland.....Welders Supply Co.

UTAH
 Salt Lake City.....Foulger Equipment Co.

WASHINGTON
 Seattle.....Electric Steel Foundry Co.
 Spokane.....J. E. Haseltine & Co.
 Tacoma.....St. Paul & Tacoma Lumber

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; Pump-sets; Oil Fired Warm Air Furnace; 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.

ARIZONA
 Phoenix.....Copper State Tractor Co.
 Tucson.....F. Ronstadt Hardware Co.
 Yuma.....Caldwell Equipment Co.
 (Continued in next column)

The Ready Power Co. (Cont'd)

CALIFORNIA
 Fresno.....Allied Equipment
 Los Angeles.....Brown-Bevis Industrial Equip.
 Oakland.....Bay Cities Equipment,
 Sacramento.....Sacramento Valley Tractor
 San Diego.....Southern Equipment & Supply

COLORADO
 Denver.....Hahn Equipment
 Glenwood Springs.....Elliott Equipment
 Grand Junction.....Hallam-Boggs Truck & Imp.

IDAHO
 Boise.....Intermountain Equipment
 Pocatello.....Intermountain Equipment

MONTANA
 Billings.....Industrial Equipment
 Black Eagle.....Power Equipment
 Great Falls.....Power Equipment
 Kalispell.....Treasure State Equipment
 Missoula.....Treasure State Equipment

NEVADA
 Reno.....Nevada Equipment Service, I

NEW MEXICO
 Albuquerque.....J. D. Coggins
 Farmington.....J. D. Coggins

OREGON
 Albany, Central Point, Coquille, Eugene, Na
 port, Portland and Roseburg
 Howard-Cooper Co.

WASHINGTON
 Seattle.....Fremont Electric
 The Carrington
 Howard-Cooper Co.

Spokane.....Intermountain Equipment
WYOMING
 Casper.....Keremi Tractor & Equipment
 Cheyenne.....Keremi Tractor & Equipment

RELANCE TRAILER & TRUCK CO.

INC.
2765-16th Street
San Francisco 3, California

PRODUCTS: Trailers; Trailer Bodies and Truck Bodies.

Distributors

CALIFORNIA
 Los Angeles.....Conestoga Equipment Co.
 Malaga.....Auto Transport Mfg. Co.
 Sacramento.....Reliance Trailer Sales Co.
 Santa Rosa.....Redwood Reliance Sales Co.
 Stockton.....Reliance Trailer Equipment Co.

HAWAII
 Honolulu.....Grace Bros., L

UTAH
 Salt Lake City.....Pearce Equipment & Steel

REMINGTON ARMS CO., INC.

939 Barnum Avenue
Bridgeport 2, Connecticut

PRODUCTS: Portable Power Tools and Accessories; Construction and Industrial Tools and Accessories; Industrial Guns; Complete Line of Firearms, Ammunition, Traps and Traps.

Factory Branches

CALIFORNIA
 San Francisco, 2735 San Pablo.....D. L. Bre
 (Berkeley)

UTAH
 Salt Lake City, 909 Walker Bk. Bldg.
 O. W. Carlson,

Representatives

CALIFORNIA
 Granada Hills, 16356 Tulsa St.....G. H. Eil
 San Francisco, 124 Juan Bautista Circle
 E. J. Con

COLORADO
 Denver, 1554 S. Ivy St.....J. Kapow

OREGON
 West Linn, 5983 W. A St.....J. B. Ben

Distributors in all principal cities

REMINGTON ARMS CO., INC.

2500 S. Western Avenue
Park Forest, Illinois

PRODUCTS: Gasoline, Electric and Air Power Concrete Vibrators; Power Trowels; Electric and Air Powered Drills; Impact Wrenches; Circular Saws; Sanders; Grinders; Scroll Drivers; Terrazzo Grinders; Gasoline, and Electric Chain Saws; Gasoline Power Earth Borer.
 (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

ington Arms Co., Inc. (Cont'd)
Factory Branch Managers

ORNIA
aley, 2735 San Pablo Ave... W. E. Langhorst
Lake City,
9 Walker Bk. Bldg... O. W. Carlson, Jr.

ORNIA
Regional Manager
aley, 2735 San Pablo Ave... D. Lee Braun

Assistant District Managers
ANA
gs, 1041 Avenue "C"... E. S. Larson
ON
land, 7780 S.W. Montclair Dr... D. N. Weimer
Field Representatives

NA
enix, 2233 N. 37th Pl... M. S. Crabtree
RADO
ver, 891 Cherry St., Apt. 27... A. L. Garrett
ver, 1554 S. Ivy St... J. Kapowich

Lake City,
589 Wilmington Ave... Leo H. Neiberger
INGTON
evue, 1008 - 111th St., N.E... J. A. Follitt

Distributors

HA
enix... Waco Scaffolding & Equipment Co.
ORNIA
Angeles... Cal-Western Wholesale Co.

RADO
ver... Al Plonkey & Assoc., Inc.
to Falls, Southern Idaho Equipment Co., Inc.

ANA
e... Montana Hardware Co.
DA
o... Wholesale Building Materials Co.

MEXICO
buquerque... The Cornelius Co.
ON
erprise... Hahn Machine & Supply Co.

en
INGTON... George A. Lowe Co.
tle
MING... Cascade Machinery Co.

arton
Wingert Electric Co.

DIVISION
HE WHITE MOTOR CO.
331 South Washington Avenue
ansing 20, Michigan

UCTS: Gas Engines; Diesels and Trucks.
Factory Sales Offices

ORNIA
Angeles, 400 E. Washington Blvd.
ON
tland, 2705 N.W. Nicolai St... H. D. Collins

Distributors

KA
chorage... Northland Sales, Inc.
DNA
enix... Cook Bros. Equipment Sales

ORNIA
Angeles... Cook Bros. Equipment Co.
kland
... Cook Bros. Equipment Co.

RADO
nver... Rocky Mountain Reo Co.
IO
ise... Hopper Motor Co., Inc.

MEXICO
buquerque... Leonard Motor Co., Inc.
vington
... Keeth Gas Co., Inc.

SON
gens... Gunderson Bros. Engineering Corp.
dford... Witham Parts & Equipment Co.

it Lake City
... Reo McMurdie Co., Inc.
INGTON
attle... Reo Washington Sales Co.

PUBLIC STEEL CORP.
Truscon Division
Youngstown 1, Ohio

DUCTS: Steel and Aluminum Windows (all types); Residential Interior Steel Doors; Hollow Metal Doors; Industrial Steel Doors; Metal Lath Products and Accessories; Steel Joists; Steeldock Roofs; Complete Steel Buildings; Concrete Reinforcing Bars; Welded Wire Fabric.

(Continued in next column)

Republic Steel Corp. (Cont'd)
Western Offices

ARIZONA
Phoenix, 2457 W. Jackson St., P.O. Box 6322
R. A. Johnson

CALIFORNIA
Los Angeles, 5424 Slauson Ave... N. L. Field
San Francisco, 344 Sales Mart Bldg.

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;
(Continued in next column)
Masonry Cutters.

District Representatives

ARIZONA
Phoenix, 2866 Grand Ave... Ken Shaffer
OREGON
Portland, 7204 S.E. 35th Ave... K. T. Mangels

UTAH
Ogden, 1271 - 26th St... L. J. Evers

Distributors

ALASKA
Anchorage... Northern Supply Co.
ARIZONA
Phoenix... Wm. Johnson Supply Co.

Tucson
Superior Equipment Co.
CALIFORNIA
Tucson... Superior Equipment Co.

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.
COLORADO
Denver... Dobbs G. M. Diesel

IDAHO
Kellogg... Equipment Sales Co.
MONTANA
Billings... Great Northern Tool & Supply Co.

Butte
Pioneer Equipment & Supply Co.
NEW MEXICO
Albuquerque... Equipment Rental & Sales Co.

Farmington
Justis Supply Co.
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.

RICHARDSON HOMES CORP.
By-Pass 112
Elkhart, Indiana

PRODUCTS: Mobile Homes for heavy construction sites; Semi-Permanent Housing of all types.

Distributors

ARIZONA
Mesa... Don Miller Mobile Homes
COLORADO
Aurora... Allied Trailer Sales

MONTANA
Helena... Commission Sales Co.
NEVADA
Carson City... C & K Trailer Sales

Las Vegas
Yucca Terrace Trailer Sales
NEW MEXICO
Albuquerque... Reger Mobile Homes, Inc.

UTAH
Salt Lake City... Aetna Trailer Sales

RICHMOND SCREW ANCHOR CO., INC.
816-838 Liberty Avenue
Brooklyn 8, New York

PRODUCTS: Engineered Tying Devices; Anchorages and Accessories for Concrete Construction.

(Continued in next column)

Richmond Screw Anchor Co., Inc. (Cont'd)

Southwestern Regional Manager
CALIFORNIA
San Marino, 1750 San Marino Ave... Geo. E. Tupper

Distributors

ARIZONA
Phoenix... Equipment Sales Co.
CALIFORNIA
Fresno... Healey & Popovich

Los Angeles, Oakland,
Sacramento, San Bernardino,
San Diego & San Francisco... W. J. Burke & Co.

COLORADO
Denver... Booth-Rouse Equipment Co.
Grand Junction... Independent Lumber 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... Intermtn. Concrete Specialties

WASHINGTON
Seattle... W. J. Burke & Co.
WYOMING
Casper... Casper Concrete Co.

RIVERSIDE CEMENT CO.
621 South Hope Street
Los Angeles 17, California

PRODUCTS: Portland Cement — Types I, II, III; Plastic; Plastic Gun.

Western Plant Managers

CALIFORNIA
Oro Grande, P.O. Box L... J. M. Sauer
Riverside, Crestmore Plant,
P.O. Box 832... S. E. Poulter

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.

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; Sand-piper Dredges; Tree Saws; Backripper Teeth; Sand Washing Plants.

Distributors

ROCKLAND Products are sold through 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. Holsington
(Continued on next page)

C.I.T.'s Engineered Finance Plans fit the needs of contractors and distributors

Rodgers Hydraulic, Inc. (Cont'd)**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 DIV.

The Colorado Fuel & Iron 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; Tramways; Suspension Systems of all types.

Factory Branches

CALIFORNIA	
Los Angeles, Manager	J. C. Barney
San Francisco, Manager	G. C. Bukowsky
COLORADO	
Denver, Manager	G. P. Hays
WASHINGTON	
Seattle, Manager	E. A. Frazier

ROGERS BROTHERS CORP.

Orchard Street
Albion, Pennsylvania

PRODUCTS: Low Bed Heavy Duty Trailers; High Flat Trailers.

Distributors

CALIFORNIA	
San Francisco	Coast Equipment Co., Inc.
IDAHO	
Boise	Intermountain Equipment Co.
MONTANA	
Billings	Montana Trailer Sales & Equip. Co.
Great Falls	Power Equipment Co.
Missoula	Miller Machinery Co.
NEW MEXICO	
Albuquerque	Western Machinery Co.
WASHINGTON	
Spokane	Intermountain Equipment Co.

E. A. ROGERS CO.

East Bennett Street
P. O. Box 1016
Grass Valley, California

PRODUCTS: Dozer Rippers; Asphalt Cutters; Blade Scarifiers.

Dealers in all 11 Western states and Alaska

ROLCOR DIVISION

Rosco Manufacturing Co.
3118 Snelling Avenue South
Minneapolis 6, Minnesota

PRODUCTS: Bituminous Distributors; Bituminous Maintenance Units; Road Sweepers; Bituminous Haul Tanks; Street Cleaners; Street Flushers; Water Sprinklers for soil stabilization; Asphalt Kettles; Burners; Road Rollers, pneumatic and steel wheel.

Distributors

ALASKA	
(Seattle)	The Carrington Co.
ARIZONA	
Phoenix	Southwest Equipment Co.
CALIFORNIA	
El Cajon	Kroeger Equipment Co.
Los Angeles	Santa Fe Equipment Co.
San Francisco	Edward R. Bacon Co.

(Continued in next column)

Rolcor Division (Cont'd)**COLORADO**

Denver	Western Machinery Co.
HAWAII	
Honolulu	Hawaiian Equipment Co.
IDAHO	
Boise	G-K Machinery Co.
MONTANA	
Billings	Industrial Equipment Co.
NEVADA	
Reno	Sierra Machinery Co.
NEW MEXICO	
Albuquerque	The Cornelius Co.
OREGON	
Portland	Air-Mac, Inc. of Oregon
UTAH	
Salt Lake City	Rocky Mountain Machinery Co.
WASHINGTON	
Seattle	A. H. Cox & Co.
Spokane	Modern Machinery Co.
WYOMING	
Casper	Studer Tractor & Equipment Co.

RONNINGEN-PETTER CO.

2700 East YZ Street
Vicksburg 1, Michigan

PRODUCTS: Liquid Filters; Pipe Line Strainers.

Representatives

CALIFORNIA	
San Francisco, 50 Hawthorne St.	C. T. White Co.
WASHINGTON	
Seattle, Central Bldg.	Fairman B. Lee Co.

ROSCO MANUFACTURING CO.

3118 Snelling Avenue South
Minneapolis 6, Minnesota

PRODUCTS: Bituminous Distributors; Bituminous Maintenance Units; Road Sweepers; Bituminous Haul Tanks; Street Cleaners; Street Flushers; Water Sprinklers for soil stabilization; Asphalt Kettles; Burners; Road Rollers, pneumatic and steel wheel.

Distributors

ALASKA	
(Seattle)	A. H. Cox & Co.
ARIZONA	
Phoenix	Equipment Sales Co.
CALIFORNIA	
Los Angeles	Larson Equipment Co.
Santa Rosa	Stevenson Equipment Co., Inc.
COLORADO	
Denver	H. W. Moore Equipment Co.
HAWAII	
Honolulu	Hawaiian 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 Cornelius Co.
OREGON	
Portland	Air-Mac, Inc. of Oregon
UTAH	
Salt Lake City	Rocky Mountain Machinery Co.
WASHINGTON	
Seattle	A. H. Cox & Co.
Spokane	Modern Machinery Co.
WYOMING	
Casper	Studer Tractor & Equipment Co.

ROWE MANUFACTURING CO.

614 West Third Street
Galesburg, Illinois

PRODUCTS: Ro-Way Overhead Doors, both wood and steel; Electric Operators.

Western District Sales Manager

ILLINOIS	
Galesburg, c/o Rowe Mfg. Co.	Eugene Harlan
(Colo., Ida., Mont., Utah, Wyo.)	

Distributors

ARIZONA	
Phoenix	Baker-Thomas Lime & Cement
	Clarence R. Yeager
COLORADO	
Colorado Springs	Ro-Way Overhead Door Co.
Denver	Colorado Builders Supply Co.
	Leever-Post Co., Inc.

(Continued in next column)

Rowe Manufacturing Co. (Cont'd)**IDAHO**

Boise	Al
MONTANA	
Billings	Duke & E
Butte	Archie W. Ac
Havre	Treasure State Supply
NEW MEXICO	
Albuquerque	Cobusco Steel Prod
	Warren M. Rose Door
Artesia	Jay F. Vandev
UTAH	
Salt Lake City	Al

JOSEPH A. RYERSON & SON, INC.

PRODUCTS: Reinforcing Steel; Post-Tensioning Tendons for prestressed concrete (including design and installation supervision); Wire Mesh; Open-Web Steel Joists; Structural Steel; Structural Tubing; Steel Grating; Stair Treads; Aluminum Building Products; PVC Plastic.

Western Service Centers

CALIFORNIA	
Los Angeles, 4310 E. Bandini Blvd.	Emeryville, 65th and Hollis Sts.
COLORADO	
Denver (Sales Office) 4150 Fox St.	
WASHINGTON	
Seattle, 1200 - 4th Ave. So.	
Spokane, North 207 Freya St.	

S & M MANUFACTURING CO., INC.

2901 West Mill Road
Milwaukee 9, Wisconsin

PRODUCTS: The Agitor—truck agitator.

Factory Representative

CALIFORNIA	
Carmel, Box 1258	Tony J. H

SAFWAY STEEL PRODUCTS, INC.

6228 West State Street
Milwaukee 13, Wisconsin

PRODUCTS: Tubular Steel Scaffolding; Suspended Scaffolding.

Factory Branch Managers

CALIFORNIA	
Los Angeles, 5875 Rodeo Road	G. R. Mar
San Francisco, 1095 Shafter	D. P. Cl

Distributors

ARIZONA	
Phoenix	Baker-Thomas
COLORADO	
Denver	Safway Steel Scaffolds of Col
MONTANA	
Billings	Rental Equipment
Butte	Construction Materials
NEW MEXICO	
Albuquerque	Safway Steel Scaffolds Co
	New Me
OREGON	
Portland	Safway Scaffolds
UTAH	
Salt Lake City	Lynn Hansen Construction
WASHINGTON	
Spokane	Safway Scaffolds

THE SALEM TOOL CO.

767 South Ellsworth Avenue
Salem, Ohio

PRODUCTS: Ladles, Kettles and Skimmers; Drills; Trench Type Utility Drills; Mounted and Self-Propelled Horizontal Drills; Vertical 6" and 8" Drills; Mineral Recovery Drills.

Distributors

ALASKA	
(Seattle)	The Carrington
ARIZONA	
Phoenix	Western Machinery
CALIFORNIA	
City of Industry	Smith Booth Usher
San Francisco	Edward R. Bacon
COLORADO	
Denver	Union Supply

(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

Salem Tool Co. (Cont'd)

Intermountain Equipment Co.
Hall-Perry Machinery Co.
Sierra Machinery Co.
Carlsbad Supply Co.
Clyde Equipment Co.
Western Machinery Co.
The Carrington Co.
Clyde Equipment Co.
Intermountain Equipment Co.

MYER'S EQUIPMENT CO.

18 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

Anderson-O'Brien Co.

VIKENS JERNVERKS, A. B.
Sandviken, Sweden

PRODUCTS: Integral Drill Steels; Tungsten-Carbide Detachable Rock Bits; Extension Drill Steels.

Technical Representative

Lars deJounge

Distributors

Atlas Copco Pacific, Inc.
Atlas Copco Pacific, Inc.
Atlas Copco Pacific, Inc.
Atlas Copco Pacific, Inc.
Atlas Copco Pacific, Inc.

N JOSE STEEL CO., INC.

195 North 30th Street
San Jose 27, California

PRODUCTS: Structural Steel, Reinforcing Steel; Steel Buildings; Chain Link Fence.

Factory Branch Manager

F. A. (Avery) Klinger, Jr.

STORM MANUFACTURING CO.

1801 Santa Clara at H Street
P.O. Box 1173
Fresno 15, California

PRODUCTS: Pressure Type Blast Cleaning Equipment and Accessories.

Distributors

Northern Commercial Co.
Western Machinery Co.
Smith Booth Usher Co.
Garlinghouse-Fremont & Co.
Edward R. Bacon Co.
Edward R. Bacon Co.
Kenton Equipment Co.
Edward R. Bacon Co.
Coast Equipment Co.
Guntert & Zimmerman Sales Div., Inc.
Western Machinery Co.
Edw. R. Bacon Co. of Hawaii, Ltd.

(Continued in next column)

Sanstorm Manufacturing Co. (Cont'd)

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
The 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
City of Industry Smith Booth Usher Co.
San Francisco 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); Tamperers.

District Managers

CALIFORNIA
Cherry Valley, Route #1, Box 642
John C. Carlile
WASHINGTON
Spokane, P.O. Box 849 R. A. Otterness
2316 Manito Blvd.

Distributors

ALASKA
Anchorage Yukon Equipment, Inc.
Fairbanks Yukon Equipment, Inc.
(Seattle) Yukon Equipment, Inc.
ARIZONA
Phoenix Western Machinery Co.
Tucson Western Machinery Co.
CALIFORNIA
City of Industry Smith Booth Usher Co.
Eureka Trinity Tractor Co.
Fresno Contractors Equipment & Supply Co.
Redding Shasta Truck & Equipment Sales
San Diego Southern Equipment & Supply Co.
Stockton Action Equipment Co.
COLORADO
Denver Power Equipment Company
Grand Junction Power Equipment Company
IDAHO
Boise 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 The Cornelius Co.
Farmington The 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.

(Continued in next column)

Schild Bantam Co. (Cont'd)

WYOMING
Casper Studer Tractor & Equipment Co.

SCHRAMM, INC.

Virginia and Garfield Avenues
West Chester, Pennsylvania

PRODUCTS: Air Compressors; Pneumatractors; Road-drills; Boosters; Sump Pumps, Tools.

Factory Branch

CALIFORNIA
Los Angeles, 846 E. 6th St.
District Representative
CALIFORNIA
Oakland, 16th and Jefferson Sts. Ray G. Nurick
Distributors

ARIZONA
Phoenix Neil B. McGinnis Co.
CALIFORNIA
El Cajon Kroeger Equipment Co.
Huntington Park P & B Equipment Co.
Los Angeles Martin Supply Co.
Morrissey Equipment Co.
Richter Engineering Co.
Oakland Blakemore Equipment Co.
Salinas Farmers Mercantile Co.
San Francisco The Kean Co.
Santa Barbara Milpas Rental Service
Stratford Orton's Equipment Co., Inc.
COLORADO
Aurora Well Completions, Inc.
Denver Dewco Equipment & Supply Co.
Industrial Supply Co.
Wheat Ridge The Diehl Co.
IDAHO
Boise Engineering Sales & Service, Inc.
MONTANA
Billings Montana Powder & Equipment Co.
Helena Montana Powder & Equipment Co.
OREGON
Portland Hamilton Engine Sales, Inc.
UTAH
Midvale Utah Bit & Steel Co.
WASHINGTON
Seattle C. T. Takashi & Co., Inc.
Tool Crib Sales, Inc.
Spokane General Machinery Co.

SCREEN EQUIPMENT CO., INC.

40 Anderson Road
Buffalo 25, New York

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.

305 North 25th Street
Milwaukee 1, Wisconsin

PRODUCTS: Pulvi-Mixer; Trav-L-Plant; Pneumatic Compactors; Steel Rollers; Pulvi-Breaker; Material Spreaders; Vibro-Joint Cutters.

District Managers

ARIZONA
Mesa-508 No. Robson St. George Blewer
CALIFORNIA
Menlo Park-990 San Mateo Dr.
William J. Warner

Distributors

CALIFORNIA
Stockton Machinery Supply, Inc.
COLORADO
Denver Liberty Trucks & Parts Co.

(Continued on next page)

C.I.T. Loans on Equipment Fleets increase contractors working capital funds

Seaman-Andwall Corp. (Cont'd)

IDAHO	Idaho Falls	Western Machinery Co.
MONTANA	Billings	Industrial Equipment Co.
	Great Falls	Normont Equipment Co.
	Kalispell	Treasure State Equipment Co.
	Missoula	Treasure State Equipment Co.
NEVADA	Reno	The Roeder 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-Pactors, 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. N.E. James A. Dougan

Distributors—Duo-Products Division

ARIZONA	
Phoenix.....	O. S. Stapley Co.
Branches at Buckeye, Casa Grande, Chandler, Coolidge, Glendale, Mesa.	

CALIFORNIA	Escondido	Southern Equipment & Supply Co.
	Los Angeles	Santa Fe Equipment Co.
	Sacramento	Western Traction Co.
	San Diego	Southern Equipment & Supply Co.
	San Francisco	Western Traction Co.

COLORADO	Denver	Booth-Rouse Equipment Co.
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HAWAII	Hilo	A. F. Stubenberg Co.
	Honolulu	Hawaiian Equipment Co., Ltd.
	Kahului, Maui	Maui Equipment Co.
	Lihue, Kauai	Hawaiian Equipment Co., Ltd.

IDAHO	Boise	Lang Construction Equipment Co.
	Idaho Falls	Lang Construction Equipment Co.

MONTANA	Billings	Miller Machinery Co.
	Great Falls	Miller Machinery Co.
	Missoula	Miller Machinery Co.

OREGON	Portland	Guthrie Machinery Co.
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UTAH	Salt Lake City	Lang Construction Equipment Co.
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WASHINGTON	Seattle	Hatten Machinery Co.
	Spokane	Modern Machinery Co., Inc.

Distributors—Gunnison Division

ARIZONA	Phoenix	O. S. Stapley Co.
CALIFORNIA	Escondido	Southern Equipment & Sales
	Sacramento	Western Traction Co.
	San Diego	Southern Equipment & Sales
	San Francisco	Western Traction Co.

HAWAII	Hilo	A. F. Stubenberg Co.
	Honolulu	Hawaiian Equipment Co., Ltd.
	Kahului, Maui	Maui Equipment Co.
	Lihue, Kauai	Hawaiian Equipment Co., Ltd.

IDAHO	Boise	Lang Construction Equipment Co.
	Idaho Falls	Lang Construction Equipment Co.

MONTANA	Billings	Miller Machinery Co.
	Great Falls	Miller Machinery Co.
	Missoula	Miller Machinery Co.

NEVADA	(Salt Lake)	Lang Construction Equipment Co.
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NEW MEXICO	Albuquerque	N. C. Ribble Co.
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UTAH	Salt Lake City	Lang Construction Equipment Co.
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WASHINGTON	Seattle	Sahlberg Equipment Co., Inc.
	Spokane	Ferris Equipment Co.

WYOMING	Casper	Moss Equipment & Supply Co.
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SELMA TRAILER & MANUFACTURING CO.
 P.O. Box 120

Selma, California

PRODUCTS: Hydraulic Tilt Trailers and General Purpose Trailers.

Distributors

ARIZONA	Phoenix	Schramm Specialties
CALIFORNIA	S. Pasadena	Blair-Martin Co.
	San Francisco	Edward R. Bacon Co.

SHAWNEE MANUFACTURING CO., INC.

Department of The Parsons Division
 Koehring Company
 1947 North Topeka Avenue
 Topeka, Kansas

PRODUCTS: Front End Loaders; Backhoes; Rear Blades; 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.
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UTAH	Salt Lake City	Western Machinery Co.
	(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; Front End Loader; Reversing Transmission; Soil Working Tools.

Western Regional Zone Managers

CALIFORNIA	Los Angeles	W. W. Wigle
	San Francisco	J. G. Fisk

Distributors

ALASKA	(Portland)	Columbia Tractor & Implement Co.
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ARIZONA	(Los Angeles)	Hight-Thompson, Inc.
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CALIFORNIA (NORTH)	Richmond	Pacific Tractor & Implement Co.
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CALIFORNIA (SOUTH)	Los Angeles	Hight-Thompson, Inc.
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COLORADO	Denver	McCarty-Sherman Distributing Co.
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IDAHO	(Salt Lake City)	Intermountain Ford Tractor Co.
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MONTANA	Billings	Columbia Tractor & Implement Co.
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NEVADA	(Los Angeles)	Hight-Thompson, Inc.
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NEW MEXICO	(Denver)	McCarty-Sherman Distributing Co.
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OREGON	Portland	Columbia Tractor & Implement Co.
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UTAH	Salt Lake City	Intermountain Ford Tractor Co.
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WASHINGTON	(Portland)	Columbia Tractor & Implement Co.
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WYOMING	(Denver)	McCarty-Sherman Distributing Co.
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SHOVEL SUPPLY CO., INC.
 4900 Hines Blvd.
 Dallas 21, Texas

PRODUCTS: Sheepfoot and Tamping Rollers; Pneumatic Rollers; towed and self-propelled; Steel Wheel Rollers, portable and tandem; Vibrating Rollers; Sub-Grade Planers; Multiple Pavement Vibrators; Grader Blades; Dozer and Scraper Blades; Drill Steel.

Western Representative

CALIFORNIA	Western representative
Bakersfield—P.O. Box 552	Edwin A. Henry
(Continued in next column)	

Shovel Supply Co., Inc. (Cont'd)
 Distributors

ARIZONA	Phoenix	Superior Equipment Co.,
CALIFORNIA	Los Angeles	Brown-Bevis Industrial Equipment Co., Larson Equipment
	Oakland	George M. Philpott Co.,
	Sacramento	George M. Philpott Co.,
	San Diego	Construction Machinery
	San Francisco	Coast Equipment
		George M. Philpott Co.,

COLORADO	Denver	Tudor Equipment
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IDAHO	Boise	Arnold Machinery
	Idaho Falls	Arnold Machinery
	(Spokane)	Feenaughty Machinery

MONTANA	Billings	Seltz Machinery Co.,
	Butte	Pioneer Equipment & Supply
	Great Falls	Central Machinery

NEVADA	Reno	Reno Equipment
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NEW MEXICO	Albuquerque	N. C. Ribble
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OREGON	Portland	Guthrie Machinery
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UTAH	Salt Lake City	Arnold Machinery
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WASHINGTON	Seattle	Feenaughty Machinery
	Spokane	Feenaughty Machinery

WYOMING	Casper	Moss Equipment & Supply
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SIERRA ENGINEERING CO., INC.
 307 Morrill Avenue
 Reno, Nevada

PRODUCTS: TowBatcher; TowSilo; TowV TurnClean Conveyor Pulleys; Special V ern Style Crushing Plants; Special Fabrications—designs, mills, etc.

Distributors

ARIZONA	Phoenix	Min-A-Con Equipment
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CALIFORNIA	San Francisco	The Rix Co.
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COLORADO	Denver	Colorado Builders Supply
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IDAHO	Boise	Intermountain Equipment
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MONTANA	Missoula	Hall-Perry Machinery
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UTAH	Salt Lake City	Western Machinery
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SIMPLEX FORMS SYSTEM, INC.
 5605 Industrial Avenue
 Rockford (Loves Park), Illinois

PRODUCTS: Concrete Forms; Tie Wires; Series.

Distributors

COLORADO	Englewood	Nyco
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WASHINGTON	Seattle	Nyco, Inc. of
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SIMPLICITY ENGINEERING CO.
 209 South Oak Street
 Durand, Michigan

PRODUCTS: Vibrating Screens; Grizzly Fe Scalpers; Simplic-Flo Two Bearing S Horizontal Screens; Oscillating Conve D'watering Wheels.

Sales Engineers

CALIFORNIA	Whittier—7719 Gerda Ct.	Richard A
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OREGON (WASHINGTON)	Salem—432 Garlock St.	Robert
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Distributors

ARIZONA	Phoenix	Arizona Equipment Sales
	Prescott	Arizona Mining Supply

CALIFORNIA	Los Angeles	Brown-Bevis Industrial Equipment
	San Francisco	Standard Machinery

COLORADO	Denver	Patten Engineering
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(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

Policy Engineering Co. (Cont'd)
 atelloRocky Mountain Machinery Co.
ANA
 ingsIndustrial Equipment Co.
 spellTreasure State Equipment Co.
 ouldaTreasure State Equipment Co.
 Lake CityRocky Mountain Machinery Co.

BIT STEEL & IRON WORKS
Pedro-Woolley, Washington

DUCTS: Hand, Gasoline, Diesel and Electric
 Hoists; Cranes; Derricks; Draglines; Winches
 and Windlasses.

ON
 eneSkagit, Inc. of Oregon

ONA
 enixState Tractor & Equipment Co.

ORNIA
 co.Sierra Tractor & Equipment Co.
 eka.Brizard-Matthews Machinery Co.
 y of Industry.....Smith Booth Usher
 pa.Berglund Tractor & Equipment Co.
 enardWallace Machinery Co.
 dding.....Sierra Tractor & Equipment Co.
 ta Rosa.....Berglund Tractor & Equipment Co.
 illitsBerglund Tractor & Equipment Co.

ORADO
 nverWestern Machinery Co.
 and Junction.....S & M Supply Co.
 Western Machinery Co.

TANA
 ingsSeltz Machinery Co.

ADA
 noSierra Machinery Co.

MEXICO
 buquerqueR. L. Harrison Co., Inc.

ON
 toriaHalton Tractor Co.
 quillePape Bros., Inc.
 enePape Bros., Inc.
 ants Pass.....Cascade Industrial Supply, Inc.
 amath Falls.....Cascade Industrial Supply, Inc.
 GrandeInland Machinery Co.
 rtland.....Halton Tractor Co.
 eburgPape Bros., Inc.
 lemHalton Tractor Co.

HINGTON
 ngviewHalton Tractor Co.
 attleNorthern Commercial Co. (& Alaska)
 Star Machinery Co.
 Washington Machinery Co.
 okaneInland Diesel & Machinery Co.
 enatcheeColumbia Tractor Co.

IL CORPORATION
5033 Elston Avenue
Chicago 30, Illinois

DUCTS: Portable Electric & Pneumatic Tools;
 Saws; Drills; Sanders; Planes; Drivers and
 Nut Runners; Grinders; Hammers; Shears.

Western Factory Branch Managers

ONA
 enix, 3123 E. McDowell Rd., Robert J. White
IFORNIA
 os Angeles, 2730 S. Broadway...Paul K. Jones
 n Francisco.....Herman H. Pflug
 285 S. Van Ness Ave.

ORADO
 nver, 4462 York St.....Joseph L. Small

ON
 rtland, 5616 NE Glisan St...Bart Macomber

SHINGTON
 attle, 818 John St.....Frank Umbarger
 okane, 2226 Riverside.....Robert B. Hackett

Contact nearest Skil Branch for information

SKOOKUM COMPANY, INC.
3504 North Crawford Street
Portland 3, Oregon

DUCTS: 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 require-
 ments; The Skookum Cold Flow Press.

Factory Personnel

ON
 rtland.....8504 N. Crawford
 L. Wernsing...Vice-Pres. and Sales Manager
 ward Wilson.....District Sales Representative
 ck Lyons.....District Sales Representative

SMITH ENGINEERING WORKS
532 East Capitol Drive
P.O. Box 723
Milwaukee 12, Wisconsin

PRODUCTS: Telsmith Gytratory Breakers; Jaw Crush-
 ers; Gyrsphere Crushers; Intercone Crush-
 ers; Roll Crushers; Pulsators; Vibro-King
 Screens; Heavy Duty Scalpers; Vibrating
 Grizzlies; Rotary Grizzlies; Hercules and
 Standard Rotary Screens; Super-Scrubbers;
 Screw Rewashers; Sand Classifiers; Sand
 Tanks; Sand Drags; Sand Dewatering and
 Classifying Tanks; Feeders; Apron Feeders;
 Elevators and Portable Crushing and
 Screening Plants.

District Managers
CALIFORNIA
 Los Angeles—1950 Santa Fe Ave. .R. G. Morton
OREGON
 Portland—1631 NW Thurman..Wm. P. McConnell

Distributors
ALASKA
 AnchorageBashaw Equipment Co.
ARIZONA
 PhoenixLee Redman Equipment Co.
CALIFORNIA
 Los AngelesEssick Machinery Co.
 San Francisco.....Mines Engineering & Eqpt. Co.
COLORADO
 DenverConstructors Equipment Co.
IDAHO
 BoiseThe Starline Equipment Co.
NEVADA
 (San Francisco) ..Mines Engineering & Eqpt. Co.
 (Salt Lake) ..Lang Construction Equipment Co.
MONTANA
 BillingsWestate Machinery Co.
 KalispellMountain Tractor Co.
 MissoulaMountain Tractor Co.
NEW MEXICO
 Albuquerque.....Contractors Eqpt. & Supply Co.
OREGON
 PortlandClyde Equipment Co.
UTAH
 Salt Lake City..Lang Construction Equipment Co.
WASHINGTON
 SeattleClyde Equipment Co.
 SpokaneGeneral Machinery Co.
WYOMING
 CasperStuder Tractor & Equipment Co.

GORDON SMITH & CO., INC.
528 College Street
Bowling Green, Kentucky

PRODUCTS: Portable and Stationary Air Compres-
 sors.

Factory Representative

COLORADO
 Denver, 4921 E. 38th Ave.....Fred A. Pease

Distributors
ARIZONA
 PhoenixArizona Cedar Rapids Co.
CALIFORNIA
 Los Angeles.....Mine & Mill Machinery Co.
 Santa Barbara.....Milpas Rental Service
COLORADO
 DenverJohn Steele Machinery Co.
 Pueblo.....Colorado Road Machinery Co.
IDAHO
 BoiseStarline Equipment Co.
NEVADA
 Las Vegas.....Inland Service & Supply Co.
NEW MEXICO
 Albuquerque.....The Cornelius Co.
 Farmington.....Cornelius Equipment Co.
OREGON
 Medford.....Cal-Ore Machinery Co.
UTAH
 Salt Lake City.....Lund Machinery Co.

S. MORGAN SMITH CO.
P.O. Box 712
York, Pennsylvania

PRODUCTS: Hydraulic Turbines; Rotovalves; 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
 (Continued in next column)

S. Morgan Smith Co. (Cont'd)
WASHINGTON
 Bellevue, 9861 N.E. 16th St.

Sales Representatives
ARIZONA
 PhoenixSteel & Engr. Products Co.
CALIFORNIA
 Los AngelesW. J. Beckett Co.
 San Francisco.....Trident Engineering Co.
COLORADO
 DenverHarry 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.

THE T. L. SMITH CO.
2835 North 32nd Street
Milwaukee 1, Wisconsin

PRODUCTS: Tilting Concrete Mixers; Truck Mixers
 and Agitators; Turbine Type Mixers.

District Sales Representative
OREGON
 Portland—2516 SE 77thGeorge Whitman

District Service Representative
CALIFORNIA
 Oxnard—205 E. Poplar St.Harold Rataczak

Distributors
ARIZONA
 PhoenixEquipment Sales Co.
CALIFORNIA
 Los AngelesEssick Manufacturing Co.
 OaklandThe Brose Co.
COLORADO
 DenverFincham Equipment Co.
MONTANA
 HelenaMontana Powder & Equipment Co.
OREGON
 PortlandClyde Equipment Co.
UTAH
 Salt Lake City.....Lund Machinery Co.
WASHINGTON
 SeattleClyde Machinery Co.
WYOMING
 CheyenneWilson Equipment Co.

SOILTEST, INC.
4711 West North Avenue
Chicago 39, Illinois

PRODUCTS: Testing Equipment—Soil, Concrete and
 Asphalt Field and Laboratory Test Ap-
 paratus.

Distributors
ALASKA
 AnchorageCaliber Equipment Supply
CALIFORNIA
 Los AngelesPacific Scientific Co.
 San FranciscoPacific Scientific Co.
OREGON
 PortlandPacific Scientific Co.
WASHINGTON
 SeattlePacific Scientific Co.

SONOCO PRODUCTS CO.
Construction Products Division
Hartsville, South Carolina

PRODUCTS: SONOTUBES—Fibre forms for circular
 concrete members.
 SONOVOID—Fibre tubes for creating voids
 in concrete members.
 SONOAIRODUCT—Fibre forms for heating
 ducts.

Factory Branches
CALIFORNIA
 La Puente—166 N. Baldwin Park Blvd.
 J. D. WaffordResident Sales Manager
 F. H. CrouchProduction Manager
 W. J. MattesonSales Engineer
 Fremont—3490 Union St., Irvington District
 G. T. RobertsSales Manager
 M. F. HughesProduction Manager
 Eugene SchneiderSales Engineer
 (Continued on next page)

**C.I.T.'s Pay-As-You-Depreciate Plan provides long term
 financing for equipment purchases**

Sonoco Products Co. (Cont'd)

Distributors—Sonotubes & Sonovoid

ALASKA	
(Los Angeles)	Sonoco Products Co.
ARIZONA	
Phoenix	Superior Equipment Co., Inc.
CALIFORNIA	
Los Angeles, Sacramento, San Diego and 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.
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.
COLORADO	
Colorado Springs	Colorado Springs Supply Co.
Denver	C. A. Crosta, Inc.
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; Steel Forms; Reinforcing Bars.**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—1244 N. Mariposa 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 Helgedahl
WASHINGTON	
Spokane—E. 41 Gray Ave.	Richard Lindstrom

Distributors

ALASKA	
Anchorage	Steel Fabricators, Inc.
ARIZONA	
Yuma	Gilpins Welding & Machine Works
CALIFORNIA	
Eureka	Eureka Boiler Works
Larkspur	George Pollard Construction
Modesto	Modern Steel Structures
Redding	Centaur Steel
Sacramento	R. F. Johnson & Sons
HAWAII	
Honolulu	Commercial Building Sales, Inc. (Continued in next column)

Soule Steel Co. (Cont'd)

MONTANA	
Great Falls	Barker-Mitchell Steel Co.
NEVADA	
Las Vegas	Stocks Mill & Supply Co., Inc.
Reno	Martin Iron Works, Inc.
NEW MEXICO	
Albuquerque	Frank A. Cronican, Inc.
OREGON	
Klamath Falls	Heaton Steel & Supply Co.
Medford	Industrial Machine & Pump Co.
WASHINGTON	
Yakima	Steel Building & Fencing

**SOUTHWEST WELDING & MFG. DIV.
YUBA CONSOLIDATED INDUSTRIES, INC.**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.
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., Inc.
Klamath Falls	Crater Lake Machinery Co.
La Grande	Inland 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.

SPANALL OF THE PACIFIC, INC.
8907 Railroad Avenue
Oakland 21, California**PRODUCTS:** Telescopic Girders for shoring concrete slabs.

Distributed by W. J. Burke & Co., in the following cities:

ARIZONA	
Phoenix	
CALIFORNIA	
Los Angeles, Oakland, Sacramento, San Bernardino, San Diego and San Francisco	
OREGON	
Portland	
WASHINGTON	
Seattle	

SPEARS-WELLS MACHINERY CO.1832 West Ninth Street, Box 40
Oakland 23, California**PRODUCTS:** Road and Airport Construction Maintenance Equipment.**Distributors**

CALIFORNIA	
Los Angeles	Crook Comp
Oakland	Spears-Wells Machinery
NEVADA	
Reno	Sierra Machinery
OREGON	
Portland	Cramer Machinery
UTAH	
Salt Lake City	Arnold Machinery

SPRAGUE & HENWOOD, INC.
221 West Olive Street
Scranton 4, Pennsylvania**PRODUCTS:** Diamond Core Drills; Auxiliary Drilling Equipment; Masonry Diamond Bits; "Oriented" Diamond Bits; Soil Sampling Equipment.**Western Sales Representatives**

COLORADO	
Grand Junction—New Fruita Hwy.	R. R. Ca Jacques Rich

STANCO MFGS. & SALES, INC.
1666 Ninth Street
Santa Monica, California**PRODUCTS:** Submersible Pumps; Hydraulic Tracing Equipment; Rock Drills and Breakers; Diamond Drills; Hydracell Pumps; Rock Climbers.**Distributors**

ARIZONA	
Phoenix	Lee Redman Equipment
CALIFORNIA	
Chatsworth	Murray Welding
Costa Mesa	Henry S. Der
Fresno	Contractors Equipment & Supply
Los Angeles	Brown-Bevis Industrial Eqpt. Gridley Equipment McCabe Powers Body
Lynwood	General Hoist & Equipment
Porterville	Weisenberger's Farm Supply
Redding	Shasta Truck & Equipment
San Diego	Construction Machinery
San Francisco	McCormick & Morgan
San Gabriel	Taylor Jett
Santa Clara	Ditz Bros.
W. Sacramento	Westcott Equipment & Mfg.
Stockton	Action Equipment

COLORADO	
Denver	Colorado Pump & Supply Jacobs-Kerr

IDAHO	
Boise, Idaho Falls and Twin Falls	
.....	Southern Idaho Equipment

MONTANA	
Billings, Butte, Great Falls and Missoula	
.....	Hall-Perry Machinery

NEVADA	
Reno	Reno Equipment Sales

NEW MEXICO	
Albuquerque	Rio Grande Sales & Engr. Co.

OREGON	
Medford	Cal-Ore Machinery
Portland	Geo. M. Philpott Co. Oregon

UTAH	
Salt Lake City	Cate Equipment
Price	Cate-Carbon Equipment

WASHINGTON	
Seattle	Totem Equipment
Spokane	Andrews Equipment Service of W Turner Sales

STANDARD CONVEYOR CO.
330 N.W. Second Street
North St. Paul 9, Minnesota**PRODUCTS:** Powered Roller Conveyors, Belt Conveyors; Slat Conveyors and Chain Conveyors; Vertical Lifts; Turnover Devices.
(Continued on next page)**C. I. T. CORPORATION**120 Montgomery Street, San Francisco
Northern Life Tower, Seattle416 West 8th Street, Los Angeles
Equitable Building, Portland

Standard Conveyor Co. (Cont'd)

Factory Branch Manager

CALIFORNIA
San Francisco, Acme Equipment Co., 801 Minnesota St. Frank Slater

Distributors

ARIZONA
Phoenix L. D. Nelson Equipment Co.
CALIFORNIA
Los Angeles Standard Engineering Co.
COLORADO
Denver Materials Handling Equipment Co.
NEW MEXICO
Albuquerque Roadrunner Equipment Co.
UTAH
Portland Russell G. Daley & Associates
Salt Lake City Williams Equip. & Control Co.
WASHINGTON
Seattle Russell G. Daley & Associates

STANDARD STEEL CORP.

5001 South Boyle Avenue
Los Angeles 58, California

PRODUCTS: Standard Semi-portable and Portable Asphalt Plants and Pubmills. The Standard conventional subgrader and Standard deep cut subgrader for airport work.

Distributors

CALIFORNIA
Los Angeles Standard Steel Corp.
COLORADO
Denver Faris-Moritz Equipment Co.
MONTANA
Billings Mountain Tractor Co.
NEW MEXICO
Albuquerque N. C. Ribble Co.
UTAH
Portland Guthrie Machinery Co.
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; Asphalt Supply Tanks; Asphalt Tools.

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 Keremi Tractor & Equipment Co.

JOHN W. STANG CORP.

8221 Atlantic Avenue
Bell, California

PRODUCTS: Wellpoint Systems and Pumps—Sales, Rentals and Engineering.

Factory Branch Manager

WASHINGTON
Tacoma—2339 Lincoln Ave. O. D. Garrett

STEELCRAFT MANUFACTURING CO.

9017 Blue Ash Road
Cincinnati 36, Ohio

PRODUCTS: Hollow Metal Doors and Frames for commercial and industrial construction.
(Continued in next column)

Steelcraft Manufacturing Co. (Cont'd)

Distributors

ARIZONA
Phoenix Southwest Building Products Co.
CALIFORNIA
Clovis Clovis Lumber Co.
Los Angeles Builders Hardware & Supply
Oakland Acme Central Metal Products
San Diego Wilson F. Clark
COLORADO
Colorado Springs S & C Enterprises, Inc.
Denver Western Sales Service
HAWAII
Honolulu Lewers & Cooke
IDAHO
Boise Casco Corp.
MONTANA
Billings Northland Steel Co.
Butte Construction Materials
NEW MEXICO
Albuquerque Sante Fe Builders
Roswell E & M Supply
Sante Fe Sante Fe Builders
OREGON
Portland Mercer Steel Co.
UTAH
Salt Lake City Buehner Block
Western Sales Service
WASHINGTON
Seattle Builders Specialty, Inc.
Spokane Layrite Building Materials
WYOMING
Cheyenne Powers Builders Supply

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.

Factory Personnel

Los Angeles
Paul A. Christopher District 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.
Fresno Crown Pump Co.
Los Angeles American Pump Co.
Pneumatic Machinery Co.
San Francisco Krogh Pump Co.
Shafter Shafter Pump & Machine Co.
COLORADO
Denver Air Rentals Co.
(Continued in next column)

Sterling Machinery Co. (Cont'd)

IDAHO

Idaho Falls Parkinson Tractor Co.
MONTANA
Billings Billings Pipe & Supply
Missoula Westmont Tractor Equipment Co.
NEW MEXICO
Eunice 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 Rollers; Concrete Vibrating Screeds; Concrete Vibrating Screenshot Packages; Rotary Trowels; Portable Concrete Grinding Machines and Accessories; Flexible Shafts; Flexible Shaft Take-Off Drives for Dump Trailers; Space Heaters; Ceiling Grinders; Tampers.

District Manager

CALIFORNIA
N. Hollywood—5751 Bucknell Ave. John Close

Distributors

ALASKA
Anchorage Bashaw Equipment Co.
Fairbanks Miller, Bentley & Bashaw Eqpt. Co.
CALIFORNIA
Inglewood, Oakland, Sacramento and San Diego C. P. Concrete Equipment Co.
COLORADO
Denver Frank Fuller Equipment Co.
Loveland Allied Rental Supply Co.
HAWAII
Honolulu Chapman Machinery Co.
IDAHO
Boise A. A. Equipment Rental
MONTANA
Billings Industrial Equipment Co.
Madden Construction Supply Co.
Great Falls Madden Construction Supply Co.
Carl Weisman & Sons
Missoula Westmont Tractor & Equipment Co.
NEVADA
Reno Pioneer Equipment Co. of Nevada, Inc.
NEW MEXICO
Albuquerque W. J. Burke & Co.
OREGON
Portland Air-Mac, Inc. of Oregon
UTAH
Salt Lake City J. T. Holland Co.
WASHINGTON
Seattle Hatten Machinery Co.
Spokane Air-Mac, Inc.
WYOMING
Casper Moss Equipment & Supply Co.

STRAUB MANUFACTURING CO., INC.

8383 Baldwin Street
Oakland 21, California

PRODUCTS: Rock Crushers (Jaw and Gyratory); Ball Mills; Rod Mills; Apron Feeders.

Distributors

ARIZONA
Phoenix Road Machinery Co.
CALIFORNIA
Los Angeles Garlinghouse, Fremont Co.
Oakland Straub Manufacturing Co.
San Francisco Aggregate Engineers
MONTANA
Billings Hall-Perry Machinery Co.
NEVADA
Reno Pioneer Equipment Co.
OREGON
Portland Air-Mac, Inc. of Oregon
UTAH
Salt Lake City Lund Machinery Co.
WASHINGTON
Seattle Washington Machinery Co.
Spokane Washington Machinery Co.

C.I.T.'s Engineered Finance Plans fit the needs of contractors and distributors

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.....Thraikill Equipment
Los Angeles.....Essick Manufacturing Co.
Garlinghouse, Fremont & Co.
Herouf-Decco, Inc.

Mine & Mill Machinery
Rental Yard Supply
Northridge.....Northridge Equipment Co.

Oakland.....Ricker Machinery Co.
Ontario.....A & A Equipment Co.
Orange.....Roseborough Tool

Oxnard.....Wagon Wheel Lumber Co.
San Diego.....Gould Hardware & Supply
San Francisco.....Patterson Equipment Co.

Santa Ana.....Essick Manufacturing Co.
Orange County Equipment
Temple City.....Concrete Specialties

Venice.....Great Western Equipment
COLORADO
Denver.....Universal Co.

IDAH

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 Coil Ties; She-bolts; Tilt-up Slab Pick-up Inserts; Reinforcing Bar Chairs and Spacers; 1 1/8" All-Ply Panel Forms.

Factory Branch**CALIFORNIA**

San Leandro—2100 Williams St.H. G. Ballou

Distributors**ALASKA**

Anchorage.....Anchorage Sand & Gravel Co., Inc.

ARIZONA

Phoenix.....Thomas Concrete Accessory Co.

CALIFORNIA

Los Angeles.....Thomas Concrete Accessory Co.

Redwood City.....John M. Cole Co.

Sacramento.....Capital Fasteners

HAWAII

Honolulu.....R. L. Castendyk Co.

IDAH

Caldwell.....General Steel Erectors, Inc.

Idaho Falls.....Ready-to-Pour Concrete Co.

Pocatello.....Lumber Dealers Supply Co., Inc.

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.
(Continued in next column)

Superior Equipment (Cont'd)

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 Tonges; Pipe Dollies; 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-Bevis Industrial Eqt. Co.

Madera.....Allied Equipment Co.

Oakland.....Bay Cities Equipment, Inc.

Redding.....Howard Cooper Corp. of Calif.

Reedley.....Allied Equipment Co.

Riverside.....Brown-Bevis 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.

Stratford.....Orton's Equipment Co., Inc.

Watsonville.....Farmers Mercantile Co.

COLORADO

Denver.....H. W. Moore Equipment Co.

Durango.....H. W. Moore Equipment Co.

Grand Junction.....H. W. Moore Equipment Co.

IDAH

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-Bevis Industrial Eqt. Co.

San Francisco.....George E. Swett & Co.

COLORADO

Denver.....Western Machinery Co.

OREGON

Portland.....Loggers & Contractors Mchy. 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 Boar Stands.

Distributors**ARIZONA**

Phoenix.....Equipment Sales Co.

CALIFORNIA

Los Angeles.....Superior Scaffold

Oakland.....Ricker Machinery Co.

Orange County.....Super-Rents, Inc.

San Diego.....Superior Scaffold Co. of San Diego

NEW MEXICO

Albuquerque.....Lath & Plaster Supply

(El Paso).....Lively Equipment Co.

OREGON

Portland.....A. McMillan & Co.

UTAH

Salt Lake City.....Standard Builders Supply

WASHINGTON

Seattle.....Cox Machinery Co.

SVENSKA MOTORBORR**AKTIEBOLAGET**

Stockholm-Solna
Sweden

Agent: Motoramic, Inc., 2120 Market St.,
San Francisco 14, Calif.

PRODUCTS: Submersible Drainage Pumps; Hydraulic Bar Croppers; Automatic Bar Benders.

Distributors**CALIFORNIA**

Los Angeles.....Pneumatic Machinery Co.

Oakland.....McCullough Crane & Hoist Co.

COLORADO

Denver.....Air Rentals, Inc.

OREGON

Oakland.....McCullough Crane & Hoist Co.

UTAH

Salt Lake City.....Machinery Center,

SYMONS BROTHERS CO.

11551 Hart Street
North Hollywood, California

PRODUCTS: Vibrating Screens and Grizzlies.

Distributors**CALIFORNIA**

San Francisco.....Edward R. Bacon Co.

IDAH

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; Form Ties; Concrete Forming Accessories; Column Clamps; Adjustable Shores and Steel Stakes.

Factory Branch Managers**CALIFORNIA**

S. El Monte—2112 N. Rosemead...Richard Kozlowski

OREGON

Portland—318 N. E. Couch St.H. L. Price

District Representatives**CALIFORNIA**

Menlo Park—677 Fremont St. James W. Calloway

WASHINGTON

Seattle—10728 - 5th Av., N. W. Harold W. Caffrey

Distributors**ARIZONA**

Phoenix.....Border Products Co.

COLORADO

Denver.....Contractors Equipment & Supply 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

mons Clamp & Mfg. Co. (Cont'd)

ATANA
 eat Falls Monty Machinery Co.
MEXICO
 buquerque
 McCaffrey-Way Materials & Supply Co., Inc.
H
 Mt Lake City.....Contractors Eqpt. & Supply Co.

LBERT TRAILERS, INC.

7950 West 47th Street
 Lyons, Illinois

DUCTS: Removable Gooseneck Low Bed Trailers; Machinery Trailers; Tilt Trailers; Dump Trailers; Pole Trailers; Mobile Crane-Mounts.

Distributors

ASKA
 anchorage.....Miller & Bentley-Bashaw Eqpt. Co.
NTANA
 eat FallsPower Equipment Co.
H
 Mt Lake City.....Rocky Mountain Machinery Co.
OMING
 heyenneWilson Equipment & Supply Co.

EMPO MANUFACTURING CO.

1146 West Laurel Street
 P.O. Box 4248, Sta. A.
 San Antonio 7, Texas

DUCTS: Pneumatic Tired Rollers, towed type and self-propelled; Vibratory Rollers; Compactors; Sheepfoot Tamping Rollers; Batching Plants; Bins; Conveyors; Storage Bins; Weighing Batches; Cement Handling Equipment; Ready-Mix Plant Equipment.

Distributors

ASKA
 Anchorage.....Bashaw Equipment Co.
IZONA
 Phoenix.....Western Machinery Co.
IFORNIA
 City of Industry.....Smith Booth Usher Co.
 San Francisco.....Edward R. Bacon Co.
ORADO
 Denver.....Western Machinery Co.
HO
 Boise.....Intermountain Equipment Co.
NTANA
 Great Falls.....NorMont Equipment Co.
 Missoula.....Mountain Tractor Co.
VADA
 Elko.....A-D Machinery Co., Inc.
 San Francisco.....Edward R. Bacon Co.
W MEXICO
 Albuquerque.....Lively Equipment Co.
EGON
 Portland.....Howard-Cooper Corp.
AH
 Salt Lake City.....Kimball Equipment Co.
ASHINGTON
 Seattle.....Howard-Cooper Corp.
 Spokane.....Intermountain Equipment Co.
OMING
 Casper.....Studer Tractor & Equipment Co.

OWARD F. TAYLOR CO.

1205 Shoshone Street
 Denver 4, Colorado

DUCTS: Tampers

Distributors

y authorized dealer or distributor of air eqpt.

TEALE & COMPANY

1417 North 52nd Street
 Omaha, Nebraska

DUCTS: Bulldozers, Front-end Loaders for crawler tractors; Truck Cranes; Scarifiers.

Western Personnel

IZONA
 Phoenix—
 P. O. Box 2406 Reading Overstreet, Dist. Mgr.
IFORNIA
 Southgate—
 10825 Sessler St., Les Blackwood, Sales Mgr.
 Stockton—
 1869 W. RoseJ. E. McGinness, Reg. Mgr.
 (Continued in next column)

Teale & Company (Cont'd)**Distributors**

ARIZONA
 PhoenixO. S. Stapley Co.
 TucsonEquipment Sales & Service
CALIFORNIA
 Long BeachCrescent Hydraulic Crane Co.
 San DiegoKenton Equipment Co.
 SouthgateHydraulic Tool & Eqpt. Co., Inc.
MONTANA
 Great FallsNormont Equipment Co.
NEW MEXICO
 AlbuquerqueSandia Tractor & Impl. Co.
WASHINGTON
 SeattleAir 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; Rol-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
 DouglasPhelps-Dodge Corp.
 PhoenixArizona Hardware Co.
 Pratt Gilbert Hardware Co.
CALIFORNIA
 BakersfieldHopper Machine Works, Inc.
 Long BeachAmerican Wholesale Hardware Co.
 Los AngelesBethlehem 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.
 SacramentoL & G Specialties
 Thomson Diggs Co.
 San DiegoGould Hardware & Machinery Co.
 Western Metal Supply Co.
 San FranciscoEdward R. Bacon Co.
 Baker & Hamilton
 C. H. Bull Co.
 Gilmore Steel & Supply Co.
 A. J. Glesener Co.
 San LeandroRepublic Supply Co. of California
 TorranceNational Supply Co. of California
COLORADO
 DenverMine & Smelter Supply Co.
IDAHO
 BoiseIntermountain Equipment Co.
 PocatelloIntermountain Equipment Co.
 WallaceCoeur d'Alene Hdwe. & Fdry. Co.
MONTANA
 BillingsGreat Northern Tool & Supply Co.
 ButteHall-Perry Machinery Co.
 Montana Hardware Co.
 KalispellWestmont Tractor & Equipment Co.
 Great FallsCarl Weissman & Sons, Inc.
NEVADA
 RenoSierra Machinery Co.
NEW MEXICO
 AlbuquerqueContractors Equip. & Supply Co.
 R. L. Harrison Co., Inc.
 J. Korber & Co.
 Lively Equipment Co.
 ArtesiaAllied Supply Co.
 Union Supply Co., Inc.
 CarlsbadUnion Industrial Corp.
OREGON
 AstoriaFisher Brothers Co.
 CorvallisRoesser's Hardware Co.
 Klamath FallsLorenz Company
 PortlandJ. E. Haseltine & Co.
 Northern Wholesale Hdwe. Co.
UTAH
 Salt Lake CityIndustrial Supply Co.
 Mine & Smelter Supply Co.
 (Continued in next column)

Templeton, Kenly & Co. (Cont'd)**WASHINGTON**

SeattleThe Carrington Co.
 Campbell Industrial Supply Co.
 Clyde Equipment Co.
 Peterson Wholesale Hardware Co.
 Seattle Hardware Co.
 Star Machinery Co.
 Yukon Equipment, Inc.
 SpokaneJ. E. Haseltine & Co.
 Intermountain Equipment Co.
 Towne Equipment Co.
 TacomaHunt & Motter Co.
 YakimaYakima Hardware Co.

Hydraulic Service Stations

CALIFORNIA
 Los AngelesFornaciari Co.
 SacramentoL & G Specialties
 San FranciscoC. H. Bull Co.
COLORADO
 DenverQuinn & McGill Motor Supply Co.
MONTANA
 Great FallsH. W. Ludwig's Hyd. Jack Service
OREGON
 PortlandEquipment Service Co.
UTAH
 Salt Lake CityWilson's Transport Supply
WASHINGTON
 SeattleUniversal Repair Shop

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
 AnchorageYukon Equipment, Inc.
ARIZONA
 PhoenixLee Redman Equipment Co.
CALIFORNIA
 Los AngelesSanta Fe Equipment Co., Inc.
 San BernardinoSanta Fe Equipment Co., Inc.
 San FranciscoCoast Equipment Co.
IDAHO
 BoiseSouthern Idaho Eqpt. Sales Co.
 Idaho FallsSouthern Idaho Eqpt. Sales Co.
 Twin FallsSouthern Idaho Eqpt. Sales Co.
MONTANA
 BillingsNash-Davis Machinery Co.
 BozemanNash-Davis Machinery Co.
 GlasgowTractor & Equipment Co.
 Great FallsCentral Machinery Co.
 HavreCentral Machinery Co.
 KalispellMountain Tractor Co.
 LewistonCentral Machinery Co.
 Miles CityTractor & Equipment Co.
 MissoulaMountain Tractor Co.
 SidneyTractor & Equipment Co.
NEVADA
 RenoGeneral Equipment Co.
OREGON
 EugeneInterstate Tractor & Eqpt. Co.
 PortlandInterstate Tractor & Eqpt. Co.
UTAH
 Salt Lake CityAtlas Equipment Co.
WASHINGTON
 SeattleHatten Machinery Co.
 SpokaneAndrews Equipment Service
WYOMING
 GreybullNash-Davis Machinery Co.

THOMPSON AIRCRAFT TIRE CORP.

160 Beacon Street
 South San Francisco, California

PRODUCTS: Retreading and Repair of "Off Highway" Tires up to and including 33.5x33.

Construction Tire Department

CALIFORNIA
 Mountain View, 491 Dana St. R. A. Singler, Mgr.

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' (Continued on next page)

C.I.T. Loans on Equipment Fleets increase contractors working capital funds

Thor Power Tool Co. (Cont'd)

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.
Tucson Western Machinery Co.

CALIFORNIA

Bishop Black's Machine Shop
City of Industry Smith Booth Usher Co.
Fresno Edward R. Bacon Co.
Sacramento Edward R. Bacon 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

Medford Cal-Ore Machinery Co., Inc.
Portland Feenaughty Machinery Co.

UTAH

Midvale Utah Bit & Steel Co.
Salt Lake City Western Machinery Co.

WASHINGTON

Seattle A. H. Cox & Co.
Yukon Equipment Co.
Spokane Western Machinery Co.

WYOMING

Casper Wortham Machinery Co.
Cheyenne Wortham Machinery Co.

THURMAN SCALE CO.

156 North Fifth Street
Columbus 16, Ohio

PRODUCTS: Heavy Duty Industrial Scales (Pit & Pitless); Portable & Pit Truck Scales; Batch Scales (Manual Beam & Dial Types); Batch Scales (Automatic Beam & Dial Types); Weight Printers and Recorders; Dormant or Warehouse Scales; Wheelbarrow Scales; Water Tank Scales.

Distributors**ARIZONA**

Phoenix Copper State Tractor Co.
Western Machinery Co.

CALIFORNIA

Los Angeles Shaw Sales & Service
San Diego Kenton Equipment Co.
Sun Valley Schroeder & Co.

COLORADO

Denver Tudor Equipment Co.
Western Machinery Co.
Grand Junction S & M Supply Co.

HAWAII

Honolulu Edward R. Bacon Co. of Hawaii, Ltd.
Hawaiian Equipment Co., Ltd.

IDAHO

Boise Arnold Machinery Co.
Idaho Falls Arnold Machinery Co.

MONTANA

Billings Industrial Equipment Co.
Great Falls Monty Machinery Co.
NorMont Equipment Co.
Kalispell Treasure State Equipment Co.
Missoula Mountain Tractor Co.

NEW MEXICO

Albuquerque The Cornelius Co.
Leonard Motor Co., Inc.
Lively Equipment Co.
Las Cruces Oliver Equipment Co.

UTAH

Salt Lake City Arnold Machinery Co., Inc.
Foulger Equipment Co.
Kimball Equipment Co.
Midvale Utah Bit & Steel, Inc.

(Continued in next column)

Thurman Scale Co. (Cont'd)**WASHINGTON**

Seattle Air-Mac, Inc. of Washington
Clyde Equipment Co.
Spokane Air-Mac, Inc. of Washington
Inland Diesel & Machinery Co.
Spokane Machine 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

TOPEKA HIWAY MOWER, INC.

623 East Seventh Street
Topeka, Kansas

PRODUCTS: Heavy Duty Hydraulic Highway Mowing Machines — self-propelled, integrated (sickle-bar, rotary, hammermill); Attachments.

Regional Manager**CALIFORNIA**

Piedmont, 1855 Trestle Glen Rd. K. B. Colburn

Distributors**ARIZONA**

Phoenix Western Machinery Co.

CALIFORNIA

Sacramento Sacramento Valley Tractor Co.

COLORADO

Denver Liberty Trucks & Parts Co.

IDAHO

Boise Intermountain Equipment Co.

NEVADA

Reno Sierra Industrial Co., Inc.

NEW MEXICO

Albuquerque R. L. Harrison Co., Inc.

OREGON

Portland Howard-Cooper Corp.

UTAH

Salt Lake City Western Machinery Co.

WASHINGTON

Seattle Howard-Cooper Corp.
Spokane Intermountain Equipment Co.

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.

HAWAII

Hilo Theo. H. Davies & Co., Ltd.
Honolulu Theo. H. Davies & Co., Ltd.

IDAHO

(Salt Lake City) The Salt Lake Hardware Co.

MONTANA

Billings Montana Toro Sales Co.
Kalispell Manions

(Continued in next column)

Toro Manufacturing Corp. (Cont'd)**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

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 Scri-Plows, Wheel controlled Scri-Plows, Giant Disc Tillers for dam construction or clearance work, Mobile carriers with tool bars, Subsoilers and shank—Giant Disc Plows.

Western Representative**MONTANA**

Great Falls—1322-16th St. So. Edward Whitcomb

NEW MEXICO

(El Paso, Texas) 120 Willow Lane C. R. Wettlaufer

Distributors**ARIZONA**

(Fresno) Towner-Meyer Co.

CALIFORNIA

Colton Towner-Meyer Co.

COLORADO

Denver Western Machinery Co.

IDAHO

(Salt Lake City) Western Machinery Co.

OREGON

(Yakima) Rankin Equipment Co.

UTAH

Salt Lake City Western Machinery Co.

WASHINGTON

Yakima Rankin Equipment Co.

TRAFFIC EQUIPMENT CO.

2160 South Lipan Street
Denver, Colorado

PRODUCTS: Self-Contained Flashing Light Bar Cades; 4" and 7" Flashing Lights; Semi-Permanent and Permanent Barricade Manhole Guards; Tripods; Steel Bridge Wings; Traffic Control Devices.

Distributors**ARIZONA**

Phoenix O. S. Stapley Co.

COLORADO

Colorado Springs Bishop Hill Tool & Supply Co.

Denver C & C Tire & Supply Co.

Dana Kepner Co.

Macdonald Equipment Co.

Western Machinery Co.

Grand Junction Western Machinery Co.

Pueblo Colorado Road Machine Co.

IDAHO

Boise Starline Equipment Co.

MONTANA

Billings Hall-Perry Machinery Co.

NEW MEXICO

Albuquerque McCaffrey-Way Materials & Supply Co.

OREGON

Portland E. L. Kropp Co.

Sanderson Safety Equipment Co.

Traffic Safety Supply Co.

UTAH

Salt Lake City Atlas Equipment Co.

WASHINGTON

Seattle Sahlberg Equipment Co.

WYOMING

Cheyenne Western Safety Equipment Co.

TRAILMOBILE, INC.

901 Gilman Street
Berkeley 10, California

PRODUCTS: Commercial Truck-Trailers.
(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

Imobile, Inc. (Cont'd)

Factory Branch Managers

IDAHO
 Boise, 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...Darrell 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 Salesmen

Boise, 702 Pearl St.....H. A. Boe
IDAHO
 Boise, 316 N. 25th St.....Wayne Johnson

Distributors

IDAHO
 Portland.....Riddell Trailer Co.
WASHINGTON
 Seattle.....Riddell Trailer Co.

TRANSPORT TRAILERS, INC.

200 12th Street Southwest
 Cedar Rapids, Iowa

PRODUCTS: Heavy-duty Trailers; Lowbeds; Platform Trailers; Tilt Trailers; Dump Trailers; Beam Trailers; Removable Gooseneck Trailers; Trailer Dollies.

Distributors

ALASKA
 Anchorage Craig Taylor Equipment & Service Co.
IDAHO
 Boise.....Arizona Cedar Rapids Co.
 Carson.....F. Ronsstadt Hardware Co.
CALIFORNIA
 Berkeley.....West Coast Engine & Equipment Co.
COLORADO
 Denver.....H. W. Moore Equipment Co.
UTAH
 Salt Lake City.....Feenaughty Machinery Co.
IDAHO
 Boise.....Arnold Machinery Co., Inc.
MT. ANA
 Billings.....Montana Powder & Equipment Co.
 Helena.....Montana Powder & Equipment Co.
IDAHO
 Boise.....Sierra Machinery Co.
NEW MEXICO
 Albuquerque.....J. D. Coggins Co.
IDAHO
 Portland.....Feenaughty Machinery Co.
UTAH
 Salt Lake City.....Arnold Machinery Co.
WASHINGTON
 Seattle.....Feenaughty Machinery Co.
 Spokane.....Feenaughty Machinery Co.
IDAHO
 Casper.....Keremi Tractor & Equipment Co.
 Cheyenne.....Keremi Tractor & Equipment Co.

AVEL-BATCHER CORP.

6500 Holladay Boulevard
 Salt Lake City 17, Utah

PRODUCTS: "Travel-Batcher" and "Travel-Batcher" Cement Silo.

Distributors

IDAHO
 Boise.....Western Machinery Co.
CALIFORNIA
 San Francisco.....Coast Equipment Co.
COLORADO
 Denver.....Western Machinery Co.
WASHINGTON
 Seattle.....Hatten Machinery Co.
 Spokane.....Western Machinery Co.
IDAHO
 Casper.....Moss Equipment & Supply Co.

TAYLOR ENGINEERING & MFG. CO.

Division of Fuller Company
 Tenth and Mill Streets
 Allentown, Pennsylvania

PRODUCTS: Gyration, Jaw and Reduction Crushers; Crushing Rolls; Rod Mills; Ball Mills; Apron and Grizzly Feeders.

(Continued in next column)

Traylor Engineering & Mfg. Co. (Cont'd)

Factory Branch Office

CALIFORNIA
 San Francisco, 55 New Montgomery
 Manager.....E. B. Greef

Distributors

ARIZONA
 Phoenix.....National Equipment Co.
OREGON
 Portland.....Feenaughty Machinery Co., Inc.
UTAH
 Salt Lake City.....National Equipment Co.
WASHINGTON
 Spokane.....National Equipment Co.

TRETOLITE CO. OF CALIFORNIA
 5515 Telegraph Road
 Los Angeles 22, California

PRODUCTS: Chemicals—DEHYDRO H-74 Asphalt Anti-Stripping Additive.

TRIUMPH MACHINERY CO.
 Willow Grove Street
 Hackettstown, New Jersey

PRODUCTS: Hydraulic Driven Highway Mowers; Landscape Rakes.

Distributors

See your local tractor distributor.

TUBULAR STRUCTURES CORP. OF AMERICA

2960 Marsh Street
 Los Angeles 39, California

PRODUCTS: Portable Power Hoists; Concrete Buckets; Material Towers; Construction Passenger Elevators; Steel Shoring; Scaffolding.

Distributors

ALASKA
 Spenard.....Bailey's Rent-All
ARIZONA
 Phoenix.....Waco Scaffold & Equipment Co.
 Tucson.....Rudolph Higuera Co.
CALIFORNIA
 Anaheim.....Bryco Sales, Inc.
 Fresno.....Atlas Scaffold & Equipment Co.
 Fontana.....Fontana Scaffolding & Equipment Co.
 Los Angeles.....Southland Scaffold & Equipment, Inc.
 San Francisco.....Laurence Meyers & Co.
 Santa Barbara.....Fontana Scaffolding & Equipment Co.
 Spring Valley.....Tru-Bell Scaffold & Equipment Co.
 Stockton.....Waco Scaffold & Equipment Co.
COLORADO
 Denver.....Waco Scaffold & Equipment Co.
HAWAII
 Honolulu.....Hawaiian Equipment Co., Ltd.
NEVADA
 Reno.....Ready-Mix Concrete Co.
NEW MEXICO
 Albuquerque.....Frank's Supply
OREGON
 Portland.....Waco Scaffold & Equipment Co.
UTAH
 Salt Lake City.....Oscar E. Chytraus Co.
WASHINGTON
 Seattle.....Air-Mac, Inc.
 Spokane.....Ferris Equipment Co.
 Yakima.....Safway Equipment 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.
UTAH
 Salt Lake City.....Lang Construction Eqpt. Co.
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-SHEAVE 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

Distributor

ARIZONA
 Phoenix.....Arizona Equipment Sales, Inc.
CALIFORNIA
 Bakersfield.....California Truck & Ind. Eqpt. Co.
 Huntington Park.....N. A. D'Arcy 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.....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. 14, 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. 14, No. 12 and No. 112 Motor Graders; Hydraulic Loader for Caterpillar D4 Tractors, both oscillating and non-oscillating types; Front Mounted Push Plate for Caterpillar No. 14, 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.
 (Continued on next page)

C.I.T.'s Pay-As-You-Depreciate Plan provides long term financing for equipment purchases

**The Union Chain & Mfg. Co.
(Cont'd)****ARIZONA**

PhoenixConstruction & Mining Supply Corp.

CALIFORNIA

BakersfieldJiffy Trencher Parts Co.

FresnoCommercial Mfg. & Supply Co.

Los AngelesAmerican Chain & Gear Co.

SacramentoJiffy Trencher Parts Co.

San DiegoHansson Motor Supply

San FranciscoCharles A. Fowler Co.

Santa AnaSanta Ana Chain & Gear Co.

StocktonStockton Iron Works

COLORADO

DenverAllen Bearings & Supply Co.

.....Power Transmission Co., Inc.

Grand Junction

.....Bearing & Power Transmission Co.

MONTANA

Great FallsBrack Motor Supply Co.

NEW MEXICO

AlbuquerqueUnion Industrial Corp.

CarlsbadUnion Industrial Corp.

FarmingtonJustis Supply Co.

OREGON

EugeneMunnell & Sherrill, Inc.

MedfordSo. Oregon Bearing Sales Co.

PortlandMunnell & Sherrill, Inc.

RoseburgMunnell & Sherrill, Inc.

UTAH

Salt Lake City

.....The Power Transmission Supply Co.

WASHINGTON

LongviewLongview Equipment Co.

SeattleBearing Engineering & Supply Co.

Walla WallaWhite Bros.

UNIT WIRE ROPE CORP.**Subsidiary of Armco Steel Corp.
21st and Manchester Avenue
Kansas City 26, Missouri****PRODUCTS:** Wire Rope; High Carbon Wire and
Slings; Stress Relieved Wire and Strand.**Factory Branch Managers****CALIFORNIA**

N. Sacramento—903 Del Paso Blvd..H. F. Malloy

COLORADO

Denver—3920 Grape St.....C. H. Conley

OREGON

Portland—1637 NW 14th Ave. .D. A. Villanueva

Factory Personnel**CALIFORNIA**

Los Angeles—Sales Representative.R. K. Erickson

San Francisco—Regional Manager .D. E. Bedford

UNIT CRANE & SHOVEL CORP.**6411 West Burnham Street
Milwaukee 19, Wisconsin****PRODUCTS:** Cranes, Shovels, Draglines, Clamshells
and Trenches—1/2 to 3/4 yard as excavators
and cranes up to 40 tons—crawler, mobile
and truck mounted.**District Sales Representative****CALIFORNIA**

Sacramento—4440 Cabrillo Way ..Herman Combs

Distributors**ARIZONA**

PhoenixThe O. S. Stapley Co.

CALIFORNIA

BakersfieldInland Equipment Co.

Los AngelesGarlinghouse, Fremont & Co.

San DiegoGarlinghouse, Fremont & Co.

Santa RosaStevenson Equipment Co., Inc.

HAWAII

HonoluluSchuman Carriage Co., Ltd.

MONTANA

BillingsSeitz Machinery Co., Inc.

Great FallsSeitz Machinery Co., Inc.

NEVADA

RenoReno Equipment Sales

OREGON

PortlandManitou Equipment Co.

UTAH

Salt Lake City

.....Rasmussen Equipment & Supply Co.

WASHINGTON

SeattleManitou Equipment Co.

SpokaneInland Diesel & Machinery Co.

WYOMING

CasperCentury White Truck Co., Inc.

UNIT MANUFACTURING CO.**1229 Harmon Place
Minneapolis 3, Minnesota****PRODUCTS:** Cranes (hand power); Hoist (crane,
electric, hydraulic, portable); Hydraulic
Cylinders.**Distributors****ARIZONA**

PhoenixSouthwest Truck Body & Equipment

CALIFORNIA

FresnoA & P Body & Tank Distributors

Los AngelesAmerican Equipment Co.

.....Jumbo Equipment Co.

OaklandK & K Body Works

San FranciscoRickstell Sales Co.

.....Heil Eqpt. Co. of No.-Calif.

COLORADO

DenverTruck Equipment Co.

IDAHO

BoiseLang Construction Equipment Co.

PocatelloWilliamson Body & Equipment Co.

MONTANA

BillingsH-C-L Equipment Co.

Great FallsH-C-L Equipment Co.

NEVADA

(Covered by California distributors)

NEW MEXICO

AlbuquerqueWinter-Weiss Co.

OREGON

PortlandSchetky Equipment Corp.

UTAH

OgdenTruck Equipment Co.

WASHINGTON

SeattleNelson Truck Equipment Co.

.....Tri-Coach Co.

WYOMING

(Denver)Truck Equipment Co.

UNITED STATES RUBBER CO.**1230 Avenue of the Americas
New York 20, New York****PRODUCTS:** Hose and Hosing; Tires (truck, auto,
construction equipment of all kinds); Bat-
teries; Protective Clothing and Helmets
(all kinds); Pipe and Fittings, plastic (all
kinds); Plastic Products, Industrial and
automotive; Portable Construction Hous-
ing; Conveyor Belting; Timing Belts; Tub-
ing and Fittings; Valves; Tank Lining;
Expansion Joints; Tape.**District Sales Managers****CALIFORNIA**

Los AngelesE. G. Morrill

San FranciscoW. I. Butler

COLORADO

DenverW. E. Larson

UTAH

Salt Lake CityW. E. Larson

Branches and Offices**CALIFORNIA**

Los Angeles—Soto and E. 46th Streets

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 ManagerM. Harvey
Manager—Fleet SalesD. A. Buchanan**Factory Branches****CALIFORNIA**

Los Angeles—Soto & E. 46th St.. W. J. Gallagher

San Francisco—6025 Third St.. W. W. Knaup, Jr.

COLORADO

Denver—4800 Colorado Blvd.E. V. Langdon

WASHINGTON

Seattle—5900 First Ave. So.R. R. Walker

Distributors**ARIZONA**

PhoenixEarl Stowe Tire Co.

(Continued in next column)

United States Rubber Co. (Cont'd)**CALIFORNIA**

AzusaDunkin Tire Co.

COLORADO

DenverArt Maluat, Inc.

HAWAII

HonoluluRoyal Tire & Supply

NEW MEXICO

AlbuquerqueWalt Wilger Tire Co.

WASHINGTON

YakimaRogers 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 (NEW MEXICO, WYOMING)**

DenverThompson Pipe & Steel Co.

MONTANA (IDAHO)

BillingsEaton Metal Products Co.

UTAH

Salt Lake CityAtlas Equipment Co.

WASHINGTON (OREGON)

SpokaneSpokane Culvert & Fabricating Co.

UNIVERSAL ENGINEERING CORP.**625 "C" Avenue, N.W.
Cedar Rapids, Iowa****PRODUCTS:** Crushing, Screening, Washing, Load-
ing and Conveying Equipment (portable,
semi-portable and stationary) for rock,
gravel, sand and aglime; Ore Crushing and
Handling Equipment; Asphalt Plants.**District Manager****CALIFORNIA (NEVADA, OREGON, WASHINGTON)**

Reseda—6439 Shirley Ave.C. O. Stewart

Distributors**ALASKA**

Anchorage, Fairbanks and Ketchikan

.....Yukon Equipment, Inc.

ARIZONA

PhoenixArizona Equipment Sales

CALIFORNIA

Los AngelesCalavar Corporation

San FranciscoMcCormick Morgan Co.

COLORADO

DenverLiberty Trucks & Parts Co.

IDAHO

BoiseG-K Machinery Co.

PocatelloRocky Mountain Machinery Co.

MONTANA

Billings, Great Falls, Helena and Missoula

.....Montana Powder & Equipment Co.

NEVADA

RenoSanford Tractor & Equipment Co.

NEW MEXICO

AlbuquerqueThe Cornelius Co.

OREGON

EugeneLoggers & Contractors Machinery Co.

PortlandLoggers & Contractors Machinery Co.

UTAH

Salt Lake CityRocky Mountain Machinery Co.

WASHINGTON

SeattleTotem Equipment Co.

SpokaneModern Machinery Co., Inc.

WYOMING

CasperMoss Equipment Co.

UNIVERSAL FORM CLAMP CO.**1238 North Kostner Avenue
Chicago 51, Illinois****PRODUCTS:** Uni-Form Panels; Spiroloc Form Ties;
Twistye Form Ties; Form Clamps; Anchor-
ing Devices; Reinforcing Bar Supports.**Factory Branch Managers****CALIFORNIA**

Los Angeles—13210 S. Figueroa St.D. Harris

San Leandro—2051 Williams St.N. Turner

Distributors**ARIZONA**

PhoenixSuperior Equipment Co.

COLORADO

DenverK. C. Construction Supply 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**

Universal Form Clamp Co. (Cont'd)

MEXICO
 Bequerque Equipment Rental & Sales Co.
GON
 rtland McCracken-Ripley Co.
H
 it Lake City Steel Engineers Co.
INGTON
 attle Hatten Machinery Co.
 okane Ferris Equipment Co.

UNIVERSAL MANUFACTURING CORP.

550 W. New Castle Street
Zelienople, Pennsylvania

DUCTS: Ezebilt Steel Panel Scaffolding and Scaffold-for-Shoring; Steel Post Shores; Endlok Pipe and Clamp Scaffolding; Side-walk Bridging; American Tubular Elevator Towers; Arrow Bleachers.

Distributors

ORADO
 enver Contractors Equipment & Supply Co.
MAIL
 onolulu Commercial Equipment Co., Ltd.
H
 alt Lake City Contractors Equipment & Supply Co.
SHINGTON
 attle Universal Equipment Co.

UNIVERSAL MOTOR CO.

557 Universal Drive
Oshkosh, Wisconsin

DUCTS: Electric Generating Sets—gasoline and diesel.

Distributors

ASKA
 uneau Parsons Electric Co.
ONA
 hoenix Arizona Equipment Sales Co.
 Beeler Brothers
 The O. S. Stapley Co.

IFORNIA
 os Angeles Fornaciari Company
 Larson Equipment Co.
 Shepherd Machinery Co.
 Newport Beach Harmath Elec. & Mfg. Co.
 an Diego Shepherd Machinery Co.
 an Francisco Coast Equipment Co.
 Thomas A. Short Co.

ORADO
 enver Contractors Equipment Co.
 King & East Machinery Co.
 Mine & Smelter Supply Co.
 Grand Junction S & M Supply Co.
AHO
 Boise Engineering Sales Service, Inc.
W MEXICO
 Albuquerque J. D. Coggins Co.
EGON
 Medford Sal-Ore Machinery Co., Inc.
 Cim Grady Machinery Co.
 Portland T. B. Cook Engine Co.

ASHINGTON
 Seattle Andrews Machinery Co.
 The Carrington Co.
 Northern Commercial Co.
 Pacific Marine Supply Co.

YOMING
 Casper Moss Equipment Co.

UTILITY TRAILER MFG. CO.

17300 Chestnut Street
P.O. Box F-1
City of Industry, California

DUCTS: 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

IFORNIA
 San Francisco—155 Bayshore Blvd. ..Walt Pavela

Distributors

IZONA
 hoenix Utility Trailer Sales Co.
 (Continued in next column)

Utility Trailer Mfg. Co. (Cont'd)

CALIFORNIA
 Fresno, Los Angeles, Modesto, Sacramento, San Diego, San Jose and San Francisco
 Utility Trailer Sales Co.
COLORADO
 Denver Utility Trailer Sales of Colorado
HAWAII
 Honolulu Schuman Carriage Co., Ltd.
OREGON
 Portland Utility Trailer & Eqpt. Co.
UTAH
 Salt Lake City Utility Trailer Sales of Utah, Inc.
WASHINGTON
 Seattle Transport Trailer & Eqpt. 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.

VASCOLOY-RAMET COMPANY

800 Market Street
Waukegan, Illinois

PRODUCTS: Rock Bits (Carbide Tipped).
Distributors

ARIZONA
 Phoenix Construction & Mining Supply Co., Inc.
 D. W. Jaquays & Co.
 Lee Redman Equipment Co.
 Tucson Complete Industrial Supply
 Supplies for Industries, Inc.

CALIFORNIA
 Los Angeles Almquist Tool & Equipment Co.
 Continental Drilling Co.
 Gardner-Denver Co.
 Redding Paul Droscher Sales Co.
 Sacramento George M. Philpott Company
 San Francisco Gardner-Denver Co.
 George M. Philpott Co.
 Woodside Gus L. Johnson

COLORADO
 Denver Gardner-Denver Co.
 Ralph B. Moore, Inc.
 Edward F. Taylor Co.

IDAHO
 Idaho Falls Arnold Machinery Co., Inc.
 Wallace Gardner-Denver Co.

MONTANA
 Butte Gardner-Denver Co.
 Hall-Perry Machinery Co.
 Pioneer Equipment & Supply Co.

NEVADA
 Reno Pioneer Equipment Co. of Nevada, Inc.

NEW MEXICO
 Albuquerque Mine Supply Co.
 Carlsbad Hall Machine & Welding Co.

OREGON
 Portland George M. Philpott Company

UTAH
 Midvale Utah Bit & Steel Service Co.
 Salt Lake City Arnold Machinery Co., Inc.
 Gardner-Denver Co.

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.
Distributors

ALASKA
 (Seattle) Yukon Equipment Co.
 (Continued in next column)

Viber Company (Cont'd)

ARIZONA
 Phoenix Don Leffler
 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 Manager

CALIFORNIA
 Pasadena—1383 N. Coolidge Ave. ..A. Cheslow

Distributors

ALASKA
 Anchorage Craig Taylor Equipment & Supply Co.
 Fairbanks Craig Taylor Equipment & Supply Co.

ARIZONA
 Phoenix Western Machinery Co.

CALIFORNIA
 Berkeley West Coast Engine & Eqpt. Co.
 Los Angeles Morrissey Equipment, Inc.

COLORADO
 Denver Air Rentals, Inc.

HAWAII
 Honolulu Edward R. Bacon Co. of Hawaii

IDAHO
 Boise, Idaho Falls and Twin Falls
 Idaho Falls Sawtooth Company
 Arnold Machinery Co., Inc.

MONTANA
 Billings Seitz Machinery Co., Inc.
 Great Falls Seitz Machinery Co., Inc.

NEVADA
 Las Vegas Inland Service & Supply Corp.

NEW MEXICO
 Albuquerque The Cornelius Co.
 Farmington The Cornelius Co.

OREGON
 Portland Andrews & Andrews Equipment Co.

UTAH
 Salt Lake City Arnold Machinery Co., Inc.
 Foulger Equipment Co.
 Parker Equipment Co.

WASHINGTON
 Seattle Air-Mac, Inc.
 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
 (Continued on next page)

**C.I.T.'s Engineered Finance Plans fit the needs of
 contractors and distributors**

Victaulic Co. of America (Cont'd)**Distributors**

ARIZONA	
Phoenix	Lee Redman Equipment Co. Republic Supply Co.
CALIFORNIA	
Los Angeles	Keenan Pipe & Supply Co. Kelly Pipe Co. Republic Supply Co.
Oakland	Pacific Pipe Co.
San Diego	Republic Supply Co.
San Francisco	Pacific Pipe Co.
San Leandro	Republic Supply Co.
COLORADO	
Denver	Grimes Pipe & Supply Co. Union Supply Co.
Grand Junction	Mine & Oil Supply Co.
IDAHO	
Wallace	Coeur d'Alene Hardware Co.
MONTANA	
Butte	Montana Hardware Co.
NEW MEXICO	
Grants	Ambrosia Supply Co. Republic Supply Co.
UTAH	
Salt Lake City	Galigher Co.
WASHINGTON	
Seattle	E. C. Griffin Co.

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 Labagh
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 Machinery Co.
Butte	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; Pile Driving Leaders.

Distributors

ALASKA	
(Seattle)	A. H. Cox & Co.
ARIZONA	
Phoenix	Superior Equipment Co., Inc.
Tucson	Superior Equipment Co., Inc.
CALIFORNIA	
Los Angeles	Harron, Richard & McCone Co. of So. Calif.
San Francisco	Coast Equipment Co.
COLORADO	
Denver	Air Rentals, Inc.
HAWAII	
Honolulu	Honolulu Iron Works Co.
IDAHO	
Boise	Intermountain Equipment Co.
Pocatello	Intermountain Equipment Co.
MONTANA	
Billings	Industrial Equipment Co.
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

844 West State Street
Hartford, Wisconsin

PRODUCTS: Gasoline-powered Rammer; Gasoline powered Vibrating Plate

Western Personnel

CALIFORNIA	
Oakland—1025 W. MacArthur Blvd.	
	Karl H. Laudenbach Branch Mgr.
	Dean Mitchell, District Mgr.

Distributors

ARIZONA	
Phoenix	Superior Equipment Co., Inc.
CALIFORNIA	
Los Angeles	Garlinghouse, Fremont & Co.
San Francisco	Edward R. Bacon Co.
COLORADO	
Denver	Rental Machinery Co.
HAWAII	
Honolulu	Edward R. Bacon Co. of Hawaii
IDAHO	
Boise	G-K Machinery Co.
MONTANA	
Billings	Industrial Equipment Co.
NEVADA	
Las Vegas	Inland Service & Supply Corp.
Reno	Sierra Industrial Co., Inc.
NEW MEXICO	
Albuquerque	Frank Supply Co.
OREGON	
Eugene	Western Equipment Co.
Medford	Cal-Ore Machinery Co., Inc.
Portland	Feenaghty Machinery Co.
UTAH	
Salt Lake City	Rocky Mountain Machinery Co.
WASHINGTON	
Seattle	The Carrington Co. Hatten Machinery Co.
Spokane	General Machinery Co. Modern Machinery Co.
Yakima	Safeway Equipment 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; Side Dump Buckets.

Regional Manager

CALIFORNIA	
Altadena—1808 E. Altadena Dr.	L. W. Brandt
(Continued in next column)	

Wagner Iron Works (Cont'd)**Distributors**

ALASKA	
(Portland)	Independent Distributors
ARIZONA	
(Anaheim)	Allied Equipment Distributors
CALIFORNIA	
Anaheim	Allied Equipment Distributors
Oakland	H. E. Linney Co.
COLORADO	
Denver	McCarty-Sherman Distributing Corp.
IDAHO	
(Portland)	Independent Distributors
(Salt Lake City)	Stan Bonham Co.
MONTANA	
Billings	Seltz Distributing Co.
NEVADA	
(Anaheim)	Allied Equipment Distributors
(Oakland)	H. E. Linney Co.
(Salt Lake City)	Stan Bonham Co.
NEW MEXICO	
(Dallas)	The Southern Plow Co.
OREGON	
Portland	Independent Distributors
(Continued on next page)	
UTAH	
Salt Lake City	Stan Bonham Co.
WASHINGTON	
(Portland)	Independent Distributors
WYOMING	
(Billings)	Seltz Distributing 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
MONTANA	
Dutton	Curtis, Inc.
Havre	Wagner Equipment Co.
OREGON	
Portland	Nelson Equipment Co.

WALLACE SUPPLIES MFG. CO.

1300 West 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; Abrasive Cut-off Wheels.

Distributors

ALASKA	
(Seattle)	Perine Machinery & Supply Co.
ARIZONA	
Phoenix	Machinery Sales Co.
CALIFORNIA	
(Phoenix)	Machinery Sales Co.
IDAHO	
(Portland)	Allied N.W. Machine Tool Corp.
(Seattle)	Perine Machinery & Supply Co.
OREGON (& UTAH)	
Portland	Allied N.W. Machine Tool Corp.
WASHINGTON	
Seattle	Perine Machinery & Supply Co.

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.

Distributors

ALASKA	
Anchorage	Northern Commercial Co.
ARIZONA	
Phoenix	Neil B. McGinnis Equip. 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

Alter Motor Truck (Cont'd)

CALIFORNIA	
Bakersfield.....	San Joaquin Tractor Co.
Los Angeles.....	Shaw Sales & Service Co.
Oakland.....	Cook Bros. Truck & Equipment Co.
Redding.....	Shasta Truck Equipment & Sales
COLORADO	
Denver.....	Power Equipment Co.
Grand Junction.....	Power Equipment Co.
IDAHO	
Boise, Idaho Falls and Twin Falls,	
	Southern Idaho Equipment Co.
Lewiston.....	Henderson Motors, Inc.
NEVADA	
Reno.....	Reno Equipment & Sales Co.
OREGON	
Portland.....	Guthrie Machinery Co.
UTAH	
Salt Lake City.....	Lund Machinery Co.
WASHINGTON	
Seattle.....	Northern Commercial Co.
	Sahlberg Equipment, Inc.
Spokane.....	Ferris Equipment Co.

ARN MANUFACTURING CO., INC.
 18821 Pacific Highway South
 Seattle 88, Washington

PRODUCTS: Selective Drive Hubs for all 4-WD trucks.

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
ONTARIO	
Billings.....	George Pierce, Inc.
	H. C. L. Equipment Co.
Great Falls.....	Robinson Motors
NEW MEXICO	
Albuquerque.....	Timpte 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.....	Critzer Equipment Co.

THE WARNER & SWASEY CO.
 5701 Carnegie Avenue
 Cleveland 3, Ohio

PRODUCTS: Multi-Purpose, All Hydraulic Construction Equipment.

District Managers

CALIFORNIA	
Los Angeles, 3340 Leonis Blvd.....	Robert Bachtel
COLORADO	
Denver, 830 Tucson Ave.....	Ed Sehl
District Representatives	
CALIFORNIA	
San Mateo, 148-D West 37th.....	Troy Sitter
WASHINGTON	
Sumner, Route 1, Box 522.....	Jim Ferguson

Distributors

ALASKA	
Anchorage.....	Bashaw Equipment Co.
ARIZONA	
Phoenix.....	Western Machinery Co.
CALIFORNIA	
Los Angeles.....	Brown-Bevis Industrial Equip. Co.
San Francisco.....	Western Traction Co.
COLORADO	
Denver.....	Liberty Trucks & Parts Co.
HAWAII	
Honolulu.....	U. S. I. International
IDAHO	
(Salt Lake City).....	Arnold Machinery Co., Inc.
ONTARIO	
Billings.....	Western Construction Equipment Co.
NEVADA	
Reno.....	Reno Equipment Sales
(Los Angeles).....	Brown-Bevis-Industrial Equip. Co.

(Continued in next column)

The Warner & Swasey Co. (Cont'd)

NEW MEXICO	
Albuquerque.....	Contractors Equip. & Supply Co.
(El Paso).....	Contractors Equip. & Supply Co.
OREGON	
Portland.....	Feenaughty Machinery Co.
(Salt Lake City).....	Arnold Machinery Co., Inc.
UTAH	
Salt Lake City.....	Arnold Machinery Co., Inc.
WASHINGTON	
Seattle.....	Totem Equipment Co.
Spokane.....	Western Machinery Co.
WYOMING	
(Great Falls).....	Western Construction Equip. Co.

WATER SEALS, INC.
 9 South Clinton Street
 Chicago 6, Illinois

PRODUCTS: Vinyl Plastic Waterstops—labyrinth and flextrip types, for use in concrete construction and contraction joints where watertight structures are required.

Distributors

ALASKA	
(Seattle).....	Charles R. Watts Co.
CALIFORNIA	
Los Angeles.....	Thomas Concrete Accessory Co.
Sunnyvale.....	J. Dan O'Brien
HAWAII	
Honolulu.....	Representative Sales Co.
IDAHO	
(Portland).....	E. W. Zuck
OREGON	
Portland.....	E. W. Zuck
UTAH	
Orem.....	Plasti Spray Co.
WASHINGTON	
Seattle.....	Charles R. Watts Co.
WYOMING	
Casper.....	Casper Concrete Co.

WATSON-CMETCO
 1316-67th Street
 Emeryville 8, California

PRODUCTS: Concrete Bull Floats; Concrete Tampers; Telescoping Vibratory Screeds; Vibratory Screed 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 Findland 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.

(Continued in next column)

H. S. Watson Co. (Cont'd)**District Managers**

CALIFORNIA	
Studio City, 11997 Laurelwood Dr..	P. L. Gas-saway
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 Serv.	
San Diego.....	Win Ward Co.
COLORADO	
Denver.....	Winter-Weiss Co.
IDAHO	
Boise.....	Dyson's 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 to 1300 HP; 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	
Bakersfield.....	Waukesha Motor Co. (Branch)
Emeryville.....	Waukesha Pacific Equipment Co.
Eureka.....	B & S Supply Co.
Ventura.....	Waukesha Motor Co. (Branch)
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
 738 South 10th Avenue
 Wausau, Wisconsin

PRODUCTS: Snow Plows—high speed, trip blade, vee plows, wings; Truckgrader—Ice Blades for trucks, graders and wheel tractors; Spreaders; Electric PumpPacs; Hydra-Clutch Pumps.

Distributors

ALASKA	
(Seattle).....	The Carrington Co.
ARIZONA	
Phoenix.....	Arizona-Cedar Rapids Co.
CALIFORNIA	
Los Angeles.....	Calaver Corporation
San Francisco.....	F. W. D. Pacific Co.
COLORADO	
Denver.....	MacDonald Equipment Co.

(Continued on next page)

C.I.T. Loans on Equipment Fleets increase contractors working capital funds

Wausau Iron Works (Cont'd)

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.

THE WELLMAN ENGINEERING CO.

113 St. Clark Avenue, N.E.
Cleveland 14, Ohio

PRODUCTS: Bridges; Locomotive Cranes; Hydraulic & Air Cylinders.

Distributors

CALIFORNIA
El Monte.....Warnock-Bancroft Equipment Co.
San Francisco.....Coast Equipment Co.

COLORADO
Denver.....Tudor Equipment Co.

OREGON
Eugene.....Interstate Tractor & Equipment Co.
Portland.....Interstate Tractor & Equipment Co.

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

WASHINGTON
Seattle.....Air-Mac, Inc.
Spokane.....Air-Mac, Inc.

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.

COLORADO
Denver, 2150 S. Lipan St... C. F. Rayl, Jr.

OREGON
Portland, 902 S.E. Sherman St.....J. J. Lowe

WESTERN BOILER CO.

1600 North Indiana Street
Los Angeles 63, California

PRODUCTS: Packaged Boilers—forced draft for oil, gas and combination oil-gas firing; Scotch Marine Boilers, high or low pressure.

President.....I. J. Sprott
Vice President and Sales Manager R. W. Winskill

Distributors

ARIZONA
Phoenix.....Combustion Equipment Co.

CALIFORNIA
Fresno.....Muldoon Co., Inc.
Los Angeles.....Fred S. Renaud Co.
San Diego.....County Burner Co.
San Francisco.....Western Boiler Engineers

COLORADO
Denver.....Killam Burner Co.
Longero, Inc.

HAWAII
Honolulu.....Durant-Irvine Co., Ltd.

NEW MEXICO
Albuquerque.....New Mex. Boiler & Welding Co.

OREGON
Portland.....Campbell-Norquist & Co.

UTAH
Salt Lake City.....Grifton & Wilde
Sherman Nabaum Co.
(Continued in next column)

Western Boiler Co. (Cont'd)

WASHINGTON
Seattle.....Lanco, Inc.
Spokane.....Atlas Boiler & Equipment Co.
Tacoma.....Lanco, Inc.
Yakima.....Saar Heating & Engineering Co.

WESTERN CONVEYOR CO.

2801 Warm Springs Avenue
P.O. Box 357
Boise, Idaho

PRODUCTS: SCHROCK Motorized Pulleys; "Hydralign" Hydraulic Take-Ups; "Speed-Weigh" Bin Scales; "Speed-Batch" Plants; Conveyors, mobile and stationary; Cement Silos; "Thermo-Cut" Sprocket Cutting Machines; Custom Built Materials Handling Equipment; Systems Engineering; Systems Purchasing; Systems Construction.

Sales Manager.....H. F. Adams

Distributors

ARIZONA
Phoenix.....Arizona-Cedar Rapids Co.

CALIFORNIA
Bakersfield, Los Angeles, Riverside and San Diego.....Brown-Bevis-Industrial Equip. Co.
Oakland.....Sun Equipment Co.

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

NEW MEXICO
Albuquerque.....Lively Equipment Co.
Carlsbad.....Union Industrial Corporation

OREGON
Eugene.....Eoff Electric Co.
Portland.....Eoff Electric Co.
Feenaughty Machinery Co.
Salem.....Eoff Electric Co.

WASHINGTON
Seattle.....Feenaughty Machinery Co.
Star Machinery Co.
Spokane.....Feenaughty Machinery Co.
Vancouver.....Eoff Electric Co.

WESTERN MACHINERY CO.

650 Fifth Street
San Francisco 7, California

PRODUCTS: Sand Preparation Machines; Sand-clones; Sandsorts; Sand and Gravel Jigs; Sand Pumps; Torqueflow Pumps; HMS Mobile Mills.

District Representatives

ARIZONA
Phoenix, P.O. Box 6472.....W. D. Michaely

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
City of Industry.....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
(Los Angeles).....Smith Booth Usher Co.
(Salt Lake City).....Western Machinery Co.
(San Francisco).....Edward R. Bacon Co.

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.
(Continued in next column)

Western Machinery Co. (Cont'd)

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: Engines—Diesel, Gas, Dual-Fuel.

Factory Branches

ALASKA
Ketchikan, 718 Water St.....Ralph J. Peters

CALIFORNIA
Terminal Island, 1048 S. Seaside....J. A. Flynn

COLORADO
Denver, 817 17th St.....J. D. Stewart

OREGON
Astoria, 131 Seventh St.....E. F. Olson
Portland, 237 S.E. Union Ave.....C. H. Caudy

WASHINGTON
Seattle, Fisherman's Terminal.....Louis A. Gosden

WYOMING
Casper, P.O. Box 413.....W. E. Garrard

Regional Manager — West Coast

CALIFORNIA
Term. Island, 1048 S. Seaside....Lewis L. Livesly

ARIZONA
Phoenix.....Arizona Engine & Pump 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.

COLORADO
Denver.....Rental Machinery Co.
Grand Junction.....S & M Supply Co.

IDAHO
Boise.....Intermountain Equipment Co.

MONTANA
Billings.....Industrial Equipment Co.
Great Falls.....NorMont Equipment Co.

NEVADA
Reno.....Sanford Tractor & Equipment Co.

NEW MEXICO
Albuquerque.....Contractors Equipment Co.

UTAH
Salt Lake City.....Lang Construction Eqpt. Co.

THE WHITE MOTOR CO.

842 East 79th Street
Cleveland 1, Ohio

PRODUCTS: White Motor Trucks, Buses and Crane Carriers, Gasoline and L.P.G.; White Industrial Engines; Autocar Trucks, Gasoline and L.P.G.

Factory Branch Managers

CALIFORNIA
Los Angeles, 400 E. Washington.....H. P. Strothe
San Francisco, 590 Brannan St.....F. H. Ragatz

COLORADO
Denver, 1910 38th St.....R. W. Cochran

OREGON
Portland, 2705 NW Nicolai.....H. D. Collins

Regional Vice President

CALIFORNIA
San Francisco, 590 Brannan St.....W. D. Patterson

ALASKA
Anchorage.....Northland Sales, Inc.
Fairbanks.....Fairbanks Automotive Co.
Juneau.....Christensen Bros. Garage
(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

White Motor Co. (Cont'd)
ALASKA
 Anchorage.....Williston & Ireland
ARIZONA
 Phoenix.....86 Truck Stop
 Cooper's Tractor & Repair Service
CALIFORNIA
 Bakersfield.....Southern Garage
 Burbank.....George Cooper Co.
 El Centro.....Rhyne's Automotive Service
 Eureka.....De Bon Motor Co.
 Fresno.....Fresno Trailer Co.
 Long Beach.....Joe Gill Motor Co.
 Lapa.....Regalia Machine Works
 Oakland.....P. E. Van Pelt, Inc.
 Oakland.....Oakland White Truck Sales
 Ontario.....Cochran & Nichols, Inc.
 Petaluma.....John L. Boitano White Truck Sales
 Redding.....Byrtle'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.
COLORADO
 Colorado Springs.....Vanco Products
IDAHO
 Boise.....Boise White Truck & Eqpt., 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.....Walter's 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 Tractor Co.
 Witham 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.
 Worland.....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 States.

Direct Factory Representative.....John Nolan

Distributors

ALASKA
 Anchorage.....Yukon Equipment Co.

ARIZONA
 Phoenix.....Ariz.-Cedar Rapids Co. (Truck Mixers)
 Tucson.....Bogard GMC Co. (Truck Mixers)

CALIFORNIA
 Bakersfield.....Builders Supply & Equipment Co.
 Berkeley.....Rix-Central Equipment Co.
 West Coast Engine & Eqpt. Co. (Truck Mixers)
 El Centro.....D & M Equipment Co.
 Hayward.....Rix-Central Equipment Co.
 Los Angeles.....Brown-Beris-Industrial Equip. Co.
 Electric Tool & Equipment Co.
 (Continued in next column)

Whiteman Manufacturing Co. (Cont'd)

Garlinghouse, Fremont & Co.
 Gridley Equipment Co.
 Smith Booth Usher Co.
 Porterville.....Porterville Farm Implement Co.
 Redding.....Oaks Sand & Gravel Co. (Truck Mixers)
 Sacramento.....Rix-Central Equipment Co.
 F. B. Hart Arcade Motors Co. (Truck Mixers)
 San Bernardino.....W. K. Equipment Co.
 San Diego.....Kenton Equipment Co.
 San Francisco.....The Rix Co.
 Santa Ana.....Orange County Equipment Co.
 Santa Clara.....Rix-Central Equipment Co.

COLORADO
 Denver.....Constructors Equip. Co. (Truck Mixers)
 Western Machinery Co.

IDAHO
 Boise.....Starline Equipment Co.
 Idaho Falls.....Parkinson Tractor Co.
 Western Machinery Co.
 Pocatello.....Flaherty Mfg. Co. (Truck Mixers)

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 Equip. & Supply Co.
 N. C. Ribble Co. (Truck Mixers)

OREGON
 Portland.....Andrews & Andrews
 Schetky Equipment Corp. (Truck Mixers)

UTAH
 Salt Lake City.....Lund Machinery Co.
 The Lang Co. (Truck Mixers)

WASHINGTON
 Seattle.....Star Machinery Co.
 Schetky Equipment Corp. (Truck Mixers)

WYOMING
 Casper.....Keremi Tractor & Equipment Co.
 Cheyenne.....Keremi Tractor & Equipment Co.

WICKWIRE SPENCER STEEL DIV.
See Colorado Fuel & Iron Corp.

WICO ELECTRIC CO.
Division of Globe-Union, Inc.
P. O. Box 111
West Springfield, Massachusetts

PRODUCTS: Batteries; Magnetos; Small Engines.

Distributors

ALASKA
 Anchorage.....B & C Auto Electric
 Whitehorse.....Moore's Electric Co., Ltd.

ARIZONA
 Phoenix.....C. C. Jones Battery & Electric Co.

CALIFORNIA
 Los Angeles.....Electric Equipment Co.
 San Francisco.....Auto Electric Supply Co.

COLORADO
 Denver.....Spitzer Electrical Co., Inc.

HAWAII
 Honolulu.....Jens Schultz & Co.

IDAHO
 Boise.....Oakley Wholesale, Inc.

MONTANA
 Billings.....Original Equipment, Inc.

NEW MEXICO
 Albuquerque.....Spitzer Electrical Co., Inc.

OREGON
 Portland.....Automotive Products, Inc.

UTAH
 Salt Lake City.....Frank Edwards Co.

WASHINGTON
 Seattle.....Pacific Magneto & Engine Co.
 Spokane.....Sunset Electric Co.

WILLARD CONCRETE MACHINERY SALES CO.
11700 Wright Road
Lynwood, California

PRODUCTS: Transit Truck Mixers; Weigh Batch Loaders (portable); Weigh Batchers; Mixer Loading Conveyors; Cement Silos; Complete Concrete Plants; Special Machinery.
 (Continued in next column)

Willard Concrete Machinery Sales Co. (Cont'd)

Distributors

ALASKA
 Anchorage.....Bashaw Equipment Co.

ARIZONA
 Phoenix.....Arizona Equipment Sales Co.
 Arizona Truck Service & Sales
 Heitel GMC Truck Co.

CALIFORNIA
 Berkeley.....Work Truck Equipment Sales
 Sacramento.....Work Truck Equipment Sales

COLORADO
 Denver.....Accessory Supply Co.

HAWAII
 Honolulu.....Elliott Equipment Co.

MONTANA
 Billings.....Western Construction Equipment Co.
 Great Falls.....Western Construction Equip. Co.

NEVADA
 Reno.....Sierra Machinery Co.

NEW MEXICO
 Hobbs.....Haag Tractor Co.

OREGON
 Medford.....Cal-Ore Machinery Co.

UTAH
 Salt Lake City.....H. H. Neilson Co.

WASHINGTON
 Spokane.....Spokane Machinery Co.

WILLIAMS BUCKET DIVISION
See The Wellman Engineering Co.

PRODUCTS: Buckets, clamshell and dragline; Demolition Tools; Dredging Equipment; Grapples

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.....K. S. Moyer

COLORADO
 Denver, 3855 Forest St.....P. J. Noonan

Distributors

ARIZONA
 Phoenix.....Ray Korte

MONTANA
 Billings.....George R. Pierce, Inc.
 Great Falls.....Robinson Motor Co.

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; Custom Made Slings.

Factory Branch Managers

CALIFORNIA
 Los Angeles, 1018 S. Santa Fe Ave.....N. Shabaz
 San Francisco, 370 - 10th St.....Clyde E. Karch

COLORADO
 Denver, 3649 E. 40th Ave.....Wally Ullrich

OREGON
 Portland, 2221 N.W. 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.

CALIFORNIA
 Emeryville.....E. E. Richter & Son, Inc.
 Los Angeles.....Continental Sales & Service Co.

COLORADO
 Denver.....Central Equipment Co.
 (Continued on next page)

C.I.T.'s Pay-As-You-Depreciate Plan provides long term financing for equipment purchases

Wisconsin Motor Corp. (Cont'd)

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.
Spokane.....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
Long Beach.....Equipment Service Co.

COLORADO
Denver.....McCoy Co.
Pueblo.....Johnson Electric Co.

HAWAII
Honolulu.....Von Hamm-Young Co., Ltd.

MONTANA
Billings.....Holeman GM Diesel, Inc.
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 Elec. Service & Sup. Co.

WASHINGTON
Clearwater.....Megorden Machinery Co.
Seattle.....N C, Marine Div.

WONDER BUILDING CORP. OF AMERICA
30 North La Salle Street
Chicago 2, Illinois

PRODUCTS: Pre-Engineered Steel Buildings.

FRANCHISED DISTRIBUTORS THROUGHOUT THE U.S.

Concrete Mch. & Contractors Pump Dept.
Plainfield Division
South Second Street
Plainfield, New Jersey

PRODUCTS: Concrete Agitators; Concrete Mixers; Truck Mixers; Tunnel Mixers; Tunnel Agitators; Pneumatic Placers; Pavers; Contractors' Pumps.

WORTHINGTON CORPORATION
Portable Compressor & Air Tool Dept.
Holyoke Division
Holyoke, Massachusetts
(Continued in next column)

Worthington Corporation (Cont'd)

PRODUCTS: Compressors; Air Tools; Backfill Tampers; Triplex Tampers; Clay Diggers; Paving Breakers; Rock Drills; Wagon Drills; Self-Propelled Crawler Drills; Air Operated Sump Pumps.

District Office Managers

CALIFORNIA
Los Angeles—
5075 Santa Fe Ave.....E. W. Hammond
San Francisco, 224 Townsend St.....W. A. Fine

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...G. H. Allen

WASHINGTON
Seattle, 2616 Western Ave.....C. W. Croney

Distributors

ALASKA
Anchorage.....Bashaw Equipment Co.

ARIZONA
Phoenix.....Southwest Equipment Co.
Tucson.....State Tractor & Equipment Co.

CALIFORNIA
Arcata.....Humboldt Machine Works
Bakersfield.....Inland Equipment Co.
Los Angeles.....Essick Machinery 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 Traction Co.

COLORADO
Denver.....Power Rental Equipment Co.

IDAHO
Boise.....G. K. Machinery Co.

MONTANA
Missoula.....Miller Machinery Co.

NEVADA
Reno.....Sanford Tractor & Eqpt. Co.

WORTHINGTON CORPORATION

NEW MEXICO
Albuquerque.....Big Three Welding Supply Co.
Construction Machinery Co.
New Mexico Equipment Co.

Farmington.....Big Three Welding Supply Co.

OREGON
Eugene.....Western Equipment Co.
Portland.....Western Equipment Co.

UTAH
Salt Lake City.....Rocky Mountain Machinery Co.

WASHINGTON
Seattle.....Star Machinery Co.
Spokane.....Mid-Mountain Machinery Co.

YALE & TOWNE MFG. CO.
Trojan Division
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 Eqpt. & Supply Co.

ARIZONA
Phoenix.....Superior Equipment Co.
Branch.....Tucson

CALIFORNIA
Los Angeles.....Garlinghouse, Fremont & Co.
Oakland.....Cook Bros.

COLORADO
Denver.....Tudor Equipment Co.

IDAHO
Pocatello.....Intermountain Eqpt. Co.

NEVADA
Las Vegas.....Inland Service & Supply Co.
Reno.....Sierra Machinery Co.

NEW MEXICO
Albuquerque.....Contractors Eqpt. & Supply Co.

OREGON
Portland.....Clyde Equipment Co.

UTAH
Salt Lake City.....Western Machinery Co.

WASHINGTON
Seattle.....Clyde Equipment Co.
Spokane.....Inland Diesel & Machinery Co.
(Continued in next column)

Yale & Towne Mfg. Co. (Cont'd)

WYOMING
Salt Lake City.....Western Machinery Co.

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.

YOUNG IRON WORKS
2959 First Avenue South
Seattle 4, Washington

PRODUCTS: Grapples; Dragline Buckets; Backhoe Units; Dozer Teeth.

Factory Branch Manager

OREGON
Eugene, 188 Blair Blvd.....E. E. Weigant

YUBA CONSOLIDATED INDUSTRIES, INC.
1 Bush Street
San Francisco 4, California

PRODUCTS: Judson Pacific-Murphy Division, 4300 Eastshore Highway, Emeryville 8, Calif.—Bridges; Buildings; Structural Steel Fabrication.
Western Rolling Mills Division, Rt. 2, Box 498, Tempe, Ariz.—Structural Steel; Reinforcing and Merchant Bars.
Yuba Manufacturing Division, 675 East "H" Street, Benicia, Calif.—Chemical Plant, Oil Refinery and Hydroelectric Equipment; Cranes; Gates and Guides; Trash Racks and Rakes; Hoists; Dredges; Butterfly Valves; Screens; Jigs; Corrugated Culvert Pipe; Heavy Plate Fabrication.
Yuba Consolidated Erectors, Inc. (a subsidiary) 1 Bush Street, San Francisco 4, Calif.—All types of field erection.

ZIEGLER STEEL SERVICE CORP.
7022 Bandini Boulevard
Los Angeles 22, California

PRODUCTS: Airport Runway Road Forms; Airport Runway Dowel Pins; Structural Plate; Bridge Flooring; Steel Grating and Floor Armoring.

Distributors

HAWAII
Honolulu.....Lee H. Burke

NEW MEXICO
Albuquerque.....Morris Steel & Aluminum Co.

OREGON
Portland.....Kilpatrick, Inc.

UTAH
Salt Lake City.....John Gross Co.

WASHINGTON
Seattle.....Charles J. Roberts

ZUMAR INDUSTRIES
2828 Stanford Avenue
Los Angeles 11, 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 & Aluminum Reflectorized Highway Traffic

Distributors

Write for name of your nearest dealer.

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
Northern Life Tower, Seattle

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

DISTRIBUTOR'S 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
ARIZONA	4
CALIFORNIA	9
COLORADO	33
HAWAII	37
IDAHO	39
MONTANA	43
NEVADA	46
NEW MEXICO	50
OREGON	52
UTAH	58
WASHINGTON	62
WYOMING	73

WESTERN

CONSTRUCTION

BASHAW EQUIPMENT CO., INC. ANCHORAGE
P.O. Box 1999 PH: BR 8-8703; BR 5-9045

President.....Calvin F. Bashaw Sales Manager..Walter F. Reynolds
Parts Manager....H. W. Hancock Service Manager....Louis Fessler

LINES HANDLED

Beebe Bros.
Bethlehem Steel Corp.
E. D. Bullard Co.
Clark Equipment Co. —
Construction Mch. Div.
Industrial Truck Div.
Clyde Iron Works
Electric Steel Foundry
Hensley Equipment Co.
Jay Company
Murphy Diesel Co.
Noble Company
Northwest Engineering Co.

The Oliver Corp.
Owatonna Tool Co.
Pitman Manufacturing Co.
Sauerman Bros., Inc.
Smith Engineering Works
Stow Manufacturing Co.
Talbert Trailers, Inc.
Tampo Manufacturing Co.
Warner & Swasey Co. —
Badger Division
Gradall Division
Worthington Corp.

THE CARRINGTON CO (Branch) ANCHORAGE
420 Post Road PH: BR 6-2791

VP & Manager...G. A. Gustafson Sales.....Robt. O. Baum

SEE MAIN OFFICE LISTING UNDER SEATTLE

CRAIG TAYLOR EQUIPMENT & SUPPLY CO. ANCHORAGE
322 Concrete Avenue PH: BR 6-5815

Pres. and Mgr.....Craig Taylor Sales Manager.....Art Melickian
Parts Manager.....Mike Webber Service Manager.....H. R. Miller

BRANCH OFFICE

Fairbanks ARR Industrial Area Jack Richardson PH: 5555

LINES HANDLED

Alloy Steel & Metals Co.
American Rubber Mfg. Co.
Atlas-Copco
Brunner & Lay, Inc.
Cataphote Corp.
Champion Manufacturing Co.
Charles Machine Works
Columbia Steel Casting Co.
The Conveyor Co.
John Deere Co. —

Marlow Pumps
Master Vibrator Co.
McCaffrey-Ruddock Tagline Corp.
Metal Forms Corp.
Motorborr-Pionjar Drills
Morse-Starrett Products
Muller Machinery Co.
Page Engineering Co.
Pacific Wire Works
Rust-Oleum Corp.

(Continued in next column)

Craig Taylor Equipment & Supply (Cont'd)

Agricultural & Industrial
Equipment
Deutz Diesel Engines
Earle M. Jorgensen Co.
Flaherty Manufacturing Co.
Flexible Steel Lacing Co.
Flygt Pumps
Good Roads Machinery Co.
Hasselbalch & Sons
Hayward Company
Hiab Cranes
Hose Accessories Co.
Huber-Warco Co.
Link-Belt Speeder Corp.

Sam Mulkey Co.
Sargent Engineering, Inc.
Standard Steel Corp.
Standard Steel Works
Templeton, Kenly & Co.
Transport Trailers, Inc.
Vibro-Plus Products, Inc.
Winslow Govt. Std. Scale Works
Wire Rope Corp. of America
Wright Power Saw & Tool Corp.
Wylie Manufacturing Co.
Yale & Towne Mfg. Co. —
Trojan Div.
Young Iron Works

EVANS ENGINE & EQUIPMENT CO. (Branch) ANCHORAGE
Post Road, P.O. Box 894 PH: BR 6-5795

ManagerClark Collier

SEE MAIN OFFICE LISTING UNDER SEATTLE

NORTHERN COMMERCIAL CO. (Branch) ANCHORAGE
PH: BR 7-7351

Manager.....Gragg Gilkey

SEE MAIN LISTING UNDER SEATTLE IN ALASKA SECTION

NORTHERN SUPPLY, INC. ANCHORAGE
400 Post Road PH: BR 6-4151

Pres. & Mgr.H. A. Faroe Sales Manager ...Henry J. Hickey

LINES HANDLED

Air Reduction Pacific Co.
Alemite Co.
American Brass Co.
American Hoist & Derrick Co.
American Optical Co.
O. Ames Co.
Apex Machine Tool Co.
Ampco Metal Co.
Atlas Powder Co.
Atlas Press Co.
Baystate Abrasive Products
Binney-Smith International
Blackhawk Mfg. Co.
Boice Crane Co.
Brown & Sharpe

Hirsch-Weis Products Co.
Indestro Manufacturing Co.
Jacobs Manufacturing Co.
Jeffery Manufacturing Co.
Kennedy Manufacturing Co.
Ker-O-Kil Manufacturing Co.
Keuffel & Esser
Mathias Klein & Sons
Liddicoat Bits & Steel
Master Rule Co.
Mephisto Tool Co.
Milwaukee Tool Corp.
Mine Safety Appliances
Minnesota Mining & Mfg. Co.
National Twist Drill Co.

(Continued on next page)

NORTHERN SUPPLY, INC.

WHOLESALE



ELECTRICAL SUPPLIES • FINE TOOLS • INDUSTRIAL AND MINING SUPPLIES

400 POST ROAD

P.O. BOX 439

ANCHORAGE, ALASKA

PHONE BR 6-4151



C. I. T. CORPORATION

120 Montgomery Street, San Francisco
Northern Life Tower, Seattle

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

Northern Supply, Inc. (Cont'd)

Buckingham Tool Pouches
Buffalo Sanitary Wipers
Burgess Battery Co.
Campbell Chain
Central Screw Co.
Champion DeArment Co.
Chesterton Packing Co.
Coffing Hoist Co.
Collins Axe & Tool
Colorado Fuel & Iron Corp.
Crosby-Laughlin Div.
Dayton Rubber Co.
R & J Dick Co.
Dixon Valve & Coupling Co.
Duff-Norton Co.
Eimco Corp.
ESCO Steel Co.
Federated Metals
Flexco Belt Lacing
John Flocker Co.
Gardner-Denver Co.
General Hardware Co.
General Petroleum Corp.
Goodall Rubber Co.
Greenlee Tool Co.
Heller Brothers Co.
Hewitt-Robins Co.

Nordberg Manufacturing Co.
P & H Company
Pal-Weld Manufacturing Co.
Permatex Corp.
Red Devil Manufacturing Co.
Reed Manufacturing Co.
Rice Pump Co.
Ridge Tool Co.
Sequatchie Handle Works
Simonsen Industries
Skil Tool Corp.
Star Expansion Co.
L. S. Starrett Co.
Syntrol Corp.
Timken Roller Bearing Co.
Tokheim Corp.
Union Taps & Dies
U. S. Rubber Co.
Victor Equipment Co.
Vincent Tool Co.
Vulcan Tool Mfg. Co.
Wagner-Lockheed Auto. Eqpt.
Warren Axe & Tool Co.
Westinghouse Electric Corp.
Whittaker Cable Corp.
Winter Brothers

STERN TRACTOR & EQUIPMENT CO. (Branch).....ANCHORAGE
P.O. Box 2032 PH: BR 6-9801

Manager.....Henry Sandstrom

SEE MAIN OFFICE LISTING & ADV. UNDER SEATTLE

KON EQUIPMENT, INC. (Branch).....ANCHORAGE
P.O. Box 1539 PH: 25101

Manager.....Glen D. Chambers

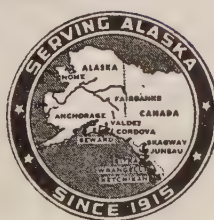
SEE MAIN OFFICE LISTING UNDER SEATTLE

CARRINGTON CO. (Branch).....FAIRBANKS
112 North Turner Street PH: 2181

Vice President....G. A. Gustafson Manager.....V. P. Guzzardi

SEE MAIN OFFICE LISTING UNDER SEATTLE

Contractors, Mining, Logging and Industrial Equipment and Supplies



SEE OUR LISTING PAGE 63 UNDER SEATTLE, WASH.

ALASKA DISTRIBUTORS
OF NATIONALLY KNOWN LINES

THE CARRINGTON COMPANY

91 Columbia Street • MAin 2-0804 • Seattle 4, Washington
Branches
ANCHORAGE—Phone BR 6-2791 FAIRBANKS—Phone 2181
KETCHIKAN—CA 5-4516

CRAIG TAYLOR EQUIPMENT CO. (Branch).....Fairbanks
ARR Industrial Area PH: 5555

Manager.....Jack Richardson

SEE MAIN OFFICE LISTING UNDER ANCHORAGE

NORTHERN COMMERCIAL CO. (Branch).....FAIRBANKS
PH: 7711

Manager.....John Mues

SEE MAIN LISTING UNDER SEATTLE IN ALASKA SECTION

WESTERN TRACTOR & EQUIPMENT CO. (Branch).....FAIRBANKS
P.O. Box 407 PH: 4414

Manager.....Robert H. Kelly

SEE MAIN OFFICE LISTING & ADV. UNDER SEATTLE

YUKON EQUIPMENT, INC. (Branch).....FAIRBANKS
320-2nd Avenue PH: 2135

Manager.....Alfred J. Lomen

SEE MAIN OFFICE LISTING UNDER SEATTLE

NORTHERN COMMERCIAL CO. (Branch).....JUNEAU
PH: 6-2560

Manager.....Elwyn Pym

SEE MAIN LISTING UNDER SEATTLE IN ALASKA SECTION

NORTHERN COMMERCIAL CO. (Branch).....KETCHIKAN
PH: 2034

Manager.....D. J. McDonald

SEE MAIN LISTING UNDER SEATTLE IN ALASKA SECTION

SERVING ALL OF ALASKA



Branches

Anchorage — Fairbanks
327 Colman Bldg., Seattle

See our listing on Page 68
under Seattle, Wash.

for

Construction — Mining
Logging — Equipment &
Supplies

**C.I.T. Loans on Equipment Fleets increase contractors
working capital funds**

NORTHERN COMMERCIAL CO. (Machinery Division).....SEATTLE
4233 W. Marginal Way PH: WE 7-3300

President.....V. Richmond, Jr.
Sales Manager.....W. M. Bell
Engine Sls. Mgr.....E. Erickson
Parts Manager.....Ed V. Arbak

Vice President.....H. D. Stephens
Mgr.—Mchy. Div....Trumna Sage
Service Mgr.....John R. Heggem

BRANCH OFFICES

Anchorage	Gragg Gilkey	Manager	PH: BR 7-7351
Fairbanks	John Mues	Manager	PH: 7711
Juneau	Elwyn Pym	Manager	PH: 6-2560
Ketchikan	D. J. McDonald	Manager	PH: 2034
Whitehorse	Kenneth Mead	Manager	PH: 6515

LINES HANDLED

American Air Filter Co. — Herman Nelson Div. Athey Products Corp. Balderson, Inc. Blackhawk Manufacturing Co. Broderick & Bascom Rope Co. Bucyrus-Erie Co. Caterpillar Tractor Co. Chain Belt Co. Chrysler Marine & Industrial Engine Div. Clayton Manufacturing Co. DeWalt Division Dotmar Industries, Inc. Essick Manufacturing Co. Fleco Corporation General Electric Co. Goodyear Tire & Rubber Co.	W. E. Grace Mfg. Co. Hyster Company Joy Manufacturing Co. LaCrosse Trailer Co. Lincoln Electric Co. Linde Air Products Co. Martin Trailer Div., Hyster Co. McCulloch Corporation Norseman Electric Plants Pioneer Engineering Works Preco, Inc. Ramset Fasteners, Inc. Sauerman Bros., Inc. Skagit Steel & Iron Works Stoody Company White Manufacturing Co. Wisconsin Motor Corp. Witte Engine Works
--	--

Your Alaska CATERPILLAR®

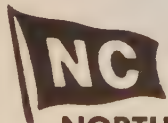
and ALLIED LINES DEALER

SALES PARTS SERVICE

also for

Broderick & Bascom	Goodyear	Pioneer
Bucyrus-Erie	Grace	Ramset
Chrysler	Joy	Skagit
De Walt	Lincoln	Stoody
Essick	Linde	Wisconsin
General Electric	McCulloch	Witte

and other lines



NORTHERN COMMERCIAL CO.

Machinery Division

**ANCHORAGE • FAIRBANKS • JUNEAU
KETCHIKAN — WHITEHORSE**

Seattle Headquarters 4233 W. Marginal Way

**Good distributors seek
equipment lines buyers want—**

**Consistent advertising in
WESTERN CONSTRUCTION
builds buyer acceptance
and demand!**

ARIZONA

CUMMINS ARIZONA DIESEL, INC. (Branch).....FLAGSTAFF
Junction Hiway 66 and 89 PH: PR 4-2591

Manager.....Mike Hayes

SEE MAIN OFFICE LISTING UNDER PHOENIX

EMPIRE MACHINERY CO. (Branch).....FLAGSTAFF
24 S. Beaver Street PH: 421

Manager.....Ed D. Mays

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President.....L. E. Agnetti VP & Manager.....Sam Tobias
Sales Manager.....Robt. B. Tobias Service Manager.....Edgar L. Brown
Parts Manager.....Donald Radon

BRANCH OFFICES

Delano 305 High St. Ray Gabriel PH: 2531
Wasco 820 Formosa Hwy. Jake Siemens PH: PL 8-2127

LINES HANDLED

Allis-Chalmers Mfg. Co. Henry Manufacturing Co.
Ateco Sales Corp. Insley Manufacturing Co.
Be-Ge Manufacturing Co. John Bean Division
Food Machinery Chem. Corp. Kwik-Mix Co.
Gar Wood Industries, Inc. Roebling Wire Rope Co.

HAWKINS & HAWKINS CO., INC......BERKELEY
1255 East Shore Highway PH: LA 5-8500

Pres.N. L. Hawkins, Sr. ManagerN. L. Hawkins, Jr.
Sales Manager ...K. H. Springer Sign Foreman ...T. B. Hammock

BRANCH OFFICES

Los Angeles P.O. Box 41047 Jack Miller PH: CL 7-3903
Denver (Colo.) 1018 Lawrence Lloyd S. Reed PH: TA 5-3218

LINES HANDLED

Centerlite Reflective Compound Minnesota Mining & Mfg. Co.
Denominator Manual Traffic Neo Flashers
Counters Red Devil Tools
Dur-O-Line Pavement Markers Robbins "Vinyline"
Highway Guard Rails Steel Channel U-Posts
K-HH1-Auto. Traffic Counters Stonehouse Signs, Inc.
Light Products, Inc. Traffic Safety Cone Corp.
Marbelite Traffic Signals Western Progress, Inc.
Westline Safety Signs

RIX-CENTRAL EQUIPMENT CO. (Branch).....BERKELEY
1230 Sixth Street PH: LA 6-5061

ManagerLin Pearson

SEE MAIN OFFICE LISTING UNDER SAN FRANCISCO

WEST COAST ENGINE & EQUIPMENT CO......BERKELEY
1081 Eastshore Highway PH: LA 5-2261

President & Mgr....M. C. Wright Vice President.....V. C. Genn
Sales Manager.....Everett Bainbridge Parts Manager.....Chas. Fiske
Service Mgr.....Mark Heath

BRANCH OFFICES

Sacramento 8350 Jackson Rd. Henry Starr PH: EM 3-5950
(Perkins) Chas. Antone PH: CY 7-2130
San Jose 451 Queens Lane Vic Meredith PH: HO 2-8831
Ukiah 1146 South Hwy.

LINES HANDLED

Acme Iron Works Heltzel Steel Form & Iron Co.
Allis-Chalmers Mfg. Co. Torcon Converters
Bucyrus Erie Co. Transport Trailers, Inc.
Chrysler Corp. Vibro-Plus Products
Grace Mfg. Co. Whiteman Truck Mixers
Flexible Road Joint Machine Co.

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working capital funds**

HONNEN MACHINERY CO. BLYTHE
 W. Hobsonway PH: 3591 and 4451

 Pres. & Mgr. Hugh H. Honnen Vice President... Dorothy Honnen
 Sales Manager.... Warren Buzzard Parts Manager..... Leo Condosta
 Service Manager..... Don Hodge

LINES HANDLED

American Tractor Eqpt. Co.	Gurries Manufacturing Co.
Athey Products Corp.	Hardie Manufacturing Co.
Balderson Manufacturing Co.	Hensley Products
Be-Ge Manufacturing Co.	Hyster Company
Caterpillar Tractor Co.	Leschen Wire Rope Co.
Construction Machinery Corp.	Martin Trailer Co.
John Deere Co.	Pacific Wire Rope Co.
Essick Manufacturing Co.	Ulrich Products Co.
Fleco Manufacturing Co.	

FAURE TRACTOR & EQUIPMENT CO. (Branch) BRAWLEY
 210 W. Main Street PH: FI 4-4910

Manager..... John Schmitt

SEE MAIN OFFICE LISTING UNDER EL CENTRO

KENTON EQUIPMENT CO. (Branch) CARLSBAD
 2530 State Street PH: PA 9-3188

Manager..... Ken W. Rowell

SEE MAIN OFFICE LISTING UNDER SAN DIEGO

PETERSON TRACTOR CO. (Branch) CHICO
 Highway 99 E. South PH: FI 3-1911

Manager..... Bill Doyle

SEE MAIN OFFICE LISTING UNDER SAN LEANDRO

SMITH BOOTH USHER CO. CITY OF INDUSTRY
 2200 S. San Gabriel River Pkwy. PH: RA 3-9691

Manager..... A. W. Ginther	Sales Manager..... J. W. Savage
Parts Manager..... A. S. Leedham	Plant Manager..... Art Davidson

BRANCH OFFICE

San Diego 3644 Main St. E. C. Farewell PH: BE 4-4615

LINES HANDLED

Air Placement Equipment Co.	Morse-Starrett Products Co.
Austin-Western	L. R. Murphy Co.
Baldwin-Lima-Hamilton Corp.	Noble Company
Boomsnub Co.	Ottawa Steel Div.—Young
Broderick & Bascomb Rope Co.	Spring & Wire Corp.
Cleveland Trencher Co.	Pitman Manufacturing Co.
Erie Strayer Co.	Quincy Compressor Co.
Gar-Bro Manufacturing Co.	Salem Tool Co.
Good Roads Machinery Co.	Sanstorm Manufacturing Co.
Hendrix Manufacturing Co.	Sasgen Derrick Co.
The Jaeger Machine Co.	Sauerman Bros., Inc.
Jones Superior Machine Co.	Sicard, Inc.
Jos. F. Kiesler Co.	Skagit Steel & Iron Works
Littleford Bros., Inc.	Tampo Manufacturing Co.
M. P. McCaffrey, Inc.	Thor Power Tool Co.
Massey-Ferguson, Inc.	Timken Roller Bearing Co.
Michigan (Clark Equip. Co.)	Western Machinery Co.
Mixermobile Manufacturers, Inc.	Winslow Govt. Std. Scale Works

JOHNSON TRACTOR CO. (Branch) COACHELLA
 Highway 99 PH: EX 8-4891

Manager..... Don Smith

SEE MAIN OFFICE LISTING UNDER RIVERSIDE

CONDOSTA TRACTOR CO. COLTON
 P.O. Box 351 PH: TA 5-1066

Owner..... Sam Condosta	Manager..... G. F. Barleman
Parts Manager..... A. J. Anderson	Service Manager... John E. Butler

LINES HANDLED

A. C. Anderson, Inc.	Hydraulic Tool & Eqpt. Co.
American Tractor & Eqpt. Co.	The Oliver Corp.
Be-Ge Manufacturing Co.	(Transfer Point)
Henry Manufacturing Co.	Ware Machine Works

I. G. ZUMWALT CO. COLUSA
 850 Market Street PH: GL 8-2135

Pres. & Mgr. Geo. R. Zumwalt	Vice President.... Ivy G. Zumwalt
Sales Manager... Geo. R. Zumwalt	Parts Manager A. L. Braly
Service Manager E. H. Borgna	

BRANCH OFFICES

Orland	603 - 6th St.	H. J. Southard	PH: UN 5-3410
Willows	311 N. Butte St.	Leo J. Riley	PH: WE 4-5427

LINES HANDLED

Alemite Company	Goodyear Tire & Rubber Co.
American Bosch Co.	Hyster Company
Athey Products Corp.	John Beam 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: WY 2-2922

Manager Bill Devin

SEE MAIN OFFICE LISTING UNDER HANFORD

BRIZARD-MATTHEWS MACHINERY CO. (Branch) CRESCENT CITY
 Northcrest PH: IN 4-2126

Manager Jack Nicholson

SEE MAIN OFFICE LISTING UNDER EUREKA

DAVIES MACHINERY CO. (Branch) DELANO
 310 High Street PH: 3841

Manager..... H. McNeil

SEE MAIN OFFICE LISTING UNDER HANFORD

SAN JOAQUIN TRACTOR CO. (Branch) DELANO
 305 High Street PH: 2531

Manager..... Ray Gabriel

SEE MAIN OFFICE LISTING UNDER BAKERSFIELD

WEAVER TRACTOR CO. (Branch) DIXON
 793 N. 1st Street PH: OS 8-2395

Manager..... Glen Garner

SEE MAIN OFFICE LISTING UNDER SACRAMENTO

KROEGER EQUIPMENT CO. EL CAJON
 1655 N. Magnolia Avenue PH: HI 2-4455

Owner & Mgr. J. H. Kroeger	Parts Manager..... Jim Phillips
Asst. Manager..... Wm. Kroeger	Service Manager.... Clark Griffin
Rental Dept. Mgr. Robert Kroeger	

LINES HANDLED

Briggs & Stratton	Remington (Power Tool Div.)
Brunner & Lay, Inc.	Rosco Manufacturing Co.
Dixon Valve & Coupling Co.	Roto-Sonic
Ground Hog	Schramm, Inc.
Minneapolis-Moline Co.	Skil Corp.
Muller Machinery Co.	Winpower Mfg. Co.
Quincy Compressor Co.	

FAURE TRACTOR & EQUIPMENT CO. EL CENTRO
 1414 W. Main Street PH: EL 2-2241

Pres. & Mgr. Emile Faure	Vice President..... Carol Faure
Sales Manager..... Bill Jopes	Parts Manager... Homer Chambers
Service Manager.. George Martinez	

BRANCH OFFICE

Brawley	210 W. Main St.	John Schmitt	PH: FI 4-4910
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LINES HANDLED

Athey Products Corp.	Hyster Corp.
Caterpillar Tractor Co.	John Deere Co.

TOOL EQUIPMENT RENTAL, INC. EL CERRITO
 10794 San Pablo Avenue PH: LA 4-3835

Chairman of Board	Pres. & Mgr. L. T. Halcomb
of Directors..... Ray D. Smith	Parts Manager..... H. Clark
Service Mgr. Dick Wilshusen	Sales Manager.... Chas. Tompkins

(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

Equipment Rental (Cont'd)

LINES HANDLED

Climax Engines
Fairbanks Morse Pumps &
Generators
Kohler Lite Plants

Manitowoc Engine Corp.
M. P. McCaffrey, Inc.
Schramm Compressors
White Manufacturing Co.

WARNOCK-BANCROFT EQUIPMENT CO. S. EL MONTE
9635 Rush Street PH: GI 4-4569; CU 3-8224

President.....W. S. Warnock Vice President....W. Z. Bancroft
Asst. Sls. Mgr.....M. R. Howard Parts Manager....R. L. Coursey
Service Manager.....J. D. Osborn

LINES HANDLED

Aeroil Products Co.
Galion Iron Works & Mfg. Co.
Gar Wood Ind., Inc. (Findlay)
GripHoist, Inc.
Joy Manufacturing Co.
Link-Belt Speeder Corp.

Macwhyte Company
Marquette Mfg. Co.
Miller Swivel Products
Municipal Supply Co.
Thor Power Tool Co.
Wellman Engineering Co.

WARNOCK-BANCROFT EQUIPMENT COMPANY

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E. RICHTER & SON, INC. EMERYVILLE
6598 Hollis Street PH: OL 8-1100

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Sales.....A. L. Howard Asst. Manager.....J. H. Sones
Parts Manager.....R. Theobald

LINES HANDLED

Fluo-Matic Torque Converters
Gill Spark Arresters
Hopkins Exhaust Systems

Lipe-Rollway Clutches
Western Electric Tachometers
Wisconsin Air-Cooled Engines

KINS TRACTOR CO. EUREKA
2016 Broadway, P.O. Box 41 PH: HI 2-2986

Pres. & Mgr.....E. L. Aikins VP & Sls. Mgr.....S. E. Aikins
Parts Manager...Chas. Shackelton Service Manager....Jim Gibbons

LINES HANDLED

Cushman Scooters
Filtex Vacuum Systems
Hall Kar-Jig
Maxon Power Tailgates

Used Tractors, Logging Equip.
Vespa Scooters
Watson Power Tailgates

BRIZARD-MATTHEWS MACHINERY CO. EUREKA
3990 Broadway PH: HI 3-1653

President....R. W. Matthews, Sr. Vice Pres.....R. W. Matthews, Jr.
Sales Manager.....John Arnett Parts Manager..Elvis Offenbacher
Service Manager....Orval Wallace

BRANCH OFFICES

Arcata 1219 11th St. Anthony Borges PH: VA 2-2468
Crescent City Northcrest Jack Nicholson PH: IN 4-2126

LINES HANDLED

American Tractor & Eqpt. Co.
Athey Products Corp.
Caterpillar Tractor Co.
C & D Manufacturing Co.
Ferguson Tractors
Fleco Corp.
Gould Pumps
Hyster Corp.
John Bean Fire Engines
John Deere Plow Co.

Martin Machine Co.
Northwest Engineering Co.
Pacific Pumps
Peerless Pumps
Preco, Inc.
Rainbird Sales & Engineering
Rome Plow Co.
Skagit Corp.
Shur-Rane Irrigation Systems
Ulrich Products, Inc.

HOWARD-COOPER CORP. (Branch) EUREKA
Highway 101 North PH: HI 2-6477

Manager.....Willard Bona
SEE MAIN OFFICE LISTING UNDER PORTLAND, OREGON

TRINITY TRACTOR CO. EUREKA
3408 Jacobs Avenue PH: HI 3-5041

President.....G. A. Lucas VP & Manager.....R. L. Davis
Parts Manager.....R. E. Gillen Sales Manager.....G. A. Lucas
Shop Foreman.....Harlin T. Hill Service Mgr.....J. D. Warkentin

LINES HANDLED

Allis-Chalmers Mfg. Co.
Insley Manufacturing Co.
Malsbary Manufacturing Co.
D. W. Onan & Sons, Inc.

John A. Roebing's Sons Corp.
Schield-Bantam Co.
Wagner Tractor, Inc.

BUDD & QUINN, INC. (Branch) FIREBAUGH
Highway 33 at 14th PH: OL 9-2117

Manager.....Dave Troup

SEE MAIN OFFICE LISTING UNDER FRESNO

ALLIED EQUIPMENT CO. (Branch) FIVE POINTS
Lassen Avenue South PH: UN 6-5939

Manager.....Fred McMurrin

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WEAVER TRACTOR CO. (Branch) FRESH POND
Gen. Del., Pollock Pines PH: NI 4-2325

Manager.....John Butler

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ALLIED EQUIPMENT CO. FRESNO
1824 Santa Clara PH: AM 6-0441

President.....Floyd A. Boyd VP & Sls. Mgr.....E. A. Ricks
Parts Manager....H. J. McKenna Service Mgr.....E. A. Smith

BRANCH OFFICES

Five Points Lassen Ave. So. Fred McMurrin PH: UN 6-5939
Madera Hwy. 99 So. Gordon Tucker PH: OR 4-2481
Reedley 1230 G St. Bud Callison PH: ME 8-2210
Tranquility McKaney St. Bill Kinney PH: San Joaquin 5131

LINES HANDLED

Allen Industrial Products
Be-Ge Manufacturing Co.
Drott Manufacturing Co.
The Elgin Corp.
The Galion Iron Works
Frank G. Hough Co.
Harnischfeger Corp.

Ingersoll-Rand Co.
International Harvester Co.
A. Leschen & Son Rope Co.
Pacific Car & Foundry Co.
The Ready-Power Co.
Superior Equipment Co.
Tracto-Lift Co.

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EDWARD R. BACON CO. (Branch) FRESNO
2644 S. Railroad Avenue PH: AD 3-0161

Office Mgr.....P. M. Hamm

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John Deere 1560 H Street

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and Treasurer.....J. A. Quinn
Sales Manager.....J. H. Parrish
Service Mgr.....Lester Scarbery

BRANCH OFFICES

Firebaugh Hwy. 33 at 14th Dave Troup PH: OL 9-2117
Madera 6th & S. D St. Arthur Frank PH: OR 4-7991
Reedley 1800 8th St. D. Patzkowski PH: ME 8-2294

LINES HANDLED

Athey Products Corp. Hyster Company
Caterpillar Tractor Co. Killefer Deep Tillage Tools
John Deere (Full Line) Preco, Inc.
Fleco Corp.

CONTRACTORS EQUIPMENT & SUPPLY CO......**FRESNO**
1143 C Street PH: AD 7-1153

Pres. & Mgr.....Wm. H. Decker Vice President.....N. Volanti
Parts Manager.....Wm. D. Decker Service Mgr.....Wm. D. Decker

LINES HANDLED

American Sisakraft Co. Insley Manufacturing Co.
Brunner & Lay Co. Pacific-Mercury Co.
Carborundum Co. Quincy Compressor Co.
Champion Mfg. Co. John A. Roebeling's Sons Corp.
Chicago Pneumatic Tool Co. L. M. Scofield Co.
Con-Cut Co. Schield Bantam Co.
Essick Manufacturing Co. W. B. Snook Co.
Electric Steel Foundry Co. Sta-Crete, Inc.
Goodyear Tire & Rubber Co. Stanco Manufacturing Co.
Hensley Equipment Co. Universal Form Clamp Co.
Hill Bros. Chemical Co. Viber Company
A. C. Horn Co. Wayne Manufacturing Co.
Huber-Warco Co.

J. T. JENKINS CO. (Branch).....**FRESNO**
Highway 99 & East Avenue PH: AD 3-6108

Manager.....R. P. Hammat

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GEORGE M. PHILPOTT CO., INC. (Branch).....**FRESNO**
2376 S. Railroad PH: AM 6-9843

Manager.....Don Booker

SEE MAIN OFFICE LISTING UNDER SO. SAN FRANCISCO

THE H. C. SHAW CO. (Branch).....**FRESNO**
240 N. Thorne PH: AD 7-4080

Manager.....Homer Catron

SEE MAIN OFFICE LISTING UNDER STOCKTON

VICTOR EQUIPMENT CO. (Branch).....**FRESNO**
PH: AM 6-0619

Manager.....Al Dreith, Jr.

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WATSON & MEEHAN (Branch).....**FRESNO**
2740 Church Street PH: AM 4-3096

Manager.....J. R. Canny

SEE MAIN OFFICE LISTING UNDER SAN FRANCISCO

KING-KNIGHT CO. (Branch).....**GARDENA**
507 Alondra Blvd. PH: FA 1-2114

Manager.....Lee Guttero

SEE MAIN OFFICE LISTING UNDER SAN FRANCISCO

DAVIES MACHINERY CO......**HANFORD**
112 - 126 E. 7th Street PH: LU 4-4411

Pres. & Mgr.....Wm. E. Davies Vice President...Doug. D. Davies
Sales Manager.....M. D. McKim Parts Manager.....Austin James
Service Manager...Wm. E. Kelley

BRANCH OFFICES

Bakersfield 24th St. & Hwy. 99 D. D. Davies PH: FA 5-2451
Corcoran 832 Whitley Ave. Bill Devin PH: WY 2-2922
Delano 310 High St. H. McNeil PH: 3841
Wasco 718 7th St. Gordon Smith PH: PL 8-6571

LINES HANDLED

Athey Products Corp. John Deere Plow Co.
Balderson, Inc. Preco, Inc.
Caterpillar Tractor Co. Townner Manufacturing Co.
Fleco Corp. Ulrich Products Co.
Hyster Company

RIX-CENTRAL EQUIPMENT CO. (Branch).....**HAYWARD**
26 Jackson Street PH: LU 2-2344 — EL 7-0707

ManagerJoel Mungari

SEE MAIN OFFICE LISTING UNDER SAN FRANCISCO

DITZ BROS. (Branch).....**HOLLISTER**
201 - 6th Street PH: ME 7-4940

ManagerMel G. Dame

SEE MAIN OFFICE LISTING UNDER SANTA CLARA

O. C. SUPPLIERS, INC......**HUNTINGTON BEACH**
1980 Lake Avenue PH: LE 6-6853

President.....J. G. Stebbings Vice President.....Victor Terry
Vice President.....John Marion Manager.....Harry A. McCann

LINES HANDLED

Adams Pipe Repair Clamps Igloo Water Cooler Co.
Allenco Hose Fittings Ladish Saw Blades & Fittings
Anaconda Copper Tubing Lasco Plastic Pipe & Fittings
Anchor Packing Lincoln Engineering Co.
Anderson Copper Tubing Fgts. Lufkin Rule Co.
Bay State Abrasives Mills—Swages & Bull Plugs
Black & Decker Elec. Tools Permacel Tapes
Broderick & Bascom Wire Rope Proto Tool Co.
Andrew Brown Brolite Paints The Ridge Tool Co.
Campbell Chain Roper Pumps
Clayton Mark & Co. Rust-Oleum Paint
Dayton V-Belts Sellstrom Safeguards
Dixon Hose Couplings Skinner Brothers Co.
F & F Cranes for Pickup Trucks Smith-Blair Co.
Federated Metals Thompson Mfg. Co. (Sprinklers)
(Babbitt & Solder) Union Fork & Hoe Co.
Great Western Cordage Co. Victaulic Couplings
Greenfield Taps & Dies Wilton Vises
Heller Tool Co. Complete stocks of pipe, valves
Hubbard Sledges & Bars & fittings

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
Northern Life Tower, Seattle

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

SINGLE TRACTOR CO. (Branch).....**KING CITY**
905 Broadway PH: 222

Manager.....Verne Holland

SEE MAIN OFFICE LISTING UNDER SALINAS

NEPHERD MACHINERY CO. (Branch).....**LANCASTER**
403 W. Avenue I PH: WH 2-1177

ManagerH. T. Swenson

SEE MAIN OFFICE LISTING UNDER E. LOS ANGELES

YLE EQUIPMENT CO......**LA PUENTE**
Div. of Willis B. Kyle, Inc.
125 N. Vineland PH: ED 6-4581

PresidentW. B. Kyle, Jr. Vice Pres. & Mgr. ...G. V. Thede
Parts ManagerA. P. DiGangi Service Mgr. ...Edw. T. Monahan

LINES HANDLED

Euclid Division—GMC

OLT BROS. (Branch).....**LODI**
200 S. Cherokee Lane PH: EN 8-1593

ManagerDaniel Geringer

SEE MAIN OFFICE LISTING UNDER STOCKTON

NDERSON-O'BRIEN.....**LOS ANGELES**
746-48 E. Washington Blvd. PH: RI 9-7795

President.....M. H. O'Brien VP & Manager...A. N. Anderson
Parts Manager.....E. L. Durkee Sales Manager....E. M. Womble
Service Mgr....M. M. Bloomingher

BRANCH OFFICE

San Pedro 1400 S. Harbor Blvd. A. N. Anderson PH: TE 1-2333

REPRESENTATIVES

Bakersfield Lawless Bros., Inc. Emmett Lawless
Ventura Gem Eqpt. Co. Frank Woodward
Visalia Tulare County Tractor Co. E. G. Peterson

LINES HANDLED

Automatic controls for generator Gas—Gasoline Generator Sets
sets, fire pumps, etc. G.M. Diesel—Elec. Generator Sets
Engine Cooling Systems Onan Generator Sets
G.M. Diesel Engines

BEALSHAW CORPORATION.....**LOS ANGELES**
5110 East Triggs Street PH: An 9-7216

PresidentBeal Shaw Vice President....J. R. Hedding
SecretaryCarl W. Hess

LINES HANDLED

Harnischfeger Corporation
(Power Shovels & Truck Cranes)

BROWN-BEVIS-INDUSTRIAL EQUIPMENT CO......**LOS ANGELES**
6550 E. Washington Blvd. PH: RA 3-6321

General Partner...C. E. Skidmore General Partner...M. E. Schwartz
Sales Manager.....V. V. Bailey Tractor Division...R. D. Whiting
Parts Manager.....E. J. Powers Service Manager...K. W. Routh

BRANCH OFFICES

Bakersfield 1419 Union Ave. J. A. Cloes PH: FA 5-1239
Riverside 1575 - 8th Ave. C. D. Chase PH: OV 6-2121
San Diego 701 E. Harbor Dr. J. V. Winchell PH: BE 4-2833

LINES HANDLED

Aeroil Products Co., Inc.
Allen Industrial Products, Inc.
Bettis Corporation
C. H. & E. Manufacturing Co.
Campbell Detachable Cab Co.
Car-Anth Mfg. & Supply Co.
Carpenter Manufacturing Co.
Colorado Fuel & Iron Corp.
R. E. Dietz Co.
Dixon Valve & Coupling Co.
Drott Manufacturing Co.
Gar-Bro Manufacturing Co.
General Mach. & Welding Wks.
W. E. Grace Manufacturing Co.
Greenville Steel Car Co.
Ateco Division
Heltzel Steel Form & Iron Co.
Highway Equipment Co., Inc.
The Frank G. Hough Co.
Industrial Cab Co.

International Harvester Co.
Interstate Drop Forge Co.
Special Products Div.
Iowa Manufacturing Co.
Iron City Tool Works, Inc.
Kolman Manufacturing Co.
McCaffrey Ruddock Tagline Corp.
Miller Tilt Top Trailer, Inc.
Page Engineering Co.
Pekor Iron Works, Inc.
Shovel Supply Co.
Simplicity Engineering Co.
Snelling Manufacturing, Inc.
Superior Equipment Co.
Tarrant Manufacturing Co.
Warner & Swasey Co.
Western Conveyor Co.
Whiteman Manufacturing Co.
Winslow Govt. Std. Scale Works

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SEE OUR LISTING THIS PAGE

W. J. BURKE & CO. (Branch).....**LOS ANGELES**
6235 E. Telegraph Road PH: RA 3-7286

Manager.....John Atwater

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CALAVAR CORPORATION.....**LOS ANGELES**
2700 S. Broadway PH: RI 8-6292

President.....Robt. L. Koehler VP & Sls. Mgr...Chester C. Cook
Parts Manager.....L. Eggert Service Manager...E. R. Erickson

LINES HANDLED

Acme Iron Works
Dempster Brothers, Inc.
Four Wheel Drive Auto Co.
Hammermills, Inc.
Highway Trailer Co.
Klauer Manufacturing Co.
Malsbary Manufacturing Co.
P&H Diesel Engine Division of
Harnischfeger Corporation

Petersen Engineering Co.
Simplicity Engineering Co.
Truck Equipment Co.
Tucker Sno-Cat Corp.
Unimasco, Inc.
Universal Engineering Corp.
Wausau Iron Works, Inc.

CAL-REX MACHINERY SALES.....**LOS ANGELES**
7601 Telegraph Road PH: RA 3-5227

Manager.....R. G. Kuhnmuench Sales Manager...J. B. Woodward
Parts Manager...W. E. Waldman Service Mgr.....L. H. Gratz

LINES HANDLED

Chain Belt Co. —
Bin and Batch Div.

Construction Machinery Div.
Paving Machinery Div.

CALWELD, INC......**LOS ANGELES**
7222 E. Slauson Avenue PH: RA 3-5314

President.....George F. Casey Exec. VP.....Steven L. Rose
Manager.....Steven L. Rose Vice President...Geo. F. Casey, Jr.
Parts Manager...Charles A. Jones Sales Mgr....F. W. Schroeder, Jr.

LINES HANDLED

Calweld Asphalt Tools
Calweld Earth Drills

Calweld Vacuum Pumping Units

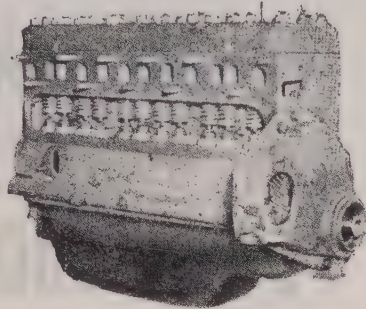
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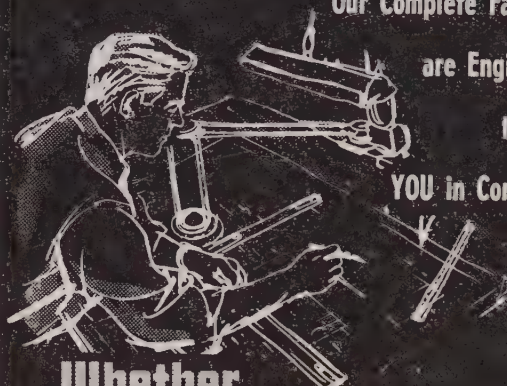
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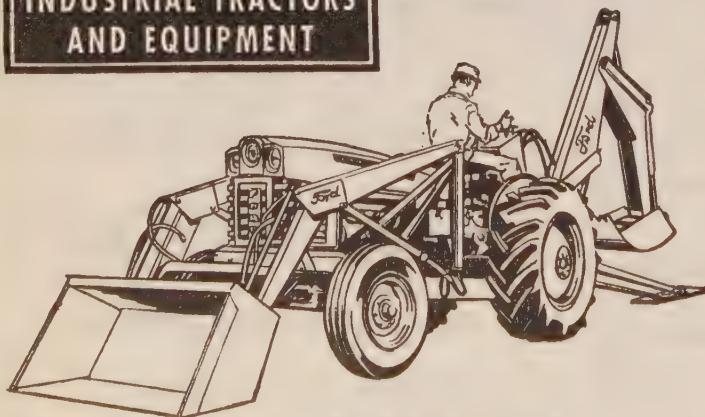


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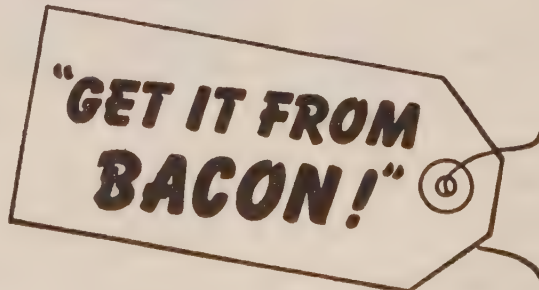
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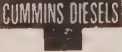
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Dart Manufacturing Co.	Sam Mulkey Co.
Douglas Motors Corp.—	Sasgen Derrick Co.
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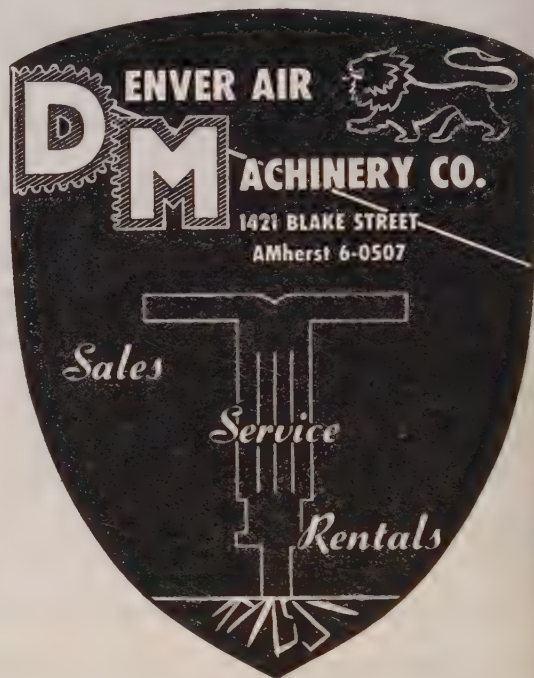
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Hendrix Manufacturing Co.	Simplicity Engineering Co.
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Douglas Motors Corp.
Huehuf Trailer Co.
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Le Manufacturing Co.
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Napco Industries, Inc.
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Prior Products Co.
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Superior Coach Corp.
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Pettibone Mulliken Corp.
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ur Wheel Drive Auto Co.
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Manhattan Rubber Div.
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Skil Corp.
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Parts Manager.....F. T. Hall Service Manager.....W. J.

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Clark Eqpt. Co. (Michigan)
Clayton Co.
Continental Motors Corp.
Curtis Manufacturing Co.
DeWalt, Inc.
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Eimco Corp.
Eveready Brikshaw Co.
Gar-Bro Mfg. Co.
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Hetherington & Berner
Jackson Vibrators, Inc.
Jaeger Machine Co.
Jos. F. Kiesler Co.
King Manufacturing Co.

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Link Belt Speeder Corp.
Maginniss Power Tools Co.
Murphy Scale Co.
Napco Industries
Noble Co.
Pitman Mfg. Co.
Rosco Manufacturing Co.,
Rolcor Division
Sanstorm Mfg. Co.
Skagit Mfg. Co.
Sutorbilt Corp.
Tampo Mfg. Co.
Thor Power Tool Co.
Trac Machinery Corp.
Union Wire Rope Corp.
Walter Truck Co.
Wemco Products
Western Rok Bit Mfg. Co.
Whiteman Mfg. Co.
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Wylie Manufacturing Co.

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Fuller Manufacturing Co.
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Wire Tie Div.
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Barber-Greene Co.
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 Barco Manufacturing Co. D. W. Onan & Sons Co.
 Bucyrus-Erie Co. Oster Manufacturing Co.
 Carborundum Co. Reda Pump Co.
 Coffing Hoist Co. George D. Roper Corp.
 Cutler Hammer, Inc. Thor Power Tool Co.
 The Deming Co. Tulsa Winch Div., Vickers, Inc.
 Diamond Chain Co. United States Rubber Co.
 Gardner-Denver Co. Victor Equipment Co.
 Gates Rubber Co. Worthington Corp.
 Hazard Wire Rope Co. Wright Mfg. Div., A.C.C. Co.
 Lincoln Electric Co.

LL-PERRY MACHINERY CO. (Branch) **BILLINGS**
 902 Central Avenue PH: GL 2182

Manager.....R. M. Bowen

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INDUSTRIAL EQUIPMENT CO. **BILLINGS**
 1800 Sixth Avenue N. PH: AL 2-2158

President.....W. C. Hardie Sales Prom. Mgr...Lloyd Herman
 Office Manager.....T. B. Brown Sales Manager.....B. F. Beiler
 Parts Manager.....Morris Irion Service Manager...A. R. Garrigus
 (Continued in next column)

Industrial Equipment Co. (Cont'd)
 LINES HANDLED

Baughman Mfg. Co., Inc. International Harvester
 Bethlehem Steel Co. Lincoln Auto Gates
 Otto Biefeld Maxon Construction Co., Inc.
 Carco Northwest Engineering Co.
 Chicago Pneumatic Pioneer Engineering
 Cleveland Trenchers Prime Mover
 Construction Machinery Co. Schield Bantam
 Drott Manufacturing Corp. Seaman-Andwall
 Engineered Equipment Spencer-Safford
 E. D. Etnyre Stow Vibrators
 Flaherty Spreaders Wacker Compactors
 Galion Iron Works Wain-Roy Corp.
 Hy-Way Heat Wayne Sweepers
 Hough, Frank G. Wells U Dozer

MILLER MACHINERY CO. (Branch) **BILLINGS**
 640 Highway 10 East PH: CH 5-3061

ManagerVern Hoff

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 1024 - 4th Avenue N. PH: 4-4426

ManagerBob Schenk

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NASH-DAVIS MACHINERY CO. **BILLINGS**
 1145 U. S. 10 East PH: AL 2-0541

Pres. & Sls. Mgr. ..Don O. Nash VP & Gen. Mgr.....Ken H. Davis
 Parts Mgr.J. T. Woodward Service Mgr.Dale N. Bashor

BRANCH OFFICES

Bozeman 109 N. Rouse PH: JU 6-5677
 Greybull (Wyo.) 6th Ave. & 8th St. PH: PO 5-4451

LINES HANDLED

Athey Products Corp. Midwestern Manufacturing Co.
 American Tractor & Eqpt. Co. Omaha Steel Works
 Balderson, Inc. Preco, Inc.
 Caterpillar Tractor Co. Rivinius, Inc.
 Fleco Corp. Rome Plow Co.
 Gurries Manufacturing Co. Southwest Welding & Mfg. Co.
 Hyster Company Thew Shovel Co.
 Hyster Co., Martin Trailer Div. Ulrich Manufacturing Co.
 Industrial Machine Co. Yuba Manufacturing Div.
 Medford Steel Co.

SEITZ MACHINERY CO. **BILLINGS**
 420 N. 24th Street PH: AL 2-4646

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 Vice PresidentGlen Seitz Parts Manager ..F. M. Smith, Jr.
 Service Mgr.John Selleck

BRANCH OFFICES

Bozeman 506 N. 7th Ave. PH: JU 7-3880
 Great Falls 1107 Smelter Ave. PH: GL 2-9454

LINES HANDLED

Allis-Chalmers Mfg. Co. Hewitt-Robbins Corp.
 American Tractor Eqpt. Co. Ingersoll-Rand Co.
 Badger Machine Co. R. G. LeTourneau, Inc.
 Baldwin-Lima-Hamilton (Crusher Div.) Mack Welding
 Birmingham Manufacturing Co. Murray Manufacturing Co.
 Bonded Scale Co. Noble Co.
 Carver Pump Co. Pacific Car & Foundry Co.
 Chausse Manufacturing Co. E. A. Rogers Co.
 Cook Bros. Equipment Co. Shovel Supply Co. (Ferguson)
 Danuser Machine Co. Skagit Steel & Iron Works
 FWD Trucks Vibro-Plus Products, Inc.
 Gar Wood Industrial Co. Wagner Iron Works
 Good Roads Machinery Co. Western Machinery Co.
 Harmischfeger Corp. Western Fence & Wire Works

WESTERN CONSTRUCTION EQUIPMENT CO. **BILLINGS**
 505 N. 24th Street PH: AL 9-5501

PresidentH. M. Doolen Vice PresidentD. W. Doolen
 VP & ManagerL. J. Klingler Sales ManagerJ. L. Patterson
 Parts ManagerBob Jerome Service Mgr.A. J. Sullivan

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(Continued on next page)

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Acme Iron Works
 Adams Div., LeTourneau-
 Westinghouse
 Barber-Greene Co.
 Bros Incorporated
 Cataphote Co.
 Champion Manufacturing Co.
 Clyde Iron Works
 Crane Carrier Corp.
 Dotmar Industries, Inc.
 Eagle Iron Works
 Elgin Corp.
 Flour City Brush Co.
 Gledhill Road Machinery Co.
 Gormann-Rupp Co.
 Gradall Div., Warner & Swasey
 Henrrix Manufacturing Co.
 Hercules Motors Corp.
 Hopto Div., Warner & Swasey
 Hynes Electric Heater Div.,
 Turbine Equipment Co.
 C. S. Johnson Div., Koehring Co.
 Koehring Div., Koehring Co.

Kwik-Mix Div., Koehring Co.
 LaCrosse Trailer Corp.
 LeRio Div., Westinghouse
 Air Brake Co.
 LeTourneau-Westinghouse Co.
 Little Giant Crane & Shovel Co.
 Master Vibrator Co.
 Metal Forms Co.
 Miller Spreader 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

WYMO EQUIPMENT CO. (Branch)BILLINGS
 5004 E. Billings Heights PH: 2-5676

ManagerArt Cooper

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SEITZ MACHINERY CO., INC. (Branch)BOZEMAN
 506 N. 7th Ave. PH: JU 7-3880

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WYMO EQUIPMENT CO. (Branch)BOZEMAN
 526 N. Rouse Street PH: JU 6-6305

ManagerMartin Beckman

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BUTTE MACHINERY CO.BUTTE
 510 E. Aluminum PH: 6524

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 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
 Eimco 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-Starrett 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 ManagerW. Lancaster
 Office Mgr.N. Brouillette

Vive PresidentH. G. Dean
 Parts ManagerW. D. Rusk
 Service Mgr.Ed Seeb

BRANCH OFFICES

Billings 902 Central Ave. R. M. Bowen PH: GL 2182
 Great Falls 1116-15th St. N. R. Christensen PH: GL 2-8521
 Missoula 1621 So. Ave. W. PH: LI 9-2617

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 American Hoist & Derrick Co.
 American Chain & Cable Co.
 Austin-Western Div., Baldwin-
 Lima-Hamilton Corp.

Keystone Lubricating Co.
 Littleford Bros., Inc.
 Madsen Works, Baldwin-Lima-
 Hamilton Corp.
 Mall Tool Co.

(Continued in next column)

Hall-Perry Machinery Co. (Cont'd)

The Burch Corp.
 Chain Belt Co.
 Cleaver-Brooks Co.
 Coffing Hoist Div.
 Dart Manufacturing Co.
 DeWalt, Inc.
 Ensign Products Co.
 Euclid Division—GMC
 Eveready Briksaw Co.
 Gar-Bro Manufacturing Co.
 Goodyear Tire & Rubber Co.
 Grimm Stamp & Die Co.
 H & L Tooth Co.
 Jackson Vibrators, Inc.
 Jay Corporation
 Joy Manufacturing Co.

Jude Molene Co., Inc.
 Murphy Diesel Co.
 L. R. Murphy Scale Co.
 Nordberg Manufacturing Co.
 Pacific Wire Works Co.
 Page Engineering Co.
 Salem Tool Co.
 Sauerman Brothers, Inc.
 Seagraves Corporation
 Silent Glow Oil Burner Corp.
 Stanco Manufacturers & Sales
 Universal Form Clamp Co.
 Whiteman Manufacturing Co.
 Winslow Govt. Std. Scale Works
 Wright Power Saw & Tool Corp
 York Modern Corporation

HALL-PERRY
MACHINERY CO.

"See us for these Leading Lines"

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- AMERICAN HOIST & DERRICK CO.
- AUSTIN-WESTERN CONSTRUCTION EQUIP. DIV.
- CHAIN BELT CO.
- CHARLES MACHINE WORKS
- CLEAVER-BROOKS CO.
- COFFING HOIST DIV.
- DART MFR. & SALES CO.
- DEWALT DIV.—AMERICAN MACHINE & FORGE
- DUFF-NORTON CO.
- EUCLID DIVISION, GMC
- EVEREADY BRIKSAW CO.
- GAR-BRO MFR. CO.
- GOODYEAR TIRE & RUBBER CO.
- H & L TOOTH CO.
- JACKSON VIBRATORS, INC.
- THE JAY COMPANY
- JOY MANUFACTURING CO.
- LITTLEFORD BROS., INC.
- MADSEN WORKS, DIV. OF BALDWIN-LIMA-HAMILTON
- MURPHY DIESEL CO.
- L. R. MURPHY SCALE CO.
- NORDBERG MANUFACTURING CO.
- OVERSTROM & SONS, INC.
- RODGERS HYDRAULIC CO.
- SAUERMAN BROS., INC.
- STANCO MFR. & SALES, INC.
- STRAUB MFR. CO., INC.—Kue-Ken Crushers
- WHITEMAN MANUFACTURING CO.

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 PH: 200

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TRACTOR & EQUIPMENT CO. (Branch)GLASGOV
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ManagerM. R. Otto

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CENTRAL MACHINERY CO.GREAT FAL
 721 -2nd Street PH: GL 3-1606

PresidentHenry Sheffels
 Sales ManagerGard Spaulding

ManagerEd Re
 Parts ManagerFrank Sava
 Service Mgr.Clayton Donov

(Continued on opposite page)

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120 Montgomery Street, San Francisco
 Northern Life Tower, Seattle

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

Al Machinery Co. (Cont'd)

BRANCH OFFICES

East Havre Walt Rust PH: 337
 1st Ave. & Evelyn Joe Manning PH: KE 8-5940

LINES HANDLED

American Tractor & Eqpt. Co.
 they Products, Inc.
 Alderson, Inc.
 terpillar Tractor Co.
 eco Corp.
 ardner Denver Co.
 yster Co.
 yster Co., Martin Trailer Div.

Jaeger Machine Co.
 Minneapolis Moline—Ind.
 Omaha Steel Works
 Precor, Inc.
 Shovel Supply Co.
 Thew Shovel Co.
 Ulrich Mfg. Co. (Domor)
 Wickwire Rope

AT NORTHERN TOOL & SUPPLY CO. (Branch) GREAT FALLS
 PH: GL 3-2523

anager S. J. Griggs

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PERRY MACHINERY CO. (Branch) GREAT FALLS
 1116-15th Street N. PH: GL 2-8521

SEE MAIN OFFICE LISTING UNDER BUTTE

ER MACHINERY CO. (Branch) GREAT FALLS
 610 River Drive PH: GL 3-1635

anager Art Doherty

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 2123 Vaughn Road PH: GL 3-5523

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 Sales Manager W. C. Neils Service Mgr. E. Ross Sadler
 Parts Manager E. C. Eldridge

LINES HANDLED

erol Products Co.
 Luck Equipment Co.
 hampton Mfg. Co.
 Colorado Fuel & Iron Corp.
 Electric Steel Foundry Co.
 Fairbanks-Morse Co.
 Far-Bro Manufacturing Co.
 MC Detroit Diesel Div.
 Homelite Division
 Earle M. Jorgensen Co.
 Lippmann Engrg. Works, Inc.
 Maginniss Power Tool Co.
 Mail Tool Co.
 iam Mulkey Co.

Muller Machinery Co., Inc.
 L. R. Murphy Scale Co.
 Pacific Wire Rope Co.
 Pacific Wire Works Co.
 Page Engineering Co.
 Remington Arms Co.
 Richmond Screw Anchor Co.
 Skil Corporation
 Symons Clamp & Mfg. Co.
 Thermoid Div., H. K. Porter Co.
 Thor Power Tool Co.
 H. S. Watson Co.
 Whiteman Mfg. Co.

RMONT EQUIPMENT CO. GREAT FALLS
 1157 Smelter Avenue PH: GL 3-0091

Owner Joe B. Beatty Service Mgr. Ben Young
 Parts Manager Jack Gallagher

LINES HANDLED

American Steel & Wire
 Arrow Manufacturing Co.
 Blaw-Knox Co.
 Chicago Pneumatic Tool Co.
 Cleveland Trencher Co.
 Construction Machinery Corp.
 Dumpster
 Engineered Equipment Co.
 E. D. Etnyre & Co.
 Highway Equipment Co.
 M-B Refuse Bodies

M-R-S Hauling Units
 Northwest Shovels
 Page Engineering Works
 Pioneer Engineering Works
 Prime Movers
 Seaman-Andwall Co.
 The Tampro Mfg. Co.
 Teale & Co. Cranes
 Thurman Scales
 Trojan Loaders
 White Manufacturing Co.

WER EQUIPMENT CO. GREAT FALLS
 Highway 87 North PH: GL 2-3265

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 Sales Manager George Spehn Parts Manager Wayne Duncan
 Service Mgr. A. W. Isakson

LINES HANDLED

Construction Machinery Co.
 Drott Manufacturing Co.
 Galion Iron Works & Mfg. Co.
 Frank G. Hough Co.

International Harvester Co.
 Schield Bantam Co.
 Wain-Roy Corp.

SEITZ MACHINERY CO., INC. (Branch) GREAT FALLS
 1107 Smelter Avenue PH: GL 2-9454

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 2322 River Drive PH: GL 3-1405

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 Service Mgr. Walter Mitchell Parts Manager Walter Mitchell

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CENTRAL MACHINERY CO. (Branch) HAVRE
 East Havre PH: 337

Manager Walt Rust

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 PH: HI 2-1363; 2-7957

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 Parts Manager F. Montibeller Service Mgr. Carl Dickman

BRANCH OFFICE

Billings 1239 Burlington C. Davidson PH: 9-5809

LINES HANDLED

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 Atlas Conveyors
 Dodge Manufacturing Div.
 Electric Steel Foundry
 General Electric Co.

Insley Manufacturing Co.
 Oliver Corporation
 P & H Welding Equipment
 Wickwire Wire Rope
 Worthington Corp.

MONTANA POWDER & EQUIPMENT CO. HELENA
 12 E. Lawrence Street PH: HI 2-2990

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 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

Aeroquip Hose & Fittings
 American Air Filter Co., Herman
 Nelson Heater Div.
 Automatic Devices, Inc.
 Brunner & Lay, Inc.
 Columbia Powder Co.
 Columbia Steel Casting
 D-A Lubricant Co.
 Dempster Dumpsters & Diggsters
 Dependaloy Track Rollers
 Dixon Valve & Coupling Co.
 Duff-Norton Jacks
 Edward Wire Rope
 Electric Steel Foundry Co.
 Essick Mixers
 Flink Sand Spreaders
 Good Roads Machinery Corp.
 Haiss Manufacturing Co.
 Henry Manufacturing Co.
 Hetherington & Berner, Inc.
 Highway Warning Signs

Link-Belt Speeder Corp.
 Marlow Pumps
 Miro Flex Co.
 L. R. Murphy Scales
 Pacific Wire Works Co.
 Pitman Hydralift Co.
 Pettibone-Mulliken Corp.
 Pettibone-New York Corp.
 Quick-Way Truck Shovel Co.
 Rosco Manufacturing Co.
 Sanstorm Manufacturing Co.
 Schramm, Inc.
 Shovel Supply Co.
 T. L. Smith Co.
 Thor Power Tool Co.
 Transport Trailers, Inc.
 U. S. Rubber Co. (Industrial)
 Universal Engineering Corp.
 Viber Vibrators
 Wenzel Tarpaulins

STEFFECK EQUIPMENT CO. HELENA
 1825 N. Main Street PH: HI 2-4450

President A. J. Steffeck Service Mgr. Walt Glasby
 Parts Manager Herb Atkins

LINES HANDLED

Buffalo-Springfield Roller Co.
 FWD Corporation
 Klauer Manufacturing Co.
 Manitowoc Engineering Works

Wausau Iron Works
 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

President S. J. Catron Executive VP John J. Leary
 Vice President G. A. Miller Mgr. & Sls. Mgr. John J. Leary
 Parts Manager P. R. Biggar Service Mgr. D. H. Luterbach

(Continued on next page)

Treasure State Equipment Co. (Cont'd)

BRANCH OFFICE

Missoula 400 Knowles Ave. PH: LI 2-2121
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LINES HANDLED

Allen Industrial Products Co.
 Allied Steel Products Co.
 American Tractor Eqpt. Co.
 Anderson Engineering Co.
 Blaw-Knox Co.
 Chicago Pneumatic Tool Co.
 Cleveland Trencher Co.
 Colorado Fuel & Iron Co.
 Drott Manufacturing Co.
 Electric Steel Foundry Co.
 E. D. Etnyre & Co.
 Galion Manufacturing Co.
 Hensley Equipment Co.
 Frank G. Hough Co.
 International Harvester Co.
 Malsbary Manufacturing Co.
 Maxon Dumperete Bodies
 Ottawa Steel Products Co.
 Owen Bucket Co.
 Pacific Car & Foundry Co.
 Pressed Steel Car Co.
 Prime Mover Co.
 Seaman Motors, Inc.
 Service Supply Corp.
 Simplicity Engineering Co.
 Stow Manufacturing Co.
 Superior Equipment Co.
 Tarrant Manufacturing Co.
 Wacker Corporation
 Wayne Manufacturing Co.
 L. B. White Co.
 White Manufacturing Co.

WESTMONT TRACTOR CO. (Branch) KALISPELL
 55 - 3rd Avenue E.N. PH: SK 6-5007

ManagerHoward Hurst Service Mgr.Oscar Moe
 Parts Manager ...Johnny Johnson

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 PH: 7

ManagerT. A. Smith

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CENTRAL MACHINERY CO. (Branch) LEWISTOWN
 1st Ave. & Evelyn St. PH: KE 8-5940

ManagerJoe Manning

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TRACTOR & EQUIPMENT CO. (Branch) MILES CITY
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ManagerJack Kelly

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ManagerR. H. Christensen

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 Secy.-Treas.D. V. Scott Parts ManagerR. Hallingstad
 Service Mgr.A. E. Richardson

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 Huber-Warco Co.
 Iowa Manufacturing Co.
 Kolman Manufacturing Co.
 Marion Power Shovel Co.
 Michigan Loaders
 Mobil Sweepers
 Seaman-Gunnison Corp.
 Union Wire Rope Corp.
 U. S. Electric Motors, Inc.
 Worthington Corp.

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 1345 W. Broadway PH: LI 3-6651

Pres. & Mgr.W. H. McIntyre Vice PresidentGeo. E. Martin
 Sales Manager ..W. O. Wallinder Parts Manager ..Wm. J. Anderson
 Service Mgr.Kenneth J. Day

BRANCH OFFICE

KallisPELL 3rd Ave. E & RR St. Geo. E. Martin PH: SK 6-4388

LINES HANDLED

Allis-Chalmers Constr. Mch'y.
 Allis-Chalmers Engines &
 Generator Sets
 Ingersoll-Rand Co.
 Pacific Car & Foundry Co.
 John A. Roebling's Sons Co.

(Continued in next column)

Mountain Tractor Co. (Cont'd)

Allis-Chalmers Mtl. Handling
 Corley Manufacturing Co.
 Electric Steel Foundry
 Fairbanks-Morse Scales
 Flaherty Manufacturing, Inc.
 Gar Wood Industries, Inc.
 Goodall Rubber Co.
 Henry Manufacturing Co.

Smith Engineering Works
 Standard Steel Corp.
 Tampo Manufacturing Co.
 Thew Shovel Co.
 West Coast Machinery Co.
 Western Conveyor Co.
 Young Iron Works

TREASURE STATE EQUIPMENT CO. (Branch) MISSOULA
 400 Knowles Avenue PH: LI 2-2121

Parts ManagerH. E. Sandefur Service Mgr.John M. Baggs

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 150 E. Spruce Street PH: LI 3-6666

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 Service Mgr.E. L. Erickson

BRANCH OFFICES

Butte Sales Representative Bill Hartley PH: 2-90
 KallisPELL 55—3rd Ave. E.N. Howard Hurst PH: SK 6-5007

LINES HANDLED

American Tractor Eqpt. 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.
 Mexi Corporation
 L. R. Murphy Scale Co.
 Omaha Steel Works
 Owen Bucket Co.
 Pioneer Engineering Works
 Rivinius, Inc.
 Roscoe Manufacturing Co.
 Stow Manufacturing Co.
 Thermoid Rubber Products
 Ulrich Products Corp.
 Washington Trak Loader
 Whiteman Manufacturing Co.
 Yuba Manufacturing Co.

TRACTOR & EQUIPMENT CO. SIDNEY
 201 N. Central PH: 3

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 Parts ManagerG. D. Robertson Service Mgr.G. D. Robertson

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Glasgow E. Hiway 2 M. R. Otto PH: AC 8-93
 Miles City S. 5th & Pacific Jack Kelley PH: CE 2-46

LINES HANDLED

Ateco
 Athey Products Corp.
 Atlas Conveyor Co.
 Austin Overshot Loaders
 Balderson Mfg. Co.
 Broderick & Bascom Rope Co.
 Caterpillar Tractor Co.
 Fleco Corp.
 Hyster Co.
 Jaeger Machine Co.
 Littleford Bros., Inc.
 Martin Machine Co.
 Minneapolis-Moline Co.
 Nordberg Mfg. Co.
 Pioneer Engineering Works
 Rome Plow Co.
 Thew Shovel Co.
 Yuba Manufacturing Div.

NEVADA

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 251 W. Commercial PH: RE 8-3103

PresidentH. C. Anderson Vice PresidentHarry Ulmer
 ManagerH. Anderson Sales ManagerS. W. Davidson
 Parts Manager....Marshall Sewell Service Mgr.William La...

BRANCH OFFICE

Las Vegas 3463 S. Highland Ray Jones PH: DU 4-04

LINES HANDLED

Allis-Chalmers Mfg. Co.
 Armco Drainage & Metal Prods.
 Chicago Pneumatic Tool Co.
 Colorado Fuel & Iron Corp.
 Cook Bros. (Challenge)
 Electric Steel Foundry
 Food Mch'y. & Chemical Corp.
 Gar Wood Industries
 Gates Rubber Co.
 Goodyear Tire & Rubber Co.
 Hancock Manufacturing
 Harnischfeger Corp.
 Mobil Sweeper
 P & H
 Peerless Pump
 Pioneer Engineering
 Shovel Supply Co.
 Tampo Manufacturing Co.
 Thermoid Western
 Victor Equipment Co.
 Wickwire Wire Rope
 Yardley Plastic Co.

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

HOOKS BROS. TRACTOR CO. (Branch) **ELKO**
 435 S. Fifth Street PH: RE 8-3010

Manager L. J. Wilkerson

SEE MAIN OFFICE LISTING UNDER RENO

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 163 S. Highland PH: DU 4-0411

Manager Ray Jones

SEE MAIN OFFICE LISTING UNDER ELKO

MAN EQUIPMENT CO. **LAS VEGAS**
 132 W. Bonanza Road PH: DU 2-8891-97

Owner J. Cashman, Sr. Co-Owner J. Cashman, Jr.
 Owner T. C. Margison Mgr. & Sls. Mgr. Harold Nichols
 Parts Manager E. B. Austin Service Mgr. John Hyndman

LINES HANDLED

they Products Corp.
 Caterpillar Tractor Co.
 Ieco Corp.
 & L Tooth Co.

Hyster Company
 Jaeger Machine Co.
 John Deere Co.
 Thor Power Tool Co.

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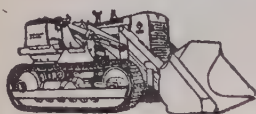
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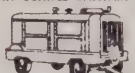


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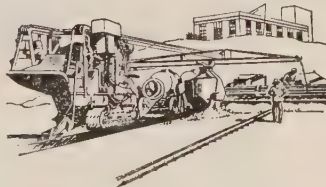
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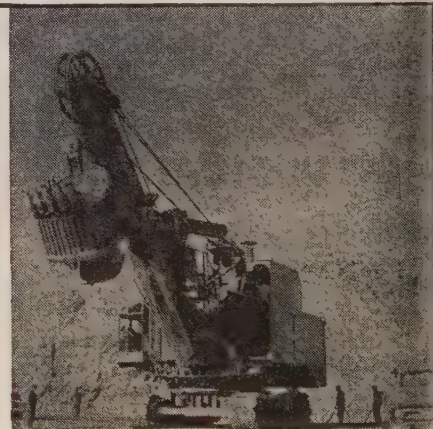
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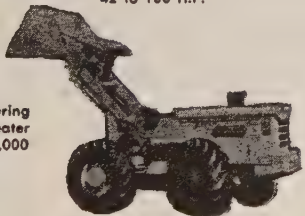
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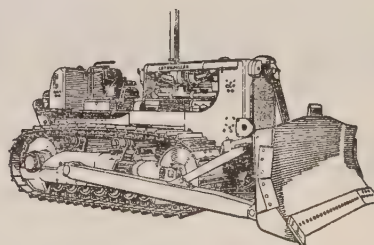
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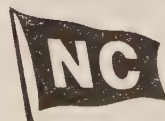
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TRACTOR ATTACHMENTS
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B

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The Owen Bucket Co.
Pettibone Mulliken Corp.,
Pettibone New York Div.
Schield Bantam Co.
Williams Bucket Div.,
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.
The Heltzel Steel Form & Iron Co.
Insley Manufacturing Corp.
The C. S. Johnson Co.
Lull Engineering Co.
Miller & Smith Mfg. Co., Inc.
Tubular Structures Corp.
of America
H. S. Watson Co.
Yaun Manufacturing Co., Inc.

BUCKETS, Dragline
Bucyrus-Erie Co.
Columbia Steel Casting Co., Inc.
Drake-Williams Steel, Inc.
Electric Steel Foundry Co.
Hendrix Mfg. Co., Inc.
M. P. McCaffrey, Inc.
Page Engineering Co.
Pettibone Mulliken Corp.
Schield Bantam Co.
Williams Bucket Div.,
The Wellman Engineering Co.
Yaun Manufacturing Co., Inc.
Young Iron Works

BUILDERS
(See Dozers)

C

CAR PULLERS
Bodinson Manufacturing Co.
Clyde Iron Works, Inc.
Hewitt-Robins, Inc.
The Frank G. Hough Co.
Joy Manufacturing Co.
Link-Belt Co.

Stephens-Adamson Mfg. Co.
Superior-Lidgerwood-Mundy Corp.

CEMENT
Permanente Cement Co.
Riverside Cement Co.

CLAMPS
(See Concrete Accessories)

CLEANERS, Steam
Aeroil Products Co., Inc.
Clayton Manufacturing Co.
Malsbary 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.
Lincoln Engineering Co.
Mississippi Valley Equipment Co.
Morse Bros. Machinery Co.
Quincy Compressor Co. (Air)
Schramm, Inc.
Gordon Smith & Co., Inc.
Worthington Corp.

CONCRETE ACCESSORIES
Acrow California, Inc.
Adhesive Engineering
American-Marietta Co.,
Presstite Div.
Blaw-Knox Co.
Buck Equipment Corp.
Cleveland Formgrader Co.
Dart Manufacturing & Sales Co.
Diamond Tool Associates
Edock Technical Products, Inc.
Essick Manufacturing Co.
Fullerform Mfg. Co. Inc.
Gardner-Denver Co.
Gates & Sons, Inc.
A. C. Horn Companies
Hunt Process Co., Inc.
Ideal Reel Co.
H. J. Krueper Co.
Luderjak Company
Lull Engineering Co.
The Master Builders Co.
No-Joint Concrete Pipe Co.
Remington Arms Co., Inc.
Richmond Screw Anchor Co., Inc.
Soiltest, Inc.
Superior Concrete Accessories, Inc.
Symons Clamp & Mfg. Co.
Universal Form Clamp Co.
Water Seals, Inc.
Western Conveyor Co.
Whiteman Manufacturing Co.

CONCRETE CARTS, Power
Aeroil Products Co., Inc.
American Road Equipment Co.
Chain Belt Co.
Gar-Bro Manufacturing Co.
The Prime-Mover Co.
Whiteman Manufacturing Co.

CONCRETE FINISHERS
Anderson Enterprises, Inc.
Blaw-Knox Co.
Chain Belt Co.
Clary Manufacturing Co.
Cook Bros. Equipment Co.
Dart Manufacturing & Sales Co.
Flexible Road Joint Machine 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 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.
The C. S. Johnson Co.
Kwik-Mix Co.
Mixermobile Manufacturers, Inc.
Mueller Machinery Co., Inc.
The T. L. Smith Co.
Whiteman Manufacturing Co.
Willard Concrete Mch. Sales Co.
Worthington Corp.

CONCRETE PAVERS
Blaw-Knox Co.

Chain Belt Co.
Dotmar Industries, Inc.
Koehring Div. of Koehring Co.
Massey-Ferguson Industrial Div.
Worthington Corp.

CONCRETE PLACING EQUIPMENT

Air Placement Equipment Co.
Blaw-Knox Co.
Buck Equipment Corp.
Chain Belt Co.
Chicago Pneumatic Tool 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.
Tubular Structures Corp. of America
Whiteman Manufacturing Co.
Worthington Corp.

CONCRETE, Precast and Prestressed

American Pipe & Construction Co.
Anderson Enterprises, Inc.
Basalt Rock Co., Inc.
Concrete Technology Corp.
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.
No-Joint Concrete Pipe Co.
Symons Clamp & Mfg. Co.

CONVEYORS, Belt

Barber-Greene Co.
Baughman Mfg. Co., Inc.
Bodinson Manufacturing Co.
Butler Manufacturing Co.
Chain Belt Co.
Clark Industries
Cleveland Formgrader Co.
The Colorado Fuel & Iron Corp.
Concrete Transport Mixer Co.
Dart Manufacturing & Sales Co.
Diamond Iron Works, Div. of Goodman Mfg. Co.
Eagle Crusher Co.
The Fairfield Engineering Co.
Flaherty Manufacturing, Inc.
Goodall Rubber Co.
The Goodyear Tire & Rubber Co.
Guntert & Zimmerman Const. Div., Inc.
Hetherington & Berner, Inc.
Hewitt-Robins, Inc.
Hubart Metal Products Co.
Iowa Manufacturing Co.
The C. S. Johnson 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
Pettibone Mulliken Corp., Pettibone New York Div.
Pioneer Engineering, Div. of Poor & Co.
Simplicity Engineering Co.
Standard Conveyor Co.
Stephens-Adamson Mfg. Co.
Tampo Manufacturing Co.
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.
Butler Manufacturing Co.
Chain Belt Co.
Clark Industries
Cleasby-Wittig Co., Inc.
Cleveland Formgrader Co.
Concrete Transport Mixer Co.
Diamond Iron Works, Div. of Goodman Mfg. Co.
Eagle Crusher Co., Inc.
Eric Strayer Co.
Hetherington & Berner, Inc.
Hewitt-Robins, Inc.
Hubart Metal Products Co.
The C. S. Johnson Co.
Link-Belt Co.
Lippman Engineering Works, Inc.
Miller & Smith Mfg. Co., Inc.
Noble Company
Pettibone Mulliken Corp., Pettibone New York Div.
Pioneer Engineering, Div. of Poor & Co.
Stephens-Adamson Mfg. Co.
Tampo Manufacturing Co.
Universal Engineering Corp.
Western Conveyor Co.

CRANES, Crawler

American Hoist & Derrick Co.
Austin-Western Construction Ept. Div., Baldwin-Lima-Hamilton
Baldwin-Lima-Hamilton Corp.
Construction Equipment Div.
Bucyrus-Erie Co.
Clark Equipment Co.
The Cleveland Trencher Co.
John Deere Industrial Division
Gar Wood Industries, Inc.
The Hanson Clutch & Mach. 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.
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.
Austin-Western Construction Ept. Div., Baldwin-Lima-Hamilton Corp.
Clyde Iron Works, Inc.
Colby Steel & Mfg. Co.
The Hanson Clutch & Mach. Co.
Insley Manufacturing Corp.
R. G. LeTourneau, Inc.
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 Ept. Div., Baldwin-Lima-Hamilton Corp.
Blackhawk Manufacturing Co.
Bucyrus-Erie Co.
Clark Equipment Co.
Daybrook Hydraulic Div., Young Spring & Wire Corp.
FWD Corporation
Gar Wood Industries, Inc.
The Hanson Clutch & Mach. Co.
Hardwicke-Etter 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.
"Quick-Way" Truck Shovel 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.
Willard Concrete Mch. Sales Co.

CRANES, Yard

American Hoist & Derrick Co.
Austin-Western Construction Ept. Div., Baldwin-Lima-Hamilton Corp.
Beatty Scaffold, Inc.
The Hanson Clutch & Mach. Co.
Harnischfeger Corp.
Hughes-Keenan Div., U. S. Air Conditioning Corp.
Hyster Company
Insley Manufacturing Corp.
Kolman Manufacturing Co.
R. G. LeTourneau, Inc.
Link-Belt Speeder Corp.
Northwest Engineering Co.
Ottawa Steel Div., Young Spring & Wire Corp.
Pettibone Mulliken Corp.
Thew Shovel Co.

CRUSHERS

Allis-Chalmers Mfg. Co.
Columbia Steel Casting Co., Inc.
The Conveyor Co.
Diamond Iron Works, Div. of Goodman Mfg. Co.
Eagle Crusher Co., Inc.
El-Jay Mfg. Co., Inc.
Flaherty Manufacturing, Inc.
Iowa Manufacturing Co.
Joy Manufacturing Co.
Lippman Engineering Works, Inc.
Morse Bros. Machinery Co.
Nordberg Manufacturing Co.
Novo Pump & Engine Co.
Pioneer Engineering, Div. of Poor & Co.
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.
El-Jay Mfg. Co., Inc.
Flaherty Manufacturing, Inc.
Hewitt-Robins, Inc.
Iowa Manufacturing Co.
Lippman Engineering Works, Inc.
Nordberg Manufacturing Co.
Pioneer Engineering, Div. of Poor & Co.
Sierra Engineering Co., Inc.
Smith Engineering Works
Stephens-Adamson Mfg. Co.
Straub Manufacturing Co., Inc.
Universal Engineering Corp.
Western Conveyor Co.

CULVERTS

American Pipe & Construction Co.
Armco Drainage & Metal Products, Inc.
Consolidated Western Steel Div., U. S. Steel Corp.
Symons Clamp & Mfg. Co. (Forms)

CUTTING EDGES

(Dozer, Grader & Scraper)
Allis-Chalmers Mfg. Co.
Caterpillar Tractor Co.
The Colorado Fuel & Iron Corp.
Columbia Steel Casting Co., Inc.
Electric Steel Foundry Co.
The Gledhill Road Mch. Co.
Hensley Equipment Co., Inc.
International Harvester Co.
Earle M. Jorgensen Co.
LeTourneau-Westhouse Co.
Shovel Supply Co.
Superior Equipment Co.
Wausau Iron Works

CYLINDERS, Hydraulic and Air

Anthony Company
Atlas Scraper & Engineering Co.
Be-Ge Manufacturing Co.
Blackhawk Manufacturing Co.
Clement-Braswell, Inc.
Commercial Shearing & Stamping Company
Daybrook Hydraulic Div., Young Spring & Wire Corp.
John Deere Industrial Div.
Hercules Steel Products Co. (Hydraulic only)
Monarch Road Machinery Co.
Perfection Steel Body Co.
Rodgers Hydraulic, Inc.
Turlock Iron & Machine Works
Ulrich Manufacturing Co.
Unit Manufacturing Co.
Wagner Iron Works (hydraulic only)
Wausau Iron Works
The Wellman Engineering Co.

D

DEMOLITION TOOLS

Arrow Manufacturing Co.
Atlas Copco, A. B.
Barco Manufacturing Co.
Brunner & Lay Western, Inc.
Brunner & Lay of Portland, Inc.
Chicago Pneumatic Tool Co.
K. O. Duncan Co.
Joy Manufacturing Co.
Ottawa Steel Div., Young Spring & Wire Corp.
R.P.B. Corporation
Shovel Supply Co., Inc.
Williams Bucket Div., The Wellman Engineering Co.

DERRICKS

American Hoist & Derrick Co.
Clyde Iron Works, Inc.
Highway Trailer Co.
Skagit Steel & Iron Works
Superior-Lidgerwood-Mundy Corp.
Yuba Consolidated Industries, Inc.

DIPPERS

Aerol Products Co., Inc.
American Manganese Steel Div.
Electric Steel Foundry Co.

DITCHERS

Arps Corporation
Barber-Greene Co.
Briscoe Manufacturers of Calif.
The Cleveland Trencher Co.
Cone Automatic Machine Co., Inc.
John Deere Industrial Div.
Double J Breaker Co., Inc.
Earth Equipment Corp.
Fullerform Mfg. Co., Inc.
Gar Wood Industries, Inc.
Henry Manufacturing Co., Inc.
Hydraulic Tool & Equipment Co., International Harvester Co., Farm Equipment Div.
Jetco, Inc.
Massey-Ferguson Industrial Div.
The Oliver Corporation
Northwest Engineering Co.
Ottawa Steel Div., Young Spring & Wire Corp.
The Parsons Co.

Shawnee Mfg. Co., Inc.
Sherman Products, Inc.
Townner Manufacturing Co.
Vermeer Manufacturing Co.

DOZERS

Allis-Chalmers Mfg. Co.
The American Coleman Co.
American Tractor Ept. Corp.
Arps Corporation
Austin-Western Construction Ept. Div., Baldwin-Lima-Hamilton Corp.
Be-Ge Manufacturing Co.
J. I. Case Co.
Caterpillar Tractor Co.
Clark Equipment Co.
Cone Automatic Machine Co., Inc.
John Deere Industrial Division
Earth Equipment Corp.
Eimco Corporation
Ford Motor Co., Tractor & Implement Div.
Henry Manufacturing Co., Inc.
Hydraulic Tool & Equipment Co., International Harvester Co.
J. & O. Industries
Joy Manufacturing Co.
LeTourneau-Westhouse Co.
Massey-Ferguson Industrial Div.
Minneapolis-Moline Co.
M-R-S Manufacturing Co.
Napco Industries, Inc.
The Oliver Corporation
Ottawa Steel Div., Young Spring & Wire Corp.
Superior Equipment Co.
Teale & Company
Topeka Hiway Mower, Inc.

DRAGLINES

(See Buckets, Dragline)

DREDGING EQUIPMENT

American Manganese Steel Div.
Bodinson Manufacturing Co.
Clyde Iron Works, Inc.
Eagle Iron Works
Essick Manufacturing Co.
Guntert & Zimmerman Const. Div., Inc.
Hetherington & Berner, Inc.
Rockland Allied Equipment Co.
Williams Bucket Div., The Wellman Engineering Co.
Yuba Consolidated Industries, Inc.

DRILLS, Air

Acker Drill Co., Inc.
Atlas Copco, A. B.
Brunner & Lay Western, Inc.
Chicago Pneumatic Tool Co.
Davey Compressor Co.
Felder Manufacturing Co.
Gardner-Denver Co.
Ingersoll-Rand Co.
Joy Manufacturing Co.
LeRoi Div., WABCO
Mobile Drilling, Inc.
Remington Arms Co., Inc.
Schramm, Inc.
Skil Corporation
Thor Power Tool Co.

DRILLS, Earth

Acker Drill Co., Inc.
Chicago Pneumatic Tool Co.
Davey Compressor Co.
Gardner-Denver Co.
Highway Trailer Co.
Ingersoll-Rand Co.
Kwik-Mix Co., Div. of Koehring Co.
Mobile Drilling, Inc.
McCulloch Corporation
Remington Arms Co., Inc.
The Salem Tool Co.
Sprague & Henwood, Inc.
Thor Power Tool Co.
The Winter-Weiss Co.

DRILLS, Electric

Acker Drill Co., Inc.
Bill Jack Scientific Instrument Co.
The Black & Decker Mfg. Co.
Chicago Pneumatic Tool Co.
Felder Manufacturing Co.
Homelite, Div. of Textron, Inc.
Milwaukee Electric Tool Corp.
Mobile Drilling, 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.
Mobile Drilling, Inc.
Remington Arms Co., Inc.
The Salem Tool Co.
Sprague & Henwood, Inc.
Stanco Mfgs. & Sales, Inc.

DRILLS, Wagon

Brunner & Lay Western, Inc.
Chicago Pneumatic Tool Co.
Gardner-Denver Co.
Ingersoll-Rand Co.
Joy Manufacturing Co.
Le Roi Div., Westhouse Air Brake Co.
Morse Bros. Machinery Co.
Schramm, Inc.
Thor Power Tool Co.
Worthington Corp.

YERS

Barber-Greene Co.
Bodinson Manufacturing Co.
The F. D. Cummer & Son Co.
John Deere Industrial Div.
Eimco Corporation
Hetherington & Berner, Inc.
Iowa Manufacturing Co.
Littleford Bros., Inc.
Madsen Works, Div. of
Baldwin-Lima-Hamilton Corp.
The Oliver Corporation
Pioneer Engineering, Div. of
Poor & Co.
Skill Corporation
Standard Steel Corp.
White Manufacturing Co.

JMP 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.
The Heil Co.
Hercules Steel Products Co.
Hobbs Trailers
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.

JUST COLLECTORS

American Air Filter Co., Inc.
Baldwin-Lima-Hamilton Corp.
Construction Equipment Div.
Barber-Greene Co.
The F. D. Cummer & Son Co.
Harco Manufacturing Co.
Hetherington & Berner, Inc.
Iowa Manufacturing Co.
Joy Manufacturing Co.
Littleford Bros., Inc.
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.
Engine-Material Handling Div.
Bill Jack Scientific Instrument Co.
Caterpillar Tractor Co.
Detroit Diesel Engine Div.,
General Motors Corp.
Forney Industries
Harnischfeger Corp.
Hobart Brothers Co.
Homelite, Div. of Textron, Inc.
Jackson Vibrators, Inc.
Kato 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 Marketing Div.
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.

EVALUATING GRADERS

Austin-Western Const. Equip. Div.,
Baldwin-Lima-Hamilton Corp.
Harnischfeger Corp.
Ulrich Manufacturing Co.

EVATORS

Baughman Mfg. Co., Inc.
Blaw-Knox Co.
Bodinson Manufacturing Co.
Buck Equipment Corp.
Butler Bin Co.
Chain Belt Co.
Clark Industries
Cleasby-Wittig Co., Inc.
The F. D. Cummer & Son Co.
John Deere Industrial Div.
Engineered Equipment, Inc.
Eric Strayer Co.
The Fairfield Engineering Co.
The Heltzel Steel Form & Iron Co.
Hubart Metal Products Co.
Iowa Manufacturing Co.
Itebo, Inc.
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.
Cummings Engine Co., Inc.
John Deere Industrial Div.
Detroit Diesel Engine Div.,
General Motors Corp.
Ford Motor Co.,
Industrial Engine Dept.
Harnischfeger Corp.
Hercules Motors Corp.
Ingersoll-Rand Co.
International Harvester Co.
King-Knight Co.
Minneapolis-Moline Co.
Mississippi Valley Equipment Co.
Murphy Diesel Co.
Nordberg Manufacturing Co.
The Oliver Corporation
D. W. Onan & Sons, Inc.
The Ready-Power Co.
Reo Div., The White Motor Co.
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.
Caterpillar Tractor Co.
Chrysler Marine & Industrial
Engine Div.
Continental Motors Corp.
Dart Manufacturing & Sales Co.
John Deere Industrial Division
Ford Motor Co.,
Industrial Engine Dept.
Ford Truck Div., Ford Motor Co.
Hercules Motors Corp.
Ingersoll-Rand Co.
International Harvester Co.
King-Knight Co.
Kohler Company
Minneapolis-Moline Co.
The Oliver Corporation
D. W. Onan & Sons, Inc.
The Ready-Power Co.
Remington Arms Co., Inc.
Reo Div., The White Motor Co.
Waukesha Motor Co.
White Motor Co.
Willys Motors, Inc.
Wisconsin Motor Corp.
Witte Engine Works,
U. S. Steel Corp.

EXPLOSIVES

Air Placement Eqpt. Co.
(Concrete Placing)
Atlas Powder Co.
Coast Mfg. & Supply Co. (Fuse)
Hercules Powder Co.
Monsanto Chemical Co.

F

FEEDERS

Barber-Greene Co.
Bodinson Manufacturing Co.
The Cleveland Vibrator Co.
The Conveyor Co.
Diamond Iron Works, Div. of
Goodman Mfg. Co.
El-Jay Mfg. Co., Inc.
Hetherington & Berner, Inc.
Hewitt-Robins, Inc.
Iowa Manufacturing Co.
Koehring Co. of California
Link-Belt Co.
Lippmann Engineering Works, Inc.
Madsen Works, Div. of
Baldwin-Lima-Hamilton Corp.
Miller & Smith Mfg. Co., Inc.
Pettibone Mulliken Corp.
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,

FORMS, Curb & Gutter

Acrow California, Inc.
American-Marietta Co.,
Presstite Div.
Blaw-Knox Co.
Browning Manufacturing Co.
Chain Belt Co.
Clark Industries
Dotmar Industries, Inc.
The Heltzel Steel Form & Iron Co.
Metal Forms Corp.
Symons Clamp & Mfg. Co.

FORMS, Pre-Fab Panel

Acrow California, Inc.
Economy Forms Corp.
Gates & Sons, Inc.

Simplex Forms System, Inc.
Soule Steel Co.
Superior Concrete Accessories,
Inc.
Symons Clamp & Mfg. Co.
Universal Form Clamp Co.
FORMS, Steel
Acrow California, Inc.
Blaw-Knox Co.
Chain Belt Co.
Chicago Bridge & Iron Co.
Clark Industries
Commercial Shearing &
Stamping Co.
The Conveyor Co.
Dixie Form & Steel Co.
Economy Forms Corp.
Guntert & Zimmerman Const.
Div., Inc.
Inland Steel Products Co.
Metal Forms Corp.
Soule Steel Co.
Symons Clamp & Mfg. Co.
Willard Concrete Mch. Sales Co.
Yuba Consolidated Industries, Inc.

FRONT END LOADERS, Crawler

Allis-Chalmers Mfg. Co.
American Tractor Eqpt. Corp.
J. I. Case Co.
Caterpillar Tractor Co.
John Deere Industrial Division
Eimco Corporation
Henry Manufacturing Co., Inc.
The Frank G. Hough Co.
International Harvester Co.
J. & O. Industries
Joy Manufacturing Co.
Koehring Div. of Koehring Co.
Minneapolis-Moline Co.
The Oliver Corporation
Teale & Company
Ulrich Mfg. Co.
Wagner Iron Works
The Warner & Swasey Co.

FRONT END LOADERS, Rubber

Tired
Allis-Chalmers Mfg. Co.,
Construction Machinery Div.
American Road Equipment Co.
J. I. Case Co.
Caterpillar Tractor Co.
Clark Equipment Co.
John Deere Industrial Division
Euclid Div., General Motors Corp.
Ford Motor Co., Tractor &
Implement Div.
Henry Manufacturing Co., Inc.
The Frank G. Hough Co.
International Harvester Co.
The Jaeger Machine Co.
R. G. LeTourneau, Inc.
Lull Engineering Co.
Massey-Ferguson, Industrial Div.
Minneapolis-Moline Co.
Mixermobile Manufacturers, Inc.
The Oliver Corporation
Ottawa Steel Div., Young Spring
& Wire Corp.
PB Loader Mfg. Co.
(Truck mounted)
Pettibone Mulliken Corp.
Shawnee Manufacturing Co.
Sherman Products, Inc.
Superior Equipment
Thew Shovel Co.
Topeka Hiway Mower, Inc.
Wagner Iron Works
The Warner & Swasey Co.
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
Clement-Braswell, Inc.
Consolidated Western Steel Div.,
U. S. Steel Corp.
Daybrook Hydraulic Div.,
Young Spring & Wire Corp.
The Fairfield Engineering Co.
Fullerform Mfg. Co., Inc.
Gar-Bro Manufacturing Co.
Gar Wood Industries, Inc.
Hardy Scales Co.
Hercules Steel Products 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.
Straub Manufacturing Co., Inc.
Universal Engineering Corp.
Yuba Consolidated Industries, Inc.

GENERATOR SETS

(See Electric Generator Sets)

GRADERS

Allis-Chalmers Mfg. Co.
Austin-Western Construction
Eqpt. Div., Baldwin-Lima-
Hamilton Corp.

Briscoe Mfrs. of California
Caterpillar Tractor Co.
Cleveland Formgrader Co.
Earthcavator Co., Inc.
Galion Iron Works & Mfg. Co.
The Gledhill Road Machinery Co.
Hensley Equipment Co., Inc.
Huber-Warco Co.
LeTourneau-Westinghouse Co.
Pettibone Mulliken Corp.
Pettibone New York Div.
Seaman-Gunnison Corp.
Sherman Products, Inc.

GRAPPLIES

American Logging Tool Corp.
Electric Steel Foundry Co.
Joy Manufacturing Co.
M. P. McCaffrey, Inc.
The Owen Bucket Co.
Schield Bantam Co.
The Skookum Co., Inc.
Superior-Lidgerwood-Mundy Corp.
The Wellman Engineering Co.
Young Iron Works

GRAVEL PLANTS

(See Crushing and Screening
Plants)

GRINDERS, Concrete

Chicago Pneumatic Tool Co.
The Concrete Surfacing
Machinery Co.
Dart Manufacturing & Sales Co.
Diamond Tool Associates
Kelley Machine Div.,
Wiesner-Rapp Co., Inc.
Marvel Equipment Corp.
Remington Arms Co., Inc.
Skill Corporation
Stow Manufacturing Co.
Thor Power Tool Co.
White Manufacturing Co.

GRINDERS, Drill Steel

Atlas Copco, A. B.
The Black & Decker Mfg. Co.
Brunner & Lay-Western, Inc.
Joy Manufacturing Co.
Sandvikens Jernverks, A. B.
Skill Corporation
Thor Power Tool Co.

GUARD RAILS, Highway

Armco Drainage & Metal
Products, Inc.
The Commercial Shearing
& Stamping Co.
Consolidated Western Steel Div.,
U. S. Steel Corp.
L. B. Foster Co.
Hawkins-Hawkins Co., Inc.
Marwais Steel Co.
Traffic Equipment Co.
United Steel Fabricators, Inc.

H

HEATERS, Portable

Aerol Products Co., Inc.
American Air Filter Co., Inc.
Bros Incorporated
Clayton Manufacturing Co.
Cleaver-Brooks Co.
W. E. Grace Mfg. Co.
Hauck Manufacturing Co.
Kelley Machine Div.,
Wiesner-Rapp Co., Inc.
Littleford Bros., Inc.
Malsbury Manufacturing Co.
Master Vibrator Co.
McConaughay Mixers, Inc.
Morrison-Pelsue Co.
Muller Machinery Co., Inc.
Stow Manufacturing Co.

HIGHWAY WIDENERS

Barber-Greene Co.
Blaw-Knox Co.
The Burch Corp.
The Cleveland Trencher Co.
Dotmar Industries, Inc.
Flaherty Manufacturing, Inc.
Gar Wood Industries, Inc.

HOISTS

Aerol Products Co., Inc.
Aluminum Body Corp.
American Chain & Cable Co., Inc.
American Hoist & Derrick Co.
Anthony Company
Atlas Copco, A. B.
Beebe Bros.
Bodinson Manufacturing Co.
Buck Equipment Corp.
C. H. & E. Manufacturing Co.
Chicago Pneumatic Tool Co.
Cleasby-Wittig Co., Inc.
Clipper Manufacturing Co.
Clyde Iron Works, Inc.
Coffing Hoist Division
Construction Machinery Co.
Cook Bros. Equipment Co.
Daybrook Hydraulic Div., Young
Spring & Wire Corp.
Douglas Motors Corp.
Duff-Norton Co.
Eimco Corporation
Engineered Equipment, Inc.
Essick Manufacturing Co.
Galion Allsteel Body Co.
Gar Wood Industries, Inc.
Gardner-Denver Co.
Griphoist, Inc.

Harnischfeger Corp.
The Heil Co.
Hercules Steel Products Co.
Hewitt-Robins, Inc.
Highway Trailer Co.
Ingersoll-Rand Co.
The Jaeger Machine Co.
Joy Manufacturing Co.
R. G. LeTourneau, Inc.
Monatco Manufacturing Corp.
Morse Bros. Machinery Co.
Muller Machinery Co., Inc.
Novo Pump & Engine Co.
Perfection Steel Body Co.
Sauerman Bros., Inc.
Skagit Steel & Iron Works
The Skookum Co., Inc.
S. Morgan Smith Co.
Stanco Mfgs. & Sales, Inc.
Stephens-Adamson Mfg. Co.
Sterling Machinery Co.
Superior-Lidgerwood-Mundy Corp.
Thor Power Tool Co.
Tubular Structures Corp.
of America
Unit Manufacturing Co.
Universal Manufacturing Corp.
Yale & Towne Mfg. Co.
Yuba Consolidated Industries, Inc.

HOSE

Aeroquip Corp.
Alemite Div., Stewart-Warner Corp.
The American Rubber Mfg. Co.
American Tractor Equip. Corp.
Chicago Pneumatic Tool Co.
Eimco Corporation
The Gates Rubber Co.
Goodall Rubber Co.
The Goodyear Tire & Rubber Co.
Gray Company, Inc.
Hewitt-Robins, Inc.
Joy Manufacturing Co.
H. K. Porter Co., Inc., Thermoid Div.
Thor Power Tool Co.
United States Rubber Co.
Wausau Iron Works

HYDRAULIC COUPLINGS

Aeroquip Corp.
American Tractor Equip. Corp.
Dixon Valve & Coupling Co.
Monarch Road Machinery Co.
Rodgers Hydraulic, Inc.
Templeton, Kenly & Co.
Thor Power Tool Co.
Ulrich Manufacturing Co.
Victaulic Co. of America
Wausau Iron Works

JACKS

Anderson Enterprises, Inc.
Beaver-Advance Corp.
Blackhawk Manufacturing Co.
Brannick Manufacturing Co.
Duff-Norton Co.
K. O. Duncan Co.
Edgewater Automotive Division
B. M. Heede, Inc.
Monarch Road Machinery Co.
Rodgers Hydraulic, Inc.
Superior Scaffold Co.
Templeton, Kenly & Co.

JACKS, MUD

Koehring Div. of Koehring Co.

L

LOADERS

(See Front End Loaders, Elevating Graders)

LUBRICATING EQUIPMENT

Alemite Div., Stewart-Warner Corp.
Gardner-Denver Co.
Gray Company, Inc.
Lincoln Engineering Co.
Victor Equipment Co.

P

PILE DRIVERS & EXTRACTORS

Atlas Copco, A. B.
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.
Littleford Bros., Inc.
Marion Power Shovel Co.
McKiernan-Terry Corp.
Mississippi Valley Equipment Co.
Schield Bantam Co.
Vuican Iron Works, Inc.

PILES

Armco Drainage & Metal Products, Inc.
Concrete Technology Corp.
L. B. Foster Co.
Ben C. Gerwick, Inc.
Mississippi Valley Equipment Co.
Yaun Manufacturing Co., Inc.

POWDER ACTUATED TOOLS

(See Tools, Powder Actuated)

PULVERIZERS, Traveling

Arrow Manufacturing Co.
Lippmann Engineering Works,
Perfection Steel Body Co.
Pettibone-Wood Mfg. Co.
Seaman-Andwall Corp.
Sherman Products, Inc.

PUMPS

Acker Drill Co., Inc.
Allis-Chalmers Mfg. Co.
American Tractor Equip. Corp.
Anthony Company
Barnes Manufacturing Co.
Be-Ge Manufacturing Co.
(Powder 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.
E. D. Etnyre & Co.
Gardner-Denver Co.
The Gorman-Rupp Co.
Gray Company, Inc.
B. M. Heede, Inc.
Hetherington & Berner, Inc.
Homelite, Div. of Textron, Inc.
Ingersoll-Rand Co.
The Jaeger Machine Co.
King-Knight Co.
Le Roi Div., WABCO
Littleford Bros., Inc.
Marlow Pumps, Div. of Bell & Gossett Co.
McConaughay Mixers, Inc.
Minneapolis-Moline Co.
Monarch Road Machinery Co.
Moretrench Corporation
Morse Bros. Machinery Co.
Novo Pump & Engine Co.
Pacific Pumping Co.
Peerless Pump Div., Food Mach. & Chemical Corp.
Porto Pumps, Inc.
Quincy Compressor Co.
Rice Pump & Machine Co.
Schrann, Inc.
S. Morgan Smith Co.
Stanco Mfgs. & Sales, Inc.
John W. Stang Corp.
Sterling Machinery Co.
Svenska Motorbör Aktiebolaget
Templeton, Kenly & Co.
Thor Power Tool Co.
Wausau Iron Works
Western Machinery Co.
Worthington Corp.

R

RIPPERS & SCARIFIERS

Allis-Chalmers Mfg. Co., Construction Machinery Div.
American Steel Foundries
American Tractor Equip. 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
Double J Breaker Co., Inc.
Ford Motor Co., Tractor & Implement Div.
Greenvile Steel Car Co.
H & L Tooth Co.
Hensley Equipment Co., Inc.
Hydraulic Tool & Equip. Co., Inc.
LeTourneau-Westinghouse Co.
Massey-Ferguson, Inc.
Monatco Manufacturing Corp.
The Oliver Corporation
Rockland Allied Equipment Co.
E. A. Rogers Co.
Seaman-Gunnison Corp.
Southwest Welding & Mfg. Div.
Superior Equipment
Teale & Company
Towner Mfg. Co.
Young Iron Works

ROAD MIXERS

(See Soil Stabilizing Machines)

ROCK BITS

Acker Drill Co., Inc.
Atlas Copco, A.B.
Brunner & Lay-Western, Inc.
Brunner & Lay of Portland, Inc.
Chicago Pneumatic Tool Co.
Diamond Tool Associates
Gardner-Denver Co.
Hensley Equipment Co., Inc.
Ingersoll-Rand Co.
Joy Manufacturing Co.
Sandvikens Jernverks, A.B.
Stanco Mfgs. & Sales, Inc.
Thor Power Tool Co.
Timken Roller Bearing Co.
Western Rock Bit Mfg. Co.

ROLLERS, Pneumatic

Acme Iron Works
Bros Incorporated
Browning Manufacturing Co.
Buffalo-Springfield Co.

Chester Products, Inc.
Flaherty Manufacturing, Inc.
The Galion Iron Works & Mfg. Co.
The Gledhill Road Mch. Co.
W. E. Grace Mfg. Co.
Rosco Manufacturing Co.
Seaman-Andwall Corp.
Seaman-Gunnison Corp.
Shovel Supply Co., Inc.
Southwest Welding & Mfg. Div.
Tampro Manufacturing Co.

ROLLERS, Segmented Wheel & Grid

Buffalo-Springfield Co.
Cleveland Formgrader Co.
Hyster Company
Shovel Supply Co., Inc.

ROLLERS, Sheepfoot

Allis-Chalmers Mfg. Co., Construction Machinery Div.
Bros Incorporated
Browning Manufacturing Co.
Chester Products, Inc.
W. E. Grace Mfg. Co.
Koehring Co. of California
LeTourneau-Westinghouse Co.
M. P. McCaffrey, Inc.
Rockland Allied Equipment Co.
Shovel Supply Co., Inc.
Southwest Welding & Mfg. Div.
Tampro Manufacturing Co.

ROLLERS, Steel

Acme Iron Works
The American Coleman Co.
Austin-Western Construction Eqpt. Div., Baldwin-Lima-Hamilton Corp.
Browning Manufacturing Co.
Buffalo-Springfield Co.
C. H. & E. Manufacturing Co.
Essick Manufacturing Co.
Douglas Motors Corp.
The Galion Iron Works & Mfg. Co.
Hensley Equipment Co., Inc.
Huber-Warco Co.
Littleford Bros., Inc.
Rosco Manufacturing Co.
Seaman-Andwall Corp.
Seaman-Gunnison Corp.
Shovel Supply Co., Inc.
Standard Conveyor Co.
Standard Steel Works, Inc.

ROLLERS, Vibrating

Austin-Western Construction Eqpt. Div., Baldwin-Lima-Hamilton Corp.
Bros Incorporated
Browning Manufacturing Co.
Buffalo-Springfield Co.
Douglas Motors Corp.
Essick Manufacturing Co.
The Galion Iron Works & Mfg. Co.
Iowa Manufacturing Co.
Rosco Manufacturing Co.
Seaman-Gunnison Corp.
Shovel Supply Co., Inc.
Tampro Manufacturing Co.
Vibro-Plus Products, Inc.

ROLLERS, Vibrating Sled

Jackson Vibrators, Inc.
Seaman-Gunnison Corp.
Vibro-Plus Products, Inc.

RUBBER PRODUCTS

The American Rubber Mfg. Co.
Firestone Tire & Rubber Co.
The Gates Rubber Co.
Goodall Rubber Co.
The B. F. Goodrich Co.
The Goodyear Tire & Rubber Co.
Hewitt-Robins, Inc.
H. K. Porter Co., Inc., Thermoid Div.
United States Rubber Co.

S

SAND BLASTING EQUIPMENT

Air Placement Equipment Co.
Cyclone Sandblast Equipment Co.
Sanstorm 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.
De Walt Division, AMF
Diamond Tool Associates
Homelite, Div. of Textron, Inc.
Ingersoll-Rand Co.
McCulloch Corporation
Milwaukee Electric Tool Corp.
Remington Arms Co., Inc.
Rockland Allied Equipment Co.
Skill Corporation
Thor Power Tool Co.
Wallace Supplies Mfg. Co.

SCAFFOLDING

Acrow California, Inc.
Beatty Scaffold, Inc.
Beaver-Advance Corp.
Morgen Manufacturing Co.
The Patent Scaffolding Co.
Safway Steel Products, Inc.
Superior Scaffold Co.
Symons Clamp & Mfg. Co.
Tubular Structures Corp.
of America
Universal Manufacturing Corp.

SCRAPERS

Allis-Chalmers Mfg. Co.
American Tractor Equip. 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
Earthcaver Co., Inc.
Euclid Div., General Motors Corp.
Ford Motor Co., Tractor & Implement Div.
The Gledhill Road Mch. Co.
Greenville Steel Car Co.
Hydraulic Tool & Equipment Co., Inc.
International Harvester Co.
Joy Manufacturing Co.
LeTourneau-Westinghouse Co.
M-R-S Manufacturing Co.
Sauerman Bros., Inc.
Seaman-Gunnison Corp.
Superior Equipment Co.
Wagner Iron Works

SCREEDS

Blaw-Knox Co.
Clary Manufacturing Co.
Dart Manufacturing & Sales Co.
Jackson Vibrators, Inc.
Maginniss Power Tool Co.
(Vibrating)
Master Vibrator Co. (Vibrating)
Stow Manufacturing Co.
(Vibrating)
Thor Power Tool Co.
H. S. Watson Co.
Whiteman Manufacturing Co.

SCREENS

Barber-Greene Co.
Bodinson Manufacturing Co.
The Colorado Fuel & Iron Corp.
The Conveyor Co.
Diamond Iron Works, Div. of Goodman Mfg. Co.
Dorr-Oliver, Inc.
Gumert & Zimmerman Const. Div., Inc.
Iowa Manufacturing Co.
Overstrom & Sons, Inc.
Simplicity Engineering Co.
Smith Engineering Works
Stephens-Adamson Mfg. Co.
Universal Engineering Corp.
Western Conveyor Co.
Yuba Consolidated Industries, Inc.

SCREENS, Vibrating

Allis-Chalmers Mfg. Co.
Baldwin-Lima-Hamilton Corp., Construction Equipment Div.
Barber-Greene Co.
Bodinson Manufacturing Co.
Diamond Iron Works, Div. of Goodman Mfg. Co.
El-Jay Mfg. Co., Inc.
Hetherington & Berner, Inc.
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.
Western Conveyor Co.

Shore Equipment Co., Inc.
Simplicity Engineering Co.
Smith Engineering Works
Stephens-Adamson Mfg. Co.
Symons Brothers Co.
Universal Engineering Corp.
Vibro-Plus Products, Inc.
Western Conveyor Co.

Shore Equipment Co., Inc.
Simplicity Engineering Co.
Smith Engineering Works
Stephens-Adamson Mfg. Co.
Symons Brothers Co.
Universal Engineering Corp.
Vibro-Plus Products, Inc.
Western Conveyor Co.

Shore Equipment Co., Inc.
Simplicity Engineering Co.
Smith Engineering Works
Stephens-Adamson Mfg. Co.
Symons Brothers Co.
Universal Engineering Corp.
Vibro-Plus Products, Inc.
Western Conveyor Co.

SHEEPSFOOT ROLLERS

(See Rollers, Sheepfoot)

SHORES

Acrow California, Inc.
Beatty Scaffold, Inc.
Beaver-Advance Corp.
The Patent Scaffolding Co., Inc.
Safway Steel Products, Inc.
Spanall of the Pacific, Inc.
Superior Scaffold Co.
Symons Clamp & Mfg. Co.
Tubular Structures Corp.
of America
Universal Manufacturing Corp.

SHOVELS, Backhoe

American Hoist & Derrick Co.
Baldwin-Lima-Hamilton Corp., Construction Equipment Div.
Bucyrus-Erie Co.
J. I. Case Co.

one 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.
 Hardwicke-Etter Co.
 Harnischfeger Corp.
 Henry Manufacturing Co., Inc.
 The Frank G. Hough Co.
 Hyster Company
 Ingersoll Manufacturing Corp.
 International Harvester Co.
 J. & O. Industries
 Koehring Div. of Koehring Co.
 Link-Belt Speeder Corp.
 Little Giant Crane & Shovel, Inc.
 Manitowoc Engineering Corp.
 Marion Power Shovel Co.
 Massey-Ferguson Industrial Div.
 Minneapolis-Moline Co.
 Mississippi Valley Equipment Co.
 Northwest Engineering Co.
 The Oliver Corporation
 Ottawa Steel Div., Young Spring
 & Wire Corp.
 Quick-Way" Truck Shovel Co.
 Shield Bantam Co.
 Schramm, Inc.
 Shovel Co.
 Unit Crane & Shovel Corp.
 Wagner Iron Works
 The Warner & Swasey Co.
 Young Iron Works

OVELS, Overshot
 Cimco Corporation
 B Loader Mfg. Co.
 (Self-Loader)

OVELS, Power
 American Hoist & Derrick Co.
 Baldwin-Lima-Hamilton Corp.,
 Construction Equipment Div.
 Day City Shovels, Inc.
 Bucyrus-Erie Co.
 Columbia Steel Casting Co., Inc.
 Gar Wood Industries, Inc.
 The Hanson Clutch & Mch. Co.
 Hardwicke-Etter Co.
 Harnischfeger Corp.
 Ingersoll Manufacturing Corp.
 Koehring Div. of Koehring Co.
 Link-Belt Speeder Corp.
 Little Giant Crane & Shovel, Inc.
 Manitowoc Engineering Corp.
 Marion Power Shovel Co.
 Mississippi Valley Equipment Co.
 Northwest Engineering Co.
 Age Engineering Co.
 Quick-Way" Truck Shovel Co.
 Shield Bantam Co.
 Shovel Co.
 Unit Crane & Shovel Corp.

OVELS, Telescoping Booms
 Bucyrus-Erie Co.
 The Warner & Swasey Co.

NS
 See Traffic Control Devices)

FORMS
 Main Belt Co.
 Guntert & Zimmerman
 M. Heede, Inc.
 Co-Joint Concrete Pipe Co.

W PLOWS
 Allis-Chalmers Mfg. Co.
 Austin-Western Construction
 Eqpt. Div., Baldwin-Lima-
 Hamilton Corp.
 os Incorporated
 The Burch Corp.
 John Deere Industrial Division
 Douglas Motors Corp.
 Ford Motor Co.
 Tractor & Implement Div.
 The Galion Iron Works &
 Mfg. Co.
 General Engines Co., Inc.
 The Gledhill Road Machinery Co.
 Good Roads Machinery Corp.
 The Frank G. Hough Co.
 International Harvester Co.,
 Farm Equipment Div.
 LeTourneau-Westinghouse Co.
 Shkosh Motor Truck, Inc.
 eific Car & Foundry Co.
 tward F. Taylor Co.
 Topeka Hiway Mower, Inc.
 ro Manufacturing Corp.
 agner Iron Works
 alter Motor Truck Co.
 ausau Iron Works

STABILIZING MACHINES
 rber-Greene Co.
 rco Manufacturing Co.
 oughman Mfg. Co., Inc.
 os Incorporated
 gle Iron Works
 rnschfeger Corp.
 urtherington & Berner, Inc.
 wa Manufacturing Co.
 ttibone-Wood Mfg. Co.
 neer Engineering Div. of
 Poor & Co.
 aman-Andwall Corp.
 aman-Gunnison Corp.

ADERS, Aggregate
 Placement Equipment Co.

Baughman Mfg. Co., Inc.
 Blaw-Knox Co.
 The Burch Corp.
 John Deere Industrial Division
 Flaherty Manufacturing, Inc.
 Gar Wood Industries, Inc.
 The Gledhill Road Mch. Co.
 Good Roads Machinery Corp.
 W. E. Grace Mfg. Co.
 Highway Equipment Co.
 The Jaeger Machine Co.
 Jebco, Inc.
 Littleford Bros., Inc.
 McConaughay Mixers, Inc.
 Pettibone-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
 American Pipe & Construction Co.
 Armo Drainage & Metal
 Products, Inc.
 Atlas Scraper & Engineering Co.
 Behlen Manufacturing Co.
 Bethlehem Steel Co.
 Butler Manufacturing Co.
 A. M. Byers Co.
 Carew Steel 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.
 Joseph T. Ryerson & Son, Inc.
 San Jose Steel Co., Inc.
 Soule Steel Co.
 The Steelcraft Mfg. Co.
 United Steel Fabricators, Inc.
 Wagner Iron Works
 Wausau Iron Works
 Western Conveyor Co.
 Wonder Building Corp. of America
 (Buildings only)
 Yuba Consolidated Industries, Inc.
 Ziegler Steel Service Corp.

STRAPPING, Steel
 Wausau Iron Works
 Yuba Consolidated Industries, Inc.

SUB GRADERS
 Austin-Western Const. Eqpt. Div.,
 Baldwin-Lima-Hamilton Corp.
 Blaw-Knox Co.
 Cleveland Formgrader Co.
 Flexible Road Joint Machine Co.
 Guntert & Zimmerman Const.
 Div., Inc.
 Koehring Co. of California
 Seaman-Gunnison Corp.
 Shovel Supply Co., Inc.
 Standard Steel Corp.

T

TAGLINES
 Electric Steel Foundry Co.
 McCaffrey-Ruddock Tagline Corp.
 Miller Swivel Products, Inc.
 Young Iron Works

TAMPERS
 Aeroil Products Co., Inc.
 Arrow Manufacturing Co.
 Barco Manufacturing Co.
 Bars Incorporated
 Brunner & Lay of Portland, Inc.
 Chester Products, Inc.
 Chicago Pneumatic Tool Co.
 Cleveland Formgrader Co.
 The Cleveland Trencher Co.
 Dart Manufacturing & Sales Co.
 Homelite, Div. of Textron, Inc.
 Ingersoll-Rand Co.
 The International Vibration Co.
 (Vibratory)
 Jay Co., Div. of J. Leukart
 Machine Co., Inc.
 Joy Manufacturing Co.
 Kelley Machine Div.,
 Wiesner-Rapp Co., Inc.
 Le Roi Div.,
 Westinghouse Air Brake Co.
 Maginnis Power Tool Co.
 Master Vibrator Co.
 Ottawa Steel Div.,
 Young Spring & Wire Corp.
 R. P. B. Corporation
 Schield Bantam Co.
 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
 Firestone Tire & Rubber Co.
 The Gates Rubber Co.
 The General Tire & Rubber Co.
 The B. F. Goodrich Co.

The Goodyear Tire & Rubber Co.
 United States Rubber Co.

TOOLS, Air
 Arrow Tools, Inc.
 Atlas Copco, A.B.
 Brunner & Lay-Western, Inc.
 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.
 Remington Arms Co., Inc.
 Schramm, Inc.
 Skil Corporation
 Thor Power Tool Co.
 Worthington Corp.

TOOLS, Electric
 Bill Jack Scientific Instrument Co.
 The Black & Decker Mfg. Co.
 Chicago Pneumatic Tool Co.
 The Concrete Surfacing Mch. Co.
 De Walt Division, AMF
 Homelite, Div. of Textron, Inc.
 Ingersoll-Rand Co.
 Milwaukee Electric Tool Corp.
 Skil Corporation
 Thor Power Tool Co.

TOOLS, Powder Actuated
 Comet Manufacturing Co.
 Omark Industries, Inc.
 Ramset Fastening System
 Remington Arms Co., Inc.

TRACTOR ATTACHMENTS
 Allis-Chalmers Mfg. Co.,
 Construction Machinery Div.
 American Road Equipment Co.
 Arps Corporation
 J. I. Case Co.
 Caterpillar Tractor Co.
 Clark Equipment Co.
 Columbia Steel Casting Co., Inc.
 John Deere Industrial Division
 Dependaloy Tractor Parts Co.
 Double J Breaker Co., Inc.
 Eimco Corporation
 Electric Steel Foundry Co.
 Ford Motor Co.,
 Tractor & Implement Div.
 Gar Wood Industries, Inc.
 Henry Manufacturing Co., Inc.
 Hensley Equipment Co., Inc.
 The Frank G. Hough Co.
 Hydraulic Tool & Equip. Co., Inc.
 Hyster Company
 International Harvester Co.
 J. & O. Industries
 Lull Engineering Co.
 Massey-Ferguson Industrial Div.
 Minneapolis-Moline Co.
 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.
 Topeka Hiway Mower, Inc.
 Toro Manufacturing Corp.
 Ulrich Manufacturing Co.
 Utility Steel Foundry
 Wagner Iron Works
 The Warner & Swasey Co.
 Young Iron Works

TRACTORS, Crawler
 Allis-Chalmers Mfg. Co.
 Briscoe Mfrs. of California
 J. I. Case Co.
 Caterpillar Tractor Co.
 John Deere Industrial Division
 Eimco Corporation
 Euclid Div., General Motors Corp.
 International Harvester Co.
 J. & O. Industries
 Minneapolis-Moline Co.
 The Oliver Corporation
 The Warner & Swasey Co.
 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.
 FWD Corporation
 The Frank G. Hough Co.
 International Harvester Co.
 R. G. LeTourneau, Inc.
 LeTourneau-Westinghouse Co.
 M-R-S Manufacturing Co.
 Massey-Ferguson Industrial Div.
 Minneapolis-Moline Co.
 Napco Industries, Inc.
 The Oliver Corporation
 Ottawa Steel Div.,
 Young Spring & Wire Corp.
 Topeka Hiway Mower, Inc.
 Wagner Tractor, Inc.
 Walter Motor Truck Co.
 The Warner & Swasey Co.
 White Motor Co.

TRAFFIC CONTROL DEVICES
 (Signs, Flashers, Reflectors,
 Barricades)

R. E. Dietz Co.
 Falcon Alarm Co., Inc.
 Flash-r-Lite Corp.
 Hawkins & Hawkins Co.
 Minnesota Mining & Mfg. Co.
 Neo-Flasher Mfg. Co.
 Owl-Lite Pacific
 Pacific Mercury Marketing Div.
 Traffic Equipment Co.
 Zumar Industries, Inc.

TRAILERS
 Aluminum Body Corp.
 Anthony Company
 Athey Products Corp.
 Baughman Mfg. Co., Inc.
 Butler Manufacturing Co.
 C. H. & E. Manufacturing Co.
 J. I. Case Co.
 Clement-Braswell, Inc.
 Cook Bros. Equipment Co.
 John Deere Industrial Division
 F.A.B. Manufacturing Corp.
 Fruehauf Trailer Co.
 Fuller Manufacturing Co.
 Galion Allsteel Body Co.
 General Engines Co., Inc.
 The Hanson Clutch & Mch. Co.
 The Heil 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.
 Reliance Trailer & Truck Co., Inc.
 Richardson Homes Corp.
 Rogers Brothers Corp.
 Selma Trailer & Mfg. Co.
 Talbert Trailers, Inc.
 Trailmobile, Inc.
 Transport Trailers, Inc.
 Utility Trailer Mfg. Co.
 The Winter-Weiss 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.
 Galion Allsteel Body Co.
 Hercules Steel Products Co.
 The Jaeger Machine Co.
 McConaughay Mixers, Inc.
 Oshkosh Motor Truck, Inc.
 Reo Div., The White Motor Co.
 The T. L. Smith Co.
 White Motor Co.
 Whiteman Manufacturing Co.
 Willard Concrete Machinery
 Sales Co.

TRUCKS
 The American Coleman Co.
 Chevrolet Motor Div.,
 General Motors Corp.
 Clark Equipment Co.
 Cook Bros. Equipment Co.
 Curtiss-Wright Corp.,
 South Bend Div.
 Dodge Div., Chrysler Corp.
 Euclid Div., General Motors Corp.
 F.A.B. Manufacturing Co.
 Ford Truck Co., Ford Motor Co.
 FWD Corporation
 Fuller Manufacturing Co.
 GMC Truck & Coach Div.,
 General Motors Corp.
 Hardwicke-Etter Co.
 International Harvester Co.
 KW-Dart Truck Co.
 Kenworth Motor Truck Co.
 Koehring Div. of Koehring Co.
 R. G. LeTourneau, Inc.
 LeTourneau-Westinghouse Co.
 Mack Trucks, Inc.
 Marmon-Herrington Co., Inc.
 Napco Industries, Inc.
 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, Fork Lift
 Allis-Chalmers Mfg. Co.,
 Engine-Material Handling Div.
 American Road Equipment Co.
 J. I. Case Co.
 John Deere Industrial Div.
 Dodge Div., Chrysler Corp.
 Henry Manufacturing Co., Inc.
 Hyster Company
 International Harvester Co.
 Kwik-Mix Co.
 Massey-Ferguson, Inc.
 Napco Industries, Inc.

Power-Pak Napco Axle Division
 Powersteel Broderick & Bascom Rope Co.
 Power Vane Chicago Pneumatic Tool Co.
 Pozzolith The Master Builders 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.
 Purplecrete Chain Belt Co.
 Purple Strand Bethlehem Steel Co.

Q

Quick-Drive Omark Industries, Inc.
 Quick-Lift Coffing Hoist Div.
 Quick Pipe R. H. Pierce Mfg. Co.
 Qwik-Way Electronic Specialties Co., Inc.

R

RC Link-Belt Co.
 Radicon David Brown, Inc.
 RailAid Koehring Div. of Koehring Co.
 Railporter Chain Belt Co.
 Ram-A-Rod Henry Mfg. Co., Inc.
 Ranite Rankin Manufacturing Co.
 Ranomatic Rankin Manufacturing Co.
 Rantung Rankin Manufacturing Co.
 Rapak Racine Hydraulics & Machinery, Inc.
 Rapid Fire W. E. Grace Mfg. Co.
 Ready-Cut Eveready Brikaw Co.
 Ready-Span Joy Manufacturing Co.
 Red Seal Continental Motors Corp.
 Red Strand Leschen Rope Div.
 Redicote Armour Industrial Chemical Co.
 Redi-Fab Barber-Greene Co.
 Redler Stephens-Adamson Mfg. Co.
 Remotrol Templeton, Kenly & Co.
 Resinoid Felker Manufacturing Co.
 Restfoam Hewitt-Robins, Inc.
 Rex Chain Belt Co.
 Rimlock Felker Manufacturing Co.
 Rixford American Logging Tool Corp.
 Roadmaster Wylie Mfg. Co., Inc.
 Robak Hardy Scales Co.
 Roc-Jak K. O. Duncan Co.
 Rock Ram Lippman Engineering Works
 RockerShovel Eimco Corp.
 Rocket Concrete Transport Mixer Co.
 Ro-Drain Consolidated Western Steel Div.
 Roeclad U. S. Steel Corp.
 Roeoord John A. Roebbling's Sons Corp.
 Roewald John A. Roebbling's Sons Corp.
 Roiline John A. Roebbling's Sons Corp.
 Rola-Paver H. S. Watson Co.
 Rolcor Rosco Manufacturing 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., Rolcor Div.
 Rol-Toe Templeton, Kenly & Co.
 Ross Snow Plows The Burch Co.
 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-Imp Bill Jack Scientific Instrument Co.
 Roto-Mixer Bros Incorporated
 Roto Pamics Farr Company
 Roto-Trowel Stow Manufacturing Co.
 Roto-Valves S. Morgan Smith Co.
 Roust-A-Bout Victaulic Co. of America
 Ro-Way Rowe Manufacturing Co.
 Royal Blue John A. Roebbling's Sons Corp.
 Royal Blue John A. Roebbling's Sons Corp.
 Roustabout Hughes-Keenan Corp.
 Royal Crown Madsen Works
 Rubberide Utility Trailer Mfg. Co.
 Ruby Koehring Co. of California
 Rud-O-Matic McCaffrey-Ruddock Tagline Co.
 Runabout Barber-Greene Co.
 Runabout Cook Bros. Equipment Co.
 Rusco Friction Materials 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 Ept. Co.
 Sawzall Milwaukee Electric Tool Corp.
 Scarl-Plow Towner Mfg. Co.
 Scaf-O-Matic Universal Manufacturing Corp.
 Schrock Western Conveyor Co.
 Scoopmobile Mixermobile Manufacturers
 Scotchlite Minnesota Mining & Mfg. Co.
 Scout Shawnee Manufacturing Co.
 Screen-All Lippman Engineering Works
 Scrugun Black & Decker Mfg. Co.
 Seal Coater Jebco, Inc.
 Sealmaster Stephens-Adamson Mfg. Co.
 Sealtext American-Marietta Co., Prestite Div.
 Seco Salyers Equipment Co.
 Seco Screen Equipment Co., Inc.
 Select-A-Notch Clipper Manufacturing Co.
 Selfweld Lincoln Electric
 Sentry Traffic Equipment Co.
 Servall Hewitt-Robins, Inc.
 Sewerite The Philip Carey Mfg. Co.
 Shack Jacks Superior Scaffold Co.
 Shield-Arc Lincoln Electric Co.

Shoco Shovel Supply Co., Inc.
 Shopsmith Yuba Power Products, Inc.
 Shur-Lock Alemite Div., Stewart-Warner Corp.
 Shur Worm Beebe Bros.
 Sierra Harnischfeger Corp.
 Silver-Brite Link-Belt Co.
 Silver Streak Joy Manufacturing Co.
 Simba Tubular Structures Corp. of America
 Simplex The Burch Corp.
 Simplex Engineered Equipment, Inc.
 Simplex Templeton, Kenly & Co.
 Simpli-Flo Simplicity Engineering Co.
 Skid-Loader Drott Manufacturing Co.
 Skid-Shovel Drott Manufacturing Co.
 Skooper Koehring Div. of Koehring Co.
 Smoothflo The Fairfield Engineering Co.
 Snap-Joint Victaulic Co. of America
 Snap-Tys Richmond Screw Anchor Co., Inc.
 Sno-Fly Bros Incorporated
 Snogo Klauer Mfg. Co.
 Snowblast Edward F. Taylor Co.
 Snow Fighter Walter Motor Truck Co.
 Softweld Lincoln Electric
 Solo Pacific Mercury Marketing Div.
 Sonoairduct Sonoco Products Co.
 Sonotube Sonoco Products Co.
 Sonovoid Sonoco Products Co.
 South Bend Municipal Supply Co.
 Space Saver Hyster Co.
 Spearwell Spears-Wells Machinery
 Speedall Pettibone Mulliken 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 Hauck Manufacturing Co.
 Speedmatic Pettibone Mulliken Corp.
 Speed-O-Matic Link Belt Speeder Corp.
 Speedoxer Pettibone Mulliken Corp.
 Speed Swing Pettibone Mulliken Corp.
 Speedpull LeTourneau-Westinghouse Co.
 Speedway Thor Power Tool Co.
 Speedy Rice Pump & Machine Co.
 Spiroloc Universal Form Clamp Co.
 Spawler Koehring Div. of Koehring Co.
 Spray Master Littleford Bros., Inc.
 Spreadarc Lincoln Electric
 Spread-Master Flaherty Manufacturing Co.
 Spread-Mobile Baughman Manufacturing Co.
 SpringKore Jones & Laughlin Steel Corp.
 Squirt Welder Lincoln Electric
 Stable-Arc Lincoln Electric Co.
 Stainweld Lincoln Electric Co.
 Standard Tampo Manufacturing Co.
 Steel-Grip Wire Rope Corp. of America
 Steffan National Welding Ept. Co.
 Stepmatic Clark Ept. Co., Automotive Div.
 Straddle Truck Hyster Co.
 Straightline Link-Belt Co.
 Stratoboom Henry Manufacturing Co., Inc.
 Strato-Tower Ottawa Steel Div.,
 Young Spring & Wire Corp.

Sturdee Thurman Scale Co.
 Sturdilite Phoenix Products Co.
 Sulkey Hyster Co.
 Summaire Clayton Manufacturing Co.
 Supairthermal Nordberg Manufacturing Co.
 Super Chief Davey Compressor Co.
 Super-Flex Wire Rope Corp. of America
 Super Gem Aeroquip Corp.
 Supergloss Zumar Industries, Inc.
 Super-Gyroloy Hewitt-Robins, Inc.
 Superior White Motor Co.
 SuperMatic Clipper Manufacturing Co.
 Super-Power Coffing Hoist Co.
 Supersteel Pacific Wire Rope Co.
 Super-Visibility Lincoln Electric
 Super-Vulcan Vulcan Iron Works, Inc.
 Sure-Grip Dayton Sure-Grip & Shore Co.
 Sure-Prime Jaeger Machine Co.
 Surfaceweld Lincoln Electric Co.
 Surgepull Alemite Div., Stewart-Warner Corp.
 Sur-Lok Dayton Sure Grip & Shore Co.
 Swampcat Insley Manufacturing Corp.
 Swede Atlas Copco Pacific Co.
 Swintek Eagle Iron Works
 SwitchMobile LeTourneau-Westinghouse Co.
 Swiveloader Stephens-Adamson Mfg. Co.
 Swivelpiler Stephens-Adamson Mfg. Co.
 Symons Nordberg Manufacturing Co.

T

Tamprite Los Angeles Steel Casting Co.
 Tanker Littleford Bros., Inc.
 Taper-Tye H. J. Krueper Co.
 Taggun Black & Decker Mfg. Co.
 Tar Baby The American Coleman Co.
 Telermatic Anthony Company
 Telmex Stephens-Adamson Mfg. Co.
 Telsmith Smith Engineering Works
 Terraload J. I. Case Co.
 Terrapac Vibro-Plus Products, Inc.
 Terratrack J. I. Case Co.
 Tox-Sprayer Cyclone Sandblast Equipment Co.
 Thrift-T-Lift Broderick & Bascom Rope Co.
 Thermo-Sonic Thurman Scale Co.
 Thrifline Municipal Supply Co.
 Tiger Atlas Copco, A. B.
 Tiger Boston Woven Hose & Rubber Co.
 Tiger Brand Columbia Steel Co.
 Tiflor Grip-Hoist, Inc.
 Toolweld Lincoln Electric
 Topdog Vibro-Plus Products, Inc.
 Torcon Clark Equipment Co., Automotive Div.
 Tournapull LeTourneau-Westinghouse Co.
 Tournarope LeTourneau-Westinghouse Co.
 Tournatractor LeTourneau-Westinghouse Co.
 Towermobile Mixermobile Manufacturers, Inc.
 Tractair LeRoI Division
 Tracto Tractomotive Corp.
 Tracto-Lift Ottawa Steel Div.
 Tractor Donkey Hyster Co.

Traffic Gard R. E. Dietz Co.
 Trailgrader Cleveland Formgrader 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
 Tribatch Koehring Div. of Koehring Co.
 Tri-Duty Alemite Div., Stewart Warner Corp.
 Triplex Edward F. Taylor Co.
 Trojan Yale & Towne Mfg. Co.
 Trouble-Saver Patent Scaffolding Co.
 Tru-Lay Littleford Bros., Inc.
 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 Brikaw Co.
 Tuffy Union Wire Rope Corp.
 Tufwire Union Wire Rope Corp.
 Tugger Engineered Equipment, Inc.
 Turbo-Diesel Cummins Engine Co., Inc.
 Turbo-Mixer Asphalt Equipment Co., Inc.
 Turbo-Viber Viber Company
 Turtle Flexible Steel Lacing Co.
 Tusky Tubular Structures Corp. of America
 Twinarc Lincoln Electric Co.
 Twinbatch Koehring Div. of Koehring Co.
 Twin-C Tractor LeTourneau-Westinghouse Co.
 Twin-Power Euclid Div., G.M.C.
 Twin Weld Hewitt-Robins, Inc.
 Twistite Stephens-Adamson Mfg. Co.
 Twistye Universal Form Clamp Co.
 Tyscrus Richmond Screw Anchor Co., Inc.

U

Ulrix Ulrich Manufacturing Co.
 Uni-Flow The Burch Corp.
 Uni-Form Universal Form Clamp Co.
 Uni-Letric Maginniss 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.
 Util-A-Tool Templeton, Kenly & Co.
 Utiloport Diamond Power Specialty Co.
 Utility Seaman-Gunnison Corp.

V

Vac-Nu-Matic LeRoI Division
 Velvetouch S. K. Wellman Co.
 Versa-Lift Teale & Co.
 Versatal Alemite Div., Stewart-Warner Corp.
 Viberette Viber Company
 Viberlec Viber Company
 Vibra-Meter Tampo Manufacturing Co.
 Vibra-Pactor Bros Incorporated
 Vibrex Hewitt-Robins Co.
 Vibro-Joint Seaman-Andwall Corp.
 Vibro-King Smith Engineering Works
 Vibromatic Pioneer Engineering Div.
 Vibro-Plate Wacker Corporation
 Vibro-Rammer Wacker Corporation
 Vibro-Tamper The International Vibration Co.
 Vic-Easy Victaulic Co. of America
 Victrometer Victor Equipment Co.
 Visi-Flash R. E. Dietz Co.

W

Waco Tubular Structures Corp. of Amreica
 Warco Huber-Warco Co.
 Warehouse Yale & Towne Mfg. Co.
 Warrior Galion Iron Works & Mfg. Co.
 Warrington Vulcan Iron Works, Inc.
 Washmore Lippman Engineering Works
 Wearpack American Steel Foundries
 Weldweld Lincoln Electric Co.
 Webco Western Boiler Co.
 Weda Svenska Motorbör Aktiefolaget
 Wedge-Lok Clark Industries
 Weight Lifter H. S. Watson Co.
 Weldanpower Lincoln Electric Co.
 Wescon Western Conveyor Co.
 Western Consolidated Western Steel Div.,
 U. S. Steel Corp.
 Western Douglas Motors Corp.
 Wemco Western Machinery Co.
 Whirlers Clyde Iron Works, Inc.
 Whirlettes Clyde Iron Works, Inc.
 Whirlleys Clyde Iron Works, Inc.
 Whirlwind The Black & Decker Mfg. Co.
 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.
 Wonderlift Selma Trailer & Mfg. Co.
 Work Bull Massey-Ferguson Industrial Div.
 Worksaver Yale & Towne Mfg. Co.

XYZ

X-Ray Stanco Mfgs. & Sales, Inc.
 Xtra-Cut Eveready Brikaw Co.
 Yardmobile American Coleman Co.
 Yellow Strand Broderick & Bascom Rope Co.
 Zephyrane Link Belt Speeder Corp.
 Zip-Lift Harnischfeger Corp.

simple
tie
installation...

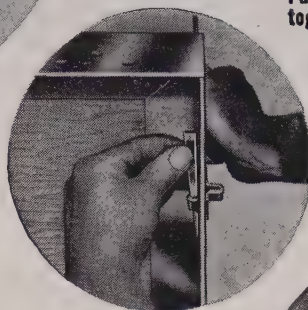
secret of FASTER CONCRETE FORMING

SECONDS
TO INSTALL

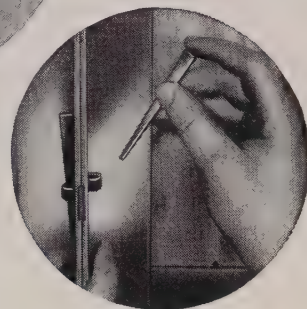
UNI-FORM TIE
AND ASSEMBLE PANELS



1. UNI-FORM Tie Loop placed in square tie hole of Panel.



2. Tie Key set into the Tie Loop. Panel and Tie are now locked together into integral unit.

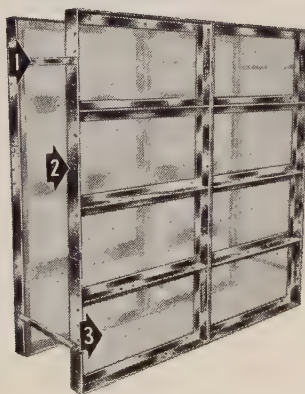


3. Next UNI-FORM Panel is placed in position. Tie Loop automatically enters square tie hole. Key is dropped in—assembly is complete. NO COMING BACK TO "FISH" TIES.

When you can tie and lock two concrete form panels in a few seconds, you're forming concrete fast! This is exactly what you can do with the UNI-FORM Panel System—the fastest system of forming concrete ever developed.

Faster tying is only one of many UNI-FORM Panel features that makes them *the* pre-fab forms contractors are using on every kind of concrete construction. Write for the UNI-FORM Panel System Catalog and full details . . . or, call your nearby Universal Distributor or Branch Office for personal attention immediately.

**UNI-FORM PANELS ERECT INTO A TIGHT, RIGID,
AUTOMATICALLY ACCURATE CONCRETE FORM**



1. Ties spread, lock UNI-FORMS into a form with automatically accurate wall thickness.

2. Steel frame provides structural strength and rigidity. Minimum alignment and bracing.

3. Best Exterior Grade Plywood face provides nailing surface. Easily turned for further re-uses.

"Products from the Gold Tool Room"

UNIVERSAL FORM CLAMP CO.

1238 N. KOSTNER AVENUE • CHICAGO 51, ILLINOIS

Distributors

UNIVERSAL FORM CLAMP CO.
13210 South Figueroa Avenue
Los Angeles, California

UNIVERSAL FORM CLAMP CO.
2051 Williams Street
San Leandro, California

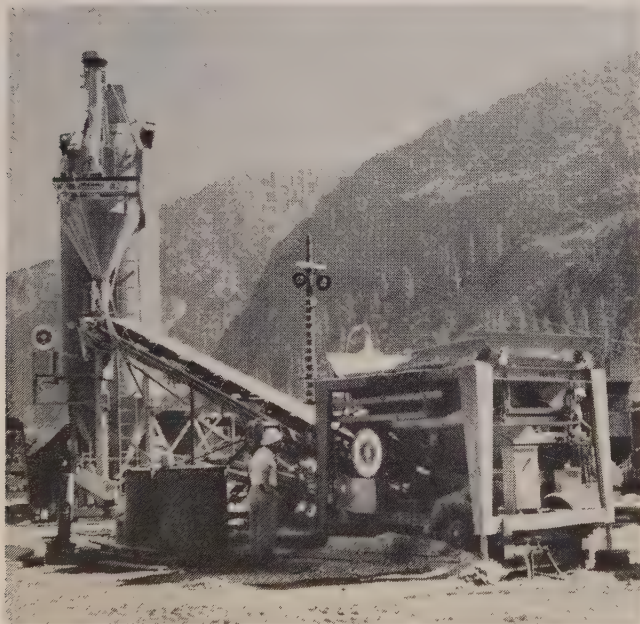
... for more details, write No. 56 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

Equipment for 1960

Small, portable batch plant

A small, portable batching plant producing up to 400 cu. yd. per day is providing low-cost, specification concrete on projects of up to 30,000 cu. yd. from California to Alaska. Operating up to 24 hrs. a day, the plant, known as Batch-a-bout, made by Noble Company, supplies all concrete for the 8 mi. long pressure tunnel of the Mammoth Pool Hydroelectric project near Fresno, Calif.; Utah Construction Co., general contractor. For construction of ICBM facilities at Fairchild Air Force Base near Spokane, Wash., similar plants were set up at each of two job sites to meet the specified 45-min. time limitation from batching to pouring and produced all concrete for the project.

General contractor, Patti-MacDonald Construction Co. uses two additional plants on short-run jobs in



Alaska and saves from \$5,000 to \$6,000 on set-up expense on each job. Batch-a-bout features a 1,000 cu. ft. cement silo charged by a 350 bbl.-per-hr. vertical screw. Cement is batch automatically with weights set remotely from control station on aggregate batcher. Aggregate weigh batcher is charged by a front-end loader or from a supplemental 40-ton, 3 compartment overhead storage bin.

... Write No. 208

Hyster for fast rolling

A number of new compaction machines appeared on the construction scene in 1959 and one with most unusual features is a high-speed, self-propelled machine built by Hyster Company. Designated the DW20A Compactor, this machine employs the Caterpillar DW20 tractor as the prime mover. Hyster-built components include compaction wheels mounted on the tractor driving axles and a gooseneck trailing unit.

Two types of wheels are available and interchangeable within the same frame—grid wheels for working



granular soils and tamping wheels for rolling plastic material.

By far the most important contribution this machine has made to the earth-moving industry is the reduction of compaction costs. Low costs are largely the result of high-speed operation. An average speed of 9 mph. is usual with top speeds of 15 mph. attained on final passes.

An outstanding example of this machine's performance is the result obtained on one highway job involving a soil mixture of loam and sand. Operating at an average speed of 9 mph. the DW20A tamping compactor achieved a production rate of 1,415 cu. yd. per hour at a cost of 1.3¢ cu. yd.

... Write No. 209

Eimco dozer offers GM engine

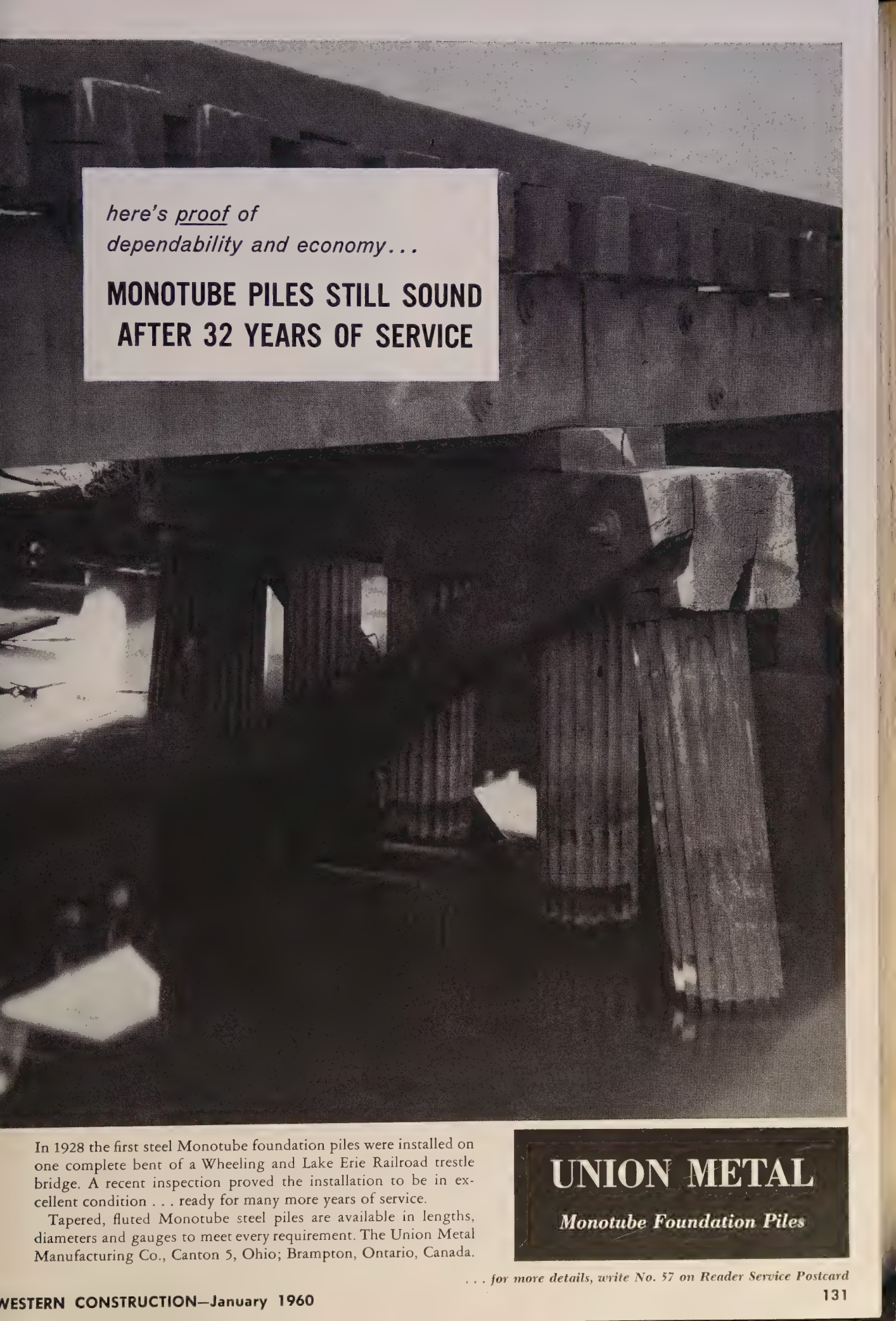
A GM 4-53 diesel engine is now available in the new Eimco 103 crawler-tractor, the Tractor Loader Division of the Eimco Corporation announced. The GM diesel is teamed with Eimco's "Quadro-Torque" and "Unidrive" power train to give the 103 a maxi-



mum drawbar pull of 33,000 lb. with zero track slippage. The 103 crawler is equipped with independent track control and individual full reversal.

It has constantly-running power takeoff drive and an independent hydraulic pump drive that allows simultaneous use of hydraulic, winch, and hoist accessories.

... Write No. 210



*here's proof of
dependability and economy...*

MONOTUBE PILES STILL SOUND AFTER 32 YEARS OF SERVICE

In 1928 the first steel Monotube foundation piles were installed on one complete bent of a Wheeling and Lake Erie Railroad trestle bridge. A recent inspection proved the installation to be in excellent condition . . . ready for many more years of service.

Tapered, fluted Monotube steel piles are available in lengths, diameters and gauges to meet every requirement. The Union Metal Manufacturing Co., Canton 5, Ohio; Brampton, Ontario, Canada.

UNION METAL

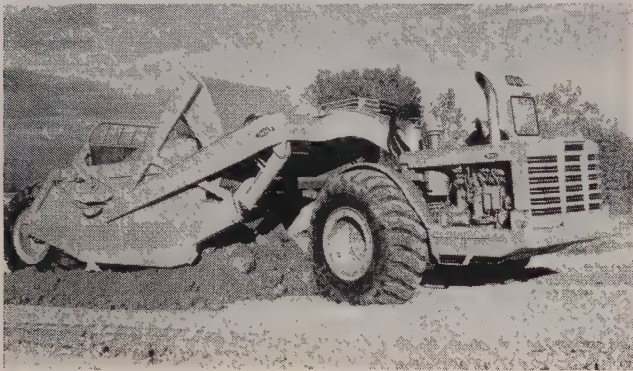
Monotube Foundation Piles

. . . for more details, write No. 57 on Reader Service Postcard

Equipment for 1960

All-hydraulic motor scraper

A 30-yd. (heaped) capacity 4-wheel motor scraper with all-hydraulic controls has been introduced by Allis-Chalmers Manufacturing Co. The Model TS-360 scraper weighs 63,150 lb. and is powered by a 340 hp. a.c. turbocharged engine. It features double-acting hydraulic bowl lift jacks which apply tremendous force at the cutting edge for penetration in dense materials. Hydraulic power is furnished by a tandem



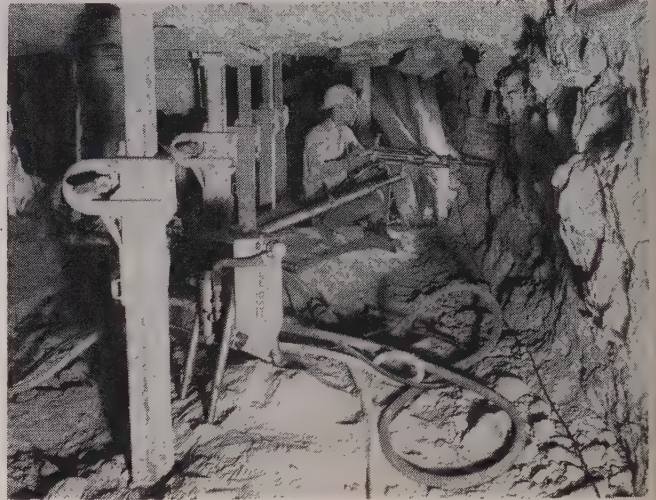
pump, gear-driven from the engine crankshaft. Double-acting steering jacks give the unit exceptional maneuverability. A 90° turn either way can be accomplished with a 1/6th turn of the steering wheel, and full 180° turns can be made within a width of 35 ft. 8 in. Power train includes a 5-speed, constant mesh, spur gear transmission with the top speed of 26.3 mph. and the Kon-Tork differential, which automatically controls the amount of torque delivered to each drive wheel in relation to traction requirements. The low, wide scraper has a slightly curved bottom for faster capacity loading and a 10-ft. apron clearance. Ejector is powered by two telescoping, hydraulic cylinders. The unit is equipped with four 29.5x35 tires. Two-thirds of the empty weight is carried on the drive wheels, while loaded weight is equally distributed on all 4 wheels. The scraper is operated with 2 levers, one controlling apron and ejector movement, the other raising and lowering the bowl.

... Write No. 211

Jack-leg drill traps dust

The photograph shows a Le Roi dustless jackleg drill and dust collecting tank in operation at an underground project in Moab, Utah. The new dust collecting drill LLV is for use with the Le Roi A190 or AL92B air legs. The latter has a telescopic feed. The LLV is a medium-weight drill using a 1-in. hex by 4 1/4-in. steel. The cuttings are drawn into 5-hole bits through the hollow drill steel into the chuck and immediately out the side of the chuck housing. The cuttings do not travel through the drill. Operating at 80 psi., air consumption is 105 cfm. Air hose and air connections are 3/4 in.

The LX-1 remote controlled dust collector tank weighs 45 lb. Tank size is 13 3/8 x 7 x 16 in. The tank door can be operated remotely from the drill throttle valve lever, allowing drilling of a large number of holes without taking time out to empty the tank. Air

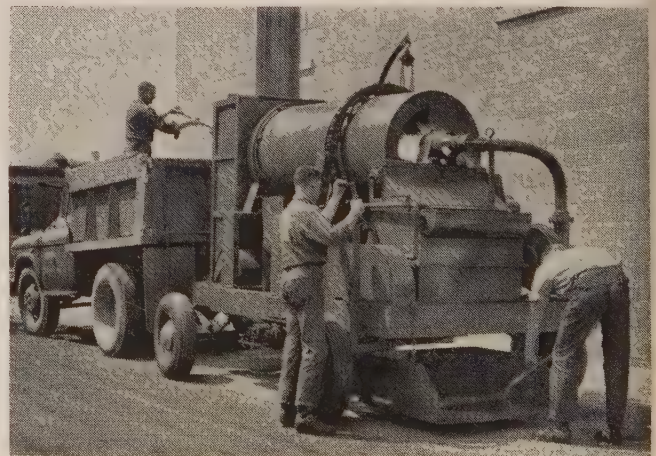


consumption of the tank is 18 cfm. at 80 psi. The LX-1 tank can also be used with Le Roi S20 or S12VT stopers, in conjunction with roof bolting, in which case the pilot mechanism works off the feed leg pressure control system. The tank is dumped whenever feed leg pressure is turned off.

... Write No. 212

Small, but most complete

Model L-6B of the White Manufacturing Co. is designed to operate as a completely self-contained small hot mix plant producing 6 to 8 tons an hr. of hot mix when operated as a portable plant, and 10 to 12 tons an hr. when operated as a stationary plant. The L-6B utilizes all the component parts usually found in larger asphalt plants and has its own fuel supply as well as an asphalt tank and heating system. This is a batch



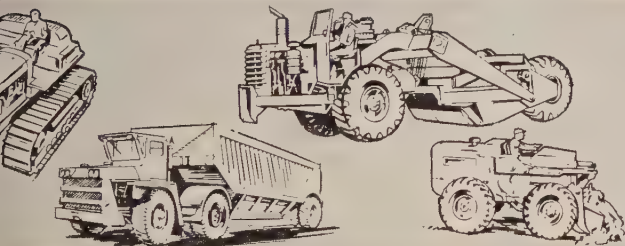
type plant producing 500-lb. batches that are controlled by a volumetric system. Liquid asphalt can be either metered into the mixer or it can also be handled through the use of an asphalt trough.

Operated as a portable unit it can supply counties and municipalities with any type of patch material right at the job site. The material can be produced only as fast as needed and no auxiliary equipment is necessary to operate the plant except the truck towing the machine.

Operated as a stationary plant, it can produce an average truckload in approximately 30 min.

... Write No. 213

you to keep the stick"



EVEN IF YOU HAVE only top operators on all your equipment, the cost of keeping a stick-shift comes to a pretty penny: too-frequent, high repair bills for unavoidably shock-loaded drive lines and axles—engines being overhauled twice as often as necessary at \$1,200 to \$1,500 per overhaul—and, of course, those incessant clutch repairs and replacements.

No Operator Matches TORQMATIC Efficiency—

—for no operator can handle the stick as smoothly and efficiently—*every time*—as an Allison TORQMATIC DRIVE.

TORQMATIC adjusts your engine output and speed—automatically—to meet every change in load or terrain. It never fatigues—no matter how long or how tough the job. It needs no costly training—in fact, TORQMATIC owners report they're saving between \$1,500 and \$2,000 every time they train a driver because rookies can't make a shifting or clutching mistake.

It's Working for You or Against You

So it's easy to see that a TORQMATIC DRIVE is a real money saver. One thing is sure: you're either cashing in on its advantages on every job you bid for—or competing against men who do, who bought TORQMATIC because they looked at *total* cost, not just *first* cost.

And remember—TORQMATIC is available in almost every type—and well over 100 makes—of equipment. It's been proved—on years of tough jobs—far beyond any other hydraulic transmission. Just see your dealer—or write Allison for details.

ALLISON DIVISION OF GENERAL MOTORS
Indianapolis 6, Indiana

In Canada: General Motors Diesel Ltd., London, Ontario

Allison



TORQMATIC® DRIVES

THE MODERN DRIVE FOR MODERN EQUIPMENT

stronger to last longer—Allison casts
converter for extra strength, greater precision
the converter is integrated with the trans-
for a neat, easily serviced installation.

Cast lighter-weight concrete slabs... economically!



Sears-Roebuck Store, Hayward, Cal. Architect: Reynolds and Chamberlain. Engineers: Pregnoff and Mather. Contractors: Hilt and Rhodes.

Form voids in concrete construction with

SONOCO

SONOVOID®

FIBRE TUBES

By displacing low-working concrete at the neutral axis, low-cost SONOVOID Fibre Tubes reduce weight and save both concrete and reinforcing steel. This weight reduction permits increased design flexibility without impairing structural strength. In fact, voided slabs, because they have less deflection, are ideal for long spans and situations where heavy loading is anticipated.

Easy-to-handle SONOVOID Fibre Tubes can be used in cast-in-place, or precast concrete floor and roof slabs and bridge decks. Also for precast, prestressed concrete piles.

Order Sonoco SONOVOID Fibre Tubes in sizes from 2.25" to 36.9" O.D., in required lengths or standard 18' lengths. Can be sawed to size on the job. End closures available.

See our catalog in Sweet's

For complete information and prices, write

SONOCO
Construction Products

4441

SONOCO PRODUCTS COMPANY

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

See manufacturer's detailed listing in Yellow Section

- HARTSVILLE, S.C.
- LA PUENTE, CALIF.
- FREMONT, CALIF.
- MONTCLAIR, N.J.
- AKRON, INDIANA
- LONGVIEW, TEXAS
- ATLANTA, GA.
- BRANTFORD, ONT.
- MEXICO, D.F.

Ripper for asphalt pavements

A hydraulically - operated rear-mounted ripper, designed to rip asphalt pavements to a 12-in. depth, has been announced by the American Tractor Equipment Corp. The ripper is for exclusive use on Model 660 and 550 graders manufactured by LeTourneau-Westinghouse. The ATECO ripper can accommodate up to seven ripping shanks and is mounted on the grader's rear frame where the weight and hydraulic power provides fast penetration and efficient ripping in tough material. This arrangement allows for



much heavier ripping than normally available with front mounting. The contour of the shank tends to lift and break the material for easier handling and tends to compress the motor grader's tires for better traction. However, the ATECO ripper does not replace the front-mounted scarifier which is necessary for scarifying around obstructions. A variety of attachments are available for various applications—straight or curved shanks, and replaceable points, splitter and shank guards and a scoring disk for cutting asphalt pavements to limit the ripping area as required. As an added feature the rippers have a hinge section which keeps points retracted and out of the way when not in use, yet they are instantly ready for ripping when the ripper is lowered to ground level. The ripper is available exclusively through LeTourneau-Westinghouse distributors.

... Write No. 214

Get up full steam pressure in 2 minutes time

You can produce full steam pressure in 2 min. time and reduce both labor and operator cost by producing steam only when it is needed with Littleford's "Kwik-Steam" vapor boilers. The unit's compact size and lightweight occupies less space and permits it to be located closer to the source of use. It weighs only 100 lb. per sq. ft. Here are some of the features of the boiler: It has five different sizes to meet any need, from 40 to 150 bhp.; from a cold start it will

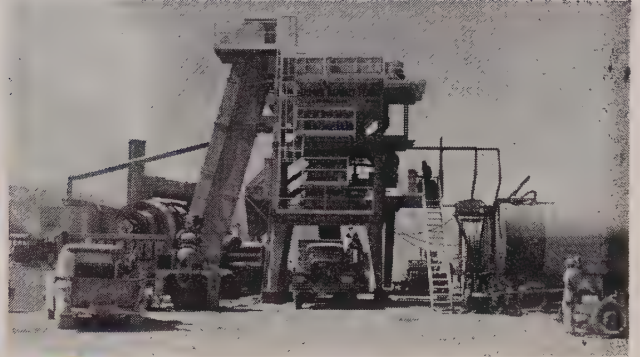
MADSEN Money-Makers for the '60s

1960 commemorates MADSEN's 50th year of designing and manufacturing asphalt plants and asphalt plant equipment.

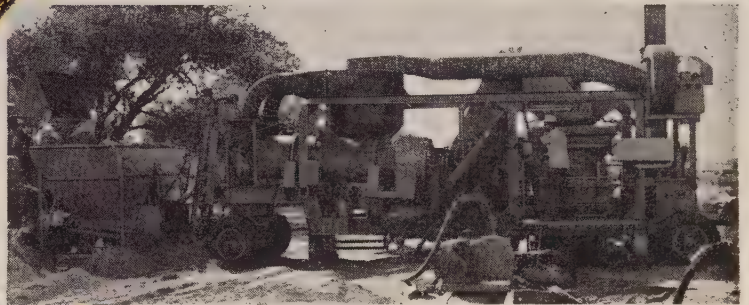
The record tonnage production and money-making ability of today's MADSEN plants is the result of the experience and know-how gained during these 50 years of service to the asphalt paving industry.

MADSEN's years-ahead engineering gives you much more than high daily production. MADSEN Asphalt Plants have always been noted for their low operating costs and easy, low-cost servicing and maintenance. Add to this complete portability, cleanest operation and improved mixing action... and you can see why the purchase of a MADSEN Plant is your logical "first step" for more profits in the '60s.

Your MADSEN Distributor has all the facts... see him today.



MADSEN MODEL 481 ASPHALT PLANT...the industry's outstanding batch capacity asphalt plant, built in 4000 lb., 5000 lb. and 6000 lb. capacities. Factory-matched unit sections assure quick field erection. Plant features faster mixing, exclusive bin design for more uniform aggregate withdrawal, roll-away weigh-box for quick, easy servicing and maintenance, and finger-tip control of weighing and mixing operations. (Fully automatic operation is optional.) Capacities up to 300 T.P.H.

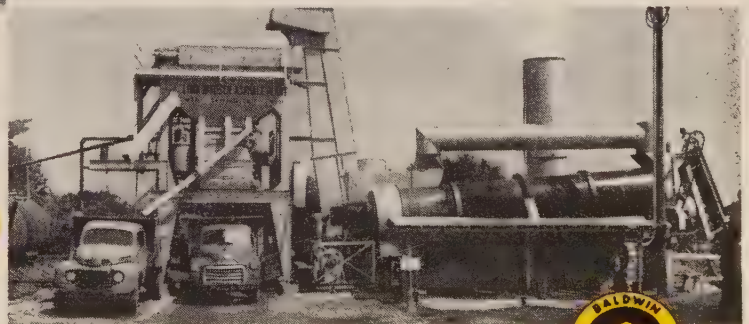


THE LITTLE MONSTER®...this complete asphalt mixing plant on wheels is designed for fast-moving, fast set-up and substantial daily production. Plant shown is owned by a State Highway Department. It is complete including two MADSEN 32" x 10' Dryers, a MADSEN 2-compartment portable feed bunker and dual cold stone elevators. Mixer unloading skip loads asphalt into trucks. Plant is rated at 30 T.P.H. on a one-minute mixing cycle.



MADSEN HIGHWAY-AIRPORT BASE STABILIZER PLANT...newest addition to the MADSEN line. This plant is a high-production, portable unit designed specifically to meet today's exacting requirements in regard to precision proportioning and control of materials. The twin-shaft continuous-type pug mill mixer is designed for producing 600 T.P.H. of stabilized mix. Plant features rugged construction, mechanical simplicity and easy maintenance.

MADSEN 2000-LB. SPECIAL ASPHALT PLANT...a small plant with big plant features. The 2000-lb. SPECIAL is ideal for the not-too-large contractor, the municipality and the large contractor who wants a small type of operation for producing approximately 480 tons per 8-hour day on a one-minute mixing cycle. It's an ideal plant for handling those jobs up to the 10,000-ton class.



Equipment that Serves

FOR YOUR CONVENIENCE

MADSEN maintains a complete parts stock in Los Angeles and Lima, Ohio

MADSEN WORKS

P.O. BOX 38, La Mirada, California

BALDWIN-LIMA-HAMILTON CORPORATION, P.O. Box L, Lima, Ohio

Construction Equipment Division
BALDWIN-LIMA-HAMILTON CORPORATION

ASPHALT PLANTS • PUG MILL MIXERS • AGGREGATE DRYERS • DUST COLLECTORS • ROAD PUG TRAVEL MIX PLANTS • WEIGH BATCHERS • DUST WASHERS • FEED BUNKERS • ASPHALT TANKS • ASPHALT & FUEL PUMP UNITS • CONCRETE FLOAT FINISHERS FOR AIRPORTS AND HIGHWAYS • HIGHWAY-AIRPORT BASE STABILIZER PLANTS

... for more details, write No. 61 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section



LIMA MODEL D ROADPACKER

Two ways to lower compaction costs with fast, high-density Lima Roadpackers

- **Compact to 100% density in one pass**—often possible with Lima Roadpackers.
- **Lay fewer courses**—Roadpackers compact even 10 and 12-in. layers in minimum number of passes.

High-production Roadpackers speed construction of highways, parking lots, airfields and earth-fill dams. Vibratory compaction works from bottom to top; fills voids, eliminates shoving. Roadpackers work forward or in reverse. Compact in varying widths and speeds. Travel on-the-job or over-the-road at highway speeds.

Lima Roadpackers are extremely popular with cost-conscious contractors everywhere who are interested in both high performance and low maintenance. Vibrator units are completely sealed, self-lubricated. No external moving parts; no daily maintenance required.

Two Model Roadpackers Now Available

MODEL D—Six hydraulically controlled vibrator shoes compact up to 600 tons per hour in a 13 ft., 1 in. swath. End shoes fold up for narrow width compaction path or highway travel at speeds up to 30 mph. Compacts from 20 to 95 feet per minute using 4, 5 or 6 shoes.

SUPER—More than doubles compaction performance of any multiple-shoe vibrator machine. Designed for really big jobs. Two rows of six vibrator shoes, hydraulically controlled, compact "tough-spec" materials on production basis from 26 to 268 feet per minute in widths to 15 ft. Highway travel to 24 mph; power brakes and steering, tandem rear drive.

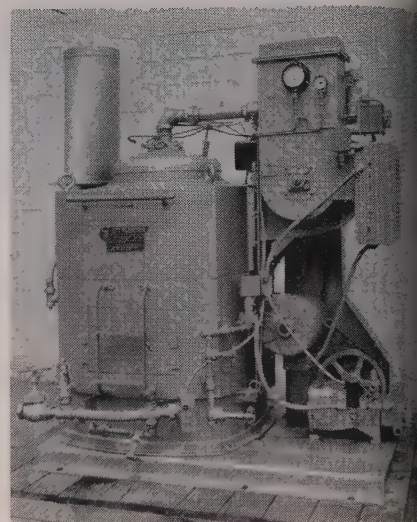
Get compaction cost-cutting facts from your nearby Lima distributor or write to Baldwin-Lima-Hamilton Corporation, Construction Equipment Division, Lima, Ohio.

Reno Equipment Sales Company, 1510 W. 4th Street, Reno, Nevada; Feenaughty Machinery Company, 112 S. E. Belmont Street, Portland 14, Oregon; 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, 1304 North Fourth Street, Albuquerque, New Mexico; Modern Machinery Company, Inc., East 4412 Trent Avenue, Spokane 10, Washington; Shasta Truck and 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 894, Anchorage, Alaska; Faris-Moritz Equipment Company, 5790 Colorado Blvd., Denver, Colorado; Western Machinery Company, 2300 South Main Street, Salt Lake City 15, Utah; Western Machinery Company, P. O. Box 197, 590 West 19th Street, Idaho Falls, Idaho; Smith Booth Usher Company, 2200 S. San Gabriel River Parkway, Los Angeles 54, California

LIMA Construction Equipment Division, Lima, Ohio
BALDWIN · LIMA · HAMILTON



... for more details, write No. 62 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section



produce steam in 2 min.; it's light and compact; it has an efficiency from 78 to 82%; it's safe, because steam explosion is impossible; you need only one capital investment as every part is replaceable; the safety valve is set for 235 lb.; you have three choices of fuel; no licensed fireman is required in many localities.

... Write No. 215

Spinning windshield stays clear

A spinning glass disc mounted over the windshield of a vehicle throws off rain and snow to maintain visibility in storms. The unit called a "Clear View Rotary Windshield" is marketed by Edward F. Taylor Co. It consists of a circular optically ground and dynamically balanced safety glass disc held in place by machine metal rings and



fastened in the center to a steel shaft with special ball bearings. The disc is driven by an electric motor and an endless belt at a speed of about 2,400 rpm. Once installed it needs servicing only every two years. Where required, a special heating device may be also installed for de-icing.

... Write No. 216



type 1800 5-yd. shovel—one of five Limas owned by Mittry Construction, Los Angeles. Shown excavating at Abiquiu earth fill dam project, Shama N. Mex.

Lima announces new 5-yd. shovel 140-ton special crane

E 1800

Standard 5-yd. shovel with 35-ft. boom,
5-ft., 10-in. dipper handle; 7 or 8-yd.
dipper for coal handling
converts to 112-ton crane
variable capacity dragline

E 1800SC

140-ton special crane with 21-ft.-wide truck
base for stability with big lifts
converts to variable capacity dragline

New Limas are designed to permit knock down for
job transportation. Side assemblies come off as a unit
including belts, crawler chains and sprockets. Counters
are removable. Backhitch-telescopic-type gantry
down to 17-ft., 5-in. overhead clearance.

MAINTENANCE REQUIREMENTS—You get more for
money when you buy a LIMA. They last longer, per-
form better, and require less maintenance. Lima offers you

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Head Office—14120 E. Rosecrans Ave., La Mirada, California; **Feenaughy**
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2 Cypress Street, Oakland 7, California; **Bay Cities Equipment, Inc.**,
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Co., 4300 - 11th Avenue, Northwest, Seattle, Washington; **Smith Booth**
Company, 2200 S. San Gabriel River Parkway, Los Angeles 54, Cali-

all of these important features in a single machine—

- Air control
- Torque converter drive
- Anti-friction bearings at all important bearing points
- Large diameter clutches and brakes
- Two-shoe-type swing-propel clutches
- Combination rope-chain crowd
- Single-inside-type dipper handle, 15" square
- Extra Long crane booms and special jibs available
- Convertible to crane or dragline
- 9' - 10 1/4" dia. roller path
- Six cone rollers, six hook rollers
- Standard or long, wide crawlers
- Diesel or electric power
- Knock down for highway transportation
- Independent two-drum boom hoist
- Independent propel
- Auxiliary third drum
- Power load lowering

FACTS AND FIGURES on the new 1800 and 1800SC are
yours for the asking. See your nearby Lima distributor today
or write to Baldwin-Lima-Hamilton Corporation, Construc-
tion Equipment Division, Lima, Ohio.

ifornia; **Evans Engine & Equipment Co., Inc.**, Post Road—Box 894, Anchorage,
Alaska; **Faris-Moritz Equipment Co.**, 5790 Colorado Blvd., Denver, Colorado;
Shasta Truck & Equipment Sales, South 99 Highway, Redding, California;
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Western Machinery Company, 820 North 17th Avenue, Phoenix, Arizona;
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Western Machinery Company, 2300 South Main Street, Salt Lake City 15, Utah;
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Falls, Idaho

LIMA Construction Equipment Division, Lima, Ohio
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Big off-road hauler built to meet 11 major needs

Shown being loaded on a Western project is the LeTourneau-Westinghouse Haulpak, the first off-road hauler built for its job from the wheels up, in 22-, 27- and 32-ton capacities. Here are eleven major needs the Haulpak was designed to satisfy: high operator capacity—new features permit one man to move more tons from load to dump in less time; fast travel speed and fast cycle speed—carries payloads up to 39 mph.; low center of gravity—sloping body keeps load low for stability within a short wheel base; maximum maneuverability—130-in. wheel base results in a 44-ft. 6-in. turning circle, shortest in the industry; low unit weight per payload ton—for example LW-32 weighs 22½ tons, hauls 32 tons; high clearance—ground clear-



ance of 23 in. in front and 20 in. in rear; springless suspension—air suspension system used throughout; more braking power—two braking systems operate from foot pedal, two independent systems from the hand lever; more working horsepower—with less dead-weight to carry, exclusive power transfer differential, propeller type radiator fan and other features, more power is devoted to payload; minimum maintenance—only three fittings to grease at 500-hr. intervals, and no daily maintenance; simplified servicing—all components are easy to reach, right and left final drive assemblies, air cylinders, wheels and all tires are interchangeable.

Utah Construction & Mining Co. owns five Model 32 Haulpaks. They are used in the company's iron mining operation at Iron Springs, Utah, for both disposal of overburden and hauling of ore.

The first unit was delivered for test and evaluation several months before general availability was announced. Complete records were kept, and as a result the additional units were purchased in early 1959.

During the first 10½ months the original machine logged 2,200 hr. with an overall availability of 90.7%. It moved more than 200,000 bank yards of overburden at an average of 14 yd. per trip; and delivered more than 80,000 tons of ore to the crusher with loads averaging 38 tons.

Overburden disposal involved shovel loading on a 65-ft. bench, hauls averaging 2,000 ft. one-way over well maintained roads, dumping and return. Grades

were as much as 8% both favorable and unfavorable. A factor which played a significant part in maintaining fast cycles was the Model 32's ability to make complete non-stop 180-deg. turnarounds on the 65-ft. bench.

In ore hauling, the average one-way distance lengthened to nearly 2 mi. This was over excellent surface with grades ranging from 5% favorable to 5% unfavorable. More than 1½ mi. was blacktop. On these long cycles, the Haulpaks consistently reached speeds of more than 25 mph.

... Write No. 217

Mobile hammer has straight traverse

A scissors-action traversing assembly that permits a straight line movement across the front of the machine in a 6-ft. space is a feature of the "Commando," a new model of the Hydra-Hammer introduced by Ottawa Steel Division of Young Spring & Wire Corp. Prototype of the Commando has been demonstrated on jobs in the San Francisco Bay Area for several weeks. Basic unit is a front-steering, front-drive, 4-wheeled vehicle powered by a 60-hp. Continental gasoline engine. (Both 4-wheel drive and 4-wheel steering are option-



ally available.) Automotive 4-speed transmission produces road speeds up to 35 mph. Separate hydraulic drive is used in operation to provide creep speeds up to 100 fpm. Main hydraulic system powers hammer, mast, traverse, steering, and accessories. Long base heavy chassis is made of channel steel, with leaf type counterweights mounted between main frame members at rear. Handsome functional body designed by industrial designer Raymond Lowey includes long rear deck which can be used for cargo, and elevated operator's seat providing uninterrupted visibility. The Hydra-Hammer is positioned by a single "Onetrol" lever, which moves it right or left, up or down according to the direction the lever is moved. The hammer can operate outside the tread of the machine in areas of limited clearance, close to curbs or buildings.

... Write No. 218



ROOF--HARD ROCK IS A SOFT TOUCH WITH THE SHEPHERD M371A RIPPER

rough Bisbee, Arizona, mining country a of 200,000 cubic yards of the tough rock job ated above were reduced to scraper ial by a Shepherd M371A Ripper powered Caterpillar D9 Tractor.

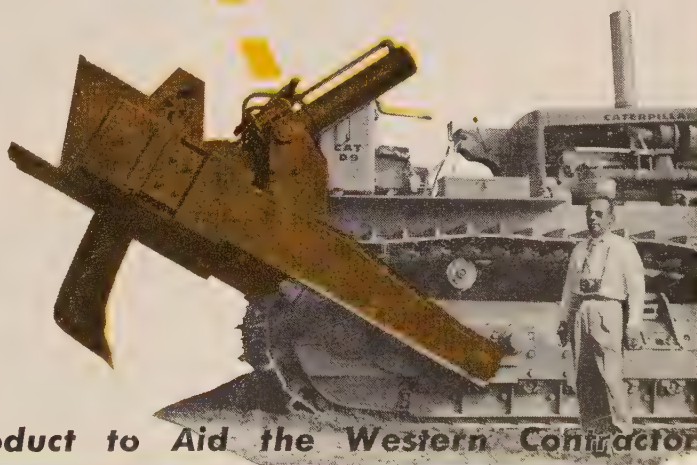
iginally regarded as a heavy shovel ation job, the rock was a solidly bedded tion of rhyolite, schist and limestone. The actor decided to try the Shepherd Integral em Ripper-Cat D9 Tractor combination, ound it could do an exceptional job under adverse ripping conditions.

ing a combination of straight ripping, and g after pre-blasting, the Shepherd Integral r worked both "alone" and with a tandem r and speeded the 1.1 mile 200,000 cubic ob to completion ahead of schedule." With hepherd Ripper the prorated explosive mption was only 0.14 pound per cubic The contractor was well pleased with the herd Ripper performance figures.

Caterpillar and Cat are Registered Trademarks of Caterpillar Tractor Co.

her **SHEPHERD MACHINERY CO.** Product to Aid the Western Contractor

DYNAMIC DATA SHEPHERD M371A INTEGRAL RIPPER	
Weight of Ripper	20,600#
Total Machine Weights:	
Single Tractor Ripper	93,000#
Tandem Tractor Ripper	165,000#
Maximum Tooth Pressures Tandem Ripper:	
Lateral	124,000#
Vertical	70,000#
Angular	100,000#
Maximum Angular Intensity of Pressure:	
Far In Excess Of Compressive Strength Of Rock	45,000 p.s.i.



SHEPHERD

Santa Ana
Jefferson 1-1131

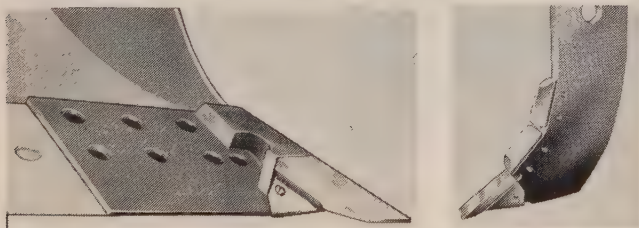
MACHINERY CO.
3400 So. San Gabriel River Parkway
LOS ANGELES

Lancaster
Whitehall 2-1177
OXford 2-3751

Aids for rippers and dozers

A combination of bulldozer corner teeth and wear-plate ripper shanks represents the H&L combination for the big cut! These forged high-alloy steel products fill a need in the construction industry, and are used by contractors in every phase of digging, grading, and excavating. Highway and dam contractors report substantial savings in their ripping and excavating operations in the West where rock and hard compact material are continually encountered.

The bulldozer corner point pilots ahead of the cutting blade and allows the operator to load blade in



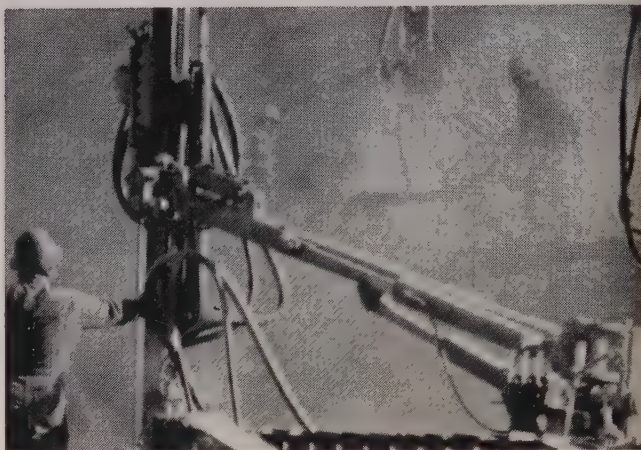
hardest material. It allows operator to keep dozer in a straight line for greater accuracy in slopes and cuts. Sharp replaceable flexpin type point eliminates round corners, and can be changed simply with hammer and punch. The adapter bolts into place of original end-bit using the same holes, and is available for every bulldozer make and model.

The wear-plate ripper shank rips rock or other hard compact material, with great economy. The narrow sharp point penetrates with less power, replaceable wear-plates at point of maximum wear assure the long life of shank. Shank, wear-plates, and point are all of forged high alloy steel with uniform grain flow, heat treated for maximum strength.

... Write No. 219

Long-life drill steels

Extension drill steels of a new round type—formed from a special Swedish cold-rolled alloy steel and coupled by a unique rope-like thread—have been giving Western construction users remarkable footage performances on air track equipment since their in-



roduction to this market two years ago by Atlas Copco.

Now under test or in full-scale use on some 50 highway and hydroelectric projects and quarrying operations in this country—specific Western projects are: Flaming Gorge Dam, Gold Beach breakwater, Rocky Reach Dam, Abiquiu Dam, highway relocation at Terminus Dam, Tioga Pass highway relocation.

Cold rolled steels offer the advantage of smoother, larger, perfectly round blow holes—perfectly centered in the steel reducing fracture areas experienced on hot rolled steels where oval holes seldom are centered. Cold-rolled steel also permits job site re-threading without heat treatment that destroys the original fatigue-resistant surface finish. These facts combined with ease in uncoupling are resulting in lower drilling costs.

... Write No. 220

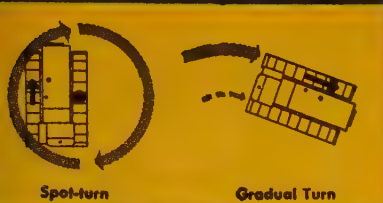
Superior back-up horn

Those responsible for providing backup protection for personnel on construction jobs will be interested in the fact that Trinity Dam Contractors have installed DYNALARM automatic backup horn systems on their rolling and track type equipment. This unit, built by Atkinson Dynamics Co., meets safety specifications and utilizes the following design features to give it the maintenance-free reliability necessary for safety equipment on a construction project of this type.

- * Sound engineered directed "tone" to penetrate, not add to the job noise.
- * Efficient, reliable transistors, not contact points on relays or vibrators, used to switch the power.
- * Patented, nylon and stainless steel actuating switch which will automatically sound horn when vehicle moves to the rear *under any circumstances*.
- * Built for rugged duty with circuitry sealed in epoxy plastic, heavy-duty neoprene connecting cable and military type connectors to provide jobworthy equipment protected against vibration, moisture and physical damage encountered under field conditions.

These units have been in use for more than two years, keeping the job free from backup accidents. Systems, with complete mounting and accessory kits, are available on an "off the shelf basis" for most standard construction equipment.

... Write No. 221



**m-bang test
the OC-9 in
your own way
and let the
tractor do the
talking"**



See page 146 for the Oliver dealer nearest you.

Call your Oliver dealer now for details and demonstration! Or write for brand-new, highly illustrated catalog.

NEW SELECTIVE POWER STEERING

For the first time in a tractor this size, *independent* power to each track gives you three types of *power* turns—for exactly the maneuver the job and conditions call for: counter-rotation turn, spot-turn and gradual turn.

NEW POWER SHIFTING

Shift forward to reverse instantly. No clutching, no gear-clashing, no letup in production! Four speeds forward to 5.94 m.p.h....fastest of all speeds backwards to 7.92 m.p.h.

NEW TORQUE CONVERTER

The OC-9 is the *first* crawler its size having an *industrial heavy-duty* torque converter built far in excess of the toughest work-load requirements. Push or pull twice the pay loads at reduced speeds...profit from its limitless speed ratios to match any job needs.

NEW MASSIVE WORK POWER

Longest and heaviest in its class, the OC-9 delivers the greatest drawbar pounds pull of any tractor its size. Advanced 62 gross h.p. diesel proves its design superiority with higher horsepower per pound...unmatched fuel economy.

NEW OPERATING EASE AND COMFORT

The OC-9's "lap of luxury" controls put easy, relaxed steering and reverse comfortably in hand with conveniently placed, power-assisted controls just ahead of the operator's seat. Only the OC-9 has full-width, flush deck for walk-in ease and leg-movement freedom.

NEW FUNCTIONAL DESIGN

Take a good look at the OC-9's clean, uncluttered good looks. Here is the classic of crawler-engineering with design simplicity and *design sense* sure to enhance your company prestige on every job you give it.

See what's ahead for you in newly achieved job speed—higher-than-ever earnings...

Also All New Oliver 1-Yd. OC-96 Loader

New 100% factory-built loader for the first time incorporates the side pedestals as *integral* parts of the tractor—not high "bolted-on" afterthoughts. No loader parts extend above the engine cowling—for clean-cut, clear-around visibility. Fast-cycle loader with deep-digging and high-reaching range has 1-yd. bucket.



America's fastest loading, fastest reversing 1-yd. loader!



THE OLIVER CORPORATION

Dept. 2232, 400 W. Madison St., Chicago 6, Ill.

LOOK TO OLIVER FOR YOUR BEST BUY IN WHEEL AND CRAWLER TRACTORS

See your local
OLIVER Distributor
for complete information

ALASKA

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ARIZONA

Phoenix, Guerin Implement Co.
Prescott, Yavapai Parts & Machine Shop
Tucson, Southern Arizona Machinery Co.
Yuma, Sturges Implement Co.

CALIFORNIA

Bakersfield, Monarch Sales Co.
Blythe, Munson Equipment Co.
Brawley and Tustin, Schneider Tractor Co.
Calistoga, Flynn Tree Service
Coachella, Coachella Valley Tractor Co.
Colton, Condosta Tractor Co.
Cotati, H-G Equipment Co.
Dinuba, The Richland Company
Escondido, Benton Equipment Co.
Eureka, Rogers Machinery Co.
Fowler, Fowler Farm Supplies
Fresno, Pursley Machinery Co.
Goleta, Goleta Tractor Service
Heber, Torrence's Farm Implements
Huron, Rufus McIlroy
King City, Bert Loomis & Son
Lancaster, Robertson Implement Co.
Lodi, Bechtold Tractor Service
Los Angeles, Larson Equipment Co.
Los Banos, Murtos Tractor & Implement Co.
Madera, Shafer Implement Co.
McArthur, Bruce Equipment Co.
Merced, Polzine Farm Equipment
Modesto, Equipment, Inc.
Oxnard, Farm Equipment Co.
Porterville, Farmers Tractor & Equipment Co.
Rio Vista, Dolk Tractor Co.
Sacramento, Flood Equipment Co.
Salinas, Ashton Implement Co.
San Diego, Kenton Equipment Co.
San Jose and San Leandro, M. F. D. Inc.
Santa Maria, Sanchez Equipment
Shafter, Frank Russell Mfg. Co.
Stockton, H&M Tractor Co.
Tracy, Sasser Tractor & Equipment Co.
Tulare, Jim Ingle Company
Turlock, Moore's Brake Service
Ukiah, Banzhaf Farm Machinery Co.
Woodland, Yolo Tractor Co.
Yuba City, Oliver Equipment Co.

IDAHO

Boise, Engineering Sales Service, Inc.

MONTANA

Billings, Doyle S. Potts, Inc.
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Kalispell, Wagnild's Farm Supply

NEVADA

Reno, The Roeder Equipment Co.

OREGON

Albany, Herrold & Jensen Implement Co.
Grants Pass, Redwood Tractor Co.
Grass Valley, Hartley Equipment Co.
Gresham, Moen Machinery Co.
Hillsboro, Oliver Sales & Service
Island City, Valley Implement Co.
Maupin, Kenneth Snodgrass
Medford, Eatherton Engine & Equip. Co.
Portland, Oregon Tractor & Equip. Ltd.
Roseburg, Paul Casey Equipment Co.
Salem, A. C. Haag & Company

UTAH

Salt Lake City, Arnold Machinery Co., Inc.

WASHINGTON

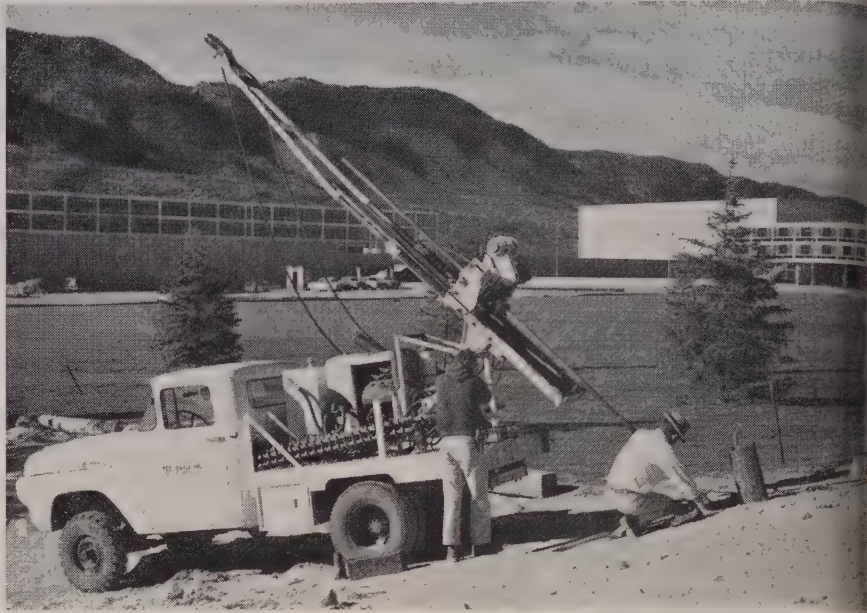
Aberdeen, Gray Harbor Equipment Co., Inc.
Chehalis, Buck & Son Farm Equip. Co.
Everson, Everson Implement Co.
Mt. Vernon, Hamburg Iron Works
Puyallup, Rainier Tractor & Equip. Co.
Seattle, Fray Equipment Co., Inc.
Vancouver, Wiebold's Tractors
Walla Walla, Melcher Ray Machinery Co.
Wenatchee, Mid-State Truck & Machinery Co.
Yakima, Yakima Implement Co.



THE OLIVER CORPORATION
Industrial Division

19300 Euclid Ave., Cleveland 17, Ohio

Equipment for 1960



Foundation exploration for Air Force Academy stadium

To explore the foundation material at the site of the stadium for the Air Force Academy at Colorado Springs, **Testdrill, Inc.** put down 50 to 70 ft. holes with a Mobile Drilling B-40 Explorer. The unit was purchased because of its flexibility to do both core and auger drilling, as well as to perform soil investigation work. This necessitates a drill which has a wide speed range to provide slow rotation of spiral flight augers and fast rotation of core drilling tools. Weight of the unit makes it possible to mount it on four-wheel-drive trucks, tractors, trailers or on skids. A fore-to-aft tilt feature permits the operator to secure samples from any angle from vertical to horizontal.

On this particular testing job the B-40 put in more than 500 drilling hours. Material at the Air Force Academy site is principally the Dawson Arkose formation, which consists mainly of hard sand cemented together loosely, with occasional conglomerate layers and interbedded clays. The average penetration values were found to be about 90-100 blows per foot using a standard split spoon and a 140 lb. weight. The test holes varied in depth from about 50 to 70 ft. and sampling operations were conducted on an average of every 8 ft. of penetration.

Drilling averaged about 110 ft. per 8-hr. day, which also included an average of 15 samplings or penetration drives per day. Sampling was done using both split spoon and Shelby type tube samplers. A 4-in. container flite auger was used and 6-bitting cutting heads.

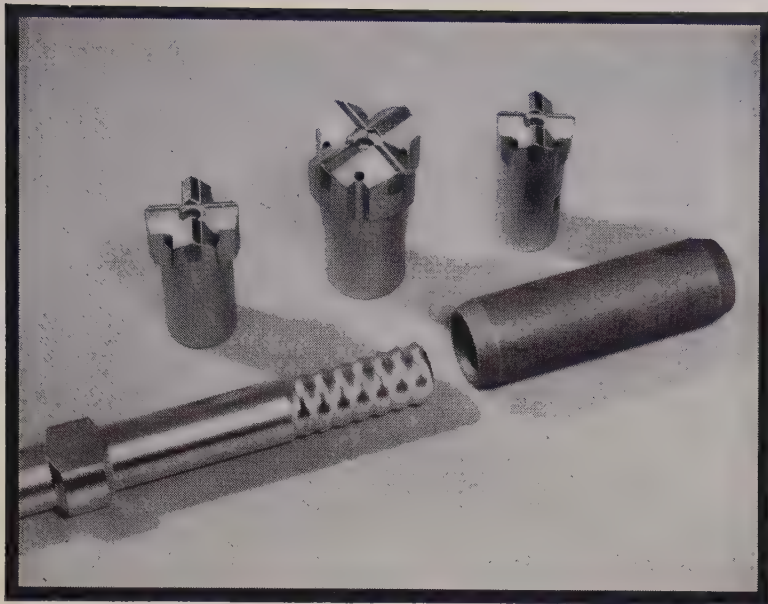
Testdrill, Inc. of Colorado Springs carried out this work for the Lincoln-DeVore Testing Laboratory of Colorado Springs.

... Write No. 22

A 65-ton truck crane with Lorain well known features

The Thew Shovel Co. announces introduction of a 65-ton Lorain Model MC-760 Moto-Crane on a new carrier. It's an 8 x 4, longer and stronger that contains many of Lorain's well known features such as Power-Set Outriggers, Shear-Ball Connection and square tubular-chord boom. The carrier is constructed with a sturdy new welded box-section chassis frame 22 in. deep which virtually eliminates deflection or torsion under the heaviest loads. The 230-in. wheel base provides 14 ft. between the second and third axles, enough to meet the most stringent bridge formula. The unit travels up to 37.6 mph and has air brakes on all 8 wheels.

Lorain's Power-Set outriggers are standard equipment on the new



re's proof Coromant rope-thread bits and steels SAVE TIME AND MONEY

"Up to double the footage between sharpenings!"

"Premature rod breakage is almost non-existent!"

"40% more usable life—more resharpenings!"

"Bit and rod life are well above average!"

"Uncouple by hand all the time!"

*"More rigid—drills straighter holes!"**

**Names of men quoted available on request*

The comments above are actual quotes from project managers, job superintendents, and drill superintendents who have tested new Coromant rope-thread bits and steels. They've learned, on-the-job, the benefits they—and you—can expect!

For example: The new rope-thread (only two turns per inch) holds tight in use, yet permits hand uncoupling. Reports show that the time saved results in more footage drilled per shift. Bit footage is well above average too, with less loss of carbide inserts. Prime quality ore plus nickel-chrome alloy permits cold-rolling from billets for greater strength, life and rigidity. And only with Coromant rope-thread steels can you re-thread without heat treating, too. Do it yourself, or at any nearby machine shop.

Want to know more? There's no obligation on your part, but we'll be glad to help where we can. Just call your nearest Atlas Copco Office, or write to us at Dept. WC-7.

Atlas Copco

610 Industrial Avenue
Paramus, New Jersey
COlfax 1-6800

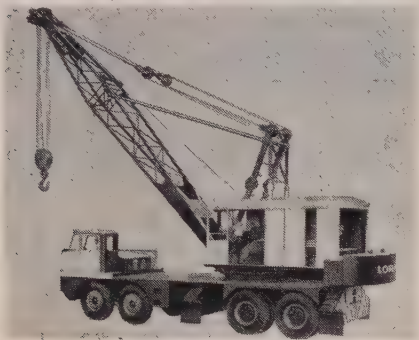
930 Brittan Avenue
San Carlos, California
LYtell 1-0375

... for more details, write No. 67 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

Equipment for 1960

model. A new development by Thew, all 4 outriggers can be extended to working position in less than 60 sec. They automatically adjust to rough terrain, level the machine, are held in position by automatic wedge locks free of hydraulics. Quick-disconnects are provided so outrigger boxes and beams can be unpinned for reduced weight for highway travel.

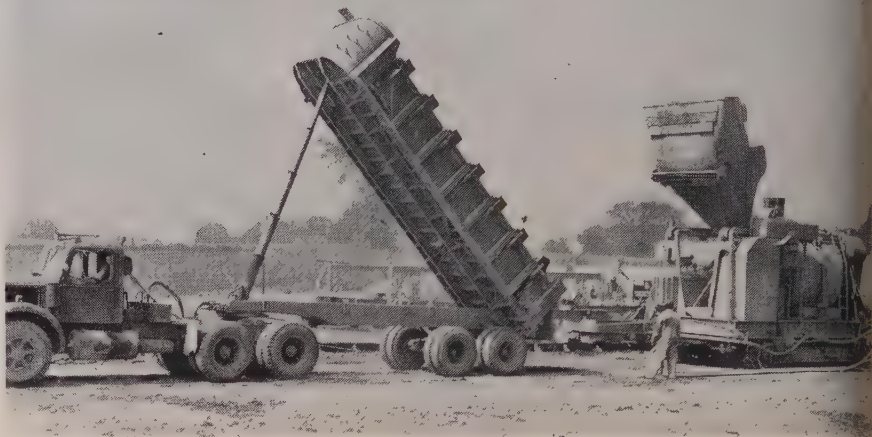
The turntable is attached to the carrier by Lorain's Shear-Ball con-



nection which resembles a huge ball bearing with 70 hardened steel balls snugly sealed in precision ground and hardened races. This feature is now backed up by a recently announced 10-year warranty of freedom from defects in material and workmanship, based on the company's 10 years of experience with this type of design.

The machine is equipped with a 40-ft. basic boom of a new alloy steel.

... Write No. 223



Galion introduces remote-controlled 8-batch trailer

A new 8-batch trailer with remote-controlled hydraulic trippers has been introduced by Galion Allsteel Body Co. Hydraulically operated batch trippers, mounted on the body side, provide instantaneous release of batches from a remote control panel inside the cab. This eliminates the need for a "skip boy" to tend the tripping manually.

Other innovations include: Hydraulically operated levelizers on rear tandems to minimize the danger of tipping when body is in raised position; and a special 30-in. tailgate to guard against dumping damage to tailgate and paving skip. Designed especially for free-

way paving, the batching unit was tested extensively last fall. Used in conjunction with standard Galion 4-batch dump trucks, the 8-batch trailer effected impressive time savings on over-the-highway hauls of aggregate and cement.

Unique design permits quick conversion of the batch trailer to material hauling operations when not in paving use. Paving contractors who observed on-the-job testing of the new trailer were impressed by its efficient operation.

... Write No. 225

Batching plant is highly portable and accurate

A batching plant designed to be mobile, accurate, dependable, and fast is now available from the Erie Strayer Co. The clamshell discharge gate is of a compact design which needs no extra head room. Overall height of the plant is 12 ft. 6 in. and it can be charged with a front-end loader. The cement batcher is factory assembled and is in permanent operating position which helps speed set-up and take-down time.

On the automatic plant the batchers for both cement and aggregate are operated from a one-panel control board in the aggregate plant. No additional power is needed to add an auxiliary silo. Here are the three steps required to get the plant ready for the road: disconnect water and power lines, fold back hinged section of cement chute, tie down scales, uncouple auxiliary silo if any, lower the wheels, couple the plants to two tractors, and you are under way.

... Write No. 226



IN ACTION, this is the most advanced automatic, spray-curing machine — Rex, of Chain Belt Co. Designed to keep up with the fastest, modern paving spread, and protect the slab even under the most adverse drying conditions. The job is done with one operator in one pass. Sprayhead is operated by hydraulic V-belt drive, independent of travel speed. Operator's station has controls grouped for maximum ease and safety, with a clear view of the working area. Transmission provides independent drive on each side for radius work.

... Write No. 224

ALL NEW FROM **HENRY** . . .

a self-loading bucket...



. ON THE UNIQUE NEW HENRY RL-400 REVERSE LOADER

Now for the first time anywhere . . . a reverse loader with Self-Loading Bucket for mounting on utility tractors . . . the greatest advance ever in loader operation!

Rear mounting gives positive, faster, operator control . . . complete visibility of all loader movements! Hydraulically controlled bucket, assures a full bucket every time!

Buy a Henry and get these features in a reverse loader . . . only Henry makes the all new, Reverse Loader with Self-Loading Bucket . . . the RL-400!

That's why . . . "YOU CAN DO IT BETTER WITH A HENRY".

HENRY

MANUFACTURING COMPANY, INC.

TOPEKA, KANSAS

HENRY Equipment is sold and serviced in this area by:

INTERMOUNTAIN WHOLESALE, INC.
Denver, Colorado

FERRIS-KILLION IMPLEMENT CO.
Great Falls, Montana

MITCHELL, LEWIS AND STAVER
Portland, Oregon

THE H. C. SHAW COMPANY
Stockton, California

BRANCHES:
Spokane, Washington
Caldwell, Idaho

BRANCHES:
Santa Ana, California
Fresno, California
Phoenix, Arizona

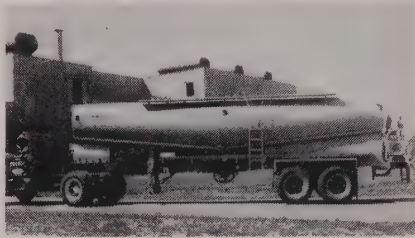
. . . for more details, write No. 68 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

Equipment for 1960

Tank-trailer for cement unloads by "Airslide"

A trailer with a capacity of from 105 to 120 bbl. manufactured by Fruehauf Trailer Co., is unloaded by the "Airslide" principle, a development of Fuller Co. Pneumatic unloading is accomplished with either a tractor-mounted blower driven by a power takeoff or with a gasoline engine mounted on the trailer to power the blower. The pneumatic unloading operation

protects the product from outside contamination from the time it enters the conveying vehicle until it enters the recipient's storage bin.

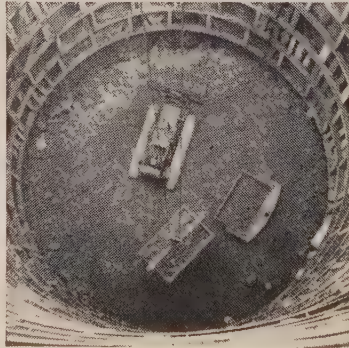


JOINT CONTRACTORS: COKER—KIEWIT—CUNNINGHAM, Inc., SUPT. WM. W. ROBERTS



Construction ran months ahead of schedule on this 3-mile, 21 ft dia. Fremont power tunnel drilled thru hard granite, heavy with silica. Brunner & Lay 1 1/4" type H carbide Rok-Bits used exclusively.

40 ft dia 180' deep surge tank excavated by drilling the granite rock in 5 ft deep rounds using Brunner & Lay Rok-Bits. An average of 90 eight yd buckets of rock removed each day.



NO PLACE FOR BITS YOU HAVE TO "BABY"

Wyoming's Fremont Canyon Power project contractors use Brunner & Lay Rok-Bits 100%



Sharpened bits and steel are assembled in shop; loaded on steel cars which are hoisted up to serve chuck tenders. Result: no broken inserts, cost cut!

For details on this and other difficult, low-cost Brunner & Lay Rok-Bit drilling jobs, call your dealer, or our nearest plant. Request bulletin #759. Brunner & Lay, Inc., 9300 King St., Franklin Park, Ill. 77 progressive years. Plants & conversion shops: Albuquerque, Asheville, Birmingham, Dallas, Denver, Dorchester (Boston), Los Angeles, Long Island City, Philadelphia, Portland, Sacramento, Seattle, Yardley (Spokane), Lachine, Que., Vancouver, B. C.

Brunner & Lay Products

CARBIDE ROK-BITS • INTRASET STEEL • DRILL RODS • COUPLINGS, ADAPTERS & SECTIONAL STEEL Standard or ROPE Thread • AIR TOOL ACCESSORIES—MOIL POINTS, CLAY SPADES, ASPHALT CUTTERS, etc.

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

No person or mechanical device ever comes into contact with the product. Normal discharge rate of the tank is 4 bbl. a minute through a 4-in. hose. Discharge is manually controlled at the center outlet of the pressure trailer by a special valve. At about 11-lb. pressure, cement can be raised 85 ft. to discharge into the top of the storage elevator. Some of the features of the tank-trailer are its steel body and chassis construction, automatically welded where possible; the ladder which gives easy access to the manholes on top of the vehicle; the skid-resistant servicing on the walkway at the top; the large size manholes; the water-proof air-tight cover locked and sealed by six adjustable clamps; and the bolted construction which permits suspension to be moved forward or rearward to allow maximum payloads in compliance with weight distribution required by state laws.

... Write No. 227

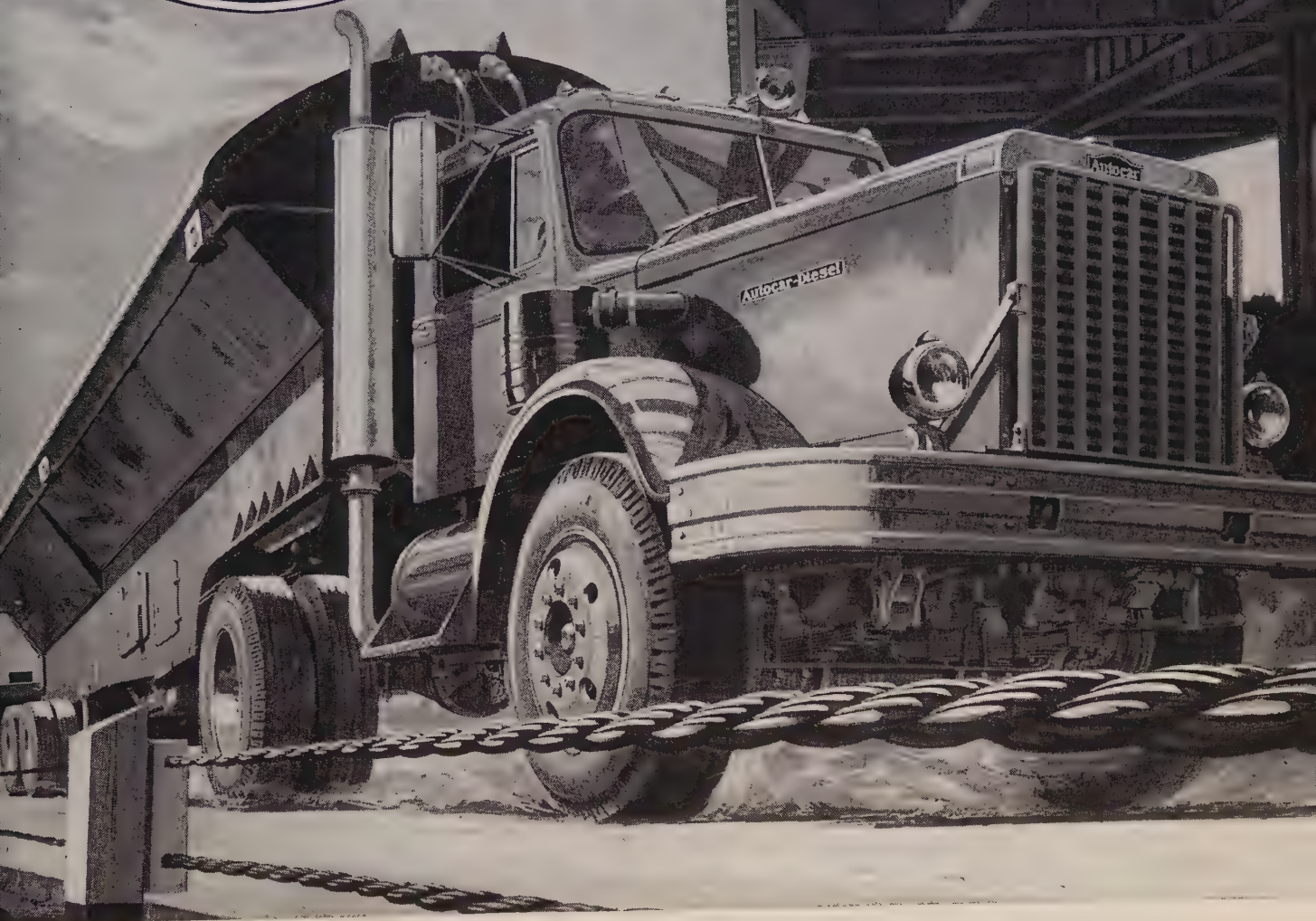
Screed for narrow spans

A light-weight aluminum vibrating screed which is ideal for narrow spans has been put on the market by Stow Mfg. Co. It consists of an aluminum channel made to whatever length required with a Stow 3/4-hp. DU Electric Vibrator mounted on it. The vibrating head is 1 1/4 in. in diameter and bolted



to the beam. The flexible shaft varies in length depending on the length of the screed. With vibrations transmitted through the beam the screed will walk along the pre-stressed concrete beam or whatever narrow span it is put on by itself and the operator just has to guide it. The vibrating screed strikes off the concrete slab and vibrates it at the same time. The fact that this screed is so light (46 lb. for a 4-ft. span) makes it ideal for use on pre-stressed concrete beams, particularly if there are depressors which make it necessary to lift the screed every few feet. Rubber-mounted handles minimize operator fatigue.

... Write No. 228



First heavy-duty truck ever built by the new set of rules

Result: Up to 4,475 lbs. off chassis—into payload!

"Cut as much as 25% off chassis weight...carry the savings in extra payload...keep it just as strong and powerful."

These were the rules that Autocar built so successfully into its new line of *all-lightweight-design* highway

trucks and tractors. But there was another rule that overrode them all:

"Keep it as fine and trouble-free as all other trucks that have carried the Autocar name." So Autocar engineers wrote themselves a new set of rules—and built an entirely new

truck, all the way from the aluminum frame to the roof of the cab. These new "A" models fulfill all of today's (and tomorrow's) highway requirements—*plus* the comfort, safety, reliability and serviceability that have made Autocar famous. See 'em!



Division of
The White Motor Company
Exton, Pa.

for more details, write No. 70 on Reader Service Postcard

You See More

"HARDROK"

Everywhere!



**Yellow Cover
Black Spiral Stripe**

"HARDROK" Wire Braid AIR HOSE is being more and more widely used as its reputation for unequalled performance grows. You'll find it coupled to drills, jumbos and other heavy-duty air equipment on the toughest, roughest jobs. There's no mistaking its yellow cover with black spiral stripe . . . sure sign of longer service life and lower hose costs.

"Hardrok" specifications include oilproof Synplastic® tube; horizontally braided steel wire carcass; tough, wear-resistant rubber cover; ½" to 3" sizes; maximum lengths of 50 feet.

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GENERAL OFFICES, MILLS and EXPORT DIVISION, TRENTON, N. J.
BRANCHES AND DISTRIBUTORS THROUGHOUT THE UNITED STATES.
IN CANADA: GOODALL RUBBER CO. OF CANADA LTD., TORONTO.

**Drillmaster of I-R is the
big machine for deep holes**

A big drill rig which specializes in holes up to 6½ in. in diameter is Ingersoll-Rand's Drillmaster, a mobile rig which uses I-R's downhole drill. The downhole drill is the most powerful and trouble-free unit of its type that goes down in the hole with the bit. It is encased in an easily removed and reversible wear sleeve, no need to discard the entire drill or drill-cylinder when subjected to excessive gage wear. Chuck design engages bit without any troublesome threaded connections, delivering full impact power directly to the shank end of the bit. A simple check valve attached to the upper end of the



downhole drill seals against reverse air flow and prevents water and cuttings from entering drill when changing steels with drill below water level. When the air supply to the drill is cut off a check valve prevents the air in the drill from escaping.

Independent rotation is provided by a powerful air motor that can be stalled without damage. Since air motor is attached to upper end of steel, drill rotates even before entering the ground, simplifying hole starting as compared to rotary-table drives. Other features of the Drillmaster are a protected chain feed, an enclosed compressor plant, three hydraulic leveling jacks, simplified controls and steel changing, and complete replacement parts service.

... Write No. 229

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



New steels are
born at
Armco

Tuffy Wire Rope Tips



on Safe Use
of Wire Rope
and Slings



On the Blink
from a Kink

Mishandling of rope caused this open kink. Avoid kinks by proper winding on the drum. Never pull a loop smaller. Enlarge it, then straighten out the rope.



Overloaded -
Soon
Exploded

The rated capacity of a wire rope is based on breaking strength divided by the load factor for particular type of service. Grade of steel, type of construction and size of rope determine tensile strength. Unless rope is properly related to loads, costly and dangerous early failures are likely to occur.

Mangled in a Wedge Socket



Here's a result of improper socketing, caused by poorly designed or worn-out wedge socket. Can be costly and hazardous!

Victim of the "Bends"



Excessive bending of rope speeds up wear. General rule: use more flexible ropes as bending stresses increase (with decrease in tread diameter of sheave or drum). If sheaves are too small, early rope failure is certain.

Would you like a copy of a booklet in which more than a score of Tuffy Tips like those above are reproduced. If so, write Union Wire Rope Corporation, 2146, Manchester Ave., Kansas City 26, Missouri.

g Paul, The King of Spades, world's largest electric power shovel. In taking 105 ton bite (2 rail carloads) it imposes a maximum bail pull upon the wire ropes of 550,000 lbs. One-half mile of wire rope is required in its operation by the Peabody Coal Company at its modern River King Mine, Freeburg, Ill.

Look Up Your Union
Distributor In Phone
Book Yellow Pages

He's selected for his ability and willingness to supply you with the right Union standard or Tuffy wire rope construction, to check for proper installation and coach your operators in proper use to get the ultimate in service life. He is backed up by a nearby Union branch office and warehouse. If you would like to receive Union's Rope Dope Educational Bulletin, write Union Wire Rope Corporation, 2146, Manchester Ave., Kansas City 26, Mo.



Tuffy Balanced
Slings and
Distlines



1-C



UNION



Wire Rope

Subsidiary of ARMCO STEEL CORPORATION

OTHER SUBSIDIARIES AND DIVISIONS: Armco Division • Sheffield Division • The National Supply Company
Armco Drainage & Metal Products, Inc. • The Armco International Corporation • Southwest Steel Products

... for more details, write No. 73 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

Equipment for 1960



Sub-base work speeded by Lima Super Roadpacker

Here's how one contractor kept ahead of a fast-moving paving spread. He used a Caterpillar tractor to push a specially built Blaw-Knox spreader which laid out a smooth uniform mat of subbase, 30 ft. wide and 10 in. thick. The mammoth spreader kept a fleet of trucks hard pressed to keep its gaping mouth filled. Following close behind (see photo) was a Lima Super Roadpacker, another out-sized machine. A double row of vibrators in tandem compacted a 15 ft. wide swath. The big compactor produced the equivalent of two multi-shoe vibrators in one pass. Although huge in size, the Lima

Super has a wide range of compacting travel speeds and a transporting speed of 24 mph.

... Write No. 230

World's largest truck crane for long booms—heavy loads

Capable of making lifts as high as 21 stories and as heavy as 80 tons, the P&H 775A-TC, made by Harnischfeger Corp., is the world's largest truck crane. In the photograph the 80-ton 775A-TC (foreground) and a 50-ton P&H rig in the background are shown setting a slip-form for the San Antonio wash channel near Pomona and Chino, Calif. The rigs are owned and operated by Crane & Rigging Co., El Monte, Calif.

Features of the big crane are

Magnetorque, the patented P&H swing assembly that eliminates swing linings, replacements, and adjustments. At the same time work cycles are increased with an outstanding ability to handle long booms and heavy loads with unusual smoothness and accuracy. Direct action hydraulic controls assure accurate spotting of 80-ton loads of 12-ft. radius. Both carrier and upper frames are of all-welded



E. ROY DAHLSON (right), General Manager of Coberly-West Company, Bakersfield, says: "Cotton ginning is a 'shirtsleeves' kind of business. That's why we like the 'shirtsleeves' approach of Industrial Indemnity's safety engineers. They actually get out into our eleven gins and help us prevent accidents which could have sent our workmen's compensation costs skyrocketing. In addition, the services they perform are humanitarian, and they help keep the morale and efficiency of our 400 employees at peak operating levels. Thanks to the recommendations of our insurance agent, Walter Lindecker (left), of the Walter Mortensen Agency, we've enjoyed the benefits of Industrial's quality service for years."

MODERN INSURANCE FOR MODERN BUSINESS

INDUSTRIAL
INDEMNITY
COMPANY

fire • casualty • bonds • workmen's compensation sold through agents and brokers exclusively
... for more details, write No. 74 on Reader Service Postcard
WESTERN CONSTRUCTION—January 1960

ANOTHER
SATISFIED
INSURANCE
BUYER

construction for greater rigidity. Exceptional roadability is achieved by removing the boom, guy lines, pin-connected, swing-away counterweight, boom block and outrigger housings and floats; weight can be reduced to 91,500 lb. distributed over four axles. The unit is powered either with gasoline or diesel engine, mounted on a carrier with a P&H diesel designed to rigid P&H specifications. Dimensions of the carrier are 33 ft. long, 11 ft. wide and 13 ft. 4 in. high to the top of the cab. When working with standard boom the complete unit weighs 133,800 lb. Carrier has 15 speeds forward and 3 reverse.

... Write No. 231

Crawler type self-propelled earth drill rigs

A new series of earth drills equipped with track crawlers, making them self-propelled units for easier off-highway maneuverability, is announced by Calweld, Inc., manufacturers of rotating bucket type earth drills. Additional features of Model 500 self-propelled crawler, include a kelly bar crowd to provide additional digging pressure on the bucket drill when in tough, hard substrata; a new hydraulically-operated dumping arm for faster,



safer dumping, and built-in hydraulic jacks to stabilize and level and rig for precision drilling.

The new model is equipped with gasoline power, although diesel is optional. Derrick length is 42 ft. Total weight is 40,760 lb. A variety of attachments are available to handle virtually any earth boring job, making holes from 12 to 120 in. in diameter and 200 ft. deep. Telescoping kelly bar permits drilling to 90 ft. without drill stems.

Calweld earth drills are well-known for their fast, two-man operation in boring caisson pier holes, belled concrete footings and piles, and for test boring, dewatering, and many types of excavating work.

... Write No. 232

OWEN BUCKETS

ALL THE GIANT OF THEM



The following five combined features make OWEN the big giant performer ... for any type of clamshell work ... for any model or make of crane.

1. Block and Tackle Type Reeving
2. One-Piece Head Construction
3. Riveted Bowl Assembly
4. Single Main Shaft
5. Recessed Lips

Added to these construction features are more than fifty years experience in the manufacturing of clamshells ... and nothing else! For any job that requires a clamshell, there is an Owen to fill the bill ... backed by proven construction design and over one-half century of experience.



Put the Giant on your crane — OWEN — and know the work will be done faster, better and more economically.

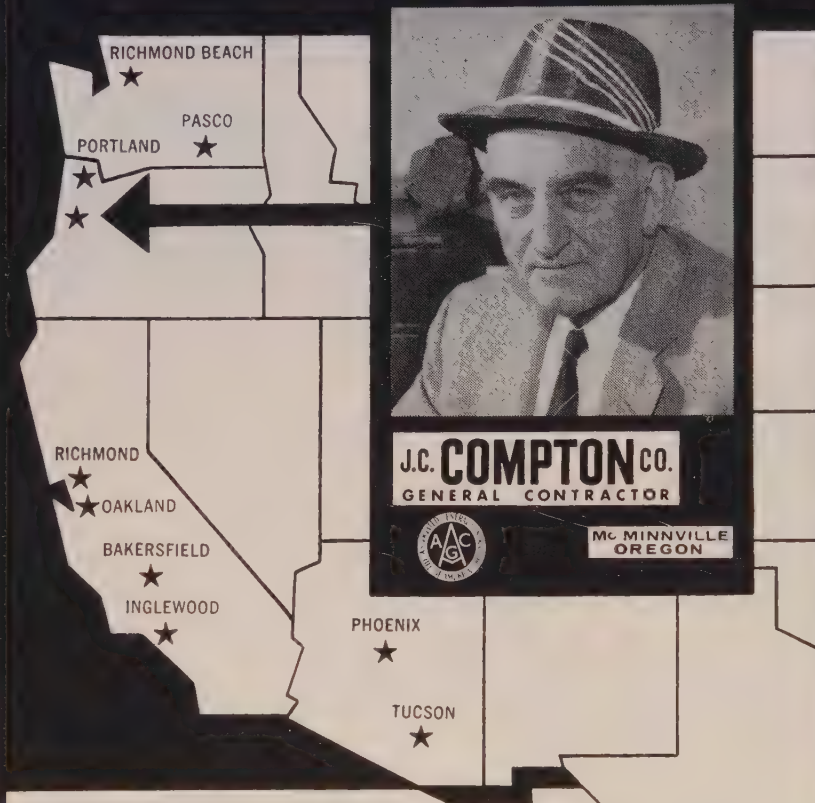
**Write today for any specific
or additional information**

The OWEN BUCKET Co.
BREAKWATER AVENUE, CLEVELAND 2, OHIO
BRANCHES: New York • Philadelphia • Chicago
Berkeley, Calif. • Fort Lauderdale, Fla.



... for more details, write No. 75 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

ABACO Salutes Outstanding Service



J.C. COMPTON CO.
GENERAL CONTRACTOR



MC MINNVILLE
OREGON

IN 1959, Mr. J. C. Compton, President of the J. C. Compton Co., will complete fifty-two years in the general contracting and roadbuilding business! A "pioneer" in the industry, Mr. Compton has been a leader in the development and application of methods, machines and materials for road construction. We are proud that, over the years, our plant in Portland has had many opportunities to supply much of the material used by the Compton Company.

We look forward to continuing our service to the Compton Company in the years ahead, and we salute the man who has guided this firm to the prominent position it enjoys today.

At your Service Throughout The Nation—to provide maximum service to you—our customers—we have set up a "network" of over fifty installations—refineries, plants, terminals and offices—in strategic locations from coast to coast. This is your assurance of on-time delivery of uniform products whenever or wherever, you order Chevron Asphalts, Chevron cut-backs, and Bitumuls emulsified asphalts.

Call our office nearest you for information or service.



**American Bitumuls
& Asphalt Company**
320 Market St., San Francisco 20, Calif.

Perth Amboy, N. J.
Baltimore 3, Md.
Cincinnati 38, Ohio

Atlanta 8, Ga.
Mobile, Ala.
St. Louis 17, Mo.
Tucson, Ariz.

Portland 8, Ore.
Oakland 1, Calif.
Inglewood, Calif.
San Juan 23, P. R.

BITUMULS® Emulsified Asphalts • CHEVRON® Paving Asphalts
LAYKOLD® Asphalt Specialties • PETROLASTIC® Industrial Asphalts

New method of reworking oil roads by plowing

In many conditions, one or two passes through scarified oil road surfacing with a Rome Disk Plowing Harrow can reduce the material to aggregate size for easy handling. This method has been successfully applied to street resurfacing. Here were the steps taken to reclaim chuck-holed oil roads: 1. The oil road was ripped with a motor grader scarifier. 2. Traxcavator with



Rome Disk Plowing Harrow made one or two passes, as required, reducing scarified oil road to small, easily blended pieces. 3. Material was bladed and leveled with the motor grader, then rolled to specified smoothness and density, and oiled where necessary.

This method produces a fine, smooth road at minimum cost and low investment. No elevating or special handling is required. When the temperature is more than 70 deg., it can be cut directly with the harrow; when lower, it must be scarified.

... Write No. 233

Manitowoc 4000 is the world's largest lift crane

A lift crane which has the largest capacity in the world at 125 tons is now available from the Manitowoc Engineering Corp. The machine is available with independent boom hoists, independent swing and brake, high capacity gantry, automatic and pantograph boom stops, removable counterweight, equalizer and pendant type of rigging in manual or air controls. A choice of diesel engines is available. Torque converter is standard. The standard machine is equipped with 21-ft. 10-in. crawlers and 48-in. treads. Crawler width over all is 18 ft. 6 in. Weight is about 265,000 lb. Model 4000 will load on flat cars as quickly and in the same manner as the easily transportable Model 3900.

... Write No. 234

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

Screen Story

"OVERSTROM ON THE JOB"



OVERSTROM & SONS, INC.
VIBRATING SCREENS

2213 WEST MISSION RD • ALHAMBRA, CALIFORNIA

Would you like to receive future
copies of "Screen Story"? Drop
us a line at the above address.



At the Santa Maria, California, plant of Southern Pacific Milling Company, a 6' x 16' Overstrom Single-Deck washing and de-watering screen stands guard over the WEMCO HMS installations. The big Overstrom takes two sizes in parallel on its double-crowned divided deck—removing that final bit of dirt and excess water just ahead of the two HMS plants.

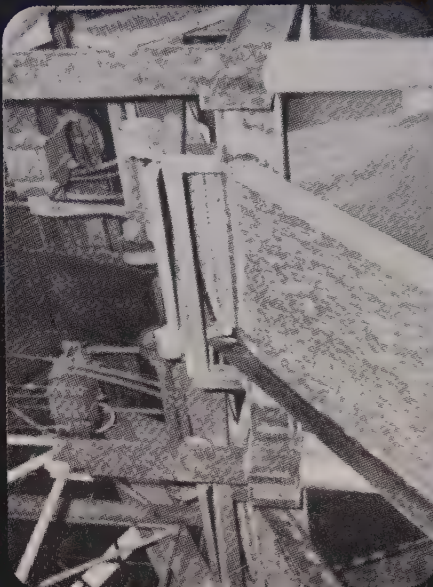
Mr. Glenn Smith, partner in Industrial Roofing Rock, San Bernardino, uses two Overstrom Screens to produce high-quality white limestone for architectural and fine plaster products. One of the two 3' x 10' double-deck machines is equipped with dust enclosure and ball cleaners to produce 16 x 40m. and minus 50m. products efficiently and without blinding.



In the Pacific Northwest, near Seattle, this hard working semi-portable plant of W. D. Brear Company, produces minus $\frac{3}{8}$ " crushed rock at the rate of 100 TPH through the bottom deck of an Overstrom 4' x 12' Triple-Deck Vibrating Screen. The top deck is in closed circuit with a cone crusher, and the second and third decks with a set of rolls.



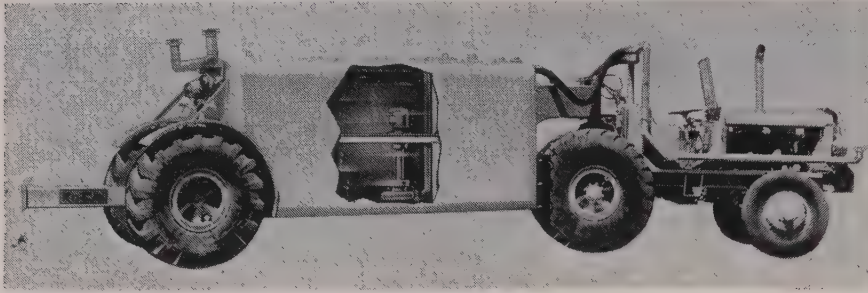
Mr. Howard McClintock, plant superintendent for Santiago Aggregates, Orange, California, watches one of their top quality washed products come over the upper deck of a 5' x 12' Overstrom Double-Deck Screen equipped with water sprays. This 250 TPH plant utilizes Overstrom & Sons Vibrating Screens throughout—from primary scalper to sand screens.



Reliance Clay Products Company, Lindale, Texas, recently added a third unit to this pair of electrically-heated 4' x 10' Overstrom Step-Deck clay screens. These top-efficiency machines pass minus 6m. raw clay to the pug mill, returning oversize to the dry pan. There's no screen blinding from damp clay, thanks to the heaters.

... for more details, write No. 77 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

Equipment for 1960



Water wagon of 5,800-gal. size

A machine which promises to see wide use on the West's earthfill dams and large highway embankments is the Model 680 Water-Cator, a 5,800-gal. capacity powered water wagon, a product of the **Koehring Company of California**. It is designed for use with rubber tired tractors. Outside engines and piping have been eliminated, reducing maintenance costs. The units are equipped with a hydraulically-driven water pump system submerged within the tank with necessary controls provided on the tractor. The pump runs only when spraying, and the spray is available

front and rear. It provides for direction and volume control as well as positive shut-off. The machine is equipped with push-block extension and a towing yoke can be provided to suit any make of tractor. Other sizes are also available. The Model 580 is 9 ft. 11 in. wide (tires) and 9 ft. high. Weight is about 20,000 lb.

... Write No. 235

Contractor steps up pace with bigger surge bin

A 20-ton surge bin atop an **Engineered Equipment Portable Conveyex** enabled Allison & Haney Construction Co. to easily charge

their 3-yd. mixer at a rate of 72 yd. per hr. on their Raton, N. Mex. project. Production well in excess of this figure is possible with a shorter mixing cycle or larger mixing equipment. Two Nomad portable cement silos with a combined capacity of 600 bbl. of bulk cement feed the cement-weighing compart-



ment of the Conveyex. A 30-in. conveyor moves the combined materials to the mixer. The surge bin is charged by 24-in. stone and 18-in. sand conveyor. All components are arranged for ready portability from one job site to another.

... Write No. 236

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A compact, complete and easy-to-use buying guide. The Yellow Pages help you find *everything* you need for your business. You'll also find the brand names of any equipment you need. They're listed in alphabetical order with their dealers under the product or service heading. For *everything* you need in your business, turn first to your most complete local source—the Yellow Pages.

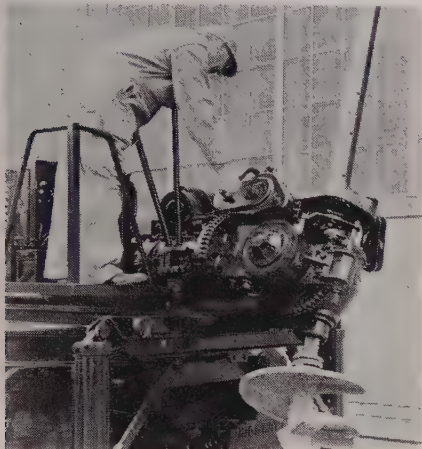
You'll find everything fast in the...



... for more details, write No. 78 on Reader Service Postcard
WESTERN CONSTRUCTION—January 1960

Earth-borer machine has fast and easy positioning

The Utility Division of Highway Trailer Co. has introduced a new power-leveling mechanism, now available on two models of its earth-boring machines. The device, which makes positioning fast and easy in all directions is optional equipment on Model HDA and



HDAMS earth-borers. With dual power-leveling control conveniently located at the top, a turn of the mechanism puts the rack bar and derrick in the exact position desired.

This feature permits rapid leveling where necessary on guard rail and line construction jobs.

... Write No. 174

Front-end loader

A front-end loader which is both rugged and versatile is the 2-yd. Lorain Moto-Loader, Model ML-157, a product of the Thew Shovel Co. The photograph shows how one contractor used it both as a front-end loader and as a crane to



place heavy pipe sections. The machine was used to dig its own access road down to the sanitary sewer manhole locations which were as much as 31 ft. in depth. It then transported 6,000-lb. 8-in. thick, concrete pipe sections into their final locations and back-filled the ramp.

... Write No. 175

for the many DIFFERENT USES in the CONSTRUCTION FIELD



THERE'S A PACIFIC WIRE ROPE BUILT FOR YOUR INDIVIDUAL APPLICATION

"Designed Engineered Construction" is the reason why PACIFIC Wire Rope can do a better job for you. Only PACIFIC Wire Rope is "EQUALIZED," which means the rope is "broken in" — can be used right from the start — does not have to be babied as all other ropes do ... gives you better performance, longer life, dollar savings.

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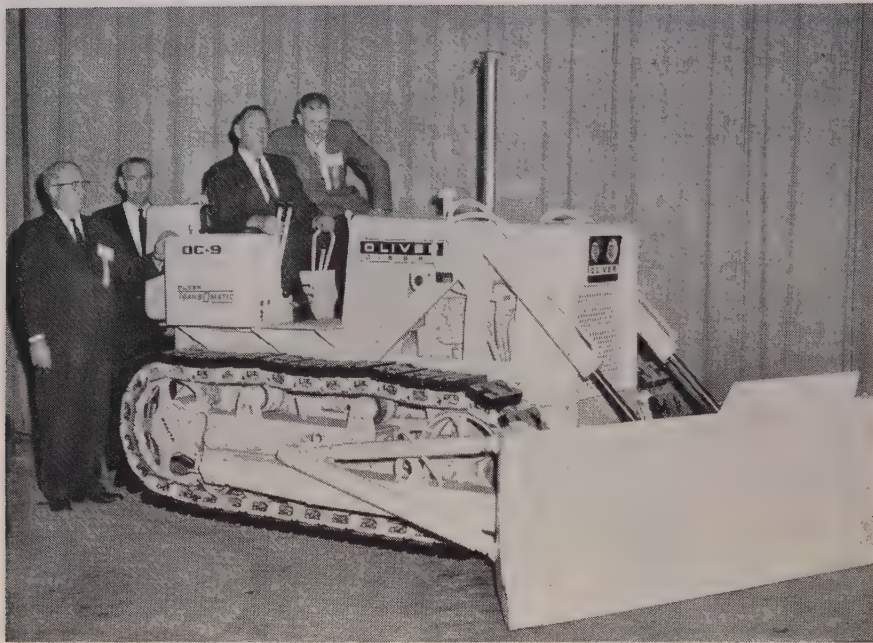
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See manufacturer's detailed listing in Yellow Section



"The Blue Reel"
TRADE MARK REG.

Equipment for 1960



10-ft. angle blade on Oliver OC-9

The Oliver OC-9 crawler is now available with a 10-ft. 4-in. angle-dozer blade with hydraulic blade control, the **Oliver Corp.** announced. The blade is 33 in. high, has an operating range from 14 in. below ground to 30 in. above, can be angled 25 deg. to either side, and tilted 14 in. to either side.

Equipped with this blade, the tractor has an operating weight of 12,595 lb. Basic tractor, the OC-9, was recently introduced by the company. Equipped with a 4-cyl. diesel of 51-flywheel hp., it features a torque converter, constant mesh transmission and Trans-O-Matic power shifting to give quick reverse, and an infinite range of speeds from 0 to 5.9 mph. forward and 0 to 7.9 mph. reverse. Crawler is highly maneuverable, making gradual turns, spot turns, or counter rotation turns which spin it around in its own length. A leader in its horsepower class, the OC-9 has a maximum drawbar pull of 16,900 lb.

A modified version of the basic tractor, model OC-96, is equipped as a 1-yd. loader. Tracks are located 5 in. farther ahead for better loading stability.

Shown above is the OC-9 with rubber track shoes and new angle blade introduced at the Oliver Fair in Waterloo, Ia., where the 1960 Oliver line was exhibited. Westerners examining the unit are, from left, C. R. Hunt, Western

regional sales manager; Howard Chapin, industrial representative for Southern California and Arizona; Jack Larson, Larson Equipment Co., Los Angeles; and George Blow, Oakland branch manager.

... Write No. 176

Adjust your conveyor belt by hydraulic pressure

A conveyor belt tension and alignment adjusting device which utilizes hydraulic pressure instead of the old concept of screw take-ups has been developed by **Western Conveyor Co.** This new hydraulic adjuster is the Schrock Hydraligner which provides variable positioning of a conveyor pulley for proper belt tension and alignment. It consists of a hydraulic cylinder attached to a bearing housing. The piston is moved by pressure applied with an ordinary grease gun, and it holds its position with pressure



maintained by positive-action piston seals. The Hydraligner was developed to provide faster, safer and more dependable conveyor belt adjustments. By eliminating wrench work on rust-prone threads, it saves up to 80% of the time required for tensioning and alignment by conventional screw take-ups.

... Write No. 177

This pile driver is fast and agile in movement

Two proven field products, the **Gardner-Denver Air-Trac** and the **Vulcan pile-hammer** have been combined to form a speedy maneuverable pile-driver. Combining these two machines has created a rig with outstanding mobility and versatility. Powered by two 5-cylinder radial air motors the "Trac-Hammer" will turn on its own radius, tow its own air supply, and travel with ease in the roughest



terrain. A large variety of accessory tools makes it the most versatile machine of its kind, it drives any type of pile at any angle from vertical to horizontal. It can drive pipe-piling up to 6 in. in diameter without alteration to the hammer. It is easily maneuvered by conveniently located controls to quickly get at hard-to-reach corners. It effectively breaks paving or other traffic-bearing construction as it moves along.

... Write No. 178

More New Equipment
on page 192

PREVENT STRIPPING
due to snow and rain use

DEHYDRO

ANTI-STRIPPING ASPHALT ADDITIVE



TRETOLITE COMPANY
DEHYDRO
LOS ANGELES, CALIFORNIA

*Specializing in chemicals
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5515 TELEGRAPH ROAD, LOS ANGELES 22

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ADVANTAGES:

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NETHERLANDS: F. E. C. Jenkins, Hoefbladlaan 134, The Hague

PERU: International Gas Lift Company, Apartado 71, Talara

TRINIDAD: Neal and Massy, Ltd., Port of Spain, P. O. Box 544, San Fernando

... for more details, write No. 80 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

Corps of Engineers makes change in contracting procedures

TWO MAJOR changes have been made in U. S. Army Corps of Engineers contracting procedure, according to an announcement made by Brig. Gen. Robert G. MacDonnell, Division Engineer, U. S. Army Engineer Division, South Pacific.

U. S. Army Corps of Engineers contracts will now require prime contractors to provide additional superintendence for subcontracted work, under certain conditions as follows:

(a) If less than 70% and more than 50% of the value of the contract work is subcontracted, one additional superintendent shall be provided at the site and on the contractor's payroll to be responsible for coordinating, directing, and expediting the subcontracted work.

(b) If 70% or more of the value of the work is subcontracted the contractor shall be required to furnish two additional superintendents to be responsible for coordinating, directing and expediting the subcontract work.

If the contracting officer at any time after 50% of the subcontracted work has been completed finds that satisfactory progress is being made, he may waive all or part of the above requirement for additional superintendence subject to the right of the contracting officer to reinstate such requirement at any time during the progress of the work if he finds that satisfactory progress is not being made.

The second change calls for a monetary charge prior to the release of contract drawings. This will apply to all persons and firms who request drawings in response to an Invitation to Bid.

To establish uniformity throughout the Army Engineers, the price charged for one-half scale drawings will be based on a cost of ten cents (\$0.10) per sheet of drawings. A minimum charge of \$5.00 per set also has been established. However, General MacDonnell said, if

the specifications require five or less sheets of drawings, the one-half size will be attached to the Invitation and issued at no cost.

For full-scale drawings the charge will be based on fifty cents (\$0.50) per sheet. The full-size drawings will be furnished only to the individuals or firms who have purchased half-size drawings.

Payments will be made in the form of money order or certified check, made payable to "Treasurer of the United States". Payments will not be refunded and the drawings need not be returned.

The requirement for additional

(Continued on page 167)

Seattle to vote on bonds for arterial streets

VOTERS of Seattle will be asked to approve a \$26,00,000 bond issue for improvement of arterial routes in the city. The election will take place on March 8. The program has been approved by a committee

of citizens as well as the engineering department of the City of Seattle. Funds should provide for six years of street improvement, the major project being a \$14,000,000 extension of Empire Way and four projects for cross-city arterials.

The overall program would represent about twice the amount of the bond issue, with the remainder coming from regular street revenues and State and Federal funds.

\$25,000,000 hydro project planned for Oregon

A \$25,000,000 project is being considered by Consumers Power, Inc., which is a rural electric cooperative, to be built on the North Fork of the Santiam River. The dam site is about 2½ mi. downstream from Big Cliff Dam of the Corps of Engineers, and the project will develop about 65,000 kw. Preliminary plans would include a dam 65 ft. high with about 10 mi. of canal and tunnel to a power plant near Mill City.

Present status of the project is the filing of necessary applications to both the State of Oregon and the Federal Power Commission. Application to the FPC is for permission to make engineering studies prior to requesting a construction permit.



CROSSES MONTANA AND GOES TO WORK IN FOUR DAYS

A veteran of 1,000,000 tons, this Barber-Greene continuous mix central plant produces mix for S. Birch, Inc. of Great Falls, Mont. It is producing 150 tph. for a Birch job near Lincoln, Mont., near the Continental Divide. This highly portable plant was moved from Shelby, Mont. and set up in four days.

Newly appointed California highway engineer dies

J. W. VICKREY, California's State Highway Engineer, died Dec. 4 in a Sacramento hospital at the age of 67. He was appointed on October 1 to succeed G. T. McCoy as the chief of the California Division of Highways. Vickrey had been with the Division of Highways for 42 years. For the past 12 years he had been closely identified with the California freeway program as the Division's chief planner. He was born in Hendricks County, Indiana, in 1892, and raised in that state. He studied engineering at the Los Angeles Polytechnic Institute.

After some engineering work with the Southern Pacific Railroad and the Los Angeles County Surveyor's office, Vickrey went to work for the Division of Highways in Mendocino County in 1917 as a transitman. In 1925 he was appointed assistant engineer in charge of location and construction for District III, at that time with offices in Sacramento, and three years later was appointed District Maintenance Engineer.

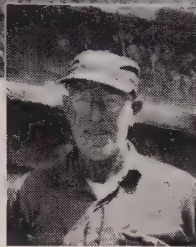
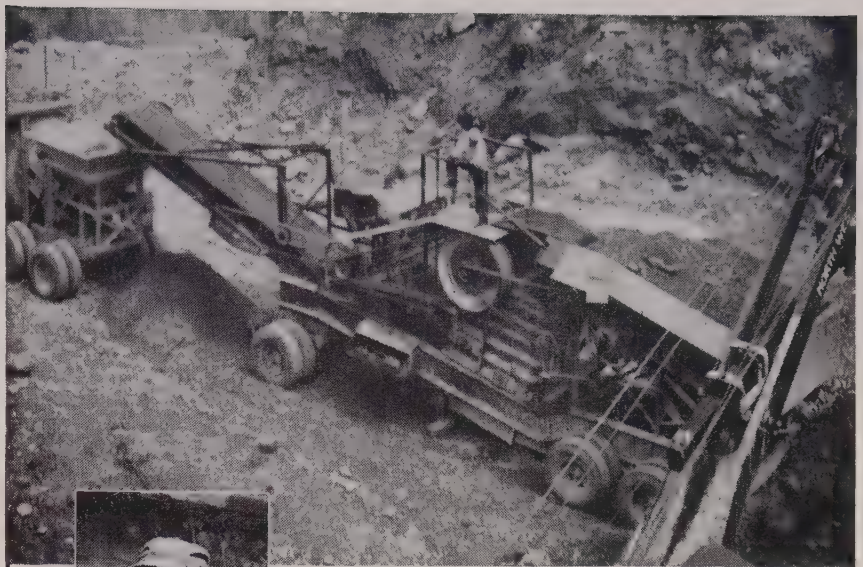
After serving as District Engineer at Eureka, he was promoted to Traffic and Safety Engineer in 1938, and remained in the Sacramento headquarters office ever since. He was named Deputy State Highway Engineer in 1955, with responsibility for all the various engineering phases of the California highway program.

Vickrey's professional affiliations included membership in the American Society of Civil Engineers and the American Association of State Highway Officials.

J. C. Womack has been appointed state highway engineer, and chief of the California Division of Highways.

Huge hydro project to start in British Columbia

IF government approval is granted, construction work can begin this spring on a \$375,000,000 development on the Peace River power project in northern British Columbia. The project would be carried out by the Peace River Power Development Co., and would include a transmission line connection into the Pacific Northwest so that maximum use could be made of present and future power development on both sides of the International Boundary.



Veteran contractor-producer says:

"150 to 200 tons/hour 'routine' for my Lippmann portable crusher"

Want a tip on how to produce lower-cost aggregate? Take a look at the performance Sell Bros. Stone & Gravel gets from their Lippmann portable primary, working scattered pits in East-Central Wisconsin.

When producing at their Sherwood quarry, Sell Bros. 24 x 36 Lippmann averages 150 tons per hour with 95-100% reduction of blasted limestone, producing minus 3/4" material. With the same plant, working at their gravel pit near Brillion, they regularly get 200 tons per hour, at 70% reduction, feeding a secondary crusher.

Sell Bros. bought their first Lippmann primary in 1950. Their

second Lippmann (pictured above) is now going into its second season ... hasn't had a minute's downtime for repairs of any kind. With this history of money-making performance, you can see why Al Sell says, "When we're ready for another primary you can bet it will be a Lippmann."

When can we get together and talk over your materials-producing requirements? A phone call to your Lippmann distributor, or a direct request for literature, will get the ball rolling. Lippmann portable equipment available in both single and dual-stage crushing plants, washing plants, conveyors and related auxiliary equipment.

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**ENGINEERING
WORKS, INC.**

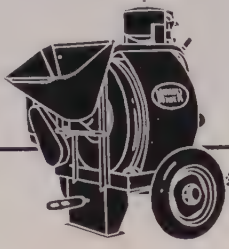
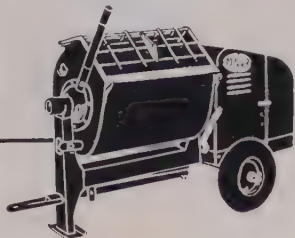
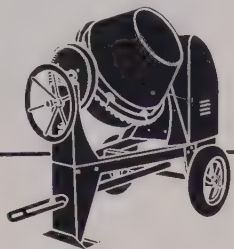
MILWAUKEE, WISCONSIN

... for more details, write No. 81 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

TILTING CONCRETE MIXERS 3½ and 6 cu. ft. (mixed concrete). Electric or gasoline. Timken Bearings.

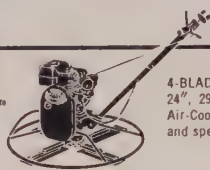
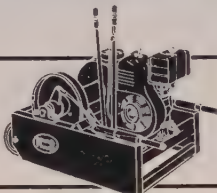
PLASTER and MORTAR MIXERS 5 sizes, 2 to 12 cu. ft. Electric or gasoline. Power throw-out on smaller models, disc clutch on larger.

NON-TILTING CONCRETE MIXERS 2 Models: 3½ cu. ft. with batch hopper, and 6 cu. ft. with power loader skip.



MULLER MACHINES are RUGGED!

BUILDERS' and ROOFERS' HOISTS 6 models—200, 300, 400, 500, 750 and 1000 lbs. capacity. Portable, easily set up. Positive chain and sprocket drive.



4-BLADED POWER TROWELS 24", 29", 34", and 44" dia. Air-Cooled Engines. Clutch and speed controls on handle.

ALL MULLER MACHINES are tough! They stand up to rough handling without break-downs or frequent parts replacements, because they are products of the best in engineering, ma-

terials, and workmanship. Yet, for all their strength and durability, **MULLER MACHINES** are not high-priced...in fact, no other machines of comparable quality are priced lower.

DISTRIBUTORS: Some profitable distributorships are still open.

In addition to the units illustrated here, Muller also manufactures: Floor and Tower Hoppers, Concrete Carts, Foundry Core Sand Mixers, and Space Heaters.

Ask for literature, prices and name of local dealer.



MULLER MACHINERY COMPANY, Inc.

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See manufacturer's detailed listing in Yellow Section

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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!

Developed after years of research by Department of Highways, State of Washington. Opens up entirely new possibilities for foundation and soils engineers and contractors who can now make accurate moisture-density and compaction tests, quickly and easily.

- in small or large holes up to 3 ft. deep
- in all types soils and granular base materials
- in approximately 3 minutes after hole is dug

CONTRACTORS AND ENGINEERS: Stop over-compaction, under-compaction ... make moisture-density determinations many times daily with a DENS-O-METER.

GET FULL INFORMATION FROM
EXCLUSIVE SALES AGENTS

Charles R. Watts Co.

4121 Sixth Avenue Northwest
Seattle 7, Washington

... for more details, write No. 83 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

Reservoir to be named for Major John Powell

THE 186-mi.-long reservoir to be created on the Colorado River by construction of Glen Canyon Dam will be known as Lake Powell, in honor of the noted explorer-geologist, Major John Wesley Powell. The name for the lake has been approved by the Board on Geographic Names on the recommendation of the Bureau of Reclamation, which is directing construction of Glen Canyon Dam. The recommendation was concurred in by the National Park Service.

The reservoir in northern Arizona and southern Utah will be administered for recreation and public use by the National Park Service and will be known as the Glen Canyon National Recreation Area. The historic Glen Canyon was given its name in 1869 by Major Powell.

Secretary Seaton said the naming of the lake in honor of Major Powell is most appropriate. Major Powell led two expeditions down the Green and Colorado rivers in 1869 and 1871-72, making the first explorations and surveys of the great river systems.

Utah makes plans to stretch its highway dollars

THE Utah State Road Commission has adopted a dollar-stretching program for the Department during the present restrictive period on the financing of the Interstate System. The plan is designed to secure the greatest number of usable miles of Interstate highway for each dollar that can be expended.

The objective is to be obtained in three ways: (1) Whenever possible Interstate highways will be built to required AASHO standards as to basic construction, with two lanes completed at first where they are adequate to handle traffic, and the full divided highway brought up to standards at a later date; (2) In the programming of Interstate funds, priority will be given to building a continuous freeway from Ogden to Provo which represents the area where traffic in Utah has the greatest density; (3) Sections of the Interstate in other areas of Utah will be constructed where traffic needs are the greatest and where expensive repairs to existing roads would have to be undertaken if new highway work was not instituted.

Montana to award contracts to speed 1960 highway work

BREAKING its usual precedent the State Highway Commission of Montana is planning to open bids on some highway projects during this month and February. The purpose of this unusual action is to speed the start of highway construction at the opening of the 1960 season. Normally, Montana does not try to call for bids during the winter, because of the difficulties which contractors experience in visiting job sites and preparing estimates.

Because of the interruption in highway letting, only about \$20,000,000 of highway projects were awarded during 1959. The outlook for the 1960 program includes a tentative lineup which will increase this volume of work.

C. of E. changes rules

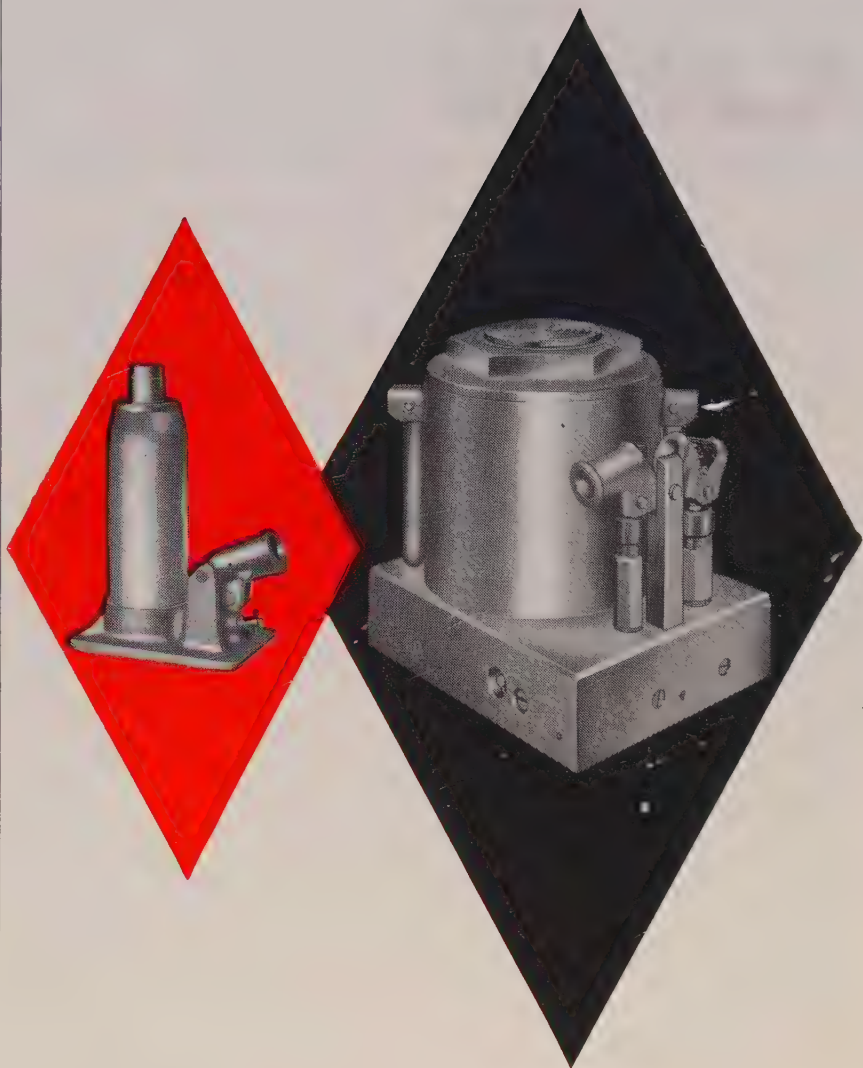
(Continued from page 164)

superintendence was made effective immediately by a recent directive from the Office, Chief of Engineers in Washington, D. C.

"Where additional superintendence was in effect," General MacDonnell said, "The Army Engineers' nation-wide experience has demonstrated a monetary savings in the construction cost of large, complex jobs. We realize it requires additional contract expense, but possible savings far exceed that cost."

The general pointed out that some jobs, such as the construction of levees, can run up to \$5,000,000, and, having none of the work subcontracted, not require additional contractor supervision. On the other hand a \$1,000,000 job, which has over 50% of the work under subcontract, can be of such complexity that one superintendent cannot be in all places at one time. "Under such conditions the Army Engineer contracting officer will determine contractor superintendence requirements most beneficial to the Federal Government. Where it is determined that the size and/or complexity of a job will not require additional contractor superintendence, the *Special Condition* paragraph will not appear in the Invitation to Bid."

General MacDonnell said Army District Engineers in Los Angeles, Sacramento, and San Francisco have been informed of these requirements and are now implementing them in their bid and contract documents.



TWELVE EASY WAYS TO LIFT FROM **3 TO 100 TONS**—USE **DUFF-NORTON HYDRAULIC JACKS**

Designed for ease of operation this rugged, dependable line of Duff-Norton hydraulic jacks gives you rapid rise with minimum effort. Twelve models in 10 different capacities ranging from 3 to 100 tons meet the lifting requirements of all types of industry.

Duff-Norton Hy-Power Hydraulic Jacks are stocked by your distributor. For quick delivery call him the next time you need a jack, or write for a copy of Bulletin AD-16A to obtain complete details and specifications.

Sales Office and Warehouse: 1016 Howard St., San Francisco, Calif.

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Ratchet • Screw

Hydraulic • Worm Gear



COFFING HOISTS

Ratchet Lever

Hand Chain • Electric

... for more details, write No. 84 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

HAWAII Report

By ALAN GOODFADER, Honolulu

RECORDS IN SIGHT—Hawaii's economic boom—with the construction industry one of its main props—ought to reach record levels this year before being mildly affected by the Mainland steel strike. That's the latest word from James H. Shoemaker, business research director for the Bank of Hawaii. He notes that total business activity on Hawaii's main island of Oahu amounted to \$144,000,000 during September, an increase of 10% over September 1958. Tourist expenditures here during the first half of the year were \$53,000,000, an increase of 39.5%—and more tourists came through in August than in all of any previous year. Construction, says Shoemaker, is one of the brightest of Hawaii's economic bright spots. Total construction completed through the first eight months of the year was valued at \$139,800,000, an increase of 29.4% over the total in the same period

last year. Construction bid openings are down 14% through September, but the drop occurred during the first half of the year. Third quarter openings were 13% above the same period in 1958. Shoemaker says the steel strike may affect construction and tourist trade here early in 1960 because of the usual lag of major Mainland economic change effects on Hawaii. Island stockpiles of fabricated steel appear to be quite adequate for this year, but shortage of specific types of steel components may show up in the first quarter of 1960, Shoemaker says.

BANK HAS FAITH—Bank of Hawaii's chief competitor, the Bishop National Bank, also is showing signs that it believes in new estimates of the boom. Bishop National recently announced its new building down-town will be 18 stories high instead of the previ-

ously planned 10 stories. Construction is to start in April and take a year. Construction costs is estimated at between \$3,000,000 and \$4,000,000.

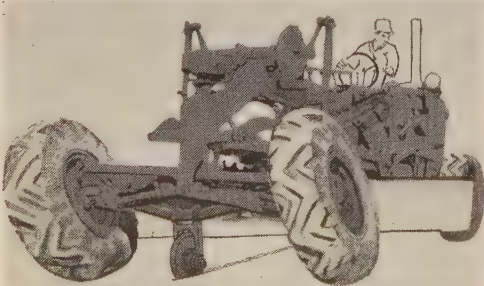
COMMERCIAL PROJECTS—Other commercial construction projects announced recently include a \$1,200,000 11-story professional and office building, a \$750,000 waterfront industrial development, a \$363,000 shopping center in rural Oahu, a \$1,000,000 bowling alley and commercial building near the Pearl Harbor Naval Base, and a \$2,000,000 model Japanese tourist and entertainment center in down-town Honolulu.

TWO INDICATORS—Two indicators have been given recently that the Aloha State's construction industry is still going big. The General Contractors Association of Hawaii reports construction worth an estimated \$12,900,000 started in Hawaii during October, an increase of some \$200,000 over October 1958. Government projects accounted for \$7,800,000 of this, compared to almost \$9,400,000 last October. Almost \$4,000,000 of the rest of the

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WESTERN CONSTRUCTION—January 1960

construction was for new dwellings. The second indicator was an announcement by the Honolulu City Building Department that building permits for more than \$100,000,000 of construction have been granted during the first 10 months of the year. The total stands at \$102,857,342 compared with \$87,000,000 for the same period last year. Military construction is not included.

HOTELS SPROUT—As noted before, Hawaii's tourist boom has been one of the factors pushing construction here. Haas & Haynie, contractor for the Sheraton Hotel chain, said recently that the chain will do \$14,000,000 worth of expansion in Waikiki, an increase of \$4,000,000 over what was originally planned; the work will take three years. Tentative plans also have been announced for a \$7,000,000 resort development at Makaha in Oahu. Portland, Ore. developers are planning to erect two 6-story cooperative apartment buildings and a 27-story apartment-hotel. Also planned are a heliport and a chapel seating 700. Work is tentatively scheduled to start within a year, according to developers James Swindle and Don Ramey.

CITY PLANS—Honolulu city officials plan to start two construction projects valued at a total of \$6,500,000 early in 1960. City Building Superintendent Ralph S. Inouye said bids will be opened in January for the City's \$1,500,000 jail in Halawa Valley. The other project slated to start soon is the projected \$5,000,000 Honolulu War Memorial Auditorium. Grading and improvement of the auditorium site is to start in March or April. Completion of the building seating about 11,000 is expected around December 1961.

COLLEGE BUILDS—The Church College of Hawaii, newly opened here by the Church of Jesus Christ of Latter-day Saints, plans to spend \$2,000,000 to build four new dormitories at Laie in rural Oahu. Joseph E. Wilson, who is planning the facilities, expects work to start on two of the dorms in February. All of them are to be finished in the spring of 1961, with capacity of 704 students in about 134,736 sq. ft. of enclosed space.

NEW ENGINEERING FIRM — Franklin Sunn, former head of the Honolulu Bureau of Plans, is president of a newly formed engineering

firm, Sunn, Low, Tom & Hara, Inc. Engineer James S. Hara is treasurer.

NEW JOB RUMORED—Tim Ho, Hawaii state superintendent of public works is reported to be in line for the job of heading Hawaii State's new Department of Transportation, which will be formed under State reorganization plans. The department eventually will comprise the present Hawaii Aeronautics Commission, Board of Highway Commissioners and Highway Department. It is one of 18

major state departments formed under a reorganization plan recently approved by Hawaii's first State Legislature.

NAVY AWARDS—The U. S. Navy has announced the awarding of two contracts to Honolulu firms. E. E. Black was awarded a \$356,500 contract for bacteriological and chemical protection of piping and electrical connections for wells at Kunia, Oahu. D. R. Kincaid, Ltd., received a \$72,200 contract for replacement of joint seal material in a concrete apron at the Ford Island Naval Air Station.

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ALASKA Newsletter

By CLIFFORD S. CERNICK, Fairbanks

THE GOLDEN YEAR — Every source I've contacted for predictions on the scope of the 1960 construction year has, so far, given me the same answer: It will be, truly, a "golden year for the construction industry." And it will probably be the same for the construction worker. Bill Hibberd, manager of the Alaska Chapter, Associated General Contractors, expressed it to me this way the other day: "In past years, most of us in the construction industry did everything possible to keep people from rushing to Alaska to get jobs. The situation in 1960 probably will be vastly different from any we've encountered for several years. For that reason, though I'm not going to encourage anybody to come to Alaska seeking work—I'm not going to discourage them, either." I asked, "Would you say, Bill, that there's a possibility that, for the first time, a labor shortage might develop in Alaska at the peak of the season?" "There certainly is a possibility that might happen," he said. The construction employment outlook will become a lot clearer within the next few months, of course, and this column will keep you posted on all developments.

THE LION'S SHARE—The Fairbanks area will get the lion's share of the giant 1960 military construction budget. It is estimated that more than \$30 million in construction is scheduled for the Fairbanks area this year. As of this writing, the U. S. Army Engineer District,

Alaska, was tentatively scheduled to consider bids on 51 Air Force projects at an estimated total of more than \$30 million and five army projects costing more than \$3 million. Work at Clear Air Force Station will again be in the "big item" for 1960, with work to continue on various buildings, including the composite building, fire station and vehicle storage. Some of the Air Force work is located at large bases such as Ladd, Eielson and Elmendorf, but most of it is located at widely-scattered, much smaller locations throughout Alaska. For example, communication facilities being constructed in connection with the Ballistic Missile Early Warning System account for 21 of the 51 Air Force projects, each located at a different site.

BIG ROAD PROGRAM—One of the biggest needs in the 49th state right now is new roads. In 1960, a comprehensive statewide road construction program will be launched. In the Fairbanks area alone, about \$13 million will be spent on new roads and road improvements and extensions. Meanwhile, surveys are being made for a number of future routes—and the tempo of road building in road-starved Alaska will probably remain increased for years to come.

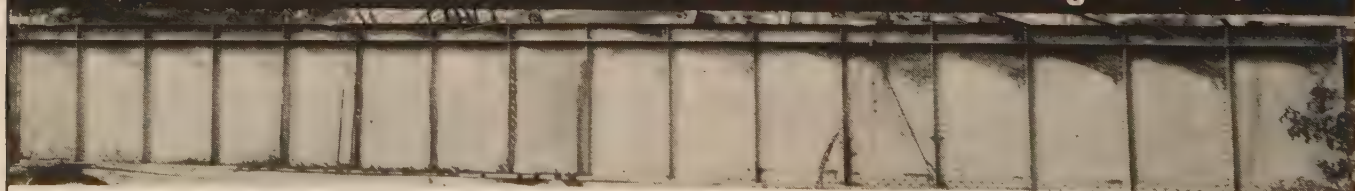
HAWAII-ALASKA COMMUTER—During the recent Alaska Chapter, AGC annual meeting in Anchorage, I chatted with Lloyd Martin, head of the prominent Alaska

construction firm of Reed & Martin. I was very much interested in the plan Martin had worked out for carrying out a year-around construction operation despite Alaska's short construction season. "We are part of a joint-venture contracting firm in the State of Hawaii," Martin said. "At the end of the construction season in Alaska we transfer some of our employees to the Hawaii job. It's working out fine." The day I talked to Martin, he had just been named president of the Alaska Chapter, AGC for the second time. It was 20 below zero outside. A few hours later, Martin boarded a plane at Fairbanks International Airport. He was enroute to Hawaii. For the strictly "local" Alaska contractor, the Hawaii-Alaska plan of operation certainly bears exploring. So far as I know, Martin is the first—and only — Alaskan firm to work this splendid arrangement out.

NEW BOARD MEMBERS—Two new members have been added to the board of the Alaska Chapter, AGC. Al Swalling of Swalling Construction Co. in Anchorage and G. W. Nourse of Morrison-Knudsen Co., Inc. were added to the board. Other members of the eight-man board include Harold E. Gall (vice president), Lloyd Burgess (secretary-treasurer), D. L. Cheney, P. D. Koon and W. R. (Johnny) Johnston.

HONORS CONTRACTORS—Bill Hibberd, AGC, was invited to be guest speaker at the Fairbanks Chamber of Commerce meeting during the recent AGC annual meeting here. Hibberd paid sincere tribute to America's contractors in a talk that was extremely well-received by construction-minded

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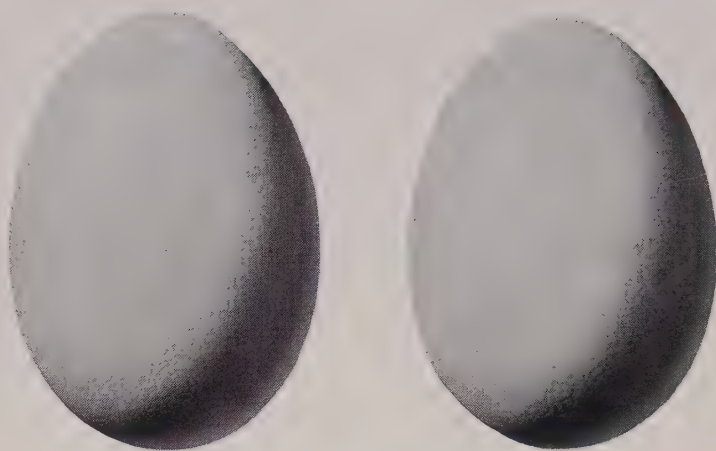
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WESTERN CONSTRUCTION—January 1960

Fairbanks businessmen. He pointed out that it is the contractor "who leads the parade in expansion." Hibberd told Chamber members that contracting has been and is a high risk business bedevilled by problems, many of them beyond the control of the contractor. Such problems include weather conditions, the increase in price of materials, delay in deliveries, labor disputes, errors in scheduling and failure of sub-contractors to do their part. Against such odds, Hibberd stated, the contractor must match his ability to estimate accurately cost of materials, labor, time, financing and other costs. He must select a good superintendent and other personnel. He must be able to meet the unexpected, be tough or diplomatic, wisely use his skill and knowledge, keep his integrity, sincerity and shoulder heavy responsibility. It has been many a moon since I've heard a finer tribute paid to the contractor, who, after all, is deserving of commendation—something he seldom gets. The contractors I've met have all been outstanding men, most of them tough as nails, hard workers and blessed, for the most part, with a heart of gold.

A BLUE NOTE—One of the problems which Alaska contractors must contend with—a sudden increase in shipping costs—seems to be in the cards for 1960. Steamship firms hauling cargo to Alaska have asked for a 10% increase in rates. The office of Gov. William A. Egan is giving the requested increase careful study at this writing and chambers of commerce throughout the state may make a formal protest. If the shipping firms are successful in obtaining the rate boost, the cost of construction in Alaska will take a corresponding jump.

30 YEARS OF SERVICE—Ernest W. Burke, a project engineer on the multi-million dollar Ballistic Missile Early Warning Station at Clear was honored recently by the U. S. Army Engineer District, Alaska, upon the completion of 30 years as an engineer on construction projects. For the past five years, Burke has been employed by the District on Alaska defense construction jobs. Before coming to Alaska, he worked on hydroelectric dam construction projects for the Bureau of Reclamation for 25 years. Dams he worked on include Coolidge Dam, Hoover Dam, Marshall Ford Dam, Davis Dam and Anderson Ranch Dam."



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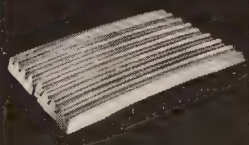
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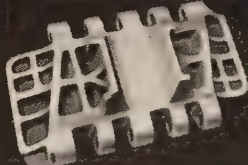
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Low bids and contract awards

ARIZONA

Rocky Mountain Construction Co. of Missoula, Mont., submitted a low bid of \$1,834,673 for grading and surfacing on 12 mi. on the Kitt Peak Observatory road in the Papago Indian Reservation in Pima County. **Tiffany Construction Co.** of Phoenix submitted a low bid of \$346,452 for 6.7 mi. of construction work on the Casa Grande-Picacho highway, south-east of Casa Grande on Route 84 in Pinal County. A low bid of \$163,617 was submitted by **Mardian Construction Co.** of Phoenix for construction work on the Coolidge-Mesa highway. The work consists of grading, draining and surfacing and construction of 4 bridges on State Route 87, north of Coolidge in Pinal County. **Tanner Brothers Contracting Co.** of Phoenix submitted a low bid of \$147,702 for grading, surfacing and draining on the Yuma-Parker highway in Yuma County.

CALIFORNIA

E. L. Yeager Co., E. L. Yeager Construction Co., Inc. and Lowe & Watson of Riverside received a \$5,158,085 contract for grading, surfacing, and construction of 14 structures to provide 9.7 mi. of 4-lane freeway, by-passing Barstow, in San Bernardino County. A \$3,478,202 contract was received by **B. J. Ukropina, T. P. Polich, Steve Kral and John R. Ukropina** of San Gabriel for 2 mi. of grading, paving and structures to provide 8-lane freeway on U. S. 6-99 in city and county of Los Angeles. **Griffith Co.** of Los Angeles received a \$2,744,478 contract for grading, paving, and traffic separation bridges to construct 2.7 mi. of 6-lane divided freeway on U. S. Highway 80, in city of El Cajon, San Diego County. **R. A. Heintz Construction Co.** of Portland, Ore., received a \$2,181,323 contract for construction of Prosser Creek Dam in northeast California, a unit of the California-Nevada Washoe Project. **Gibbons & Reed Co.** of Salt Lake City, Utah, received a \$1,332,900 contract to construct 2.5 mi. of 4-lane freeway, a portion of 2- and 4-lane highway and construction of a new 4-lane 184-ft. bridge over the Shasta River northwest of Weed in Siskiyou County. **Baun Construction Co.** of

Fresno received a \$511,180 contract for grading and surfacing to reconstruct and widen 6 mi. of Federal Aid county road. Included in the project is construction of bridges over the San Joaquin and Kings River main and outside canals. A low bid of \$170,818 was submitted by **Baun Construction Co.** for grading and surfacing on 3.8 mi. of 2-lane freeway in Maxwell and Colusa, Colusa County. A \$490,300 contract was received by **Lee Stephens** of Stockton for 2.1 mi. of grading, surfacing, and construction of a bridge over the Tuolumne River, and a bridge over the Modesto Irrigation District Lateral Number 1, Stanislaus County. **E. L. Yeager and Lowe & Watson** of Riverside submitted a low bid of \$412,825 for 3.6 mi. of grading, surfacing and related work in city and county of Riverside. **Rice Brothers, Inc.** of Marysville received a \$367,456 contract for 9 mi. of grading and surfacing near south city limit of El Centro in Imperial County. A low bid of \$399,691 was submitted by **A-I Paving Co.**, Irwindale, for 1.9 mi. of grading and surfacing in City of Industry, Los Angeles County. **Boddum Construction Co., Inc.** of Long Beach submitted a low bid of \$343,558 for 2.3 mi. of grading and surfacing between Glendora and San Dimas on Arrow Highway, Los Angeles County. A \$317,432 contract was received by **Kringlen Construction & Equipment Co.** of Temple City for construction of access ramps and widening of ½ mi. of the Ventura Freeway in city and county of Los Angeles. **Matich Constructors** of Colton received a \$302,042 contract for grading and surfacing to construct 1.7 mi. of 4-lane highway southeast of Colton in San Bernardino County. **M. J. Ruddy & Son**, Modesto, submitted a low bid of \$300,871 for 7.6 mi. of grading and surfacing on Mercy Springs road, between Los Banos and north of Mercy Springs in Merced County. **Edward Keeble Construction Co.**, San Jose, received a \$227,171 contract for grading and surfacing to extend FAS County Road 1270 for 1.3 mi., west of Watsonville in Santa Cruz County. **Fredrickson & Watson Construction Co.** of Oakland submitted a low bid of \$198,750 for 1.6 mi. of grading and surfacing west of Santa Barbara in Santa Barbara County. **California Asphalt Co.** of Colton received a

\$180,096 contract for construction of 2.3 mi. of 4-lane divided highway near the south limits of Rialto in San Bernardino County. **Souza & Wright Construction Co.**, Yuba City, submitted a low bid of \$176,382 for reconstruction and widening 4.2 mi. of FAS County Road 1251, in Sierra County.

COLORADO

Hopkins Construction Co., Denver, submitted a low bid of \$2,667,201 for schedules 1, 2 and 3, construction of access roads, NORAD Combat Operations Center at Colorado Springs. **A. S. Horner Construction Co., Inc.**, of Denver, submitted a low bid of \$738,233 for schedules 1, 2 and 3, earthwork and structures, southside canal, Collbran Project near Collbran. **H. E. Lowdermilk** of Englewood submitted a low bid of \$859,560 for 2.1 mi. of grading, surfacing and structures in Turkey Creek Canyon, Jefferson County. A low bid of \$324,078 was submitted by **Gardner Construction Co.**, Littleton, for grading, surfacing and structures on 3.2 mi. of highway west of Saguache in Saguache County. A low bid of \$123,920 was submitted by **Pioneer Construction Co.** of Pueblo for 9.9 mi. of grading and surfacing from Glenwood Springs easterly in Garfield County. **Smith & Lucas** of Colorado Springs submitted a low bid of \$107,151 for grading and surfacing on 4.1 mi. between Crawford and Sapinero in Montrose County.

IDAHO

Duffy Reed Construction Co. of Twin Falls submitted a low bid of \$697,768 for grading, surfacing and drainage structures and construction of 2 bridges in Twin Falls and Jerome counties. **Aslett Construction Co.** also of Twin Falls submitted a low bid of \$260,946 for grading, surfacing, structures and related work in Franklin County. A low bid of \$612,589 was submitted by **Grant Construction Co.** of 'Coeur d'Alene for grading and surfacing in Lewis County. **T & S Construction Co.** of Twin Falls submitted a low bid of \$427,509 for schedules 1 and 2, roadway, drainage structures, surfacing and concrete bridge in Payette County. **Morrison-Knudsen Co., Inc.** of Boise submitted a low bid of \$638,177 for grading, surfacing, drainage structures and concrete underpasses in Washington

County. **C. H. Elle Construction Co.**, Pocatello, submitted a low bid of \$379,437 for grading and surfacing on 4.6 mi. of the Elk City Highway in Idaho County. **MacGregor Triangle Co.**, Boise, submitted a low bid of \$479,137 for 8 mi. of grading and construction of concrete bridge on the Cascade-Warm Springs highway in Valley County. **Teller Construction Co.** of Idaho Falls submitted a low bid of \$91,319 to construct a Warm Service Area and other work at the Aircraft Nuclear Propulsion Area of the National Reactor Testing Station.

MONTANA

Long Construction Co., Inc. of Billings received a \$1,556,610 contract for 6.4 mi. of grading and surfacing and construction of dual concrete overpass and a frontage road, Moosemain-Billings road in Yellowstone County. A \$730,829 contract was received by **Baltrusch Construction Co.** of Havre for 4.7 mi. of grading and surfacing and construction of 1 overpass and 1 highway interchange on the Sunburst-North road in Toole County. **W. R. Cahoon Construction Co.**, Pocatello, Idaho, received a \$642,857 contract for dual concrete and steel structures over the Yellowstone River on the Livingston East and West Highway in Park County. **Dillsworth Construction Co.** and **Maronick Construction Co.** of Helena received a \$413,599 contract for 10.5 mi. of grading, surfacing and draining on the Wyoming Line-Belfry road in Carbon County. **United Paving Co., Inc.** of Spokane, received a \$363,855 contract for 2.2 mi. of grading, surfacing and draining on portions of Highway U. S. 58, 257 and 270 in Flathead County. **Gibson Construction Co.**, Belgrade, received a \$253,960 contract for 7.9 mi. of grading, surfacing and related work on the Big Sandy-Rudyard road in Chouteau County. A \$116,772 contract was received by **Billings Construction Co.**, Billings, for crushing and stockpiling.

NEVADA

Lembke Company of Las Vegas received a \$1,054,574 contract for construction of Washoe County Jail, at Reno.

NEW MEXICO

Brown Construction Co., Albuquerque, submitted two low bids for highway work in Santa Fe and

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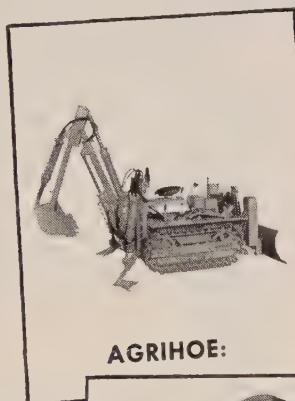


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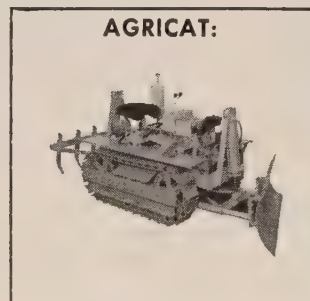
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Socorro counties: \$848,509 low bid for grading, surfacing and structures on 8.1 mi. of the Tesuque-Pojoaque highway in Santa Fe County, and \$205,951 for 8.4 mi. of grading and surfacing on the Lemitar-Polvadera frontage roads in Socorro County. **O. D. Cowart** submitted two low bids for highway work in Lea and Sandoval counties: \$442,451 for 4 mi. of grading, surfacing and related work, Tatum Urban, Lea County; and \$131,297 for 2.4 mi. of grading and surfacing on State Highway 290, Vallecitos-North in Sandoval County. **D. D. Skousen** of Albuquerque submitted a low bid of \$282,561 for grading and surfacing on 3.2 mi. of the Gallup-Shiprock highway, U. S. 666 in McKinley County.

OREGON

Clarence Braden Construction Co. of Walla Walla, Wash. received a \$399,936 contract for grading and oiling on the Haines-Anthony highway in Baker County. A low bid of \$250,476 was submitted by **Cherf Bros., Inc.** and **SandKay Contractors, Inc.** of Ephrata, Wash. for earthwork and

structures for canal, laterals and drains, sump 2, contract unit 1, Tule Lake Division of Klamath Project, Oregon-California. **Hamilton & Thoms, Inc.**, Eugene, received a \$337,092 contract for construction of 10 structures at five sites, McKenzie River-Willamette River section on the Pacific Highway in Lane County. **Lord Bros. Contractors** of Portland received a \$222,902 contract for construction of 2 bridges on the Corvallis section of the Corvallis-Newport highway in Benton County. **Durbin Bros.** of Eugene received a \$157,870 contract for structure, grading and oiling on the Westfall-Harper road in Malheur County. **Peter Kiewit Sons' Co.**, Omaha, Neb., received a \$2,138,285 contract for construction of 2 bridges and related work on the Pacific and McKenzie highway in Lane County.

UTAH

Johnson Construction Co., Salt Lake City, submitted a low bid of \$1,387,000 for construction of Judge Memorial High School in Salt Lake City. **L. T. Johnson Construction Co.**, Ogden, submitted a low bid

of \$94,702 for grading, surfacing and structure in West Bountiful, Davis County. **Theo Wood** of Salt Lake City received a \$174,267 contract for construction of Forest Highway, Woodruff and Huntsville counties. A \$136,769 contract was received by **W. W. & W. B. Gardner** of Salt Lake City for grading and surfacing in Salt Lake County. A \$132,742 contract was received by **Wheelwright Construction Co.**, Ogden, for grading, surfacing and one concrete and steel structure in Washington County.

WASHINGTON

MacDonald Construction Co., St. Louis, Mo., **The Scott Co.**, Oakland, Calif., and associates received a \$31,600,722 contract for constructing three Titan missile launching bases in central Washington. Associates include: **Morrison-Knudsen Co., Inc.**, Boise, Idaho, **C. H. Leavell**, El Paso, Tex., **Paul Hartman**, Oakland, Calif., and the **C. S. Young Co.** of San Diego, Calif. The three bases, near Ruff, Warden and Beverly will be serviced from Larson Air Force Base near Moses Lake. **Henry Hagman**, Spokane, re-

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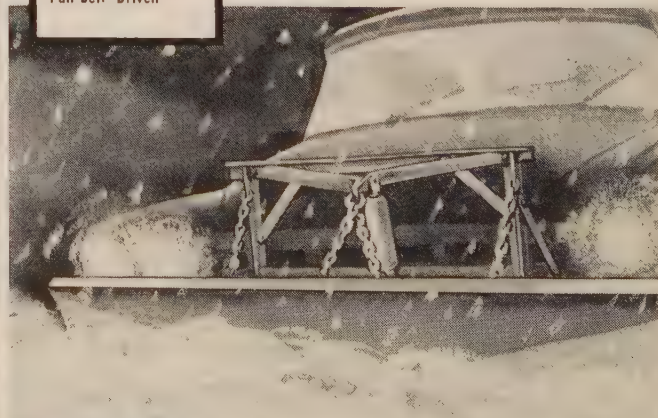
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WESTERN CONSTRUCTION—January 1960

ceived a \$278,652 contract for draining, grading, surfacing and bridge on 1.1 mi. on the Kettle River bridge and approaches in Ferry County. **C. E. Oneal, Inc.**, Ellensburg, received a \$287,484 contract for 2.1 mi. of grading, draining and paving from Twin Orchard to McLean Orchard, along the Columbia River in Douglas County. **Goodfellow Bros., Inc.**, Wenatchee, received a \$124,425 contract for 1.9 mi. of grading and surfacing northeast of the Wenatchee and Columbia River junction, from Rocky Reach to Orondo in Douglas County.

WYOMING

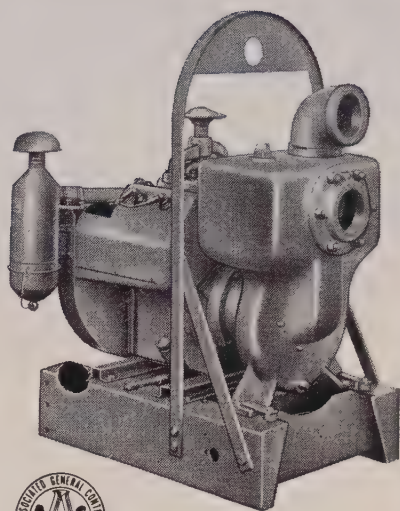
Purvis Construction Co. of Yardley, Wash., submitted a low bid of \$1,634,762 for construction of Sundance TM Site 201, Operation Area, in city of Sundance. **Northwestern Engineering Co.** of Denver, Colo., received a \$1,445,983 contract for grading, surfacing and miscellaneous work on 10.4 mi. of 4-lane divided highway, Evanston-Lyman road on U. S. Highway No. 189, west in Uinta County. A \$414,226 contract was received by **Husman Bros., Inc.** of Sheridan for construction of 1 interchange structure, 2 separation structures, and a machinery pass structure and miscellaneous work on 3.6 mi. of 4-lane divided highway on the Sheridan-Marginal road in Sheridan County. **Leon K. Suhm, Inc.** of Denver, Colo. received a \$135,545 contract for construction of 3 structures and miscellaneous work on 2.5 mi. of 4-lane divided urban highway near Mountain View in Natrona County. **E. Peterson Construction Co.**, Casper, received a \$123,324 contract for construction of 2 bridges over Muddy Creek, and miscellaneous work on the Baggs-Creston road in Carbon County.

Arizona leads in highways

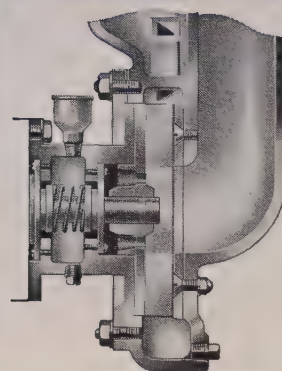
ARIZONA, with a total of \$30,195,000, led the eight Mountain States in highway construction contracts awarded during the first eight months of 1959. This information is contained in a report issued by the Bureau of Public Roads covering the period from January 1 through August 31.

The state's total, averaging almost \$4,000,000 per month, embraced 280 mi. of highway and included contracts on Interstate, Primary, Secondary and Urban roads.

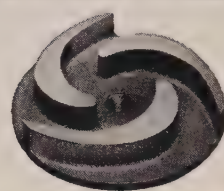
ESSICK SELF-PRIMING PUMPS



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ESSICK DUAL SEAL



ESSICK NO-CLOG IMPELLER

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ENGINEERS and CONTRACTORS

Paul A. Elsner of Swinerton & Walberg Co., San Francisco, was elected president of the Northern and Central California Chapter, The Associated General Contractors of America, at a directors' meeting in December. He will lead the 485-member association during 1960. **John Delphia**, contractor of Patterson, was elected vice president and chairman of the highway division, while **J. P. Silvestri** of Chas. L. Harney, Inc., San Francisco, was chosen vice president and chairman of the heavy engineering division. **Budd O. Stevenson**, Stevenson-Pacific, Inc., Redwood City, is the new vice president and chairman of the building division. Elected to serve as treasurer for the coming year is **M. L. Simpson** of Ball & Simpson, Berkeley.

* * *

Appointment of **Warren H. Johnson** to the San Francisco staff of the Portland Cement Association is announced by **Warren G. Burres**, district engineer for the Los Angeles and San Francisco offices. Johnson, a civil engineer, transferred to the West Coast from PCA's general offices in Chicago where he had been for the past three and a half years. His new position is that of paving and general field engineer. The Portland Cement Association began activities in Northern California a year ago when it opened an office at 235 Montgomery St., San Francisco.

* * *

When **O. R. Dinsmore**, assistant director of the Washington State Highway Department, retired recently, upwards of 450 friends and business associates gathered at Olympia to pay tribute to him. Guests came to the dinner from Idaho and Oregon as well as from Washington. Ray Dinsmore started his career with the state highways in 1922 as a draftsman in Olympia, and had been assistant director since 1949.

The Department's new assistant director, **R. H. "Harold" Kenyon** moved up from the Plans and Contracts Division to fill Dinsmore's

former post. Kenyon joined the Department in the Spokane District, and later, in 1935, he transferred to Seattle, where he served for eight years before moving to the district office in Yakima. He joined the headquarters office in 1945 and served as head of the Division of Plans and Contracts until his present promotion.

* * *

On the retirement of **William Smith** as chief engineer for the Nevada Division of the Bureau of Public Roads, **Forest Hall**, district engineer-assistant division engineer, succeeded him. Smith had devoted 33 years of service to BPR, and the new division engineer has 32 years of federal service.

* * *

Lloyd W. Martin of Reed & Martin, Fairbanks, Alaska, has been re-elected president of the Alaska Chapter of Associated General Contractors. Assisting him will be **Harold E. Gall** of Patti-MacDonald Construction Co., serving as vice president, and **Lloyd A. Burgess** of Burgess Construction Co., as secretary.

* * *

Harold Leedom is the new city engineer of Coos Bay, Ore. He had been assistant city engineer. He succeeds **J. Walter Baarham** who left to become city manager at Coal- inga, Calif.

* * *

Alexander B. McEachern, 50, died in a plane crash near Kalama, Wash., on Nov. 28. President of the General Construction Co., McEachern was one of the best known men in the construction field in the Northwest, and an active member of Associated General Contractors of America.

* * *

Jerold B. Van Faasen, Seattle, was recently transferred to take charge of a \$30,000,000 construction program for the Army Engineers at Glasgow Air Force Base, Mont. He had been resident engi-

neer in the Seattle resident office, and will have a similar title at Glasgow.

* * *

Announcement is made of the appointment of **Herbert C. Ball** to the position of general manager of **Twaits-Wittenberg Co.**, Constructors and Engineers, Los Angeles. A graduate civil engineer, Ball first joined **Twais-Wittenberg** in 1934 when he was employed as a carpenter. Later as construction superintendent he was in charge of many large Western projects including a \$26,000,000 military installation at Camp White, Medford, Ore.

CALENDAR

Jan. 18-20—American Road Builders Association, annual convention, Netherlands Plaza Hotel, Cincinnati, Ohio.

Jan. 21—The Beavers, annual awards dinner, Statler Hotel, Los Angeles, Calif.

Jan. 24-28—Associated Equipment Distributors annual meeting, Conrad Hilton Hotel, Chicago, Ill.

Jan. 28-30—California Street and Highway Conference, University of California, Los Angeles, Calif.

Feb. 1-4—National Bituminous Concrete Association, annual convention, Sheraton-Cadillac Hotel, Detroit, Mich.

Feb. 4-6—Engineering and Grading Contractors Association, annual convention, Sheraton-Palace Hotel, San Francisco, Calif.

Feb. 15-19—National Sand & Gravel Association, convention and equipment exposition, Conrad Hilton Hotel, Chicago, Ill.

Mar. 1-3—School of Engineering of College of the Pacific, annual highway conference, Stockton, Calif.

Mar. 21-24—The Associated General Contractors of America, annual convention, San Francisco, Calif.

Mar. 23-25—Northwest Highway Engineering Conference, (Northwest Conference on Road Building and the Northwest Traffic Engineering Conference) Oregon State College, Corvallis, Ore.

June 19-24—Western Association of State Highway Officials, annual conference, Multnomah Hotel, Portland, Ore.



NEW FRUEHAUF Aggregate and Cement Hoppers

...haul up to a ton of extra payload!

Simplicity of operation, light weight, and reduced upkeep are the keynotes of Fruehauf's new, high-capacity aggregate and cement hoppers for the West.

In combination operation the aggregate units have a payload capacity of up to 28 tons of sand, gravel, or mixtures when a 76,800 pound gross weight is allowed. These versatile units have been standardized for production so that the interliners can be replaced with cement hopper cans when desired.

Both semis and 4-wheelers designed for hauling aggregates have a capacity of 300 cubic feet with interliners of aluminum. 40" x 50" air operated clam shell gates are electrically

controlled from the cab, or from the side of the Trailers. The load carrying truss is constructed of rugged, high-tensile steel.

Among the first users of these revolutionary Fruehauf units is the Binswanger Trucking Company, of Santa Fe Springs, contract cement haulers since 1947. Their Fruehauf Cement Hoppers, equipped with aluminum bins and fill domes, each have a 510 cubic foot capacity.

Max Binswanger, Owner, states: "These new Fruehaufs encompass many design improvements. As we have found in Fruehaufs in the past, they are strongly built and well-engineered. They are lightweight, low in cost, and I believe the finest made in this field."



FRUEHAUF TRAILER COMPANY

Western Manufacturing Plants: LOS ANGELES, VINA VISTA, and FRESNO

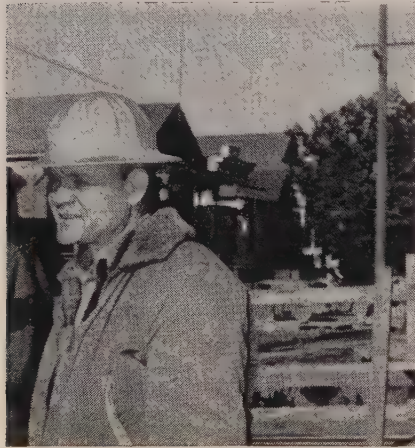
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For Forty-Six Years—
World's Largest Builder
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SUPERVISING the jobs

George Trivitt, project manager, and C. W. "Bill" Young, project engineer, have been named to head the long list of contractor personnel working on bridge construction over the west branch of the Feather River on U. S. 40 in Butte County,



Calif. Stolte, Inc. and Morrison-Knudsen Co., Inc., received the award on a low bid of \$8,738,745 and started on the job in November. This is a combination highway and railroad bridge, approximately 2,700 ft. long on structural steel truss supported principally by 3 concrete piers about 250 ft. high. According to the joint venture, job should be concluded about December 1961.

George A. Marr, superintendent for C. J. Montag & Sons, has charge of a \$386,675 highway job in Multnomah County, Ore. Work involves structures and road work on the Columbia River Highway including reconstruction of the Union Avenue bridge. Scheduled for completion next October, work here started in November.

R. H. Mortensen is superintending grading, surfacing, and construction of undercrossing in city of Portland, Ore. for Kuckenberg Construction Co., Inc. which won the award on a bid of \$315,595. Carpenter foreman is George Haas.

Wally Powell is foreman, Merrill Henderson and Andy Spooner, engineers. Under way since November, the job will be finished in August.

Thomas N. Beall, project manager, and Franklin D. Anderson, superintendent, are head men working for Arrington Construction Co., Inc. on construction of reactor building, control building, and other building erection, setting of reactor and process piping, erection of substation and yard utilities at the National Reactor Testing Station in Idaho. Other key contractor men are Dean Harris, mechanical foreman, and Orville Hendricksen, process piping superintendent. Work on this \$721,275 undertaking has been going on since November 17 last, and will continue till mid-October.

R. W. Martin, drill boat captain, with L. A. Pederson, Dale Cooley, and James Shippy, drillers, is directing work on J. A. Troxell's recent contract award for dredging sand, etc., and rock removal from navigation channel of the Columbia River between Vancouver, Wash., and Bonneville Dam, Ore. Troxell is doing the work at a cost of \$298,075. Last October the job got under way, scheduled for completion in April.

Don J. Westbrook, project superintendent for R. A. Westbrook, Inc. and Morrison-Knudsen Co., Inc., will be in charge of grading and surfacing on 4.1 mi. of road near Bridgeville, Humboldt County, Calif. This is a \$535,061 contract that will get under way in the spring. The job will be finished sometime in the fall of the year, according to report from T. J. Hopper, office manager for Westbrook.

Gordon C. Skinner is supervising a grade and drain job of about

8 mi. east of Pearce on Highway 666 in Arizona for John H. Evans & Co., contractor. Grade foreman is O.K. "Red" Bruce. Evans got the bid at \$184,513, started work in October and will be finished in February.

J. A. McCarty, superintendent, assisted by Pat Murphy, foreman, is in charge of Heiskell Construction Co.'s 5.3 mi. of seal-coating on the Sonoit-Mountain View highway in Arizona. Mechanic on the \$187,225 project is George Parsons, while J. E. Wiley is in charge of maintenance. Under way since October, the work is about finished.

Doug Fife is acting as project manager on a recent award to Fife Construction Co., Inc. for 7.4 mi. of grading and surfacing on Interstate 15 between Brigham City and Honeyville, Utah. Other key men on the \$968,507 project are Jerome Funk and Wayne Davis, superintendents, and Dick Lower and Wendell Fife, foremen. Work commenced in November and is scheduled for July completion.

John V. Leone, superintendent, is in charge of Leone Construction Co.'s \$693,641 grading job on U. S. 85-87 in Huerfano and Las Animas counties, Colo. Foremen working on this 14.4-mi. grading and surfacing project are George J. Gahm, Joe Bubnic, Harold P. Hargrove and Alex Eccher. Work has been under way since last month.

M. W. Dunsmore, H. M. Kaiser, and Jess Dockrey, grading, surfacing and asphalt superintendents respectively, will be in charge of a \$663,156 job for Summit Construction Co. near Upton, Wyo., when work is permitted following the winter months. Contract covers 6.7 mi. of grading, surfacing and related work on the Upton-Moorcroft road.

Frank C. Crilly, general superintendent, is in charge of a recent award to Western Paving Co. covering widening, grading and surfacing work in Arapahoe National Forest in Colorado. Other important men on the \$321,000 project are Bill Cummins, paving superintendent, Vern Dacus, grade fore-

DAYBROOK . . .



'Our Daybrook dump train earns \$50 A DAY EXTRA PROFIT'

VERNON J. VERPLANK, PRESIDENT, SPRING LAKE COAL & DOCK CO., SPRING LAKE, MICHIGAN

This Daybrook aluminum dump train carries a payload of 42 tons on each trip for Spring Lake Coal & Dock Company—23 tons more per trip than units formerly used. Mr. Verplank explains that the weight savings of the contractor-style body and telescopic hoist plus good axle weight distribution gives him this 23 tons extra payload—and \$50 a day extra profit. Because aluminum bodies do not need painting, Mr. Verplank estimates an additional \$300 savings each year.

These profits are typical of Daybrook Dump Body applications. Load-rated hoists matched to rugged bodies gives you bigger payloads. Careful engineering and manufacturing backed by an excellent warranty insure long equipment life, less downtime, and low maintenance. Daybrook offers a full range of equipment to fit your specific needs. There are 30 models of aluminum or steel bodies with capacities from 1½ to 27 yards in a choice of contractor, excavator, platform and rock body styles. And Daybrook has either an underbody or a telescopic hoist to team up with the body you select.

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**DAYBROOK HYDRAULIC DIVISION
BOWLING GREEN • OHIO**

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D. A. WAGNER (left), superintendent for Woodward Construction Co., with L. Vosika, foreman, are shown at the site of a \$109,979 job recently awarded. Covering a 6-mi. stretch, work consists of draining, grading, and road-mix surfacing in Lincoln County, Wyo. D. Boom is another foreman on this job, which will be ready for oil early this year.

man, Glenn Davis, crusher foreman, and Dale Showalter, equipment superintendent. Started in October, the job will probably run to July.

Max Winter, Jr., project manager, is top man for C. H. Leavell & Co., successful bidder to construct guided missile maintenance shop at the Pueblo Ordnance Depot, Pu-

eblo, Colo. A 480-calendar day project, work on the \$2,735,176 contract started in July.

* * *

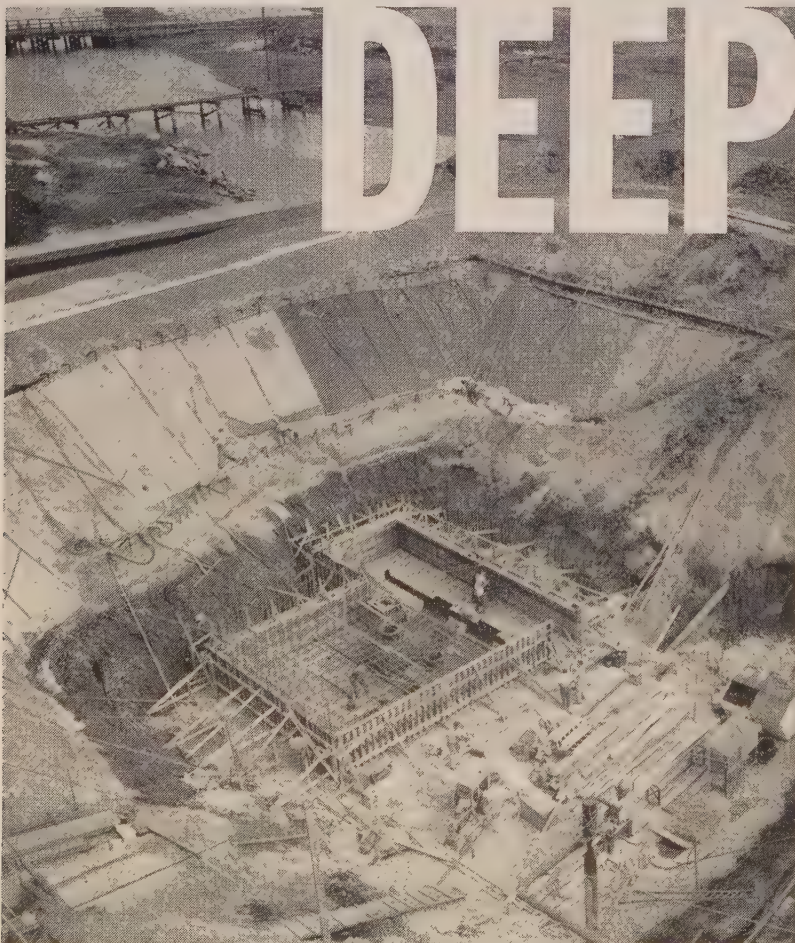
Claud Emerson, superintendent for Midland Construction Co., has charge of 5.9 mi. of grading and surfacing on the Semiloe Dam road north of Sinclair, Wyo. Foremen on the \$119,654 project are R. M. "Dick" Simmons, grading; and Oscar Shehorn, gravel and crushing. Field office manager is R. E. Lepley.

* * *

John Vineyard, project manager for Northwest Construction Co., is in charge of construction of approach for toll bridge across the Hood Canal in Kitsap County, Wash. Foremen on this \$185,920 clearing, grading and asphalt work are Glen Christiansen, grade, Dick Shuman, clearing, and Clint Shephard, equipment. October was the starting date, with May the target date.

* * *

Jim Andade is supervising Dan Caputo's bridge construction over



DEEP AND DRY

A Stang wellpoint system is predraining and stabilizing this pump station jobsite quickly, economically and efficiently. The site is clear, conditions are very workable. This is typical of Stang jobs.

JOHN W. STANG CORPORATION

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WESTERN CONSTRUCTION—January 1960

San Lorenzo Creek just north of Hayward, Alameda County, Calif. Caputo received the award on a low bid of \$303,399, got started in September, and according to **W. L. Johnson**, chief engineer and estimator, the project should be finished sometime in April.

* * *

Bob Briggs is to superintend 15.5 mi. of grading and surfacing in the Grand Mesa-Uncompahgre National Forest in Colorado for Siegrist Construction Co. Siegrist successfully bid the job at \$297,000 and hopes to commence the work about May 1, with Oct. 1 next as the target date.

NEW FILMS

Three sound-color films are available from **Caterpillar Tractor Co.** An 8-min. 16-mm movie shows the 150-hp. latest addition to the Cat motor grader line in a variety of applications. In featuring the "Cat No. 14", the company points out features new to the 30,000-lb. motor grader class: turbocharger, power brakes, oil clutch and others. "The No. 619 Tractor" is colorful motion picture showing Caterpillar's recent addition to its line of high-speed rubber-tired machines. This 10-min. 16-mm film demonstrates the capabilities of the new 225-hp. tractor with matched 18-yd. heaped scraper.

The third is a fast-moving picture introducing and illustrating a new concept in big tractor power shift transmissions. This 11-min. film covers on-the-job performance of power shift equipped Cat-built tractors in various phases of earth-moving, pinpointing the cycle time reduction possible through one-lever shifting for forward and reverse.

Those interested in viewing these motion pictures should contact their nearest Caterpillar dealer.

"The First Step in Construction", a 16-mm color and sound motion picture, has been released by **Joy Manufacturing Co.** The 15-min. film shows blast-hole drilling as the first step in removing large quantities of rock to construct highways, bridges, buildings, etc. The film shows several famous construction jobs at their beginning, and in many cases the finished project. Suitable for showing to engineering and construction groups, city,

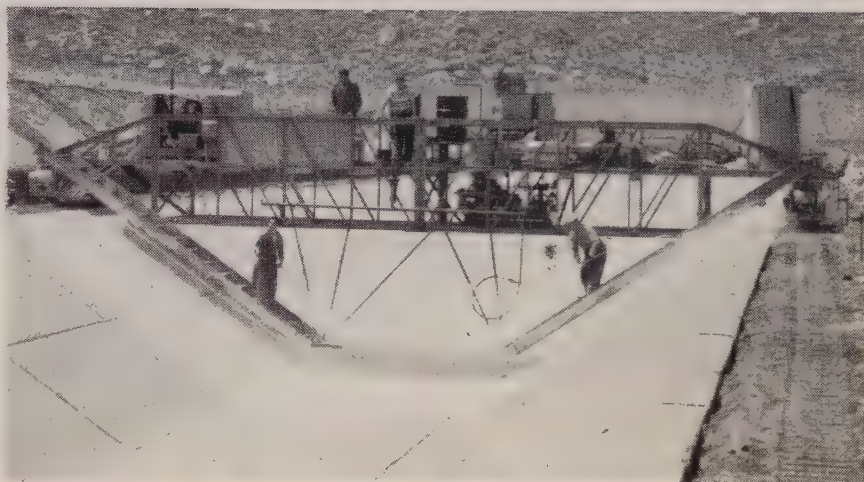
state and federal highway personnel, and student groups, the film is available free from **Joy Manufacturing Co.**, Henry W. Oliver Bldg., Pittsburgh 22, Pa.

The Euclid Division has available a 16-mm, color-sound film, "Power Plus—a matter of perspective". This 22-min. movie features the company's Big Three products: the S-18, the Twin Power TC-12 crawler tractor, and the all-wheel drive, 563-hp. TS-24 twin scraper. Direct your requests to Euclid dealers or to the sales Promotion

Department, **Euclid Division of General Motors**, Cleveland 17, Ohio.

A 10-min. film produced jointly by **Laurence Myers Scaffolding Co.** with **Tubular Structures Corp.** of America, tells the story of modern heavy-duty steel shoring in its application to commercial slab and highway bridge construction. Arrangements can be made with your nearest **WACO Scaffolding distributor** or by writing directly to **Laurence Myers Scaffolding Co.**, 61 Bluxome St., San Francisco, Calif.

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- 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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DESPITE 5,000 HOURS "Texaco Simplified Lube Plan"

says J. A. Fulkerson, land leveling contractor of Blythe, California

"This D-8 Caterpillar had run 5,700 hours when new rings were installed," Mr. Fulkerson continues. "When the engine was stripped at 11,130 hours in accordance with Texaco planned maintenance schedule, those rings were still amazingly clean, despite more than 5,000 hours' operation in a dustbowl.

"It's performance like this that has kept me a 100% Texaco customer for the past 15 years.



CLOSE INSPECTION by Mr. Fulkerson (right) and Texaco consignee G. E. Covington proves fine condition of rings and pistons of Caterpillar D-8 engine after 5,430 hours' service in conditions shown in top picture. Mr. Fulkerson has used Texaco 100% since 1944.



IN A DUSTBOWL kept rings amazingly clean"

And the Texaco Simplified Lubrication Plan makes sure that all my equipment is getting the same kind of systematic servicing that kept this D-8 running so well."

Take a tip from Mr. Fulkerson. Try a Texaco Simplified Lube Plan on your next project. Every Texaco Plan is designed to handle all major lubricating requirements of a particular job with only six lubricants or less. Low inventory like that saves manhours in storage and handling, cuts paperwork in ordering, and minimizes the chance of misapplication of lubricants.

Ask a Texaco Lubrication Engineer to help you streamline your lubrication procedure with a Texaco Simplified Lubrication Plan. Just call the nearest of the more than 2,300 Texaco Distributing Plants, or write Texaco Inc., 135 East 42nd Street, New York 17, N. Y.

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CONSTRUCTION BRIEFS

Prestressed concrete bridge constructed in five days

FRONTIER Refining Co. needed a private bridge built in a hurry to span the picturesque White River 26 miles west of Meeker, Colorado. Construction of a 105-ft. concrete bridge was completed ten days after making the first inquiry of the contractor.

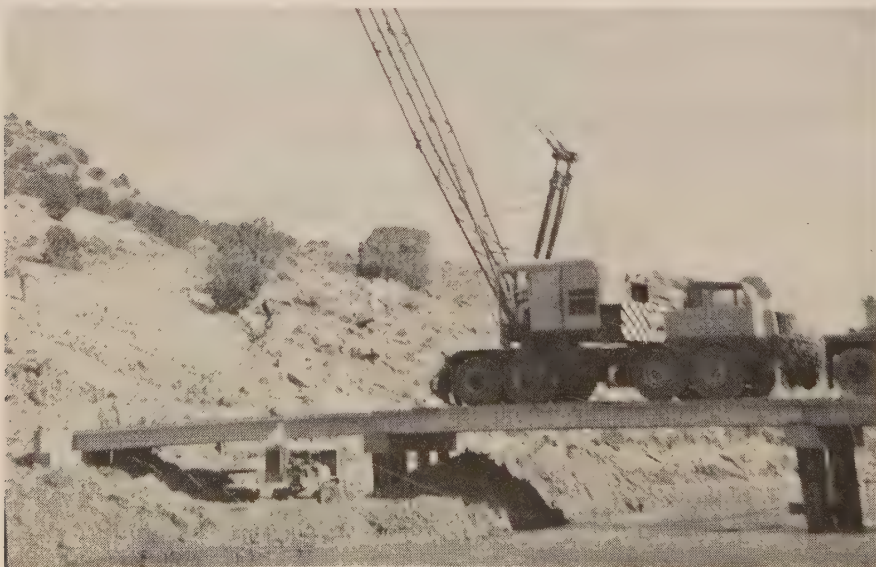
E. B. Granville, drilling and production superintendent for Frontier, obtained some general information on bridges from the Colorado State Highway Department. Then he telephoned James B. Kenney, Inc. and asked for a bid on installation of the proposed bridge so that Frontier could move in a large rotary rig to meet a drilling obligation deadline.

The same day Earl Kenney called Prestressed Concrete of Colorado, Inc. for design information on a bridge to withstand the heavy loading requirements. Plans for a prestressed concrete bridge were approved, a contract was executed, and after only five days actual construction time the bridge was completed and turned over to Frontier.

The bridge was built to the same load specifications as bridges used on major highways.

The concrete deck slabs were fabricated at Prestressed Concrete of Colorado's Denver plant. Each of the nine prestressed deck slabs measures 35 ft. in length and weighs 6½ tons. The concrete caps, abutments, and deck slabs were cast and hauled by three trucks a distance of 238 mi. from Denver to the site near Meeker. Four sets of steel pilings had been driven down to bedrock and then capped. A large crane was used in placing the deck slabs to form the sturdy 3-span bridge. During this operation the bridge safely carried the crane weighing 84,000 lb. and another 80,000-lb. load comprised of a truck loaded with the remaining deck members, all at the same time.

The construction foreman on the job for the James B. Kenney organization was Frank Skrbuna. Bill Kunkler coordinated the design work for Prestressed Concrete of Colorado, Inc.



NEW BRIDGE supports 42-ton carrier crane and 40-ton trailer load as final span is placed. Each span made up of nine prestressed girder-deck members.

"Diaper" joins big pipe sections

FIRST USE of 42-in. diameter bell and spigot vitrified clay pipe on the West Coast featured development of a new method of sealing joints, using a sailcloth "diaper" and steel strapping. The big 2,500-lb. pipe sections, largest in the U.S., are made by Gladding, McBean & Co., for installation in the ocean front area of Venice, Calif.

The D. B. S. Construction Co., in conjunction of Bob Stewart of the Hubbard Co., developed the



new method of retaining hot-pour compound in the annular space.

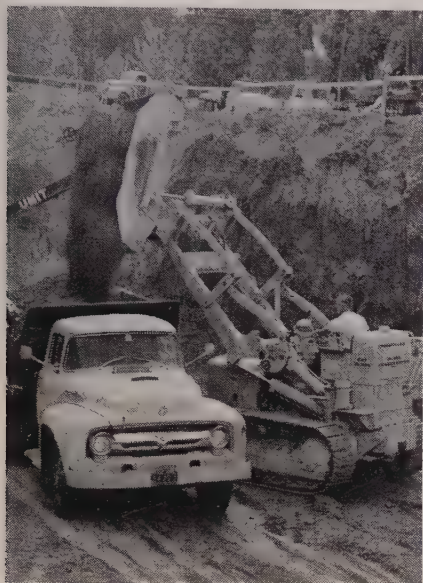
Instead of the traditional running rope they are using a piece of sail cloth about eight inches wide and long enough to go around the circumference of the pipe. A pocket is sewn on each longitudinal edge of the cloth, and steel straps are threaded through these seams. The cloth is then wrapped around the pipe with one edge going around the bell and the other edge around the adjacent spigot. The steel bands are drawn up tight with conventional strapping equipment, and a small gap is left between the ends of the cloth at the top of the pipe. A clay pouring gate is then formed in the regular manner at the opening, and the hot compound is poured in. These so-called "diapers" are then left in place and considered expendable.

This method is working satisfactorily and is considerably cheaper, as the materials are relatively inexpensive and a great deal of time is saved over the laborious task of installing asbestos running ropes on large diameter pipe. The contractor has also discovered that no air is entrained. Another advantage of this method is the tension which builds up and assists in overcoming shrinkage of the hot pour material as it cools.

... Write No. 179

Side dump bucket operating tips

APPLICATIONS particularly suitable for side dump bucket loaders include handling sand, gravel, stockpiled earth or other loose material. In addition, they perform especially well when turning space



is limited or travel distances are short enough to take advantage of the shortened maneuvering time.

Here are a few tips for getting the most out of the side dump bucket:

1. Set the automatic lift kick-out mechanism just high enough to dump effectively into the truck. This will cut time from excessive lift heights.
2. Spot the truck the same distance it takes for the hydraulic system to lift the bucket to dump height. This is usually about $1\frac{1}{2}$ times the length of the machine. With less maneuvering time, the side dump bucket can be dumped sooner. And correct travel distance will make a smoother operation.
3. Start dumping as soon as the truck body itself is reached. The machine can be stopped during the dump, spreading the load in the truck.
4. Pass as close to the truck as possible. Operators sometimes cut to the left, behind the truck, to load the bucket. This gives a better view of the truck on the return.
5. "Cock" the machine slightly toward the truck when dumping the last load or two. This throws the load to the center

and opposite side of the truck . . . giving even load distribution.

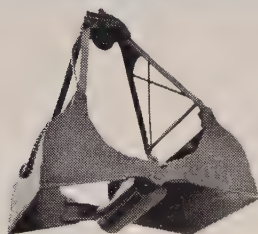
6. Save time on bucket control movements after dumping. Shift to forward direction before returning bucket from dump position. Side dump and bucket tilt controls can be operated together to bring the bucket to digging position . . . still at dumping height. By this time the truck is cleared and the bucket can be lowered, ready for digging.

Simpler control operation lowers cycle time.

7. Keep forces on the bucket directed into its supporting saddle. Avoid back dragging and any prying action that pulls the bucket away from the saddle.
8. Increase production as well as stability with a ripper. With increased capacity of the side dump bucket, a counterweight is an advantage. The ripper can loosen hard materials as well as counterbalance the machine.

McCaffrey

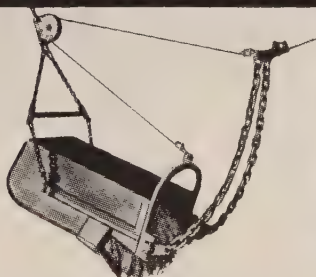
all-welded buckets are backed by over
30 years experience in bucket manufacturing



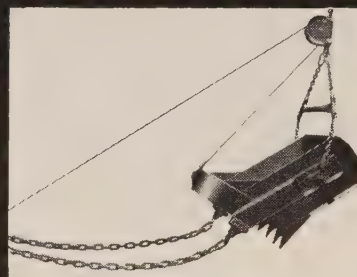
LIGHTWEIGHT CLAMSHELL, Type L, for loose sand, small gravel. **CLAMSHELL Type R**, available for rehandling work.



CLAMSHELL, Type D, for general purpose digging. Handles wide range of work.



NEW LIGHTWEIGHT DRAGLINE, Type A, up to one ton lighter in larger sizes.



MEDIUM WEIGHT DRAGLINE, Type M, balanced for easy digging and full payload.

McCaffrey know-how—built into every bucket—means rugged dependability, more yardage and more profit. Other popular models include McCaffrey Rock Tongs, with double center pin design permitting each tine to accommodate itself around odd shaped rocks, and the MacGrab Grapple, excellent for handling rip-rap. Write us your requirements. We have the precise bucket for your job.

M. P. McCaffrey, Inc.

2121 E. 25th Street, Los Angeles 58, California



. . . for more details, write No. 98 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

MASTER MECHANIC

Los Angeles EMSA prepares material for new chapters

INITIAL steps for formation of new chapters of Equipment Maintenance Supervisors Assn. were taken by the Los Angeles EMSA group at its recent meeting. President Sam Weatherbie announced

that the board of directors had authorized preparation of copies of the by-laws and other information necessary to formation of chartered EMSA chapters. An identifying symbol has been adopted, and decals of the symbol have been authorized for distribution to members.

ALL THIS

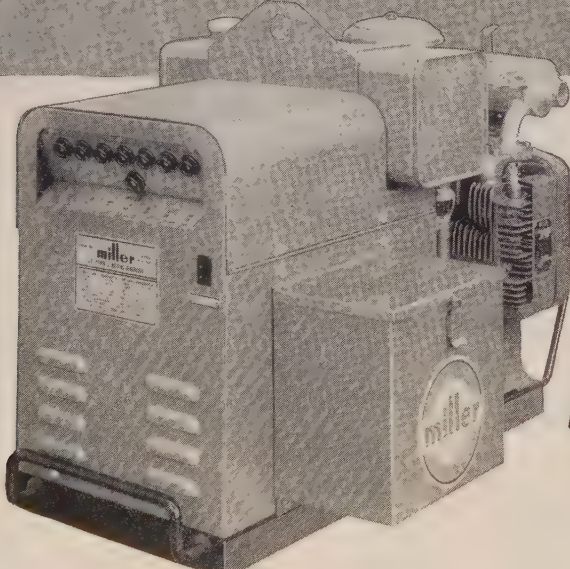
100% DUTY CYCLE

225 Amperes Rated Output

5 KW 115/230v AC

1 KW 115v DC

12.9 HP ONAN ENGINE



**AND
NOW**

**ELECTRIC
STARTER**

The world-wide respect and demand for this original Miller gas engine driven welder/power plant has never been greater. To this established popularity has now been added the convenience of Bendix drive electric starting as optional equipment on models AEA-200-L and AEA-200. Model illustrated and headlined is AEA-200-LE.

As a welder, as a power plant, as a pipe thawer, indeed, as a top hand from Canadian uranium mines to Brazilian cattle ranches — and on highway construction jobs and repair ships between — the AEA-200-L stands quite alone as "the finest in the field." In addition to optional electric starter, road trailers and rubber tired running gear are also available.

Other Miller gas engine driven DC and AC-DC welder/power plants to 300 amperes at 100% duty cycle. Full particulars will be sent promptly upon request, or a demonstration can be arranged at your convenience.

miller ELECTRIC MANUFACTURING COMPANY, INC., APPLETON, WISCONSIN
EXPORT OFFICE: 250 West 37th St., New York 19, N.Y. • Distributed in Canada by Canadian Liquid Air Co., Ltd., Montreal

... for more details, write No. 99 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

The equipment maintenance supervisors organization was founded in Los Angeles, and has grown to include a second chapter in the San Francisco Bay area. Preparation for additional chapters is being made in response to increased interest in other areas of the West as well as eastern regions.

The 60 members attending the November meeting heard questions and extemporaneous reports on:

How to move a DW-21 over the road in conformity with California's 35,600-lb. weight restriction — dollies can be rented for the purposes and installed in half an hour.

Los Angeles Fire Department's concern over transport of fuel in drums in pickup trucks — new teeth in existing LAFD codes.

What to do about cracked heads in 7000 series Allis-Chalmers HD-21 tractors — specially designed heads eliminate this problem.

Grease fitting manifold

A SIMPLE, inexpensive method of lubricating construction equipment bearings from one convenient central point is offered by the new Lincoln Centr-O-Block lubrication



system. By concentrating location of grease fittings at one source, connected to bearings by lubricant distribution lines, lubrication is speeded, man-hours reduced and chances of accidents lessened.

The Centr-O-Block system includes a grease fitting manifold with six outlets and all necessary adaptors, connectors, swivels, tube clips, feed line accessories and steel tubing for complete installation of the system.

... Write No. 180

Stud welding fasteners

COMPLETE standard designs and specifications for stud welding fasteners are contained in a 48-page booklet issued by KSM Products, Inc. Each specification page is prepared in a format similar to an engineering drawing including dimensions, use description, ordering and specifying information.

Twenty-eight different types of fasteners are covered, along with general information, weight charts, welding equipment and engineering data. Booklet is available free on letterhead request only from the manufacturer, Merchantville 8, N. J.

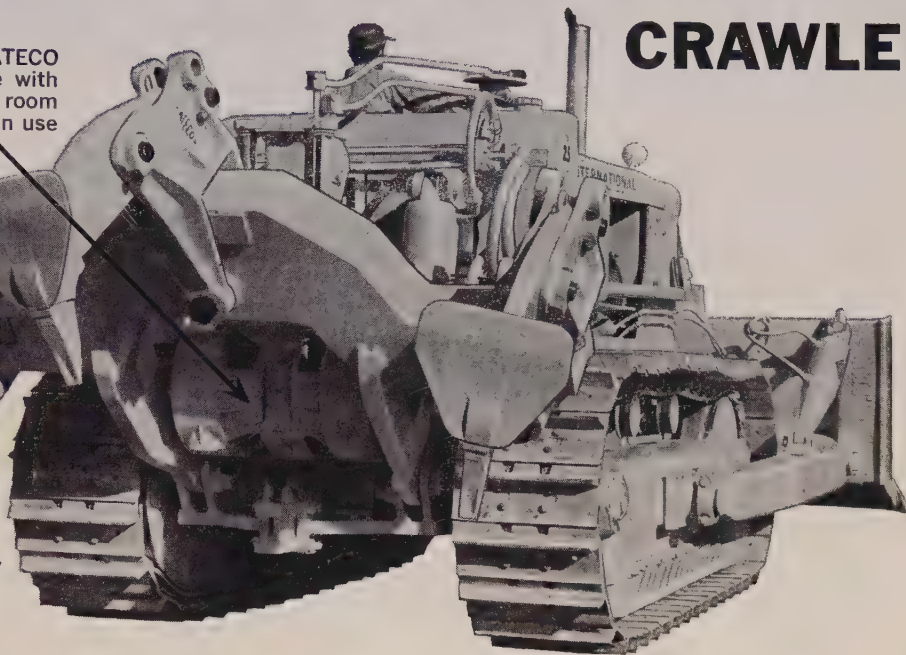


All new for '60—

RIPPERS for INTERNATIONAL CRAWLERS

ROOM FOR A WINCH! New ATECO Rock Ripper for TD25 available with offset tool beam; leaves plenty of room for double-drum winch so you can use cable-operated dozers, etc.

*This is my best
in 40 years—
Mack Woodridge*



ALL NEW ATECO's line of performance-proved heavy duty rock rippers for International tractors offer profit-making advantages on any earth or rock moving job.

Teamed up with a dozer or skid shovel, they provide perfect balance for increased traction and higher performance, ripping or earth-moving.

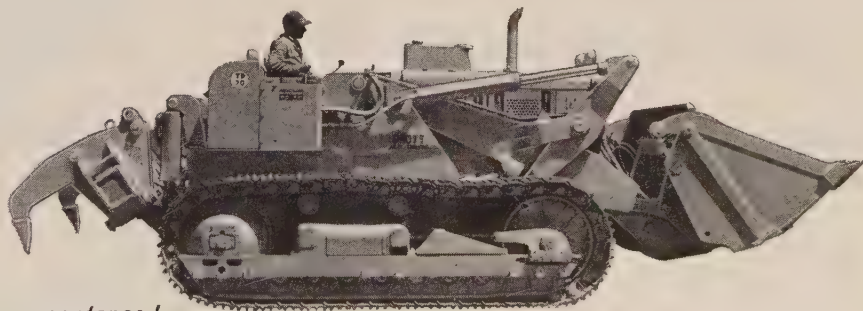
Their rugged, extra-heavy design has licked

the tough jobs the world over. Compare ATECO in every detail... the pioneer in tractor-mounted rippers. You'll find they're huskier, built to last longer, deliver more work with less downtime.

They're extra versatile, too. Complete range of models (to 72" ripping depth), shanks, wingfoot boots, cable-laying attachments, etc. available.

PERFECTLY-BALANCED TEAM!

ATECO Ripper and DROTT Skid-Shovel on this TD20 make a high-production combination you can't beat for moving rock, shale, other hard-to-load materials. Perfect weight distribution improves traction and performance.



Only ATECO Rippers have world-wide acceptance!

Make **your** International an all-around profit-maker with ATECO's new ripper. Available for TD14, TD15, TD18, TD20, TD24 and TD25. Prompt delivery. Write or wire for literature, prices. East and West deliveries.

Dept. W-1



**American
TRACTOR EQUIPMENT
Corporation**
Designers and Manufacturers
Since 1920

9131 SAN LEANDRO BOULEVARD • OAKLAND 3, CALIFORNIA

... for more details, write No. 100 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

187

NEW LITERATURE

To obtain free copies of literature described in this section, write in the numbers on reply postcard.

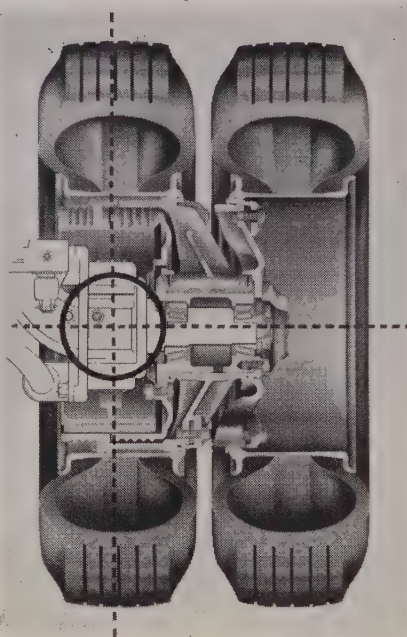
Post-tensioning for prestressed concrete

Sixteen-page engineering data bulletin 70-6 offered by Joseph T. Ryerson & Son, Inc., describes force development calculations, detailing and placement plans, tendon and anchorage assemblies, stressing and grouting equipment, and procedures for precast post-tensioned concrete construction. Detailed drawings show simply and clearly proven methods of post-tensioning.

... Write No. 181

Dual wheels in front

A dual-wheel front-steering axle developed by Bolling Wheel & Axle Division is described in a 4-page brochure issued by the company. The axle which fits conventional truck frames carries an 18,000-lb. payload and permits closer coupling of tractor, trailer rigs. The booklet also lists a 30,000-lb. axle available for off-highway construction equipment. Features listed include perpendicular kingpin, independent rotation of wheels and



tion equipment. Features listed include perpendicular kingpin, independent rotation of wheels and

double size brake drums which stop both wheels with conventional methods. Included are charts showing tire sizes, rim spacing, turning angles, and other dimensions and combinations possible with each of the two standard axles. Special applications are also available. Bearings and lubrication methods are the same as those used on dual trailing axles.

... Write No. 182

Low cost sewage plants

Complete design and installation of low-cost sewage for sub-division development is described in a 4-page brochure offered by Municipal Service Co. The sewage-treatment system called "Suburbia" is made up of steel components designed for the exact capacity and prefabricated in the company's plant. The booklet includes photographs of above and below ground installations as well as drawings of a typical system and construction photos of a component tank being

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

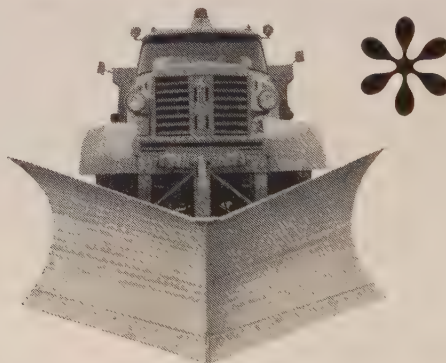
STRAIGHT PLOWS

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 PLOW

tested by Army Corps of Engineers
and Air Force at RACO

THE GLEDHILL ROAD MACHINERY CO.
Galion, Ohio

... for more details, write No. 101 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section
WESTERN CONSTRUCTION—January 1960



This New Airco 9500 Torch was designed with the operator in mind. Its smooth-working "E-ZE-OX" cutting oxygen valve, its fine balance and heft, its preheat valves located on same side of torch, its rugged triangular tube arrangement, its "corn-cobbed" knurled handle for nonslip grip — all make the 9500 a favorite with experienced welding men. Sizes 13" to 72".



the Heart
of the **NEW**
AIRCO

9500 TORCH

is the exclusive **NEW "E-ZE-OX" VALVE** for Cutting Oxygen

When an operator starts a cut with the Airco 9500 Torch, the new "E-ZE-OX" valve lets him open the cutting oxygen valve smoothly — and effortlessly — so there is no splash of molten metal. Nor will the torch kick up to mar the plate outside of the work area. This is par-

ticularly important in piercing starts. Heads available in three angles: 45°, 75° and 90°. Look in the Yellow Pages of your phone book under "Welding Equipment and Supplies" for the Airco Office or Authorized Airco Dealer nearest you.



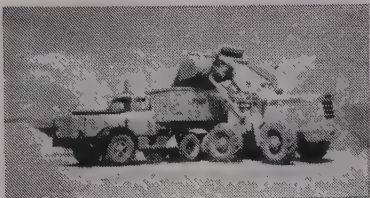
AIR REDUCTION PACIFIC COMPANY

A division of Air Reduction Company, Incorporated

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Gases... Carbide... Gas
Welding and Cutting Machines,
Apparatus and Supplies...
Arc Welders, Electrodes
and Accessories

... for more details, write No. 102 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section



**"WE RECOMMEND
LUBRIPLATE
LUBRICANTS"**

says—DUNDEE SAND & GRAVEL CO.
of Dundee, Ill.

"We have cut our maintenance to a minimum with LUBRIPLATE lubricants. For instance, not a single wheel bearing replacement since using LUBRIPLATE No. 70. We are more than pleased with LUBRIPLATE Nos. 90 & 140 gear oils and LUBRIPLATE Nos. 630AA & 630-2 for chassis and general lubrication. We heartily recommend LUBRIPLATE lubricants to all quarry and fleet operators".

*Esther J. Stirber
President*

**REGARDLESS OF THE
SIZE AND TYPE OF
YOUR MACHINERY,
LUBRIPLATE
LUBRICANTS WILL
IMPROVE ITS OPERA-
TION AND REDUCE
MAINTENANCE**



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LUBRIPLATE
THE MODERN LUBRICANT

. . . for more details, write No. 103

assembled. The booklet cites advantages of using this system to develop areas where population will not support a conventional system.

. . . Write No. 183

Euclid C-6 tractor catalog

A 24-page, full color illustrated booklet has been released by Euclid Division of General Motors on their Model C-6 crawler tractor. The brochure contains photographs of job applications, cutaways, sectional views and drawings that explain full power shift, torqmatic drive, hydraulic track tensioning and other design and operating features of the tractor. Form No. 607 also gives condensed specifications and performance charts, as well as data on hydraulic and cable control attachments.

. . . Write No. 184

Truck crane brochure

American's 60-ton truck crane is described in a new 16-page catalog released by American Hoist & Derrick Co. Actual illustrations taken on large engineering projects and big lifts are shown. Informative details on many exclusive features of the 700 series truck crane which will benefit owner and operator are given.

. . . Write No. 185

New street name kit

Designed to ease the task of engineers and executives responsible for planning street sign name programs, a working kit including specification sheets on sign hardware, has been issued by California Metal Enameling Co. The catalog describes standard signs in detail and the new reflectorized process, Porcelite, which is available at buyers' option on its street name signs. Specifications are printed on 8½ x 11-in. vellum paper, so they may be duplicated on office copying machines.

. . . Write No. 186

Area floodlighting

Crouse-Hinds' bulletin 2719 titled "Area Floodlighting Made Easy!" facilitates planning lighting for construction sites, and other open areas. The 16-page booklet gives quick reference guides for selecting incandescent or mercury floodlights, general purpose or heavy-duty types, and for determining how many floodlights are needed based on the size of the area to be lighted. Foot-candle charts and installation diagrams are included, along with listings of floodlights and mounting accessories.

. . . Write No. 186A

Power shift wheel tractors

The patented Select-O-Speed transmission now offered on its line of industrial wheel tractors is described in a 4-page booklet issued by Ford Motor Co., Tractor and Implement Division. The unit is a constant mesh planetary transmission hydraulically operated. Actu-



ated by a single selector lever, the transmission has 10 forward speeds and 2 reverses. Shifting up or down is done without use of clutch on the "go". The booklet includes a complete description of the transmission charts of speeds at various engine rpm. setting and various applications of the selector speed transmission. Also described are such features as pre-set, stops for the control lever, and quick disconnect for highway transport.

. . . Write No. 187

Watershed program.

An 8-page booklet describing construction of small dams, channels and other flood control structures authorized under the Watershed Protection and Flood Prevention Act administered by the Soil Conservation Service, has been issued by the Caterpillar Tractor Co. Included are case histories of four control projects undertaken by this program, including the type of structures built and contractors performing the work. . . . Write No. 188

Mobile drill brochure

A 4-page brochure describing the B-40 Explorer is offered by Mobile Drilling, Inc. The Explorer unit can be mounted on any ½-ton carrier and is available in self-powered or PTO models. Among the features described are the folding tower which lies flat over the unit for

transport, hinged drill-head which can be swung away to permit drive-hammer operations and the centralized one-man control panel. The hydraulic rotary head drive has a speed range of 50 to 600 rpm. and the hydraulic feed delivers a ram force of 6,283 lb. The unit core drills to 500, augers to 75 ft. and drills holes up to 24 in. in diameter. Drawings and dimensions of the unit are provided along with tables of specifications.

... Write No. 189

Back-ripper folder

"Preco Back-Ripper Facts" is the title of a folder recently prepared by Preco Inc. on the basic principles and operating techniques of back-ripping. The brochure shows how back-rippers do their work while the tractor is backing up. It describes the application of the equipment in ripping blacktop, land clearing, mining, and various other general construction jobs. A specification chart enables reader to select the right size and style back-ripper to fit Cat track-type tractors.

... Write No. 190

Welding catalog

A 20-page catalog (F-8982E) now available from Linde Company covers the Heliarc line of manual welding equipment. Every manual torch in the Heliarc line is illustrated in one-half actual size. Accessories available for each torch are described in the torch section of the catalog, and are also listed separately in table form. Equipment described is suitable for manual welding of all commercial metals, ranging from thin-gauge to 1/2 in. thick.

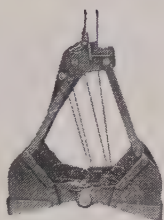
... Write No. 191

Roller has Revers-O-Matic drive

A 4-page folder providing specifications on the 12-ton Ingram 3-wheel roller has been issued by Acme Iron Works. Among the features described are the Revers-O-Matic drive unit consisting of a pair of hydraulically-actuated multiple-disc clutches, controlled by a single hand-lever which also operates the engine accelerator to provide smooth shockless reversing; 6-cylinder Hercules engine with standard torque convertor; 5-speed oil enclosed transmission and anti-friction bearing construction. The 12-ton roller delivers 432 lb. compaction per lineal inch. It can be increased to a total weight of more than 13 tons with use of optional rolls.

... Write No. 192

you can buy an ERIE BUCKET GRAB OR GRAPPLE for every purpose



Extra Light Rehandler



Light Rehandler



Standard Rehandler



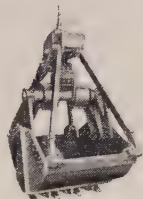
Extra Light Wide Rehandler



Wide Rehandler



General Purpose



Heavy Duty



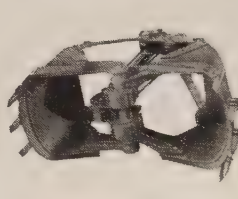
Extra Heavy Duty



Heavy Duty Round Nose



Extra Heavy Duty Round Nose



Round Nose Dredger



4-Leaf Orange Peel



4-Tine Grapple



Stacked Wood Grab



Log-Pole-Stone Grab

THESE ERIE FEATURES MEAN OUTSTANDING PERFORMANCE

- Tough, Rigid One-Piece Welded Head
- Block and Tackle Plus Lever Arm Design
- Accurately Balanced Scoops
- Hard-Biting Manganese Steel Teeth
- Heavy Duty Scoops that are Structurally Clean Inside
- Low Headroom Plus "Low Open" Center of Gravity
- Continuous Reeving with No Reverse "S" Bends



Write for Catalogs

ERIE STRAYER COMPANY

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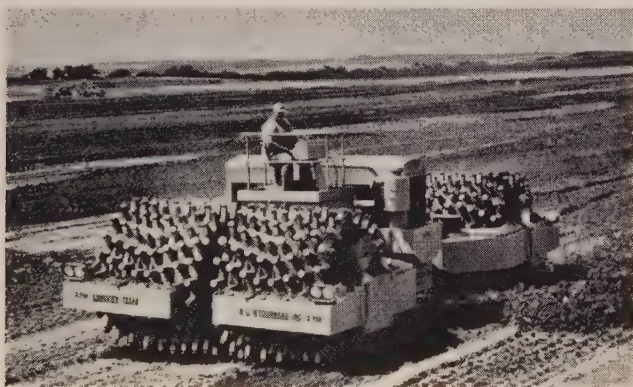
... for more details, write No. 194 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

NEW EQUIPMENT

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

Self-powered rollers use electric drive

Four 5x5 sheepsfoot rollers each powered by an electric motor geared to the inside of the drum are attached to a central diesel generator to form the new "Power Packer" announced by **R. G. LeTourneau, Inc.** The 80,000-lb. compacting machine can run back and forth over the fill without turning around. It is controlled by an operator sitting on a platform high above the center of the machine running push-button controls. Both control panel and operator seat revolve so that the operator can face the direction of travel either forwards or backwards. Rollers are mounted in heavy frames, 2 in front and 2 in back. Each roller is articulated to conform to uneven terrain and the frames are hinged together for steering. The machine is 28 ft. long and 14 ft. wide and has a "wheel base" of 19 ft. Power source is a 420-hp. GM



diesel engine coupled to a.c. and d.c. generators manufactured by LeTourneau. LeTourneau motors are also used for power application including those driving each drum. Regenerative electric braking is used for operational purposes while electro-magnetically controlled, multiple-disc brakes are available for emergency stops and parking. A single control governs speed and power. A second governs braking, and all other functions are controlled by fingertip electric switches. The Power-Packer has a normal operating speed of about 300 ft. per min. (3.5 mph) and a maximum speed of 5 mph. The machine operates with equal speed and power in either direction and thus can make successive passes over the fill without turning around.

... Write No. 193

Trojan shovels made in California

Functionally designed styling of Yale & Towne Manufacturing Company's Trojan line has been incorporated in two new Trojan tractor shovel models now in distribution. Models 134 and 164 will be manufactured at the Trojan Division's plant at San Leandro, Calif.

Model 134 has a lifting capacity of 8,000 lb. and a selection of buckets of 1, 1 1/3, and 1 2/3-cu. yd. capacities. The tractor shovel has a dumping clearance



of 10 ft. 2 in. under the bucket hinge pin, and 8 ft. 8 in. under the bucket cutting edge.

Model 164 has a lifting capacity of 10,000 lb. and a selection of buckets of 1 1/3, 1 2/3, and 2-yd. capacities.

Both models are available with either gas or diesel power, and are equipped with full power shift 3-speed transmission, and a 3.5 to 1 torque converter.

Functional design of these newest Trojan tractor shovels affords maximum operational efficiency, excellent service accessibility and full 360-deg. visibility.

The operator's compartment is equipped with all gauges necessary to indicate the proper functioning of the tractor shovel. Reduction of daily service time has been achieved by making the engine and the battery compartment readily accessible.

The front bumper is an integral part of the frame, protecting the tractor shovel from damage due to contact with a truck or bin while dumping its load.

... Write No. 194

Double-tapered bituminous tank

Positive center drainage is a feature of the new double-tapered bituminous hauling tanks introduced by **E. D. Etnyre and Co.** Designed for highway hauling, the Etnyre tanks are sloped from either end to



the center discharge point. This shape offers positive center drainage with greater tank strength through use of a conical cross-section shape. Three other designs are available in the company's line. These include regular cylindrical or oval tanks as well as a tapered shape for positive rear drainage.

... Write No. 195



WHYTE STRAND

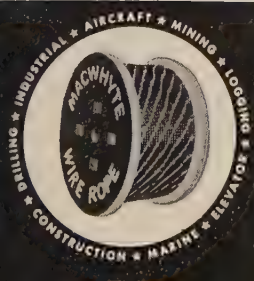
brings out the best in your equipment!

Your construction equipment has been designed to do a certain job — efficiently and economically. It's our business to design and manufacture wire rope that matches the performance of those machines.

Because Macwhyte manufactures its own wire and fabricates only wire rope products, every bit of our engineering know-how and experience is concentrated on one objective: to give you the best rope possible for your equipment. As

a result, Whyte Strand rope stands up longer, reduces downtime, boosts work output—brings out the very best in your equipment!

Here are special Whyte Strand ropes Macwhyte makes for you: shovel hoist rope, dragline, clamshell crane rope, boom hoist line, dozer rope, scraper rope, contractor's hoist and derrick rope, and winch line. Recommendations for all your equipment are shown in special brochure No. 5702, free for the asking.



MACWHYTE Wire Rope

MACWHYTE WIRE ROPE COMPANY

MILL DEPOTS: Los Angeles 33, 185 S. Myers St., PH: ANgelus 8-2884 • San Francisco 7, 188 King Street, PH: EXbrook 2-4966 • Portland 9, 1603 N.W. 14th Ave., PH: CAPitol 6-6588 • Seattle 4, 87 Holgate St., PH: MAIn 2-1715

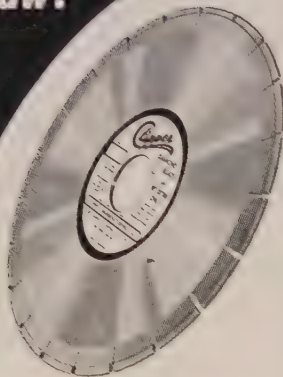
**SAW CONCRETE & ASPHALT
FASTER WITH THE ALL-NEW**

Clipper
SALES RIGHT THRU
• **SELF-PROPELLED**

36 H.P. CONCRETE SAW

**Over 36 Outstanding
Features Found on No
Other Concrete Saw!**

Here is
Engineering
Leadership
by Men Who
Know the
Concrete
Sawing
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**BEST BLADES
For Every Saw
Any Job!**

Choose from the world's
largest selection of
Premium Quality Dia-
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Fastest Cutting at
the Lowest Cost on
any job. Let your
Clipper Factory
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sentative help
you select the
right Saw and
Blades for
your job!

**Call him
Collect
Now!**



Other models
Gasoline or Electric
Priced from **\$395**



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428X

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Phone EASt 2-2881

THE CLIPPER MANUFACTURING CO.
2800 WARWICK • VICTOR 2-3113 • KANSAS CITY 8, MO.

Offices in Principal Cities Coast to Coast

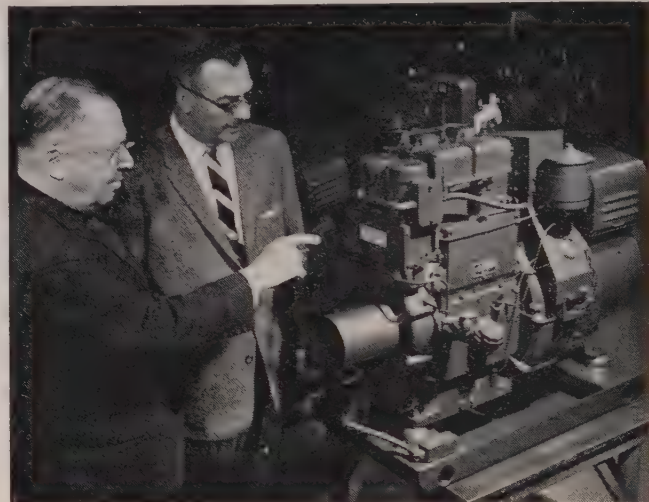
Factories in ENGLAND, FRANCE, GERMANY, ITALY

... for more details, write No. 106 on Reader Service Postcard

See manufacturer's detailed listing in Yellow Section

Diesel-powered electric plants

Portable electric plants powered by 2-cylinder, air-cooled diesel engines are now offered by Kohler Co. These plants are available in 3 sizes: 2,000, 5,000 and 7,500 watts. The diesel units offer fuel economy, low maintenance up-keep, quick all-weather starting, in-



terchangeability of all parts except the crank shaft. The engine has a manually operated compression release on push button and manual starting models, with a solenoid operated compression release on the remote starting models.

Write No. 196

A-C introduces medium size motor grader

Expanding its line of motor graders, Allis-Chalmers Manufacturing Co. introduces its Model 145 at 80 hp. and 21,540-lb. weight. The machine was designed to meet market demands for medium power and weight that would be capable of production at the heavy-duty level. The Model 145 increases to three the available models of A-C graders—Model D is at 58 hp. and Model 45 is at 120 hp.

The newest addition is powered by an A-C, 4-cylinder diesel engine developing 80 hp. at 1,800 rpm. Its six forward speeds range up to a top of 20.3 mph. and the three reverse speeds give up to 7 mph. One of the important design features of the new unit is the high clearance provided under the front axle and moldboard circle to permit handling big windrows.

Design also indicating its capacity for its performance is its ability to do 90 deg. bank cutting with its



12-ft. moldboard in sloping highway cuts and in ditch construction. The machine also has a wide shoulder reach providing an advantage in grading soft highway shoulders. It also has a power actuated, fully reversible circle turn.

Leaning front wheels are power operated and the 6,500 lb. of weight on the front axle gives the grader an extra resistance to side thrust and front end stability. Operator comfort and effectiveness is provided by a wide roomy and unobstructed deck which is free of brake and clutch pedals that are suspended from the forward panel of the operator compartment. Quick operating positive controls are located within easy reach, adding to the operating ease of the new machine.

Special additional equipment include power steering, hydraulic shifting of the moldboard, heavy-duty scarifier, snow plow and a range of special tire options.

The picture shows a Model 145 owned by a municipality and at work on a street-widening project. This unit is also used by the city in the building of its oiled streets.

Write No. 197



will handle 1,500 gpm. and gives up to 55 ft. of spray coverage.

The picture shows the machine working on a highway contract of J. E. Haddock, Ltd., near Big Bear, Calif. The large, heavy flotation tires provide easy hauling and maneuverability in soft fill material. The unit is working in rugged country at altitudes of around 8,000 ft.

The gravity spray bar, located under the tank, can be furnished with a pressure valve to provide a needling effect to secure soil penetration. Air actuated valves operated from a panel at the driver's seat control water cutoff for the spray bars. Variable speed control of the pump engine from the driver's seat can be provided as an optional. Also, suction loading can be provided as an optional. The tank is 21 ft. long with a section which is 96x120 in.

Write No. 198

Sprinkler provides volume and control

Combining features of capacity and output with accurate control, Model STT-100 sprinkler tank has been developed by Southwest Welding & Manufacturing Division (Yuba Consolidated Industries). The unit is designed as a semi-trailer tank of 10,000-gal. capacity hauled by a Cat DW-21 tractor. The unit is equipped with front, rear and gravity spray bars. A 6-in. pump powered by a separate Cat diesel engine

INGRAM

3 WHEEL

and

TANDEM ROLLERS

AVAILABLE IN ALL SIZES

Acme IRON WORKS



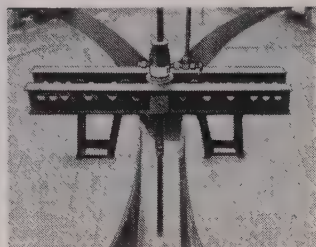
P. O. BOX 2020 • SAN ANTONIO, TEXAS
EXPORT OFFICE 26 BROADWAY, NEW YORK

... for more details, write No. 107 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

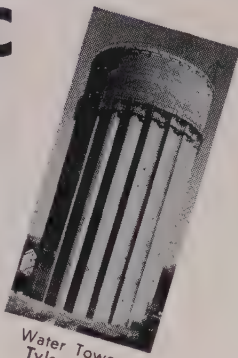
HYDRAULIC SLIPFORM SERVICE



Bridge Pier,
San Francisco

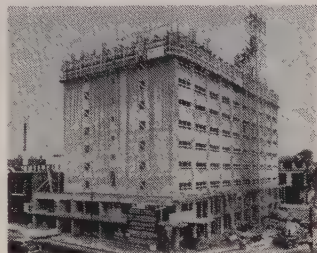


All-inclusive compact jacking unit



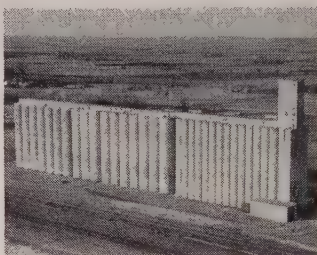
Water Tower,
Tyler, Texas

Apt. House, Memphis, Tenn.



You build the form, "Concretor" equipment raises it automatically. Adaptable to all types of vertical construction. On-the-job engineers available. Send for job studies.

Elevator, Fremont, Neb.



B. M. HEEDE, INC., 630 Sixth St., San Francisco 3, Calif.

In Long Island City 1, N. Y.: 30-01 37th Ave.

In Montreal, Can.: 625 Faillon St.

... for more details, write No. 108 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

2 SIZES **BULLDOG** GRIP battery hold-downs

(Patent Pending)

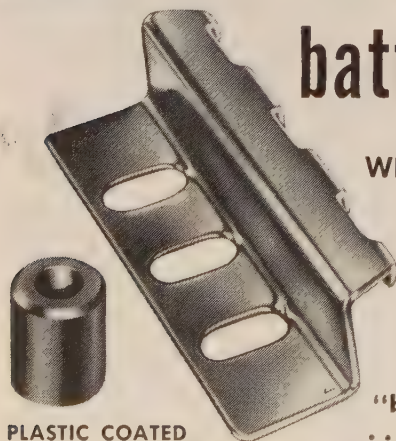


(6 and 12 volt sizes)

**WILL REPLACE PRACTICALLY ALL
BATTERY FRAME COVERS**

- Cuts down inventory
- Reduces necessary investment
- Quick turnover
- Steady profits

**"bites like a bulldog
... never lets go!"**



**PLASTIC COATED
HEAVY GAGE STEEL
CONSTRUCTION**

(Packed 6 Pr. to a carton)

**WICO
DISTRIBUTORS**



Auto Electric Supply Co., San Francisco, Calif.
Automotive Products, Inc., Portland, Ore.
Frank Edwards Co., Salt Lake City, Utah.
Electric Equip. Co., Los Angeles, Calif.
Charles C. Jones Batt. & Elec. Co., Phoenix, Ariz.

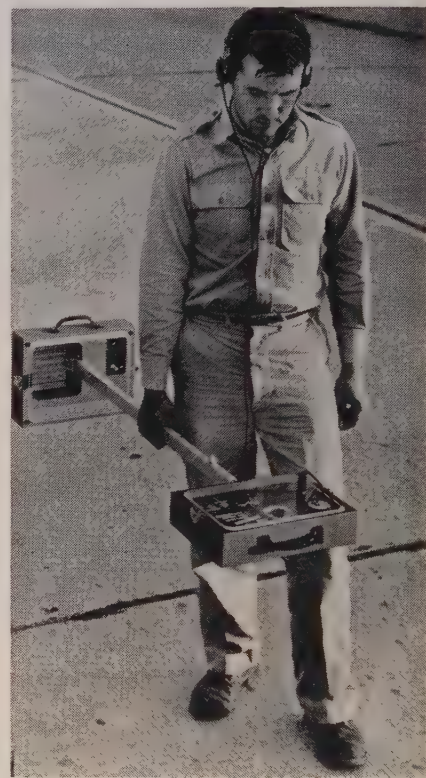
Oakley Wholesale, Inc., Boise, Idaho.
Original Equip. Inc., Billings, Mont.
Pacific Mag. & Eng. Co., Seattle, Wash.
Spitzer Elect'l Co., Albuquerque, N.M.
Spitzer Elect'l Co., Denver, Colo.

WICO ELECTRIC CO. West Springfield, Mass., U.S.A.
A DIVISION OF GLOBE-UNION INC.

... for more details, write No. 109 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

Mine detector spots pipes

The "Signalmaster", a new electronic detection device is announced by **The Goldak Co., Inc.** The signalmaster locates and traces pipes, cables and conduits to a depth of 18 ft. It can also be used to measure the depth of a line, and

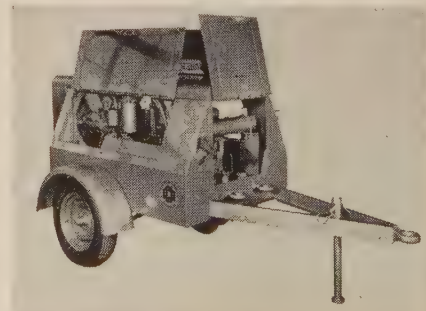


to pinpoint valves; caps, risers, junction boxes, etc. Completely transistorized, it is lightweight and requires only small flashlight batteries for power. The unit can be operated by inexperienced personnel following the instructions included with the unit.

Write No. 199

Light-duty rotary compressor

Gardner-Denver Co. announces its oil-air-cooled model RP85 compressor, extremely compact model of 85 cfm. capacity. Powered by a 4-cylinder engine the single stage compressor offers many of the features found in the company's five larger models. Compressor vanes



can be easily removed, replaced or inspected. Inspection plates provide access to vital parts and positive-metered oil flow assures lubrication under all operating conditions. A Thrift-Meter speed control assures fuel economy and longer life. The unit includes a unit available as 2-wheeled trailer or without wheels for truck mounts.

Write No. 200

Citizens-Band transmitter

A radio-telephone unit embodying both receiver and transmitter operating on any two of the recently designated 23 "Citizens-Band" channels is offered by Kaar Engineering Corp. The new radiotelephone called the "D" phone is de-

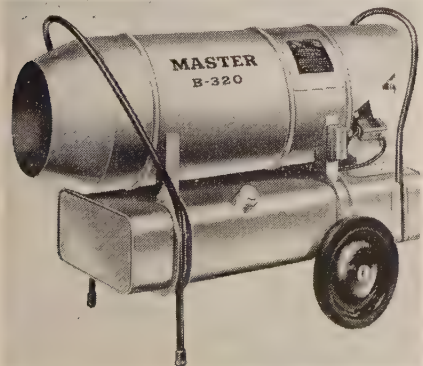


signed for economical short range communication. Any citizen over the age of 18 can be licensed to use this unit simply by filling out an FCC form. The D phone is a 5-watt mobile unit available for either 12-volt d. c. or 117-volt a. c. operation. A 6-volt d. c. model will be available soon. The compact receiver-transmitter weighs only 10 lb. and comes complete with a push-to-talk mike, one set of crystals, a complete summary of instructions, FCC rules for licensing and operation and the forms required for submission to the FCC.

Write No. 201

Space heater has high capacity

Master Vibrator Co. has introduced a compact portable heater of 320,000 BTU capacity which will produce enough forced warm air to heat 7,000 sq. ft. of floor space with an 8-ft. ceiling. The thermostat controlled unit is an oil-burning furnace on wheels. It is started



Here's 7 to 20 Tons of Uniform Compaction—Self-Propelled, Safe, Maneuverable

First pneumatic compactor designed from the ground up as a self-propelled unit!

The STA-BILT 5620 is the *only* pneumatic compactor with front-wheel drive for "straight-down" ground pressure—no creeping, scuffing or shearing. It's the only unit with equal weight distribution on 8 front, 9 rear tires. Maximum overlap of front and rear treads provides even, uniform compaction that more than meets the toughest specs.

It's maneuverable, turns easily in 18 ft — well within road width. It's

fast on the job and between jobs, moving at speeds up to 20 mph. Low-slung and safe, it works on slopes as steep as 3-to-1. The operator sits up front, with excellent visibility in all directions.

It's self-powered — your choice of gasoline or diesel. It features torque converter drive plus power shift, with six speeds forward, three reverse.

STA-BILT 5620 . . . in a class by itself!

SEE YOUR DISTRIBUTOR FOR ALL THE FACTS

Machinery Supply Company

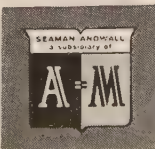
Stockton-Santa Ana, California

Aztec Equipment Company

Phoenix, Arizona

The Roeder Equipment Company

Reno, Nevada



SEAMAN-ANDWALL CORPORATION

A Subsidiary of the American-Marietta Co. • Milwaukee 1, Wisconsin

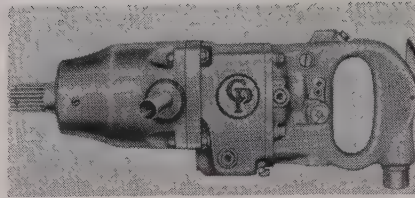
. . . for more details, write No. 110 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

simply by setting the thermostat which automatically shuts off fuel and ignition when desired temperature is reached. The model B-320 plugs into any regular 115-volt a.c. outlet and operates on kerosene, No. 1 or 2 fuel. It can run up to 16 hours continuous on one tank of fuel and burn so completely that no dangerous fumes or gases are produced.

Write No. 202

Air wrench has 1,000-lb. torque

Consistently accurate and fully controlled torque output as high as 1,000 ft.-lb. are characteristics of the

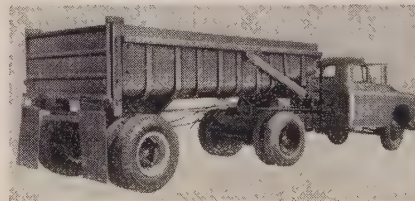


impact wrench model CP-612-RLTP introduced by Chicago Pneumatic Tool Co. The reversible wrench has a fully enclosed torque-control mechanism keeping tool length at a minimum and eliminating the need for extensions and adapters. The new model weighs slightly more than its predecessor and packs up to 25% more power. Features include an aluminum-encased "power vane" rotary motor which stops the instant the preset torque value is reached, guaranteeing precision workmanship. The unit has a spline drive with built-in socket-lok.

Write No. 203

Lightweight cable dump trailer

Lift arms located on the outside of the body provide an increased dump angle on the Freuhauf-Schonrock single axle cable dump



made by Freuhauf-Trailer Co. The low cost dump trailer is 1,000 lb. lighter in weight than other models. Pressed steel wrap-around girdles are used in place of the conventional heavy center frame. Tapered front of the body pushes the load from the trailer at small dumping angles. Horizontally braced tailgate is hinged at the top to permit higher stock piling.

Write No. 204

Four-channel radio

The "Citizens Communicator", 4-channel 2-way radio is announced by Gonset Division, Young Spring & Wire Corp. Designated model G-12, it operates within the 26.965



to 27.235-megacycle Citizens Band recently assigned by the Federal Communications Commission for virtually unrestricted business or personal use. The unit is simple, non-technical in operation. Desired channel is selected by a front-panel switch with no tuning necessary.

Write No. 205

profit from the efficiency and economy of a

LENKER

DIRECT
READING
LEVEL ROD



Every
Rod Reading
An Elevation.

No
Computations



Awarded
Medal of Merit
For Utility
— BY —
FRANKLIN
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Distributed by
SURVEYORS
SERVICE CO.

2021 South Grand Ave.
Los Angeles 7, Calif.

Manufactured by

LENKER MFG. CO.

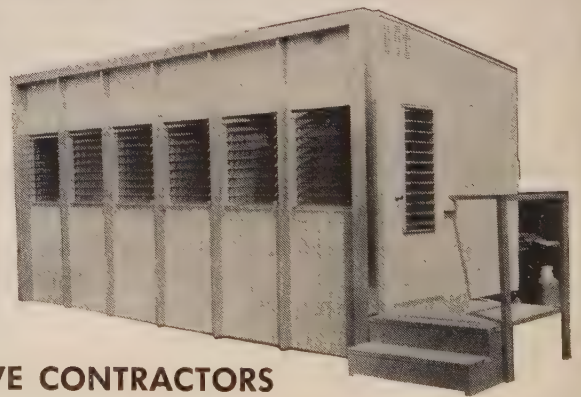
Sunbury, Pennsylvania



FIRST MOBILE TRAILER OFFICE

DESIGNED

FOR ON-THE-MOVE CONTRACTORS



Here's the first mobile unit that looks like a modern, stationary building. It's ideal quarters for anyone who moves and requires an "on-the-job" location.

Mobile-Office has two roomy, separate 8' x 10' rooms. Each office is handsomely constructed with plywood wall paneling, acoustical ceilings, light fixtures, inlaid tile linoleum, and its own private entrance. Jalousie windows and vented roof assure ventilation in both rooms.

Mobile-office is ruggedly built to California Housing Code. Extra strength is maintained with 2" walls, 3" double floor on welded channel frame. It's completely fiberglass insulated, and the all-aluminum exterior is finished in a choice of Dupont Dulux enamel colors.

Mobile office is complete with 4 duplex electric outlets, and 110V outside receptacle. Steps, platform and electric brakes are standard. Furnishings optional.

For further information write or call:

GO-CAL INC.

1832 El Camino Real
Mountain View, Calif.

Call
YO 8-1624

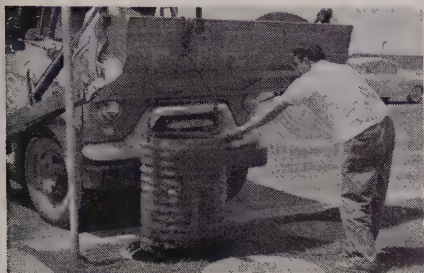
... for more details, write No. 111

... for more details, write No. 112 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

WESTERN CONSTRUCTION—January 1960

Loader pulls drain traps

A simple attachment composed of a hook, chains, and spreader bar is used by the City of Fresno, Calif., to convert its Frost truck-mounted loader to a utility hoist. The at-

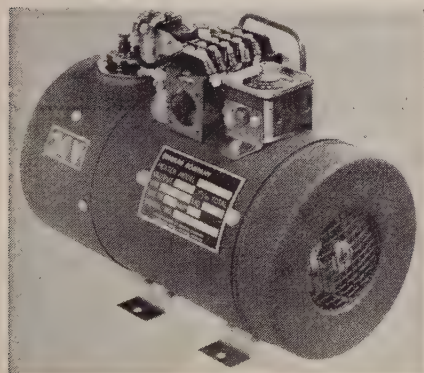


tachment shown is used by City crews to remove storm drain trap containers. Removal time is cut 17 min. under the old method. Loader and hoist attachment is manufactured by P B Loader Mfg. Co.

Write No. 206

Compact multi-fuel heater

A 15,000 BTU forced air heater which operates on all common liquid fuels, including diesel and JP-4, has been introduced by the Benmar Co. The compact heater unit is 10 $\frac{3}{8}$ in. long, 8 $\frac{3}{8}$ in. high and 5 $\frac{1}{2}$ in. wide. It is designed for use



in vehicles as well as shelters and can be used as an engine pre-heater. The unit weighs less than 10 lb. and can be easily installed in any position.

Write No. 207

Low cost!



*5 SIZES
to fit blades
from 20"
to 52" high

Ask your equipment dealer
or write for sizes, prices

Utility Clamp-on DOZER TOOTH

SPEEDS CLEARING, DIGGING, RIPPING

Install or remove in minutes!

Simple, one-piece utility tooth, with positive clamp and replaceable boot, gives your dozer a real "bite" when you need it. Low cost, top quality. The right size* for your tractor, large or small.

young IRON WORKS

2959 First Ave. So.
Seattle 4, Washington

188 Blair Blvd.
Eugene, Oregon

... for more details, write No. 114 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

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

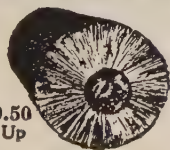
Sales agents: W. J. Burke & Co., in San Francisco, Oakland, Los Angeles, San Diego, Sacramento, Portland and Seattle.

... for more details, write No. 115 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

ROTARY SWEEPER BROOMS

WE MANUFACTURE

- Austin-Western
- Cub Low Boy
- Det-Harvester
- Fordson
- Ferguson
- Grace
- Guttersnipe
- Hough
- Huber
- Jeep-Willy's
- Littleforts
- Little Giants
- Meli (M.B.)
- Blumberg
- Ram
- Rosco
- Spearswell
- Tampo
- Special Cores made to order



\$69.50
Up

COCOA ROLLER MATS •
Drag Broom Levelers
Street Push-Concrete
KENNEDY'S Brooms

RE BUILDING
PAIRS

VAN BRUSH MFG. CO. INC.
2728 McGee Trfwy. Kansas City, Mo.

... for more details, write No. 113

See manufacturer's detailed listing in Yellow Section
WESTERN CONSTRUCTION—January 1960

News of DISTRIBUTORS

Pete Jones now representing Road Machinery in Arizona

R. A. "Pete" Jones has been added to the sales staff of Road Machinery Co., according to announcement of Harold R. Bone, president. For the past seven years Jones had been affiliated with Brown-Bevis Industrial Equipment Co. in Southern California. Prior to this he had many years of experience with a construction equipment firm in Arizona. Jones will cover the eastern part of Arizona for all lines handled by the company and will operate out of the Phoenix office.



Jones



Johnson

Stanco appoints General Hoist HIAB dealer

Stanco Mfgs. & Sales, Inc., Santa Monica, Calif., announces the appointment of General Hoist & Equipment Co., Lynwood, Calif., as an authorized dealer and service depot for HIAB hydraulic truck cranes in Southern California. Cliff Johnson, sales manager of General Hoist, says he finds the HIAB thoroughly fills the bill when it comes to truck-mounted self loaders, giving an outstanding performance in every respect.

Barber-Greene names Pacific Northwest distributors

Barber-Greene Co., announces the appointment of additional distributors in the Pacific Northwest: Cox Machinery Co., Seattle; Inland Diesel & Machinery Co., Spokane, and Clyde Equipment Co., Portland. Barber-Greene manufactures both continuous-mix and "Batchomatic" asphalt plants, asphalt finishers, ladder and wheel-

type ditchers, portable and permanent belt conveyors, bucket loaders, as well as other materials handling and construction equipment.

Cox representing LIMA in Washington

Baldwin-Lima-Hamilton Corp., Construction Equipment Division, announces the appointment of A. H. Cox & Co., Seattle, as distributor for LIMA Austin-Western crushing, screening and washing equipment. Their territory covers seventeen counties in the state of Washington.

Curtiss-Wright appoints NW rep

The South Bend Division of Curtiss-Wright Corp. announces appointment of Washington Machinery Co., Seattle, to distribute its complete line of construction machinery throughout Washington and in northern Idaho. Washington Machinery, with a branch at Spokane, represents also other such nationally known manufacturers as Insley, Standard Steel Corp., Chain Belt and others.

Announcements from Cate

Robert M. Evans, general sales manager of Cate Equipment Co., Salt Lake City, announces the acquisition of the Harnischfeger Corporation account for P&H shovels, and the crushing and screening



equipment account of Pioneer Engineering. Also announced is the recent opening of a new branch at Price, Utah, under the name of Cate-Carbon Equipment Co. Lester V. Hutchens is president of this company, which functions as a separate corporation.

Top Oliver dealers listed

The ten top-selling Oliver tractor dealers were awarded certificates last month during a 3-day visit to Iowa which included a tour of the Oliver factory at Charles City. Winning firms and the representatives who accepted the awards are: M.F.D., Inc., San Jose, Calif., Bob van Breen; Fowler Farm Supplies, Fowler, Calif.,



LIVELY EQUIPMENT CO. HOLDS OPEN HOUSE

More than 1,200 visitors toured the new offices, and parts facilities of Lively Equipment Co. in Albuquerque, N.M., during the firm's open house last month. On display were a new \$50,000 office building, a \$60,000 service building, and two remodeled buildings, one a former theater now converted to a parts warehouse. Refreshments were enjoyed by the many guests. Party was attended by Carl Rolf, president of Pioneer Engineering, and John Carroll, president of American Hoist & Derrick Co., whose equipment is part of Lively's sales line. Officials of the Lively Equipment Co. are Bill Lively, president; D. Orton Smith, general manager; Bill Rice, director of sales; Cecil Terrel, Albuquerque sales manager; Herb Vesper, El Paso sales manager; Bob Mackey, office manager; and Charlie Jones, service manager.

COOK BROS.

**HIGH PAYLOAD Bottom Dump
Equipment - - - For FASTER,
MORE PROFITABLE
Hauling and Spreading
Work**



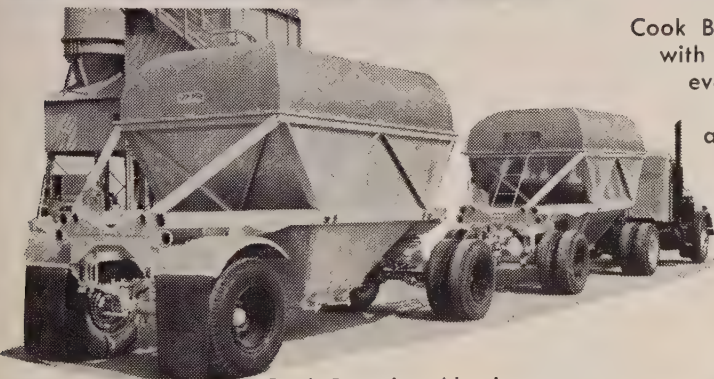
HIGH SPEED • BIG CAPACITY • LOW COST

**Cook Bros. EARTHKING . . . The Newest Concept
In Earth Moving Economy!
Maximum Payload . . . Lowest Cost Per Ton Hauled!**

"Earthking" Bottom Dump Train (above). Four wheel drive with physical capacity in excess of 28 tons. Legal capacity up to 26 tons on the highway.

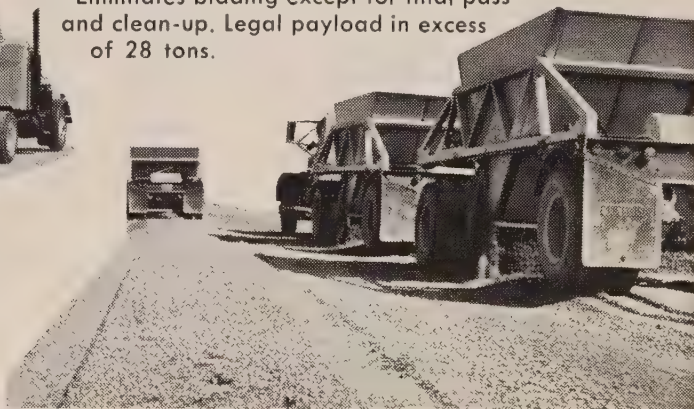
"Earthking" Bottom Dump Semi (left) loads and unloads on the move . . . has fastest load • travel • dump cycle of any heavy earth hauling equipment. Physical capacity in excess of 45 tons off the highway . . . legal capacity 20-25 tons on the highway.

Cook Bros. Aluminum Self-Propelled Aggregate Spreader with positive 2-way gate control gives full width, even depth of material without segregation. Eliminates blading except for final pass and clean-up. Legal payload in excess of 28 tons.



Cook-Brogdex Aluminum

▲ Bottom Dump Trains with legal payloads up to 28 tons provide fast, profitable highway hauling for dry flowable materials such as cement, sugar, grain, chemicals, fertilizer, etc.



Cook Bros. also manufacture the versatile **STABILIFT** frameless end dump semi trailers with hydraulic hoist . . . standard sizes up to 30 ton capacity . . . special units up to 70 ton capacity.

Transfer Trailers are also made with steel or aluminum bodies in 25 ton and 26½ ton capacity, respectively.



*Factory Branch

**THE NATION'S MOST
COMPLETE LINE OF BULK
HAULING EQUIPMENT**

*See Them In Action
On Your Job!*

COOK BROS. EQUIPMENT CO.

3334 SAN FERNANDO ROAD, LOS ANGELES 65 • CLINTON 6-3151

DISTRIBUTED BY:

ARIZONA: Cook Bros., Phoenix
CALIFORNIA & NEVADA: Cook Bros., Los Angeles*, Oakland*
COLORADO & WYOMING: Jacobs-Kerr & Co., Denver, Colorado
HAWAII: Moir Industries, Inc., Honolulu
IDAHO & UTAH: Harris Truck & Equipment Co. Boise, Idaho • Tremonton & Logan, Utah

MONTANA: Seitz Machinery Co., Billings and Great Falls; Roberts Truck & Parts, Butte

NEW MEXICO: Inland White Truck Company, Albuquerque

OREGON: Cramer Machinery Co., Portland and Eugene

WASHINGTON: Andrews Equipment Service, Spokane
Reo Washington Sales, Seattle

. . . for more details, write No. 116 on Reader Service Postcard
See manufacturer's detailed listing in Yellow Section

"BERG"

HIWAY SURFACERS



"BERG" Hiway Surfacers are extensively used for removing high spots and surface variations from concrete roads, streets, floors, airport runways and many other applications.

Also "BERG" Concrete Surfacers for surfacing buildings, bridges, dams, walls, etc. Many models to select from.

Contact Your "BERG" Distributor

THE CONCRETE SURFACING MACHINERY COMPANY

4665-69 Spring Grove Ave.
Cincinnati 32, Ohio

... for more details, write No. 117
See Mfrs. listing in Yellow Section



T. L. SMITH CO. distributors and district salesmen were given a preview of the 1960 Smith mixer line at their annual all-day sales conferences recently held in Milwaukee. The new truck mixers were discussed in detail. After the technical session, the group toured the T. L. Smith plant for a first-hand view of the new units in production.

Charles Bacon; Robertson Implement Co., Lancaster, Calif., Bob Robertson; Schneider Tractor Co., Gardena, Calif., Bob Winters and Bill Myers; Flood Equipment Co., Sacramento, Earl Flood; Guerin Implement Co., Phoenix, J. V. Guerin; Dolk Tractor Co., Rio Vista, Calif., Stanley Dolk; Oliver Equipment Co., Yuba City, Calif., Aylett Sparks; and Equipment, Inc., Modesto, Calif., Ray Comber. A total of 80 dealers and salesmen from California, Arizona and Nevada were flown to Waterloo, Ia., to attend the Oliver Fair, a display of the 1960 equipment line, as guests of the Oliver Corp.

Hamilton named dealer for Wisconsin engines

Hamilton Engine Sales, Inc., Portland, has taken on another line. Wisconsin Motor Corp. has appointed Hamilton representative for its air-cooled engines in the Portland area.

New Hi-Way distributor in Utah

Atlas Equipment Co., Salt Lake City, Utah, is a new distributor for Highway Equipment Co., Cedar Rapids, Ia. Atlas will handle the Hi-Way line of ice control, seal-coating and bituminous paving equipment for the entire state of Utah.

M-F dealer named for Denver area

Appointment of Power Motive Corp., Denver, Colo., as an area dealer for Massey-Ferguson Industrial Division is announced. Power Motive will handle the complete M-F industrial equipment line including shovel loaders, industrial tractors, tractor-mounted backhoes, loaders, etc.

PM stocking outlets

W. J. Burke Co., Los Angeles, well known Southern California distributor of construction equipment, is now stocking representative models of Pacific Mercury electric plants. A complete parts and service department is being main-

IF YOU POUR CONCRETE

these catalogs are for you...
just check those desired

☐ Catalog featuring EFCO Steel Forms available on a purchase basis.

☐ Catalog featuring Economy Steel Forms available on a rental basis.

☐ Catalog featuring EFCO Steel Forms, Economy Steel Forms and Special Economy Steel Forms.

☐ Folder featuring Economy Steel Forms for precast, prestressed concrete.

Economy Forms Corp.
Box 128-V, H. P. Station
Des Moines, Iowa

Please send literature checked above, and address of nearest sales office (there are 24 coast-to-coast).

Name _____

Firm name _____

Street address _____

City _____ State _____

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See Mfrs. listing in Yellow Section

SAVE ONE MAN with INCON'S STROLMETER

a simple measuring device with which one man can accurately measure distances. STROLMETER cuts 50% off the cost of measuring paved surfaces, measures up to 1000 feet, yet costs no more than a conventional 100 foot tape. Endorsed by engineers and contractors, STROLMETER pays for itself in a matter of hours. Send for this money-saver now.

\$17.50

FOB SAN LORENZO, CALIF.

INCON INC.

Box 33, San Lorenzo, Calif.

DOUBLE WORKLOAD with INCON RE-BAR BENDERS

RE-BAR bends 3 to 4 bars at once with maximum speed—minimum effort. The average tool can work only 1 to 2 bars. Inexpensive, rugged RE-BAR, used on-the-job, can bend column and beam stirrups, radius hooks or other curves from 1 to 180 degrees. Saves workmen's time, costly delays. Eliminates return of bars to fabricating shop for changes or corrections. Saves original cost on first job.

\$27.50 or **\$24.50**
each or 10 or more

San Lorenzo
FOB

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WESTERN CONSTRUCTION—January 1960

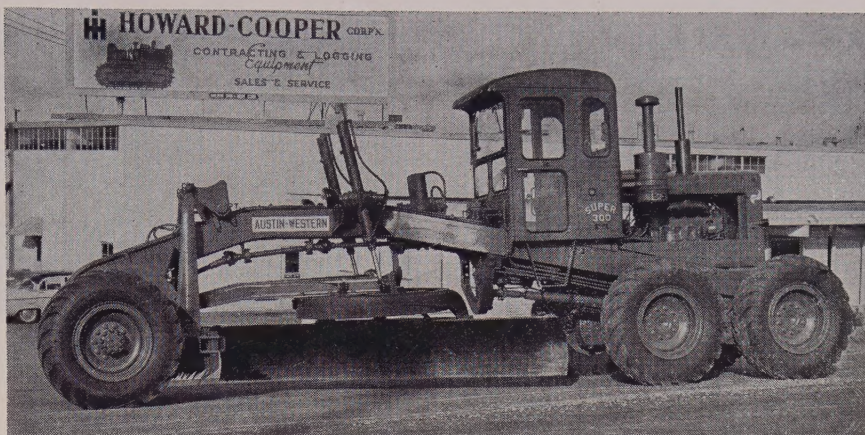
tained also. Likewise, Francis C. Mueller Co., San Luis Obispo, Calif. has been appointed a stocking distributor for PM electric plants and Solo concrete vibrators in the area served by them, with complete parts and service available.

Surveyors Service receives expanded territory

Surveyors Service Co. of Los Angeles has been named exclusive distributor throughout nine Western states for the Wild Heerbrugg line of surveying instruments. George A. Greenewald, president of the Los Angeles company, said his firm has been distributing this line for some time, but that distributorship has been substantially increased. States now covered include California, Washington, Oregon, Arizona, Nevada, Idaho, Montana, Utah and New Mexico.

Richard Lewis joins Miller as branch manager

Richard W. Lewis, formerly district representative for Clark Equipment Co., Construction Machinery Division, and more recently sales manager for Totem Equipment Co. in Seattle, is now branch



HOWARD-COOPER Corp. has been appointed dealer for the line of Austin-Western construction equipment for the western Oregon and western Washington territory. The line includes motor graders, rollers, sweepers and cranes. Headquarters of the equipment company, which is headed by Frank Cooper, are in Portland. Complete parts and service facilities will be available through the Portland office, and branches in Seattle, Wash.; and Eugene, Roseburg, Central Point and Coquille, in Oregon.

manager for Miller Machinery Co. at Billings, Mont. From its headquarters at Missoula, Miller also announces the acquisition of the account of Kolman Manufacturing Co. for the state of Montana.

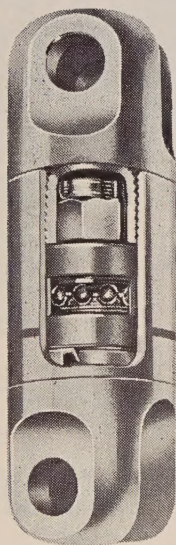
Gunderson promotes Jack Werner

Gunderson Bros. Engineering Co., Portland, announces the pro-

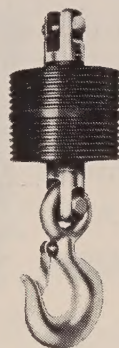
motion of Jack Werner from sales representative to sales manager. He will be in charge of Detroit Diesel Engine sales, Electromotive generator set sales, and Allison torque converter and transmission sales for the state of Oregon. John Wiley, formerly with International Truck for seven years, joined the firm to handle sales of the above products in eastern Oregon.



From the
MANUFACTURERS
of the
FINEST
PRECISION
SWIVELS
in the
WORLD



BALL BEARING SWIVELS



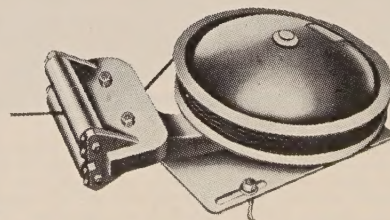
INSULATOR LINK



HEADACHE BALL



HIGH LIFT BLOCKS



TAGLINES

Miller Swivel Products Inc.

P.O. Box 938 • POMONA, CALIFORNIA

DEALER INQUIRIES INVITED

... for more details, write No. 120 on Reader Service Postcard

See manufacturer's detailed listing in Yellow Section

New accounts announced

G. W. Rowand, manager of Western Machinery Co., Spokane, Wash., announces two new accounts: Austin-Western motor graders, rollers, sweepers, and hydraulic cranes, and the Gradall and Hop-to machines manufactured by Warner-Swasey Co.

New sales engineer for Sahlberg

Bill Durand has been appointed by Sahlberg Equipment, Inc., Seattle, as sales engineer for the Tacoma area. He will operate out of Tacoma.

Two appointments by Inland Diesel

Two new appointments have been announced by Inland Diesel & Machinery Co., Spokane, Wash. Paul E. Williams was recently named sales manager. Inland Diesel has a sales force of seven operating under the direction of the assistant manager, Harold Davis, and Williams. Dallas L. Phillips was named sales engineer to represent the company in the eastern Washington-Columbia Basin territory. He services the area while re-



Williams



Phillips

siding in Kennewick. Inland Diesel was recently appointed representative for Baldwin-Lima rock crushers in addition to its other major lines of construction equipment.

Sales promotion manager named

Lloyd Herman is the new sales promotion manager for Industrial Equipment Co. of Billings, Mont., replacing Rowland Throssell.

New account; new man

The Carrington Co., Seattle, Wash., recently took on the R. G. LeTourneau account for logging arches and loaders in their area. Carrington has also taken on a new

man to represent them in the southeastern Alaska territory. He is Floyd M. Benedict who makes his headquarters at Ketchikan.

News from Western Machinery Co.

Western Machinery Co., Phoenix, Ariz. was recently named dealer for contractors equipment manufactured by Cleveland Trencher Co. Also announced by Western Machinery is the appointment of Ben Brunhofer as office manager.

Clyde takes on Noble account

Clyde Equipment Co., Seattle, has taken on distribution of the Noble Company account for sales and service in western Washington and including Yakima and Chelan counties, according to announcement by F. J. Zuger, sales manager.

Dick Dennis joins Berglund

Announcement is made by Berglund Tractor & Equipment Co., Napa, Calif. of the appointment of Richard W. "Dick" Dennis as industrial sales representative. He will handle Caterpillar equipment sales in the southern part of the

**HIGHWAY CONSTRUCTION or
CITY MAINTENANCE**

**CONVERT YOUR TRUCKS
TO SELF LOADERS and
DOUBLE WORK LOAD
with FROST LOADER SHOVELS**

MODEL F4-HD



MODELS

F4-HD
4000 lb. lift
1 yd. capacity

FC4
Clam Attachment
2500 lb. lift
1 yd. capacity

F4
2500 lb. lift
¾ yd. capacity

The FROST LOADER SHOVEL attached to any truck automatically converts it to a double duty vehicle capable of doubling or tripling its work load. Ruggedly built to withstand years of abuse, yet easily operated, the hydraulically operated FROST LOADER can fit all trucks regardless of make, model, or design. FROST LOADERS are available in three models from ¾ to one yard load capacity, and from 2500 to 4000 lbs. lifting capacity.

Also available is the FROST cut out attachment for use in pipe line installation clean up.

Whether the job is to move gravel, sand, earth, snow or rubbish, the FROST LOADER can boost your truck's earning capacity and work load. Send for illustrated brochure.

DISTRIBUTORSHIPS NOW AVAILABLE

P B LOADER MFG. CO.

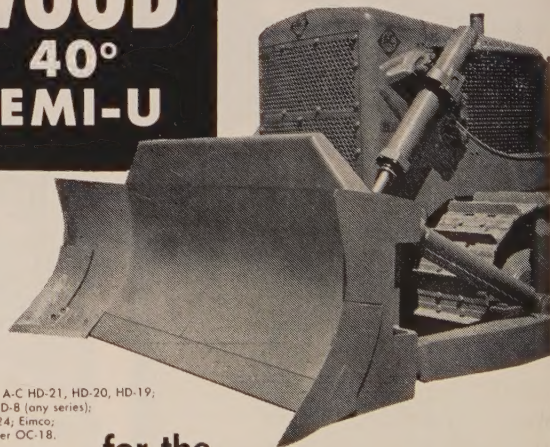
P. O. BOX 341

FRESNO, CALIF.

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**WOOD
40°
SEMI-U**

For: A-C HD-21, HD-20, HD-19;
Cat D-8 (any series);
TD-24; Eimco;
Oliver OC-18.



**for the
ROUGH GOING!**

- Specifically designed for heavy-duty road-building, pioneering, land-clearing work.
- Engineered to utilize maximum working capacity of today's high production tractors.
- Delivers profitable production in terrain and under conditions impractical for conventional tractor-blade combinations without blasting.

Write for literature

WOOD TRACTOR CO.

5241 N. E. 82nd Avenue • Portland, Oregon

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See manufacturer's detailed listing in Yellow Section

WESTERN CONSTRUCTION—January 1960



Richard W.
Dennis

Berglund territory; plus those contractors moving on to jobs in all of the company's territory. Announcement comes from William R. Berglund, president of the firm, who reports that Dennis brings to his new position a background of more than twelve years' experience in the equipment industry.

MANUFACTURERS

Fairbanks-Morse sets up Pacific Coast region

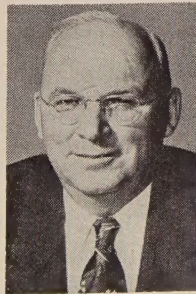
Establishment of a Pacific Coast sales region for Fairbanks, Morse & Co. was recently effected. Roger M. Murray, who for 26 years has been manager of the company's San Francisco branch, was elevated to the position of vice president in charge of the region. This marks the first step in sales regionalization for Fairbanks-Morse. The area in the region includes all or part of the eleven Western states, Hawaii and Alaska. District sales offices in San Francisco, Los Angeles, Salt Lake City, Portland, Ore., Seattle, Wash., and Phoenix, Ariz., will now be responsible to Murray at San Francisco.

Cal Basile new head of Link-Belt Speeder

C. M. "Cal" Basile has been elected president of Link-Belt Speeder Corp., Cedar Rapids, manufacturer of power cranes and shov-



Basile



Lehti

els, to succeed D. W. "Dave" Lehti, who retires after 25 years with the company. Basile has been with Link Belt Co. since 1928.

save
your
voice



with the

Falcon Chief
and save money, too!

speak as you normally would—
be clearly heard and under-
stood up to ½-mile away!

Unique transistorized power megaphone—an instrument you will be proud to own. Gives up to 6,000 two-second amplified messages from standard replaceable battery. Light (3¼ lbs.)—easy to handle and use. Attractive red and gray polyethylene—built for abuse. Attractively priced for you, too!



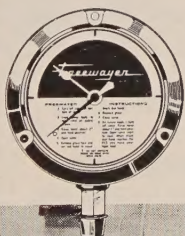
WRITE for particulars — and
free, informative "Sounds for
Safety" folder! Dept. WC

Falcon® ALARM CO., INC.
SUMMIT, NEW JERSEY

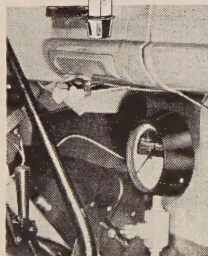
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See Mfgs. listing in Yellow Section

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.

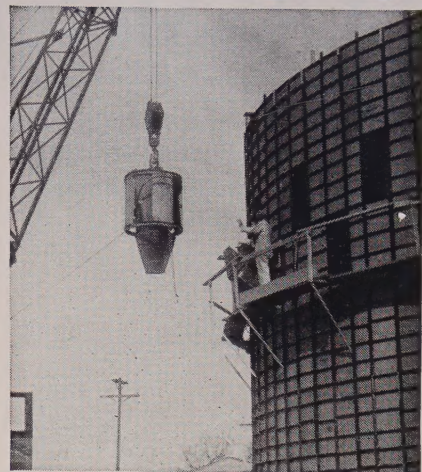
Price —
\$99.00 including
Federal Tax
Discounts to dealers
and fleet owners.



Mailing Address:
P.O. Box 28,
Montebello, Calif.
Telephone:
Raymond 3-4621

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16 Working Days

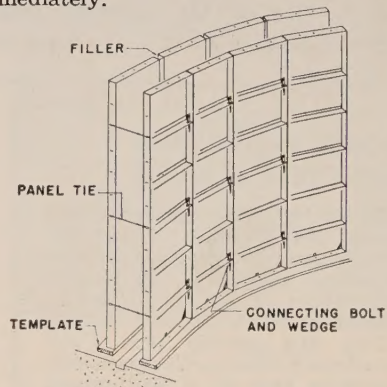


Experienced Men and Symons Forms

... Pour Sewage Treatment Plant in Record Time

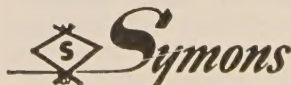
One of the speediest sewage treatment plant projects ever undertaken in the Southwest was completed in 16 working days near Phoenix, Arizona. Capacity of plant is rated at 5 mgd. It has a 700,000 gallon digester.

F. H. Antrim Construction Company used 15,500 square feet of Symons Steel-Ply panels. An important factor in selecting Symons Forms was that they could be erected on one side of the circular tanks without installing ties immediately.



Forms were contracted for on a rental basis with an option to purchase. Later, Antrim decided that the forms were so well adapted to his work that he purchased 14,000 square feet of the panels.

Folder giving the complete Antrim story sent FREE upon request.



SYMONS CLAMP & MFG. CO.
683 Thornton Street, San Leandro, California
Phone: LOckhaven 9-9159

MORE SAVINGS FROM SYMONS

... for more details, write No. 125
See Mfgs. listing in Yellow Section

CLASSIFIED

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.

Rates are \$15.50 a column inch. Copy should be sent in by the 15th of month preceding publication date.

DISTRIBUTORSHIP AVAILABLE

Road maintenance and repair machinery—Distributorships for the States of California, Nevada, Oregon and Arizona are available for responsible distributors on an item of road maintenance and repair machinery selling for approximately \$1000.00. Write Martin Co., P.O. Box 187, Kewanee, Illinois.

POSITION WANTED

EQUIPMENT MANAGER

General equipment superintendent for heavy construction fleet. Set up and control equipment costs. Purchase new and used equipment. Supervise complete maintenance operation. Modify and design special equipment. Write to Box 1A, WESTERN CONSTRUCTION, 609 Mission Street, San Francisco 5, Calif.

FOR SALE

Used Crushers For Sale

Pioneer model 39V crushing and screening plant serial #CP-4066 with 3025 roll crusher; 1036 jaw crusher; 4' x 10', 3-deck screen; 30" x 50" feed conveyor on pneumatic trucks; 30" x 50" delivery conveyor on pneumatic trucks; 24" x 18" fines conveyor on tandem rear axle w/air brakes. Front dolly-feeder hopper combination. Condition: Very good—has extra set of jaws, roll assembly rebuilt 30,000 tons ago—entire plant in very good condition.

Pioneer model 46VE portable crushing and screening plant serial #42C-302 with 4022 roll crusher; 1036 jaw crusher; 4' x 12' four deck screen; 30" x 50" feed conveyor on pneumatic trucks; 30" x 60" delivery conveyor on pneumatic tires; tandem rear axle with 8-10:00 x 20 pneumatic tires; air brakes. Electric motors for each conveyor and the screen; set up for diesel power on crushers.

Condition: Jaw crusher rebuilt 1957; roll crusher rebuilt 1959; screen is in good condition. Plant in generally good overall condition. It is crushing now.

Both crushers are priced for quick sale.

For further information write—phone—wire collect

H. W. MOORE EQUIPMENT COMPANY

5990 Colorado Blvd.

Phone Atlas 8-0771

Denver, Colorado

NOBLE AUTOMATIC CONCRETE PLANT

W/500 ton, 4 bin aggregate storage, 4800 cf bulk cement silo recirculating type, 320 bbls/hr cement elevator, 200 tons/hr aggregate, 3 cy dual batcher, moisture meter for sand batcher. Two 84's non-tilt type CMC stationary mixers. Compact unit, requires only 50' x 100' ground space. Also car shaker.

MASON & HANGER-ROLANDI
Box 518, Crockett, California

1—MODEL 38B BUCYRUS ERIE Combination Crane and Dragline. This machine used very little, carries new guarantee. A bargain!

FINCHAM EQUIPMENT CO. RAce 2-5777
1033 W. Mississippi Denver 23, Colorado

10" & 12" H. BEARING PILES

600 pcs. 60' 10" 42 lb. 12" 53 lb.

9 DIESEL ELEC. LOCOMOTIVES

20 Ton, 25 Ton, 45 Ton, 80 Ton GEN. ELEC.

STANHOPE 60 E. 42nd St., N.Y. 17, N.Y.

John Deere expands industrial department

John Deere Co., San Francisco, announces promotion of R. Stanley Hill to industrial sales manager for the San Francisco branch territory comprised of California, Arizona, and Nevada. Hill has been with John Deere since 1949 serving as industrial sales engineer and in other sales capacities.

Top level appointments

Announced by Gardner - Denver Co. is the election of A. G. Lindquist to the position of financial vice president and secretary. He has been vice president and treasurer since 1954. Robert H. Meystre was elected treasurer. Gardner-Denver is a major manufacturer of construction equipment, with headquarters in Quincy, Ill.

IH Western management appointments

Two management appointments at International truck district sales offices are announced by L. W. Pierson, manager of sales for International Harvester's motor truck division. W. L. Topf, formerly assistant manager of the Spokane, Wash., district, has been transferred in the same capacity to the Los Angeles district. He will headquarter in Phoenix, Ariz. H. D. Taylor is the new assistant manager for the Salt Lake City district. He was branch manager of the Oakland, Calif., district.

D. R. Wright succeeds Earl Schaub

Promotion of Donald R. Wright to West Coast manager of retread rubber sales for The General Tire & Rubber Co. is announced by John G. Ragsdale, assistant to the vice-president-sales. Wright is moving from Akron, Ohio, and will headquarter at General's new retread rubber plant in City of Industry, Calif. He will be responsible for retread rubber sales in the 13-state Western region. He succeeds Earl Schaub who recently was appointed to the position of Los Angeles division manager.

Cole heads accessory sales

McCulloch Corporation, Los Angeles, a leading manufacturer of power chain saws, has named Scott Cole to head up its nationwide sales of chain saw accessories and attachments. Joining McCulloch in 1953 as field service representative, Cole worked in sales and services all over the country. In 1957 he was made manager of direct factory dealer sales, supervising all company sales in the Southern California area.

News from Calaveras Cement Co.

Calaveras Cement Co., a division of The Flintkote Company, has appointed new sales representatives in Reno, Nev., and at Modesto, Calif. Mel J. London, vice president in charge of marketing, announced the transfer of Kent Vickery from the Modesto territory to Reno, and his replacement in Modesto by Michael O'Brien.

Also announced is the appointment of Evan Hall as assistant plant manager at the San Andreas, Calif., plant, succeeding the late Tom Love, and plans to construct a \$14,000,000 cement plant at Redding, Calif., to be completed in early 1961.