

WESTERN CONSTRUCTION

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EQUIPMENT DIRECTORY

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

EIGHTH ANNUAL EDITION

***A Special Issue* • JANUARY 1957**

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1957 DIRECTORY

BEGINNING ON page 117 is the Eighth Annual Edition of this directory which is a complete reference to the "who," "what," and "where" of construction equipment distribution in the West.

For 31 years the construction and engineering publication serving the special needs of ALL the West and Alaska

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WESTERN CONSTRUCTION

Cutting through the fog in specs

SHARPER BIDDING puts added emphasis on the exact meaning of engineering plans and specifications. Whether the bidder be an experienced contractor who has decided to take a job with the aid of a very sharp pencil, or a new contractor who is estimating by intuition, the situation is the same. Every day of the job, differences of opinion between resident and superintendent must be settled through the words and meaning of the specs. When two parties read the same words with a different point of view, the clearer and simpler the statements the better.

There is growing evidence that sound judgment and a desire to reduce needless friction are cutting through specification double-talk. At both the Federal and state levels engineers of awarding agencies and contractor groups are meeting more frequently to narrow the zone of potential misunderstanding. The less fog the better. Even though legal or other considerations may now allow the changing of a single word in the specs, the airing of ideas and opinions is profitable. The very foundation of the contract system and its unique place in our construction economy needs this strengthening of mutual agreement.

One example of progress in this direction is the meetings that are held between a national committee of the AGC and the engineering administrators of the Bureau of Reclamation. Today's engineering project is complex enough to justify any amount of conference time if it results in a clearer appreciation of design and field problems.

Another example with a different approach to the same problem is the plan of the Corps of Engineers to invite prospective bidders on large jobs to attend a conducted tour of the project site to secure a full understanding of the plans and the thinking of the designers.

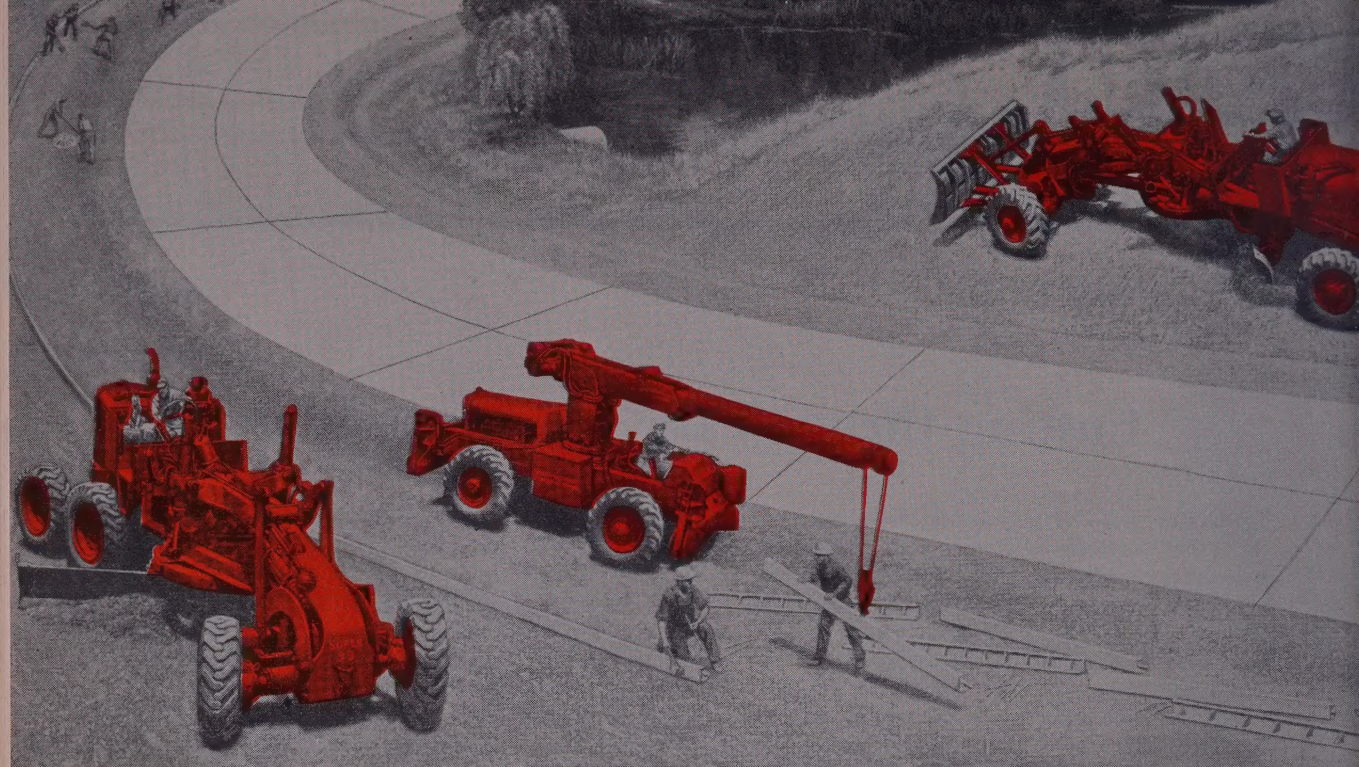
Quite recently the Southern California Chapter of the AGC has been working through a committee to clarify and remove points of possible disagreement in the standard specifications of the California Division of Highways. Tangible results have already been accomplished, with agreement to hold future conferences to consider other areas with cloudy interpretations.

Take a simple illustration on the definition of a "working day" according to the specs. Engineers frequently set completion dates based on this unit, which must be accepted by the contractor. Who is to decide on some of the marginal days? Certainly the interests of the engineer and the contractor are somewhat different on the definition of a working day. The suggestions of the AGC committee have been used as the basis for rewording the section on this term to make it more realistic.

For the engineering purist, this idea of having a task force of contractors make suggestions on modifying documents usually considered untouchable will be of serious concern. When a single contractor suggests modifications in plans or specifications on his particular job there can be room for suspicion. But when a group proposes changes that would apply to all bidders on future jobs the element of individual gain is gone. It then remains for the engineering authorities, considering all safeguards in the interests of the public, to evaluate changes that will make jobs run smoother and more efficiently.

Any change that will cut through specification fog is a forward step for both engineer and contractor.

Jim Ballard



Super 99 Power Grader—
6-wheel drive, 6-wheel steer

Hydraulic Crane with
live boom action

99-L Power Grader—
4-wheel drive, 4-wheel steer

Here's why it will pay you to go **AUSTIN-WESTERN** in '57

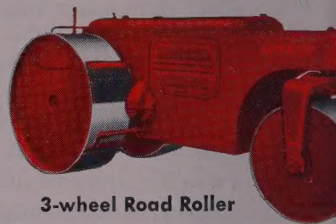
The men who own and operate Austin-Western equipment will tell you that it's tops in its field. Graders, rollers, sweepers and hydraulic cranes all offer you more extra features than anything else in their class. That's why the A-W red is such a familiar sight on construction, maintenance and materials-handling jobs all over the world. Compare these advantages with those of any similar equipment, and you will see why it will pay you to go Austin-Western in 1957:

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JANUARY

EQUIPMENT— Key to construction progress

NO OTHER REGION of this country needs big modern construction equipment as much as the West. Demands from contractors of this region have provided important stimulants in developing many types of equipment that are now considered standard throughout the country.

As a decade of record highway building begins in 1957 the function of this equipment, its distribution and servicing, and the growing demands of those who purchase and use it form a logical introductory theme to an issue featuring the most comprehensive available directory on construction equipment and its distribution throughout this Western region.

Western growth

With almost monotonous regularity all census reports and unofficial predictions place the growth of the West far above the national average. The latest official prediction of the U. S. Bureau of Census for these Western states is shown in the map on this page.

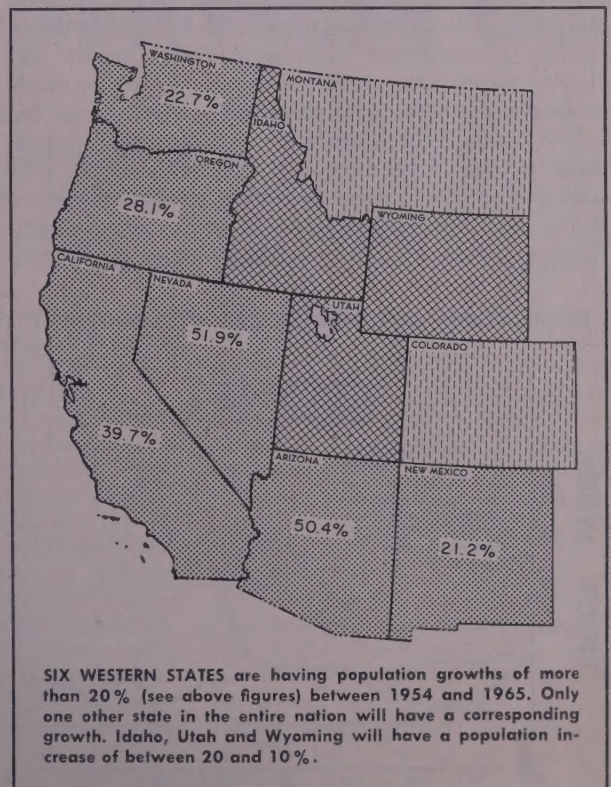
The Bureau, looking forward to 1965, indicates that seven of the 48 states will show a population growth (1954 to 1965) of more than 20%. Six of these seven states are in the West. Three other Western states will have population increases varying from 10 to 20%; these are Idaho, Wyoming and Utah. Two other states will have population increases in the 5 to 10% range.

The official prediction concludes with the statement that the 39.7% increase in California during these years will result in a population of 17,467,000 for the state in 1965. In that year the state will exceed the population of New York.

Population growth will always represent the prime factor in determining construction activity. In fact, the rate of growth is more important than the population at any one time, so that many Western states although

having a relatively small population will represent more potential construction than Eastern states with larger but static populations. It is this dynamic factor of growth that will maintain construction activity at an increasing rate throughout the entire West during coming years.

If this Western growth was occurring in a region which presented few construction problems it would still result



in a construction boom. However, the rugged character of the West—easy on tourists' eyes but tough on equipment—introduces problems that multiply the volume of construction for highways, water, power, buildings and recreation.

Bigger heavier units demanded

From canal-lining jumbos to rippers of giant size, the contractors of the West have insisted that their needs be met by machines with special features or unusual size. Each new machine has permitted the contractor to bid a shade lower on the next job. This in turn encouraged him to press for a bigger unit or for more ingenuity on the part of the manufacturer to cut another cost corner. Whether it was a tractor extended to provide twin engines, or a pug-mill that mixed as it was towed down the highway the combination of contractor demand and manufacturing genius has kept the West a proving ground and established its leadership in construction activity.

From the very beginning the West was not a logical place for the average manufacturer to sell directly or to use the type of outlet common in the East. The West developed its own peculiar system of distribution for its own construction industry. The Western distributor is much more than a retail sales outlet for machinery. He is a distinct part of the construction industry and the indispensable link between manufacturer and purchaser. His service to the industry is the mark of his success, as compared to the mere ability to sell.

Construction jobs in the West are isolated and frequently miles removed from population centers. As a result the distributor becomes the partner of the contractor in helping to carry the necessary supply of parts and to have the facilities for servicing in his shop or on the job the equipment which he provides. In fact, the element of providing service represents the key to much of the equipment selling in this region.

The characteristic distributor in these states must be larger than his Eastern counterpart. For example, job-time is too costly to permit getting parts from manufacturers, and distributor inventories run extremely high. Factory experts are not available for every emergency,

which means that the distributor and his organization must also fill this function.

Bigger machines mean bigger projects

Indirectly the growth in the size of construction equipment has changed engineering design of structures. The engineer must always recognize the cost factor in his determination of feasibility. If the construction machinery and methods which were standard three decades ago were still being used in the field today the dams, aqueducts, the highway cuts and fills would be outside this realm of feasibility.

In the highway field alone the demand for reduced grades and straighter alignment to handle modern speed and traffic volume has been answered by today's equipment. In fact, modern traffic could not move on the roads that would have been financed with older methods of construction.

Making labor more productive

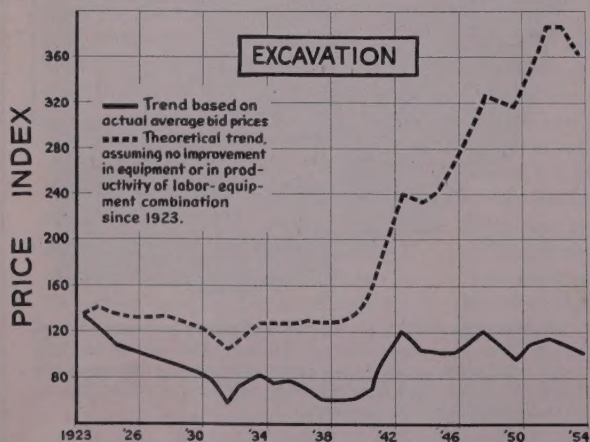
Another important factor in this general development of bigger and faster construction machinery has been the progress that permitted the efficient and well trained operator to turn out more production units per period of time. There has been the obvious increase in the cost of skilled construction labor. This man on the machine represents the final key in reducing the unit cost on a construction job. If this skilled construction man is provided with more power at his controls, and if these controls reduce his effort and fatigue the output will be correspondingly high.

For example, in the past twenty years the operators' hourly wage has advanced roughly from one dollar per hour to more than three dollars per hour. During this same period the power made available to him has been increased from an average of slightly less than 95 hp. to a corresponding figure of 230 hp. Thus the labor cost on a single machine may have been increased three times, but this operator has now an extra 130 hp. directed by his controls.

Experts of the Bureau of Public Roads have examined closely this relation of road building costs to improvements in equipment. Their study indicates that if highway contractors today were using machinery and methods common in 1923 the output would be only one-half for the construction dollar of today. In other words, the improvements and advances in construction and road building equipment are enabling us to get twice the production per dollar spent on highway work.

This development is illustrated in the accompanying chart with figures prepared and released by the American Road Builders Association. Based on the item of excavation costs alone the unit price is considerably less today than it was in 1923 and there has been a slight decline since the war peak of 1942, during which time all other costs had been showing a steady increase. If there had been no improvement in excavating machinery or in the productivity of the labor-equipment units since 1923 today's costs for excavation would be about 3½ times as much as today's bid prices. Equipment is truly the key to construction progress.

EXCAVATION COSTS STABILIZED BY EQUIPMENT





RIPPER — Modern excavating tool

Excavation costs are reduced when solid material is broken up for scraper-loading. Process depends on a combination of weight and power. Important advances made with rippers mounted on today's heavy tractor.

FROM crude beginnings almost 25 years ago, the ripper has recently moved into a position of increasing importance in loosening material for scraper-loading. Further, much more is known today about ripping practice and procedure, aiding contractors in the effective use of this equipment. Lastly, ripping is a brute-strength process and only as equipment has increased in size (weight and power) has the operation become its present effective aid in handling everything up to solid rock.

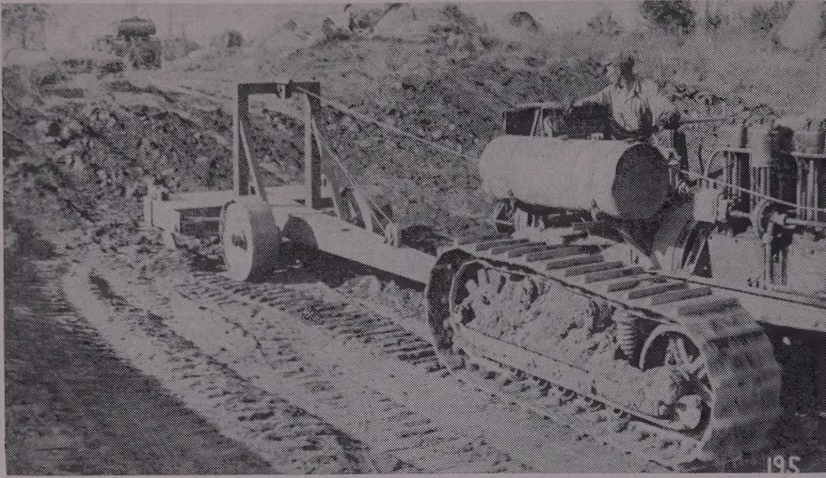
From the earliest days of construction natural material was always classed as either "loose" or "solid." As carrying scrapers developed, the economy of their operation was ex-

tended from loose material into types with more compaction. Loading took more power and this resulted in the pusher tractor, to reduce the time required and to handle tougher material. This procedure was extended to the limit with equipment called upon to reach the peak of its strength and power in order to avoid the cost of "bringing in the compressors." In these extreme conditions scraper edges tended to ride over the surface and the advantages began to taper off. At this stage everyone concerned with earth moving in large quantities realized the economic limit had been reached unless some means could be found to load the "unloadable."

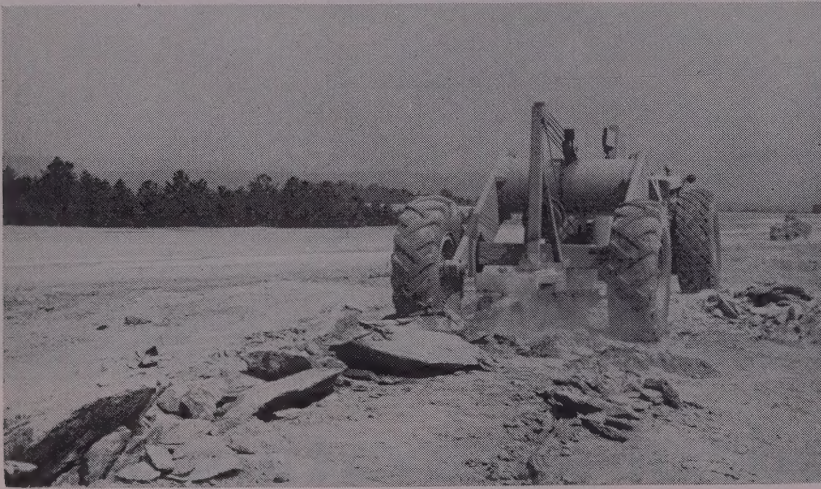
Development of the ripper, as it

is known today, is somewhat obscured in construction history. However, it is well recognized that Bob LeTourneau was one of the pioneers in building a towed unit which mounted from one to three heavy teeth in a steel frame supported by two heavy steel wheels. (See picture top of next page). By 1931 this forerunner of the modern ripper was being used on one of his contracts to extend the construction highway into the site of Hoover Dam. This gives the ripper a Western ancestry, at least in one of the family branches. Others were undoubtedly making similar units, and during the early years they were usually single, shop-built machines designed for a particular job.

Some years later this same principle was modified into the cable-laying plow. This was basically the same single ripper tooth which was hollow to permit the threading of a telephone or power cable that was laid as the tooth moved through the ground.



HISTORY was made by this early type of towed ripper. A LeTourneau model of 1933 is shown being pulled by a 60 Caterpillar, gasoline engine powered working in decomposed granite.



ANOTHER chapter in ripper history is this first unit to be mounted on rubber and pulled by a rubber-tired tractor. Weight is important in keeping the ripper teeth at effective depth.



ADAPTED from early rippers is this cable-plough which buries telephone or power lines. The cable is fed through the hollow tooth as the plough is pulled forward.

In the meantime, tractors were becoming heavier and more powerful. This, in turn, extended the use of available rippers into making deeper cuts and into harder material.

Scarifiers were becoming common in connection with graders and as towed units. The purpose of a scarifier is quite distinct from the deep ripper and does not form part of this review.

The towed type of ripper grew up as the tractors advanced in size. It was always possible to extend the size of the ripper beyond tractor capacity. In fact, contractors who realized the economy of ripping were inclined to pile on the power until as many as three tractors were occasionally used to handle one ripper. Here again the limits of economy were approaching, since tying up three power units added considerable cost which was inefficient unless a large quantity of rippable material was found on a single job.

Just a few years ago the heavy-duty ripper was first mounted directly on a crawler tractor and the modern era of ripping had arrived. This final chapter was definitely linked to the increasing size of crawler tractors where not only the power but more important the weight on the ripper added its effectiveness to the convenience of the mounting.

Problem of material

The decision to rip is based on several factors, most of which represent unknown or varying qualities. First and most important is the material itself. Starting with loose sand, gravel without cobbles or normal soils that can be loaded without difficulty, materials become increasingly compact or solid to the point where loading is no longer possible. Added power is no longer the answer, and wear and tear on the equipment increases.

This is the point where the decision to rip is first encountered. With modern equipment this situation represents no problem and accepted procedure would be to use a relatively light, towed-type of ripper or a mounted unit on a medium sized tractor.

As the material increases in toughness three added factors suggest modification in equipment and methods.

The most obvious one is to reduce the number of teeth on the ripper from three to two, and finally to one. This is equivalent to increasing the power and adding to the penetration.

A further step is to add either a pulling or pushing tractor to overcome increasing resistance.

Long field experience indicates that any effort to increase speed is of no assistance or advantage in ripping. Natural material offers great resistance to movement because of high friction qualities and normal inertia. Hauling speeds of from one to not more than 1½ miles per hour have been demonstrated as most economical in power requirements and equipment.

Weight is a factor

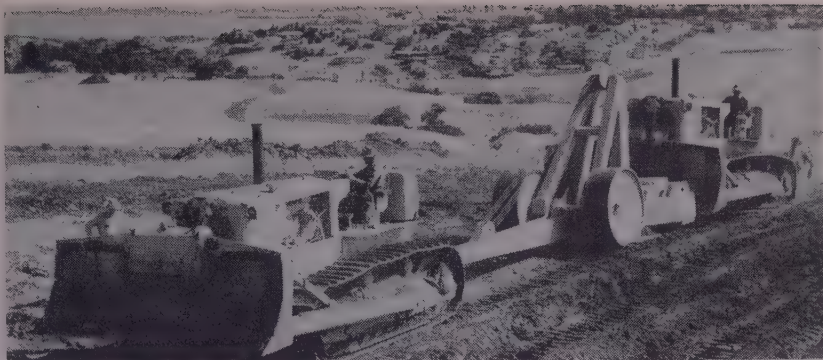
Assuming that the material has increased in difficulty to the point where a single tooth (mounted or towed) is being used the problem of penetration may develop. In this situation the power for pulling may be adequate but the weight on the tooth will not keep it in the material to the proper depth. The only solution here is one of added weight which, in the case of a towed ripper, can be solved by adding weight directly to the towed unit. In the case of a tractor-mounted ripper any solution is more difficult, up to the point of changing tractor sizes.

At about this point in the increasing scale of difficulties in ripping, the type and characteristic of material becomes increasingly important. If the rock includes natural cleavage planes, or is fractured, or has a definite crystalline structure it tends to break up more readily under the effort of the ripper. On the other hand, if it is massive, non-crystalline and without planes of weakness, ripping becomes rapidly more difficult and the material may require drilling and shooting.

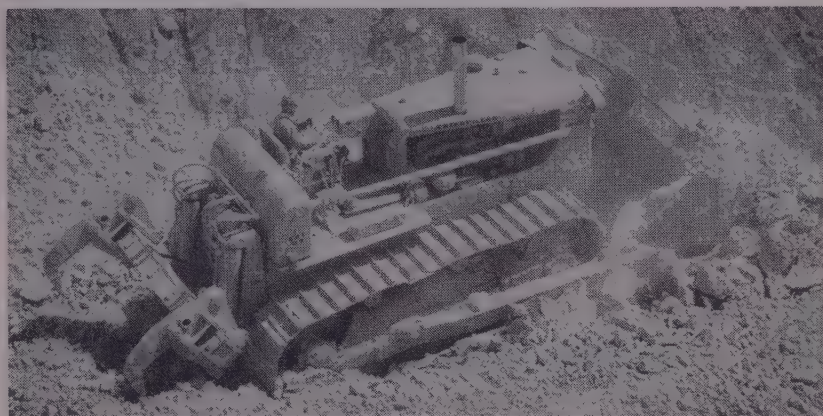
The boundary line in this situation represents a rather broad zone and only experience and actual field testing can produce the answer. In general terms, adding weight to the ripper and adding power will extend ripping farther into the zone of hard rock.

Dip of the rock

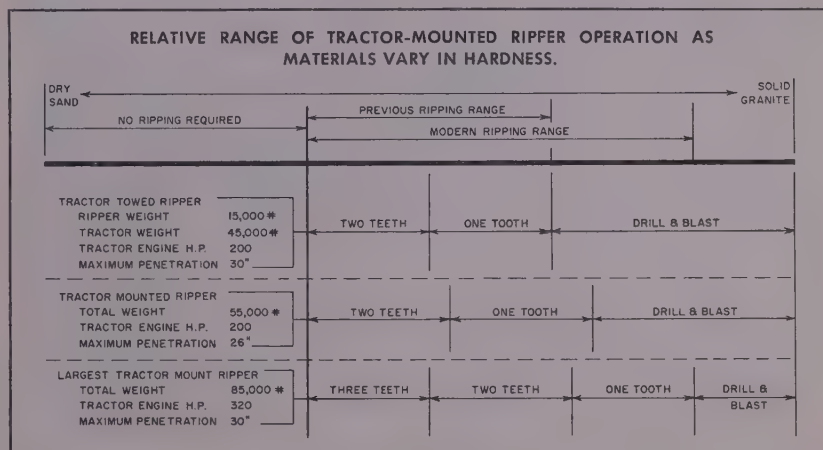
At this stage other factors peculiar to the individual job may become important. For example, if the laminations in the rock dip down in the direction of ripping they will tend to keep the tooth in the ground to proper depth. On the other hand, ripping in the reverse direction will develop poor penetration, with the tooth constantly riding out of the ground. Also with adequate weight and power the factor of traction may be controlling. If the surface of the rock is exposed, and



POWER from two Caterpillar D-9's is moving this 54,000-lb. ripper with a single tooth. When a contractor is willing to put this much operating cost into ripping, its value is obvious.



IN THE LIMESTONE quarry of a cement company, this combination bulldozer and tractor-mounted ripper represents the modern unit for moving rock efficiently.



AUTHORITIES on field practice and performance developed this chart to show schematically the ripper range of differing weights and mountings. Limits of range are subject to extreme variation.

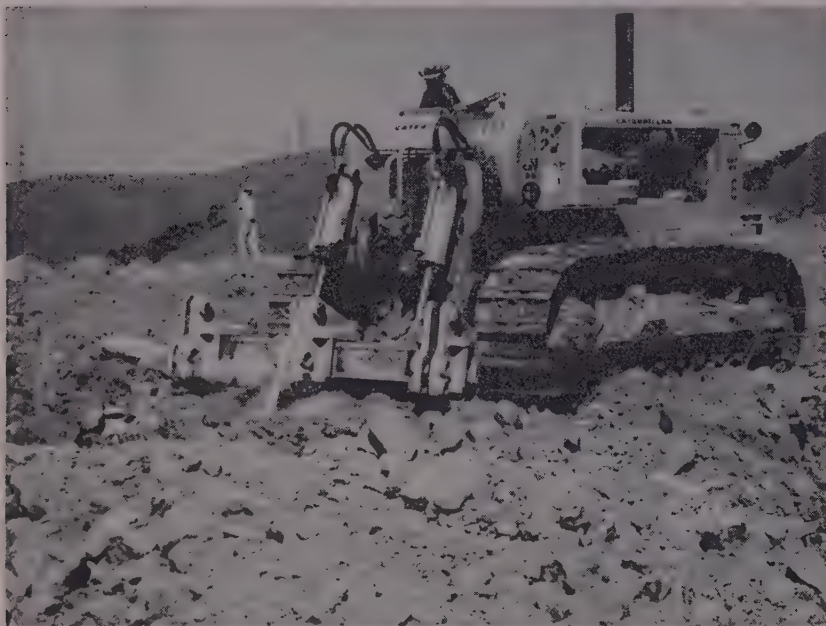
the going is tough crawlers may not develop efficient traction and possibly a rubber-tired tractor may prove more effective.

Given proper power, weight on the ripper, and traction, there appears to be almost no limit to rock which can be broken up by this method, at least compared to material which was thought to be suitable a few years ago. However, all of these factors must be

in balance and if any one is out of balance the success is doubtful. For example, with a well designed ripper tooth and sufficient traction and power, if the weight on the ripper is inadequate the procedure will be most disappointing. In the same way if any of the other factors are below par the contractor will be disappointed. These situations are not a reflection on ripping as a construction



RIPPER SIZE is limited only by the economic factor of power required. This 34,000-lb. giant handles a 60-in. maximum depth with its center tooth. It was designed to take the pull from six D-8's, if that much power was necessary.



WEIGHT on the teeth and power to pull them is the key in ripper effectiveness. Largest size of modern tractors provides these elements making possible major advance in ripping.

tool, but a failure to remember that all of the factors must be properly balanced.

Replacement and maintenance

One of the questions most frequently asked by those who are relatively new in the use of ripping is the cost and the problems of maintenance. In general, ripping service is no harder on a tractor than any other normal use. Today, the design, strength and type of steel used in rip-

pers reduces breakage to a minimum that does not need to be considered in the cost elements. Only one operation caution must be impressed upon the operator and that is the essential matter of getting the ripper out of the ground before making a turn.

As to wear, it is practically all concentrated on the removable point at the tip of the ripper tooth. Of course, it is possible to have hard facing material placed on this wearing surface, both originally and as a maintenance

operation. On the other hand, contractors most experienced in this procedure find that it is cheaper to wear the point down to a minimum and then remove it and consider it as expendable. Labor and materials required for rebuilding the point represent a higher cost than the new tip. This replacement rate in heavy going, obviously, is rather frequent and these tips may not last longer than one and a half hours, but their cost must be balanced against the overall advantage of the operation.

Cost comparisons

Any discussion of costs leads into many difficulties and up several blind alleys.

Ripping costs, in themselves, are of no significance unless they are compared to costs which would be required without ripping. Assuming the ripped material is in such a condition that it can be loaded by scrapers, the ripping costs can be balanced against the expenditure for drilling and shooting. Tractors required for ripping need not be charged entirely to this operation since they are frequently available for pusher service and bulldozing.

A tractor mounted ripper, if adequate for the job, will involve only the additional cost of this auxiliary tool plus the replacement of the teeth.

On large jobs where a heavy yardage of material would appear to be rippable, field testing might be justified in the use of one of the heavy-duty towed rippers which can be handled by one or more of the largest size crawlers.

In conclusion, the ripping of natural materials has become an important tool of the construction industry. It has a long and successful history, with several recent developments which will extend its usefulness. Many contractors have not used this tool up to its potential, and it deserves consideration on many jobs as knowledge and technique expand.

Rules are difficult and every job represents a peculiar and individual problem. There appears to be almost no limit, within reason, to using this procedure and contractors will find it profitable to consult the growing number of experienced men among the manufacturers of tractors, auxiliary equipment and the distributors of construction equipment.

Much of the material for this article and the pictures were obtained from Ken Park, consultant engineer of Peterson Tractor & Equipment Co., San Leandro, Calif.



Cement stabilizing at high speed

Equipment selection and efficient operation are key to fast schedule for highway project on Washington's Olympic Peninsula. Contractor selects 1,000-ft. sections as unit for putting down 5-in. base.

WHAT MAY BE a preface to speedy, excellent roadbuilding under the new Federal Aid highway program has been demonstrated on Washington's Olympic Peninsula by J. D. Shotwell Co., Tacoma highway-building contractor. Using a matched team of cement-stabilization equipment to develop high production, Shotwell blazed through a 10-mi. project on U. S. 101 near Forks, Wash., finishing well ahead of rains which might have been disastrous if slower methods or equipment had been used. Production quotas of up to a mile of completed cement stabilization per 8-hour day, in a strip 13 ft. wide, were met with ease.

Contracting agency for the project was the U. S. Bureau of Public Roads, with supervision from its Portland district office. Because the portion of Olympic Peninsula covered by the highway is federal forest land, highway construction is a function of the national, rather than the state, government. Cement stabilization of the upper 5 in. of sub-base material was specified for two prin-

cipal reasons: (1) to reduce the plasticity index of fine material adhering to sub-base rock, and (2) to build a stronger, more durable base at low cost.

In designing the highway, Bureau engineers settled for nothing short of modern requirements. The base course, including the upper 5-in. cement-stabilized portion, is 16 in. thick. It rests on a positively drained subgrade compacted to high density. The gravel base course, consisting of 3-in.-minus rock, is 38 ft. wide. Topping this is a 3-in. mat of high-type asphalt concrete 24 ft. wide, with

a full-width, 38-ft. plant-mixed section of binder-course material which forms 6-ft. shoulders on either side of the riding surface. These shoulders are sealed to resist intrusion of moisture into the base.

Planned against the rain

Installation of the granular base, along with cement-stabilization treatment, represented one of the most critical portions of the Shotwell contract. Probably no area in the nation is as vulnerable to rain as Washington's Olympic Peninsula, so this operation above all others had to be timed right and well managed. By moving the stabilization along at rates up to 60,000 sq. ft. per shift, Shotwell changed a rain-vulnerable job to a finished surface, ready for asphalt paving, while late summer weather held.

Standard production methods governed the manufacture and installation of the granular base course. In a pit 500 ft. square near the center of the job, the contractor set in a crushing-screening plant which reduced the pit-run material to acceptable 3-in.-minus. A 20 x 36 jaw crusher, a vibrating screen deck, 24-in. gyratory crusher, and a set of 40 x 24 roll crushers were used in that order, with all crusher units tied in



RUNNING the high-speed job: J. D. Stockwell, contractor of Tacoma, Wash., and J. P. McGarry, resident engineer for the BPR.



PROPORTIONED at 4½ % by volume, bulk cement was added through a Hercules spreader. Frequently, the spreader was hooked directly to the transport truck, bypassing the job storage silo.



FINAL mixing and blending operation of the two Seaman-Andwall Trav-L-Plants was done in a "figure-8" pattern which aided in reducing all inequalities in the mixture.



THREE passes of the Sta-Bilt Compactor were enough to secure the 95 % compaction on the 5-in. lift of stabilized base.



FEATURE of the Seaman-Andwall Compactor is its ability to make a complete turn under full power in a 21-ft. radius, without damaging the material.

closed circuit to the screening system.

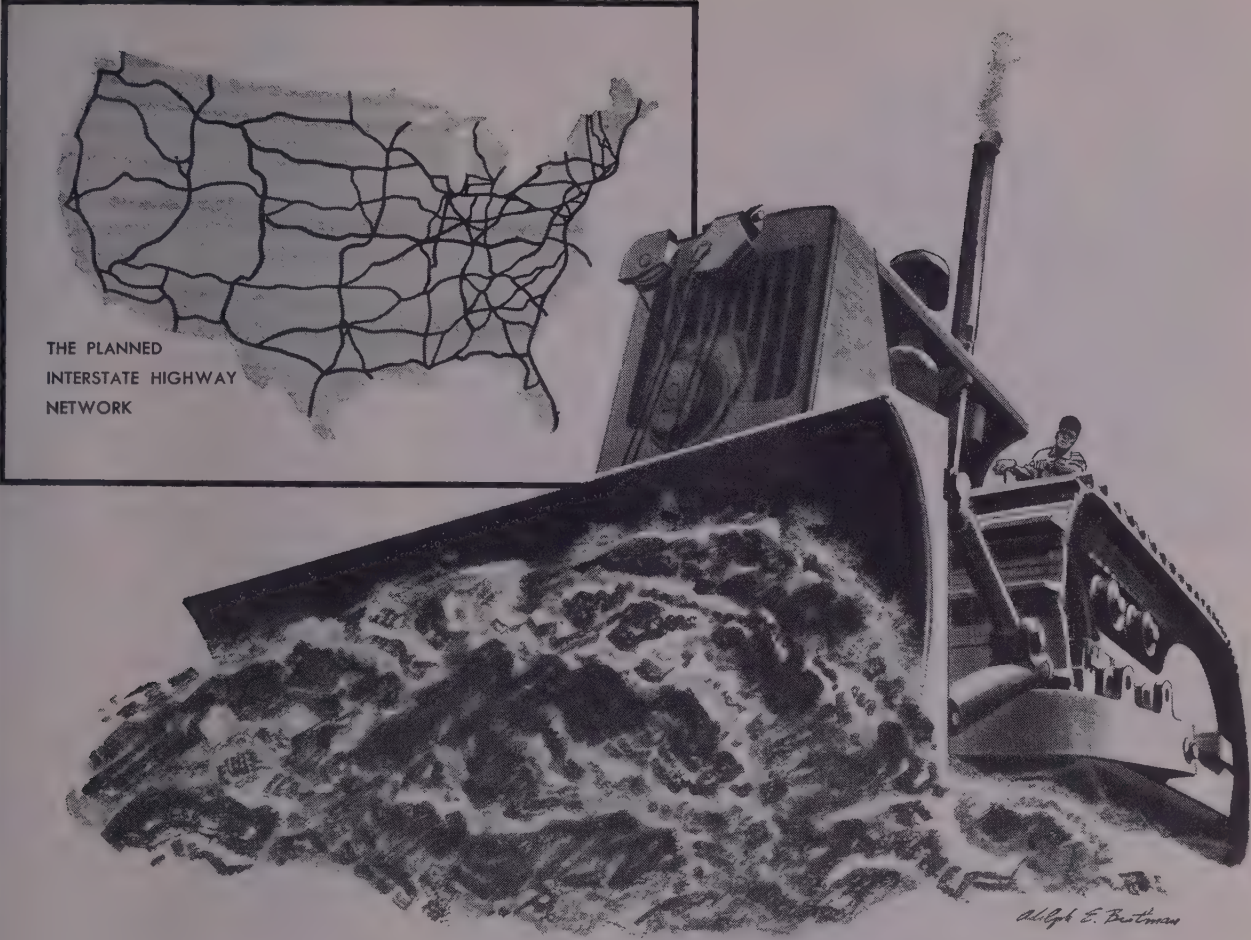
The material was truck dumped on the highway, bladed and watered, and rolled to develop compaction. The upper 5 in. of material designed for cement stabilization was even rolled down to blutop grade markers so that a perfect grade could be laid fast when the cement was applied.

Cement

To move the stabilization rapidly each day the weather held, Shotwell assembled men, equipment and cement in an orderly sequence. Construction sections 1,000 ft. long were favored, since that length represented the optimum between production on the one hand and excellence of finished product on the other.

Cement deliveries were arranged for by truck, and to save a long ferry haul, the trucks were routed around the 200-mi. one-way trip which passes through Aberdeen, near the south end of Seattle-Tacoma's great bay. A dependable cement hauling firm was engaged for transportation, and a 550-bbl. silo was set up at the job site for emergency storage during rains, or routine storage otherwise which was necessary to keep the job running.

Each 1,000-ft. construction strip was stabilized with speed. First operation was the mechanical ripping of the sub-base to 5-in. depth by the scarifier teeth of a motor grader. If additional moisture was necessary, which was not often, it was applied by sprinkler truck. In general the sub-base had been installed at the proper moisture content for best compaction, and this moisture had not evaporated. Had the sub-base gotten excessively dry, Shotwell would have



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MOISTURE of the surface was maintained during final rolling by applying a mist spray. After the final pass of a steel roller the surface was sealed with asphalt emulsion.



SURFACE of the soil-cement left by the mixing machines required only a small amount of grader work. This No. 12 Caterpillar is doing final blading behind the pneumatic compressor.

used the pump and metering equipment on one of his mixing machines to put in precise moisture amounts in a single pass.

The loosened, moist sub-base, still lying flat, was then covered with $4\frac{1}{2}\%$ of bulk portland cement by volume. To put this material down rapidly and accurately a Hercules cement spreader was used, often spreading the material by direct hookup between the Hercules machine and the truck transports. The direct unloading of cement by this method saved wasted hours in unloading or storing the material in the silo. And the cement went down so rapidly that transport trucks were not tied up appreciably on the job.

Mixing was the key

Next machines to pass through the work area were a pair of Seaman-

Andwall Trav-L-Plants. Proved on several other projects by the contractor, they had demonstrated their ability to blend cement with sub-base materials with speed and thoroughness. The two machines, working close together behind the Hercules spreader, first made a pass to cover the 13-ft. section. On a return pass, further blending was developed by steering a "figure eight" course through the section, each machine alternating through the uncovered portion of the curved pattern to deliver full coverage. A final return pass by the two Trav-L-Plants left the material perfectly mixed and blended, flat, and ready for rolling. Under average conditions the 1,000-ft. strip took less than 30 min. to mix.

Final work on the section was then done by Seaman-Andwall's newest companion piece of equipment for

stabilization: a 17-tire pneumatic self-propelled Sta Bilt Compactor. Built especially for the rapid compaction of relatively thick lifts of material, the unit took only three passes to develop the required 95% result on the 5-in. lift. The pneumatic compactor was used for the entire rolling process, including breakdown rolling of the loose material as well as the final compaction.

Driven by a Continental engine through a Warner automatic transmission, the machine did its work at speeds approximating 3 mph. Its eight tires in front and nine tires behind are arranged so that the rear units overlap the spaces left between the front tires. The roller was ballasted with sand to deliver 308 psi. of pressure per linear inch of tread on the rear tires. One of the most striking features of the new self-propelled compactor, according to the contractor, was its ability to make a complete turn under full power in a 21-ft. radius, without damaging the compacted grade.

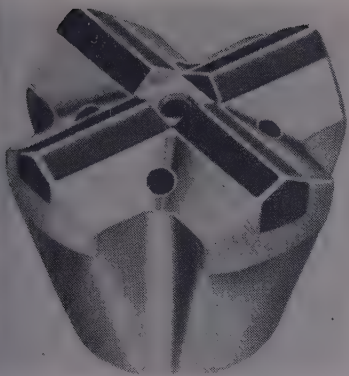
While final rolling was being done, light applications of water were put on in a misty spray, to prevent surface hydration or drying. The final surface was developed by tight blading the compacted sub-base material, and making a final pass by a steel-wheel machine.

The surface was then sealed promptly with asphalt emulsion to keep the moisture in the material during the most critical early portion of its hydration. Traffic, routed through the job with the help of flagmen and pilot cars, remained off the stabilized base for a period of seven days. Average time for completing the stabilization of a section 1,000 ft. long was approximately $1\frac{1}{2}$ hr.

The combination of good organization and a matched stabilization equipment line was instrumental in hurrying the project through its most critical phase. With stabilization out of the way, the project was not so vulnerable to rain, and Shotwell could then proceed more leisurely with the plant setup for installing two $1\frac{1}{2}$ -in. plant-mix paving courses and the cover seal coat.

Personnel

Bureau of Public Roads' operations were directed under the general supervision of F. E. Andrews, Portland Division Engineer, and by F. J. Dixon, district engineer, at Olympia. J. P. McGarry was resident engineer in charge of field work. Shotwell's field operations were all under the personal supervision of J. D. Shotwell.



Ten years experience with the use of tungsten carbide bits

By **JOHN HUMPHREY**

Rock Drill Department
Ingersoll-Rand Company

IT HAS BEEN this writer's privilege to have ten years field experience with Ingersoll-Rand Co., much of the time spent on drilling problems associated with the use of tungsten carbide used as a drilling medium. The majority of this experience was gained in major mining districts and on large construction jobs, ranging from observing the sinking of the Mather B shaft (1946) to the early stages of the construction in Hells Canyon (1956). Some conclusions are now possible and they will be drawn without conscious prejudice, being mindful of the rebuttal to which almost any statement concerning rock drilling can appropriately be subjected.

For this paper I have drawn freely from wide sources of inspiration and have used as a guide and source of material previous papers which have been published on the subject.

Foreign and domestic background

The use of tungsten carbide tips inserted in rock bits was pioneered or perhaps originated in Germany about 1932. It was almost immediately adopted into common use by the Scandinavian countries. These countries used and continue to use to a

great extent the chisel (2 point) bits with inserts brazed into the slightly upset and slotted end of the steel. They assume the extra precautions in operation which the limitation of this method place upon it.

In the ten years of application covered by this writer, many types of connections have been placed in the field. However, there is a tendency at present to standardize on four connections. The type used depends on size of bit required, the ground or ore in which the bit is used, and the type of rock drill used.

1. SHOULDER DRIVE TYPE

This attachment has found wide usage with light jackhammers, drifters and wagon drills. This attachment is used to some extent on heavy wagon drills (4½ to 5-in. bore) with an adapter.

2. BOTTOM DRIVE

This attachment popularity has been revived to a great extent by the increased use of coupled steel in long hole practice and blast hole drilling with larger wagon drills and drifters.

3. TAPERED SOCKET CONNECTION

This type of connection has recently become very popular for use predominantly with bits under 2 in. in gage size. The use of a 5,000 brass shim between the rod and the bits is common practice. This connection is also popular in the usage of the one-use or throwaway steel bit.

4. SPLINE TYPE CONNECTION

This connection is used on large carbide bits ranging in size from 4 to 7 in. The connection is used in conjunction with drill rods having male and female API threaded couplings.

Design changes

In the past few years there have been many changes in the physical appearance of carbide bits. Recently, a substantial amount of work on location and number of water holes of the bit has varied from the one-center hole to as high as five front or face water holes. In most hard rock and heavy ground, variations of what is commonly known as the "A" face or deep-cut water channels are proving successful by allowing cuttings to wash away faster and lessen the secondary grinding which affects the carbide and gage life in the bit.

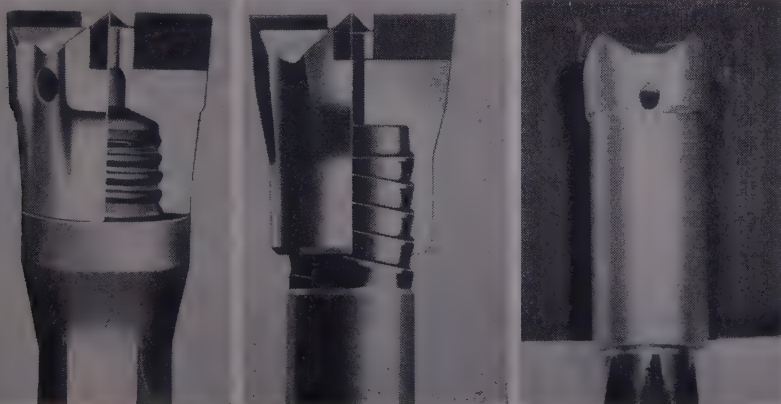
Use of box wrenches (bit detachers) is increasing with the natural result of less carbide failure caused from abuse in removing bits from the rods.

Considerable experimental work has been done and will be done with different grades of tungsten carbide, other than the grades that are currently standard. Problems of carbide friability and still more exact setting are increasing. It is probable that harder and tougher carbides will be used successfully.

Education at point-of-use

In ten years of constant progress in the use and development of carbide

BIT TYPES—Shoulder drive (left), bottom drive (center) and tapered socket connection (right). Each has advantages depending on the type of material and the type of drill.

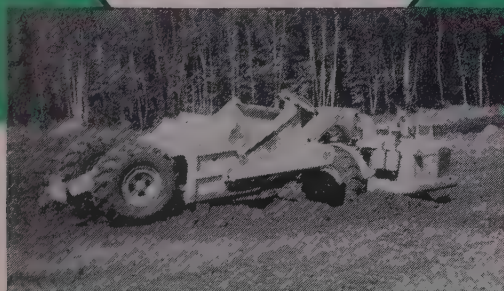
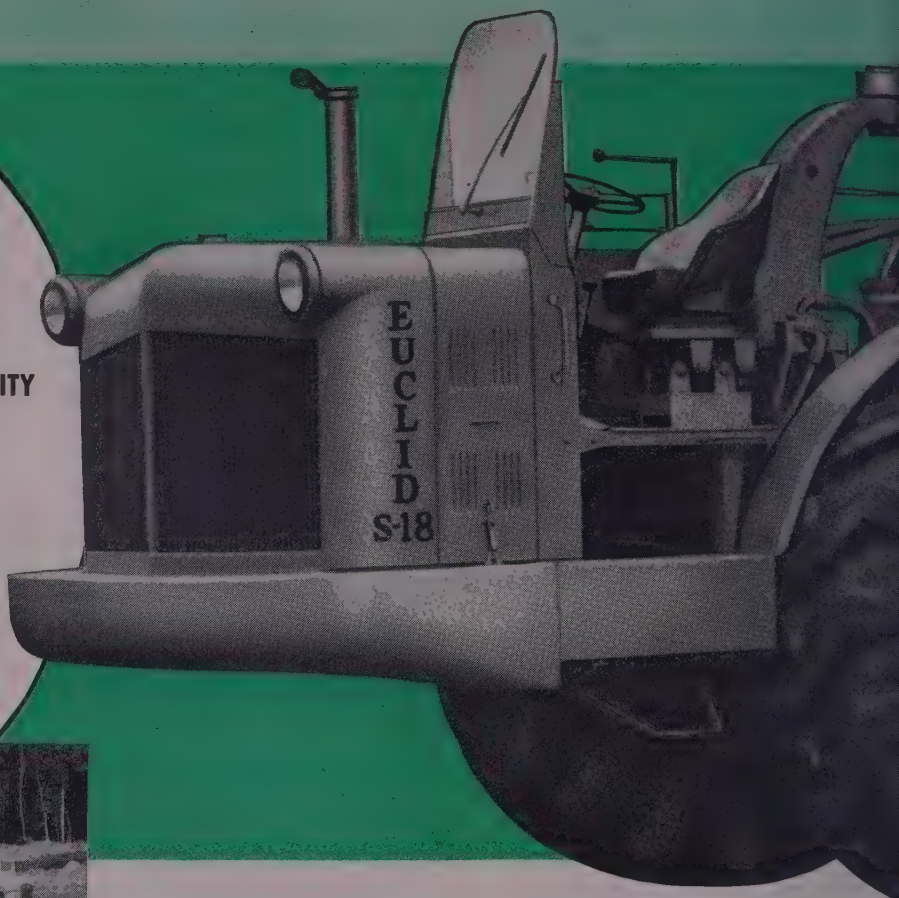


See manufacturer's detailed listing in Yellow Section for advertiser on following pages ➡

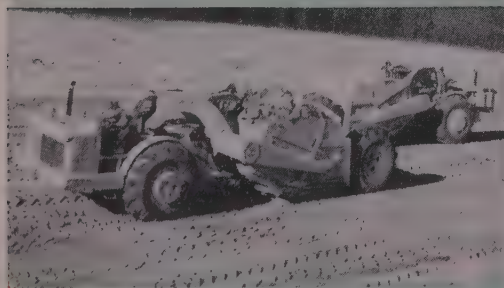
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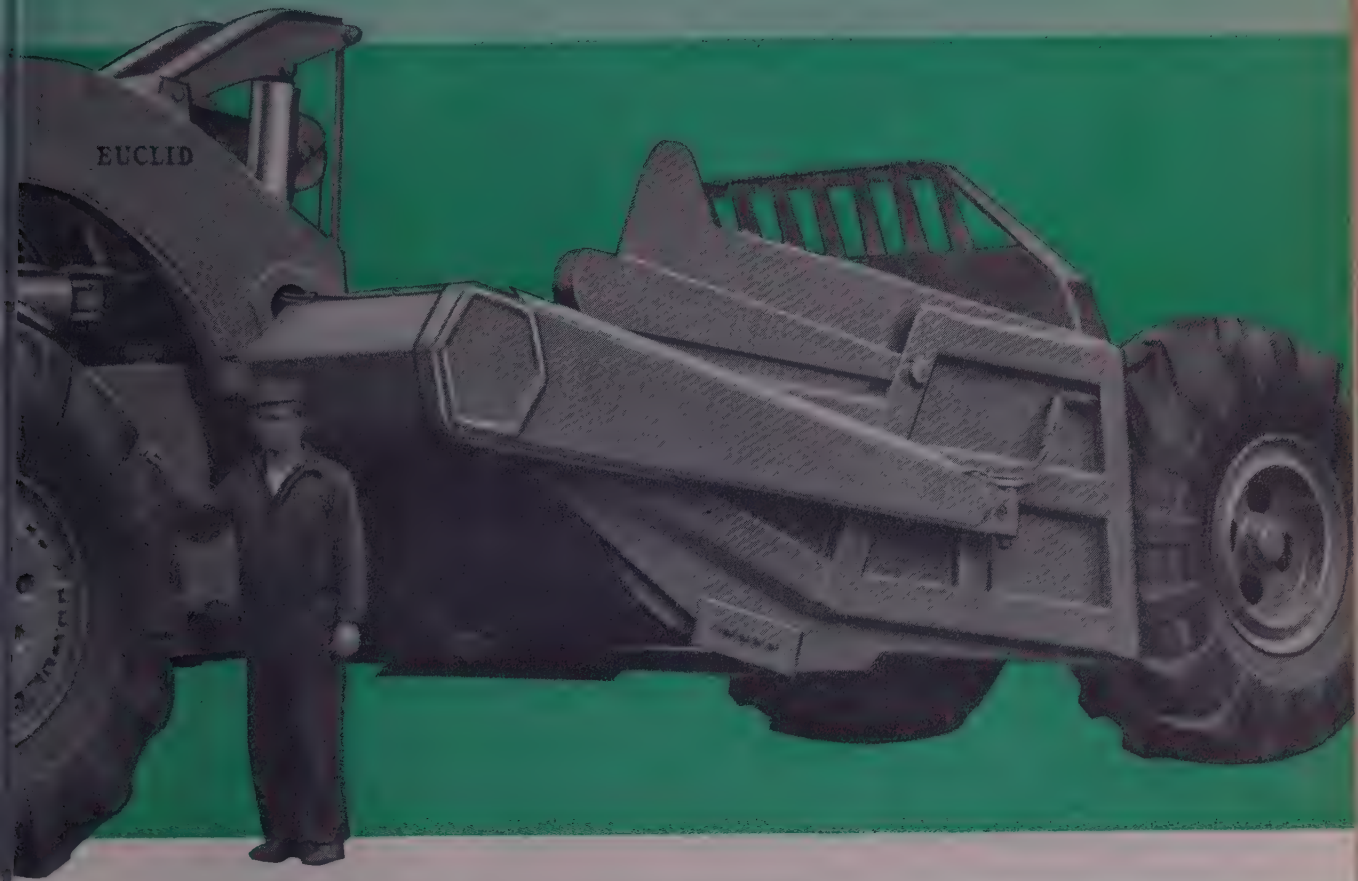
A big machine for big jobs, the Model S-18 Euclid Scraper has proved its ability to outperform comparable scrapers in productive capacity and low cost yardage. Now it has even more built-in performance with an improved power-to-weight ratio, and easier operation and accessibility than before. This new S-18 will surpass its previous high production records.

The improved 300 h.p. engine and new 4-speed Torqmatic Drive give still better performance in the lower speed ranges that are so important to efficient scraper operation. Simplified design of the engine with the Roots Blower reduces maintenance time and costs and gives more durability and fuel economy. With the 4-speed semi-automatic transmission there's a better range of speed and torque for every scraper power requirement . . . from the maximum torque needed for loading to the higher speeds used on the haul road.

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NORMAL SIZE bits (1 1/4 to 2 1/2 in.), in small numbers, can be reground on silicon carbide wheel.



A BOX WRENCH for detaching bits cuts down damage from improper methods of removal.

bits in many operations, administration and worker's education in their use has lagged.

Management's responsibility for correct application, accountability and life of carbide bits is paralleled by a responsibility for the worker's education in their economical use. The worker's reaction to initial use of the bit generally piques his interest and the educational phase is accomplished without difficulty. Most rock drill operators are quick to comprehend the time and energy saved by using the bit. Cooperation is thus assured, if for no other reason than the implied penalty of withdrawing the carbide bit from his use.

If carbide bits are to be used economically in the majority of operations, what is termed as the "attrition factor" must be held to a minimum. These factors, which reduce the average bit-life include: inept handling, continued drilling after re-sharpening is indicated, loss from damage in

transit, use with improperly fabricated or worn drill rods, theft, and loss in the hole.

These factors are emphasized as the rock drilled becomes softer and the bits are capable of increased footage from what they would have in harder rock. Proper supervision of the above factors can add almost 50% to the average footage of carbide bits, confined to jobs where their use has no supervision.

If the job has an orderly system of accounting for the bits put into the hands of the drill operator it makes the weak spots of the organization easy to find and correct. Often times it has been found that one or two drillers are responsible for the major share of premature bit failures.

In this writer's mind the most important factor in the efficient use of carbide bits is the regrinding or reconditioning phase. The time for regrinding varies with the rock or drilling conditions. A dull bit can be

detected by its physical appearances, and also by a marked reduction in drilling speeds. Current practice is pointing to less footage per regrind and subsequently more regrinds per bit. This method has the two-fold purpose of allowing the maximum drilling speed that the rock drill will deliver, and also lessens the opportunity for the inserts to be torn from the bit due to dullness or loss of gage.

The method used in regrinding bits will vary in relation to the number of bits used, size of bits, and type of bits. Normally, where less than 25 normal-size bits (1 1/4 to 2 1/4 in.) are used, any pedestal or bench grinder is adequate, providing it will carry an 8-in. diameter by 1/2 or 3/4-in. wide grinding wheel at speed around 3,000 rpm. A silicon carbide grinding wheel is necessary.

In the past ten years manufacturers have constantly improved grinders made especially for reconditioning carbide bits. With machine grinding it is possible to recondition properly from 100 to 150 bits per shift. Ingersoll-Rand has wall charts available showing grinding procedures in steps which are of assistance to the bit reconditioning shop.

A very important factor in bit life is the condition of the rods on which a bit is used. Often service personnel are consulted on bit troubles and upon investigation find the trouble is due to worn or improperly made threads. This condition can be changed only by having proper threading equipment and checking every rod with gages.

Some premature failures of bits are due to strippage. There is no doubt, the reason for many jobs adopting tapered or threadless connections is because of loss of considerable life in a carbide bit due to premature thread strippage. In some rock, bits are prone to run tightly and loose on the connection. Many jobs have corrected this problem by bringing rock drills up to an excellent state of repair and checking their rod fabricating shops.

In conclusion, we can expect even greater progress during the next ten years in the development of better carbide bits and improved techniques in drilling practice. This progress will probably to a great extent center around larger rock drills which will be capable of utilizing large carbide bits and drill deeper holes.

For valuable assistance in making this paper possible appreciation is expressed to R. W. Adamson, Ingersoll-Rand Company and to Ingersoll-Rand's technical staff.

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See manufacturer's detailed listing in Flow Section

Asphalt plants feature portability

Modern asphalt plants must combine the ability to produce a quality mix at a high capacity with a design that permits fast dismantling and moving within legal highway load limits.

DEPENDABILITY, speedy delivery, high mobility and high productive capacity are some of the qualities that must be built into modern asphalt plants to satisfy demands of highway contractors. They want a plant that is highly mobile, easily dismantled and set up with lowest possible cost in time and money, completely dependable delivering a continuous supply of uniform mix day after day, with low initial cost, low cost of maintenance, and high productive capacity.

Competitive bidding on jobs means cutting the profit margin to the bone in many instances. A short downtime can mean loss of profit on the entire job. The asphalt plant **MUST** deliver a uniform mix and lots of it in a hurry without shutdowns. It must be ready to produce with a minimum of set-up time, and must be designed for simple, rapid dismantling when the job is finished. Portability is a key factor in contract bidding.

When the contractor gets the job, he wants to assemble equipment quickly, and disassemble quickly at the conclusion of the job. Working with a time limit on construction, the contractor is committed to complete every job under a certain amount of pressure. Reliance on a plant that he

By **CECIL A. GORDON**

Field Service Manager
Road Machinery Division
Standard Steel Corporation

knows will deliver the mix in the amount and time specified relieves him of a good deal of concern on a job. The new asphalt plants (some called semi-portable, portable and "package units") can be handled easily with a good $\frac{3}{4}$ -yd. crane. Completely portable units have been introduced that can be set up and disassembled without a crane.

Factors in site and setting

Detailed advance planning is the first and perhaps the most critical operation in locating a site for the asphalt plant and in properly setting it up. The location of the plant depends on two obvious factors: (a) the source of raw materials, and (b) the area where the asphalt will be used. The length of haul varies widely, and distances from job site as great as 30 mi. or more are not unusual.

Preparation of the site in advance according to a well thought out plan for erection is the key of an efficient move to a new location. The grade of the property must be prepared for the requirements of the equipment,

and it should be accomplished before any machinery is moved in. If different elevations are required, the grades should all be in shape and the footings made ready. Railroad ties or timbers or mud sills may be satisfactory for temporary footings where only a relatively short period of operation is required.

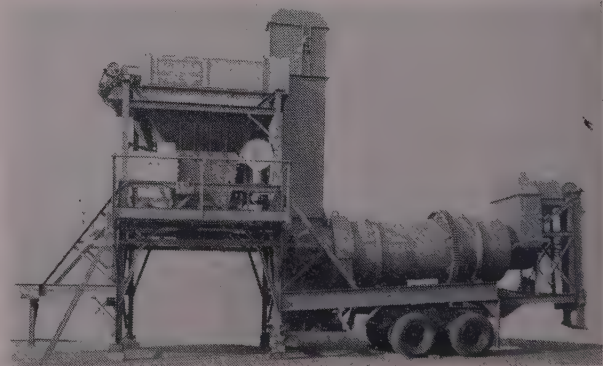
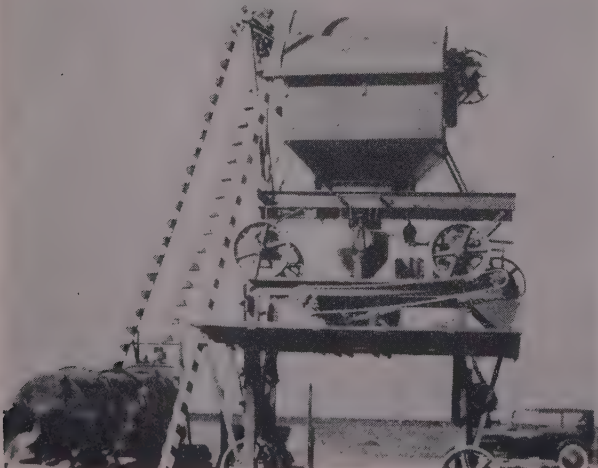
The plant must be level otherwise there will be unequal strains throughout the unit. Depending on the need for ramps or other special grading, a bulldozer or blade can usually accomplish the grading work in a few hours.

Another consideration in locating the plant in relation to its site is the direction of the prevailing winds. The plant should be set so that dusty material is carried away from the operators. Also, generators should be placed slightly away from the plant and in a position so that dust and dirt will not be blown into them.

Moving the plant

Transport of the semi-portable and portable asphalt plants over highways presents little difficulty to the contractor. Locomotive-type boilers, because they are tall and clumsy to handle, had caused some trouble in the past; however, the use of hot oil heaters due to their compact design has eliminated this difficulty. Also, the heaters are easier to use, cleaner, and require no water. State highway restrictions disallow moving machinery more than 9 ft. wide farther than 50 mi.; widths be-

PROGRESS in asphalt plant design is shown by these two pictures. Vintage of the old plant is indicated by the touring car and steel wheels. Apparently there was not much concern about safety or dust control in those years. Modern design, by contrast, shown by TM Mobile Mixer, features portability and 1,500-lb. capacity.



tween 8 and 9 ft. can be moved after obtaining a permit.

In a speedy move of a 4,000-lb. Standard Steel asphalt plant from Red Rock Canyon to Edwards Air Force Base, a distance of 45 mi. via state highways, the plant was moved over back desert roads, clipping 20 mi. off the indicated distance between points. This was possible due to the light weight and compact design of the semi-portable unit.

Proper scheduling of equipment for loading and correct order of arrival at the new plant site is essential for efficient movement and assembly.

The method of feeding is the first point to consider in moving and setting up at a new site. What will be the method of feeding—tunnel, bulkhead, bin arrangement, etc. Depending on this factor and whether a conveyor or cold elevator is used, the dryer can be located. Then, the mixing unit is established in relation to the dryer. The feed setup should be established before the plant is moved to the new location (except if a bin arrangement is used). Establishment of the tunnel or bulkhead may require considerable grading, building of a ramp, etc. It should be considered a separate phase of the moving of a plant, a different operation.

Although some new completely portable mobile mixers can be moved without the use of cranes, the use of a good $\frac{3}{4}$ -yd. crane on larger plants will more than pay for itself in set-up time. The small details of connecting pipes, motors, electrical cables and stringing belt conveyors take up a good part of the total set-up time. Flexible couplings in every location are considered very desirable as their use cuts time to dismantle and to erect.

Alignment of component parts in relation to one another is extremely important. The center line of the elevator and the center line of the dryer are reference points in erecting the plant. Whether feed conveyors should be at right angles or straight on depends on space allotted for the plant.

Maintenance of the plant

Upkeep and maintenance on modern asphalt plants presents no more of a problem than on any sizable piece of moving machinery. Maintenance on the batch type semi-portable plant is considered negligible by many contractors and operators. Only normal care in lubricating the critical parts is needed. Daily greas-



CRITICAL CHECK POINTS in preventive maintenance for asphalt plants are the blower and cyclone. Uneven or unusual wear on the blades causes vibrations to be transmitted back to the motor.

ing and oiling, examining critical sections of the plant for wear sums up the routine of checking out the plant each day.

Maintenance on crushers or other large pieces of earth-moving equipment is thought to be higher per dollar invested than on asphalt plants. More failures are due to faulty lubricating than to any other single factor, many operators believe. If the wrong grease is used in a bearing, the bearing can lose the grease, the moving part can lose the bearing and a plant shutdown is imminent.

Less maintenance is usually needed on the conveyor feed than on the elevators or bucket line feed system. Less metal-to-metal contact is experienced and an even flow results. Check points for preventive maintenance on asphalt plants include:

(a) Worn tips and shanks on mixer—It is poor practice to "economize" on tips and shanks. Only top quality parts should be considered. Also, check mixer liner for wear as aggregate pits containing highly abrasive materials may cause faster wear.

(b) Elevator chain—Check for wear of links and for misalignment, counter pins and loose buckets.

(c) Screens—Check for wear and blinding. They should be cleaned once or twice a week where aggregate is uniform; oftener where aggregate size varies.

(d) Dryer—Watch for burning in top of fire box. Fire may be thrown back in the dryer and cause lifters to warp. Dryer burners should be set at proper angle for efficiency.

(e) Cyclone fan—Air efficiency drops throughout the system if this unit is not operating correctly. Check the blades for wear. If wear is uneven, an out-of-balance condition occurs setting up vibrations transmitted to the bearings and to the motor; down draft in the dryer is cut and efficiency of the dust collector is lower.

Scheduling on a job

Capacity of the asphalt plant and of the lay-down crew govern the scheduling of black top production. The lay-down crew should be balanced and equated to plant capacity. The hot plant should be in continuous operation as opposed to starting and stopping for greatest efficiency. Because of a minute's delay in arrival of a truck, the plant may be forced to start shutting down. It is better to have the plant busy with enough trucks (although it may mean a few extra trucks on a job) than to risk shutdowns throughout the day.

One contractor plans that his semi's, carrying 18 tons per load, should be spaced a mile apart on the roadway on paving jobs. Even at this, the asphalt plant tends to gain on the trucks coming in, a tribute to the increased capacity built into the newer portable plants. Batches are made so that an exact number of truck loads can be filled.

CASE HISTORIES OF PLANT MOVES

1—The Basich Company, San Gabriel, Calif., presently operating Standard Steel 3,000 and 4,000-lb.

The Engineer's Field Report

CASE HISTORY

RPM Automotive Grease
PRODUCT

Camillo Corporation
FIRM Monrovia, Calif.

Wheel bearings in "perfect" condition on trucks hauling 28-ton loads up 10% grade



This is one of six rebuilt Macks owned and operated by Mr. A. A. Camillo, Monrovia, California. The trucks are used to haul sand and rock from pit to bunkers where it is made into ready-mix concrete. Each truck carries 20-yard loads (about 28-30 tons) up a 10% grade and averages 50 loads per day. All six trucks use RPM Automotive Grease to lubricate chassis and wheel bearings. Since using this grease the company reports inspections showed all wheel bearings in perfect condition with no sign of wear—not a single bearing replaced during this time.

FREE BOOKLET, giving complete information on RPM Automotive Grease, will be sent on request to Standard Oil Company of California, 225 Bush St., San Francisco, California.



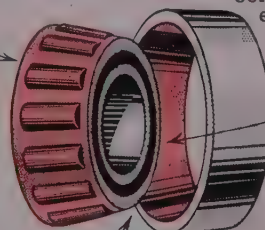
TRADEMARK "RPM" REG. U. S. PAT. OFF.

FOR MORE INFORMATION about this or other petroleum products, or the name of your nearest distributor, write or call any of the companies listed below.

Why RPM Automotive Grease protects bearings under all conditions

sticks to all bearing surfaces...feeds slowly and evenly

stays on, maintains proper consistency even in freezing cold or extreme heat

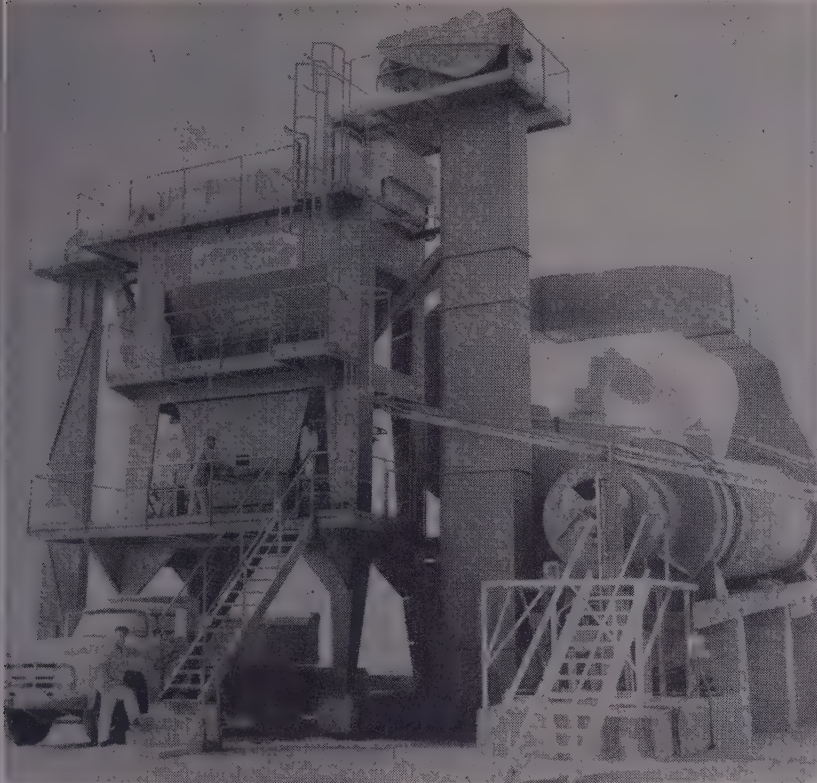


provides a tough lubrication film that protects against heavy pounding and overload pressures

STANDARD OIL COMPANY OF CALIFORNIA
225 Bush Street • San Francisco 4, California

THE CALIFORNIA COMPANY
P.O. Box 740 • Denver 1, Colorado

STANDARD OIL COMPANY OF TEXAS
P.O. Box 862 • El Paso, Texas



CONTRACTOR DEMANDS have resulted in this semi-portable plant of 6,000-lb. capacity. It can be easily disassembled and transported over state highways with a minimum loss of time.

semi-portable asphalt plants has moved the larger plant an average of two times a year for the past 10 years. It is currently working at Edwards Air Force Base on rehabilitation of the road system, hangar jobs, work on auxiliary roads, landing strip aprons, parking lots and other work near aircraft and rocket testing facilities. The haul varies widely for this work, the minimum being 3 mi. and the maximum 20. Before the Edwards Air Force Base job, this 4,000-lb. plant was working at Red Rock Canyon.

Improvements have been made on this plant with the addition of automatic batch unit, a Standard SH low pressure burner, hot oil heater and a Standard Steel dust collector. The move from Red Rock Canyon to Edwards Air Force Base was completed in two days (the plant itself was moved in one day). Early one morning, equipped with a truck crane, three low-beds and a high-bed, Basich picked up unbolted sections, loaded them on the trucks and dismantled the major components in one day. The day before was spent in loosening pipe connections and unbolting parts.

Basich have set up asphalt plants in tandem, working from the same stockpile at Blythe, Calif., on a state highway job. Tandem dryers were

used on a project at the Navajo Ordnance Base near Flagstaff, Ariz., where cinders were very wet.

The 4,000-lb. plant, while at Tucson, Ariz., in 1944 shared in the building of the first airfield to handle B-29's. Landing strips were all concrete but aprons and other auxiliary work were asphalt.

2—Massey Rock & Sand Co., Palm Springs, have averaged 50-60 tons per hour from a portable TM Mobile Mixer. The work was done at Desert Hot Springs on a commercial job, and a very dry, ideal aggregate was available. Their operation at Palm Springs (Garnet), Calif., is one of the most efficient in the West. The bulk of material to the hot plant is stacked over their tunnel by a conveyor directly from the rock plant. It gives a very low priced aggregate at the hot plant. The arrangement is unique; a 90-ft. tunnel with six gates has material conveyed to it. This all-natural-gas plant is an excellent operation for producing low cost mix.

3—Industrial Asphalt, the world's largest commercial asphalt paving materials producer operating 20 plants in California, moved a 4,000-lb. semi-portable plant a distance of 500 mi. from Ely, Nevada, to Sun Valley, Calif., in 1½ days. Peak production with a semi-portable

6,000-lb. plant was attained at the Highland location when output reached 287 tons per hour. Maintenance has proved to be no problem; however, Industrial believes that the foresightedness and ability of the plant crew is the overriding factor in preventive maintenance. Even the best constructed plant in the world can fail to come up to rated performance if the operators are improperly trained and lax in their jobs.

4—The Griffith Company, Bakersfield, Calif., have moved a 4,000-lb. plant 200 mi. from Saticoy to Lemoncove, Calif., starting on Monday and completely finishing the job on Friday of the same week. In one day the major plant structures were dismantled—the hot elevators, screens, bins, mixing unit, legs, dust elevator, etc. In 8 hr. these were taken apart and set on the ground. In 2½ hr. the yard was cleared of the main unit; cyclone and dryer came down the following day. In this move, four trucks made the haul with the use of a ¾-yd. crane. Actual plant dismantling time involved no problems. At Saticoy, the plant produced for the naval base at Pt. Mugu, in 1948; it was moved out and back again. About five moves have been made in the past 8 years, no one of them short of 150 mi. Production was 110,000 tons for 11 months of typical operation. At Lemoncove on a highway job, 49,000 tons were used, at an average of 964 tons per day. Minimum haul was 7 mi., the maximum was 27.

Conclusion

The asphalt plant manufacturers, aware of the need for easy mobility combined with high production and compact design, have given the construction industry asphalt plants that allow them to bid competitively on important jobs. These plants require only normal care and preventive maintenance. Despite their many automatic controls and safeguards, they all need a well-trained and alert operator to tend them.

Most plants can be moved efficiently without problems, if a well-planned moving schedule is thought out beforehand. The trend has been toward mobility in asphalt plants. Future demands will be for mobility plus higher and higher production rates. These developments in asphalt plant design follow the overall trend in the construction industry for faster production, high uniformity and a minimum of maintenance in all equipment.

See manufacturer's detailed listing in Yellow Section for advertiser on next pages ➡

**For any
Earthmoving
Job . . .**

Euclids

**A complete line of
off-the-highway equipment that
gets more work done at lower**



These "Eucs" have been the outstanding choice of contractors, mines, quarries and industrial users of heavy duty off-highway haulers for many years. Models with single drive axles have capacities of 10, 15 and 22 tons . . . engines of 128 to 300 h.p. . . 5 or 10 speed transmissions or Torqmatic Drive . . . standard or quarry body available for all 3 of these models.

Rear-Dumps with payload capacities of 10 to 50 tons

Utilizing the Twin-Power principle pioneered by Euclid, the 34-ton and 50-ton "Eucs" are designed for jobs where large tonnage must be moved. Two engines provide a total of 400, 436 and 600 h.p. . . each engine drives one of the drive axles through a separate Torqmatic Drive . . . hydraulic power steering and exhaust heated bodies of 24 and 32 yd. struck capacity.



For over 25 years Euclids have delivered "pl" performance on hundreds of the toughest jobs. Simple rugged construction, combined with advanced engineering that provides easy operation and maintenance, results in dependable work-ability. Wherever you see "Eucs" at work—on small jobs where one or two units maintain production or on big yarda projects requiring large fleets of equipment—you can be sure they are doing the job at lowest cost. Before you decide on any equipment for your present or future work, check the complete Euclid line. Your Euclid dealer will give you facts and figures on models that meet your requirements and show you why **Euclids are your best investment.**

Loader and Bottom-Dumps a high production team!



Bottom-Dump Euclids have struck capacities of 13, 17 and 25 cu. yds. and engines of 218 and 300 h.p. They provide fast non-stop dumping on fills, into drive-over hoppers or spreading in windrows through wide, full length hopper doors. . . top speeds up to 30 mph. The low, wide hopper is easy to load by shovel, dragline, loader and overhead hopper.

The "Euc" Loader, teamed with large capacity high speed Bottom-Dumps, can make up to 1200 bank yards per hour . . . makes shallow cuts up to 9' 6" wide, narrow to 48" deep. Belt width is 54" . . . powered by 245 h.p. engine . . . all loader operations are hydraulically controlled by puller tractor operator.

EUCLID DIVISION, GENERAL MOTORS CORPORATION, Cleveland 17, Ohio

your best investment



Overhung engine type Scrapers 7, 12 and 18 yds. struck capacity

Powered by engines of 143, 218 and 300 h.p., these scrapers are the best selling line in the industry. Advanced design of Euclid's hydraulic action, bowl and cutting blade provides fast, easy loading. The 12 yd. model has Torqmatic Drive . . . all have NoSpin differential and Euclid planetary drive axle . . . unequalled accessibility of power train and major components.

Four-wheel Tractor Scrapers

These 12 and 15.5 yd. scrapers have maximum stability for high speed hauls and rough roads. At 3:1 slope heaped capacity is 14 and 18 yds. 200 or 218 h.p. engine with 5-speed transmission powers the 12 yd. scraper . . . drive tires are 21.00 x 25 standard with 24.00 x 25 optional. The 15.5 yd. scraper has 300 h.p. engine with 10-speed transmission or Torqmatic Drive . . . standard tires are 24.00 x 25 with 29.5 x 25 optional. A 17 yd. bottom-dump trailer is interchangeable with this scraper.



TC-12 Twin Crawler

A completely new concept in tractor design and performance, this Euclid tractor has two 194 h.p. engines (388 h.p. total) with a separate Torqmatic Drive for each track. Changing from one speed range to another (top speed of 8.3 mph) or to one of the three reverse speeds can be done under full power. Available drawbar pull is equal to or greater than gross weight. Planetary drives can be serviced without removing track, frame or drive sprocket.



Twin-Power "Euc" Scraper

The Model TS-18 is powered by two engines with a total of 436 or 518 h.p. It is a one-man earthmoving crew . . . self-loads and works under conditions that stop other scrapers. Tractor has a 218 h.p. or 300 h.p. engine with Torqmatic Drive . . . scraper wheels are driven through Torqmatic Drive by a 218 h.p. engine. Tires are 27.00 x 33 with 33.5 x 33 optional. Heaped capacity at 3:1 is 21 yds.

Rear-Dumps, Bottom-Dumps, Scrapers, Loaders, Tractors

Euclid Equipment

FOR MOVING EARTH, ROCK, COAL AND ORE



Literature Review

An extensive number of valuable catalogs and handbooks are published each month by the manufacturers of construction equipment and offered without charge to interested readers in the West. Each issue of Western Construction carries several pages of brief reviews of literature which could be of use to our readers. Here for your convenience is a quick review of just a few of the outstanding publications made available during the past year.

HIGH STRENGTH BOLTING—

Practical working information on high strength bolts is provided in a 20-page illustrated booklet published by Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y. The booklet, HS-1, is a working guide for ironworkers in the technique of joining structural steel members. Sections are given to identification of high strength bolts and proper sizes, comparisons with machine bolts, use of hardened washers and installation practices. Data are provided on proper tightening, calibration of impact wrenches, air supply and inspection techniques. Joint and structure types to be bolted are discussed. Booklet includes tables of recommended torques.

WIRE ROPE SLINGS AND FITTINGS—

"Bethlehem Wire Rope Slings and Fittings," a 148-page illustrated catalog, was released by Bethlehem Pacific. The catalog illustrates and details all types of sling hitches in common use, including grommets, single-part, double-part, three-leg and four-leg bridle slings and braided slings, and provides tabular data with rated capacities for various rope diameters, lengths, body sizes, weights and loop dimensions, with fitting specifications for each. One section of the publication is devoted to swaged fittings and assemblies of both industrial and aviation types; another to wire rope and strand fittings. Two sections show the proper method of attaching wire rope sockets and how wire rope and slings should be lubricated and cleaned. Seizing and cutting wire rope ends, applying wire rope clips and caliper-ing wire rope also are covered. The catalog includes a detailed index and a numerical listing of slings described. May be obtained from any sales office of Bethlehem Pacific Coast Steel Corp., in Seattle, Spo-

kane, Portland, San Francisco, Los Angeles, or Phoenix.

COMPLETE TOOL LINE—A new 63-page catalog was released by Mall Tool Co., describing and illustrating its complete line of portable gasoline engine tools. Full details are provided on its line of chain saws, generators, land clearance saws; pumps, augers, concrete vibrators, troweling machines, and all types of accessories. The catalog also provides information on pneumatic chain saws. Catalog No. 32 may be secured from Mall Tool Co., 7725 South Chicago Ave., Chicago 19, Ill.

TREATED TIMBER PILES—An authoritative 66-page handbook was released by the American Wood Preservers Institute entitled "Pressure Treated Timber Foundation Piles." The handbook contains documented case histories and helpful information on pile driving, means of determining safe loads, solutions to problems of uplift and lateral forces, and protective devices for use during driving. Other sections relate to the application of building codes to pile foundations, specifications for selecting timber piles, the present standards for preservative treatment and the handling of test piles and loading. Job histories are presented having to do with design loads and inspection reports on the life of treated timber piles. The book is available to engineers and contractors interested in heavy foundations from the American Wood Preservers Institute, 111 W. Washington St., Chicago 2, Ill.

SPLICING WIRE ROPE—Detailed information on splicing and fitting wire rope, including sections on making a tuck, blocking and serving, and several types of splices, is contained in a 32-page book released by E. H. Edwards Co. Step-by-step photo-

graphs and drawings illustrate correct methods and include all of the details. Sections also discuss the handling of eight-strand ropes and the attaching of grommets. The handbook can be secured by writing E. H. Edwards Co., Butler Road and Industrial Way, South San Francisco, Calif.

WIRE ROPE HANDBOOK—A complete handbook of 190 pages in pocket size with convenient spiral binding covering every phase of wire rope and its uses was released by Macwhyte Co., Kenosha, Wis. This catalog discusses the characteristics of all classifications of wire rope, including galvanized rope, slings, assemblies, fittings and lubrication. Extensive tables and a glossary of terms concludes this valuable handbook. Referred to as Catalog G-16, second edition. The handbook is available from the company or distributors.

WIRE ROPE FITTINGS—A new 28-page catalog describing a complete line of fittings for wire rope and chain was issued by The Thomas Laughlin Division of the American Hoist & Derrick Co. In addition to extensive pictures of the various items, the catalog includes engineering data and charts for each of the many types of fittings. For example, dimensions, safety factors, and other information is provided on links, rings, shackles, swivels, books, and ring bolts. The Laughlin firm, one of the oldest in this business, was merged with the American Hoist & Derrick Co., in 1955. Copies of the catalog (950-1) may be secured from The Thomas Laughlin Division, Portland, Maine; or American Hoist & Derrick Co., St. Paul 1, Minn.

HANDBOOK OF STEEL PRODUCTS—Bethlehem Pacific Coast Steel Corp. has released a 44-page new edition of its catalog on "Bethlehem Pacific Rolled Steel Products." Information includes the size, weight per foot, and design properties of all the structural and bar size shapes available from the rolling mills of this organization in Seattle, South San Francisco, and Los Angeles plants. The handbook also includes a commodity listing of the wire produced at the Los Angeles plant and tabulations of nut and bolt products. The catalog is available from any one of the sales offices of the corporation in Seattle, Spokane, Portland, San Francisco, Los Angeles and Phoenix. Ask for Catalog 305-C.

(Continued on page 83)

LITERATURE REVIEW

(Continued from page 80)

CHEMONITED LUMBER—A 32-page booklet reviewing the process of Chemoniting lumber and uses of the treated product was released by H. Baxter & Co., 200 Bush St., San Francisco 4, Calif. The book discusses the natural enemies of wood, the value of chemical protection, and the particular qualities developed by this form of treatment.

AGGREGATE PRODUCTION—An entirely new addition of a 124-page book entitled "Aggregate Producers Handbook" was released for distribution by Smith Engineering Works of Milwaukee 1, Wis. Material in the book has been collected over a period of years by the manufacturers of Telsmith equipment for gravel plants and contractors. Contained in the volume, indexed for quick reference, is complete information on aggregates and aggregate producing machinery, including engineering tables and charts. Copies may be secured from the company by writing on your company letterhead indicating your position.

CONSTRUCTION HANDBOOK—One hundred pages of valuable information, published as a "Facts and Figures" handbook, is available from Pioneer Engineering Works, Inc., Minneapolis, Minn. This is the 11th edition of a pocket handbook which has become a standard for the construction industry. Among some of the subjects covered are specifications for aggregate, crusher settings, feeder capacities, data on earthmoving equipment, screens, tanks, gages of wire and an 8-page glossary defining common terms in construction work. The section relating to asphaltic materials has been substantially expanded from the previous edition. Copies may be obtained by writing directly to Pioneer at 1515 Central Ave., Minneapolis 13, or to any Pioneer distributor.

PRESSURE PIPE INSTALLATION—"Transite Ring-Tite Pressure Pipe Installation Guide" is a 108-page instruction manual for on-the-job use at the trench site issued by Johns-Manville, 22 E. 40th St., New York 16. The manual is a hand 4¼ x 8-in. pocket size with durable cover for long outdoor field service. It contains instructions for every

step from receiving pipe at the job to testing finished installations, and includes information on special situations, such as bridge crossings. It incorporates a comprehensive index to subjects and 100 illustrations.

MAINTENANCE TIPS—The Calcium Chloride Institute has a handy size 36-page maintenance booklet, "Maintenance Tips for Unpaved Roads." It was written to help maintenance supervisors and engineers to obtain best results from the use of calcium chloride on unpaved roads. Separate sections of the booklet deal with the various maintenance operations and specific questions and tables are included. A free copy can be obtained by writing to the Calcium Chloride Institute, 909 Ring Bldg., Washington 6, D. C.

52-PAGE OILITE MANUAL—An entirely new engineering manual has been released by Amplex Division of Chrysler Corp. Listed as the E-56 Engineering Manual, the 52-page book is thoroughly revised from previous years and contains complete details about Oilite products. Free copies are obtainable from Amplex Division, Chrysler Corp., Detroit 31, Mich.

CONCRETE FORM CATALOG—A new 32-page catalog illustrating and describing the Uni-Form Panel System of forming concrete is available by writing the Universal Form Clamp Co., 1238 N. Kostner Ave., Chicago, Ill. Well illustrated, the catalog points out the many features that provide the contractor with a method of forming concrete rapidly and economically.

SYMONS GENERAL CATALOG—A new 24-page general catalog has been prepared by Symons Clamp & Manufacturing Co., to present its concrete forming equipment. Detailed drawings and specifications are used to describe use of forms on high walls, heavy construction, battered walls and jobs using specific types of forms. Copies may be obtained by writing the firm at 4249 Diversey Ave., Chicago 39, Ill.

CRUSHING AND SCREENING PLANTS—A new Portable Plant Handbook was announced by Nordberg Manufacturing Co., Milwaukee 1, Wis. The handsomely bound brochure presents ideas for the design and construction of portable and

semi-portable rock crushing and screening plants employing Symons cone crushers and vibrating screens. Bulletin 238A contains engineering drawings for nine different types of crushing and screening plants. A specification sheet accompanying each drawing lists the equipment to achieve various plant capacities.

PIONEER CONVEYOR MANUAL—Detailed information concerning pre-engineered and job-engineered conveyors, belts and conveyor accessories, is contained in a 50-page catalog released by Pioneer Engineering Works. The fully-illustrated booklet includes data on features, capacities, and dimensions of complete conveyor units and their integral parts. Specification tables and diameters are provided as aids in customer selection, and a check list itemizes points to be considered in buying a conveyor unit for specific job requirements. Request Form No. 612, Pioneer Engineering Works, 1515 Central Ave., Minneapolis 13, Minn.

RICHMOND HANDBOOK—A complete run-down of the latest in job-tested concrete form-tying and anchoring methods is contained in a handbook published by Richmond Screw Anchor Co., Inc., 816 Liberty Ave., Brooklyn 8, N. Y. Containing 46 pages of information on the most up-to-date and economical concreting methods, the attractive 3-color handbook supplies essential data and drawings of procedures and devices used in concreting. Included are six pages of blueprints covering many aspects of form design and construction, and similar subjects. Many special charts and tables report on full statistical studies of pressures, loads and deflections in form design and give special information on fastenings and the properties of planks and timbers.

PORTABLE BATCHING PLANTS—Information concerning aggregate and cement portable batching plants is contained in a bulletin No. 2488 released by Blaw-Knox. The 41-page illustrated booklet includes data on features, capacities, and dimensions of portable bulk cement plants, aggregate plants, and one-stop plants. A check list itemizes points to be considered in buying a plant to meet specific requirements. Blaw-Knox Co., Construction Equipment Division, Mattoon, Ill.

See manufacturer's detailed listing in Yellow Section for advertiser on following pages ➡➡

11 rock-speeding PAYHAULER® TRUCKS star in seaway's biggest, single show!

**8 other International® rigs help move
2,451,000 cu yd of rock and earth
in \$14½ million lock construction!**

Eleven International "95" PAYHAULER trucks...because of their high speed, big pay-capacity and around-the-clock endurance...are playing the starring roles in the St. Lawrence Seaway's biggest, and perhaps toughest, single show!

The PAYHAULER units are sparking a demanding monthly production schedule of 120,000 yds of rock and 100,000 yds of common earth. The scene is United Waterways Constructor's \$14½ million contract of the upper Beauharnois lock construction and channel excavation near Montreal, Quebec.

International TD-24 crawler tractors, TD-14 Skid Shovels, and a "75" PAYSCRAPER® are also vital producers in the moving of the total required 1,461,000 yds of rock and 990,000 yds of earth. Lock completion is scheduled for December, 1958.

PAYHAULER units have also been moving most of the rock on a lower Beauharnois lock. On a similar shorter-haul rock job in the midwest recently, two identical PAYHAULER units maintained a production average of 2,400 cu yds per day!...And here on the seaway, with average 4,000-foot one-way hauls, PAYHAULER units' high speed, next-to-automatic Torqmatic brake control, and minute-saving, easy-to-heap big capacity are cutting cycle time to a minimum and bringing home maximum loads as well.

The rugged PAYHAULER units on the seaway job are standing up to the toughest test in their spectacular career. They're working around the clock, 5 days per week, hauling mostly rock but also proving themselves in wet, job-fouling mud and on slippery, water-soaked lock floors.

Success on the seaway and on other tough jobs the country over is proving International PAYHAULER units to be what construction men themselves asked for...a big-capacity, high-speed hauler with low downtime and operating costs. See for yourself. Try an International PAYHAULER unit on your job.

38 MPH SPEEDS keep three or four PAYHAULER units on haul road at all times. Hand-operated Torqmatic brake gives accu-

rate control for safe, high-speed travel on congested haul roads. TD-24 tractor spreads rock for fill at railroad diversion.



TON-SIZED ROCKS go up...then down into fill in 12 seconds. Two-stage hydraulic hoist provides full time power control. Hydraulic snubbing assures over-center dumping, gentles body return.



Modern trends in earth-mover tires

Keeping pace with improvements in heavy construction equipment, tire manufacturers are using three modern developments; (1) Nylon, (2) wide-base and (3) tubeless.

BETTER ROADS—so badly needed in 1957—were strangely enough a big bottleneck four decades ago in the World War I days of 1917. Rail embargoes on shipments to the Eastern ports clogged with war supplies for Europe forced Midwestern manufacturers to turn to the trucks of the day for over-the-road deliveries.

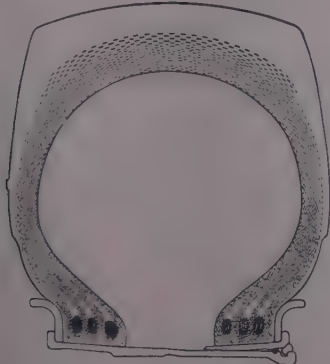
Lack of hard surfaced, intercity highways brought into limelight at that time this bottleneck on transportation. Difficulty encountered with the solid rubber tires on the trucks of that time directed attention of the tire industry to the then new type—the pneumatic truck tire, introduced by Goodyear a few years earlier.

Ever since intensive development work on pneumatic truck tires in the late 'teens, this aid to the transportation industry has been available with adequate cushioning, traction and other needed characteristics to match the requirements of vehicle design, whether for highway trucks or earth-moving machines.

The modern age of construction machinery, especially adapted to earthmoving on a large scale as required for modern dams, highways, airports, etc., goes back to the early 1930's when the self-loading scraper was developed in the West and large bottom-dump tractor-trailer units in the East. Both were on large pneumatic tires and rapidly became standard tools of the contracting profession.

Steady progress in improving

TUBELESS earth-mover type of truck tire mounted on a Tru-Seal-type rim adopted by the Tire and Rim Association in 1956.



By FRANK W. FOX

Truck Tire Department
The Goodyear Tire & Rubber Co.

vehicle load capacity, speed and hauling efficiency was made until World War II froze progress in design for the '41-'46 period. The first post-war machinery improvements were displayed at the Chicago ARBA Road Show in 1948 and the construction industry is now eagerly awaiting the lineup of machines for the "Big Road Building Crusade" of the next decade—scheduled to be unveiled in the same city this month.

The tire industry has not failed in making improvements in its products for the earthmoving machines; major changes in the past two to three years have brought the various types of tires used by contractors to the highest degree of working efficiency in history.

These changes can be summarized by just three words: (1) Nylon (2) Wide-Base (3) Tubeless.

Tires are now available incorporating these new features which are: (a) to translate the horsepower of the motors into travel; (b) to ward off the hazards of unimproved surfaces over which they pass; (c) to stand up under the huge loads of material; (d) to "float" the machines and their

loads over soft, slippery going; (e) to absorb the heat developed by the flexing action of high speed, continuous operation; and (f) to stay on the job without excess expense for repairs and service so as to pay their cost and return a profit to the owners. The current lineup of special tires of the so-called earth-mover type of the largest tire manufacturer now contains 125 items as compared with 48 items at the time of the 1948 Road Show. The range of sizes has not changed much, but the average original equipment size has changed since the popular models today are machines 25-50% bigger and heavier than the popular models of a decade ago.

1—Nylon—the man-made cord, stronger weight-for-weight than steel—is required by these modern machines, since the earlier tire cord materials—cotton and rayon—are not up to the job that is now expected of them. Nylon makes tires which are stronger with less thickness, bulk and weight, less heat build-up and free of deterioration from moisture which may get in through tread cuts. The durability of Nylon permits recapping many earth mover tires so that operators are able to get double life at an extra 50% investment in a new tread.

With all these qualities Nylon, the standard cord for the entire industry in earth mover, rock type and grader tires, makes them "the" tires for the machines that will build the highways of tomorrow.

2—Wide-Base Tires—Prior to the introduction of wide-base earth mover tires in 1955, the rims on which these tires were used were ordinarily about 70% as wide as the tire cross section. In the new wide-



ONE-PIECE drop-center type rims provide a simplified assembly adopted as standard by the truck and tire industries in 1955.





AN EARLY model bottom-dump tractor trailer unit on truck tires. Pneumatic tires introduced the modern age of earth-moving equipment. The

date was the early 1930's when the self-loading scraper was first developed for the use of the contractors in this Western region.

NEW WIDE BASE EARTH MOVER TIRE LINEUP

20.5-25 on rim 17.00 in. wide replaces 16.00-25 on rim 11.25 in. wide
 23.5-25 on rim 19.50 in. wide replaces 18.00-25 on rim 13.00 in. wide
 26.5-25 on rim 22.00 in. wide replaces 21.00-25 on rim 15.00 in. wide
 29.5-25 on rim 25.00 in. wide replaces 24.00-25 on rim 17.00 in. wide
 29.5-29 on rim 25.00 in. wide replaces 24.00-29 on rim 17.00 in. wide
 33.5-33 on rim 28.00 in. wide replaces 27.00-33 on rim 19.50 in. wide
 37.5-33 on rim 32.00 in. wide replaces 30.00-33 on rim 22.00 in. wide



FIRST pneumatic-tired truck to carry a pay load—much of it was spare tires—in 1916. It is shown enroute from Los Angeles to New York, which required slightly less than 14 days. Years of improvement intervened before the Nylon, tubeless tire that is the truck standard of today.

base design this proportion is increased to about 85% rim width to tire width. (See accompanying table). This wide-base design increases the air volume in the tire and the contact area on the ground so that lower inflation is possible than with the old, narrow rim, regular construction tire combination. This means improved flotation so that operations can continue in soft ground where the equipment with regular type tires might bog down and work can be speeded up under conditions where otherwise tire traction would be inadequate.

In line with greater rim width, the tread designs have been modified both in the "soft ground" and "rock" types. Wide-base tires are standard original equipment on many of the machines already in production and will be adopted by all leading manufacturers as wheel and machinery clearance problems are overcome.

3—Tubeless—The most recent of the major improvements in tires for construction equipment has been the introduction of tubeless tires about a year ago. The change to tubeless tires in passenger cars and light trucks with which one-piece drop center type rims were used, was relatively simple. The valve was fastened in the rim—making it air tight, the tire body and beads were completely rubber coated to seal in the air, and the assembly was a successful air container.

The equipment for trucks of

(Continued on page 102)

Pile driving equipment and how to use it effectively

From a dropped weight, pile driving has advanced to a mechanized technique with special types to handle different problems. Source of power is important, diesel is the latest.

such primitive equipment as a heavy weight for the hammer, a hoist to lift this hammer and the pile, and a structure of wood to guide the hammer. Until the demands of modern construction contracts were felt, this equipment was satisfactory.

With the need for greater speed in construction operations, greater mobility, and more economical use of manpower and equipment, the foundation contractor felt the need for more efficient and reliable pile driving equipment. He welcomed an automatic hammer that was easier and faster to operate, with less wear and tear on his associated equipment. He devised a means of adapting his power crawler-crane to his pile driving operations to afford greater mobility. He examined the possibilities of better selection of prime movers to operate his crane and his hammer. Today his search for better, faster, and cheaper means of performing this

one basic operation, pile driving, continues unabated.

Proper selection and use of modern pile driving equipment is complicated. For instance, McKiernan-Terry Corp. offers twenty-three different sizes and four different types of pile hammers. To choose the best and most economical hammer for any job is a major assignment. The contractor's experience and his know-how are his guides, and his profits are the measure of his successful selection.

Many considerations are important in the selection of pile driving equipment. First, is the pile itself: its composition, length, weight, and shape. Of no lesser importance is the soil, its composition and its stratification. Then, there are the engineer's specifications for the piling: its load-bearing requirement or other ultimate use.

(Continued on page 94)



DIESEL driven hammer which has self-contained fuel and lubricant tanks for 3 days.

BY G. ROBERT COMPTON, JR.

Vice President, Pile Hammer Division
McKiernan-Terry Corporation
Dover, New Jersey

THE SUCCESSFUL construction job depends to a large extent upon the equipment available to the field force, and the proper know-how and ingenuity to use it. This is equally true for an entire project of considerable magnitude, a small portion of a bigger job, or the smallest operation.

Pile driving operations, for instance, appear to consist simply of placing pile in the ground. The pile may be of many types: timber, steel H-beam, steel pipe, cast-in-place concrete, precast concrete, steel sheet of many shapes and sizes, wood sheet, etc., but basically the essential endeavor is to drive it. Yet, pile driving operations can have a multiplicity of complications for the contractor that result in high costs, high bids, no awards, and money lost on awards.

To the novice the equipment necessary to drive pile would appear very simple: a hammer, a means of lifting the hammer and the pile, a guide for the hammer and pile, and a means of operating the hammer. Actually, for many years these requirements were met by providing



A DOUBLE-ACTING hammer shown driving batter piles using an H-beam spud. The hammer is fastened by grapples on the flange of the beam and slides along it. Maneuverability is a feature.

it's here!

**BUCYRUS
ERIE**

30-B



SHOVEL • DRAGLINE • CLAMSHELL • CRANE • DRAGSHOVEL

Diesel • gasoline • electric (Single motor) • Direct or torque converter drive

Crawler or carrier mounting

Here's a brand new 1-yd. profit-maker for you—the Bucyrus-Erie **30-B**. Offered with either crawler or rubber-tired carrier mounting, it's readily convertible to various front ends—shovel, dragshovel, dragline, crane, or clamshell.

New . . . fast . . . quality-built, the **30-B** is just what you need in a 1-yd. machine to put you in a good position in the busy construction season ahead! Check the brief rundown of features given below; then request full details.

SEE IT AT THE ROAD SHOW!

Arena—space No. 514, corner 5th Avenue & U.S. 66

Matched to your needs

Either direct drive or torque converter drive—whichever best fills your requirements.

Five front ends, easily converted—main machinery arrangement simplifies conversion to shovel, dragshovel, crane, dragline, and clamshell to fit the job.

Your choice of five crawler mountings—standard length frames with either standard width or narrow width treads; long frames with narrow, standard, or wide treads; plus Transit Crane on rubber-tired carrier.

Extra equipment for special jobs—independent propel, third drum unit, cathead, telescoping boom stops, and various-length crane booms and jib extension.

Designed to out-perform

Easy, air control—hoist, crowd or drag, swing or propel, and steering clutches, as well as digging and swing brakes and dipper trip, are air controlled. Controls are accurate, conveniently placed, easy to operate.

Minimum time for servicing—easy access for maintenance; automatic lubrication of many parts; special system, with remote control located at operator's position, for greasing swing pinion and rack; grease fittings grouped to save time; adjustments quickly made, infrequently needed.

Strong, simple construction—parts are large, simple, few in number; provide strength needed for effective working, keep the machine on the job.

Built to outlast

Six conical hook rollers—two equalized pairs in front, two single in rear distribute loads evenly between upper and lower works, save wear.

Large, cool-running clutches and brakes—assure longer life. Five main operating clutches are alike, with parts interchangeable.

Specially processed steels add strength and wear resistance. Care in manufacturing pays off in extra years of machine life.

Strong, rigid cast steel revolving frame—built to withstand twisting and bending stresses—provides firm base for main machinery, maintains alignment to minimize wear.

201E56C

BUCYRUS-ERIE COMPANY

South Milwaukee, Wis.

THERE'S MORE . . . MUCH MORE ABOUT THE BUCYRUS-ERIE 30-B. To get the full story see your Bucyrus-Erie distributor. He has all the facts—will be glad to explain the 30-B's many outstanding features.

SEE US FOR COMPLETE INFORMATION

The Border Machinery Company El Paso, Texas; Carlsbad, N. M.
Clyde Equipment Company Portland, Ore.; Seattle, Wash.
The Colorado Builders' Supply Company
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Crook Company Los Angeles & Bakersfield, California
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Intermountain Equipment Company
 Boise & Pocatello, Idaho; Spokane, Washington

R. L. Harrison Company, Inc. Albuquerque, New Mexico
The Lang Construction Equipment Company Salt Lake City, Utah
Northern Commercial Company
(For Alaska & Yukon Territory) Seattle, Washington
West Coast Engine & Equipment Company Berkeley, California
Westmont Tractor Company Missoula & Kalispell, Montana
Tractor Equipment Co. Reno, Nevada
Road Machinery Company Phoenix, Arizona



See You at the ROAD SHOW • CHICAGO, Jan. 28- Feb. 2, 1957

See manufacturer's detailed listing in Yellow Section



HAMMER with "pants" driving interlocking steel sheet piling. The pants align the suspended hammer over the pile, unaffected by any release of the load line.

(Continued from page 91)

Thought must also be given to the associated equipment available for the job, the crane, the hammer and pile support, and the prime mover for the hammer. Each pile driving operation has its own problems and its own best solution.

Single-acting

Single-acting pile hammers, in which the ram is lifted by the motive fluid and drops by gravity, have been

commonly used for driving load-bearing piles. They have also been used almost exclusively for low-compressive-strength piles such as precast concrete. This type of pile hammer design, due to its modest motive fluid requirements, has been applied to the most powerful hammers available. Disadvantage is its relatively low frequency of blow, from 50 to 60 per minute. In considering economies of operation, the single-acting hammer is now generally selected for jobs on which: (1) the heaviest pile will be driven, (2) low compressive-strength pile will be driven, or (3) the pile will be driven through tough, rubbery types of soil.

Double-acting

Double-acting pile hammers, in which the ram is lifted by motive fluid and is dropped by gravity reinforced by motive fluid pressure, have always been preferred for driving steel sheet piling. They have also been used extensively to drive load-bearing piles through common soils. The high frequency blow of the double-acting hammer, from 90 to 1,000 blows per minute, results in driving the pile faster, specifically by keeping the pile moving and preventing the building up of soil friction.

Their disadvantage is relatively high impact velocity resulting in pile head deformation in any low compressive-strength pile. Double-acting hammers are most versatile hammers and are generally selected for general driving operations.

Differential-acting

Differential-acting hammers are a

variation of the double-acting pile hammer in which the configuration of the piston and the cylinder bore has been designed to reduce the size of the prime mover required. The ram weight has been increased for comparable energy output to offer lower impact velocity.

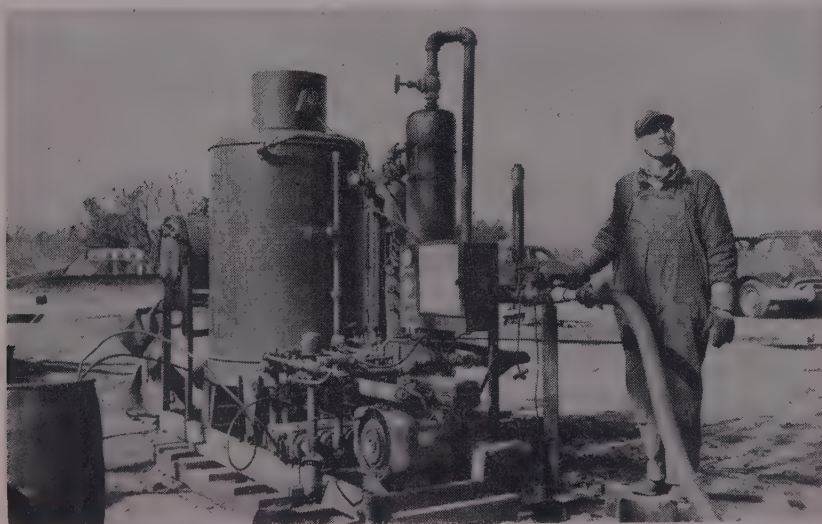
Handling the hammer

Having chosen the type and size of hammer, the best method of handling the hammer must be selected. Generally in modern construction operations a power crane is used to lift the hammer and the pile. Unless the pile has been set in advance (most steel sheet piling operation), the hammer can not be hung free and unsupported on the crane load line and operated to drive the pile. The hammer must be supported in some manner to permit releasing the tension on the crane load line and allowing the hammer to follow the fall of the pile. Even in the case of pre-set sheet piling, the hammer is generally fitted with "pants" (see illustration), or some other base attachment to hold the free hammer centered upon and in vertical alignment with the pile when the load line is released.

From base attachments for pile hammer support, the next step is to a type of rail lead on which the hammer rides and is guided, holding the hammer in line with the pile. The simplest lead is an I-beam or H-beam spud to which the hammer is fastened by grapples. Such a lead is easily maneuverable and is usually light in weight.

Fabricated lead structures are generally thought most desirable for accurate pile driving operations. These hammer and pile supports range from the very simple swinging leads, suspended from one crane load line, to more complicated structures. These are attached to the crane boom point by hooks engaging the sheave pin, fastened to the crane cab through an adjustable bottom brace or spreader, and often extended to carry their own sheave head well above the boom point. Lead structures can be built to be used at extreme forward and backward angles to drive batter piles or to swing to one side or another. They often contain telescopic sections for guiding the hammer below grade and below water.

Hammer support must be selected on the basis of the site restrictions, the pile type, the pile pattern and the lifting equipment available. Improper choice of equipment for ham-



STEAM GENERATOR (McKiernan-Clayton) specially designed to supply power for pile hammers. Full head of steam is generated in less than 3 min., and only in amounts required by the hammer.

(Continued on page 113)

25% greater capacity with Kue-Ken[®] Crushers



The increased capacity from Kue-Ken jaw crushers permitted this southern California plant to use a smaller size than would have been required with other crushers. Kue-Ken has the greatest capacity for its size, yet consumes less power. The mechanism operates in a sealed, dust-tight crankcase lubricated by filtered oil. Wear is negligible so that shutdowns common to conventional crushers are practically eliminated. The flywheel is automatically released on overload avoiding any breakage. It can be quickly reset. This plant also includes Kue-Ken gyratory crushers for the secondary crushing.

Write for catalog

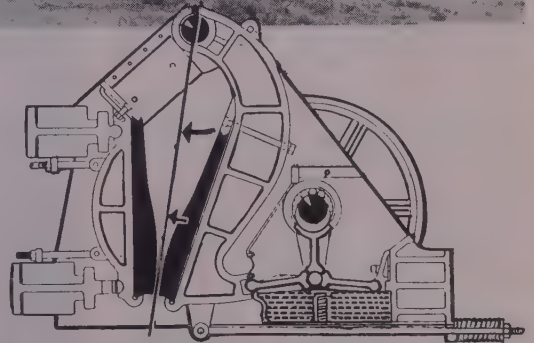
Straub Mfg. Company, Inc. 8381 Baldwin Oakland, Calif.

KUE-KEN[®] CRUSHERS

“CRUSHING WITHOUT RUBBING”

Jaw Crushers Gyratory Crushers Overhead Eccentric Crushers Revolving Screens
Classifiers Feeders Rib Cone Ball Mills Concentrating Tables Vibrating Screens

Pennsylvania Crusher Division, Exclusive Licensed Eastern Manufacturer and Distributor, 323 S. Matlack St., West Chester, Penn.
Armstrong Whitworth (Metal Industries) Ltd., Authorized Licensed Manufacturer and Distributor, Close Works, Gateshead-upon-Tyne 8, England



Jaw plates last at least 5 times longer . . .
only Kue-Ken crushes without rubbing

See how the hinge pin is located on the center line of the crushing zone. The jaw moves in an almost straight line. Rock is instantly gripped and crushed without rubbing.

DEALERS:

SEATTLE, WASH. Washington Machinery Co.
SALT LAKE CITY, UTAH Lund Machinery Co.
SAN ANTONIO, TEX. Clossner Equipment Co.
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PHOENIX, ARIZ. Stapley's
DENVER, COLO. Union Supply Co.
CASPER, WYO. Moss Equipment & Supply Co.
VANCOUVER, B. C. Universal Equipment Co.

Versatile tool for county roads

Multi-purpose machine performs many maintenance jobs and is operated more shifts than other pieces of equipment.

ENGINEERS on few construction operations are confronted with a greater variety of jobs to be done quickly than the men in county highway organizations. These are the men who constantly seek mechanized equipment that can be operated efficiently and economically for ditching, grading, material handling, crane work, pavement removal, snow handling, drainage pipe laying, bridge building and all the other kinds of jobs that fall under their jurisdiction.

L. H. Bradley, director of public works in the county of San Joaquin, California, is a typical example. In commenting on his mechanized equipment pool, he states that one machine works more shifts than any other piece of equipment he has. This is a Warner & Swasey Gradall which was purchased in 1953, the first of these multi-purpose machines to be owned by a California county.

"Our Gradall," says Bradley, "is used primarily to clean ditches, place culverts, clean under bridges, and for structural excavations. We could use the Gradall for trimming trees, and a mower attachment would find wide use for cutting willows from our levee roads. However, we have made no effort to exploit these possibilities since the machine is in constant use as it is."

The country in and around the city of Stockton is almost at sea level and very flat. Consequently a good grade must be maintained on all their roadside ditches. According to Bradley, the speed and precision of the Gradall is the best answer they have found to these problems.

In handling a precise ditching job such as is shown in the upper photograph, up to 600 ft. per hr. can be handled, dependent upon traffic limitations and local roadway congestion.

Clackamas County, Ore., is another Western state area which owns and operates a Warner & Swasey Gradall shown in the lower photograph at work on a ditch operation on Vineyard Road.

Throughout the Western states, ir-



rigation districts use Gradall machines on their construction and maintenance jobs. The Columbia River Basin project of the Bureau of Reclamation at Ephrata, Wash., has four Gradalls that they keep busy

in their three irrigation districts.

The Merced Irrigation District of Merced, Calif., has been able to cut the cost of digging and shaping new lateral canals by some 70% through the use of Gradall machines.

simple shifting

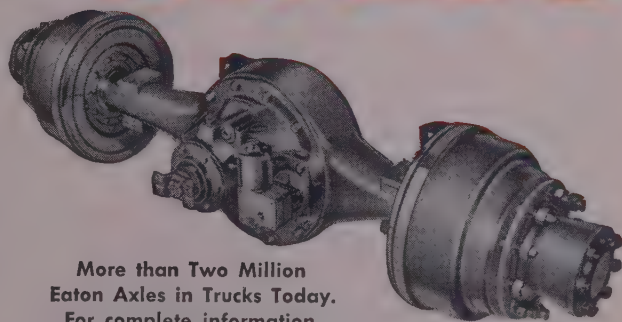
means



- 1 proper use of all available gear ratios
- 2 easier handling rigs; better maneuverability
- 3 reduced driver fatigue; safer operation

EATON *2-Speed Truck* AXLES

Eaton 2-Speed Axles not only let drivers select from TWICE the conventional number of gear ratios, but they make these ratios available at finger touch. Result: drivers use the right gear ratio for every road and load condition; engines operate in their most economical speed range; stress and wear are reduced on all power-transmitting parts. Trucks cost less to operate and maintain; last thousands of miles longer; and bring higher allowances at trade-in time.



More than Two Million
Eaton Axles in Trucks Today.
For complete information,
see your truck dealer.

EATON

AXLE DIVISION
MANUFACTURING COMPANY
CLEVELAND, OHIO



PRODUCTS: Engine Valves • Tappets • Hydraulic Valve Lifters • Valve Seat Inserts • Jet Engine Parts • Hydraulic Pumps
Motor Truck Axles • Permanent Mold Gray Iron Castings • Forgings • Heater-Defroster Units • Automotive Air Conditioning
Fastening Devices • Cold Drawn Steel • Stampings • Gears • Leaf and Coil Springs • Dynamatic Drives, Brakes, Dynamometers

See manufacturer's detailed listing in Yellow Section



Pipe jacking is never easy, but it approaches the impossible when the line is 443 ft. long and must be jacked downhill under the water table, with a drop in grade of only 13½ in.

Jacking pipe downhill under water

ONE OF THE UNUSUAL FEATURES of the Union Oil Building now under construction in downtown Los Angeles (*Western Construction*, April 1956 p. 32), is that the entire structure, including sub-surface levels 70 ft. below surrounding street elevations will drain by gravity. This is made possible by a storm sewer running underneath the depressed Harbor Freeway 443 ft. away.

Connecting the existing storm sewer to the building excavation with a 24-in. concrete pipe was a difficult job to plan for. Eight firms submitted competitive bids to general contractor, Del E. Webb Construction Co. Three of the firms planned to put a 4 x 4-ft. tunnel through first, one based his bid on pushing an oversized casing forward in advance of the pipe, and another planned to sink several potholes and jack the line in sections. Three firms decided on jacking the entire line from one end.

The difference of opinion as to which was the most economical method resulted from the fact that there is only a fall of 13½ in. in the 443-ft. line, which is very little leeway. No coring companies submitted bids because of the accuracy required. The winning bidder was J. S. Barrett of Santa Ana, a firm with plenty of experience in pipe jacking. The biggest difficulty was that the pipe was jacked downhill which created a water problem. Heavy traffic on the Harbor Freeway ruled out jacking the line from the lower end.

Permission was obtained from the California Division of Highways to construct the junction structure just

outside the edge of the Freeway lane.

A 4 x 20 x 7-ft. deep excavation was made, the junction structure was completed, level and line shots were taken and the backfill completed.

The pipe was moved with two Greenlee jacks mounted on rails and capable of exerting 75 tons force each.

The jacks and rails rested on a concrete slab at the precise line and grade, in a pit 20 ft. below the deepest part of the building excavation. When setting the line and grade for the rails, Del E. Webb engineers saved considerable surveying time by taking foresights to a crane cable 110 ft. high.

Barrett decided to go to 27-in. diameter reinforced concrete pipe, 3 in. over the specified 24-in. diameter. Each pipe section is 8 ft. long with 3-in. wall thicknesses.

The miner at the face excavated with an air-operated clay spade and loaded the material in an earth-moving cart curved to fit the contour of the pipe. The cart was drawn to the portal by a rope and was pulled back to the face by the same rope passing through a pulley at the face. It carried about ¾ cu. yd. per trip. Wheels on the cart held it about 3 in. above the invert of the pipe to provide room for the rope, air line and pump line. The electrical cord was suspended from the top of the pipe to keep it out of the water.

It was necessary to keep the pump running almost continuously to enable miners to work at the face. As can be expected, progress was rather slow, averaging about 4 ft. a day.

Occasionally an entire 8-ft. section was placed.

When jacking, the pipe moved forward about 8 in. per min. A miner stayed at the face riding the pipe forward and guiding its direction by inserting wooden wedges where needed. Line and grade were checked by laying a straight edge on the invert of end pipe. Grade readings were taken from an instrument set up at the portal to a rule illuminated by a flashlight and held by the miner at the face. Because the slope is so slight, a level shot can pass the entire length of the line.

The miner carried out his excavation to the exact dimensions of the pipe so that backfilling will not be necessary.

When measurements showed the jacked pipe to be four feet from the junction structure, the dirt was excavated ahead and the length, line and grade readings were taken. The length was short 2 in., the line was within 1 in. and the grade was within ¾ in. In the last jacking operation, the pipe was brought to the exact line and grade of the junction structure.

R. C. Nichols is resident engineer for Union Oil Company. For Del E. Webb Construction Company, J. J. Fahey is manager of job operations, C. Drinkward is job superintendent and A. Guizot and M. DeConinck are the job engineers. Pereira & Luckman, Architects-Engineers, are represented by P. L. Lawless, project manager and W. G. Brownie, chief architect's superintendent.

Superintendent for Barrett is Tom O'Brien.

See manufacturer's detailed listing in Yellow Section for advertiser on opposite page ➡

World's only
Screw and Screed
Concrete Spreader

All-new Self-Widening

Two Great New
**AGGREGATE
SPREADERS**

widths to 18'
thicknesses to 16"

JAEGER
shows all
at the
**ROAD
SHOW**

new
pumps

New
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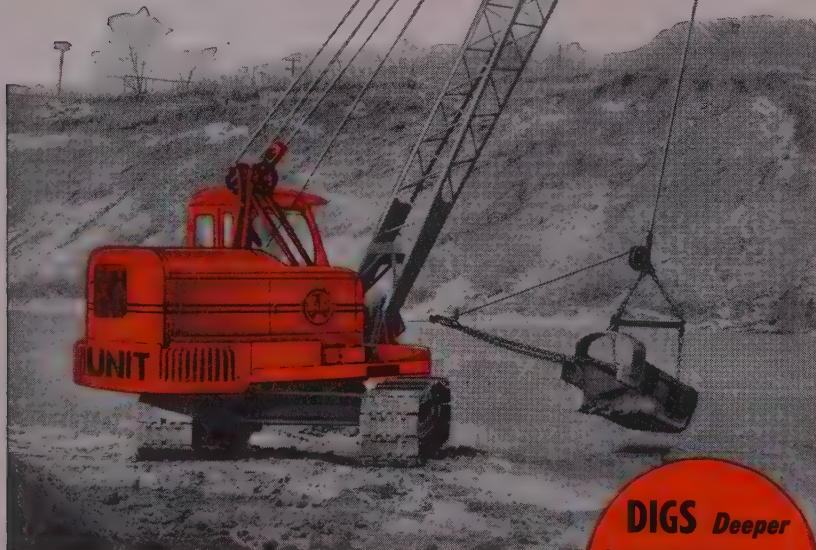
**BIG
NEWS IN
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BUILDERS'
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UNIT on the Job

UNIT 1020 offers every requirement for dragline operation—low ground pressure — stability — rotating fairlead — fast digging — rapid swinging — quick dumping.



Perfectly balanced for long boom operation, the UNIT 1020 is ideal for general excavation work, sand and gravel pits, irrigation, drainage and stripping operations. Available with UNIT TORQUE DRIVE, this machine gives you smooth performance, eliminates "shock loads", cuts fuel expense. Write for literature.

DIGS *Deeper*
SWINGS *Easier*
LOADS *Faster*

UNIT CRANE & SHOVEL CORPORATION

6421 WEST BURNHAM STREET

MILWAUKEE 14, WISCONSIN, U. S. A.



**1/2 or 3/4 YARD EXCAVATORS... CRANES UP TO 20 TONS CAPACITY
CRAWLER OR MOBILE MODELS... GASOLINE OR DIESEL**



All Models Convertible to ALL Attachments!

See manufacturer's detailed listing in Yellow Section

MODERN TIRES

(Continued from page 88)

medium size ordinarily used on rims made of two parts was changed to similar one-piece drop center type rims and tires, and this simplified assembly was adopted as standard by the truck and tire industries in 1955 (see illustration).

The earth mover and grader tires used on rims having two to five parts presented much more difficult problems but these, too, have been solved by the design shown in attached diagram. The Tire & Rim Association, in 1956, adopted as the industry standard the Tru-Seal rim program which assures an air-tight assembly regardless of tire size (see illustration).

Principal advantage of tubeless construction of earth mover and grader tires is the elimination of tube and flap troubles which were responsible for up to 90% of the down-time attributed to tires. Tubeless tires are more easily mounted than tube type tires of the same size; they run cooler and are accordingly likely to be longer lived.

Whereas it was necessary to give new size markings to the medium size truck tires which were changed from the so-called flat base type rims to drop center type rims, this has not been necessary in the case of most earth mover and grader tires. Neither the dimensions of the tires nor the tire size markings have been changed.

Sealing of the rim is accomplished by cutting a groove in the base into which an endless rubber sealing ring is placed, completely blocking the escape of air at this point. The tire beads make a tight seal on their bead seats and the valve fastened in the rim base completes the assembly.

The operator who buys new equipment with tubeless earth mover or grader tires will not be faced with the necessity of maintaining stocks of tube type spares for his old vehicles. The new tubeless tires can be used with a tube on the old type rims since, as mentioned above, tire dimensions have not been changed.

Equipment manufacturers looking ahead to the big task of eliminating the highway bottlenecks of 1956 will help the contractors tackle this job with greater potential tire performance and lower operating costs by (in most cases) fitting the 1957 models with the earth mover and grader tires containing the new features mentioned: (1) Nylon cord (2) wide-base rim and tire types and (3) tubeless tire and rim construction.



CLOSNER EQUIPMENT COMPANY

1415 WEST POPLAR ST.

SAN ANTONIO 7, TEXAS

PERSHING 4-4269

Screen Equipment Co., Inc.

1750 Walden Avenue

Buffalo 25, New York

Attention Mr. N. J. Gleiser

Subject: Collins Construction Company of Texas

Dear Nels:

Since receiving your letter of August 31, 1956, regarding this customer, we have obtained additional information concerning material handled with their 5'x10' double-deck, Type "H" screen.

About a week ago, they reported that in one day a total of 4,600 cubic yards of material was put through the plant in approximately 9½ hours running time. This, of course, checks out at 494 yards per hour, and with a cubic foot weight of 85 pounds we come up with 568 tons per hour.

As you probably will recall, all material put through the plant goes over the screen. Depending upon pit conditions, the amount of material going through both decks of the screen will vary. However, with production at the above rate, it is estimated by the customer that in the vicinity of 60% of the material passes through the 4" top deck opening and the 1½" bottom deck opening. From my observation, the bulk of this percentage goes through in about the first four feet of the screen decks.

Best regards.

Sincerely yours,

CLOSNER EQUIPMENT COMPANY

George W. Closner

GWC:rp

Long Life

Service

BELTON SAND AND GRAVEL CO., Inc.

ELMER H. HAYS
President and
Gen. Mgr.



BELTON PHONES
Office 336
Plant 9015

BOX 365
BELTON, TEXAS

Mr. C. S. Fielding
Screen Equipment Co.
1750 Walden Ave.
Buffalo, N. Y.

24 July, 1956

Dear Sir:

We would like very much to have you quote us a price on the following SECO vibrating screen.

A 3' x 8' single deck, Type MS, scalping screen. Screen to have built in frames and arch deck to use crimped edge cloth and draw plates. Frames and draw plates built so as to take two 3' x 4' cloth sections.

We have used a SECO screen for the past ten years and are very well pleased with it.

Thank you for your attention to this matter.

Yours truly,
Belton Sand and Gravel, Inc.

By:

L. P. Heard, Jr.

Ohio Asphaltic Limestone Co.

NEW VIENNA, OHIO

PHONE HILLSBORO 771

LYNCHBURG 91R2

May 12, 1956

Screen Equipment Co.
1750 Walden Ave.
Buffalo 25, New York
Attn: Mr. C. S. Fielding

Dear Sir:

I wish to thank you, Mr. Fielding, for your interest and help. I believe yours is the best Company we have ever had dealings with in so far as the service you give to your customers and the interest you show in their problems. Could you give us a tentative shipping date on the new panels.

Yours truly,
Ohio Asphaltic Limestone Co.

W. C. Mason
Pres

WCM/LB



Prestressed building erection features—

Casting bed at job site

PRESTRESSED CONCRETE building methods made another advance recently when the first pretensioned roof panels were hoisted into place on the \$1,000,000 General Electric warehouse and offices in Los Angeles. This marks one of the first times that such members were manufactured on the job site by the contractor. The advantages of using prestressed concrete in a building of this type are well known but very often the cost of transporting heavy members is prohibitive.

Several contractors bid on the GE job, among them Noyes Roach Co. and C. L. Peck, a joint venture.

Roach, along with his chief project engineer, James Wubbena, recognized that every competing contractor would likely be restricted to identical figures on the cost of prestressed concrete. Since this material was specified for 100,000 sq. ft.—more than 83% of the total area—it was agreed that here was the place to cut costs, if possible.

Calculations had to include the cost of designing, building and operating the pretensioning casting beds as well as the usual estimates concerned with the cost of the building itself. Even with these extra expenses, Roach could produce the specified panels and beams for less than the price quoted by the one Los Angeles prestress firm. A comparable firm—located in San Francisco—could not compete due to the \$25,000 it would have cost to transport the 580 concrete sections.

The bid by Noyes Roach-C. L. Peck was low and the contract was awarded.

Designed by Albert C. Martin & Associates, architects and engineers, the plans call for 496 roof panels and 84 girders. Panel dimensions are 40 x 5 ft.; girders are 18 in. x 16 in. x 26 ft.

Engineering Consultants T. Y. Lin & Associates worked with the contractor in designing and setting up the casting beds. These were built to

meet the requirements of the immediate job, without much anticipation of future use.

However, some salvage is practical and Roach believes that his headstart may give him a bidding edge on future work when on-the-site prestressing again makes sense.

For the GE project, Roach installed four panel beds and one girder bed, each resting on a 4-in. concrete slab. Simply described, the casting beds consist of fabricated sheet steel forms supported by reinforced concrete beams. Sufficient anchorage is provided to handle calculated stress, but the entire pretensioning plant was devised as a temporary facility, with a view to reasonably easy dismantling and removal.

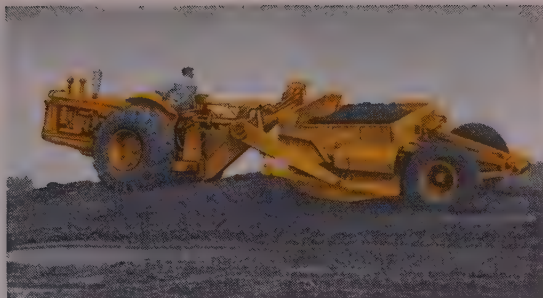
Twelve wires are used in the girders; eight in the roof panels. Extreme care is taken to assure that each wire gets equal tension, while a unique method of harping controls the camber of each span.

Another time-saving construction method—tilt-up walls—is included in the Albert C. Martin & Associates design. General Electric expects to occupy the building this month, January, six months after starting.

AT LAST!

A versatile self-propelled scraper

that brings self-loading savings to everyone!



A NEW IDEA BY OLIVER
priced thousands under others!

No matter whether you're a small contractor in need of a *first* self-propelled scraper...or a large contractor needing a *fill-in* rig—this amazingly low-priced Oliver is your first practical answer.

These are the facts: this all-hydraulic scraper is powered for the job, sized for the road and priced so you can have it *now!* It's fast, versatile, maneuverable and able.

Profit from its better self-loading ability in all forms of scraper work in earth, sand—digging, moving, grading, filling, dumping, and spreading.

It's tops for visibility and operating ease with exclusive low-mount hitch and finger-tip hydraulic control. It loads fast and full with special curved bowl design. High sweep apron with positive roll-out ejection gives clean, controlled spreading. It's 100% hydraulic; no cables anywhere!

All this in a more versatile, job-extending self-propelled at an easily afforded price that's actually *thousands* of dollars under other rigs. See your Oliver distributor.



THE OLIVER CORPORATION

400 W. Madison Street, Chicago 6, Illinois

a complete line of industrial wheel and crawler tractors and matched allied equipment

See manufacturer's detailed listing in Yellow Section

VITAL STATISTICS

Capacity—6.7 cu. yd. heaped

Power—GM industrial 3-cyl., 83 h.p. diesel

Transmission—6-speed selective transmission (torque converter optional)

Steering—Positive hydraulic

Dimensions—19'1" (scraper); 30' scraper and tractor; 8'6 1/4" width

Tires—14.00 x 20 scraper; 18.00 x 26 tractor

Control—Fully hydraulic

Get yours!

This complete picture and fact bulletin of America's lowest priced self-propelled scraper. Write now!



INCOME TAXES: How to pay them and still stay in business

Should you trade in your equipment or sell it for cash? Should you buy it new or used? The answers depend on many things but one of the main factors is the effect on your income tax return. This article may help clear up an always difficult subject. The information was supplied by the American Institute of Accountants and checked by the Internal Revenue Service.

LONG RANGE TAX planning in today's business world of high tax rates is no longer "big business foolishness." Last-minute tax worrying with no year-around tax thinking can result in the loss of sizable savings for small and medium-sized businesses when it comes time to file a tax return.

Should you sell or trade?

For example, assume that last summer you were forced to replace your air conditioner. You shopped around and found you could either sell your old unit to a private party for \$500, or a dealer in town would give you a trade-in allowance of \$500 on it. That seemed like six-of-one-half-a-dozen-of-another to you; so without thinking—or worrying—about tax matters you traded in the old air conditioner.

To prove how such a seemingly simple business decision such as this can affect how much tax you will have to pay, let's assume further that the air conditioner which you traded had originally cost \$2,500 and that you had taken \$1,000 depreciation on it. This meant its cost for tax purposes was \$1,500, and you were going to "lose" \$1,000 whether you accepted the dealer's trade-in allowance of \$500 or sold to the private party for \$500.

So far still six-of-one-half-a-dozen-of-another, but now since you elected to trade in your old air conditioner, let's see how you can claim a deduction on a tax return for your \$1,000 loss. The answer is simple. You can't. All you can do is add the amount of the loss to the cost of your new unit, and eventually receive tax credit for your loss in the form of slightly higher depreciation deductions.

On the other hand, if you had made a bona fide sale of your old unit to the private party and a separate purchase of a new unit from a dealer, you would have established a \$1,000 loss which could be claimed as a loss deduction on a tax return

and used to offset regular income.

It is not always true, of course, that a loss deduction on the tax return is worth two in the bush of depreciation, but a general rule to consider when you are trying to decide whether it would be more advantageous taxwise for you to sell or trade in an asset is: sell "loss" property to obtain a deduction, and trade "profit" property to avoid the tax which must be paid on any profit realized from the sale of an asset.

You may find that you have sold yourself into a capital gains tax or traded yourself out of a loss deduction if you have not figured your depreciation costs correctly. This is a matter you should discuss with a certified public accountant. Not only can he verify the accuracy of your mathematical computations, but he can also explain the advantages and disadvantages of the various methods used to compute depreciation. It could be that the method you used or are using is not the one most suited to your business needs from a tax standpoint.

The declining balance method

The declining balance method "speeds up" or increases depreciation rates. This starts the chain reaction to your objective of retaining cash in the business, because when you increase depreciation rates you also increase allowable depreciation deductions on your tax return. The amount you may write off the first year is twice what it would be if you used the straight-line method; so by applying a \$1,000 instead of \$500 depreciation against your regular income, you are going to reduce your taxes, and cash that does not have to be paid out in Federal taxes can be retained in the business for expansion purposes.

It seems all good things eventually come to an end, however, and while in the first year the declining balance depreciation rate may be double that of the straight-line, this differential diminishes in succeeding

years until declining balance deductions are even less than they would be under the straight-line method. This is why it is important that you consider current and future earnings before you select a depreciation method.

What straight-line depreciation does

For example, if your current earnings are low, or if you are putting in a new line of merchandise and the results of this expansion will take a few years to show in your earnings, it might be more advantageous taxwise for you to use the straight-line method of computing depreciation.

The straight-line method does not "speed up" depreciation deductions. It spreads them out equally over the estimated useful life of the asset; so when you use a straight-line method you are saving, in a sense, for a rainy day. When your earnings improve or increase, you will have more substantial depreciation deductions to apply against those earnings. There usually is no point in increasing a loss or reducing low earnings by claiming additional depreciation deductions when you do not need them.

New or used equipment?

A point to remember when you are trying to decide whether to buy new or used equipment is that second-hand equipment must be depreciated by the straight-line method. This tax factor should be considered, because loss of the opportunity to use the declining balance method with its rapid write-off features may cancel any immediate savings effected by the purchase of used equipment.

The matter may have been decided and forgotten many years ago, but a basic question businessmen should consider from time to time—and one which has many tax implications—is whether to do business as a proprietorship, partnership or corporation. There may be personal or professional factors that force the selection and maintenance of a non-corporate form of organization, but depending on the earnings of the business and the amount of those earnings you may need to withdraw, there are certain tax advantages to be gained by incorporating a new or expanding company.

Since proprietorship and partnership income is taxed at individual

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INCOME TAX

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...es, which range from 20% to 30%, and corporation earnings are taxed at corporate rates of 30% on the first \$25,000 earned during the year and 52% on the excess, it might appear that if you have relatively low income the proprietorship-partnership rates are lower. However, you must also consider that the corporate tax carries with it the privilege of deducting a reasonable salary paid to an employee-owner. The employee-owner has to pay a personal tax on his salary, of course, but if he were not incorporated, he would have to pay a personal tax on the money earned by the business. If the retained earnings of the company are taxed at a corporate rate which is lower than what the personal tax rate would be, the employee-owner would benefit by having additional funds available in the corporation for expansion purposes. These funds may be accumulated in the corporation up to \$60,000 without further tax penalties, and even higher if the corporation can prove need for them.

Think about long-range needs

These advantages—while they may cut your current tax bill and increase working capital for expansion needs—can be lost if you have jumped into a corporation without first reviewing your own long-range cash requirements. If you are continually forced to withdraw money from the corporate earnings to pay personal expenses, you will have to withdraw these funds in the form of dividends. That means the corporation will have to pay tax on the earnings you are withdrawing as dividends, and you will have to pay tax on the dividends received. The "double tax" on earnings and dividends can nullify any tax advantage from incorporation when earnings must be withdrawn immediately as dividends.

Many businessmen seek professional advice about tax matters as they do professional assistance with their golf game—when the slice has become almost unbearable. You can save tax dollars by realizing that business decisions made in the fall affect the amount of tax you must pay in the spring. Practice year-around tax thinking, and consult a certified public accountant when you are in doubt as to the tax effect of even the most routine business decision.

On highway paving contract, this Johnson portable silo plant provided 1084-barrel cement-storage capacity — 373 bbls. in elevated silo, 711 bbls. in the auxiliary ground silo

**STAYS AHEAD
of paving crew**



BIG STORAGE CAPACITY — and fast weigh-out of Johnson portable bulk cement plants keep batch trucks rolling on schedule. You get from 254 to 611-bbl. capacity with single silo — up to 1321 bbls. with twin silos. Plant can be used with one or two 1000-bbl. cement batchers, manually controlled — or fully-automatic with graphic recording to meet most rigid specifications on high production airport and highway paving jobs.

Larger batcher, extra leg and elevator height are available for charging transit-mix trucks. Big capacity screw conveyor, bucket elevator and receiving hoppers accommodate rail or truck delivery of cement. All silos have aeration systems, "hi-lo" bin level signals. They're all-welded in one piece, only 11 or 12 feet in diameter — easy to ship, simple to erect and re-assemble at next site. *Get set*

now for the big paving program ahead — see your Johnson distributor today about the portability, big storage capacity, speed and batching accuracy of C. S. Johnson bulk cement plants.



Here's another way to transfer cement from rail cars into trucks, or weigh-batch. It's the Elevating Charger, with manual or full-automatic batcher control, graphic recording. Johnson brings you everything from buckets to complete central or transit-mix plants.

J735R

CONRAD CREIM COMPANY	Seattle
CRAMER MACHINERY CO.	Portland
WESTERN MACHINERY CO.	Salt Lake City
THE HARRY CORNELIUS CO.	Albuquerque
KING AND EAST MACHINERY CORP.	Denver
ENGINEERING SALES SERVICE, INC.	Boise
COOK BROS. CONST. MACH. CO.	Los Angeles
C. S. JOHNSON CO. STOCKTON BRANCH	Stockton
ANDREWS EQUIPMENT SERVICE, INC.	Spokane
COOK BROS. EQUIPMENT SALES	Phoenix
WESTERN CONSTRUCTION EQUIP. CO.	Billings, Great Falls



JOHNSON bulk cement PLANTS

A SUBSIDIARY OF KOEHLING COMPANY

See manufacturer's detailed listing in Yellow Section



**25 FEET
per minute**

with 150 Trenchliner

On drainage, irrigation, pipeline and utility trenching jobs, Parsons wheel-type 150 combines high-speed production with precision grading accuracy. It opens from 12 inches to 25 feet of trench per minute — 16 to 26 inches wide, at depths to 5¾ feet.

Hydraulic wheel-hoist

A hydraulic ram on vertical mast raises and lowers digging wheel with fractional-inch accuracy — maintains close grade tolerance at any depth. Separate hydraulic ram tilts the mast, balances weight of wheel forward when traveling or trailer-loading.

There's plenty of flexibility in this Parsons 150 Trenchliner to meet a wide range of soil and job conditions. It has: cast-steel buckets with self-sharpening, reversible "Tap-In" teeth • quick-change gumbo buckets • optional tile-layer • shiftable, reversible spoil con-

veyor • choice of 16-inch grouser crawlers (street pads optional) or 12-inch crawlers with flat treads • gas or diesel power. Want more information? Call your Parsons distributor. *Do it today.*



Here's a ladder-type Trenchliner worth looking into. This general-purpose 250 digs 16 to 42 in. wide, 12½ ft. deep. When equipped with dual booms, it digs 5 ft. wide, 8 ft. deep. Parsons line offers all sizes, types, on crawlers or rubber — also "big-inch" and "middle-inch" wheel-type Trenchliners.

P736R

AMERICAN MACHINE COMPANY.....	Spokane
PACIFIC HOIST & DERRICK CO.....	Seattle
COLUMBIA EQUIPMENT CO.....	Portland
HARRON RICKARD & McCONE CO. OF SO. CALIF.....	Los Angeles
McKELVY MACHINERY CO.....	Denver
KIMBALL EQUIPMENT CO.....	Salt Lake City
NEIL B. MCGINNIS CO.....	Phoenix
THE HARRY CORNELIUS CO.....	Albuquerque
ENGINEERING SALES SERVICE, INC.....	Boise
STANDARD MACHINERY CO.....	San Francisco
WESTERN CONSTRUCTION EQUIP. CO.....	Billings, Great Falls



PARSONS TRENCHLINERS
A DIVISION OF KUERNING COMPANY

Idaho highway costs on the rise again

IDAHO'S COST INDEX of highway construction, prepared quarterly under the direction of G. Bryce Bennett, State Highway Engineer, moved up in the third quarter, following second quarter dip. The index figure based on 1950 costs as 100 stands at 113.0 which compares to a corresponding figure of 120.0 for 1955.

The second quarter dip was based on local factors including the release of a large number of seasonal jobs which caused a large amount of competition. The corresponding upturn in the third quarter tends to reflect the cost increases in labor, steel and other materials, in addition to the fact that contractors are modernizing their equipment plant and adding corresponding cost increment.

Trend appraised

An analysis of the recent upturn and the expected trend in cost items comes from C. P. Humphrey, engineer of costs and estimates. His appraisal of this situation and the trend for the coming season follows:

"There are many who predict an inflationary rise in prices due to the large program ahead. This large volume has not materialized yet, hence bid prices reflect only the immediate increases of cost elements expected to date. Contractors continue to modernize their plant, looking to increased production with less time out for repairs, to pay a considerable part of the bill for modernization. This means that contractors can handle more work, which the predicted larger volume of available work will satisfy. A greater continuous operation will result in less non-operating overhead, better financing schedules with equipment write-off in step with actual wear instead of obsolescence.

It becomes increasingly apparent that runaway prices induced by an oversupply of available work, where contractors begin bidding for an inadequate supply of labor, material and equipment can be controlled effectively, only by proper management of the supply of work. To prevent further erosion of the dollar value of work by reduced purchasing power the capacity of our contractor to perform such work must be continuously measured and the volume of offerings regulated accordingly. Upon our ability to manage our programs will hinge the future of our bid prices, other than moderate price rises to accommodate increased labor materials and equipment costs. Even these increases will be partly offset by better and cheaper methods of performance which will result in a very nominal increase in cost, so long as the element of competition is maintained to restrain inflationary tendencies."

See manufacturer's detailed listing in Yellow Section

Modern pile drivers

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or support and pile guidance can severely penalize a pile driving job by requiring time-consuming maneuvers, causing damage to piles or hammer, and by requiring excessively large and costly equipment to hold the hammer and its support.

Supplying power

Selection of equipment to power the pile hammer can also have a very finite bearing on the costs of pile driving operations. To power the hammer for a drop hammer and later to power the automatic hammer, coal-fired vertical, fire-tube boilers were generally used. Their movement, installation, coal storage and firing characteristics all placed costly restrictions upon the pile operation. With fuel oil available to simplify fuel stocking problems and firing methods, the pile driving contractor now finds an advantage in oil-fired pile drivers. Portable gasoline or diesel engine driven air compressors can reduce prime mover operating costs, eliminating the need for water and supplying motive fluid for the hammer almost instantaneously. The relatively high investment for an air compressor and the need for two or more units to operate the larger hammers has created a market for fast-loading, light-weight generators. Most recently, the diesel pile hammer, with a one-cylinder, two-cycle diesel engine in which the piston is the hammer ram, has been introduced to the construction market. The diesel hammer entirely eliminates the need for any prime mover.

To reduce driving costs serious study must be given to initial costs, operating costs, necessity for mobility and installation of the prime mover for the pile hammer.

Finally, when the equipment and the method for its use has been selected, the best insurance for costs to remain within the estimate is a realistic maintenance program. Manufacturers know about the difficulties into which their equipment can run and they know how the difficulties can be avoided. They make definite recommendations regarding the care of the equipment they produce. Operation restrictions, lubrication schedules, and replacement schedules recommended by the manufacturer and adhered to by the contractor will not only provide more efficiently operating equipment but will also prevent the exorbitant costs of equipment down-time.

Big value at a low price...

**NEW 3½-S
Dandie Junior**

All-welded

Separate
ring-gear

Double-grip
tilting lever

Box-section
yoke, frame

Light-weight
portability

40-in. charging
height

4-blade drum

18-in. drum
opening

Capacity
AGC
approved

Looking for a good, small concrete mixer in the popular low-price range? Then meet the 3½-S Dandie Junior! It's a new addition to the Kwik-Mix line. Capacity is 3½ cu. ft. (plus the usual 10% overload). You'll like the low charging height, big-target drum opening, and easy-tilting discharge. Notice, too, how latch slots hold drum in any position for complete or partial discharge. Single V-belt drive transmits power from the 2.2 h.p. air-cooled gas engine to the 4-blade drum—speeds mixing cycles.

Heavy-duty, light-weight

You also get a big "plus" in light-weight, long-wearing durability not ordinarily found in mixers in this "economy" price range. All-welded steel drum with separate ring-gear, box-section yoke and frame resist operating stresses. Yet, for all its strength, mixer weighs only 485 pounds. Antifriction bear-

ings throughout provide smooth, dependable operation, and easy-rolling portability.

Call Kwik-Mix distributor about this low-cost 3½-S Dandie Junior now. Complete line includes all sizes, types up to 16 cu. ft. Also: plaster-mortar, bituminous mixers, and material-handling Moto-Bugs.®



For more mixer "mileage" on plastering and masonry jobs, check Kwik-Mix 4-PM. It has: all-welded frame and drum, clutch on V-belt drive, 4 self-cleaning blades, optional rubber tips, bag-cutter on hinged safety grill.

KM737R

AMERICAN MACHINE COMPANY	Spokane
PACIFIC HOIST & DERRICK CO.	Seattle
COLUMBIA EQUIPMENT CO.	Portland
HARRON RICKARD & McCONE CO. OF SO. CALIF.	Los Angeles
McKELVY MACHINERY CO.	Denver
KIMBALL EQUIPMENT CO.	Salt Lake City
NEIL B. McGINNIS CO.	Phoenix
THE HARRY CORNELIUS CO.	Albuquerque
SAN JOAQUIN TRACTOR CO.	Bakersfield
ENGINEERING SALES SERVICE, INC.	Boise
STANDARD MACHINERY CO.	San Francisco
WESTERN CONSTRUCTION EQUIP. CO.	Billings, Great Falls



KWIK-MIX Dandie MIXERS

A DIVISION OF KOEHRING COMPANY

See manufacturer's detailed listing in Yellow Section

New riprap idea at Ice Harbor Dam

First a layer of 6 x 6-in. steel mesh, then a 2-ft. layer of dumped rock, then two more layers of mesh, anchored to the first by 3/8-in. tie rods on 4-ft. centers.



WORKMEN place covering layer of 6x6-in. steel mesh over 2-ft. layer of dumped rock. Rock blanket is slush grouted for lower 15 ft. at toe of slope for greater strength.

A NOVEL METHOD of securing a protective blanket of rock to prevent erosion along the north bank of the Snake River at Ice Harbor Dam site has been devised by the designing engineers at the Walla Walla District Office of the U. S. Army Corps of Engineers, and dubbed "Lunn's Bedsprings" after the designer.

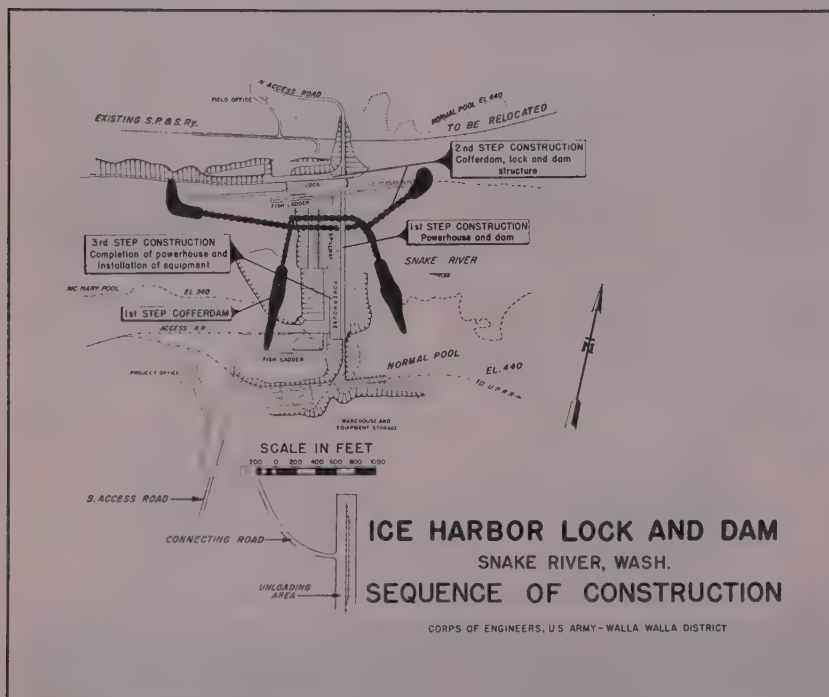
With diversion of the flow of the river of the first step cofferdam which will jut out from the south shore and force the entire flow of the Snake against the north shore bank, some protective method was necessary to prevent erosion along the north shoreline. Even riprapping with heavy rock must be held in some manner in order to withstand the current sweeps that might be expected during the spring runoff season at the dam site where flows in excess of 250,000 cfs. have been recorded.

Studies show erosion problem

Hydraulic model studies conducted at the Bonneville Laboratory on the Columbia River, where a scale model of 1 to 100 has been constructed, revealed that even with the curving of the upstream corner of the cofferdam to minimize the north shore velocity acceleration of the river current, erosion would still be a problem. To meet this problem, Army Engineers specified the excavation of 500,000 cu. yd. on the north shore to provide a channel of sufficient width to pass the designed river flow of 250,000 cfs. This excavation would have been ultimately required for the lock which will be constructed under a future contract. The north shore river bank slope was cut to a 1 on 2½ slope.

The "Lunn Bedsprings" idea of securing the riprapping consists of steel mesh bound rock mattress placed over the 1 to 2½ slope shoreline. First a layer of 6 x 6-in. steel mesh electrically welded is placed on the excavated slope and a 2-ft. layer of dumped rock 18-in. maximum to 6-in. minimum spread as a covering. Two layers of steel mesh are placed over the rock and anchored to the bottom mesh by means of 3/8-in. diameter tie rods on 4-ft. centers both ways.

The wire bound blanket of rock terminates at a point upstream where the river velocity will be relatively low. The ends of the rock blanket are also reinforced by a dumped rock fill. The major portion of the steel mesh bound rock blanket will extend to bedrock and be slush grouted for the lower 15 ft. along the toe of the slope to insure against undermining by the current.



1957

WESTERN

CONSTRUCTION

**EQUIPMENT
DIRECTORY**

THIS IS THE THIRD TIME this complete directory, compiled and published annually by Western Construction to serve the entire construction industry of the West, has been included in a regular issue of the magazine. (Seven previous editions have been bound and sold separately at \$5.00 per copy.)

The editors consider the W. C. Equipment Directory a valuable expansion to the regular service provided by the magazine, and are therefore proud to present this 1957 Edition to Western Construction readers.

It is a time- and money-saving guide for users

and buyers of construction equipment in the Western States and Alaska, as well as the region's construction equipment distributors, and the manufacturers in the entire U. S. Its pages catalog in great detail the manufacturers of construction equipment in the United States, their products, and their distributors throughout the entire West and Alaska. It is the only source of this information.

Additional copies of the 1957 W. C. Equipment Directory, bound separately with convenient spiral binding, may be purchased at \$5.00 per copy from Western Construction, 609 Mission St., San Francisco 5, Calif.

For contents of the W. C. Directory . . . see following page

Contents of W. C. Directory

MANUFACTURERS' SECTION

. . . Yellow Pages

CONTAINS names of construction equipment manufacturers in the entire U. S., listed alphabetically. Details provided for each manufacturer are: products, Western branch offices, key Western personnel, and distributors in the 11 Western States and Alaska.

DISTRIBUTORS' SECTION

. . . White Pages

CONTAINS names of Western distributors listed: (a) by states, (b) within states alphabetically by cities, and (c) within cities alphabetically by names. Details provided for each distributor are: address, personnel, phone numbers, branch offices, and lines of equipment handled.

PRODUCTS SECTION

. . . Blue Pages

CONTAINS alphabetical listing of construction equipment by specific categories. In each category appear names of all manufacturers of that product who are also listed in the Manufacturers' Section.

TRADE NAMES SECTION

. . . Last Blue Page

CONTAINS names of products only when such name differs from name of manufacturer, with identification of correct manufacturers.

WESTERN CONSTRUCTION

1957 EQUIPMENT DIRECTORY

Manufacturers Section Yellow
Distributors Section White
Products Section Blue
Trade Names Section Blue

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ACKER DRILL CO., INC.
725 W. Lackawanna Avenue
Scranton 3, Pennsylvania**PRODUCTS:** Core drills, diamond and shot; Portable Soil Sampling Kits; Earth Augers; Wash Boring Rigs; Pavement Core Drills; Drill Supplies.**ADAMS DIVISION**
LeTourneau-Westinghouse Co.
2301 North Adams Street
Peoria, Illinois

See listing under LE TOURNEAU-WESTINGHOUSE CO.

AEROIL PRODUCTS CO., INC.
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, etc.**FACTORY BRANCH**

California	Los Angeles	3217 Union Pacific Ave.
	Manager	Charles Klievies

AEROQUIP CORPORATION
300 South East Avenue
Jackson, Michigan**PRODUCTS:** Flexible Hose Lines; Detachable, Reusable Fittings; Self-Sealing Couplings.**FACTORY BRANCH**

California	Burbank	Aero-Coupling Corp.	3015 Winona Ave.
PH: TH 8-5578		Gen. Manager	F. F. Hinkley
		Sales Manager	C. W. Sawhill

AIR PLACEMENT EQUIPMENT CO.
1009 W. 24th Street
Kansas City 8, Missouri**PRODUCTS:** Concrete Guns and Sandblast Machines; MIX-ELVATORS (portable) for proportioning, mixing, elevating and screening dry mixed aggregates; Belt Type Sand Loaders complete with powertake off drive transmission; Concrete Gun Nozzles; Grout Machines; Special Pneumatic Placement Equipment.**DISTRIBUTORS**

Arizona	Phoenix	Western Machinery Co.
California	Fresno	Edward R. Bacon Co.
	Los Angeles	Smith-Booth-Usher Co.
	Oakland	Edward R. Bacon Co.
	Sacramento	" " " "
	San Diego	Smith-Booth-Usher Co.
	San Francisco	Edward R. Bacon Co.
Colorado	Denver	Western Machinery Co.
	Grand Junction	" " " "
Idaho	Idaho Falls	" " " "
Oregon	Portland	J. D. Burden (Factory Repr.)
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; Welding Regulators; Oxy-Acetylene Cutting Machines; Oxy-Acetylene Accessories; Arc-Welding Machines; Arc-Welding Electrodes; Arc-Welding Cable and Accessories; Inert Gas Welding Equipment.**FACTORY BRANCHES**

California	Bakersfield	3131 Jewett Ave.	E. E. Broadwater
	Burbank	3200 Burbank Blvd.	R. M. Parma
	Fresno	2319 Santa Clara	B. R. Coltrin
	Inglewood	1513 Centinela	H. Long
	San Diego	1531 Rigel St.	R. W. Gauck
	Stockton	845 E. Hazelton	R. M. Beckham
Washington	Tacoma	2106-A St.	E. J. White

FACTORY PERSONNEL

California	Emeryville	1485 Park Ave.	H. W. Saunders, VP
	Vernon	2861 Leonis Blvd.	L. J. Fife, Sls. Mgr.
			E. W. MacCorkle, VP
Oregon	Portland	430 NW 10th Ave.	S. Georgeson, Sales
			H. A. Hoth, VP
			S. Richardson, SM
Washington	Seattle	3623 E. Marginal Way	L. Hamilton, VP
			C. R. Goetjen, SM

ALEMITE DIVISION
STEWART-WARNER CORP.
1826-52 Diversy 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
	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 & New Mexico
Utah	Salt Lake City	The Alemite Co.
Washington	Seattle	Alemite Co. of the Northwest

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	Los Angeles	F. J. Crawford	Manager
	Oakland	G. W. Schierman	"
Idaho	Pocatello	L. D. Myers	"
Montana	Billings	J. E. Begley	"
Oregon	Portland	A. D. Reichard	"

DISTRIBUTORS

Arizona	Phoenix	Neil B. McGinnis Equipment Co.
California	Bakersfield	San Joaquin Tractor Co.
	Eureka	Aikins Tractor Co.
	Los Angeles	Shaw Sales & Service Co.
	Redding	Shasta Truck & Equipment Co.
	Sacramento	Industrial Tractor Sales
	San Diego	Shaw Sales & Service Co.
Colorado	Denver	Power Equipment Co.
Idaho	Boise	Southern Idaho Equipment Co.
	Idaho Falls	" " " "
	Twin Falls	" " " "
Montana	Billings	Seitz Machinery Co.
	Great Falls	" " " "
	Kalispell	Mountain Tractor Co.
	Missoula	" " " "
	Sidney	Richland Machinery Co.
Nevada	Elko	A-D Machinery Co.
	Las Vegas	" " " "
	Reno	Reno Equipment Sales Co.
New Mexico	Albuquerque	Harry Cornelius Co.
	Roswell	Smith Machinery Co.
Oregon	Klamath Falls	Haupt Tractor Co.
	Medford	" " " "
	Portland	Wood Tractor Co.
	Springfield	Timber Tractor Co.
Utah	Moab	Cate Equipment Co., Inc.
	Salt Lake City	" " " "
Washington	Seattle	Pacific Hoist & Derrick Co.
	Spokane	American Machine Co.
Wyoming	Casper	Studer Tractor & Equipment Co.

AMERICAN BITUMULS & ASPHALT CO.
200 Bush Street
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	A. C. Kroeger
Oregon	Portland	5501 NW Front Ave	G. L. Ritter

AMERICAN CHAIN & CABLE CO., INC.
Bridgeport 2
Connecticut**PRODUCTS:** Wire Rope.**FACTORY BRANCHES**

California	San Francisco	Geo. F. Lehr	Manager
Colorado	Denver	Paul D. Steele	"

DISTRICT REPRESENTATIVES

California	Los Angeles	2216 S. Garfield	R. S. Heffner
Oregon	Portland	2210 NW Roosevelt	I. J. Schobert

Continued on next page

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

AMERICAN CHAIN & CABLE CO. (CONTINUED)

DISTRIBUTORS

Arizona	Kingman Phoenix	Tarr McComb & Ware Commercial Co. Complete Auto & Home Supply Co. Min-A-Con Equipment Co.
California	Tucson Alturas Arcata Chico Delano	Complete Auto & Home Supply Co. Moty & Van-Dyke, Inc. " " " " " " Sierra Tractor & Equipment Co. Manley Equipment Co. Treanor Equipment Co. Valley Auto Supply Co. Levi's Iron & Metal Co.
	El Centro Fresno Grass Valley Gridley Los Angeles " " " " " "	Mine Machinery & Supply Co. Sierra Tractor & Equipment Co. American Equipment & Body Co. Cable Distributors, Inc. Dinsmore Equipment Co. Gridley Equipment Co. Percival Steel & Supply Co.
	Porterville " " " " " "	Porterville Tractor Co. Treanor Equipment Co. Sierra Tractor & Equipment Co. Moty & Van-Dyke, Inc.
	Red Bluff Redding " " " " " "	Sierra Tractor & Equipment Co. Wilson Equipment Co. Braman-Dickerson Co. Sacramento Valley Tractor Co. Drake & Bullen Industries Supply Co.
	Redlands Riverside Sacramento San Diego " " " " " "	C.F. Bulotti Machinery Co. C.W. Marwedel Hansen Equipment Co. Marine Hardware Co., Inc. Geiger Iron Works, Inc. Treanor Equipment Co.
Colorado	San Francisco " " " " " "	Willow Creek Logging Supply Tomkins Hardware Co. Constructors Equipment Co. Bovard Supply Co. Colorado Builders Supply Co. Ray Corson Machinery Co. Engine Supply Co.
	Santa Maria San Pedro Stockton Tulare Visalia	Mid-Continent Supply Co. Mountain Iron & Supply Co. Al Plonkey & Associates Power Equipment Co. Quilitch Implement & Supply Co. Joe Smith Machinery Co. Mid-Continent Supply Co. Pacific & Western Industrial Supply S.W. Pressey & Son Mid-Continent Supply Co.
	Willow Creek Creede Denver " " " " " "	Kowallis & Richards Southern Idaho Equipment Co. Henderson Motors McVey's, Inc. Great Northern Tool & Supply Co. Hall-Perry Machinery Co. Mid-Continent Supply Co. Montana Motor Supply, Inc. Hall-Perry Machinery Co.
Grand Junction	" " " " " "	Great Northern Tool & Supply Co. Hall-Perry Machinery Co. Mike's Welding Supply Co. Helena Hardware Co. Ind. Supply Div. of Forest Products Great Northern Tool & Supply Co. Montana Motor Supply, Inc. Hall-Perry Machinery Co.
Idaho	Pueblo Sterling Boise Idaho Falls N. Lewiston Twin Falls	Sanford Tractor & Equipment Co. Equipment Sales & Mfg. Co. Gorman Engineering Co. of N. Mexico R.L. Harrison Co., Inc. Union Industrial Corp. Mid-Continent Supply Co. Oliver Equipment Co. Clowe & Cowan, Inc. Moty & Van-Dyke, Inc.
Montana	Billings " " " " " "	Gooch Logging Supply Active Equipment Co. Marshall-Wellis Co. Triangle Logging Supply, Inc. Gooch Logging Supply Ahlander Hardware Co. Ariel Davis Supply Co. Foulger Equipment Co. National Equipment Co.
	Bozeman Butte Chester Cut Bank Great Falls " " " " " "	Utah Service, Inc. Hulse Machinery Co. Jensen-Byrd Co. Cablecraft, Inc. Bovard Supply Co. Great Northern Tool & Supply Co. Mid-Continent Supply Co. Wortham Machinery Co.
	Helena Kalispell Kevin Livingston Missoula Reno	Frontier Supply Co. Mid-Continent Supply Co. Colony Corporation Wortham Machinery Co. " " " " " "
Nevada	" " " " " "	Frontier Supply Co.
New Mexico	Albuquerque " " " " " "	Mid-Continent Supply Co.
	Carlsbad Farmington Las Cruces Roswell Klamath Falls Lakeview Lyons Philomath Portland	
Oregon	" " " " " "	
	Roseburg Sweet Home Provo Salt Lake City " " " " " "	
Utah	" " " " " "	
	Springville Seattle Tacoma Casper	
Washington	" " " " " "	
Wyoming	Cheyenne Frontier New Castle Rock Springs " " " " " "	
	Sheridan Thermopolis	

AMERICAN COLEMAN CO.

301 S. Nevada Street
Littleton, ColoradoPRODUCTS: Front Drive Axles; All-Wheel Drive Trucks;
Pneumatic-Tired Bulldozers; Power Take-Offs;
Prime Movers.

DISTRIBUTORS

California	Berkeley	Work Hoist & Body Corp.
	Los Angeles	American Equipment & Body Co.
Colorado	Denver	American Coleman Export Co.
	" "	Truck Equipment Co.
	Littleton	American Coleman Co.
Montana	Billings	HCL Equipment Co.
	Great Falls	" " " " " "
	Helena	Beck Motor Co.
New Mexico	Albuquerque	Winter Weiss Co.
Oregon	Portland	Rudy Yost Truck Equipment Co.
Utah	Salt Lake City	The Lang Co.

AMERICAN HOIST & DERRICK CO.

63 S. Robert Street

Saint Paul 1, Minnesota

PRODUCTS: Derricks; Hoists; Crawler and Rubber Mounted
Cranes and Shovels; Blocks and Sheaves; Load
Binders; Crosby Clips; Cable Fittings.

DISTRICT MANAGERS

California	Long Beach	H.L. Lindberg
Washington	Mercer Island	R.H. Lampman

DISTRIBUTORS

Arizona	Phoenix	Cook Bros. Construction Mch. Co.
California	Los Angeles	" " " " " "
	Oakland	" " " " " "
Colorado	Denver	Constructors Equipment Co., Inc.
Idaho	Boise	The Sawtooth Company
Montana	Billings	Hall-Perry Machinery Co.
	Butte	" " " " " "
	Great Falls	" " " " " "
	Missoula	" " " " " "
New Mexico	Albuquerque	Contractors Equipment & Supply
Washington	Seattle	Andrews Mch. of Washington, Inc.
	Spokane	Construction Equipment Co.

AMERICAN LOGGING TOOL CORP.

4203 Union Blvd.

St. Louis 15, Missouri

PRODUCTS: Logging Tools including Peavies, Cant Hooks, Pike
Poles, Tong, Grapples, Load Binders.

FACTORY BRANCH MANAGERS

California	Los Angeles	2441 Hunter St.	R.H. Boag
	San Francisco	44 Potrero Ave.	J.E. Carmichael
Oregon	Portland	1518 NW Marshall	H.E. Tucker
Washington	Seattle	755 Edmunds St.	T. Verhoef

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 (No.)	Portland	2939 N. Willamette	F.F. Weigel
Oregon (So.)	" "	635 SE 41st St.	W.H. Galloway
Utah	Midvale	138 E. 7720 South	J.K. Hardy
Washington	Seattle	Smith Tower	L.D. Eneboe

AMERICAN TRACTOR CORP.

Churubusco
IndianaPRODUCTS: Crawler Tractors; Angle Dozers; Bulldozers;
Loaders from 1/3 to 1-1/2 cubic yard capacity;
Scrapers; Scarifiers and Winches.

REGIONAL SALES MANAGERS

Arizona	Phoenix	306 W. Windsor	W.W. Wallace
California	Los Altos	175 El Monte Ave.	G.A. Bell
Washington	Bellevue	4505 119th Ave. SW	W.P. Dutton

DISTRIBUTORS

Alaska	Anchorage	Yukon Equipment, Inc.
	Fairbanks	" " " " " "
Arizona	Glendale	Maricopa Equipment Co.
California	Berkeley	West Coast Engine & Equipment Co.
	Los Angeles	Garlinghouse, Fremont & Co.
Colorado	Denver	King & East Machinery Corp.
New Mexico	(El Paso)	Western Supply Co.
Oregon	Portland	Viking Equipment Co.
Utah	Salt Lake City	Machinery Center, Inc.
Washington	Seattle	Fray Equipment Co.

AMERICAN TRACTOR EQUIPMENT CORP.

2131 San Leandro Blvd.
Oakland 3, California

PRODUCTS: Bulldozers (inside and outside mounted); Road-builders (angle blade); Scrapers (hydraulic); Front End Loaders; Rock Rippers (tractor mounted, hydraulic); Scarifiers.

DISTRIBUTORS

See your local Crawler Tractor Distributor.

ANTHONY CO.

Streator
Illinois

PRODUCTS: Hoists; Dump Trailers; Dump Bodies; Lift Gates for motor trucks.

DISTRIBUTORS

Arizona	Phoenix	Auto Safety House
California	Los Angeles	Lambert Co., Ltd.
	Oakland	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.
Texas	El Paso	Equipment Supply Co., Inc.
Utah	Salt Lake City	Utah Truck Equipment Co.
Washington	Seattle	Nelson Truck Equipment Co.
	Spokane	Critzer Equipment Co.

ARMCO DRAINAGE & METAL PRODUCTS, INC.

703 Curtis Street
Middletown, Ohio

PRODUCTS: Corrugated Metal Pipe; End Sections; Spiral Welded Steel Pipe; Metal Retaining Walls; Guardrail, Structural Plate Pipe, Arches and Pipe-Arches; Steel Buildings; Pipe Shells and Caissons; Steel Pipe Piles; Water Control Gates; Flume; Steel Tunnel Liner Plate; Steel Sheeting; Snow Fence; Corrugated Metal Bridge Plank.

WESTERN SALES ORGANIZATION

Arizona	Tempe	C.J. Sturm	State Sales Mgr.
California	Berkeley	M.H. Bailey	Dist. Sales Mgr.
	Los Angeles	J.B. Evans	Dist. Sales Mgr.
Colorado	Denver	Roy Grant	Div. Sales Mgr.
Idaho	Boise	R.S. Shriver	Sales Engineer
Montana	Billings	J.B. Dean	State Sales Mgr.
New Mexico	Albuquerque	A.A. Mosher	State Sales Mgr.
Oregon	Portland	M.R. Ambuhl	Div. Sales Mgr.
	Salem	George Schwarz	State Sales Mgr.
Utah	Salt Lake City	F.R. Randle	Sales Mgr.
Washington	Olympia	R.E. Bodwell	State Sales Mgr.
Wyoming	Cheyenne	F.D. Aelits	Sales Engineer

THE ARO EQUIPMENT CORP.

Enterprise & Trevitt
Bryan, Ohio

PRODUCTS: Heavy Duty Manual, Electric and Air Operated Material and Lubricant Pumps; Hose Reels; Hand Guns; Grease Fittings; Aro-Pak Lubricators; Truck and Skid Mounted Lube-Rigs and Prime Lubricators.

FACTORY BRANCH

California	Los Angeles	3141 S. Grand	L.W. Lisle, Mgr.
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DIVISION MANAGERS

California	San Francisco	R.E. Sanderson
Colorado	Denver	E.P. Muller
Washington	Seattle	W.J. Pratto

DISTRIBUTORS

Arizona	Phoenix	Complete Auto & Home Supply
	"	Eaton Metal Products Co.
Tucson		Complete Auto & Home Supply
California	Fresno	Kerrick & Co.
	Los Angeles	Howard Supply Co.
	Oakland	" " "
	San Jose	Eastman Equipment Co.
Colorado	Denver	Eaton Metal Products Co.
Montana	Billings	" " "
	Great Falls	" " "
New Mexico	Albuquerque	" " "
Oregon	Portland	Began Equipment Co.
Utah	Salt Lake City	The Lang Co.
Washington	Seattle	Pratto Sales Co.
	Spokane	Salisbury Service Station Eqpt. Co.
Wyoming	Casper	Eaton Metal Products Co.

ARPS CORPORATION

New Holstein
Wisconsin

PRODUCTS: Trenchers; Angledozer.

DISTRIBUTORS

Arizona	(Los Angeles)	H.C. Shaw Co.
California	Los Angeles	" " "
Colorado	Denver	McCarty-Sherman Distributing Co.
Idaho	(Portland)	Mitchell, Lewis & Staver
Montana	Billings	Wymont Tractor & Equipment Co.
Nevada	(Los Angeles)	H.C. Shaw Co.
New Mexico	(Denver)	McCarty-Sherman Distributing Co.
Oregon	Portland	Mitchell, Lewis & Staver
Utah	Salt Lake City	Intermountain Ford Tractor Sales Co.
Washington	(Portland)	Mitchell, Lewis & Staver
Wyoming	(Denver)	McCarty-Sherman Distributing Co.
	(Billings)	Wymont Tractor & Equipment Co.

ARROW TOOLS, INC.

1900 S. Kostner Avenue
Chicago 23, Illinois

PRODUCTS: Pneumatic Accessory Tools; Chisels; Star Drills; Rivet Sets; Steel Erection Tools; Safety Chisel Retainers for Chipping and Riveting Hammers; Air Line Filters and Lubricators.

DISTRIBUTORS

Arizona	Phoenix	Superior Equipment Co.
	"	Western Machinery Co.
California	Los Angeles	James E. Simkins Co.
Colorado	Denver	Gunderson & Taylor Machinery Co.
	"	Union Supply Co.
New Mexico	Albuquerque	Equipment Sales & Mfg. Co.
Oregon	Portland	Oregon Tool Supply
Utah	Salt Lake City	Industrial Supply Co.
Wyoming	Casper	Wyoming Automotive Co.

ASPHALT EQUIPMENT CO., INC.

3314 Cherry Lane
Fort Wayne, Indiana

PRODUCTS: McConaughay Bituminous Mixers; Cutler Circulating Oil Heaters.

SALES REPRESENTATIVE

California	Mill Valley	1 Mercury St.	Wm. J. McDonnell
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DISTRIBUTORS

Alaska	(Seattle)	Caldwell Machinery Co.
California	Los Angeles	Bevis Machinery Co.
Colorado	Denver	Accessory Supply Co.
Idaho	(Salt Lake)	Machinery Sales Co.
Nevada	Elko	A & D Machinery Co.
New Mexico	Las Cruces	Oliver Equipment Co.
Utah	Salt Lake City	Machinery Sales Co.
Washington	Seattle	Caldwell Machinery Co.
Wyoming	(Denver)	Accessory Supply Co.

ATHEY PRODUCTS CORP.

5631 W. 65th Street
Chicago 38, Illinois

PRODUCTS: Pneumatic Tired Trailers; Universal Trailers; Forged Trak Wheels; Force Feed Loaders; Portable Breakers.

DISTRIBUTORS

Arizona	Phoenix	Arizona Machinery Co.
	Yuma	Braden Machinery Co.
California	Blythe	Honnen Machinery Co.
	Chico	Sierra Tractor & Equipment 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.
	Los Angeles	Shepherd Tractor & Equipment Co.
	Marysville	Marysville Tractor & Equipment Co.
	Merced	Halton Tractor Co.
	Modesto	Valley Tractor & Equipment Co.
	Napa	Berglund Tractor & Equipment Co.
	Oxnard	Wallace Machinery Co.
	Riverside	Johnson Tractor Co.
	Sacramento	Weaver Tractor Co.
	Salinas	Pringle Tractor Co.
	San Diego	San Diego Tractor & Equipment Co.
	San Jose	Ditz Bros.
	San Leandro	Peterson Tractor & Equipment Co.
	Santa Maria	Joseph G. Moore Co.
	Stockton	Holt Bros.

Continued on next page

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

ATHEY PRODUCTS CORP. (CONTINUED)

Colorado	Visalia	Treanor Equipment Co.
Idaho	Denver	McCoy Company
	Boise	Bunting Tractor Co., Inc.
	Idaho Falls	Parkinson Tractor 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	Sanford Tractor & Equipment Co.
	Las Vegas	James Cashman Co.
New Mexico	Albuquerque	R.L.Harrison Co., Inc.
Oregon	Klamath Falls	Crater Lake Machinery Co.
	LaGrande	Inland Machinery Co.
	Pendleton	Empire Machinery Co.
	Portland	Interstate Tractor & Equipment Co.
Utah	Logan	Peterson Tractor Service
	Salt Lake City	Wheeler-Kershaw Co.
Washington	Seattle	Collins Machinery Co.
	"	Northern Commercial Co.
	Spokane	Byrne-Ferris Machinery Co.
	Tacoma	Murphy-Campbell Co.
	Walla Walla	Braden Tractor & Equipment Co.
	Yakima	Webb Tractor & Equipment Co.
	Wenatchee	Columbia Tractor Co. of Wenatchee
Wyoming	Cheyenne	Wortham Machinery Co.

ATLAS POWDER CO.
1 Montgomery Street
San Francisco 4, California

PRODUCTS: Explosives; Blasting Supplies.

DISTRICT MANAGER

California	San Francisco	1 Montgomery St.	E.F.Daily
		Western Plant at Giant, California	

DISTRIBUTORS

Arizona	Flagstaff	Babbitt Bros. Trading Co.
	Phoenix	D.W.Jaquays & Co.
California	Arcata	Loggers & Mill Supply Co.
	Big Pine	Bedell's
	Fresno	Stewart & Nuss, Inc.
	Galt	Wm. Fischer
	Hanford	Randolph Service
	Hollister	Brown & Chappell
	Inyokern	Bert James Store
	Jackson	Jackson Lumber Yard, Inc.
	Lone Pine	Hopkins Hardware Co.
	Mariposa	Emile J. Trabucco
	Redding	Lowry Equipment Co.
	San Andreas	Treat's General Store
	San Rafael	L.P. McNear
	Santa Cruz	Hartley Hardware Co.
	Santa Paula	Watkins Hardware Co.
	Shoshone	Charles Brown
	Sonora	Hales & Symons, Inc.
	Taft	The Ford Alexander Corp.
	Turlock	D.W.Holbeck
	Viata	Mason Metal & Supply Co.
	Whittier	The Ford Alexander Corp.
	Woodlake	Woodlake Hardware & Furniture Co.
	Yreka	Cooley & Pollard Hardware
Colorado	Cripple Creek	The Stanker Supply Co.
Idaho	Boise	The Sawtooth Co.
	Hailey	Francis Jones, Inc.
Montana	Butte	W.P.Laville
Nevada	Battle Mountain	E.O.Swackhamer & Sons
	Carson City	George E. Meyers
	Elko	A.W.Hesson Co.
	Ely	Hall's Hardware
	Fallon	Western Powder Co.
	Lovelock	Pitt Mill & Elevator Co.
	Mina	K.D.Marakas
	Pioche	Western Powder Co.
	Reno	Contractors Equipment Rental Co.
	Tonopah	Western Powder Co.
	Virginia City	" " "
	Winnemucca	" " "
New Mexico	Albuquerque	New Mexico Equipment Co.
	Farmington	Bud Walter, Inc.
	Hobbs	American Powder Co.
	Socorro	B. & M. Feed Store
	Waterflow	Wheeler Trading Post
Oregon	Clackamas	Oregon-Washington Powder Co.
	Coos Bay	Coos Bay Supply Co.
	Cottage Grove	Pioneer Hardware Co.
	Medford	Bruce Bauer Lumber Co.
	Roseburg	Flegel Supply Co.
Utah	Mosab	Bud Walter, Inc.
	Salt Lake City	Western Powder Co.
Washington	Marshall	Oriard Powder Co.
	Raymond	Dennis Company
	Sedro Valley	Mt. Baker Hardware
	Shelton	Lumberman's Mercantile
	Yakima	Webb Tractor & Equipment Co.
Wyoming	Casper	Union Supply Co.

ATLAS SCRAPER & ENGINEERING CO.
6203 Maywood Avenue
Bell, California

PRODUCTS: Farm Equipment; Two-way Plows; Land Levelers; Grade-makers; Scrapers; Rippers; Dozers and Levelers for small tractors.

SEE YOUR LOCAL TRACTOR DEALER

AUSTIN-WESTERN WORKS
601 N.Farnsworth Avenue
Aurora, Illinois

PRODUCTS: Power Graders; Road Rollers; Street Sweepers; Hydraulic Cranes.

DISTRICT MANAGERS

California	S.San Francisco	149 S.Linden Ave.	Fred Bourquin
Colorado	Denver	3892 Perry St.	W.R.Kays
Washington	Spokane	W.532 27th Ave.	E.L.Kleckner

DISTRIBUTORS

Alaska	Anchorage	Airport Machinery Co.
Arizona	Phoenix	Shriver Machinery Co.
California	Los Angeles	Smith-Booth-Usher Co.
	San Francisco	Edward R. Bacon Co.
	Denver	Macdonald Equipment Co.
Colorado	Boise	Engineering Sales Service, Inc.
Idaho	Billings	Hall-Perry Machinery Co.
Montana	Butte	" " "
	Great Falls	" " "
	Missoula	" " "
Nevada	Reno	C.D.Roeder Equipment Co.
New Mexico	Albuquerque	N.C.Ribble Co.
Oregon	Portland	Columbia Equipment Co.
Utah	Salt Lake City	Western Machinery Co.
Washington	Seattle	Columbia Equipment Co.
	Spokane	" " "
Wyoming	Casper	Kereml Tractor & Equipment Co.
	Cheyenne	" " "

BADGER MACHINE CO.
1124 W.Fifth Street
Winona, Minnesota

PRODUCTS: HOPTO Diggers; Badger Trenchers.

WEST COAST REGIONAL MANAGER

California	Carmichael	4817 Melvin Dr.	Joseph Tandeski
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DISTRIBUTORS

Alaska	(Seattle)	Northern Commercial Co.
	"	Yukon Equipment Co.
California	Los Angeles	Calweld, Inc.
	Sacramento	Island Equipment Co.
	San Francisco	Contractors Machinery Co.
Colorado	Denver	King & East Machinery Co.
Montana	Billings	Caird Engineering Works
	Helena	" " "
	Kalispell	Mountain Tractor Co.
	Missoula	" " "
Nevada	Reno	L.R.Springmeyer Equipment Co.
Oregon	Portland	Nelson Equipment Co.
Utah	Salt Lake City	Arnold Machinery Co.
Washington	Seattle	Air-Mac, Inc.
	Spokane	Andrews Equipment Service of Wn., Inc.
Wyoming	Casper	Moss Equipment Co.

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

PRODUCTS: Shovels; Cranes; Draglines; Pull-Shovels; Truck Cranes.

FACTORY BRANCH

Washington	Seattle	1932 1st Ave.S.	W.D.Haley, Mgr.
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FACTORY REPRESENTATIVES

California	LaMirada	14120 E.Rosecrans
		T.A.Griffin, District Manager
	S.San Francisco	149 S.Linden Ave.
		Ralph Rogers, Asst. Dist. Mgr.

Continued on next page

C. I. T. CORPORATION

120 Montgomery Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

BALDWIN-LIMA-HAMILTON CORP. (CONTINUED)**DISTRIBUTORS**

Arizona	Phoenix	Shriver Machinery Co.
California	Eureka	McGaraghan Supply Co.
	Los Angeles	Smith-Booth-Usher Co.
	Oakland	Bay Cities Equipment, Inc.
	Redding	Cascade Industrial Supply
	San Jose	Bay Cities Equipment, Inc.
Colorado	Denver	Faris-Moritz Equipment Co.
Idaho	Boise	Feenaughty Machinery Co.
Montana	Billings	Hall-Perry Machinery Co.
	Butte	" " " "
	Great Falls	" " " "
	Missoula	" " " "
Nevada	Reno	Reno Equipment Sales Co.
New Mexico	Albuquerque	N.C.Ribble Co.
Oregon	Klamath Falls	Cascade Industrial Supply
	Portland	Feenaughty Machinery Co.
Utah	Salt Lake City	Heiner Equipment & Supply Co.
Washington	Seattle	Evans Engine & Equipment Co.
	Spokane	Modern Machinery Co.

PRODUCTS: Austin-Western Crushing, Screening and Washing Equipment.

Arizona	Phoenix	Shriver Machinery Co.
California	Los Angeles	Smith-Booth-Usher Co.
	San Francisco	Edward R. Bacon Co.
	" "	Western Machinery Co.
Colorado	Denver	Macdonald Equipment Co.
Idaho	Boise	Engineering Sales Service, Inc.
Montana	Billings	Hall-Perry Machinery Co.
	Butte	" " " "
	Great Falls	" " " "
	Missoula	" " " "
Nevada	Reno	C.D. Roeder Equipment Co.
New Mexico	Albuquerque	N.C.Ribble Co.
Oregon	Portland	Columbia Equipment Co.
Utah	Salt Lake City	Western Machinery Co.
Washington	Seattle	Columbia Equipment Co.
	Spokane	" " " "
Wyoming	Casper	Keremi Tractor & Equipment Co.
	Cheyenne	" " " "

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

PRODUCTS: Asphalt Mixing Plants; Asphalt Finishers; Permanent and Portable Conveyors; Aggregate, Coal and Snow Loaders; Car Unloaders; Ditchers.

FACTORY BRANCHES

California	San Mateo	2191 S. El Camino Real
	M.C. Ham	Area Sales Manager
	H.E. Jackson	Area Service Manager
	E.L. Benson	District Mgr., Conveyor Sales

DISTRIBUTORS

Arizona	Phoenix	Road Machinery Co.
California	Los Angeles	Santa Fe Equipment Co., Inc.
	San Francisco	Coast Equipment Co.
Colorado	Denver	Ray Corson Machinery Co.
Idaho	Boise	Engineering Sales Service, Inc.
Montana	Billings	Western Construction Eqpt. Co.
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Oregon	Portland	Columbia Equipment Co.
Utah	Salt Lake City	Kimball Equipment Co.
	" " "	The Mine & Smelter Supply Co.
Washington	Seattle	The Carrington Company
Wyoming	Cheyenne	Keremi Tractor & Equipment Co.

BARCO MANUFACTURING CO.
500 N. Hough Street
Barrington, Illinois

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

FACTORY REPRESENTATIVE

California	Santa Monica	718 16th St.	C.E. Allen
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DISTRIBUTORS

Alaska	(Seattle)	Glenn Carrington & Co.
Arizona	Phoenix	D.W. Jaquays
California	Los Angeles	Fornaciari Co.
	San Francisco	C.H. Bull Co.
Colorado	Denver	Ray Corson Machinery Co.
Montana	Billings	Great Northern Tool & Supply Co.
New Mexico	(El Paso)	Francis Wagner Co.
Oregon	Portland	Contractors Equipment Co.
Utah	Salt Lake City	Arnold Machinery Co.
Washington	Seattle	Sahlberg Equipment, Inc.

BARNARD & LEAS MANUFACTURING CO., INC.
1200 12th Street Southwest
Cedar Rapids, Iowa

PRODUCTS: B & L Elevating Grader Attachment for Gallion 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	680 Hegenberger Rd.	Wm. Stillwell, Mgr.
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FACTORY REPRESENTATIVES

California	Los Angeles	1726 Maltman Ave.	Harold Feldstein
Washington	Seattle	809A Terminal	Wm. A. Matzke, Jr.
		Sales Bldg.	

DISTRIBUTORS

Alaska	Anchorage	Craig Taylor Equipment & Supply Co.
Arizona	Phoenix	O.S. Stapley Co.
	" "	Submersible Pump Co.
California	Berkeley	Central Equipment Co.
	Eureka	Learner-Eureka, Inc.
	Fresno	Fresno Pump & Supply Co.
	Los Angeles	Larson Equipment Co.
	Oakland	Hilco Industrial Supply
	Redding	Lowry Equipment Co.
	Sacramento	Central Equipment Co.
	San Francisco	The Rix Co., Inc.
Idaho	Boise	Western Equipment Co.
Oregon	Klamath Falls	Moty & Van Dyke
	Portland	Mitchell, Lewis & Staver
	" "	R.M. Wade & Co.
Washington	Seattle	Cascade Machinery Co.
	" "	Dagg Equipment Co.
	" "	Star Machinery Co.
	" "	R.M. Wade & Co.
	Spokane	Star Machinery Co.
	Wenatchee	Tacoma Plumbing Supply Co.
	Yakima	Rankin Equipment Co.

BAUGHMAN MANUFACTURING CO., INC.
158 Shipman Road
Jerseyville, 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; Side Dump Transport Trailers; Bulk Material Truck or Transport Trailers.

DISTRIBUTORS

Arizona	Marana	Marana Equipment, Inc.
	Phoenix	Guerin Implement Co.
	" "	Superior Equipment Co.
	" "	Western Machinery Co.
California	Yuma	Beeler-Thomas Implement Co., Inc.
	Berkeley	Berkeley Industrial Supply Co., Inc.
	La Habra	I.J. Cool Company
	Los Angeles	Hurt Conveyor Co.
	Modesto	Hengst & Curran
	Oakland	Benner-Nawman, Inc.
	" "	Mill Engineering & Machinery Co.
	South Gate	Cost Reduction Equipment Co.
	Stockton	Graco
	Tulare	Jim Ingle Co.
	Turlock	Lakeside Industries
Colorado	Adams City	Al Willis Sales Co.
	Denver	Gunderson-Taylor Machinery Co.
	" "	Timpte Brothers, Inc.
Idaho	Boise	Western Machinery Co.
Montana	Billings	Starline Equipment Co.
	Great Falls	Industrial Equipment Co.
	Helena	Normont Equipment Co.
	Kalispell	Caird Engineering Works
	Anthony	Treasure State Equipment Co.
New Mexico	Roswell	Southwest Fertilizer & Chemical Co.
	" "	Lane Sales Co.
	" "	Smith Machinery Co., Inc.
Oregon	Amity	Burlingham-Meeker Lime Co.
	Salt Lake City	Lund Machinery Co.
Washington	Seattle	Air-Mac, Inc. of Washington
	" "	Northern Commercial Co.
	" "	Thurlow-Moe, Inc.
Wyoming	Spokane	American Machine Co.
	Casper	Studer Tractor & Equipment Co.

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

ARTHUR C. BAUMANN
7011 Groys Avenue
Philadelphia 42, Pennsylvania

PRODUCTS: Complete Line of Portable Oil & L-P (Propane) Gas Fired Heating Units.

BAY CITY SHOVELS, INC.
Bay City
Michigan

PRODUCTS: Power Shovels and Cranes, crawler and pneumatic tire mounted.

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Los Angeles	Brown-Bevis Industrial Eqpt. Co.
	San Francisco	Robinson Equipment Co.
Colorado	Denver	Ray Corson Machinery Co.
Idaho	Boise	Feenaughty Machinery Co.
Montana	Helena	Rock Hand & Co.
Oregon	Portland	Feenaughty Machinery Co.
Utah	Salt Lake City	Foulger Equipment Co.
Washington	Seattle	Feenaughty Machinery Co.
	Spokane	"

BEEBE BROS.
2724 Sixth Ave. So.
Seattle 4, Washington

PRODUCTS: Hand Hoists and Winches.

BE-GE MANUFACTURING CO.
P.O. Box 67, Leavesley Road
Gilroy, California

PRODUCTS: WSS, SS, & ST Speedhulls (Carryalls); Trenchers.

DISTRIBUTORS

Arizona	Phoenix	Arizona Machinery Co.
	"	The O.S. Stapley Co.
	Yuma	Braden Tractor Co.
California	Bakersfield	Davies Machinery Co.
		Kern County Equipment Co.
	El Centro	Faure Tractor & Equipment Co.
	Fresno	Allied Equipment Co.
	"	Budd & Quinn, Inc.
	Hanford	Davies Machinery Co.
	"	Chappell & Serpa Implement Co.
	Lancaster	J.H. Degan, Inc.
	Merced	Shepherd Tractor & Equipment Co.
	Modesto	Valley Tractor Co.
	"	"
	Oxnard	Stanislaus Implement & Hardware
	Sacramento	L.G. Maulhardt Equipment Co.
	Salinas	Weaver Tractor Co.
	"	Ashton Implement Co.
	San Diego	Pringle Tractor Co.
	"	San Diego Tractor & Equipment Co.
	San Jose	Southern Equipment & Supply Co.
	Santa Maria	Valley Equipment Co.
	Stockton	Joseph G. Moore Co.
	"	Holt Bros.
	Tulare	Moore Equipment Co.
	Visalia	Jim Ingle Co.
Colorado	Denver	Treanor Equipment Co.
Montana	Billings	McCoy Company
	"	Seltz Machinery Co.
	Butte	Wortham Machinery Co.
	Sidney	Central Machinery Co.
	"	Tractor & Equipment Co.
Nevada	Las Vegas	Northland Machinery Co.
	"	James Cashman
	Reno	Hilton's, Inc.
New Mexico	Albuquerque	Sanford Tractor & Equipment Co.
Oregon	Portland	J.D. Coggins & Co.
	"	R.L. Harrison Co.
	Utah	Russ Chamberlin Co.
	Ogden	Ogden Implement Co.
	Salt Lake City	The Lang Co.
	"	Wheeler-Kershaw Co.
Washington	Spokane	Calkins Manufacturing Co.
Wyoming	Cheyenne	Wortham Machinery Co.

BETHLEHEM PACIFIC COAST STEEL CORP.
20th & Illinois Streets
San Francisco 19, California

PRODUCTS: Drill Steel; Fasteners; Fabricated Structural Steel; Sheet Piling; Wire Rope; Reinforcing Steel.

WESTERN SALES OFFICES

Los Angeles	6000 S. Boyle Ave.	L. J. Soracco	Manager of Sales
San Francisco	20th & Illinois	C. D. Howe	"
Portland	1010 SW 14th Ave.	L. S. Kuhn	"
Seattle	3651 E. Marginal Wy	H. E. Gray	"

SALES REPRESENTATIVES

Honolulu	State Savings & Loan Bldg.	J. F. Moody
Phoenix	213 North First Avenue	T. E. Neff
Spokane	West 725 Sprague Street	M. P. Schranger

THE BLACK & DECKER MANUFACTURING CO.
Towson 4
Maryland

PRODUCTS: Portable Electric Drills; Saws; Screwdrivers; Nut Runners; Tappers; Shears; Bench Grinders; Die Grinders; Portable Grinders; Sanders; Buffers; Hammers; Glue Pots; Vacuum Cleaners (Industrial); Valve Refacers; Valve Seat Grinders; Wire Wheel Brushes; Attachments and Supplies.

FACTORY BRANCH MANAGERS

California	Los Angeles	2432 S. Broadway	R. E. Stone
	San Francisco	4343 3rd Street	Paul Pounds
Colorado	Denver	1010 Bannock St.	R. L. Mick
Oregon	Portland	1640 NW Johnson	Joe L. Gehring
Washington	Seattle	434 8th Ave. N.	P. W. Lund
	Spokane	N. 2706 Hemlock	Gus Nelson

REGIONAL SALES MANAGER

California	Richmond	1732 Wright Ave.	L. C. Kaefer
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BLACKHAWK MANUFACTURING CO.
5325 W. Rogers Street
Milwaukee 46, Wisconsin

PRODUCTS: Hydraulic Jacks, 1-1/2 through 100 tons capacity; Remote Control Porto-Power Jacks through 50 tons; Pipe Benders; Knock-Out Punches; Gauge-equipped Jacks

WAREHOUSE

California	Los Angeles	160 W. 23rd St.
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DISTRICT MANAGER

California	Orinda	34 Van Tassel Lane	A. J. Comerford
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TERRITORY MANAGERS

California	Glendora	831 E. Bennett Ave.	B. E. Robertson
	Sacramento	4441 Juno Way	Frank English

BLAW-KNOX CO., CONSTRUCTION EQUIPMENT DIV.
Blawnox, Pennsylvania
Mattoon, Illinois

EQUIPMENT MANUFACTURED OR SOLD FROM MATTOON

Subgraders; Concrete Spreaders; Concrete 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.

BLAW-KNOX COMPANY
Blaw-Knox Equipment Division
Blawnox, Pennsylvania

EQUIPMENT MANUFACTURED AT BLAWNOX

Heavy Steel Forms for dams and tunnels; Clamshell Buckets for construction and industrial services; Grapples for pulpwood, rock handling, railroad ties and incinerators; Air Operated Concrete Buckets; Manually Operated Concrete Buckets.

WEST COAST SALES MANAGER

California	San Francisco	681 Market St.	J. P. Cullen
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DISTRIBUTORS

Alaska	(Seattle)	Northern Commercial Co.
	"	Yukon Equipment Co.
Arizona	Phoenix	O. S. Stapley Co.
California	Oakland	C. H. Grant Co.
	Los Angeles	Shaw Sales & Service Co.
Colorado	Denver	McCoy Company
Idaho	Boise	Intermountain Equipment Co.
	"	Western Equipment Co.
Montana	Missoula	Treasure State Equipment Co.
Nevada	(Los Angeles)	Shaw Sales & Service Co.
	(Oakland)	C. H. Grant Co.
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Portland	Contractors Equipment Corp.
Utah	Salt Lake City	Foulger Equipment Co.
Washington	Seattle	Hatten Machinery Co.
	"	Washington Machinery Co.
	Spokane	Intermountain Equipment Co.
	"	Western Equipment Co.
Wyoming	(Denver)	Colorado Builders Supply 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 Batchers; Steel Bins; Screens - Cylindrical, Conical and Vibrating Feeders - Apron and Reciprocating; Structural Steel; Special Machinery; Steel Tanks and Pressure Vessels.

BOSTON WOVEN HOSE & RUBBER CO.P.O. Box 1071
Boston 3, Massachusetts**PRODUCTS:** Belting; Couplings; Hose; Hose Fittings; Hose, Industrial; Hose, Fire; Tubing; V-Belts.**DISTRICT REPRESENTATIVES**

Arizona	Tucson	2521 E. 4th St.	George A. Hybl
California	Los Angeles	1052 W. 6th St.	W.E. Rivinius
	San Francisco	995 Market St.	David S. Riser
Colorado	Denver	845 Racine St.	J. H. Steffensen
Utah	Salt Lake City	1016 Military Dr.	Gail S. Moffat
Washington	Seattle	911 Western Ave.	S.B. Riser

BRANICK MANUFACTURING CO., INC.1213 NP Avenue
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 Valves; Air Operated Earth Mover and Truck Jacks.**DISTRIBUTORS**

Arizona	Phoenix	Arizona Rubber Co.
	"	Phoenix Auto Supply Co.
California	Tucson	Motor Supply Co.
	Los Angeles	Balloon Tire Mould Co.
	Oakland	Union Rubber Co.
	Sacramento	Sacramento Wheel Service
	San Diego	San Diego Motor Parts
	San Francisco	Gurley-Lord Co.
Colorado	Denver	Hendrie & Bolthoff
	"	The McGee Co.
	"	O.K. Service Supply Co.
Montana	Littleton	Valley Motor Supply Co.
	Great Falls	" " " "
Nevada	Reno	Nevada Auto Supply
	"	Rissone's
New Mexico	Albuquerque	Kohlsaat Tank & Emt. Co.
	Las Cruces	Cruces Motor Parts
	Roswell	Roswell Motor Supply Co.
Oregon	Portland	Russ Chamberlin Co.
Utah	Salt Lake City	Tire Shop Supply Co.
Washington	Seattle	Automotive Parts & Equipment Co.
	"	Ballou & Wright
	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**

Arizona	Phoenix	4518 N. 12th Pl.	William Plutte
California	Van Nuys	5442 Aliott Ave.	W.J. Markley
Washington	Bellevue	10255 NE 21st Pl.	Carl Peterson

DISTRIBUTORS

Arizona	Phoenix	Motor Supply Co.
California	Los Angeles	Electric Equipment Co.
	San Francisco	Frank Edwards Co.
Colorado	Denver	Spitzer Electric Co.
Montana	Billings	Original Equipment Co.
New Mexico	Albuquerque	Spitzer Electric Co. of New Mexico
Oregon	Portland	Tracey & Co.
Utah	Salt Lake City	Frank Edwards Co.
Washington	Seattle	Charles Stewart, Inc.
	Spokane	Sunset Electric Co.

BRISCOE MANUFACTURERS OF CALIFORNIA4129 N. Del Norte Avenue
Kerman 2, California**PRODUCTS:** Ditchers; Tractor-Slopers; Grader-Slopers.**FACTORY PERSONNEL**

Fresno	1587 Safford Ave.	Kenneth Goeltz	Sales Engineer
Kerman	4341 N. Del Norte	M.E. Briscoe	General Manager
Madera	1709 W. 4th St.	F.N. Peregoy	Asst. Gen. Mgr.

BRODERICK & BASCOM ROPE CO.4203 Union Boulevard
St. Louis 15, Missouri**PRODUCTS:** Wire Rope and Slings.**FACTORY BRANCHES**

California	Los Angeles	R.H. Boag	Manager
	San Francisco	J.E. Carmichael	"
Oregon	Portland	H.E. Tucker	"
Washington	Seattle	T. Verhoef	"

Continued in next column

BRODERICK & BASCOM ROPE CO. (CONTINUED)**DISTRIBUTORS**

Arizona	Phoenix	Arizona Machinery Co.
California	Colusa	I.G. Zumwalt Co.
	Fresno	Contractors Emt. & Supply Co.
	Sacramento	Weaver Tractor Co.
	San Diego	Winn Supply Co.
	San Francisco	Calif. Industrial Supply Co.
	Stockton	Holt Bros.
Colorado	Denver	Mine & Smelter Supply Co.
Idaho	Boise	Starline Equipment Co.
	"	Western Equipment Co.
	Idaho Falls	" " " "
	Lewiston	Nez Perce Tractor & Equipment Co.
	Pocatello	Western Equipment Co.
	Twin Falls	" " " "
Montana	Billings	Seitz Machinery Co.
	Helena	Caird Engineering Works
	Miles City	Tractor & Equipment Co.
	Missoula	Westmont Tractor & Equipment Co.
Oregon	Sidney	Richland Machinery Co.
	Baker	Basche-Sage Hardware Co.
	Bend	Moty & Van Dyke, Inc.
	Coquille	Enlund Equipment Co.
	Eugene	Eugene Equipment Co.
	John Day	Moty & Van Dyke, Inc.
	Lebanon	" " " "
	Medford	Hubbard Bros., Inc.
	Pendleton	Empire Machinery Co.
	Portland	Wood Tractor Co.
	Roseburg	Industrial Supply Co.
	The Dalles	Dielschneider Equipment Co.
Utah	Salt Lake City	Wheeler-Kershaw Co.
Washington	Aberdeen	I.G. Isaacson Co.
	Bellingham	Industrial Supply Co.
	Dayton	Stone Machinery Co.
	Everett	Greenshields Industrial Supply Co.
	Spokane	Byrne Machinery Co.
	Tacoma	Murphy-Campbell Co.
	Yakima	Webb Tractor & Equipment Co.

WM. BROS BOILER & MANUFACTURING CO.1057 Tenth Avenue S.E.
Minneapolis 14, Minnesota**PRODUCTS:** Compaction Equipment; Rubber Tired and Steel Rollers; Bituminous Equipment; Steam Generators; Hot Oil Heaters.**SALES REPRESENTATIVE**

Colorado Denver 417 Jackson St. O.G. Hollimon

DISTRIBUTORS

Alaska	(Seattle)	Yukon Equipment Co.
Arizona	Phoenix	Arizona Equipment Sales, Inc.
California	Los Angeles	Crook Company
	San Francisco	Coast Equipment Co.
Colorado	Denver	McCoy Company
Idaho	Boise	Western Equipment Co.
Montana	Billings	Western Construction Emt. Co.
	Great Falls	" " " "
Nevada	Reno	Pioneer Equipment Co.
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Eugene	Loggers & Contractors Mchy. Co.
	Portland	" " " "
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Seattle	Totem Equipment Co.
	Spokane	Modern Machinery Co.
Wyoming	Casper	Keremi Tractor & Equipment Co.
	Cheyenne	" " " "

BROWNING MANUFACTURING CO.111 Humble Avenue
San Antonio 6, Texas**PRODUCTS:** Sheepfoot Rollers; Pneumatic Tired Rollers; Rock Busters; Self-propelled Pneumatic Tired Rollers; Welding Machines; Hard Facing Electrodes.**DISTRIBUTORS**

Arizona	Phoenix	Road Machinery Co.
California	Los Angeles	Calavar Corporation
	Oakland	Blakemore Equipment Co.
Colorado	Denver	Constructors Equipment Co., Inc.
Idaho	Pocatello	Western Machinery Co.
Montana	Billings	Hall-Perry Machinery Co.
	Butte	" " " "
	Great Falls	" " " "
	Missoula	" " " "
Nevada	(Salt Lake)	Western Machinery Co.
	(Los Angeles)	Calavar Corporation
New Mexico	Albuquerque	N.C. Ribble Co.
Oregon	Medford	Cal-Ore Machinery Co.
	Portland	Constructors Equipment Co.
Utah	Salt Lake City	Western Machinery Co.
Washington	(Portland)	Constructors Equipment Co.
Wyoming	(Billings)	Hall-Perry Machinery Co.
	Casper	Moss Equipment & Supply Co.
	(Denver)	Constructors Equipment Co.
	(Salt Lake)	Western Machinery Co.

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

BRUNNER & LAY OF LOS ANGELES, INC.
 2425 East 37th Street
 Los Angeles 58, California

PRODUCTS: Carbide Rok-Bits; Intra-Set Drill Steel; Drill Steel; Moll Points; Clay Spades; Paving Breaker Tools; Clay Digger and Chipping Hammer Tools.

FACTORY BRANCH MANAGERS

California	San Francisco	2266 Shafter	Vern Terry
Oregon	Portland	660 N. Tillamook	Lloyd Rauw

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
"	"	D.W. Jaquays
"	"	Superior Equipment Co.
"	"	Western Machinery Co.
California	Tucson	Ed Holderness
"	Bakersfield	Inland Equipment Co.
"	Escondido	Webb Bros.
"	Fresno	Edward R. Bacon Co.
"	"	Contractors Equipment & Supply
"	"	George M. Philpott Co.
"	Los Angeles	Crook Company
"	"	Essick Manufacturing Co.
"	"	Gridley Equipment Co.
"	"	Larson Equipment Co.
"	"	Mine & Mill Machinery Co.
"	"	Pneumatic Machinery Co.
"	"	Warnock Bancroft Equipment Co.
Redding	"	Paul Droscher Equipment Co.
"	"	Lowry Equipment Co.
Sacramento	"	Edward R. Bacon Co.
"	"	George M. Philpott Co.
"	"	Western Traction Co.
San Bernardino	"	W.K. Equipment Co.
San Diego	"	Gould Hardware & Machinery Co.
"	"	Kenton Equipment Co.
"	"	Kroeger Equipment Co.
"	"	Standard Iron & Supply Co.
San Francisco	"	Edward R. Bacon Co.
"	"	Coast Equipment Co.
"	"	George M. Philpott Co.
"	"	Terry Tools
"	"	Tinkler Equipment Co.
Colorado	Denver	Gunderson-Taylor Co.
"	"	Pearce Drill Steel Shop
"	"	Power Equipment Co.
"	"	Western Machinery Co.
Grand Junction	"	Gunderson-Taylor Co.
"	"	S & M Supply Co.
"	"	Western Machinery Co.
Nevada	Elko	A & D Machinery Co.
"	Las Vegas	Blystone Equipment Co.
"	"	Inland Service & Supply Co.
"	"	McQuay Supply Co.
"	Reno	Pioneer Equipment Co.
"	"	Reno Equipment Co.
"	"	Sierra Machinery Co.
"	"	Tractor Equipment Co.
New Mexico	Albuquerque	Contractors Equipment Co.
"	"	Harry Cornelius Co.
"	"	R.L. Harrison
"	"	Lively Equipment Co.
"	"	N.C. Ribble Co.
Utah	Salt Lake City	Arnold Machinery Co.
"	"	Bogue Supply Co.
"	"	Western Machinery Co.

BRUNNER & LAY OF PORTLAND, INC.
 660 N. Tillamook Street
 Portland 12, Oregon

PRODUCTS: Carbide Rok Bits; Intra-Set Drill Steel; Drill Steel; Moll Points; Clay Spades; Paving Breaker Tools; Clay Digger and Chipping Hammer Tools.

DISTRIBUTORS

Canada	Calgary	Ferguson Alberta Supply
"	Edmonton	Pardee Equipment Co.
"	Vancouver	C R D Company
Hawaii	Honolulu	American Factors
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.
Montana	Billings	Western Bearings Co.
"	"	Seitz Machinery Co.
"	"	Western Construction & Equipment Co.
Butte	"	Butte Machinery Co.
"	"	Hall-Perry Machinery Co.
Great Falls	"	"
Helena	"	Caird Engineering Works
"	"	Montana Powder & Equipment
Missoula	"	Miller Machinery Co.

Continued in next column

BRUNNER & LAY OF PORTLAND, INC., (CONTINUED)

Oregon	Coquille	Enlund Equipment Co.
"	Coos Bay	Coos Bay Supply Co.
"	Eugene	Howard-Cooper Corp.
"	"	Loggers & Contractors Mch. Co.
"	"	Woodbury Company
"	Klamath Falls	Cascade Industrial Supply Co.
"	"	Klamath Powder & Equipment Co.
"	LaGrande	Industrial Machinery & Supply
"	Medford	Cal-Ore Machinery Co.
"	North Bend	Oregon Pacific Co.
"	Pendleton	Empire Machinery Co.
"	Portland	Andersen Machinery Co.
"	"	Andrews & Andrews Machinery Co.
"	"	Balzer Machinery Co.
"	"	Clyde Equipment Co.
"	"	Contractors Equipment Co.
"	"	P.L. Crooks & Co.
"	"	Howard-Cooper Corp.
"	"	Lacey Supply Co.
"	"	Loggers & Contractors Machinery Co.
"	"	Nelson Equipment Co.
"	"	George M. Philpott Co.
"	"	Rogers Machinery Co.
"	"	Senter Tools Service
"	"	Woodbury Co.
"	Reedsport	Reedsport Logging Supply
"	Roseburg	Howard-Cooper Corp.
"	Sweet Home	Gooch Logging Supply
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Bellingham	Morse Hardware Co.
"	"	Industrial Supply Co.
"	Everett	Everett Hardware
"	Kelso	Charles E. Hansen
"	Seattle	Bow Lake Equipment Co.
"	"	Clyde Equipment Co.
"	"	A.H. Cox & Co.
"	"	Gardner-Denver Co.
"	"	Pacific Northwest Industries
"	"	Universal Equipment Co.
"	Spokane	Andrews Equipment Service
"	"	Bitco, Inc.
"	"	Blackwell Coleman
"	"	Construction Equipment Co.
"	"	Rental Equipment Co.
"	"	Western Machinery Co.
"	"	Modern Machinery Co.
Wyoming	Rock Springs	Wortham Machinery Co.

BUCK EQUIPMENT CORP.
 720 Anderson Ferry Road
 Cincinnati 38, Ohio

PRODUCTS: Buck Hoisting Machines and Accessories.

DISTRIBUTORS

Arizona	Phoenix	Superior Equipment Co.
California	Fresno	Beatty Salfay Scaffolds & Eqp. Co.
"	Los Angeles	Gridley Equipment Co.
"	Monterey	Donald R. Innes
Colorado	Denver	King & East Machinery Co.
Oregon	Eugene	Salfay Scaffolds Co. of Eugene
Utah	Salt Lake City	C.H. Jones Equipment Co.
Washington	Seattle	Star Machinery Co.
"	Spokane	"

BUCYRUS-ERIE CO.
 South Milwaukee
 Wisconsin

PRODUCTS: Shovels; Cranes; Draglines; Hydrocranes; Hydrohoes

FACTORY PERSONNEL

California	Los Angeles	H.E. Lowe	Manager
"	S. San Francisco	J.H. Sackett	"
Washington	Seattle	R.P. Brooks	"

DISTRIBUTORS

Arizona	Phoenix	Road Machinery Co.
California	Bakersfield	Crook Company
"	Berkeley	West Coast Engine & Eqp. Co.
"	Los Angeles	Crook Company
Colorado	Denver	The Colorado Builders Supply Co.
Idaho	Boise	Intermountain Equipment Co.
"	Pocatello	"
Montana	Billings	Great Northern Tool & Supply Co.
"	Kalispell	Westmont Tractor Co.
"	Missoula	"
Nevada	Reno	Tractor Equipment Co.
New Mexico	Albuquerque	R.L. Harrison Co.
"	Carlsbad	The Border Machinery Co.
Oregon	Portland	Clyde Equipment Co.
Utah	Salt Lake City	The Lang Company
Washington	Seattle	Clyde Equipment Co.
"	Spokane	Northern Commercial Co.
"	"	Intermountain Equipment Co.

C. I. T. CORPORATION

120 Montgomery Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

UDA DIVISION

Allis-Chalmers Manufacturing Co.
Box 512
Milwaukee 1, Wisconsin

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

FACTORY BRANCH MANAGERS

California	Los Angeles	4440 E. 49th St.	F.J. Crawford
	Oakland	1400 Park Ave.	G.W. Schierman
Idaho	Pocatello	605 S. First St.	L.D. Myers
Montana	Billings	2501 4th Ave. N.	J. Earl Begley
Oregon	Portland	1305 SE Union Ave	A.D. Reichard

DISTRIBUTORS

Arizona	Phoenix	Arizona Equipment Sales
California	Los Angeles	Anderson-Bevier Co.
	Newport Beach	Lido Shipyard
	San Francisco	Utility Trailer Sales - Engine Div.
	Wilmington	Diesel Control Corp.
Nevada	Elko	A-D Machinery Co., Inc.
Oregon	Portland	Hamilton Engine Sales, Inc.
Utah	Salt Lake City	Motor Mercantile Co.
Washington	Seattle	Fremont Electric Co.
	"	Pacific Fishing & Trading Co.
	"	Yukon Equipment Co., Inc.

BUFFALO-SPRINGFIELD ROLLER CO.

1210 Kenton Street
Springfield, Ohio

PRODUCTS: Self-Propelled Road Rollers and Heavy Compaction Units.

WESTERN DISTRICT REPRESENTATIVE

Utah	Salt Lake City	526 13th Ave.	Ben E. Lingenfelter
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DISTRIBUTORS

Arizona	Phoenix	Road Machinery Co.
California	Los Angeles	Crook Company
	Oakland	Spears-Wells Machinery Co.
Colorado	Denver	Ray Corson Machinery Co.
Idaho	Boise	Intermountain Equipment Co.
Montana	Helena	Steffeck Equipment Co.
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	R.L. Harrison Co.
Oregon	Portland	Cramer Machinery Co.
Utah	Salt Lake City	Atlas Equipment Co.
Washington	Seattle	Clyde Equipment Co.
	Spokane	Intermountain Equipment Co.
Wyoming	Cheyenne	Wortham Machinery Co.

THE BURCH CORPORATION

324 S. Thoman Street
Crestline, Ohio

PRODUCTS: Ice Control Units; Road Building and Maintenance Equipment; Snow Plows.

DISTRIBUTORS

Arizona	Phoenix	Neil B. McGinnis Equipment Co.
	"	O.S. Stapley Co.
California	Tucson	F. Ronstadt Hardware Co.
	Los Angeles	Harron-Rickard & McCone Co.
	San Diego	Southern Equipment & Supply Co.
	San Francisco	Coast Equipment Co.
Idaho	Boise	Starline Equipment Co.
Montana	Butte	Hall-Perry Machinery Co.
Oregon	Portland	Contractors Equipment Co.
Utah	Salt Lake City	Arnold Machinery Co.
Washington	Seattle	Sahlberg Equipment, Inc.
	Spokane	Western Tractor & Equipment Co.
Wyoming	Cheyenne	Kereml Tractor & Equipment Co.

W. J. BURKE & CO.

2690 Harrison Street
San Francisco 10, California

PRODUCTS: Form Clamps; Snap Ties; Form Sealers; Concrete Construction Specialties.

FACTORY BRANCH MANAGERS

California	Los Angeles	6235 E. Telegraph	John T. Atwater
	Sacramento	115 N St.	J. A. McLaughlin
	San Diego	3742 Midway Dr.	Wm. Pankow
New Mexico	Albuquerque	606 Louisiana Blvd.	Wm. High
Oregon	Portland	2344 21st Ave. NW	E. J. Cowling
Washington	Seattle	1101 Elliott Ave.	Verne Cooperrider

More of the West's State and County highway engineers read WC than any construction magazine in the Country!

L. BURMEISTER CO.
4535 W. Mitchell Street
Milwaukee 15, Wisconsin

PRODUCTS: Batchers; Bins; Conveyors (belt and screw); Elevators (bucket); Gates; Mixers (tilting, concrete); Mixing Plants; Scales (contractors'); Storage Bins; Weighing Batchers.

DISTRIBUTORS

California	Los Angeles	Garlinghouse, Fremont & Co.
	San Francisco	Coast Equipment Co.

BUTLER BIN CO.

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 Batchers; Cement Aerators; Bin Indicators; Portable Concrete Hoppers.

DISTRIBUTORS

Arizona	Flagstaff	State Tractor & Equipment Co.
	Phoenix	" " " " " "
	(Los Angeles)	Brown-Bevis Industrial Equipment Co.
California	Los Angeles	" " " " " "
	Oakland	The Brosse Co.
Colorado	Denver	Constructors Equipment Co., Inc.
Montana	Sidney	Tractor & Equipment Co.
Nevada	(Los Angeles)	Brown-Bevis Industrial Equipment Co.
New Mexico	Albuquerque	J.D. Coggins Co.
	(El Paso)	Contractors Equipment & Supply Co.
Oregon	Portland	Clyde Equipment Co.
Washington	Seattle	A.H. Cox & Co.
	Tacoma	" " " " " "
	Spokane	Construction Equipment Co.
Wyoming	Cheyenne	Wortham Machinery Co.

A. M. BYERS CO.
Pittsburgh 22
Pennsylvania

PRODUCTS: Wrought Iron Pipe, Plate and Steel Products.

DIVISION MANAGER

California	San Francisco	1256 Russ Bldg.	A.D. Sheere
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BYERS MANUFACTURING CO.

Sycamore and Spruce Streets
Ravenna, Ohio

PRODUCTS: Shovels; Cranes; Draglines and Trenches, crawler type and rubber mounted.

Distributed through the local THEW SHOVEL distributor

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

C & D DIVISION

Yuba Manufacturing Co.
701 East H Street
Benicia, California

PRODUCTS: Movable Rock Wagons, for use with all makes of rubber-tired tractors.

DISTRIBUTORS

Allis-Chalmers Manufacturing Co.
Caterpillar Tractor Co.
Euclid Division, General Motors Corp.
International Harvester Co.
LeTourneau-Westinghouse Co.
M-R-S Manufacturing Co.

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

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-Bevis Industrial Eqp't. Co.
	San Francisco	Contractors Machinery Co.
Colorado	Denver	Mine & Smelter Supply Co.
	Grand Junction	S & M Supply Co.
Idaho	Boise	Columbia Equipment Co.
New Mexico	Albuquerque	N.C. Ribble Co.
Oregon	Portland	Columbia Equipment Co.
Utah	Salt Lake City	Mine & Smelter Supply Co.
Washington	Seattle	Columbia Equipment Co.
Wyoming	Spokane	" " "
	Casper	Moss Equipment & Supply Co.

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.

DISTRIBUTORS

Arizona	Phoenix	Arizona Cedar Rapids Co.
California	Bakersfield	Kern County Equipment Co.
	Los Angeles	Gridley Equipment Co.
	Sacramento	Central Equipment Co.
Colorado	Denver	Johnson-Tudor Co.
Montana	Billings	Seitz Machinery Co., Inc.
New Mexico	Albuquerque	T-P Pump & Pipe Supply Co.
	"	N.C. Ribble Co.
Oregon	Portland	Mi-Van Company
Utah	Salt Lake City	H.H. Nielsen Co.
Washington	Seattle	Andrews Machinery of Wash., Inc.

CARVER PUMP CO.
1056 Hershey Avenue
Muscatine, Iowa

PRODUCTS: Pumps — Centrifugal, Irrigation, Industrial, Diaphragm.

DISTRIBUTORS

Arizona	Nogales	Occidental Electric Co.
	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
Colorado	Denver	Denver Air Machinery Co.
	Pueblo	Bernstein Brothers
Montana	Butte	O.B. Lund Co.
Oregon	Portland	Andrews & Andrews Equipment Co.
Washington	Seattle	Andrews Machinery of Washington
Wyoming	Casper	Emrick & Hill Engrg. & Eqp't. Co.

J. I. CASE CO.
700 State Street
Racine, Wisconsin

PRODUCTS: Wheel Tractors, gasoline and diesel; Highway Mowers; (sickle and rotary); Powerloaders; Gasoline and Diesel Engines.

FACTORY BRANCH MANAGERS

California	Oakland	1933 Peralta St.	W.F. Carey
Oregon	Portland	1709 SE 3rd Ave.	P.E. Wickwire

FACTORY REPRESENTATIVE

Oregon	Portland	333 SE 39th Ave.	R.E. Arnold
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DISTRIBUTORS

Arizona	Phoenix	Superior Equipment Co.
California	Anaheim	Orange County Tractor Co.
	Berkeley	West Coast Engine Equipment Co.
	Gardena	Latham Equipment Co.
	El Cajon	Deakins-Lane Diesel Co.
	N.Hollywood	Monarch Equipment Co.
	Los Angeles	Electric Tool & Supply Co., Inc.
	San Francisco	Contractors Machinery Co.
	Stockton	Equipment Sales & Service
Colorado	Denver	Liberty Truck & Parts Co.
Idaho	Twin Falls	Williams Tractor Co.
Montana	Billings	Montana Powder & Equipment Co.
	Helena	" " "
Oregon	Portland	Columbia Equipment Co.
Washington	Seattle	" " "
	Spokane	" " "
Utah	Salt Lake City	Rasmussen Equipment & Supply Co.
Wyoming	Casper	Wortham Machinery Co.
	Cheyenne	" " "
	Rock Springs	" " "
	Sheridan	" " "

CATAPHOTE CORPORATION
2505 Albion Street
Toledo, Ohio

PRODUCTS: Traffic and Street Name Signs, plain or reflectorized; Catalflex "202" Reflective Coating for signs; Cataline Reflective Pavement Marking; Glass Bead for reflectorizing pavement marking; Reflective Cur Marking Kits; Thermaline Hot-Applied Permanent Plastic Reflective Striping.

DISTRIBUTORS

Alaska	Anchorage	Craig Taylor Eqp't. & Supply Co.
Arizona	Phoenix	Equipment Sales Co.
	"	Safety Engineering & Supply Co.
	Tucson	Ronstadt Hardware Co.
California	Glendale	Edward M. Piro
	Oakland	George Avery
	San Francisco	Edward R. Bacon Co.
Colorado	Denver	Guy Hudson
Idaho	Boise	Johnson-Tudor Co.
	"	Engineering Sales Service, Inc.
	"	Intermountain Equipment Co.
Montana	Billings	Western Construction Equipment Co.
	Kalispell	Treasure State Equipment Co.
	Miles City	Tractor & Equipment Co.
New Mexico	Albuquerque	Contractors Eqp't. & Supply Co.
	"	Lively Equipment Co.
	"	C.E. Mitchum Co.
Oregon	Medford	Cal-Ore Machinery Co.
	Portland	Columbia Equipment Co.
Utah	Salt Lake City	Atlas Equipment Co.
	"	Foulger Equipment Co.
	"	Lund Machinery Co.
	"	Rental Equipment Co.
Washington	Seattle	Andrews Machinery of Wash., Inc.
	"	National Barricade Co.
Wyoming	Spokane	Modern Machinery Co., Inc.
	Cheyenne	Keremi Tractor & Equipment Co.
	"	Wortham Machinery Co.
	Rock Springs	" " "
	Sheridan	" " "

CATERPILLAR TRACTOR CO.
Peoria, Illinois
San Francisco, California
San Leandro, California

PRODUCTS: Diesel Track-Type and Industrial Wheel-Type Tractors; Diesel Engines; Diesel Marine Engines; Diesel Electric Sets; Motor Graders; Bulldozers; Rippers; Scrapers; Wagons; Cable Controls; Hydraulic Controls; Shovels; Pipe Layers.

NORTHWEST DIVISION SALES OFFICE

California	San Francisco	Sales Manager	J.A. Justeson
		Asst. Sales Mgr.	F. McNamara
		Sales Promotion	H.C. Fleming

SOUTHWEST DIVISION SALES OFFICE

California	San Francisco	Sales Manager	W.E. McCoy
		Asst. Sales Mgr.	R.E. Ehni
		Sales Promotion	T.W. Fahey

WESTERN PARTS DEPOTS

California	Los Angeles	Caterpillar Tractor Co.
Colorado	Denver	" " "
Washington	Spokane	" " "

DISTRIBUTORS

Arizona	Buckeye	Arizona Machinery Co.
	Casa Grande	" " "
	Coolidge	" " "
	Flagstaff	" " "
	Mesa	" " "
	Phoenix**	" " "
	Tucson	" " "
	Wellton	Braden Machinery Co.
	Yuma**	" " "
California	Bakersfield	Davies Machinery Co.
	Blythe**	Honnen Machinery Co.
	Brawley	Faure Tractor & Equipment Co.
	Brentwood	Peterson Tractor & Equipment Co.
	Chico**	Sierra Tractor & Equipment Co.
	Coachella	Johnson Tractor Co.
	Colusa**	I.G. Zumwalt Co.
	Corcoran	Davies Machinery Co.
	Crescent City	Brizard-Matthews Machinery Co.
	Delano	Treanor Equipment Co.
	Dixon	Weaver Tractor Co.
	El Centro**	Faure Tractor & Equipment Co.
	Escondido	San Diego Tractor & Equipment Co.
	Eureka**	Brizard-Matthews Machinery Co.
	Firebaugh	Budd & Quinn, Inc.
	Fresno**	" " "
	Goleta	Joseph G. Moore Co.
	Gridley	Sierra Tractor & Equipment Co.
	Hanford**	Davies Machinery Co.
	Hollister	Ditz Bros.
	King City	Pringle Tractor Co.
	Lancaster	Shepherd Machinery Co.
	Lodi	Holt Bros.
	Lompoc	Joseph G. Moore Co.
	Los Angeles**	Shepherd Machinery Co.

Continued on next page

CATERPILLAR TRACTOR CO. (Continued)

Los Banos	Valley Tractor Co.
Madera	Budd & Quinn, Inc.
Marysville**	Marysville Tractor & Equipment Co.
Merced	Valley Tractor Co.
Modesto**	Valley Tractor Co.
Napa**	Berglund Tractor & Equipment Co.
Ontario	Johnson Tractor Co.
Oxnard**	Wallace Machinery Co.
Paso Robles	Joseph G. Moore Co.
Porterville	Treanor Equipment Co.
Red Bluff	Sierra Tractor & Equipment Co.
Redding	" " " " "
Reedley	Budd & Quinn, Inc.
Riverside**	Johnson Tractor Co.
Robbins	Marysville Tractor & Equipment Co.
Roseville	" " " " "
Sacramento**	Weaver Tractor Co.
Salinas**	Pringle Tractor Co.
San Diego**	San Diego Tractor & Equipment Co.
San Diego	Shepherd Marine (Marine Engines)
San Francisco	Peterson Tractor & Equipment Co.
San Francisco**	Thos.A.Short Co. (Marine Engines)
San Jose**	Ditz Bros.
San Leandro**	Peterson Tractor & Equipment Co.
Santa Ana	Shepherd Machinery Co.
Santa Maria**	Joseph G. Moore Co.
Santa Rosa	Berglund Tractor & Equipment Co.
Stockton**	Holt Bros.
Tracy	" " " " "
Tulare	Treanor Equipment Co.
Tulelake	Crater Lake Machinery
Visalia**	Treanor Equipment Co.
Walnut Grove	Weaver Tractor Co.
Wasco	Davies Machinery Co.
Watsonville	Pringle Tractor Co.
Willits	Berglund Tractor & Equipment Co.
Willows	I.G.Zumwalt Co.
Woodland	Weaver Tractor Co.
Denver**	McCoy Company
Durango	" " " " "
Grand Junction	" " " " "
Pueblo	" " " " "
Sterling	" " " " "
American Falls	Western Equipment Co.
Boise	" " " " "
Idaho Falls	" " " " "
Lewiston**	Nez Perce Tractor & Equipment Co.
Twin Falls	Western Equipment Co.
Billings**	Nash-Davis Machinery Co.
Glasgow	Tractor & Equipment Co.
Great Falls**	Central Machinery Co.
Havre	" " " " "
Kalispell	Westmont Tractor Co.
Lewiston	Central Machinery Co.
Miles City	Tractor & Equipment Co.
Missoula**	Westmont Tractor Co.
Sidney**	Tractor & Equipment Co.
Elko	Sanford Tractor & Equipment Co.
Las Vegas	James Cashman Co.
Reno**	Sanford Tractor & Equipment Co.
Albuquerque	R.L.Harrison Co., Inc.
Arlington	Empire Machinery Co.
Astoria	Halton Tractor Co.
Athens	Empire Machinery Co.
Coquille	Pape Bros., Inc.
Enterprise	Inland Machinery Co.
Eugene	Interstate Tractor & Equipment Co.
"	Pape Bros., Inc.
Heppner	Empire Machinery Co.
John Day	Inland Machinery Co.
Klamath Falls**	Crater Lake Machinery Co.
LaGrande**	Inland Machinery Co.
Longview	Halton Tractor Co.
Medford	Crater Lake Machinery Co.
Ontario	Western Equipment Co.
Pendleton	Empire Machinery Co.
Portland**	Halton Tractor Co.
Redmond	Crater Lake Machinery Co.
Roseburg	Interstate Tractor & Equipment Co.
"	Pape Bros., Inc.
Salem	Halton Tractor Co.
The Dalles	Empire Machinery Co.
Salt Lake City**	Wheeler-Kershaw Co.
Connell	Webb Tractor & Equipment Co.
Dayton	Stone Machinery Co.
Ellensburg	Webb Tractor & Equipment Co.
Ephrata	Columbia Tractor Co.
Longview	Halton Tractor Co.
Mount Vernon	Collins Machinery Co.
Okanogan	Columbia Tractor Co.
Port Angeles	Collins Machinery Co.
Ritzville	Byrne Machinery Co.
Seattle**	Collins Machinery Co.
Spokane	Byrne Machinery Co.
Tacoma**	Murphy-Campbell Co.
Toppenish	Webb Tractor & Equipment Co.
Walla Walla	Stone Machinery Co.
Wenatchee**	Columbia Tractor Co.
Yakima**	Webb Tractor & Equipment Co.
Casper	Wortham Machinery Co.
Cheyenne**	" " " " "
Greybull	Nash-Davis Machinery Co.
Rock Springs	Wortham Machinery Co.
Sheridan	" " " " "

** Distributors' headquarters stores. All others are branch stores.

CHAIN BELT CO.
4701 W.Greenfield Avenue
Milwaukee 1, Wisconsin

PRODUCTS: "Pex" Dewatering Pumps; Building Mixers; Pavers; Pumpcrete (concrete placed by pipeline); Moto-Mixers; Railporter (single-rail transportation of materials).

FACTORY BRANCH MANAGER

California Los Angeles 7601 Telegraph Rd. S.Y.Warner

REGIONAL MANAGER

California Berkeley 2940 Seventh St. C.R.Angell

DISTRIBUTORS

Arizona	Phoenix	State Tractor & Equipment Co.
California	Los Angeles	Cal-Rex Machinery Sales
	San Francisco	Coast Equipment Co.
Colorado	Denver	Ray Corson Co.
Idaho	Boise	Intermountain Equipment Co.
	Pocatello	" " " " "
Montana	Billings	Hall-Perry Machinery Co.
	Butte	" " " " "
	Great Falls	" " " " "
Nevada	Reno	Pioneer Equipment Co.
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Oregon	Eugene	Loggers & Contractors Mch. Co.
	Portland	" " " " "
Utah	Salt Lake City	Arnold Machinery Co.
Washington	Seattle	Conrad Creim Co.
	Spokane	Construction Equipment Co.
Wyoming	Casper	Keremi Tractor & Equipment Co.
	Cheyenne	" " " " "

CHAR-LYNN CO.
2843 26th Avenue South
Minneapolis 6, Minnesota

PRODUCTS: Hydraulic Power Packs; Hydraulic Pumps; Hydraulic Supply Tanks; Hydraulic Valves and Controls; Hydraulic and Pneumatic Hose Couplers; Oil Filters; Hydraulic Cylinders; Hydraulic Motors; Power Steering Units.

FACTORY BRANCH MANAGERS

California	Oakland	2003 E.14th St.	Geo.A.Kushman
Colorado	Denver	695 S.Garfield	Edward C.Wild
Oregon	Portland	1901 NW 26th Ave.	Harlan C.McKay

DISTRIBUTORS

Alaska	(Portland)	Cascade Supply Co.
	"	Russ Chamberlin Co.
	"	Mitchell, Lewis & Staver
	(Seattle)	Polson Implement Co.
	"	Spencer Aircraft Industries
Arizona	Phoenix	Air-Draulics Co.
California	Bakersfield	Bakersfield Hydraulic Jack Co.
	Fresno	Central Supply Co.
	Los Angeles	Forniciari Company
	Sacramento	L & G Specialties
	San Jose	Power Transmission Engrg. Co.
	South Gate	Hydraulic Tool & Equipment Co.
Colorado	Denver	George Brothers
Idaho	Boise	General Implement Distributors
	Idaho Falls	Morgan's
	Twin Falls	McVey's, Inc.
Montana	Billings	Midland Implement Co.
New Mexico	Clovis	Dorris Distributing Co.
Oregon	Portland	Cascade Supply Co.
	"	Russ Chamberlin Co.
	"	Mitchell, Lewis & Staver
Utah	Ogden	Mountain States Implement Co.
	Salt Lake City	General Implement Distributors
Washington	Seattle	Polson Implement Co.
	"	Spencer Aircraft Industries
	Spokane	Calkins Manufacturing Co.
	Walla Walla	Morison Supply Co.
	Yakima	Central Chain & Transmission Co.

CHESTER PRODUCTS CO.
Division of Ransohoff, Inc.
N. 5th Street & Ford Blvd.
Hamilton, Ohio

PRODUCTS: Tamping Rollers - Model 1760 (Special), Model 4840 "NINE TON", Model 6060 "BIG SIXTY"; Pneumatic Compactors - Model 50T4 "FIFTY TON", Model 9W40 "9 WHEELS", Model 13W80 "13 WHEELS".

WESTERN FIELD REPRESENTATIVE

California Sherman Oaks P.O.Box 796 Joseph M.Shelt

More of the West's County equipment superintendents read WESTERN CONSTRUCTION than any other construction magazine.

CHICAGO BRIDGE & IRON CO.
 332 South Michigan Avenue
 Chicago 4, Illinois

PRODUCTS: Digesters, Pulp; Holders, Gas; Penstocks; Refinery Towers, Oil; Saeval, Marx; Smokestacks; Standpipes; Steel Forms; Steel Plate Work; Tanks, Acid; Tanks, Aluminum; Tanks, Elevated; Tanks, Flat Bottoms; Tanks, Hemispherical; Tanks, Spherical; Tanks, Spheroidal; Pressure Vessels.

WESTERN PLANT MANAGER

Utah Salt Lake City 555 W.17th St. E.S.Fraser

WESTERN SALES MANAGERS

California S.Pasadena 712 Fair Oaks Ave. Dean E.Stephan
 Utah San Francisco 200 Bush Street L.A.Elsener
 Washington Seattle 1355 Henry Bldg. R.A.Jackson

CHICAGO PNEUMATIC TOOL CO.
 6 East 44th Street
 New York 17, New York

PRODUCTS: Pneumatic and Electric Tools; Compressors; Rock Drills; Diesel Engines.

WESTERN FACTORY BRANCHES

California Los Angeles Manager H.P.Hansen
 " San Francisco " H.P.Hansen
 " " Special Repr. C.W.Scott
 Colorado Denver Manager E.R.Goss
 Utah Salt Lake City Asst. Manager O.L.Briggs
 Washington Seattle Manager R.S.McBeth

DISTRIBUTORS

Alaska Anchorage Western Tractor & Equipment Co.
 Fairbanks " " " "
 Arizona Phoenix Western Machinery Co.
 California Eureka E.W.Pierce Co.
 Fresno Contractors Equipment & Supply Co.
 Los Angeles Essick Machinery Co.
 Redding Paul Droscher Sales
 San Diego Shaw Sales & Service Co.
 San Francisco Western Traction Co.
 Colorado Denver Stearns Roger Manufacturing Co.
 " " Gunderson-Taylor Machinery Co.
 Grand Junction United Equipment Co.
 Idaho Falls Arnold Machinery Co.
 Montana Billings Industrial Equipment Co.
 Butte Pioneer Equipment & Supply Co.
 Great Falls Normont Equipment Co.
 Kalispell Treasure State Equipment Co.
 Missoula " " " "
 Nevada Las Vegas Inland Service & Supply Co.
 Reno Pioneer Egmt. Co. of Nevada, Inc.
 New Mexico Albuquerque N.C.Ribble Co.
 Oregon Eugene P.L.Crooks & Co., Inc.
 Medford Cal-Ore Machinery Co., Inc.
 Portland Interstate Tractor & Equipment Co.
 Utah Salt Lake City Arnold Machinery Co.
 Washington Bellingham Industrial Supply Co.
 Chehalis Western Tractor & Equipment Co.
 Seattle Washington Machinery Co.
 " Western Tractor & Equipment Co.
 Spokane Andrews Egmt. Service of Wash.
 Tacoma Western Tractor & Equipment Co.
 Wyoming Casper Studer Tractor & Equipment Co.

CHIKSAN COMPANY
 330 N.Pomona Avenue
 Brea, California

PRODUCTS: Joints; Swivel Couplings; Hydraulic Water Monitors.

FACTORY BRANCHES

California Brea Western Reg.Sales Mgr. Robert T.Jones
 Oakland District Manager H.Stock

DISTRIBUTORS

Arizona Phoenix Cone & Wallace Co.
 California Oakland Chiksan Company
 Colorado Denver Well Equipment Mfg. Corp.
 Montana Billings " " " "
 New Mexico Hobbs " " " "
 Oregon Portland Henry Kalz
 Utah Salt Lake City The Lang Company
 Washington Seattle E.C.Griffin Co.

There are two natural regions in the national construction market—the West—the East. WESTERN CONSTRUCTION is first choice in the Western half!

CHILDERS MANUFACTURING CO., INC.
 2000 Sixth St., N.W., P.O.Box 6185
 Albuquerque, New Mexico

PRODUCTS: Circulating Hot Oil Heaters and Associated Equipment.

DISTRIBUTORS

Arizona (Los Angeles) Standard Steel Corp.
 California Los Angeles " " "
 Colorado Denver Ray Corson Machinery Co.
 Montana Helena Montana Powder & Equipment Co.
 New Mexico Albuquerque Lively Equipment Co.
 Nevada Los Angeles Standard Steel Corp.
 Oregon Portland Contractors Equipment Co.
 Washington Seattle Washington Machinery Co.
 Wyoming Casper Kereml Tractor & Equipment Co.
 Cheyenne " " " "

CHRYSLER MARINE & INDUSTRIAL ENGINE DIV.
 2000 Van Horn Road
 Trenton, Michigan

PRODUCTS: Industrial Engines.

REGIONAL MANAGER

California Los Angeles 5800 S.Eastern Ave. M.J.Yost

DISTRIBUTORS

Alaska Juneau Northern Commercial Co.
 Ketchikan " " "
 California Bakersfield S.A.Camp Motor Co.
 " " Wilson Engine & Equipment Co.
 Berkeley West Coast Motors
 Huntington Park Angelus Engine Sales
 Marysville Williams Motors
 Sacramento Dalton Motors, Inc.
 San Diego Kenton Equipment Co.
 Stockton Equipment Sales & Service
 Woodland William R.Cato
 Colorado Burlington Consolidated Gas & Egmt. Co.
 Denver MacDonal Equipment Co.
 Monte Vista Lockwood Graders of Colorado, Inc.
 Nevada Reno Sierra Machinery Co.
 New Mexico Albuquerque Lively Equipment Co.
 Clovis Ingram Bros. Pump Co.
 Deming Deming Brake & Tractor Service
 Las Cruces Butte Pump & Machinery Co.
 Lovington Smith Machinery Co.
 Roswell " " "
 Oregon Portland White Motor Co.(Diesel Eng.Div.)
 Utah Salt Lake City Hafer's, Inc.
 Washington Seattle Northern Commercial Co.

CIRCLE WIRE & CABLE CORP.
 5500 Maspeth Avenue
 Maspeth 78, New York

PRODUCTS: Hot Rolled Copper Rods; Armored Cable; Armored Cable, Lead; Non-Metallic Sheathed Cable; Flexible Steel Conduit; Rubber Covered Wire; Rubber and Lead Cables; Flexible Cords, all types UF Wire; Bare Cable; Galvanized Steel Strip; Bare Copper Wires; Bell Wire - Office Wire; Thermostat Wires and Cables; Parkway Cables; Varnished Cambric Cables; Power Cables; Service Entrance Cables; Weatherproof Wire; Plastic Insulated Wire.

DISTRIBUTORS

California Los Angeles Agencies Company
 San Francisco Brill Electric Sales
 Oregon Portland Electric Agencies
 Washington Seattle " " "

CLARK EQUIPMENT CO.
 Construction Machinery Division
 P.O.Box 599
 Benton Harbor, Michigan

PRODUCTS: Back Hoes; Cranes; Draglines; Excavator-Cranes; Front End Loaders; Loaders; Pull Shovels; Power Shovels; Tractor Shovels; Truck Cranes; Truck Shovels; Tractor-Dozers; Tractor-Loggers; Wagon Cranes.

WESTERN DISTRICT MANAGER

California Menlo Park 210 Golden Oak Dr. M.O.Nystrom

DISTRICT REPRESENTATIVES

California Manhattan Beach 645 17th St. D.W.Pedley
 Washington Seattle 500 Wall St. R.W.Lewis

Continued on next page

C. I. T. CORPORATION

120 Montgomery Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

CLARK EQUIPMENT CO. (CONTINUED)

DISTRIBUTORS

Alaska	Anchorage	Evans Engine & Eqpt. Co., Inc.
Arizona	Phoenix	Western Machinery Co.
California	Los Angeles	Smith-Booth-Usher Co.
	Oakland	Buran Equipment Co.
	"	Spears-Wellis Machinery Co., Inc.
	"	Buran Equipment Co.
Colorado	Santa Clara	Western Machinery Co.
	Denver	"
	Grand Junction	"
Idaho	Boise	Sawtooth Co.
	"	"
Montana	Billings	Western Construction Co.
	Missoula	Miller Machinery Co.
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Oregon	Portland	Columbia Equipment Co.
	"	Western Equipment Co.
Utah	Salt Lake City	Foulger Equipment Co.
Washington	Seattle	Totem Equipment Co.
	Spokane	"
Wyoming	Casper	Moss Equipment & Supply Co.

CLARK EQUIPMENT CO.
Automotive Division
Buchanan, Michigan
Jackson, Michigan

PRODUCTS: Axle Housings; Driving, Steering, Trailer and Tandem Axles; Transmissions; Torque Converters; Final Drive Assemblies.

DISTRIBUTORS

California	Los Angeles	N.A.D'Arcy Co. (Arizona, California, Nevada)
	Oakland	Walter L. Shirey Co. (Arizona, California, Nevada)
Colorado	Denver	F.C. Waly
Oregon	Portland	H.C. McKay Co. (Alaska, Oregon, Utah, Washington, Wyoming)

CLARY MANUFACTURING CO.
421 South Date Avenue
Alhambra, California

PRODUCTS: Clary Power Screed; Clary Power Screed Conveyors.

DISTRIBUTORS

California	San Francisco	Edward R. Bacon Co.
Colorado	Denver	Rocky Mtn. Equipment Supply Co.
Idaho	Idaho Falls	Arnold Machinery Co., Inc.
Montana	Great Falls	Western Construction Equipment Co.
Oregon	Portland	Loggers & Contractors Mch. Co.
Utah	Salt Lake City	Arnold Machinery Co.
Washington	Seattle	Conrad Creim Co.

CLAYTON MANUFACTURING CO.
401 N. Temple City Boulevard
El Monte, California

PRODUCTS: Steam Cleaning Machines; Steam Cleaners; Steam Cleaning Compounds; Steam Generators; Portable Space Heaters; Engine & Chassis Dynamometers.

REGIONAL MANAGER

California	San Gabriel	1301 Abbott Ave.	John J. Billman
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DISTRICT MANAGERS

California	Alhambra	1033 S. Valencia St.	R.C. Welch
	Larkspur	8 Diane Lane	F.E. Hissem
	San Francisco	3350 Divisadero	R.L. Read
	Walnut Creek	10 Ravenwood Dr.	Geo. J. Edwards
Colorado	Denver	2231 Newport	G.W. Turman
Oregon	Oswego	3250 SW Upper Dr.	Jack B. Burdick
	Portland	9645 SW Vista Pl.	Roy V. Cosner
Washington	Seattle	407 N. 122nd St.	Wyley P. Hunt

REPRESENTATIVES

Arizona	Phoenix	1636 N. 26th Pl.	Hugh M. Craig
Montana	Lakeside	P.O. Box 91	M.H. Miller
Utah	Salt Lake City	2002 Douglas St.	W.R. Johnson

There are eleven natural marketing areas in the West — Get good distributors in all eleven areas, work with them—then make the distributor's selling job easier, more productive, with advertising in WC!

CLEAVER-BROOKS CO.
326 E. Keefe Avenue
Milwaukee 12, Wisconsin

PRODUCTS: Tank Car Heaters; Bituminous Booster, Deuce-Combination Unit; Portable Steamers; Stationary Boilers.

DISTRIBUTORS

Alaska	Fairbanks	The Carrington Co.
Arizona	Phoenix	Arizona Cedar Rapids Co.
California	San Francisco	C.H. Grant Co.
	"	Sierra Machinery Co.
Colorado	Denver	H.W. Moore Equipment Co.
Idaho	Boise	Intermountain Equipment Co.
	"	"
Montana	Pocatello	Hall-Perry Machinery Co.
	Butte	"
	Great Falls	"
	Missoula	"
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	R.L. Harrison Co., Inc.
Oregon	Albany	Howard-Cooper Corp.
	Central Point	"
	Coquille	"
	Eugene	"
	Newport	"
	Portland	"
	Roseburg	"
Utah	Salt Lake City	Kimball Equipment Co.
Washington	Pasco	Intermountain Equipment Co.
	Seattle	Howard-Cooper Corp.
	Spokane	Intermountain Equipment Co.
Wyoming	Casper	Studer Tractor & Equipment Co.

CLEVELAND FORMGRADER CO.
Mills Road
Avon, Ohio

PRODUCTS: Formgraders; Form Tampers; Scratch Templates; Trailgraders; Strike-Offs; Sub-grade Scrapers; Steel and Aluminum Straight Edges; Finishing Bridges; Floats.

DISTRIBUTORS

California	Oakland	C.H. Grant Co.
	San Francisco	Coast Equipment Co.
Colorado	Denver	Constructors Equipment Co.
	"	Ray Corson Machinery Co., Inc.
	"	Rocky Mountain Equipment Co.
	"	Union Hardware & Tool Co.
Montana	Billings	Western Construction Equipment Co.
	Butte	Hall-Perry Machinery Co.
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Utah	Salt Lake City	Arnold Machinery Co.
	"	Foulger Equipment Co.
	"	The Lang Co., Inc.
	"	Rocky Mountain Machinery Co.
Washington	Seattle	Washington Machinery Co.
	Spokane	Star Machinery Co.

THE CLEVELAND TRENCH CO.
20100 St. Clair Avenue
Cleveland 17, Ohio

PRODUCTS: Backfillers; Backfill Tampers and Side Cranes; Ditchers; Tampers; Trailers; Trenchers.

DISTRIBUTORS

Arizona	Phoenix	Shriver Machinery Co.
California	Los Angeles	Smith-Booth-Usher Co.
	San Francisco	Edward R. Bacon Co.
Colorado	Denver	H.W. Moore Equipment Co.
	Grand Junction	"
Montana	Billings	Industrial Equipment Co.
	Great Falls	Normont Equipment Co.
	Kalispell	Treasure State Equipment Co.
	Missoula	"
New Mexico	Albuquerque	J.D. Coggins Company
	Farmington	"
Oregon	Eugene	Loggers & Contractors Mch. Co.
	Portland	"
Utah	Salt Lake City	Atlas Equipment Co. Div., —
	"	Wheeler-Kershaw Co.
Washington	Seattle	Totem Equipment Co.
	Spokane	Western Machinery Co.
Wyoming	Casper	Kerem Tractor & Equipment Co.
	Cheyenne	"

THE CLEVELAND VIBRATOR CO.
2828 Clinton Avenue, West
Cleveland 13, Ohio

PRODUCTS: Pneumatic and Electric Vibrators for use on hoppers, bins, chutes, screeds, screens and forms.

FACTORY REPRESENTATIVE

California	San Francisco	7 Front St.	L.P. Metesser
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**C. I. T. finances installment sales
of equipment for many Distributors**

CLIPPER MANUFACTURING CO.
 2800 Warwick Street
 Kansas City 8, Missouri

PRODUCTS: Masonry Saws; Concrete Saws; Diamond, Abrasive and Break-Resistant Abrasive Blades for Masonry and Concrete Cutting; Hot Pour Joint Sealers; Cold-Applied Joint Sealers for highway and airfield construction.

FACTORY BRANCH MANAGERS

California	Los Angeles	440 Seaton St.	Bob Stubbs
	San Francisco	885 Bryant St.	" "
Colorado	Denver	4303 Brighton	Randy Hahn

FIELD REPRESENTATIVES

California	Los Angeles	440 Seaton St.	Colin Campbell
	" "	" "	John Goss
	San Francisco	885 Bryant St.	Bill Price
Colorado	Denver	4303 Brighton	Sam Ashwood

DISTRIBUTORS

New Mexico	Albuquerque	W.J.Burke & Company
Oregon	Portland	" " " " "
Utah	Salt Lake City	Interstate Brick Co.
Washington	Seattle	W.J.Burke & Company
Wyoming	Cheyenne	Powers Builders Supply

CLYDE IRON WORKS, INC.
 Duluth 1
 Minnesota

PRODUCTS: Cranes; Pile Hammers; Winches; Derricks; Tandem Rollers; Hoists; Whirlleys; Car Pullers; Builders Towers; Unloaders.

DISTRIBUTORS

Alaska	Anchorage	Bashaw Equipment Co.
Arizona	Phoenix	State Tractor & Equipment Co.
California	Los Angeles	Harron, Rickard & McCone Co.
	San Francisco	Coast Equipment Co.
Colorado	Denver	Mine & Smelter Supply Co.
Idaho	Boise	Intermountain Equipment Co.
Montana	Billings	Western Construction Equipment Co.
	Great Falls	" " " " "
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	Clyde Equipment Co.
Utah	Salt Lake City	Mine & Smelter Supply Co.
Washington	Seattle	Clyde Equipment Co.
	Spokane	Intermountain Equipment Co.

COFFING HOIST DIVISION
 Duff-Norton Company
 800 Walter Street
 Danville, Illinois

PRODUCTS: Electric Hoists; Ratchet Lever Hoists; Spur Gear Hoists; Differential Hoists; Low Head Room Hoists; Army Type Extended Hand Wheel and Clevis Connected Spur Gear Hoists; "Hoist-Alls"; "Mighty Midget Pullers"; Utility Maintenance Tools; Load Binders.

DISTRICT SALES MANAGERS

California	Belmont	1300 Sunnyslope Ave.	R.A.Ratcliff
Colorado	Denver	842 S.York St.	F.R.Elsner

Distributors in all major cities

COLBY STEEL & MANUFACTURING, INC.
 65 Horton Street
 Seattle 4, Washington

PRODUCTS: Custom Engineered Bridge, Gantry, Hammerhead, Luffing Boom, and Double Cantilever Cranes; Hydraulic and Electric Level-Luffing Shipboard Type Cargo Handling Cranes; Grab Bucket Unloaders; Marine Elevators; Automobile and Passenger Ramps.

Western construction men value the WC Equipment Directory in making emergency contacts with equipment manufacturers and distributors!

The WC Equipment Directory tells who manufactures equipment you might know only by its trade mark name. Trade names are listed in blue section.

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.

WICKWIRE ROPE DISTRIBUTORS

Alaska	Anchorage	Northern Supply Co.
	Ketchikan	Alaska Cummins Diesel, Inc.
Arizona	Douglas	Phelps-Dodge Mercantile Co.
	Phoenix	Arizona Hardware Co.
	" "	Bill Johnson Supply Co.
	" "	Lee Redman Equipment Co.
	" "	Western Machinery Co.
California	Tucson	Tucson Pipe & Supply Co.
	Arcata	Reliable Hardware Co.
	Bakersfield	Davies Machinery Co.
	Boonville	John Rossi & Son Co.
	Downey	Cutting Edge Supply Co.
	Fresno	Pittsburgh Des Moines Steel Co.
	Glendale	Air Associates, Inc.
	Hayward	Hill Supply Co.
	Jackson	Spinetti Brothers
	Long Beach	Bagby's Wire Rope & Spooling Serv.
	" "	Cordage Supply Co.
	Los Angeles	A.M.Castle Co.
	" "	Harper & Reynolds Corp.
	" "	The Howard Supply Co.
	" "	International Wire & Cable Corp.
	Oakland	Rutherford & Skoubye Steel Co.
	Redding	Cascade Industrial Supply Co.
	Sacramento	Capitol Machine & Welding Wks., Inc.
	" "	Pittsburgh Des Moines Steel Co.
	San Francisco	Bell Rigging Supply
	" "	A.M.Castle & Co.
	" "	A.J.Glesener Co.
	San Jose	Pacific Hardware & Steel Co.
	San Leandro	Peterson Tractor & Equipment Co.
	San Pedro	Seaside Supply Stores
	Santa Rosa	Reliable Hardware & Steel Co.
	Sonoma	Tuolumne Foundry & Machine Co.
	Stockton	Pittsburgh Des Moines Steel Co.
	Ukiah	Reliable Mill Supply Co.
Colorado	Cripple Creek	Colorado Trading & Transfer Co.
	Denver	M.J.Cross Manufacturing Co.
	" "	Franklin Supply Co.
	" "	Houston Oil Field Material Co.
	" "	Iverson Supply Co.
	" "	T.C.Koogle & Son
	" "	McDonald Equipment Co.
	" "	Mountain Iron & Supply Co.
	" "	Southwest Supply Co.
	" "	Union Supply Co.
	Durango	Jackson Hardware, Inc.
	" "	Telluride Iron Works
	Fort Morgan	Allison Meller Supply Co.
	" "	Franklin Supply Co.
	Grand Junction	McDonald Equipment Co.
	" "	Mayhew Machine & Supply Co.
	" "	Salt Lake Hardware Co.
	Loveland	Western States Supply Co.
	Pueblo	S.W.Pressey & Son
	" "	Mutual Machinery Co.
	Rangely	Sargent Engineering Corp.
Idaho	Boise	Engineering Sales & Service
	" "	Salt Lake Hardware Co.
Montana	Billings	Houston Oil Field Material Co.
	" "	Power Transmission Equipment Co.
	Butte	Pioneer Equipment Co.
	Cut Bank	Pioneer Distributors
	" "	Sherman Moorehead Co.
	Great Falls	Central Machinery Co.
	" "	Northwest Steel, Inc.
	Havre	Central Machinery Co.
	Kalispell	Treasure State Equipment Co.
	Lewiston	Central Machinery Co.
	Missoula	Treasure State Equipment Co.
	Sidney	Mayhew Machine & Supply
Nevada	Elko	A-D Machinery Co.
	" "	" "
	Las Vegas	James Cashman Co.
	" "	Las Vegas Building Materials
	" "	Lincoln Welding Works
	" "	Pioneer Equipment Co.
New Mexico	Reno	Harry Cornelius Co.
	Albuquerque	Turner Drillers Supply
	Artesia	Allied Supply Co.
	" "	Iverson Supply Co.
	Farmington	Beacon Supply Co.
	" "	Houston Oil Field Material Co.
	" "	Iverson Supply Co.
	Las Cruces	Meyers Company
	Santa Fe	Santa Fe Builders Supply Co.
	Silver City	E.Cosgrove, Inc.

Continued on next page

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
 Equitable Building, Portland

416 West 8th Street, Los Angeles

COLORADO FUEL & IRON CORP. (CONTINUED)

Oregon	Eugene	Pine-Fir Logging Supply
	Grants Pass	Cascade Industrial Supply Co.
	Klamath Falls	" " " "
	Portland	A.W.Davis Supply Co.
	"	Feenaughty Machinery Co.
	"	Gilmore Steel & Supply Co.
Texas	Reedsport	Reedsport Logging & Supply Co.
	El Paso	Ponsford Equipment Co.
	"	Tri-State Equipment Co.
	"	Zork Hardware Co.
Utah	Moab	Plateau Hardware Co.
	Salt Lake City	Salt Lake Hardware Co.
	"	Zion's Cooperative Mercantile Inst.
Washington	Springville	Utah Service, Inc.
	Chehalis	W.J.Graham Implement Co.
	Colville	Cole Equipment Co.
	Everett	Wold Hardware Co.
	Forks	Ulin Maintenance & Supply Co.
	Olympia	Olympia Supply Co.
	Port Angeles	Ulin Maintenance & Supply Co.
	Seattle	A.M.Castle & Co.
	"	Marine & Industrial Supply Co.
	"	Schwabacher Hardware Co.
	"	Seaboard Supply Co.
	"	Seattle Marine & Fishing Supply Co.
	Sequim	Sequim Lumber & Supply Co.
	Spokane	Broadway Splicing Shop
	"	Modern Machinery Co.
Wyoming	Tacoma	Paramount Supply Co.
	Casper	Franklin Supply Co.
	"	Houston Oil Field Material Co.
	"	Mayhew Machine & Supply
	"	Wyoming Hardware Co.
	"	Western Oil Tool & Supply Co.
	Worland	" " " "
	"	Worland Machine Co.

COLUMBIA-GENEVA STEEL DIVISION (CONTINUED)

	Taft	Oil Well Supply Co.
	Ventura	" " " "
Idaho	Boise	Idaho Hardware & Plumbing Co.
	"	Olson Manufacturing Co.
	"	Southern Idaho Equipment Co.
	Idaho Falls	" " " "
	Lewiston	Erb Hardware Co.
	Pocatello	Paul Roberts
	Twin Falls	Southern Idaho Equipment Co.
Nevada	Las Vegas	Las Vegas Machine & Engineering Co.
	Reno	J.R.Bradley Co.
Oregon	Albany	Howard-Cooper Corp.
	Astoria	Fisher Bros. Co.
	Central Point	Interstate Tractor & Equipment Co.
	Coos Bay	Howard-Cooper Corp.
	Coquille	A.B.Daly & Co.
	Eugene	Howard-Cooper Corp.
	"	American Steel & Supply Co.
	"	Howard-Cooper Corp.
	Grants Pass	Interstate Tractor & Equipment Co.
	Klamath Falls	Redwoods Supply Co.
	McMinnville	Fred E.Barnett Co.
	Philomath	Interstate Tractor & Equipment Co.
	Portland	Lacey Supply Co.
	"	American Steel Warehouse Co.
	"	Fred E.Barnett Co.
	"	Contractors Equipment Co.
	"	J.E.Haseltine & Co.
	"	Howard-Cooper Corp.
	"	Interstate Tractor & Equipment Co.
	"	Lowery Bros. Splicing Service
	"	Star Drilling Machine Co.
	"	Woodbury Co.
	Prineville	Prineville Machine & Supply Co.
	Roseburg	Douglas Supply Co.
	"	Howard-Cooper Corp.
	"	Interstate Tractor & Equipment Co.
	Salem	" " " "
	"	Salem Steel & Supply Co.
	The Dalles	Interstate Tractor & Equipment Co.
Utah	Helper	Carbon Transfer & Supply Co.
	Hurricane	Scholzen Products Co.
	Salt Lake City	The Salt Lake Hardware Co.
Washington	Bellingham	Morse Hardware Co.
	Chehalis	F.G.Foster Co.
	Everett	Agnew Hardware Co.
	Hoquiam	F.G.Foster Co.
	Long View	Interstate Tractor & Equipment Co.
	Raymond	F.G.Foster Co.
	Seattle	The Carrington Co.
	"	Fisheries Supply Co.
	"	J.E.Haseltine & Co.
	"	Lines, Inc.
	"	Chas.H.Rasmussen & Co.
	"	Joseph T.Ryerson & Son
	Spokane	Marshall-Wells Co.
	Tacoma	Joseph T.Ryerson & Son
	Yakima	Hunt & Mottet Co.
	"	Yakima Hardware Co.

COLUMBIA-GENEVA STEEL DIVISION
UNITED STATES STEEL CORP.20 Montgomery Street
San Francisco 6, CaliforniaPRODUCTS: Steel and Steel Products; Tiger Brand Wire Rope;
Aerial Tramways, Cableways and Light Suspension
Bridges.

DISTRICT OFFICES

California	Los Angeles	District V.P.	F.S.Howard
	San Francisco	"	R.H.Maddan
Colorado	Denver	Manager-Sales	R.T.Mitchell
Oregon	Portland	"	E.M.Foudray
Utah	Salt Lake City	District V.P.	M.B.Harrison
Washington	Seattle	"	M.H.Freedman

DISTRIBUTORS

Arizona	Douglas	Phelps-Dodge Mercantile Co.
	Flagstaff	Babbitt Brothers Trading Co.
	Phoenix	Arizona Hardware Co.
	"	Equipment Sales Co.
	"	Albert Steinfeld & Co.
California	Tucson	Oil Well Supply Co.
	Avenal	"
	Bakersfield	Tay-Holbrook, Inc.
	"	"
	Berkeley	Imperial Hardware Co.
	Brawley	"
	Calexico	"
	El Centro	"
	Eureka	Fred E.Barnett Co.
	"	Tay-Holbrook, Inc.
	Fresno	"
	Indio	Imperial Hardware Co.
	Long Beach	Oil Well Supply Co.
	Los Angeles	Brown-Bevis Industrial Eqpt. Co.
	"	B & T Industrial Supply Co.
	"	Drilling & Mining Equipment Co.
	"	Harper & Reynolds Corp.
	"	Hickey Pipe & Supply Co.
	"	Oil Well Supply Co.
	"	R.J.M. Company
	"	Triangle Steel & Supply Co.
	"	Union Hardware & Metal Co.
N.Sacramento	Fred E.Barnett Co.	
Oakland	Tay-Holbrook, Inc.	
Redding	Gerlinger Steel & Supply Co.	
Reno	Tay-Holbrook, Inc.	
Sacramento	"	
Salinas	The Thompson-Diggs Co.	
San Carlos	Tay-Holbrook, Inc.	
San Diego	"	
San Francisco	C.J.Hendry Co.	
"	Fred E.Barnett, Inc.	
"	C.J.Hendry Co.	
"	Honolulu Iron Works Co.	
"	Tay-Holbrook, Inc.	
San Jose	"	
San Pedro	C.J.Hendry Co.	
Santa Rosa	Tay-Holbrook Co.	
Stockton	Austin Brothers	
"	Tay-Holbrook, Inc.	

Continued in next column

THE COMMERCIAL SHEARING & STAMPING CO.
Box 239
Youngstown 1, OhioPRODUCTS: Tunnel Lining Products; Oil Hydraulic Controls;
Heavy Steel Stampings and Forgings.

WESTERN PLANT

Utah Salt Lake City P.O.Box 2036 R.M.O'Neil

CONCRETE SAWING

CONCRETE SAWING EQUIPMENT, INC.
331 N.Santa Anita
Arcadia, CaliforniaPRODUCTS: Concut Concrete Sawing Machines, manual and
self-propelled, single and multi-bladed; Precision
Bump Cutters for planing concrete and asphalt
surfaces.

SALES REPRESENTATIVES

Arizona	Tucson	5794 Eastland Ave. Chuck Cribbs
California	Monrovia	248 E.Lime Ave. Russ Barrows
	Sacramento	1115 N St. Dave Loudon

DISTRIBUTORS

California	Los Angeles	W.J.Burke Co.
	Sacramento	" " " "
	San Francisco	" " " "
	Albuquerque	" " " "
New Mexico	Portland	Cramer Machinery Co.
Oregon	Salt Lake City	Western Machinery Co.
Utah	"	"

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

THE CONCRETE SURFACING MACHINERY CO.
 4665 Spring Grove Avenue
 Cincinnati 32, Ohio

PRODUCTS: "Berg" Concrete Surfacers; Hiway Surfacers.

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	Los Angeles	Garlinghouse-Fremont & Co.
	"	M.N. Thackaberry
	San Francisco	Edward R. Bacon Co.
Colorado	Denver	Coast Equipment Co.
	"	Ray Corson Machinery Co.
Idaho	Boise	Hendrie & Bolthoff Co.
Montana	Butte	Intermountain Equipment Co.
New Mexico	Albuquerque	Hall-Perry Machinery Co.
	"	Contractors Equipment & Supply Co.
	"	N.C. Ribble Co.
Oregon	Portland	Clyde Equipment Co.
Utah	Salt Lake City	C.H. Jones Equipment Co.
	"	National Equipment Co.
Washington	Seattle	Andrews Mch. of Washington, Inc.
	"	Clyde Equipment Co.
	Spokane	Construction Equipment Co.

CONCRETE TRANSPORT MIXER CO.
 4985 Fyler Avenue
 St. Louis 9, Missouri

PRODUCTS: Truck Mixers; Miscellaneous Construction Machinery.

DISTRIBUTOR

Jost Concrete Products in Arizona, Colorado, New Mexico, Utah

CONSOLIDATED MACHINERY & SUPPLY CO., LTD.
 2033 Santa Fe Avenue
 Los Angeles 21, California

PRODUCTS: Comet Radial Power Saws; Davis & Wells Metal and Woodworking Machinery; Comasco Gas Powered Contractors' Saws; Comet Adjustable Cut-off Stop Gauges; Quick Set Dado.

DISTRIBUTORS

Distribution throughout the 11 Western States

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.

SALES OFFICES

Arizona	Phoenix	600 W. Grant St.	F.W. Ames
California	Bakersfield	1710 Oak St.	H.R. Hammett
	Fresno	2421 Calif. Ave.	J.W. Hall
	San Francisco	120 Montgomery	A.C. Pye
Washington	Seattle	1729 Exch. Bldg.	H. Haynes

CONSTRUCTION MACHINERY CO.
 Glenwood & Vinton
 Waterloo, Iowa

PRODUCTS: Concrete, Plaster and Mortar Mixers; Truck Mixers; Hoists; Pumps.

WEST COAST REPRESENTATIVE

Iowa	Waterloo	Box 120	Edw. R. Daley
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DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Los Angeles	Garlinghouse-Fremont & Co.
	San Francisco	Standard Machinery Co.
Colorado	Denver	Gunderson-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.
	Spokane	Intermountain Equipment Co.

Seventeen out of 18 contractor readers save the WC Equipment Directory for year-long reference, value it highly in emergency contacts with equipment distributors and manufacturers!

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	B.F. Tobin, Jr.
		President	J.O. Longenecker
		VP in charge of sales	B.F. Tobin, III
		Asst. Sales Manager	J.W. Klinepeter
		Parts Manager	

WESTERN SALES AND SERVICE REPRESENTATIVES

California	Covina	780 Cypress St.	G.L. Hitchcock
	San Mateo	4102 Beresford	Frank Shanahan

DISTRIBUTORS

Arizona	Phoenix	Automotive Sales Co.
	Tucson	Smith Equipment Service
California	Bakersfield	Glenn Rose Engine Service
	El Centro	Valley Auto Supply
	Fresno	Art Schedler's Engine Rebuilders
	Long Beach	Industrial Power & Equipment
	"	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	James Requarth
	Stockton	Automotive Parts
Idaho	Twin Falls	Motor Mercantile Co.
Nevada	Las Vegas	Blystone Equipment Co.
Oregon	Portland	Automotive Equipment Co.
Utah	Ogden	Motor Mercantile Co.
	"	"
Washington	Salt Lake City	Kellogg Automotive
	Longview	A.H. Cox & Co.
	Seattle	Skaggs Automotive, Inc.
	Spokane	

CONTRACTORS MACHINERY CO.
 820 Kansas Avenue
 Kansas City 5, Kansas

PRODUCTS: New and Rebuilt Pile Driving Equipment and Accessories; Steel Sheet Piling; Rental and Sale.

THE CONVEYOR CO.
 3260 East Slauson Avenue
 Los Angeles 58, California

PRODUCTS: Batchers; 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 Batchers; Batch Printing Records; Conveyor Scales; Sand Dewatering Equipment.

COOK BROS. EQUIPMENT CO.
 3334 San Fernando Road
 Los Angeles 65, California

PRODUCTS: Heavy Duty Trucks; Truck Equipment; Challenge Truck Mixers; Crane Carriers; Dual Chain Drives; Dual Gear Drives; Dump Bodies; Hydraulic Hoists; Trailers; Telescopic Dump Trailers; Bottom Dump Trailers; Six-Wheel Attachments; Frame Extensions.

FACTORY BRANCHES

Arizona	Phoenix	2300 S. 16th St.	Robert E. Wade
California	Oakland	416 E. 8th St.	James Nelson

WESTERN REGIONAL REPRESENTATIVE

Colorado	Wheatridge	7491 W. 45th Ave.	W.L. Walsh
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WESTERN CONSTRUCTION initiated and sponsors the famous "Dr. L. I. Hewes Award," the Western highway engineer's most coveted prize for achievement!

C. I. T. CORPORATION

 120 Montgomery Street, San Francisco
 Equitable Building, Portland

416 West 8th Street, Los Angeles

OPPERWELD STEEL CO.

rick Building
Pittsburgh 19, Pennsylvania

PRODUCTS: Anchors, Brick and Furring; Boundary Line Survey Markers; Highway and Street Markers; Survey Markers; Wall Ties, Brick Veneer and Cavity.

FACTORY BRANCHES

California	Los Altos	755 Filipp Rd.	A.B. Leach
Washington	Bellevue	10219 NE 30th Pl.	L.E. McGuire

DISTRIBUTORS FOR SURVEY MARKERS

California	Los Angeles	A. Lietz Co.	1224 S. Hope St.
	San Francisco	" " "	840 Post St.

FOR ARIZONA, CALIFORNIA & NEVADA**CREATIVE METALS CORP.**

290 Powell Street
Emeryville 8, California

PRODUCTS: CMETCO — Concrete Placing Equipment; Hand Concrete Carts; Power Carts; Vibrating Screeds; Telescoping Economy Package for wood beam application; Concrete Tampers; Tilt-Up Slab Hardware Braces; Bull Floats; Concrete Floor Hoppers; Lightweight Concrete Buckets; Portable Hoppers; Collection Hoppers; Asphalt Spreader Boxes (Trench and Street).

DISTRIBUTORS

Arizona	Phoenix	Superior Equipment Co.
California	Berkeley	Jack Fingland Equipment Co.
	Los Angeles	W. J. Burke & Co.
	Sacramento	" " " "
	San Francisco	" " " "
Colorado	Denver	Ray Corson Machinery Co.
Idaho	Boise	Contractors Equipment Supply
Montana	Helena	Montana Power & Equipment
New Mexico	Albuquerque	W. J. Burke & Co.
Oregon	Portland	" " " "
Utah	Salt Lake City	Contractors Equipment & Supply
Washington	Seattle	W. J. Burke & Co.
	Spokane	Construction Equipment Co.
Wyoming	SE portion	Contractors Equipment & Supply Co.

THE F. D. CUMMER & SON CO.

1827 East 18th Street
Cleveland 14, Ohio

PRODUCTS: Bituminous Mixing Plants, portable and stationary; Aggregate Dryers from 50 to 200 tons per hour; Pugmills or Mixers from 2000 to 6000 pounds; Bucket Elevators; Storage Bins; Jacketed Piping; Dust Collectors.

In process of appointing a new group of distributors.

CUMMINS ENGINE CO., INC.

Fifth and Union Streets
Columbus, Indiana

PRODUCTS: Lightweight High-Speed Diesel Engines (60-600) for: On-highway Trucks; Off-highway Trucks; Buses; Tractors; Earthmovers; Shovels; Cranes; Industrial Locomotives; Air Compressors; Logging Yards and Loaders; Drilling Rigs; Centrifugal Pumps; Generator Sets and Power Units; Work Boats and Pleasure Craft.

REGIONAL MANAGERS

California	Los Angeles	727 W. 7th St.	W. M. Steed
Colorado	Denver	Denver Natl. Bldg.	T. J. Paxton
Washington	Seattle	Security Bldg.	C. J. Wilhite

DISTRIBUTORS

Arizona	Phoenix	Cummins Arizona Diesel, Inc.
California	Bakersfield	Cummins Service & Sales
	Fresno	Watson & Meehan
	Los Angeles	Cummins Service & Sales
	Redding	Watson & Meehan
	San Francisco	" " " "
Colorado	Denver	Cummins Diesel Sales of Colo., Inc.
Idaho	Boise	Cummins Diesel Sales of Ida., Inc.
Montana	Billings	Cummins Diesel Sales of Mont., Inc.
New Mexico	Albuquerque	Cummins Rio Grande Sales & Service
Oregon	Eugene	Cummins Diesel Sales of Ore., Inc.
	Portland	" " " "
Utah	Salt Lake City	Cummins Intermountain Diesel Sales
Washington	Seattle	Cummins Diesel Sales of Wash., Inc.
	Spokane	Cummins Diesel Sales, Inc.
Wyoming	Casper	Cummins Diesel Sales of Wyo., Inc.

CYCLONE SANDBLAST EQUIPMENT

42 Clara Street
San Francisco 7, California

PRODUCTS: Sand Blasting Machinery and Plaster Spray Machines.

DISTRIBUTORS

Colorado	Denver	M. E. Gerton
Oregon	Portland	Rhodes Sales Co.

D & M MACHINE WORKS

2304 Abalone Avenue
Torrance, California

PRODUCTS: Bottom Rollers (bearing-type) for crawler tractors.

DISTRIBUTORS

Alaska	(Seattle)	Western Tractor & Equipment Co.
Arizona	Phoenix	Equipment Sales Co.
California	Eureka	McGaraghan Supply Co.
	Fresno	Roll-Pak Filter Service
	Redding	Paul Droscher Sales
	Sacramento	Western Equipment & Supply Co.
	San Diego	Standard Iron & Supply Co.
Colorado	Denver	Denver Machine Shop
Idaho	Boise	Intermountain Equipment Co.
	Coeur d'Alene	Brack Motor Supply
	Kellogg	" " " "
Montana	Great Falls	" " " "
New Mexico	Albuquerque	Equipment Sales Co.
Oregon	Coquille	Enlund Equipment Co.
	Eugene	Eugene Equipment Co.
	Grants Pass	Redwoods Supply Co.
	John Day	Moty & Van Dyke
	LaGrande	Industrial Machinery & Supply 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	" " " "
	Spokane	Intermountain Equipment Co.
Wyoming	Casper	Keremi Tractor & Equipment Co.
	Cheyenne	" " " "

DART TRUCK CO.

2623 Oak Street
Kansas City 8, Missouri

PRODUCTS: Trucks — Off-Highway and Underground Diesel

DISTRICT REPRESENTATIVE

Utah	Salt Lake City	Lafayette Apts.	Mark Kasper
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DISTRIBUTORS

Arizona	Bisbee	Goar Service & Supply Co.
	Prescott	Prescott Tractor Sales
California	Los Angeles	Shaw Sales & Service Co.
Oregon	Portland	Balzer Machinery Co.
Utah	Salt Lake City	Arnold Machinery Co.

DAVEY COMPRESSOR CO.

600 Franklin Avenue
Kent, Ohio

PRODUCTS: Portable Compressors; Stationary Compressors; Truck Mounted Compressors; Field Repair Units; Air Tools; Rock Drills; Truck Mounted Rotary Drills.

JOHN DEERE & COMPANY

1325 - 3rd Avenue
Moline, Illinois

PRODUCTS: Crawler and Wheel-Type Tractors; Loaders; Front and Rear Blades; Snow Plows; Scoops; Fork Lifts; Mowers and Wagons; Industrial Equipment.

FACTORY BRANCHES

California	San Francisco	Box 3573 Rincon Annex J. Bohmker
		(Arizona, California and Nevada)
Oregon	Portland	215 SE Morrison St. A. G. McClary
	(Alaska, California, Idaho, Montana, Oregon & Washington)	
Utah	Salt Lake City	1841 W. 1700 South W. Essenpreis
		(Idaho, Utah and Wyoming)

More Western contractors read WESTERN CONSTRUCTION than any construction magazine in the Nation!

**C. I. T. finances installment sales
of equipment for many Distributors**

DETROIT DIESEL ENGINE DIVISION, G.M.C.
 13400 West Outer Drive
 Detroit 28, Michigan

PRODUCTS: Series 51, 71 and 110 Two-Cycle GM Diesel Engines; Single Engines, 30 to 300 HP; Multiple Engines up to 893 HP; Fan-to-Flywheel and Base Mounted (Package Power) Units; 20 to 245 KW Generator Sets for "off-the-line" or standby service.

WESTERN REGIONAL MANAGER

California San Francisco 1426 Russ Bldg. R.L.Burpee

DISTRIBUTORS AND DEALERS

Arizona	Phoenix	Min-A-Con Equipment Co.
	Yuma	Diesel Equipment, Inc.
California	Bakersfield	Lawless Brothers, Inc.
	Berkeley	West Coast Engine & Equipment Co.
	El Cajon	Deakins-Lane Diesel Co.
	El Monte	Anderson-O'Brien Co.
	Eureka	Dayton Murray Truck Sales
	Fort Bragg	West Coast Engine & Machine Wks.
	Long Beach	Anderson-O'Brien Co.
	Los Angeles	
	Marysville	Randolph Machinery Co.
	Redding	Rother Auto Parts
	Sacramento	Rhea Tractor & Engine Co.
	Stockton	Equipment Sales & Service
	Ventura	Gem Equipment Co.
	Visalia	Tulare County Tractor Co.
Colorado	Denver	The Colorado Builders Supply Co.
	Fort Morgan	D & H Diesel Power, Inc.
Idaho	Boise	Southern Idaho Equipment Co.
	Idaho Falls	" " " "
	Twin Falls	" " " "
Montana	Billings	Seitz Machinery Co., Inc.
	Great Falls	" " " "
	Kalispell	Mountain Tractor Co.
	Missoula	" " " "
Nevada	Reno	Sierra Machinery Co., Inc.
New Mexico	Albuquerque	Harry Cornelius Co.
	Clovis	Western Machinery Co.
Oregon	Coos Bay	Harbor Diesel & Supply Co.
	Eugene	Gunderson Bros. Engineering Corp.
	Medford	Witham Parts & Equipment Co.
	Newport	Campbell's Diesel Service
	Portland	Gunderson Bros. Engineering Corp.
Utah	Moab	Cate Equipment Co., Inc.
	Salt Lake City	" " " "
Washington	Bellingham	Bellingham Engine & Ept. Co., Inc.
	Seattle	Evans Engine & Equipment Co., Inc.
	Spokane	Intermountain Equipment Co.
Wyoming	Casper	The Colorado Builders Supply Co.
	N.Casper	Western Oil Tool & Mfg. Co., Inc.

DE WALT, INC.
 Fountain Avenue
 Lancaster, Pennsylvania

PRODUCTS: Woodworking Machinery; Radial Arm Saws; Tools and Accessories.

REPRESENTATIVES

California	Beverly Hills	9385 Charleville Rd.	W.H.Dudley
	Burlingame	665 Darrell Road	J.C.Hendricks
Colorado	Arvada	5975 Dover St.	F.J.Gregory
Washington	Seattle	14635 25th St. SW	J.B.Mitchell

DISTRIBUTORS

Arizona	Phoenix	Arizona Welding Equipment Co.
	Tucson	Electric Tool & Supply Co.
		Industrial Tool & Supply
California	Anaheim	Ronstadt's Hardware
	Bakersfield	Power Tool & Supply Co.
	El Centro	Bakersfield Sandstone Erick Co.
	Fresno	Imperial Hardware Co.
	Long Beach	Haven Saw & Tool Co.
	Los Angeles	Imperial Hardware Co.
	" "	Acme Industrial Supply Co.
	" "	Electric Tool & Supply
	" "	Hoffman & Heatt
	Oakland	Union Hardware & Metal Co.
	" "	Haven Saw & Tool Co.
	" "	Mechanics Tool & Supply
	Pasadena	John P.King
	Riverside	J.R.Westbrook Co.
	Sacramento	Haven Saw & Tool Co.
	San Carlos	" " " "
	San Diego	Acme Tool & Supply
	" "	Hammond Machine & Supply Co.
	" "	Whitney's Department Store
	San Francisco	Haven Saw & Tool Co.
	San Jose	" " " "
	Santa Ana	Knox Hardware
	Santa Barbara	Ott's Hardware Co.
	Santa Maria	Farmers Hardware & Implement
	Van Nuys	Builders Emporium
Colorado	Denver	Associated Builders Supply Co.
	" "	Hendrie & Boltoff Co.
	" "	Western Machinery Co.
Pueblo		Abmor Supply Co.

Continued in next column

DE WALT, INC (CONTINUED)

Idaho	Boise	M.R.Prist & Sons, Inc.
	" "	The Sawtooth Co.
	Idaho Falls	Arnold Machinery Co., Inc.
	" "	Brunts, Inc.
Montana	Lewiston	Erb Hardware Co., Ltd.
	Billings	Hall-Perry Machinery Co.
	Butte	" " " "
	Great Falls	" " " "
	Havre	Treasure State Supply Co.
	Livingston	Builders Machinery Co.
	Missoula	Missoula Mercantile Co.
Nevada	Las Vegas	Inland Service & Supply Co.
	Reno	Commercial Hardware Co.
New Mexico	Albuquerque	Equipment Sales & Mfg. Co.
	" "	Gorman Engineering Co.
Oregon	Astoria	Fisher Bros.
	Coos Bay	A-B Daly & Co.
	Corvallis	Corvallis Hardware
	Eugene	Loggers & Contractors Mch. Co.
	Portland	Chown Hardware
	" "	Loggers & Contractors Mch. Co.
	Salem	Star Machinery Co.
Utah	Salt Lake City	Salem Hardware
	" "	Arnold Machinery Co., Inc.
	" "	Industrial Supply Co.
Washington	Bellingham	Bellingham Hardware Co.
	Hoquiam	F.G.Foster
	Seattle	Northern Commercial Co.
	" "	Star Machinery Co.
	Spokane	Jensen-Byrd Co.
	" "	Star Machinery Co.
	Wenatchee	Wells & Wade
Wyoming	Casper	Wyoming Builders Service

DIAMOND CHAIN CO., INC.
 402 Kentucky Avenue
 Indianapolis 7, Indiana

PRODUCTS: Roller Chains; Sprockets; Conveyor Chains; Flexible Shaft Couplings.

REPRESENTATIVES

California	Los Angeles	900 Santa Fe Ave.	J.H.Crews, Repr.
	Menlo Park	595 Santa Cruz	H.W.King, D.M.

DISTRIBUTORS

Arizona	Phoenix	Semon Bearing & Supply Co.
	Tucson	Tucson Bearing Co.
California	Bakersfield	Power Transmission Equipment Co.
	Fresno	Pacific Mill & Mine Supply Co.
	Los Angeles	Degen-Flege Co.
	" "	Power Transmission Equipment Co.
	Sacramento	Western Industrial Supply Co.
	San Diego	Kenton Equipment Co.
	San Francisco	Horsford Bros.
	" "	Monarch Corporation
	San Leandro	" " " "
	Santa Clara	" " " "
	Stockton	Hickinbotham Bros.
Colorado	Denver	Colorado Bearing Co.
Idaho	Boise	Idaho Chain & Sprocket, Inc.
	Pocatello	Pocatello Chain & Sprocket, Inc.
Montana	Billings	Power Transmission Equipment Co.
New Mexico	Albuquerque	The Harry Cornelius Co.
Oregon	Eugene	Bearing Sales & Service
	Portland	Bearing Sales & Service
	" "	Woodbury & Co.
	Roseburg	Bearing Sales & Service
Utah	Salt Lake City	Utah Sprocket & Machinery Co.
Washington	Aberdeen	Mill & Logging Supply Co.
	Everett	Washington Belting & Rubber Co.
	Longview	Bearing Sales & Service
	Seattle	Washington Belting & Rubber Co.
	Tacoma	" " " "

DIAMOND IRON WORKS
 Div. of Goodman Manufacturing Co.
 Halsted Street & 48th Place
 Chicago 9, Illinois

PRODUCTS: Crushing Plants, portable and stationary; Jaw Crushers; Roll Crushers; Screens and Washers; Conveyors; Feeders; Bins; Hoppers; Hammermills.

DISTRICT SALES MANAGER

Colorado	Denver	2420 Olive St.	G.A.McCorison
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DISTRIBUTORS

Arizona	Phoenix	State Tractor & Equipment Co.
California	E.Los Angeles	Shaw Sales & Service Co.
	Oakland	C.H.Grant Co.
	Denver	Power Equipment Co.
Colorado	Boise	The Sawtooth Co.
Idaho	Missoula	Miller Machinery Co.
Montana	Albuquerque	J.D.Coggins Co.
New Mexico	Portland	Nelson Equipment Co.
Oregon	Salt Lake City	Lund Machinery Co.
Utah	Seattle	Conrad Creim Co.
Washington	Spokane	Western Machinery Co.

C. I. T. CORPORATION

120 Montgomery Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

DIAMOND TOOL ASSOCIATES
 940 E. El Segundo Blvd., P.O. Box 85
 Hawthorne, California

PRODUCTS: Concrete and Masonry Diamond Cutting Blades and Core Drills; Concrete Cutting Saws; Masonry Cutting Saws.

DISTRIBUTORS

California	Los Angeles	S.L. Fusco
Colorado	Boulder	Industrial Diamond Sales
	Denver	Armstrong Caster Co.
Utah	Salt Lake City	Lund Machinery Co.

DIXON VALVE & COUPLING CO.
 Hancock St. & Columbia Ave.
 Philadelphia 22, Pennsylvania

PRODUCTS: Hose Couplings and Air Valves.

FACTORY BRANCH

California	Los Angeles	2333 E. 8th St.	P.M. Hardwick
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REGIONAL MANAGER

Oregon	Portland	3935 SW 75th Ave.	Thos. P. McNiesh
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DODGE DIVISION
 Chrysler Corp.
 7900 Jos Campau
 Detroit 31, Michigan

PRODUCTS: Dodge Job-Rated Trucks.

See your nearby Dodge Truck Dealer

DORR-OLIVER, INC.
 Barry Place
 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; Fillers; Vacuum Filters; Sand Plants.

FACTORY BRANCHES

California	Los Angeles
	Oakland
Colorado	Denver
Washington	Seattle

DOTMAR INDUSTRIES, INC.
 502 Hanselman Building
 Kalamazoo, Michigan

PRODUCTS: Dotmar "Speedmaster" Curb, Gutter, Sidewalk and Highway Strip Widening; Highway Mill Curb Pavers.

DISTRIBUTORS

Alaska	(Seattle)	Northern Commercial Co.
Arizona	Phoenix	The O.S. Stapley Co.
California	Los Angeles	Gridley Equipment Co.
	Oakland	C.H. Grant Co.
Colorado	Denver	Ray Corson Machinery Co.
Montana	Billings	Western Construction Eqp. Co.
	Great Falls	" "
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Oregon	Portland	Contractors Equipment Corp.
Utah	Salt Lake City	Lund Machinery Co.
Washington	Seattle	Andrews Machinery of Wash., Inc.
Wyoming	Cheyenne	Keremi Tractor & Equipment Co.

DRAKE-WILLIAMS-MOUNT CO.
 P.O. Box 1126
 Omaha 1, Nebraska

PRODUCTS: "OMAHA" Dragline Buckets.

DISTRIBUTORS

Alaska	(Seattle)	Northern Commercial Co.
California	Berkeley	Owen Bucket Co., Ltd.
	Los Angeles	Electric Tool & Supply Co.
	" "	Garinghouse-Fremont & Co.
Colorado	Denver	H.W. Moore Co.
Oregon	Portland	P.L. Crooks & Co., Ltd.
Utah	Salt Lake City	Foulger Equipment Co.
Washington	Seattle	A.H. Cox & Co.
Wyoming	Casper	Studer Tractor & Equipment Co.

DRESSER MANUFACTURING DIVISION
 44 Fisher Avenue
 Bradford, Pennsylvania

PRODUCTS: Couplings, Pipe; Fittings; Expansion Joints; Repair Clamps, Pipe; Split Repair Sleeves, Pipe.

FACTORY BRANCH

California	S. San Francisco	101 S. Airport Blvd.	R.J. Driggs
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REGIONAL MANAGERS

California	S. San Francisco	101 S. Airport Blvd.	R.J. Driggs
Colorado	Denver	3667 Monaco Pkwy	D.V. Hackett

DISTRIBUTORS

California	Los Angeles	Bethlehem Supply Co. of Calif.
	" "	The Republic Supply Co. of Calif.
	San Francisco	Grinnell Co. of the Pacific
Colorado	Denver	Hendrie & Bolthoff Co.
Oregon	Portland	Consolidated Supply Co.
	" "	Waterworks Supplies Co.
Washington	Seattle	Western Utilities Supply Co.

DREYER VIBRATOR CO.
 509-11 East 16th Street
 Los Angeles 15, California

PRODUCTS: High Speed and Heavy Duty Concrete Vibrators.

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Fresno	Edward R. Bacon Co.
	Los Angeles	Smith-Booth-Usher Co.
	Oakland	Edward R. Bacon Co.
	Sacramento	" " " "
	San Francisco	" " " "
Colorado	Denver	Western Machinery Co.
Utah	Salt Lake City	" " " "
Washington	Seattle	Conrad Creim Co.

DROTT MANUFACTURING CORP.
 3841 West Wisconsin Avenue
 Milwaukee 8, Wisconsin

PRODUCTS: Skid-Shovels; Skid-Loaders; Bulldozer Shovels; Scarifiers; Grubber Blades.

DISTRICT REPRESENTATIVES

California	Hayward	1775 St. Andrew St.	Charles Rieckhoff
Washington	Seattle	2564 38th Ave.	Ken Gill

See your International Harvester Company Distributor

DUFF-NORTON CO.
 Coffing Hoist Division
 2709 Preble Avenue
 Pittsburgh 12, Pennsylvania

PRODUCTS: Ratchet, Screw, Hydraulic Jacks; Trench Braces; Ratchet Lever Hoists and Load Binders; Portable Electric Hoists; Spur Gear Hoists; Differential Hoists; Overhead Trolleys.

FACTORY BRANCH

California	San Francisco	1016 Howard St.	Ralph A. Ratcliff
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Distributors of both hoists and jacks in all principal cities

K.O. DUNCAN CO.
 10713 West Pico Boulevard
 Los Angeles 64, California

PRODUCTS: A Multiple Piston Hydraulic Jack for breaking concrete and rock where use of explosives is prohibited.

FACTORY BRANCH

California	El Monte	1526 N. Potrero Ave.	Frank S. Pearne, Jr.
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DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	Los Angeles	Mine & Mill Machinery Co.
	Santa Ana	Blystone Equipment Co.
Colorado	Denver	Air Rentals, Inc.
Oregon	Portland	Loggers & Contractors Mch. Co.

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

EAGLE CRUSHER CO.
Galion
Ohio

PRODUCTS: Jaw Crushers; Pulverizers; Hammermills; Portable Crushing Plants; Truck Mounted Bucket Loaders.

DISTRIBUTORS

California	Berkeley	Work Hoist & Body Corp.
	Los Angeles	Standard Auto Body Co.
	San Diego	Diesel Construction Eqpt. Co., Inc.
New Mexico	Albuquerque	J.D. Coggins Co.
Oregon	Portland	Contractors Equipment Co.
Utah	Salt Lake City	Williamson, Inc.
Washington	Seattle	Hatten Machinery Co.

EAGLE IRON WORKS
203 Holcomb Street
Des Moines 4, Iowa

PRODUCTS: Sand, Gravel, Crushed Stone and Ore Washing and Classifying Equipment; Sand Washer-Classifier-Dehydrators; Water Scalping Tanks; Revolving Cutter Head Ladders; Eagle "Swintek" Traveling Screen Chain Dredging Ladders; Gravel Washer-Dehydrators; Log Washers (Gravel, Stone and Ore); Clay Plant Equipment; Clay Crushers; Shale Planers; Breaker Balls; Pile Hammers; Follow Blocks.

DISTRIBUTORS

Arizona	Phoenix	Shriver Machinery Co.
California	Los Angeles	Brown-Bevis Industrial Eqpt. Co.
	"	Fernholtz Machinery Co.
	"	Walter C. Skoll & Sons
	San Francisco	Coast Equipment Co.
Colorado	Denver	H.W. Moore Equipment Co.
Idaho	Boise	Intermountain Equipment Co.
Montana	Billings	Western Construction Equipment Co.
	Missoula	"
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	N.C. Ribble Co.
Oregon	Portland	Balzer Machinery Co.
Utah	Salt Lake City	The Lang Co.
Washington	Seattle	Sahlberg Equipment, Inc.
	Spokane	Intermountain Equipment Co.
Wyoming	Casper	Kerem Tractor & Equipment Co.
	Cheyenne	"

EARTHCAVATOR CO., INC.
14882 E. Firestone Blvd.
Buena Park, California

PRODUCTS: Scrapers with Scarifiers.

DISTRIBUTORS

California	Los Angeles	Tractor Equipment Distributors
	Richmond	Pacific Tractor & Implement
Oregon	Portland	Columbia Tractor & Implement

EARTH EQUIPMENT CORP.
2036 Sacramento Street
Los Angeles 21, California

PRODUCTS: Everett Trenchers, Model S Series, Model 60 Series.

DISTRIBUTORS

Arizona	(Los Angeles)	The Tractor Sales Corp.
California	Los Angeles	"
Colorado	Denver	Interstate Tractor Sales, Inc.
Idaho	(Salt Lake)	General Implement Distribs, Inc. (So.)
	(Portland)	R.M. Wade & Co. (Northern)
Nevada	(Los Angeles)	The Tractor Sales Corp.
New Mexico	Albuquerque	Western Tractor Corp.
Oregon	Portland	R.M. Wade & Co.
Utah	Salt Lake City	General Implement Distributors, Inc.
Washington	(Portland)	R.M. Wade & Co.
	(Salt Lake)	General Implement Distributors, Inc.
Wyoming	(Denver)	Interstate Tractor Sales

EATON MANUFACTURING CO.
Axle Division
739 East 140th Street
Cleveland 10, Ohio

PRODUCTS: Truck Axles, Front and Rear; Single Reduction, 2-speed, Tandem.

DISTRIBUTORS

See your local truck dealer

Selling the West is an eleven-state job . . . WESTERN CONSTRUCTION covers it all!

ECONOMY FORMS CORP.
4301 Northeast 14th Street
Des Moines 13, Iowa

PRODUCTS: Steel Forms for concrete construction; Ties for Economy and EFCO Forms.

FACTORY BRANCHES

California	Los Angeles	5718 Long Beach Ave.	Robt. Crowe
Colorado	Denver	2863 Walnut St.	E. L. Morrett

REPRESENTATIVE

California	Oakland	190 MacArthur Blvd.	L.S. Dingman
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E.H. EDWARDS CO.
Butler Road
South San Francisco, California

PRODUCTS: Wire Rope.

FACTORY BRANCHES

California	Los Angeles	Paul Sanderson	Manager
	San Francisco	Fred Butler	"
Oregon	Portland	George Kreyser	"
Washington	Seattle	John Hockaday	"

THE EIMCO CORP.
634 South Fourth West Street
P.O. Box 300
Salt Lake City 10, Utah

PRODUCTS: Crawler Tractors; Bulldozers; Angledozer; Loaders (Diesel, for surface); (Air, Electric, for underground); Solid Scrapers; Folding Scrapers (Mining); Filters, all types vacuum and pressure.

FACTORY BRANCHES

California	Berkeley	637 Cedar St.	J.K. Russell
	San Mateo	420 Peninsular Ave.	B.A. Schepman
Idaho	Kellogg	307 N. Division St.	C.H. Heyer
Texas	El Paso	Mills Bldg.	H.W. Foester
Washington	Seattle	Hoge Bldg.	B.J. Dickinson

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.	Hal Robb
	Los Angeles	6415 E. Corvette St.	Joe Blake
Oregon	Eugene	1464 W. Sixth St.	Lloyd Maxwell
Washington	Seattle	1131 W. Hanford St.	Bill Latimer
	Spokane	N. 1327 Washington	Nello Vanelli

DISTRICT REPRESENTATIVES

Arizona	Phoenix	P.O. Box 7265	Rolly Topping
Colorado	Denver	P.O. Box 534	Gordon Ley
Utah	Salt Lake City	P.O. Box 1379	Frank Cook

DISTRIBUTORS

Arizona	Phoenix	Arizona Machinery Co.
Colorado	Denver	McCoy Company
Idaho	Boise	Intermountain Equipment Co.
	Pocatello	"
Utah	Salt Lake City	Foulger Equipment Co.
Washington	Spokane	Intermountain Equipment Co.

ELECTRIC TAMPER & EQUIPMENT CO.
Ludington
Michigan

See listing under JACKSON VIBRATORS, INC.

WESTERN CONSTRUCTION is first choice of equipment manufacturers—first choice is built into WC!

More first place editorial awards have been won by WESTERN CONSTRUCTION than any construction magazine west of New York!

C. I. T. CORPORATION

120 Montgomery Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

ENGINEERED EQUIPMENT, INC.

01 Linden Avenue
Harloo, Iowa

PRODUCTS: Batch Plants; Ready Mix Concrete Plants; Cement Storage Plants; Bulk Bins; "JETCRETERS" 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	Western Machinery Co.
California	Los Angeles	Garlinghouse, Fremont Co.
Colorado	Denver	Gunderson-Taylor Machinery Co.
	Grand Junction	"
Idaho	Boise	Feenaughty Machinery Co.
Montana	Billings	Industrial Equipment Co.
	Great Falls	Normont Equipment Co.
Nevada	Reno	Reno Equipment Sales Co.
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Portland	Feenaughty Machinery Co.
Utah	Salt Lake City	Heiner Equipment Co.
Washington	Seattle	Hatten Machinery Co.
		Universal Equipment Co.
Wyoming	(Denver)	Gunderson-Taylor Machinery 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.
	"	Neill 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 Eqpt. Co.
	"	San Joaquin Tractor Co.
	Berkeley	West Coast Engine & Equipment Co.
	Chico	Sierra Tractor & Equipment Co.
	El Monte	Warnock-Bancroft Equipment Co.
	Fresno	Allied Equipment Co.
	Los Angeles	Brown-Bevis Industrial Eqpt. Co.
	"	Calavar Corporation
	"	Casey-Metcalf Machinery Co.
	"	Crook Company
	"	Essick Machinery Co.
	"	Garlinghouse, Fremont Co.
	"	Harron Rickard & McCone
	"	Santa Fe Equipment Co., Inc.
	"	Schramm, Inc.
	"	Shepherd Tractor & Equipment Co.
	"	Smith-Booth-Usher Co.
	Marysville	Sacramento Valley Tractor Co.
	Modesto	Stanislaus Implement & Hardware Co.
	Oakland	Bay Cities Equipment, Inc.
	"	Buran Equipment Co.
	"	C.H. Grant Co.
	"	Spears-Wellis Machinery Co.
	Redding	Sullivan & Crowe Equipment Co.
	Richmond	Bay Equipment Co.
	Salinas	Farmers Mercantile Co.
	San Francisco	Edward R. Bacon Co.
	"	Coast Equipment Co.
	"	Contractors Machinery Co.
	"	Standard Machinery Co.
	San Jose	Valley Equipment Co.
	Stockton	Graco
Colorado	Denver	Moore Equipment Co.
	"	Constructors Equipment Co.
	"	Ray Corson Machinery Co.
	"	McCoy Company
	"	Western Machinery Co.
Idaho	Boise	Engineering Sales Service, Inc.
	"	Feenaughty Machinery Co.
	"	Starline Equipment Co.
	"	Western Equipment Co.
Montana	Idaho Falls	Southern Idaho Equipment Co.
	Billings	Seltz Machinery Co., Inc.
	Butte	Hall-Perry Machinery Co.
	Helena	Caird Engineering Works
	"	Montana Power & Equipment Co.
	Missoula	Mountain Tractor Co.
	Kalispell	Treasure State Equipment Co.
	Sidney	Tractor & Equipment Co.
Nevada	Elko	A-D Machinery Co., Inc.
	Reno	Nevada Equipment Service, Inc.
	"	Sierra Machinery Co., Inc.

Continued in next column

ERIE STRAYER CO. (CONTINUED)

New Mexico	Albuquerque	J.D. Coggins Co.
	"	Contractors Equipment & Supply Co.
	"	The Winter Weiss Co. of New Mexico
Oregon	Cave Junction	Illinois Valley Hardware
	Klamath Falls	Haupt Tractor Co.
	"	J.W. Kerns, Oregon, Ltd.
	"	Moty & Van Dyke, Inc.
	"	Haupt Tractor Co.
	Medford	Andrews & Andrews Equipment Co.
	Portland	Balzer Machinery Co.
	"	M.F. Brady Equipment Co.
	"	Clyde Equipment Co.
	"	Columbia Equipment Co.
	"	Cramer Machinery Co.
	"	P.L. Crooks & Co., Inc.
	"	Feenaughty Machinery Co.
	"	Howard-Cooper Corp.
	"	Loggers & Contractors Machinery Co.
	"	Nelson Equipment Co.
	"	Western Equipment Co.
Utah	Salt Lake City	Arnold Machinery Co.
	"	Heiner Equipment & Supply Co.
	"	Kimball Equipment Co.
	"	The Lang Co.
	"	Lund Machinery Co.
	"	Rasmussen Equipment Co.
	"	Rocky Mountain Machinery Co.
	"	Western Machinery Co.
	"	Wheeler-Kershaw Co.
Washington	Seattle	Air-Mac, Inc.
	"	Andrews Machinery of Washington
	"	Clyde Equipment Co.
	"	Feenaughty Machinery Co.
	"	Modern Machinery Co., Inc.
	"	Pacific Hoist & Derrick Co.
	"	Totem Equipment Co.
	"	Washington Machinery Co.
	"	Andrews Equipment Service
	"	Ferris Equipment Co.
	"	Feenaughty Machinery Co.
	"	General Machinery Co.
	"	Intermountain Equipment Co.
	"	Modern Machinery Co., Inc.
	"	Western Machinery Co.
Wyoming	Casper	Moss Equipment & Supply Co.
	"	Studer Tractor & Equipment Co.
	Cheyenne	Keremi Tractor & Equipment Co.
	"	Wortham Machinery Co.

ESSICK MANUFACTURING CO.

1950 Santa Fe Avenue
Los Angeles 21, California

PRODUCTS: Bituminous Distributors; Portable and Stationary Compressors; Dredging Equipment; Material Handling Hoists; Paving Material Levellers; Plaster, Mortar, Concrete and Plant Mixers; Self-Priming and Diaphragm Power Pumps; Tandem Road Rollers; Vibrating Rollers; Paving Material Spreaders; Road Roller Trailers; Winches; Mortar Boxes; Weed and Pest Control Equipment.

DISTRIBUTORS

Alaska	(Seattle)	Northern Commercial Co.
Arizona	Phoenix	Equipment Sales Co.
California	Arvin	E.O. Mitchell, Inc.
	Bakersfield	"
	El Centro	W.K. Equipment Co.
	Fresno	Contractors Equipment & Supply
	Lancaster	Pickus Brothers
	Oakland	Ricker Machinery Co.
	Ontario	A.A. Equipment Sales & Rentals
	Oxnard	L.G. Maulhardt Equipment Co.
	Porterville	Porterville Farm Implement Co.
	Riverside	W.K. Equipment Co.
	Redding	Sullivan & Crowe 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
	"	Western Equipment Co.
Montana	Billings	Montana Power & Equipment Co.
	Helena	"
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.
	"	Clyde Equipment Co.
	"	Cramer Machinery Co.
	"	Lund Machinery Co.
	"	The Salt Lake Hardware Co.
Washington	Seattle	Clyde Equipment Co.
	"	W.J. Burke & Co.
	"	Western Tractor & Equipment Co.
	"	General Machinery Co.
Wyoming	Spokane	Studer Tractor & Equipment Co.
	Casper	"

**C. I. T. finances installment sales
of equipment for many Distributors**

E.D. ETNYRE & CO.
700 Jefferson Street
Oregon, Illinois**PRODUCTS:** Bituminous Curb Paver; Bituminous Distributors; Hauling Tanks and Maintenance Units; Asphalt Pumps; Street Flushers and Sprinklers.**DISTRIBUTORS**

Alaska	(Seattle)	The Carrington Co.
Arizona	Phoenix	Neil B. McGinnis Co.
California	Los Angeles	Crook Company
	Oakland	C.H. Grant Co.
Colorado	Denver	Colorado Builders & Supply Co.
Idaho	Boise	Intermountain Equipment Co.
	Pocatello	" " "
Montana	Billings	Industrial Equipment Co.
	Great Falls	Normont Equipment Co.
	Kalispell	Treasure State Equipment Co.
Nevada	Las Vegas	Clark County Wholesale Merc. Co.
New Mexico	Albuquerque	R.L. Harrison Co.
Oregon	Eugene	Howard-Cooper Corp.
	Klamath Falls	" " "
	Portland	" " "
	Roseburg	" " "
Utah	Salt Lake City	Kimball Equipment Co.
Washington	Seattle	Howard-Cooper Corp.
	Spokane	Intermountain Equipment Co.
Wyoming	Casper	Colorado Builders' Supply Co.

EUCLID DIVISION
General Motors Corp.
1361 Chardon Road
Cleveland 17, Ohio**PRODUCTS:** Crawler Tractors; Scrapers; Off-the-Road Rear Dumps; Bottom Dumps; Rock Haulers; Belt Conveyor Loaders; Coal Haulers.**WESTERN REGIONAL MANAGER**

California Oakland Latham Sq. Bldg., Rm. 201 M.H. Johnson

DISTRICT SALES REPRESENTATIVES

California	San Mateo	181A Hillsdale Blvd.	W.B. Dickerson
Colorado	Denver	320 Krameria St.	Blane Currence
Montana	Great Falls	3716 6th Ave. No.	M.W. Miller
Washington	Spokane	633 21st Ave.	J.S. Spilman

DISTRIBUTORS

Alaska	Anchorage	Evans Engine & Equipment Co., Inc.
Arizona	Phoenix	Min-A-Con Equipment Co.
California	Puente	George M. Philpott Co., Inc.
	Oakland	" " " " "
	Sacramento	" " " " "
	San Francisco	" " " " "
	Fresno	" " " " "
Colorado	Denver	Colorado Builders Supply Co.
Idaho	Boise	Intermountain Equipment Co.
	Pocatello	" " " " "
Montana	Billings	Hall-Perry Machinery Co.
	Butte	" " " " "
	Great Falls	" " " " "
	Missoula	" " " " "
Nevada	Reno	Sierra Machinery Co., Inc.
New Mexico	Albuquerque	Lively Equipment Co.
Utah	Salt Lake City	Archer Tractor & Machinery Co.
Washington	Seattle	Evans Engine & Equipment Co., Inc.
	Spokane	Intermountain Equipment Co.
Wyoming	Casper	Colorado Builders Supply Co.

EVEREADY BRIKSAW CO.
1509 S. Michigan Boulevard
Chicago 5, Illinois**PRODUCTS:** Masonry Saws and Blades; Concrete Saws and Blades.**DISTRIBUTORS**

Arizona	Phoenix	Baker-Thomas Co.
Tucson		Industrial Tool & Supply Co.
California	Fresno	Edward R. Bacon Co.
	Los Angeles	Calmo Engineering Co.
	" "	M.N. Thackerberry Co.
	" "	Waco-May Scaffolding Co.
	San Diego	Southern Equipment & Supply Co.
	San Francisco	Edward R. Bacon Co.
	" "	E.J. Bartells Co.
	Sacramento	Edward R. Bacon Co.
	Santa Monica	Higgins Building Materials Co.
Colorado	Denver	Western Machinery Co.
	Grand Junction	" " " " "
Montana	Billings	Hall-Perry Machinery Co.
	Butte	" " " " "
	Great Falls	" " " " "
New Mexico	Albuquerque	Frank's Supply Co.
	Carlsbad	Mine & Mill Supply Co.
	Hobbs	Leaco Company
Oregon	Portland	E.J. Bartells Co.
Utah	Salt Lake City	Clyde G. Larsen Co.
	" "	Western Machinery Co.
Washington	Seattle	E.J. Bartells Co.
	" "	Star Machinery Co.
	Spokane	E.J. Bartells Co.
	" "	Star Machinery Co.

F.A.B. MANUFACTURING CO.
1249 - 67th Street
Oakland 8, California**PRODUCTS:** Heavy Duty Automotive Transportation Equipment; Six Wheel Truck Conversions; Dual Drive Truck Conversions; Front Wheel Drive Truck Conversions; Semi-Trailers; Full Trailers; Log Trailers; Machinery and Shovel Trailers.**FACTORY PERSONNEL**

California	Oakland	1249 - 67th St.
	President	H.D. Ainsworth
	Vice President	Newton J. Hale
	Chief Engineer	Laine J. Ainsworth

DISTRIBUTORS

Arizona	Phoenix	Welch Manufacturing Co.
California	Los Angeles	Lambert Co., Ltd.
Colorado	Denver	The Woebor Auto Body & Mfg. Co.
Idaho	Boise	Boise-White Truck & Eqpt. Co.
	Pocatello	Williamsen Body & Equipment Co.
Montana	Great Falls	Johnson Distributing Co.
New Mexico	Albuquerque	Winter-Weiss Co. of New Mexico
Oregon	Portland	Rudy Yost Truck Equipment
Utah	Ogden	Williamsen Body & Equipment Co.
	Salt Lake City	Williamsen's, Inc.
Washington	Seattle	Truck Welding & Equipment Co.
	Spokane	American Machine Co.

FAIRFIELD ENGINEERING CO.
324 Barnhart Street
Marion, Ohio**PRODUCTS:** Portable Belt Conveyors; Brick Conveyors; Builder Conveyors; Concrete Conveyors; Stationary Conveyors; Bucket Elevators; Under-car Unloaders and Power Buggies; Material Spreaders.**DISTRIBUTORS**

Arizona	Phoenix	Superior Equipment Co.
California	Berkeley	West Coast Engine & Eqpt. Co.
	Palo Alto	King Becker Co.
	San Francisco	Matthis Company
	South Gate	Cost Reduction Equipment Co.
Colorado	Denver	W.D. Woodruff
Idaho	Boise	Starline Equipment Co.
	" "	G.H. White
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Utah	Salt Lake City	Western Sales Engineering
Washington	Seattle	Air-Mac, Inc.
	" "	Northern Commercial Co.
	Spokane	Continental Coal Co.

FELKER MANUFACTURING CO.
1128 Border Avenue
Torrance, California**PRODUCTS:** Concrete Cutters; Masonry Saws; Diamond Abrasive Blades; Diamond Abrasive Core Drills; Silicon Carbide Abrasive Blades.**WESTERN DIVISION MANAGER**

California Torrance 1128 Border Ave. J.M. Goebel

DISTRIBUTORS

Arizona	Phoenix	Superior Equipment Co.
Tucson		AWECO Supply Co.
California	Los Angeles	Hickerson Supply Co.
	San Francisco	" " "
	" "	Standard Machinery Co.
Nevada	Las Vegas	Inland Service & Supply Corp.
New Mexico	Albuquerque	New Mexico Steel Co.
Oregon	Canyon City	H. & S. Machine Works
	Portland	Masons Supply Co.
Utah	Salt Lake City	Contractors Equipment & Supply Co.
	" "	Equipment Supply Co.
Washington	Seattle	A.H. Cox & Co.
	Spokane	Concrete Supplies Co.

FLAHERTY MANUFACTURING, INC.
West Cedar Street, P.O. Box 1042
Pocatello, Idaho**PRODUCTS:** H-K Imperial Portable Roll Crusher; Parson Win-Ro Spreader; Spread-Master Power Spreader.**DISTRIBUTORS**

Alaska	Anchorage	Craig Taylor Equipment Co.
Arizona	Phoenix	Western Machinery Co.
California	Los Angeles	Industrial Engine Service
	Oakland	Spears-Wellis Machinery Co.
Colorado	Denver	Johnson-Tudor Co.
Montana	Missoula	Mountain Tractor Co.
New Mexico	Albuquerque	Lively Equipment Co.

More of the West's State and County highway engineers read WC than any construction magazine in the Country!

LASH-R-LITE CORP.
945 Blake Avenue
Los Angeles 39, California

PRODUCTS: Warning Lites and Barricades with Scotch Lite Signs for use by contractors on construction jobs, and other similar projects.

FACTORY BRANCH MANAGERS

California	Oakland	351 Embarcadero	K.L.Thurston & Wm.L.Selig, Jr.
	San Diego	1815 Hancock	Ned C.Crawford
	Santa Barbara	519½ Flg St.	R.Chamberlin
	Santa Clara	1706 Grant St.	R.Burton Rose

FLECO CORPORATION
1375 West Church Street
Jacksonville 3, Florida

PRODUCTS: Detachable Stumper; Pull Stumper, Root Rake; Rock Rake; Brush Rake; Treedozer; Tree Cutter; Under-cutter; Root Cutters; Cab Guards; Rolling Choppers; Sub-Tillage Tools; Heavy Duty Tool Bars.

DISTRIBUTORS

All Fleco-Caterpillar Tractor Co. dealers

FLEXIBLE ROAD JOINT MACHINE CO.
Warren
Ohio

PRODUCTS: Concrete Road Building Machinery.

DISTRICT MANAGER

California	Redondo Beach	P.O.Box 427	Ken Simpson
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DISTRIBUTORS

California	Los Angeles	Garlinghouse, Fremont & Co.
	San Francisco	Coast Equipment Co.
Colorado	Denver	Rocky Mountain Eqp. & Supply Co.
Idaho	Boise	Western Equipment Co.
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Oregon	Portland	Columbia Equipment Co.
Utah	Salt Lake City	The Lang Company

FLEXIBLE STEEL LACING CO.
4607 Lexington Street
Chicago 44, Illinois

PRODUCTS: Alligator V-Belt Fasteners; Alligator Belt Lacing; Alligator Belt Cutters; Flexco Belt Fasteners; Turtle Belt Fasteners; Flex V-Belt Fasteners.

SALES REPRESENTATIVES

California	San Mateo	10 Jody Court	James McComb
Washington	Seattle	2403 W.197th St.	John Marshall

FORD MOTOR CO.
Tractor & Implement Division
1007 Financial Center Bldg.
Oakland 12, California

PRODUCTS: Tractors and Equipment.

REGIONAL REPRESENTATIVES

California	Oakland	1007 Financial Center Bldg.
	Sales Manager	Frank Hobbs
	Sales Representative	T.W.Heming
		R.A.Pender
	Industrial Sales Representative	F.L.Martin
	Parts Sales Representative	J.W.Bressler
	Service Representative	G.W.Riley
	Service Representative	H.D.Wark

DISTRIBUTORS

California	Los Angeles	Tractor-Equipment Distributors, Inc.
	Richmond	Pacific Tractor & Implement Co.
Montana	Billings	Wymont Tractor & Equipment Co.
Oregon	Portland	Columbia Tractor & Implement Co.
Utah	Salt Lake City	Intermountain Ford Tractor Sales Co.

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.

REGIONAL OFFICE

California	Los Angeles	3460 Wilshire Blvd.
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FOSTER TRAILER CO., INC.
2026 Bay Street
Los Angeles 21, California

PRODUCTS: Tilt Bed Trailers; Lowbed Trailers; "Jo-Dogs" (detachable 3rd axles for trucks).

DISTRIBUTORS

Arizona	Phoenix	Superior Coach Sales & Service
California	Los Angeles	Shaw Sales & Service Co.
	" "	Smith-Booth-Usher Co.
	Riverside	Shaw Sales & Service Co.
	San Francisco	Heil Equipment Co.
	San Diego	Shaw Sales & Service Co.
	Santa Barbara	Buck Sales, Inc.
	Tustin	Schneider Tractor Co.
Idaho	(Portland)	Schetky Equipment Corp.
Nevada	Las Vegas	Clark County Wholesale Merc. Co.
Oregon	Portland	Schetky Equipment Co.

THE FOUR WHEEL DRIVE AUTO CO.
East 12th Street
Clintonville, Wisconsin

PRODUCTS: Four and Six-Wheel Drive Trucks; Truck Derricks; Earth Drills; Fire Engines; Road Maintenance Equipment; Snow Plows; Winches; Trailers.

DISTRICT SALES MANAGERS

California	Millbrae	837 Hawthorne Way	Ronald C.Gehrke
	Pomona	2204 Virginia Ave.	Jack Kelly
Colorado	Denver	1001 University	Robert Ashley

DISTRIBUTORS

Arizona	Phoenix	Arizona Cedar Rapids Co.
California	Los Angeles	Calavar Corp.
	San Francisco	The FWD Pacific Co.
Colorado	Denver	Macdonald Equipment Co.
Idaho	Boise	Feenaughty Machinery Co.
Montana	Helena	Steffeck Equipment Co.
New Mexico	Albuquerque	N.C.Ribble Co.
Oregon	Portland	Feenaughty Machinery Co.
Utah	Salt Lake City	Kimball Equipment Co.
Washington	Seattle	Feenaughty Machinery Co.
	Spokane	"
Wyoming	Casper	Studer Tractor & Equipment Co.

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	"	John Calvert
	Los Angeles	"	C.R.McCuddin
	Oakland	"	L.F.Plummer
	Sacramento	"	Paul F.Woth
Oregon	Portland	"	W.T.Jarvis
Texas	El Paso	"	R.E.Strother
Utah	Salt Lake City	"	W.P.Quinn
Washington	Seattle	"	A.V.Tice

FULLER MANUFACTURING CO.
Kalamazoo
Michigan

PRODUCTS: Transmissions; Steering Axles and Trailer Axles.

Western District Branch	(Warehousing for wholesale only)
California	Oakland
	641 East 10th Street
	E.L.King, Mgr.

Sales to branches and dealers of truck and trailer builders who use Fuller transmissions and Shuler axles as original equipment.

FULLERFORM MANUFACTURING CO., INC.
24 E. Pioneer Street
Phoenix, Arizona

PRODUCTS: Concrete Ditch Lining Equipment; Irrigation Control Valves; Irrigation Ditch Checks; Irrigation Ditch Stops; Permanent Irrigation Swinging Gates.

DISTRIBUTORS

Arizona	Buckeye	Dan R.Fuller
	Casa Grande	Eddie Givens Ditching Co.
	Chandler	Wm.R.Hunter
	Coolidge	C S & R Ditch Lining Co.
	Gilbert	Wm.R.Hunter
	Litchfield	Dan R.Fuller
	Mesa	Barney & Babcock
	Phoenix	Agriculture Construction Engrg.
	"	Allred & Co.
	"	R.Fuller Co.

Continued on next page

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

FULLERFORM MANUFACTURING CO., INC. (CONTINUED)

	Safford	Gila Valley Concrete Co.
	Tolleson	R. Fuller Co.
	Yuma	James F. Bianconi
	"	Art Zufelt Construction Co.
California	Avenal	Fullerform Concrete Ditch Lining Co.
	Bakersfield	" " "
	Chico	Butte Creek Rock Co.
	Daggett	Cool Water Ranch
	El Centro	Chas. A. Bratton
	Los Banos	Robal Ditch Construction Co.
	Woodland	McWin Concrete Ditch Liners
Colorado	Denver	Accessory Supply Co.
	Fort Morgan	Jacob Dorn & Son
	Greeley	Torrez Construction Co.
	"	Chas. E. Willson & Co.
	Rocky Ford	Valley Concrete Co.
Idaho	Twin Falls	Concrete Ditch Lining Service
Nevada	Tuscarora	Petan Co. - Y.P. Ranch
New Mexico	Artesia	Concrete Ditch Liners Co.
	Deming	Robert S. Palmer, Inc.
	Hagerman	Hagerman Ready-Mixed Concrete Co.
Oregon	Klamath Falls	Panhandle Trucking, Inc.
	Vale	Philip R. Congrove
Utah	Cedar City	Kenneth C. Clark
	Tremonton	Germer, Abbott & Waldron

GMC TRUCK & COACH DIVISION
General Motors Corporation
600 South Boulevard East
Pontiac 11, Michigan

PRODUCTS: GMC Trucks, Gasoline and Diesel.

DEALERS IN ALL PRINCIPAL CITIES

THE GALION ALLSTEEL BODY CO.
605 South Market Street
Galion, Ohio

PRODUCTS: Hydraulic Hoists and Dump Bodies.

WESTERN REGIONAL MANAGER

Nebraska Omaha 55 Neptune Pl., Carter Lake G.J. Bockmann

DISTRIBUTORS

Arizona	Phoenix	Welch Manufacturing Co.
California	Los Angeles	Jumbo Equipment Co.
	Oakland	F.A.B. Manufacturing Co.
Colorado	Denver	Truck Equipment Co.
Idaho	Boise	Gate City Steel Co.
Montana	Billings	Midland Implement Co.
Oregon	Portland	Newell Truck Equipment Co.
Washington	Seattle	Truck Welding & Equipment Co.

THE GALION IRON WORKS & MFG. CO.
South Street
Galion, Ohio

PRODUCTS: Motor Graders; Road Rollers; Graders; Tandem Rollers; Grader Blades; Scarifiers.

DISTRICT REPRESENTATIVES

California	Altadena	3273 Mt. Curve	Dan Penkoff
Oregon	Portland	3902 NE 36th Ave.	Robert Shears

DISTRIBUTORS

Alaska	(Seattle)	The Carrington Co.
Arizona	Phoenix	Arizona Cedar Rapids Co.
	Tucson	F. Ronstadt Hardware Co.
California	Bakersfield	Brown-Bevis Industrial Eqpt. Co.
	Eureka	Howard-Cooper Corp. of California
	Five Points	Allied Equipment Co.
	Fresno	" " "
	Los Angeles	Brown-Bevis Industrial Eqpt. Co.
	Madera	Allied Equipment Co.
	Oakland	Bay Cities Equipment Co.
	Reedley	Allied Equipment Co.
	(Reno)	Nevada Equipment Service Co.
	Riverside	Bramen-Dickerson Co., Inc.
	Sacramento	Sacramento Valley Tractor Co.
	Salinas	Farmers Mercantile Co.
	Santa Rosa	Stevenson Equipment Co., Inc.
	Stockton	Graco
	Stratford	Orton's Equipment Co., Inc.
	Watsonville	Farmers Mercantile Co.
Colorado	Denver	H.W. Moore Equipment Co.
	Grand Junction	" " "
Montana	Billings	Industrial Equipment Co.
	Great Falls	Power Equipment Co.
	Kalispell	Treasure State Equipment Co.
	Missoula	" " "
Nevada	Las Vegas	Clark County Wholesale Merc. Co.
	Reno	Nevada Equipment Co.
	(Salt Lake)	The Lang Co.

Continued in next column

THE GALION IRON WORKS & MFG. CO. (CONTINUED)

" New Mexico	Albuquerque	J.D. Coggins Co.
	Farmington	" " "
	(El Paso)	Border Machinery Co.
Oregon	Albany	Howard-Cooper Corp.
	Central Point	" " "
	Coquille	" " "
	Eugene	" " "
	Pendleton	Pendleton Grain Growers, Inc.
	Portland	Howard-Cooper Corp.
	Roseburg	" " "
	(Seattle)	" " "
Utah	Salt Lake City	The Lang Co.
Washington	Seattle	Howard-Cooper Corp.
Wyoming	Casper	Western Equipment Co.
	(Billings)	Industrial Equipment Co.
	(Salt Lake)	The Lang Co.

F. J. GALLAND & CO.
1200 - 4th Street
Berkeley, California

PRODUCTS: Portable Gasoline Powered Electric Generators.

DISTRIBUTORS

Arizona	Tucson	Industrial Tool & Supply Co.
California	Anaheim	Power Tool & Supply Co.
	Oakland	United Automotive Service
	Sacramento	Sacramento Machinery Co.
New Mexico	Albuquerque	Construction Machinery Co.
Oregon	Medford	Equipment Supply Co.
	Portland	Andrews & Andrews Equipment Co.
Texas	El Paso	Border Machinery Co.

GAR-BRO MANUFACTURING CO.
2415 East Washington Boulevard
Los Angeles 21, California

PRODUCTS: Concrete Handling and Placing Equipment.

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
	"	Lee Redman Equipment Co.
	"	Western Machinery Co.
California	Los Angeles	Garlinghouse-Fremont Co.
	San Francisco	Edward R. Bacon Co.
Colorado	Denver	Western Machinery Co.
Idaho	Boise	Intermountain Equipment Co.
Montana	Butte	Hall-Perry Machinery Co.
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Oregon	Portland	Loggers & Contractors Mch. Co.
Utah	Salt Lake City	Arnold Machinery Co.
Washington	Seattle	A.H. Cox & Co.
	Spokane	Construction Equipment Co.
Wyoming	Casper	Studer Tractor & Equipment Co.
	Cheyenne	Keremi Tractor & Equipment Co.

GARDNER-DENVER CO.
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.

FACTORY BRANCHES

California	Los Angeles	Manager	W.A. Nilsson
	San Francisco	"	C.H. Dirks
Colorado	Denver	"	H.F. Gerhauser
Idaho	Wallace	"	E.E. Vaughan
Montana	Butte	"	R.S. Gibson
Utah	Salt Lake City	"	F.B. Matheson
Washington	Seattle	"	B.D. Elliot

DISTRIBUTORS

Arizona	Phoenix	D.W. Jaquays & Co.
California	Los Angeles	Compressor Service Co.
	"	Pneumatic Machinery Co.
	San Francisco	George M. Philpott Co.
	Eureka	Rogers Machinery Co.
Colorado	Denver	Air Rentals, Inc.
	"	Farris-Moritz Equipment Co.
Idaho	Pocatello	Fishery Manufacturing Co.
Montana	Great Falls	Central Machinery Co.
	Sidney	Tractor & Equipment Co.
	"	Westmont Tractor Co.
New Mexico	Albuquerque	R.L. Harrison Co.
	Vanadium	Mine Supply, Inc.
Oregon	Portland	George M. Philpott Co.
	"	Rogers Machinery Co.
	"	R.M. Wade & Co.
Utah	Monticello	Western Mine Supply
	Salt Lake City	The Galigher Company
	"	The Lang Co.
	"	Mine & Smelter Supply Co.
	Moab	George W. Manson
	"	Plateau Hardware, Inc.
Washington	Spokane	Modern Machinery Co.

C. I. T. CORPORATION

120 Montgomery Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

ARRISON MANUFACTURING CO.

509 East Sheila Street
Los Angeles 23, California

PRODUCTS: Hydraulic Steering Boosters and special hydraulic equipment for trucks, truck cranes, graders and tractors.

DISTRIBUTORS

Arizona	Phoenix	Truck Equipment Co.
	Los Angeles	Calavar Corporation
	"	White Motor Co.
Idaho	Boise	Boise White Truck & Eqpt. Co.
Nevada	Reno	Sierra Truck & Trailer Co.
Oregon	Albany	Oregon Truck Sales
	Portland	White Motor Co.
Utah	Salt Lake City	Linder & Wood White Motor Sales
New Mexico	Albuquerque	Inland White Truck Co.
Washington	Spokane	Jones White Truck Co.
Wyoming	Casper	Century White Truck Co., Inc.

GAR WOOD INDUSTRIES, INC.

South Fourth & Wright Streets
Richmond, California

PRODUCTS: Gar Wood Hoists and Dump Bodies; Winches; Cranes; Derricks; Bottom Dump Hopper Bodies; Elevating End Gates; Hi-Lift Hoists; Load-Packer and Speed-Packer Refuse Collection Bodies; National Lift Jumbo Hoists; Pick-Up Dump-O-Matic Hoists; Lift-O-Matic Tailgate Lifts.

FACTORY BRANCH MANAGERS

California	Los Angeles	4515 S.Soto St.	A.F.Hoop
	Richmond	Bay Area Sales	Earl Berthold

SALES OFFICES

California	Richmond	Division Manager	M.L.Shepard
	"	Div. Sales Mgr.	Geo.F.Martin
Idaho	Boise	District Manager	W.E.Ranck

DISTRIBUTORS

Arizona	Phoenix	Allison Steel Mfg. Co.
California	Bakersfield	California Truck & Ind. Eqpt. Co.
	Fresno	Ruckstell California Sales Co.
	Pomona	Win Ward Co.
	San Diego	Utility Trailer Sales Co.
Idaho	Boise	The Sawtooth Co.
Montana	Great Falls	Erwin H.Johnson, Inc.
Nevada	Reno	Sierra Machinery Co.
Oregon	Portland	Fruehauf Trailer Co.
Utah	Salt Lake City	Trailmobile, Inc.
Washington	Seattle	Fruehauf Trailer Co.
	Spokane	"
Wyoming	Casper	Studer Tractor & Equipment Co.

GAR WOOD INDUSTRIES, INC.

Wayne
Michigan

PRODUCTS: Buckeye Ditchers; Hi-Way Wideners; Finegraders and Spreaders.

REGIONAL DISTRICT MANAGER

California	Richmond	S.4th & Wright Sts.	A.M.Guthrie
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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	Boise	Southern Idaho Equipment Co.
	Idaho Falls	"
Montana	Billings	Seltz Machinery Co., Inc.
	Great Falls	"
Nevada	Elko	A-D Machinery Co.
	Reno	Reno Equipment Sales Co.
New Mexico	Roswell	Smith Machinery Co., Inc.
Oregon	Portland	Cramer Machinery Co.
Utah	Salt Lake City	Western Machinery Co.
Washington	Seattle	Air-Mac, Inc. of Washington
	Spokane	Construction Equipment Co.
Wyoming	Casper	Studer Tractor & Equipment Co.

PRODUCTS: Gar Wood Shovels; Cranes and Truck Cranes

REGIONAL DISTRICT MANAGER

California	Richmond	S.4th & Wright Sts.	A.M.Guthrie
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DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	El Monte	Warnock-Bancroft Equipment Co.
	Oakland	Buran Equipment Co.
Colorado	Denver	Western Machinery Co.
Montana	Billings	Seltz Machinery Co., Inc.
	Great Falls	"
New Mexico	Roswell	Smith Machinery Co., Inc.
Oregon	Portland	Cramer Machinery Co.
Washington	Seattle	Air-Mac, Inc. of Washington
Wyoming	Casper	Studer Tractor & Equipment Co.

GATES & SONS, INC.

80 South Galapago Street
Denver 23, Colorado

PRODUCTS: Rod Type Concrete Form Ties; 2 x 4 Type Concrete Form Ties; Strap Type Concrete Form Ties; Panel Forms; Top Ties.

FACTORY BRANCH

Washington	Spokane	E.3003 Courtland Ave.
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DISTRIBUTORS

Montana	Billings	Lohof Brothers Co.
New Mexico	Albuquerque	Albuquerque Gravel Products Co.
Oregon	Portland	Luyben Distributing Co.
Utah	Salt Lake City	Construction Specialties Co.
Washington	Seattle	Van Daal Distributors

GENERAL MACHINE & WELDING WORKS, INC.

1100 East 2nd Street
Pomona, California

PRODUCTS: Ball Bearing Swivels; High Lift Blocks; A-Frames; Hydraulic Towers; Drum Handlers; Structural Steel and Steel Fabrication.

REPRESENTATIVES

California	Newport Beach	1010 King Road	F.Perry Hopkins
	San Francisco	243 Vidal Drive	James E.Dyer
Colorado	Denver	510 Marion St.	Clair H.Dulin

DISTRIBUTORS

California	Cucamonga	Phil-Mac Co.
	Long Beach	King's Digging Service
	Los Angeles	John A.Batchelor Co.
	"	Calweld, Inc.
	"	Garlinghouse, Fremont & Co.
	"	Republic Supply Co.
	"	Santa Fe Equipment Co.
	Sacramento	Capital Welding & Machine Works
	San Diego	C.J.Hendry Co.
	San Francisco	Coast Equipment Co.
	"	Don D.Fleming Co., Inc.
	"	Industrial Supply Co.
	"	Robinson Equipment Co.
	"	Stokes & Schwartz
	San Gabriel	Valley Cities Supply Co.
	San Leandro	Republic Supply Co. & all branches
	San Pedro	C.J.Hendry Co.
Colorado	Denver	Union Supply Co.
Montana	Billings	Hall-Perry Machinery Co.
	Butte	"
	Great Falls	"
	Missoula	"
Nevada	Las Vegas	Lincoln Welding Works, Inc.
	Reno	Sierra Machinery Co.
Oregon	Portland	Marine & Industrial Supply Co.
	Salt Lake City	Holland Equipment Co.
Washington	Seattle	Marine & Industrial Supply Co.
Wyoming	Casper	Union Supply Co.

GENERAL ROAD MACHINES, INC.

1305 North Main Street
Niles, Ohio

PRODUCTS: Concrete Spreaders; Concrete Finishing Machines; Longitudinal Float Machines; Spray Curing Machines; Curb-Building Machines; Road and Airport Forms; Curb, Gutter and Sidewalk Forms.

DISTRIBUTORS

Arizona	Phoenix	Superior Equipment Co.
California	Oakland	Blakemore Equipment Co.
Idaho	Boise	Engineering Sales Service, Inc.
Washington	Seattle	Andrews Machinery of Wash., Inc.

BEN C. GERWICK, INC.

417 Market Street
San Francisco 5, California

PRODUCTS: Precast Prestressed Concrete Products for piling, bridges, buildings, and marine projects.

GILSON BROTHERS CO.

Fredonia
Wisconsin

PRODUCTS: Concrete Mixers; Mortar and Plaster Mixers; Limestone Pulverizers.

DISTRIBUTORS

California	Santa Ana	Blystone Equipment Co.
Colorado	Denver	Mine & Smelter Supply Co.
Montana	Billings	Rental Equipment Co.
Nevada	Las Vegas	Blystone Equipment Co. of Nevada
New Mexico	Albuquerque	N.C.Ribble Co.
Oregon	Medford	Cal-Ore Machinery Co.
Utah	Salt Lake City	C.H.Jones Equipment Co.

THE GLEDHILL ROAD MACHINERY CO.
 South State Road
 Gallon, Ohio

PRODUCTS: Sno-Plows; Spreaders; Graders; Grader Blades; Pavers; Road Maintainers; Earth Movers; Road-Side Sprayers; Portable Scales; Salt and Sand Spreaders; Sucker-up Leaf and Debris Vacuum Loaders.

DISTRIBUTORS

Arizona	Phoenix	O.S.Stapley Co.
California	San Francisco	Western Traction Co.
Colorado	Denver	Graham Road Equipment
	"	McKelvy Machinery Co.
Idaho	Boise	Woebber Auto Body & Mfg. Co.
	"	Engineering Sales Service
Montana	Billings	Western Equipment Co.
	Great Falls	Western Construction Equipment
	Missoula	"
Nevada	Reno	Westmount Tractor & Equipment Co.
New Mexico	Albuquerque	Jenkins & Albright
Oregon	Portland	N.C.Riddle Co.
Utah	Salt Lake City	Edward L.Kropp Co.
Washington	Seattle	Rasmussen Equipment Co.
	Spokane	Northern Commercial Co.
Wyoming	Cheyenne	Modern Machinery Co., Inc.
		Cheyenne Truck & Equipment Co.

GOOD ROADS MACHINERY CORP.
 Bridge Street
 Minerva, Ohio

PRODUCTS: Snow Plows; Aggregate (towed and truck mounted) and Blacktop Spreaders; Leaf Collectors; Leaf Loaders; Motorized Scavengers (a refuse collector); Underbody Scrapers.

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Los Angeles	Smith-Booth-Usher Co.
	San Francisco	A.L.Young Machinery Co.
Colorado	Denver	Power Equipment Co.
Montana	Billings	Seitz Machinery Co.
	Helena	Montana Power & Equipment Co.
Nevada	(Los Angeles)	Smith-Booth-Usher Co.
	(San Francisco)	A.L.Young Machinery Co.
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Oregon	Portland	Howard-Cooper Corp.
Utah	Salt Lake City	Lund Machinery Co.
Washington	Seattle	Howard-Cooper Corp.
	"	Totem 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 Pacs.

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 NW 16th	Jink Williams
Utah	Salt Lake City	631 S.2nd West	P.E.Moss
Washington	Seattle	2751 4th Ave.S.	Herbert Cleaver

WESTERN DISTRICT MANAGER

Utah	Salt Lake City	631 S.2nd West	P.E.Moss
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THE B.F. GOODRICH CO.
 5400 E. Olympic Blvd.
 Los Angeles 22, California

PRODUCTS: Tires and Tubes.

FACTORY BRANCHES

California	Los Angeles	3525 S.Garfield Ave.	W.S.Seliger
	San Francisco	1950 Army St.	O.K.Lynn
Colorado	Denver	2500 W.8th Ave.	D.J.Jakle
Utah	Salt Lake City	651 W.6th St.	J.W.Martin
Washington	Seattle	1 Hanford St.	C.E.Newman

FACTORY PERSONNEL

California	Los Angeles	5400 E.Olympic Blvd.
	L.T.Greiner	Zone Manager
	A.F.Noyes	Truck Tire Sales
	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"

THE GOODYEAR TIRE & RUBBER CO., INC.
 6701 South Central Avenue
 Los Angeles 1, California

PRODUCTS: Tires; Recapping Services (large off-the-road and earthmover tire recapping and large over-the-road truck tire recapping); Hose; Flat and Transmission Belting; V-Belts; Conveyor Belting and various molded and extruded items; Tank Lining; Rubber-covered Rolls.

FACTORY BRANCH

California	Los Angeles	6701 South Central
	R.W.Maney	Vice President
	R.V.Thomas	Plant Manager
	C.W.Thorp	Division Manager
	R.G.Abbott	Manager - Industrial Products Div.

DISTRICT MANAGERS

Arizona	Phoenix	2030 W.Fillmore St.	J.L.Kelly
California	Los Angeles	6666 E.Wash.Blvd.	C.A.Crafts
	"	So.Calif.District	E.C.Heideman
	"	Industrial Products	J.P.Gormly
	Sacramento	1724 10th at R St.	M.L.Pruitt
	San Francisco	1717 Harrison St.	H.L.Narwitz
	"	"	B.J.Keenan
Colorado	Denver	1030 W.3rd Ave.	M.C.McAlonan
	"	1207 Wazee St.	J.L.Reid
Oregon	Portland	1400 NW Raleigh	W.T.Clark
Utah	Salt Lake City	46 Fayette St.	D.A.Kingdon
Washington	Seattle	1112 Airport Way	M.A.May
	Spokane	S.164 Washington	M.T.Laughlin

MANAGERS - RETREAD PLANTS

California	Los Angeles	6701 S.Central	V.L.Moxon
Colorado	Denver	1207 Wazee St.	C.Cowles
Washington	Spokane	220 W.Main St.	J.Clavel

THE GORMAN-RUPP CO.
 305 Bowman Street
 Mansfield, Ohio

PRODUCTS: Pumps.

DISTRICT REPRESENTATIVES

California	Palo Alto	110 Walter Hays Dr.	Robt.L.Nicolai
Colorado	(Lincoln)	1701 Pepper Ave.	Robt.E.Weppler
New Mexico	(Houston)	1475 Suebarnett	George W.Erbe

DISTRIBUTORS

Arizona	Phoenix	Road Machinery Co.
California	Arcata	Loggers & Mill Supply Co.
	Los Angeles	Harron, Rickard & McCone of S.Cal.
	N.Sacramento	Industrial Tractor Sales
	Oakland	Bay Cities Equipment, Inc.
	Redding	Shasta Truck & Equipment Sales
	San Jose	Bay Cities Equipment, Inc.
	Sacramento	"
Colorado	Denver	Faris-Moritz Equipment Co.
Idaho	Boise	Starline Equipment Co.
	Pocatello	Flaherty Equipment Co.
Montana	Billings	Western Construction Eqp. Co.
	Great Falls	"
	Missoula	"
Nevada	Reno	Reno Equipment Sales Co.
	"	Tractor Equipment Co.
New Mexico	Albuquerque	The Harry Cornelius Co.
Oregon	Eugene	Western Equipment Co.
	Portland	Andersen Machinery Co.
	"	Andrews & Andrews Equipment
	"	Western Equipment Co.
Utah	Salt Lake City	The Lang Co., Inc.
Washington	Seattle	Northern Commercial Co.
	"	Pacific Hoist & Derrick Co.
	Spokane	Andrews Eqpt. 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; Asphalt Heaters, Circulating; Chip Spreaders; Heaters, Oil, for hot plants; Asphaltic Concrete Spreaders; Drag Brooms; Pneumatic and Sheepsfoot Rollers.

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	Los Angeles	Brown-Bevis Industrial Eqpt. Co.
Colorado	Denver	Joe Smith Machinery Co.
Idaho	Boise	Engineering Sales Service Co., Inc.
Montana	Helena	Steffeck Equipment Co.
Nevada	Reno	Allied Equipment Co.
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Oregon	Portland	Contractors Equipment Corp.
Washington	Seattle	Jack Sahlberg Equipment Co.
Wyoming	Cheyenne	Wortham Machinery Co.

C. I. T. CORPORATION

120 Montgomery Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

DALL DIVISION
 T. Warner & Swasey Co.
 51 Carnegie Avenue
 Cleveland 3, Ohio

PRODUCTS: Multi-Purpose Earthmoving and Construction Machine.

FACTORY PERSONNEL

California	Los Angeles	3340 Leonis Blvd.
	R.Bechtel	District Manager
	S.Adams	Field Engineer

DISTRIBUTORS

Arizona	Phoenix	State Tractor & Equipment Co.
California	Los Angeles	Brown-Bevis Industrial Ept. Co.
	San Francisco	Western Tractor Co.
Colorado	Denver	Liberty Trucks & Parts Co.
Idaho	Boise	Engineering Sales Service Co.
Oregon	Portland	Columbia Equipment Co.
Montana	Billings	Western Construction Ept. Co.
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Seattle	Columbia Equipment Co.
Wyoming	Cheyenne	Keremi Tractor & Equipment Co.

KAY CO., INC.
 6-11th Avenue N.E.
 Minneapolis 13, Minnesota

PRODUCTS: Portable Field Lubricating Equipment; Grease Rigs; Contractors' Lubricating Equipment; Paint Spray Equipment; Putty Pumps; Water Repellent Application Equipment; Equipment for applying highway joint sealers.

FACTORY BRANCH

California	San Francisco	141 11th St.	A.E.Perry
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DISTRICT MANAGERS

California	Los Angeles	6059 1/2 E.Olympic	W.W.Bixby
	San Francisco	141 11th St.	C.L.Masteller
Oregon	Portland	1915 NE Union Ave	Andrew Tapsak

REENVILLE STEEL CAR CO.
 Greenville
 Pennsylvania

PRODUCTS: Tractor Mounted Rock Ripper.

See your International Harvester Industrial Dealer.

GRIPHIST, INC.
 14 Bryant Street
 San Francisco 7, California

PRODUCTS: GRIPHIST, a portable light weight hoisting and pulling machine; uses 1/4" wire rope instead of chain, manually operated, features unlimited cable travel.

DISTRIBUTORS

Alaska	Anchorage	Bashaw Equipment Co.
Arizona	Phoenix	Arizona Welding Equipment Co.
	Tucson	Complete Industrial Supply
		AWECO Supply Co.
California	Alhambra	Complete Industrial Supply
	Berkeley	Frank Cox Equipment Co.
	El Monte	J.R.Feeney Co.
	Eureka	Wamock-Bancroft Equipment Co.
	Los Angeles	Kramer Auto Supply Co.
	"	John A.Batchelor Co.
	"	Cable Distributors
	"	Fornaciari Company
	"	Rental Yard Supply Co.
	Paramount	L.J.Price
	San Diego	Rent-It Service
	"	San Diego Spring & Brake Works
	San Francisco	H.M.Armstrong
	"	C.H.Bull Co.
	San Gabriel	Abernathy & Co.
	Stockton	Stockton Iron Works
Colorado	Denver	Johnson-Tudor
		Union Supply Co.
Idaho	Boise	Intermountain Equipment Co.
	Coeur D'Alene	Black Motor Supply Co.
	Wallace	Coeur d'Alene Hardware & Fdry. Co.
Utah	Salt Lake City	Cate Equipment Co.
	"	Holland Equipment Co.
Washington	Seattle	Clyde Equipment Co.
		Rice Sales Co.

Pre-selling of equipment buyers and users is the key to getting good distributors—Good distributors want popular lines. WC can make your line popular!

GUNDERSON-TAYLOR MACHINERY CO.
 1237 Shoshone Street
 Denver 4, Colorado

PRODUCTS: Triplex Tampers.

DISTRIBUTORS

Any authorized dealer or distributor of air equipment.

H & L TOOTH CO.
 1540 S. Greenwood Avenue
 Montebello, California

PRODUCTS: Teeth for excavating equipment.

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	Bakersfield	Hopper Machine Co.
	Fresno	Edward R.Bacon Co.
	Sacramento	" " " "
	San Francisco	" " " "
Colorado	Denver	Air Rentals, Inc.
Idaho	Boise	Starline Equipment Co.
Montana	Billings	Hall-Perry Machinery Co.
	Butte	" " " "
	Great Falls	" " " "
Nevada	Reno	Sierra Machinery Co.
		C.D.Roeder Equipment Co.
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Oregon	Portland	Joggers & Contractors Mch. Co.
Utah	Salt Lake City	Heiner Equipment Co.
Washington	Seattle	Totem Equipment Co.
	Spokane	Modern 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 ton.

DISTRIBUTORS

Arizona	Phoenix	Arizona Cedar Rapids Co.
California	Los Angeles	Larson Equipment Co.

HARCO MANUFACTURING CO.
 2041 S.W. 58th Avenue
 Portland 1, Oregon

PRODUCTS: Pre-Cleaners; Spark Arresters; Rain-Caps; Mufflers; Oil Batch Cleaners; Rain Traps.

SALES REPRESENTATIVES

California (Ariz.&Nev.)	Redwood City	4 Sequoia Way	Franklin B.Lyons
Idaho (NW States)	Boise	1303 N.Sixth	A.H.Kathman

DISTRIBUTORS

Arizona	Phoenix	Imperial Metallic Lubricants
		Waukesha Southwestern
California	Fresno	W.J.Joy
	Los Angeles	Tractor Equipment Distributors
	"	Tractor Sales Corp.
	Merced	Tractor Supply Co.
	Redding	Moty & Van Dyke
	Richmond	Pacific Tractor & Implement
	Sacramento	Industrial Parts Supply
	South Gate	Filter Supply & Service
Idaho	Boise	Intermountain Equipment Co.
Montana	Billings	Hines Motor Supply Co.
	Great Falls	" " " "
	Missoula	Missoula Mercantile Co.
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Klamath Falls	Moty & Van Dyke, Inc.
	Pendleton	Pendleton Auto Parts
	Portland	Columbia Tractor & Implement Co.
	"	Halton Tractor Co.
	"	Interstate Tractor & Equipment Co.
	"	Oil Filter Service Co.
	"	Western Farm Equipment Co.
	"	Willamette Sales Co.
Utah	Salt Lake City	Flinc, Inc.
	"	General Implement Distrs., Inc.
	"	Intermountain Ford Tractor Sales Co.
Washington	Seattle	Baldwin Filter Sales
	"	N.W.Motor Parts
	Spokane	Carburetor & Electric Co.
	Walla Walla	Motor Supply, Inc.

C. I. T. specializes in financing equipment for Distributors and Contractors

HARNISCHFEGER CORP.
4400 West National Avenue
Milwaukee 46, Wisconsin

PRODUCTS: Truck Cranes; Diesel Engines; Power Shovels; Soil Stabilizers; Elevating Sierra Loaders; Welding Equipment; Overhead Cranes; Hoists; Prefabricated Homes; Electrical Equipment.

PACIFIC DIVISION HEADQUARTERS & PLANT

California Los Angeles General Manager B. Pratte

FACTORY BRANCHES

Arizona	Phoenix	District Manager	J.H. Taylor
California	Los Angeles	"	W.G. Godfrey
	San Francisco	"	Wm. DeKuff
Colorado	Denver	"	E.J. Sullivan
Washington	Seattle	"	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)
California	Prescott	Arizona Mining Supply Corp. (WR)
	Alhambra	Frank Cox Equipment Co. (WR)
	Alturas	Moty & Van Dyke (WR)
	Bakersfield	Hopper Machine Works (H-WR)
	Berkeley	Leader Welding & Eqpt. Co. (WR)
	Compton	Industrial-Welding Supply Co. (WR)
	El Centro	Purdy & Holmquist (X)
	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 Supply Co. (WR)
"	"	H.I. Tullis (WR)
Los Angeles	"	Abasco Welding Supplies (H-WR)
"	"	P. George Pennington (WR)
"	"	Shaw Sales & Service Co. (WR-X)
"	"	H.C. Witherspoon Co. (WR)
Ontario	"	A & R Equipment Co. (WR)
Redding	"	Paul Droscher Sales (WR)
Sacramento	"	Capitol Machine Works (H)
Salinas	"	Farmers Mercantile Co. (X-WR)
"	"	Lacey Automotive Parts Co. (WR)
San Diego	"	Production Tools, Inc. (WR)
"	"	Southern Eqpt. & Supply Co. (X-WR)
San Francisco	"	Federal Pipe & Supply Co. (WR)
"	"	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 Weldor 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 Trucks & Parts Co. (X)
"	"	Lloyd's Railway Supplies (WR)
"	"	The Winter-Weiss Co. (WR)
"	"	Forney Manufacturing Co. (WR)
Idaho	Pueblito	Motor Accessory & Parts Co. (WR)
"	Boise	Starline Equipment Co. (X)
"	"	Western Equipment Co. (WR)
"	"	Erb Hardware Co. (WR)
Montana	Lewiston	Western Machinery Co. (H)
"	Pocatello	Seitz Machinery Co. (X)
"	Great Falls	Caird Engineering Works (WR)
"	Helena	Treasure State Equipment Co. (X-WR)
Nevada	Kalispell	Pioneer Equipment Co., Inc. (X)
New Mexico	Reno	Contractors Eqpt. & Supply Co. (WR)
"	Albuquerque	Leonard Motor Co. (X-WR)
Oregon	Eugene	American Steel & Supply Co. (H-WR)
"	Klamath Falls	Moty & Van Dyke (WR)
"	Portland	Loggers & Contractors Mch. Co. (X-WR)
"	"	Portland Machinery Co. (H)
Utah	Roseburg	Industrial Elec. Service Co. (H)
"	Hurricane	Scholzen Products Co. (WR)
"	Ogden	C & C Welding Supply Co. (WR)
"	Salt Lake City	Koepsel & Love (WR)
Washington	"	Western Machinery Co. (X-H)
"	Aberdeen	Industrial Elec. Service Co. (H-WR)
"	Bellingham	Ekdahl & Seppala, Inc. (WR)
"	Seattle	Acetogen Cutting Gas Co. (WR)
"	"	Air Mac, Inc. of Washington (H)
"	Spokane	Construction Equipment Co. (X)
"	Tacoma	Grange Cooperative Wholesale (WR)
"	"	Miraldi Welding Supplies, Inc. (WR)

More first place editorial awards have been won by WESTERN CONSTRUCTION than any construction magazine west of New York!

HAUCK MANUFACTURING CO.
124-136 Tenth Street
Brooklyn 15, New York

PRODUCTS: Oil and Gas Burning Tar and Asphalt Melting Kettles; Lead Melting Furnaces; Compound Melting Furnaces; Portable Burners and Torches; Fire Guns Asphalt Paving Tool Heaters; Asphalt Surface Heaters; Burners for Road Oil Distributors; Portable Hopper Car Thawing Tube Equipment; Steam Thawers.

FACTORY BRANCH MANAGERS

California	Los Angeles	254 S. Broadway	Alvin Cunningham
	San Francisco	383 Brannan St.	H.B. Cleveland

HAWKINS-HAWKINS CO., INC.
1255 Eastshore Highway
Berkeley 10, California

PRODUCTS: Highway Guide Posts; Steel Sign Posts; Traffic Signs; Reflectors; Barricades; Portable Signs and Standards; Red Danger Flags and Flagman Jackets

HAWKINS-HAWKINS CO., INC.
1255 Eastshore Highway
Berkeley 10, California

PRODUCTS: Highway Guide Posts; Steel Sign Posts; Traffic Signs; Reflectors; Barricades; Portable Signs and Standards; Red Danger Flags and Flagman Jackets and Vests; Delinators for detour; Special Traffic Guide Signs; Flashing Lights; etc.

FACTORY BRANCHES

California	Los Angeles	P.O. Box 41047	Jack Miller
Colorado	Denver	1018 Lawrence St.	L.S. Reed

DISTRIBUTORS

Arizona	Phoenix	Garland Steel Co.
California	San Francisco	Edward R. Bacon Co.
Colorado	Denver	L.S. Reed & Co.
Nevada	Reno	Pioneer Equipment Co.
"	"	Sierra Machinery Co.
Oregon	Portland	Traffic Safety Supply Co.

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.	Tord Carmel
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THE HEIL CO.
3000 West Montana
Milwaukee 1, Wisconsin

PRODUCTS: Truck Bodies; Hydraulic Hoists; Hydraulic Tail-gates; Refuse Collection Units.

REGIONAL MANAGERS

California	Los Angeles	2999 W. 6th St.	Len Anderson
Colorado	Denver	505 Colorado Bldg.	John Zimmerman
Washington	Seattle	708 5th Ave. So.	Claude Conrad

DISTRIBUTORS

Alaska	(Seattle)	The Carrington Co.
Arizona	Phoenix	Utility Trailer Sales Co.
California	Los Angeles	Transportation Equipment Co.
"	Sacramento	Heil Equipment of No. California
"	"	"
"	"	"
"	"	"
Montana	San Francisco	"
"	Billings	HCL Equipment Co.
"	Great Falls	"
"	Missoula	Graehl Motor Service
Oregon	Portland	Schetyk Equipment Corp.
Utah	Salt Lake City	The Lang Co.
Washington	Seattle	American Machine Co.

The WC Equipment Directory tells who manufactures equipment you might know only by its trade mark name. Trade names are listed in blue section.

C. I. T. CORPORATION

120 Montgomery Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

ELTZEL STEEL FORM & IRON CO.

Iron
Steel

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 Batching; Combination Batching; Universal Batching; Dual Aggregate Batching; Dustless Cement Batching; Dual Cement Batching.

DISTRICT MANAGER

California Redondo Beach P.O.Box 427 Ken Simpson

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	Los Angeles	Garlinghouse-Fremon & Co.
	San Francisco	Coast Equipment Co.
Colorado	Denver	Ray Corson Machinery Co.
Idaho	Boise	Columbia Equipment Co.
Montana	Butte	Hall-Perry Machinery Co.
	"	"
	"	"
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Nevada	(Los Angeles)	Garlinghouse-Fremon & Co.
	(San Francisco)	Coast Equipment Co.
	(Salt Lake)	The Lang Co.
Oregon	Portland	Columbia Equipment Co.
Utah	Salt Lake City	The Lang Co.
Washington	Seattle	Columbia Equipment Co.
Wyoming	Cheyenne	Keremi Tractor & Equipment Co.

HENDRIX MANUFACTURING CO., INC.

Jenkins Street - P.O.Box 31
Mansfield, Louisiana

PRODUCTS: Dragline Buckets.

Write us for name of your nearest dealer.

HENRY MANUFACTURING CO., INC.

1700 N. Clay Street
Topeka, Kansas

PRODUCTS: Backhoes and Tractor Shovels.

DISTRIBUTORS

California	South Gate	Hydraulic Tool & Equipment Co.
Colorado	Denver	Interstate Tractor Sales
Montana	Great Falls	Ferris-Killion Implement Co.
Oregon	Portland	Mitchell, Lewis & Staver
Utah	Salt Lake City	General Implement Distributors

HENSLEY EQUIPMENT CO., INC.

800 Peralta Avenue
San Leandro, California

PRODUCTS: Rippling Attachments for dozers and scrapers; Scarifier Points; Shanks; Overlay End Bits for motor patrols; Heavy Duty Rockbits for dozer blades; D-7 and D-8 Bottom Track Rollers; Cutting Edges.

DISTRIBUTORS

Alaska	Anchorage	Western Tractor & Equipment Co.
	Fairbanks	" " " " " "
Arizona	Casa Grande	Complete Auto & Home Supply
	Chandler	" " " " " "
	Coolidge	" " " " " "
	Douglas	" " " " " "
	Mesa	" " " " " "
	Nogales	" " " " " "
	Phoenix	" " " " " "
	Tucson	" " " " " "
California	Bakersfield	Crook Company
	Chico	Chico Auto Parts
	Colusa	Emerson-Braden Co.
	Eureka	McGaraghan Supply Co.
	Fresno	Contractors Equipment & Supply
	Marysville	Hust Bros.
	Oroville	Oroville Auto Parts
	Redding	Lowry Equipment Co.
	San Luis Obispo	Farmers Hardware & Eqpt. Co.
	Santa Rosa	Stevenson Equipment Co.
	Stockton	Stockton Iron Works
	Ukiah	Holz Company
	Willows	Westside Tractor & Equipment Co.
Colorado	Denver	Joe Smith Machinery
	Grand Junction	S & M Supply Co.
Idaho	Boise	Engineering Sales & Service
Montana	Billings	Westate Machinery Co.
Nevada	Elko	Elko Blacksmith Shop
	Reno	Pioneer Equipment Co.
	Albuquerque	Lively Equipment Co.
New Mexico	Medford	Western Equipment Co.
Oregon	Eugene	Cal-Ore Machinery Co.
	Portland	Western Equipment Co.
Utah	Salt Lake City	Holland Equipment Co.
Washington	Seattle	Pacific Hoist & Derrick Co.
	Spokane	Western Machinery Co.
Wyoming	Cheyenne	Keremi Tractor & Equipment Co.

HERCULES MOTORS CORP.

101 Eleventh Street S.E.
Canton, Ohio

PRODUCTS: Internal Combustion Engine and Power Units.

FACTORY BRANCH

California Los Angeles 2336 S.Garfield Ave. W.D.Brumbach

DISTRIBUTORS

Arizona	Phoenix	Schuler & James, Inc.
California	Long Beach	Engine & Equipment Co.
	San Diego	Westerlund & Lange
	San Francisco	Bay Engine & Parts Co.
Colorado	Denver	Liberty Truck & Parts Co.
Idaho	Boise	The Sawtooth Co.
Montana	Billings	Western Construction Equipment Co.
New Mexico	Albuquerque	Pound Brothers
Oregon	Portland	Loggers & Contractors Mchy. Co.
Utah	Salt Lake City	Diamond T. Utah, Inc.
Washington	Seattle	Star Machinery Co.
	Spokane	" " "

HERCULES POWDER CO.

120 Montgomery Street
San Francisco 4, California

PRODUCTS: High Explosives and Blasting Supplies.

FACTORY BRANCHES

California	Los Angeles	Manager	W.F.McCandlish
	San Francisco	"	F.Geo.Trescher
Utah	Salt Lake City	"	L.W.Early

DISTRIBUTORS

Dealers are located in major cities and towns throughout the West.

HERCULES STEEL PRODUCTS CO.

Sherman Street
Galion, Ohio

PRODUCTS: Hydraulic Hoists; Dump Bodies; Dump Trailers; Telescopic Hoists; Lift Gates; Sand and Cinder Spreaders; Agricultural Spreaders; Cement Spreaders.

DISTRIBUTORS

Arizona	Phoenix	Southwestern
California	Los Angeles	Metalco Body Works, Inc.
	Oakland	Earl Sherman Co.
Colorado	Alamosa	McKah Equipment Co., Inc.
Idaho	Blackfoot	Custom Body Works
Oregon	Portland	Newell Truck Equipment Co.
Utah	Salt Lake City	Wagstaff Co.
Washington	Seattle	Evergreen Trailer Co.

HERMAN NELSON DIVISION

American Air Filter Co., Inc.
215 Central Avenue
Louisville 8, Kentucky

PRODUCTS: "Herman Nelson" Portable Space Heaters.

DISTRICT REPRESENTATIVE

Washington Bellevue 8733 4th Pl., NE J.A.Dougan

DISTRIBUTORS

Alaska	(Seattle)	Northern Commercial Co.
California	Fresno	Edward R.Bacon Co.
	Oakland	" " " " " "
	Sacramento	" " " " " "
	San Francisco	" " " " " "
Colorado	Denver	Western Machinery Co.
	Grand Junction	" " " " " "
Idaho	Boise	Arnold Machinery Co., Inc.
	Idaho Falls	" " " " " "
Montana	Butte	Pioneer Equipment & Supply Co.
Oregon	Eugene	Loggers & Contractors Mchy. Co.
	Portland	" " " " " "
Utah	Salt Lake City	Arnold Machinery Co., Inc.
Washington	Seattle	A.H.Cox & Co.
	Spokane	Western Machinery Co.
	Tacoma	A.H.Cox & Co.
Wyoming	Casper	Studer Tractor & Equipment Co.

There are eleven natural marketing areas in the West — Get good distributors in all eleven areas, work with them—then make the distributor's selling job easier, more productive, with advertising in WC!

HETHERINGTON & BERNER, INC.
 701 Kentucky Avenue
 Indianapolis 7, Indiana

PRODUCTS: Bituminous Mixing Plants; Dredging Equipment; Moto Pavers; Moto Patchers; Asphalt Paving Equipment; Asphalt Plants.

DISTRIBUTORS

Arizona	Phoenix	O.S. Stapley Co.
Colorado	Denver	Liberty Parts & Trucks Co.
Idaho	(Salt Lake)	Rocky Mountain Machinery Co.
Montana	Helena	Montana Power & Equipment Co.
Oregon	Portland	Contractors Equipment Corp.
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	(Portland)	Contractors Equipment Corp.
Wyoming	Casper	Moss Equipment & Supply Co.

HEWITT-ROBINS, INC.
 666 Glenbrook Road
 Stamford, Connecticut

PRODUCTS: Conveyor Belting and Machinery; Vibrating Screens and Conveyors; Power Transmission Equipment; Hose of all types; Industrial Rubber Products; Engineering of Materials Handling Systems; Urethane Foam; Screen Cloth; Flooring Products.

REGIONAL MANAGER

California	Los Angeles	2604 S. Malt Ave.	G.V. Migula
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DISTRICT MANAGERS

California	Los Angeles	2604 S. Malt Ave.	M.D. Austin
Utah	Salt Lake City	545 W. 8th South St.	J.E. Van Stone

HIGHWAY EQUIPMENT CO., INC.
 616 D Avenue Northwest
 Cedar Rapids, Iowa

PRODUCTS: Sand, Salt and Cinder Spreaders for Seal Coat, Ice Control and Dust Control; Tailgate Spinner Type, Model DD, Model J Tailgate Traction Type; Truck Mounted Drag Chain and Spinner Type, Models E & W; Aggregate Spreader, Traction Driven, Force Feed, Towed Type, Model R; Model AS Towed Type Bituminous, Concrete and Aggregate Spreader; Bulk Cement Bodies, self-unloading.

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	Los Angeles	Brown-Bevis Industrial Eqt. Co.
	San Francisco	Standard Machinery Co.
Colorado	Denver	H.W. Moore Equipment Co.
Idaho	Boise	Feenaughty Machinery Co.
	(Salt Lake)	Rocky Mountain Machinery Co.
Montana	Billings	HCL Equipment Co.
	Butte	Pioneer Equipment & Supply Co.
Nevada	Reno	Sierra Machinery Co.
Oregon	Portland	Feenaughty Machinery Co.
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Spokane	Feenaughty Machinery Co.
Wyoming	Cheyenne	Wortham Machinery Co.

HIGHWAY TRAILER CO.
 405 East Fulton Street
 Edgerton, Wisconsin

PRODUCTS: Utility Equipment such as: Earth Boring Machines; Winches; Power Takeoffs; Line Construction and Maintenance Bodies; Utility Trailers and associated equipment.

DISTRIBUTORS

Arizona	Phoenix	W.H. Eddy Electric Products, Inc.
California	Los Angeles	Calavar Corp.
	San Francisco	The F.W.D. Pacific Co.
Colorado	Denver	Truck Equipment Co.
Washington	Seattle	Robblee Utilities Equipment

HOBBART BROTHERS
 Hobart Square
 Troy, Ohio

PRODUCTS: Electric or Gasoline Driven Arc Welders; Power Units; Combination Units; Welding Accessories and Electrodes.

DISTRIBUTORS

Arizona	Phoenix	Dye Oxygen Co.
	"	Phoenix Welding Supply Co.
California	Tucson	Dye Oxygen Co.
	Anaheim	V.B. Anderson Co.
	Arcata	Loggers & Mill Supply Co.
	Bakersfield	Bakersfield Welding Supply

Continued in next column

HOBBART BROTHERS (CONTINUED)

	Emeryville	Balaam Brothers
	Fresno	Sigler's
	King City	Shield Tractor Co.
	Los Angeles	Anderson Equipment Co.
	"	Hobart Welders Sales & Service
	Oxnard	Barnes-Duff Supply Co.
	Pleasant Hill	Myron A. King
	Sacramento	California Oxygen Co.
	San Diego	Galley Equipment Co.
	"	Pacific Acetylene Co.
	"	San Diego Welders Supply Co.
	San Francisco	DeBerry-Mormak Co.
	"	J.R. Zakis
	San Jose	Pacific Hdwe. & Steel Co., Inc.
	San Luis Obispo	Farmers Hdwe. & Equipment Co.
	Stockton	California Welding Supply Co.
	Santa Ana	V.B. Anderson Co.
	Santa Maria	Coast Welding Supply
	Ukiah	Holz Company
	Whittier	Anderson Equipment Co.
	Yuba City	California Oxygen Co.
Colorado	Denver	Acetylen Service Co.
	"	General Welding Supply Co.
	Grand Junction	Williams Electric Co.
	Pueblo	J.F. Dammann Supply Co.
Idaho	Boise	Intermountain Equipment Co.
Montana	Great Falls	General Distributing Co.
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	R.L. Harrison Co., Inc.
	"	Valley Welders Supply Co.
Oregon	Eugene	Lane Welding Supply, Inc.
	Klamath Falls	Sixth St. Oxygen Sales
	Portland	Welders Supply Co.
	Winston	Power Tool Sales
	Salt Lake City	Whitmore Oxygen Co.
Utah	Everett	Industrial Equipment Co.
Washington	Seattle	Rock & Wright
	"	Yukon Equipment, Inc.
	Spokane	Intermountain Equipment Co.
	"	Spokane Welder Supply Co.
Wyoming	Casper	U.S. Welding Supply, Inc.

HOBBBS MANUFACTURING CO.
 609 North Main
 Fort Worth 1, Texas

PRODUCTS: Low Bed Trailers; Self Loading Float Trailers; Hydraulic Dump Bodies; Cable Dump Trailers; Winch and Gin Pole Truck Bodies; Van (equipment storage) Trailers.

DISTRIBUTORS

Arizona	Glendale	Sands Trailer Co.
	Phoenix	Utility Trailer Sales Co.
California	Fresno	" " " "
	Los Angeles	" " " "
	N. Sacramento	" " " "
	San Diego	" " " "
	San Francisco	" " " "
Colorado	Denver	Elder Trailer & Body Co.
	Grand Junction	W.R. Hall Sales & Service
Montana	Billings	Billings White Truck Co.
Nevada	Reno	Reno Equipment Sales Co.
New Mexico	Albuquerque	D H Sales Co.
Oregon	Portland	Utility Trailer & Eqt. Co., Inc.
Utah	Salt Lake City	The Lang Co.
	"	Utility Trailer Sales of Utah, Inc.
Washington	Seattle	Transport Trailer & Equipment Co.
	Spokane	Alloy Manufacturing Co.
Wyoming	Casper	Century White Truck Co.

HOMELITE DIVISION
 Tectron American, Inc.
 Riverdale Avenue
 Port Chester, New York

PRODUCTS: Gasoline-Engine-Driven Chain Saws; Generators; Self-Priming Pumps; Blowers; Diaphragm Pumps; Floodlights; Vibrators; Rock Drills.

FACTORY BRANCHES

California	Fresno	2308 Ventura St.	LaMar Cheney
	Los Angeles	624 S. Anderson St.	Ralph Evans
	Sacramento	2234 Auburn Blvd.	Richard Dodelin
	S. San Francisco	727 Airport Blvd.	Robert Glidden
Oregon	Portland	3436 SE Milwaukie	Guy Sabin
Utah	Salt Lake City	7440 Highway 91	Lynn Peterson
Washington	Seattle	1911 22nd Ave.	Doug Sherwood
	Spokane	E. 3927 Trent Ave.	John Cram

DISTRIBUTOR

Colorado	Denver	Lloyd's Equipment Co.
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C. I. T. CORPORATION

120 Montgomery Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

THE FRANK G. HOUGH CO.
190 Sunnyside Avenue
Libertyville, Illinois

PRODUCTS: "PAYLOADER" Tractors and Tractor-Shovels.

DISTRICT REPRESENTATIVES

California	Hillsborough	1485 Lake View Dr.	Don Ross
	Inglelake	10509 Third Ave.	Merle Fite
Colorado	Aurora	1000 Kenton St.	Dave Hunsaker
Oregon	Portland	2515 SE 51st	Frank M. Learn

DISTRIBUTORS

Alaska	Fairbanks	The Carrington Co.
Arizona	Phoenix	State Tractor & Equipment Co.
	Tucson	F. Ronstadt Hardware Co.
California	Bakersfield	Brown-Bevis Industrial Eqt. Co.
	Eureka	Howard-Cooper Corp. of California
	Five Points	Allied Equipment Co.
	Fresno	" " " "
	Los Angeles	Brown-Bevis Industrial Eqt. Co.
	Madera	Allied Equipment Co.
	Oakland	Bay Cities Equipment, Inc.
	Redding	Howard-Cooper Corp. of California
	Reedley	Allied Equipment Co.
	Riverside	Braman-Dickerson, Inc.
	Sacramento	Sacramento Valley Tractor Co.
	San Diego	Southern Equipment & Supply Co.
	San Jose	Bay Cities Equipment Co., Inc.
	Santa Maria	Hanson Equipment Co.
	Stockton	Delta Tractor Co.
	Stratford	Orton's Equipment Co., Inc.
Colorado	Denver	H.W. Moore Equipment Co.
	Grand Junction	H.W. Moore Equipment Co.
Montana	Billings	Industrial Equipment Co.
	Great Falls	Power Equipment Co.
	Kalispell	Treasure State Equipment Co.
	Missoula	" " " "
Nevada	Las Vegas	Clark County Wholesale Merc. Co.
	Reno	Tractor Equipment Co.
New Mexico	Albuquerque	J.D. Coggins
Oregon	Albany	Howard-Cooper Corp.
	Central Point	" " " "
	Coquille	" " " "
	Eugene	" " " "
	Pendleton	Pendleton Grain Growers
	Portland	Howard-Cooper Corp.
	Roseburg	" " " "
Utah	Salt Lake City	The Lang Co., Inc.
Washington	Seattle	The Carrington Co.
	"	Howard-Cooper Corp.
	"	Modern Machinery Co.
Wyoming	Spokane	Kerem Tractor & Equipment Co.
	Casper	" " " "

HOWRY BERG STEEL & IRON WORKS, INC.
1366 West Oxford Avenue
Englewood, Colorado

PRODUCTS: Batchers; Bins; Concrete Batch Plants; Concrete Carts; Concrete Placing Equipment; Conveyors; Crushing Plants; Elevators; Bucket; Front End Loaders; Gates; Gravel Plants; Hoppers; Levellers; Loadout Bins; Rock & Gravel Equipment; Storage Bins; Tanks; Washing Plants; Weighing Batchers.

HUBER-WARCO CO.
202 N. Greenwood Street
Marion, Ohio

PRODUCTS: Road Rollers; Motor Graders; Maintainers.

DISTRICT REPRESENTATIVE

California	Pleasant Hill	436 Minton Court	Jack McCaffrey
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DISTRIBUTORS

Alaska	(Seattle)	Western Tractor & Equipment 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	Graham Road Equipment Co.
Idaho	Boise	The Sawtooth Company
Montana	Billings	Caird Engineering Works
	Helena	" " " "
Nevada	Reno	General Equipment Co.
New Mexico	Albuquerque	Construction Machinery Co.
Oregon	Portland	Nelson Equipment Co.
Utah	Salt Lake City	Foulger Equipment Co., Inc.
Washington	Seattle	Caldwell Machinery Co., Inc.

HUGHES-KEENAN CORP.
Delaware
Ohio

PRODUCTS: Cranes.

DISTRIBUTORS

Arizona	(Los Angeles)	James P. Kinney Co.
California	Los Angeles	" " " "
	"	Casey-Metcalf Machinery Co.
Colorado	Denver	Joe Coursey Equipment Co., Inc.
Montana	Billings	Industrial Equipment Co.
Nevada	(Los Angeles)	James P. Kinney Co.
	(Salt Lake)	Foulger Equipment Co.
New Mexico	(Los Angeles)	James P. Kinney Co.
Utah	Salt Lake City	Foulger Equipment Co.
Wyoming	(Billings)	Industrial Equipment Co.
	(Denver)	Joe Coursey Equipment Co.
	(Salt Lake)	Foulger Equipment Co.

HYDRAULIC TOOL & EQUIPMENT CO., INC.
10825 Sessler Street
South Gate, California

PRODUCTS: Dozers; Scrapers; Scarifier Bars; Ditchers; Hydraulic Tractor Lifts.

DISTRIBUTORS

California	Los Angeles	Tractor Equipment Distributors, Inc.
	Oakland	H.E. Linney Co.
	Richmond	Pacific Tractor Co.
Colorado	Denver	Universal Tractor Co.
	"	Western Machinery Co.
Idaho	(Salt Lake)	Intermountain Ford Tractor Sales Co.
	"	Western Machinery Co.
Oregon	Portland	Independent Distributors
Utah	Salt Lake City	Intermountain Ford Tractor Sales Co.
	"	Western Machinery Co.
Washington	(Portland)	Independent Distributors
Wyoming	(Denver)	Universal Tractor Co.

HYSTER COMPANY
2951 N.E. Clackamas Street
Portland 8, Oregon

PRODUCTS: Winches; Logging Arches; Excavator-Cranes; Compaction Equipment; Industrial Lift Trucks; Straddle Trucks; Mobile Cranes; Horizontal Transport Trucks.

WESTERN DIVISION MANAGER

Oregon	Portland	2951 NE Clackamas	R.M. Ronald
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DEALERS - INDUSTRIAL TRUCK

Arizona	Phoenix	Equipment Sales Co.
	Branch:	Albuquerque, N.Mex.
California	Los Angeles	Hyster Company
	Branch:	San Diego
	San Francisco	Hyster Company
	Branch:	Eureka
Colorado	Denver	King & East Machinery Corp.
Oregon	Portland	Hyster Sales Co.
Utah	Salt Lake City	Arnold Machinery Co., Inc.
	Branch:	Idaho Falls, Ida.
Washington	Seattle	Hyster Company
	Branch:	Spokane
Alaska	Seattle	Northern Commercial Co.

TRACTOR EQUIPMENT

Arizona	Phoenix	Arizona Machinery Co.
	Branches:	Casa Grande, Coolidge, Flagstaff, Mesa, Tucson, Buckeye
		Braden Machinery Co.
	Yuma	Wellton
California	Blythe	Honnen Machinery Co.
	Chico	Sierra Tractor & Equipment Co.
	Branches:	Gridley, Red Bluff, Redding
	Colusa	I.G. Zumwalt Co.
	Branch:	Willows
	El Centro	Faure Tractor & Equipment Co.
	Branch:	Brawley
	Eureka	Brizard-Matthews Machinery Co.
	Branches:	Crescent City, Arcata
	Fresno	Budd & Quinn, Inc.
	Branches:	Firebaugh, Madera, Reedley
	Hanford	Davies Machinery Co.
	Branches:	Bakersfield, Wasco, Corcoran
	Los Angeles	Shepherd Machinery Co.
	Branches:	Lancaster, Santa Ana
	Marysville	Marysville Tractor & Equipment Co.
	Branches:	Robbins, Roseville
	Modesto	Valley Tractor & Equipment Co.
	Branches:	Merced, Los Banos

Continued on next page

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

HYSTER COMPANY (CONTINUED)

Napa	Berglund Tractor & Equipment Co.
Branches:	Santa Rosa, Willits
Oxnard	Wallace Machinery Co.
Riverside	Johnson Tractor Co.
Branches:	Coachella, Ontario
Sacramento	Weaver Tractor Co.
Branches:	Woodland, Dixon, Walnut Grove
Salinas	Pringle Tractor Co.
Branches:	King City, Watsonville
San Diego	San Diego Tractor & Equipment Co.
Branch:	Escondido
San Jose	Ditz Bros.
Branch:	Hollister
San Leandro	Peterson Tractor & Equipment Co.
Branches:	Brentwood, San Francisco
Santa Maria	Joseph G. Moore Co.
Branches:	Goleta, Lompoc, Paso Robles
Stockton	Holt Bros.
Branches:	Lodi, Tracy
Tulelake	Crater Machinery Co.
Visalia	Treanor Equipment Co.
Branches:	Delano, Porterville, Tulare
Idaho	Boise Western Equipment Co.
Branch:	Twin Falls
Lewiston	Nez Perce Tractor & Equipment Co.
Missoula	Westmont Tractor Co.
Branch:	Kalispell
Nevada	Las Vegas James Cashman Co.
Reno	Sanford Tractor & Equipment Co.
Branch:	Elko
Oregon	Eugene Pape Bros., Inc.
Branches:	Roseburg, Coquille
Klamath Falls	Crater Lake Machinery Co.
Branches:	Medford, Redmond
LaGrande	Inland Machinery Co.
Branches:	Enterprise, John Day
Ontario	Western Equipment Co.
Pendleton	Empire Machinery Co.
Branches:	Arlington, Athena, Heppner, The Dalles
Portland	Halton Tractor Co.
Branches:	Astoria, Salem
Utah	Salt Lake City Wheeler-Kershaw Co.
Washington	Longview Halton Tractor Co.
Branches:	Seattle Collins Machinery Co.
Spokane	Mt. Vernon, Port Angeles
Tacoma	Northern Commercial Co.
Walla Walla	Byrne Machinery Co.
Branch:	Murphy-Campbell Co.
Wenatchee	Stone Machinery Co.
Branches:	Dayton
Yakima	Columbia Tractor Co. of Wenatchee
Branches:	Okanogan, Ephrata
	Webb Tractor & Equipment Co.
	Connell, Ellensburg, Toppenish

HY-WAY MACHINES, INC.
Box 2494
Youngstown 9, Ohio

PRODUCTS: Hy-Way Hot Oil Heater; Hy-Way HeaTank; Bunker Booster; Hy-Way Lute.

REPRESENTATIVE

California Palo Alto W.F. Scheetz

IDAHO SPROCKET & MACHINE WORKS, INC.
2801 Warm Springs Avenue
Boise, Idaho

PRODUCTS: Schrock Motorized Head Pulleys; Conveyors; Feeders; Portable and Stationary Unitized Screening and Crushing Plants; Custom Built Materials Handling Equipment.

DISTRIBUTORS

Idaho	Pocatello	Pocatello Chain & Sprocket, Inc.
Montana	Missoula	Westmont Tractor & Equipment Co.
Oregon	Portland	Nelson Equipment Co.
Utah	Salt Lake City	Kimball Equipment Co.
Washington	Seattle	Sahlberg Equipment, 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; Engines, 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. (CONTINUED)

WESTERN BRANCH OFFICES

California	Los Angeles	1460 E. 4th St.	W.J. Heinz
	San Francisco	350 Brannan St.	W.C. Collyer
Colorado	Denver	1641 Blake St.	A.A. Holland
Idaho	(Salt Lake)	144 SW Temple	R.W. Lawson
Montana	Butte	845 S. Montana	R.L. Olund
Oregon	Portland	Broadway Bldg.	J.A. Anderson
Texas	El Paso	2100 Wyoming St.	M.W. Terrill
Utah	Salt Lake City	144 SW Temple	R.W. Lawson
Washington	Seattle	526 1st Ave.S.	J.A. Anderson

DISTRIBUTORS

Arizona	Kingman	Tarr, McComb & Ware Comm. Co.
	Phoenix	State Tractor & Equipment Co.
	Prescott	Arizona Mining & Supply Co.
California	Arcata	Loggers & Mill Supply Co.
	Fresno	Moore Equipment Co.
	Grass Valley	Alpha Hardware Store
	N. Sacramento	Moore Equipment Co.
	Oakland	Bay Cities Equipment, Inc.
	Redding	Moore Equipment Co.
	San Diego	Southern Equipment & Supply Co.
	San Luis Obispo	A.E. Tomasini
	Santa Ana	Blystone Equipment Co.
	Stockton	Moore Equipment Co.
Colorado	Denver	Colorado Builders Supply Co.
Idaho	Boise	Intermountain Equipment Co.
	Wallace	Coeur d'Alene Hardware Co.
Montana	Butte	Montana Hardware Co.
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Oregon	Portland	Loggers & Contractors Mch. Co.
Utah	Salt Lake City	Cate Equipment Co.
Washington	Seattle	The Carrington Co.
	"	Pacific Hoist & Derrick Co.
	Spokane	Intermountain Equipment Co.
Wyoming	Casper	Wyoming Automotive Co.

INSLEY MANUFACTURING CORP.
P.O. Box 167 - 801 N. Olney Street
Indianapolis 6, Indiana

PRODUCTS: Power Shovels; Hoes; Cranes; Clamshell Cranes and Draglines; Rubber and Crawler Mounted; Gasoline, Diesel and Electric Power; Concrete Buckets, Carts, Hoppers and other Concrete Handling Equipment; Rubber Mounted Crane Carriers.

SUBSIDIARY

California Los Angeles The Maxi Corp. J. Ray Elliott

FACTORY SALES REPRESENTATIVE

California Los Angeles 3278 Wilshire Lee R. Smith

DISTRIBUTORS

Alaska	Anchorage	Airport Machinery Co., Inc.
Arizona	Phoenix	Shriver Machinery Co.
California	Redding	Sullivan & Crowe Equipment Co.
	Sacramento	Western Traction Co.
	San Francisco	"
	Stockton	Delta Tractor Co.
Montana	Helena	Caird Engineering Works
Nevada	Reno	R.M. Jenkins
New Mexico	Albuquerque	M & F Equipment Co.
	(El Paso)	Equipment Supply Co.
Oregon	Eugene	Coast Cable Co.
	Portland	Wood Tractor Co.
Utah	Salt Lake City	Lund Machinery Co.
Washington	Seattle	Washington Machinery Co.

INTERNATIONAL HARVESTER CO.
Construction Equipment Division
180 North Michigan Avenue
Chicago 1, Illinois

PRODUCTS: Crawler Tractors; Wheel Tractors; Motor Trucks; Power Units; Diesel and Gasoline Engines; Bulldozer Blades; Bulldozers; Scrapers; Pyscrapers; Payhaulers.

DISTRIBUTORS

Alaska	Anchorage	The Carrington Co.
	Fairbanks	"
Arizona	Phoenix	State Tractor & Equipment Co.
	Tucson	F. Ronstadt Hardware Co.
California	Yuma	Yuma Equipment Co.
	Bakersfield	Kern County Equipment Co., Inc.
	El Centro	Purdy-Holmquist Co.
	Eureka	Howard-Cooper Corp.
	Five Points	Allied Equipment Co.
	Fresno	"

Continued on next page

C. I. T. CORPORATION

120 Montgomery Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

INTERNATIONAL HARVESTER CO. (CONTINUED)

	Los Angeles	Brown-Bevis Industrial Equipment Co.
	Madera	Allied Equipment Co.
	Oakland	Bay Cities Equipment, Inc.
	Oxnard	L.G. Mulhardt Equipment Co.
	Redding	Howard-Cooper Corp.
	Redley	Allied Equipment Co.
	Riverside	Braman-Dickerson Co., Inc.
	Sacramento	Sacramento Valley Tractor Co.
	Salinas	Farmers Mercantile Co.
	San Diego	Southern Equipment & Supply Co.
	San Jose	Bay Cities Equipment, Inc.
	Santa Maria	Hanson Equipment Co.
	Santa Rosa	Stevenson Equipment Co.
	Stockton	Delta Tractor Co.
	Stratford	Orton's Equipment Co.
	Tranquility	Allied Equipment Co.
	Watsonville	Farmers Mercantile Co.
	Woodland	Delta Tractor Co.
Colorado	Denver	H.W. Moore Equipment Co.
	Durango	" " " " " "
	Grand Junction	" " " " " "
Idaho	Boise	Intermountain Equipment Co.
	Pocatello	" " " " " "
Montana	Billings	Industrial Equipment Co.
	Great Falls	Power Equipment Co.
	Kalispell	Treasure State Equipment Co.
	Missoula	" " " " " "
Nevada	Las Vegas	Clark County Wholesale Merc. Co.
	Reno	Tractor Equipment Co.
Oregon	Albany	Howard-Cooper Corp.
	Central Point	" " " " " "
	Coquille	" " " " " "
	Eugene	" " " " " "
	Pendleton	Pendleton Grain Growers, Inc.
	Portland	Howard-Cooper Corp.
	Roseburg	" " " " " "
Utah	Salt Lake City	The Lang Co.
Washington	Seattle	The Carrington Co.
		Howard-Cooper Corp.
		Modern Machinery Co., Inc.
Wyoming	Spokane	Keremi Tractor & Equipment Co.
	Casper	" " " " " "
	Cheyenne	" " " " " "

THE INTERNATIONAL VIBRATION CO.
16702 Waterloo Road
Cleveland 10, Ohio

PRODUCTS: The Vibro-Tamper — a vibratory compaction machine for single course compaction of base and sub-base materials.

DISTRIBUTORS

Alaska	Anchorage	Bashaw Equipment Co.
California	Oakland	C.H. Grant Co.
Idaho	Pocatello	Flaherty Manufacturing Co.
Washington	Seattle	Conrad Creim Co.

IOWA MANUFACTURING CO.
916 16th Street N.E.
Cedar Rapids, Iowa

PRODUCTS: Rock, Gravel and Asphalt Plants; Soil Compaction Units; Coal Machinery; Washing Plants; Conveyors; Motorized Head Pulleys; Screens; Bins; Crushers; Hammermills; Impact Breakers; Feeders and Stationary Rock and Gravel Plants.

DISTRICT REPRESENTATIVES

Arizona	Scottsdale	2612 N. 70th Pl.	Chas. H. Kimball
California	San Francisco	100 Font Blvd.	O. E. Whitney
Montana	Billings	2722 Broadwater	Carl Anderson

DISTRIBUTORS

Arizona	Phoenix	Arizona Cedar Rapids Co.
California	Los Angeles	Brown-Bevis Industrial Eqpt. Co.
	Oakland	Bay Cities Equipment Co.
Colorado	Denver	H.W. Moore Equipment Co.
Idaho	Boise	Intermountain Equipment Co.
	Pocatello	" " " " " "
Montana	Billings	Seitz Machinery Co.
	Great Falls	" " " " " "
	Kalispell	Mountain Tractor Co.
	Missoula	" " " " " "
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	R. L. Harrison Co.
Oregon	Portland	Balzer Machinery Co.
Utah	Salt Lake City	Kimball Equipment Co.
Washington	Ephrata	Intermountain Equipment Co.
	Seattle	Sahlberg Equipment, Inc.
	Spokane	Intermountain Equipment Co.
Wyoming	Cheyenne	Wortham Machinery Co.

IRVINGTON FORM & TANK CORP.
20 Vesey Street
New York 7, New York

PRODUCTS: Steel Wall Forms (Atlas Speed Forms); Combination Plywood and Steel Wall Forms (Atlas "Compo" Forms); Steel Forms for precast and prestressed concrete structural units; all types of special steel forms.

JACKSON VIBRATORS, INC.
Jackson Road
Ludington, Michigan

PRODUCTS: Tractor-mounted Vibratory Soil Compactors (multiple type for paving and large areas); Manually Operated Soil Compactors; Vibrators (all types) for concrete, paving, moving materials; Portable Gas-Electric Power Plants.

DISTRIBUTORS

Alaska	(Seattle)	A.H. Cox & Co.
Arizona	Phoenix	Western Machinery Co.
California	Los Angeles	Smith-Booth-Usher Co.
	San Francisco	Edward R. Bacon Co.
Colorado	Denver	Western Machinery Co.
Idaho	Idaho Falls	" " " " " "
Montana	Billings	Hall-Perry Machinery Co.
	Butte	" " " " " "
	Great Falls	" " " " " "
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Portland	Loggers & Contractors Mch. Co.
Utah	Salt Lake City	Western Machinery Co.
Washington	Seattle	A.H. Cox & Co.
	Spokane	Western Machinery Co.

THE JAEGER MACHINERY CO.
550 West Spring Street
Columbus 16, Ohio

PRODUCTS: Pumps; Aggregate Spreaders; Concrete Mixers; Truck Mixers; Plaster and Mortar Mixers; Concrete Spreaders and Finishers; Air Compressors; Towers and Hoists; Front End Loaders.

FACTORY REPRESENTATIVE

California	Sherman Oaks	5107 Mammoth Ave. Herbert F. Twaits
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DISTRIBUTORS

Alaska	Anchorage	Yukon Equipment Co.
	Fairbanks	" " " " " "
	Ketchikan	" " " " " "
Arizona	Phoenix	Shriver Machinery Co.
California	Los Angeles	Smith-Booth-Usher Co.
	San Francisco	Edward R. Bacon Co.
Colorado	Denver	Western Machinery Co.
Idaho	Boise	The Sawtooth Co.
Montana	Butte	Butte Machinery Co.
	Great Falls	Central Machinery Co.
	Sidney	Tractor & Equipment Co.
Nevada	Las Vegas	James Cashman Co.
New Mexico	Albuquerque	J. D. Coggins Co.
Oregon	Portland	Nelson Equipment Co.
Utah	Salt Lake City	Western Machinery Co.
Washington	Seattle	A.H. Cox & Co.
		Yukon Equipment Co.
	Spokane	Western Machinery Co.
Wyoming	Cheyenne	Wortham Machinery Co.

JAY COMPANY DIVISION
J. Leukart Machine Co.
168 E. Hosack Street
Columbus 7, Ohio

PRODUCTS: J-12 Tamper.

FACTORY REPRESENTATIVE

California	LaVerne	2073 Peyton Rd. Herbert Dutoit
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DISTRIBUTORS

Alaska	Anchorage	Craig Taylor Equipment
Arizona	Phoenix	State Tractor & Equipment Co.
	Tucson	" " " " " "
California	Berkeley	Central Equipment Co.
	Los Angeles	Garlinghouse, Fremont & Co.
	" "	Industrial Engine Service
	Richmond	Acetogen Cutting Gas Co.
	Sacramento	Central Equipment Co.
	San Diego	Kenton Equipment Co.
Colorado	Denver	Accessory Supply
		Universal Company
Idaho	Boise	The Sawtooth Company
Montana	Billings	Hall-Perry Machinery Co.
	Butte	" " " " " "
	Great Falls	" " " " " "
	Missoula	" " " " " "
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	N. C. Ribble Co.
Oregon	Portland	Cramer Machinery Co.
Utah	Salt Lake City	H. H. Nielsen Co.
Washington	Seattle	Air-Mac, Inc.
		Star Machinery Co.
	Spokane	Ferris Equipment Co.

Pre-selling of equipment buyers and users is the key to getting good distributors — Good distributors want popular lines. WC can make your line popular!

JETCO, INC.
1100 Westminster Avenue
Alhambra, California

PRODUCTS: Trencher Parts — Jiffy Teeth, Buckets, Side Cutters, Adapters and Digging Wheel Rims.

DISTRIBUTORS

Arizona	Phoenix	Shriver Machinery Co.
California	Ontario	Glen B. Doring
	San Bernardino	Garner Implement
	San Francisco	Standard Machinery Co.
	Van Nuys	So. Cal. Equipment Co.
Colorado	Denver	Power Equipment Co.
Idaho	Boise	Engineering Sales & Service
Montana	Helena	Montana Power & Equipment
Nevada	Las Vegas	Blystone Equipment Co.
	Reno	General Equipment Co.
New Mexico	Albuquerque	J.D. Coggins Co.
Utah	Salt Lake City	Atlas Equipment Co.
	" "	Rasmussen Equipment & Supply 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	H.E. Buckler
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DISTRIBUTORS

Alaska	Anchorage	Yukon Equipment Co.
Arizona	Phoenix	Cook Bros. Equipment Sales
California	Los Angeles	Cook Bros. Construction Mch. Co.
	Oakland	" "
	Stockton	Moore Equipment Co. (Buckets only)
Colorado	Denver	King & East Machinery Corp.
Montana	Billings	Western Construction Equipment Co.
	Great Falls	" "
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	Cramer Machinery Co.
Utah	Salt Lake City	Western Machinery Co.
Washington	Seattle	Conrad Creim Co.
	Spokane	Andrews Equipment Service, Inc.

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	R.G. Shearer	Dist. Sales Mgr.
	San Francisco	J.H. Tice	" "
Colorado	Denver	E.A. Toothaker	Res. Mgr. of Sales

EARLE M. JORGENSEN CO.
10650 S. Alameda Street
Los Angeles 54, California

PRODUCTS: "Goldedge" Blades (Cutting Edges for Earth-Moving Equipment).

DISTRICT MANAGERS

California	Los Angeles	C. Schriber
	Oakland	P.C. Childs

Seventeen out of 18 contractor readers save the WC Equipment Directory for year-long reference, value it highly in emergency contacts with equipment distributors and manufacturers!

JOY MANUFACTURING CO.
Oliver Building
Pittsburgh 22, Pennsylvania

PRODUCTS: Air Compressors; Rock Drills; Wagon Drills; Paving Breakers; Spaders; Trench Diggers; Portable Hoists; Air Hose; Portable Lighting Lines; Hydro Drill Jibs.

DISTRICT SALES OFFICES

California	Los Angeles	Manager	T.G. Weir
	San Francisco	"	L.C. Rhodes
Colorado	Denver	"	J.E. Douglas
Utah	Salt Lake City	"	K.A. Lehner

DISTRIBUTORS

Alaska	(Seattle)	Northern Commercial Co.
Arizona	Phoenix	Road Machinery Co.
California	Bakersfield	San Joaquin Tractor Co.
	El Monte	Warnock-Bancroft Equipment Co.
	San Diego	Standard Iron Supply
	San Francisco	Coast Equipment Co.
Colorado	Denver	Harco Machinery Co.
Idaho	Boise	Carl R. Burt Equipment Co.
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	Clyde Equipment Co.
Utah	Salt Lake City	Foulger Equipment Co.
Washington	Seattle	Clyde Equipment Co.
	Spokane	American Machine Co.

KAISER STEEL CORP.
1924 Broadway
Oakland 12, California

Fabricating Division — Napa, 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.

DISTRICT OFFICES

Arizona	Phoenix	Sales Representative	John Mackey
California	Los Angeles	So. District Sales Mgr.	R.R. Hogan
	Oakland	General Sales Mgr.	C.L. Emerson
Colorado	Denver	Sales Representative	Paul Kluthe
Oregon	Portland	"	K. Hessemer
Washington	Seattle	Mgr., NW Dist. Sales	H.H. Bayma

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	Los Angeles	" " " "
	San Francisco	" " " "
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	Spokane Kenworth Co.

KER-O-KIL MANUFACTURING CO.
2701 El Camino Real
Redwood City, California

PRODUCTS: Flame Throwers and Weed Burners (2000° portable heat).

DISTRIBUTORS

Sold through hardware dealers by the principal hardware jobbers in the Pacific States.

WESTERN CONSTRUCTION initiated and sponsors the famous "Dr. L. I. Hewes Award," the Western highway engineer's most coveted prize for achievement!

C. I. T. CORPORATION

120 Montgomery Street, San Francisco
Equitable Building, Portland

416 West 8th Street, Los Angeles

J.S. F. KIESLER CO.
12 W. Huron Street
Chicago 22, Illinois

PRODUCTS: Clamshell Buckets.

DISTRIBUTORS

California	Fresno	Edward R. Bacon Co.
	Los Angeles	Smith-Booth-Usher Co.
	Oakland	Edward R. Bacon Co.
	Sacramento	" " " "
	San Francisco	" " " "
Colorado	Denver	McCoy Co.
		Western Machinery Co.
Idaho	Boise	Feenaughty Machinery Co.
Montana	Billings	Hall-Perry Machinery Co.
	Butte	" " " "
	Great Falls	" " " "
Oregon	Portland	Feenaughty Machinery Co.
Utah	Salt Lake City	Western Machinery Co.
Washington	Seattle	Feenaughty Machinery Co.
	Spokane	" " " "

KING-KNIGHT COMPANY
60 Jefferson Street
San Francisco, California

PRODUCTS: Electric Generating Sets, diesel, gasoline, natural gas, engine and steam turbine driven; Automatic Control Equipment for engine-driven fire pumps, generators, etc.

CLAUER MANUFACTURING CO.
Dubuque
Iowa

PRODUCTS: "Snogo" Rotary Snow Remover; Sheet Metal Building Products.

KOEHRING COMPANY
3026 W. Concordia Avenue
Milwaukee 16, Wisconsin

PRODUCTS: Excavators: Crawler and Rubber Tire Mounted Cranes, Shovels, Hoes, Clamshells, Drag nets; Construction Mixers, Tilt and Nontilt; Pavers, Crawler and Rubber Tire Mounted; Concrete Finishers; Mud-Jacks, Sidewalk, Street, Highway and Railroad; Dumpster; Railroad Cranes.

DISTRIBUTORS

Arizona	Phoenix	Neil B. McGinnis Co.
California	Bakersfield	San Joaquin Tractor Co.
	Los Angeles	Harron, Rickard & McCone Co.
	San Francisco	Standard Machinery Co.
Colorado	Denver	McKelvy Machinery Co.
Idaho	(Spokane)	American Machine Co.
	Boise	Engineering Sales & Service Co.
Montana	Billings	Western Construction Equipment Co.
Nevada	(San Francisco)	Standard Machinery Co.
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	Columbia Equipment Co.
Utah	Salt Lake City	Kimball Equipment Co.
Washington	Seattle	Pacific Hoist & Derrick Co.
	Spokane	American Machine Co.
Wyoming	(Billings)	Western Construction Equipment Co.
	(Denver)	McKelvy Machinery Co.

KOEHRING CO. OF CALIFORNIA
2200 Country Club Blvd.
Stockton, California

PRODUCTS: KO-CAL AUTO-CRETE Portable Batching and Mixing Plants; Portable Cement Silos; Aggregate Bins; Transit-Mix Hoppers; Floor Hoppers; Elevators (bucket and screw type); Screw Conveyors.

DISTRIBUTORS

Arizona	Phoenix	Neil B. McGinnis Equipment Co.
California	Los Angeles	Harron, Rickard & McCone Co.
	San Francisco	Standard Machinery Co.
Idaho	Boise	Engineering Sales Service, Inc.
Montana	Billings	Western Construction Egmt. Co.
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	Columbia Equipment Co.
Utah	Salt Lake City	Kimball Equipment Co.
Washington	Seattle	Pacific Hoist & Derrick Co.
	Spokane	American Machine Co.

Selling the West is an eleven-state job . . . WESTERN CONSTRUCTION covers it all!

KOHLER COMPANY
Kohler
Wisconsin

PRODUCTS: Gasoline Engines.

FACTORY BRANCHES

California	Los Angeles	3458 Wilshire Blvd.	W.D. Porter
	San Francisco	505 Post St.	W.L. Mendenhall
Washington	Seattle	1907 Third Ave.	E.C. Stultz

DISTRIBUTORS

Alaska	Anchorage	Northern Commercial Co.
	Fairbanks	" " "
	Juneau	" " "
	Ketchikan	" " "
	Nome	" " "
Arizona	Phoenix	Nelson Electric Co.
	Tucson	Ranch & Home Supply Co.
California	Berkeley	West Coast Engine & Egmt. Co.
	Los Angeles	Generator Equipment Co.
	Sacramento	Langner & Rifkin
Colorado	Denver	Waukesha Engine & Egmt. Co.
Montana	Billings	H.B. Mann & Co.
Nevada	Reno	Auto Electric
New Mexico	Albuquerque	Hill's Auto Electric Service
	Hobbs	Waukesha Sales & Service, Inc.
Oregon	Portland	Truck & Industrial Equipment Co.
Utah	Salt Lake City	Diesel Electric Service & Supply Co.
Washington	Seattle	Northwest Motor Parts & Mfg. Co.
	"	Northern Commercial Co.
	Spokane	Equipment Sales & Service
Wyoming	Casper	Casper Supply Co.
	Cody	Van's Supply

KOLMAN MANUFACTURING CO.
West 12th Street Road
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.

WESTERN REPRESENTATIVE

California	San Francisco	1739 32nd Ave.	Sam A. Madrid
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DISTRIBUTORS

Alaska	Fairbanks	The Carrington Company
Arizona	Phoenix	Equipment Sales Co.
California	Fresno	Allied Equipment Co.
	Los Angeles	Brown-Bovis Industrial Egmt. Co.
	Marysville	Valley Truck & Tractor Co.
	Oakland	Spears-Wells Machinery Co.
	Sacramento	Sacramento Valley Tractor Co.
Colorado	Denver	Faris-Moritz Equipment Co.
Idaho	Boise	The Sawtooth Company
Montana	Butte	Hall-Perry Machinery Co.
Nevada	Elko	A-D Machinery Co.
New Mexico	Albuquerque	J.D. Coggins Co.
Oregon	Portland	Contractors Equipment Corp.
Utah	Salt Lake City	Rasmussen Equipment & Supply Co.
Washington	Seattle	Air-Mac, 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	" " " "
	San Francisco	" " " "
Colorado	Denver	K.C. Construction Equipment Co.
New Mexico	Albuquerque	W.J. Burke & Co.
Oregon	Portland	" " " "
Utah	Salt Lake City	Intermountain Concrete Specialty Co.
Washington	Seattle	W.J. Burke & Co.

The WC Equipment Directory tells who manufactures equipment you might know only by its trade mark name. Trade names are listed in blue section.

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

KWIK-MIX CO.
235 W. Grand Avenue
Port Washington, Wisconsin

PRODUCTS: Concrete Mixers; Plaster-Mortar Mixers; Bituminous Mixers; Power Wheelbarrows; Fork Lifts.

FACTORY BRANCH

California Stockton 2200 Country Club Rd. H.C. Powers, Mgr.

DISTRIBUTORS

Arizona	Phoenix	Neil B. McGinnis Co.
California	Bakersfield	San Joaquin Tractor Co.
	Los Angeles	Harron, Rickard & McCone Co.
	San Francisco	Standard Machinery Co.
Colorado	Denver	McKelvy Machinery Co.
Idaho	Boise	Engineering Sales & Service Co.
Montana	Billings	Western Construction Eqt. Co.
	Great Falls	" " " "
	Missoula	" " " "
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	Columbia Equipment Co.
Utah	Salt Lake City	Kimball Equipment Co.
Washington	Seattle	Pacific Hcist & Derrick Co.
	Spokane	American Machine Co.

LA CROSSE TRAILER CORP.
418 Gould Street
La Crosse, Wisconsin

PRODUCTS: Low Bed Trailers.

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Los Angeles	Smith-Booth-Usher Co.
	San Francisco	Edward R. Bacon Co.
Colorado	Denver	Liberty Truck & Parts
	"	Western Machinery Co.
Idaho	Boise	The Sawtooth Co.
Montana	Billings	Western Construction Eqt. Co.
	Great Falls	" " " "
Nevada	Reno	R.D. Roeder Equipment Co.
	"	Sanford Tractor & Equipment Co.
New Mexico	Albuquerque	R.L. Harrison Co.
	"	N.C. Ribble
Utah	Salt Lake City	Cate Equipment Co.
	"	Lund Machinery Co.
	"	Western Machinery Co.
Washington	Seattle	Hatten Machinery Co.
	"	Northern Commercial Co.
	"	Star Machinery Co.
	Spokane	American Machinery Co.
Wyoming	Casper	Moss Equipment Co.

LE ROI DIVISION
Westinghouse Air Brake Co.
Milwaukee 1, Wisconsin

PRODUCTS: Air Compressors; Clay Spades; Drills; Engines; Generator Sets; Pavement Breakers; Rock Drills; Tampers; Tractairs; Wagon Drills.

REGIONAL MANAGERS

California	Compton	430 E. Compton	I.E. Smiley
Colorado	Denver	610 Farmers Union Bldg.	W.E. Mattson

FIELD REPRESENTATIVES

California	Compton	430 E. Compton Blvd.	J.H. Crawford
	Emeryville	1545 Park Ave.	W.H. Winheim
Montana	Butte	123 N. Main St.	W.J. Briney
Utah	Salt Lake City	2110 Wyoming St.	T.E. Stone
Washington	Seattle	1565 E. 171st St.	R.E. Marler

DISTRIBUTORS

Alaska	Anchorage	Craig Taylor Equipment & Supply Co.
Arizona	Phoenix	Equipment Sales Company
California	Bakersfield	Crook Company
	Berkeley	Central Equipment Co., Inc.
	Fresno	Lawless Brothers, Inc.
	Los Angeles	Crook Company
	N. Sacramento	Central Equipment Co., Inc.
	Redding	Lowry Equipment Co., Inc.
Colorado	San Francisco	Rlx Company, Inc.
	Denver	Denver Air Machinery Co.
	Grand Junction	S & M Supply Co., Inc.
Idaho	Boise	Southern Idaho Eqt. Co. of Boise
	Idaho Falls	" " " "
	Twin Falls	" " " "
Montana	Billings	Western Construction Eqt. Co.
	Great Falls	" " " "
Nevada	Reno	General Equipment Co.
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Portland	Balzer Machinery Co.
Washington	Seattle	Hatten Machinery Co.
	Spokane	Construction Equipment Co.
Wyoming	Casper	Emrick & Hill Engine & Eqt. 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	2724 1st Ave. So.	H.L. Waltman

WESTERN OFFICES AND WAREHOUSES

California	Los Angeles	6424 E. Fleet St.
Oregon	Portland	914 NW 14th Ave.

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	Ball & Black Supply Co.
	"	Garlinghouse-Fremont & Co.
	Napa	Berglund Tractor & Eqt. Co.
	Oakland	Viking Supply Co.
	Oxnard	Wallace Machinery Co.
	Paso Robles	J.M. Wildman, Inc.
	Salinas	Seaboard Equipment & Supply Co.
	"	Farmers Mercantile Co.
	San Francisco	Coast Equipment Co.
	Santa Rosa	Berglund Tractor & Eqt. Co.
	Stockton	Hickinbotham Bros.
Colorado	Willits	Berglund Tractor & Eqt. Co.
	Denver	Faris-Moritz Equipment Co.
	"	M.L. Foss, Inc.
	Pueblo	Holmes Hardware Co.
	"	S.W. Pressey & Son
Idaho	Boise	Gate City Steel, Inc.
	Pocatello	Flaherty Manufacturing, Inc.
	Salmon	Havemann Hardware Co.
Nevada	Reno	Sierra Machinery Co.
Oregon	Astoria	Alfred Pusti & Co.
	Independence	Independence Iron Works
	Portland	Sparks-Wills, Inc.
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; Blades (scraper, bulldozer, motor grader); Bottom Dump Hauler; Bulldozers; Cranes (mobile, side boom and jib); Flat Bed Haulers; Motor Graders (Adams Div.); Power Control Units; Rear Dump Haulers; Rooters; Root Rake; Scrapers (self-propelled); Scrapers (tractor drawn); Sheep's Foot Rollers; Tournapulls; Tournarope; Tournaractor; Tree Stinger; Twin-C Tractor; Traveler (Adams Div.).

WESTERN PARTS DEPOT

California	Oakland	9121 G St.
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DISTRIBUTORS

Alaska	Anchorage	Bashaw Equipment Co.
Arizona	Phoenix	Road Machinery Co.
California	Bakersfield	Crook Company
	Oakland	Blakemore Equipment Co.
	Denver	Johnson & Tudor Co.
Idaho (N)	(Billings)	Western Construction Eqt. Co.
Idaho (S)	(Salt Lake)	Rocky Mountain Machinery Co.
Montana	Billings	Western Construction Eqt. Co.
	Great Falls	" " " "
Oregon	Eugene	Loggers & Contractors Mchy. Co.
	Portland	" " " "
Nevada	Reno	Pioneer Eqt. Co. of Nevada
New Mexico	Albuquerque	Contractors Eqt. & Supply Co.
	(El Paso)	" " " "
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	(Portland)	Loggers & Contractors Mchy. Co.
	Seattle	Western Tractor & Eqt. Co.
Wyoming	(Billings)	Western Construction Eqt. Co.
	Casper	Moss Equipment & Supply Co.

More of the West's State and County highway engineers read WC than any construction magazine in the Country!

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120 Montgomery Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

THE LINCOLN ELECTRIC CO.
801 St. Clair Avenue
Cleveland 17, Ohio

PRODUCTS: Electric Arc Welders; Arc Welding Electrodes and Arc Welding Supplies.

FACTORY BRANCHES

California	Los Angeles	Manager	J.B. McCornick
	San Francisco	"	C.L. Stocker
Colorado	Denver	"	Merrill Yale
Oregon	Portland	"	E.H. Weil
Washington	Seattle	"	R.L. Wilcox

DISTRIBUTORS

Montana	Billings	Great Northern Tool & Supply Co.
New Mexico	Albuquerque	Big Three Welding Supply Co.
Utah	Salt Lake City	Industrial Supply Co.

INCOLN ENGINEERING CO.
701 Natural Bridge Avenue
St. Louis, Missouri

PRODUCTS: Lubrication Equipment; Grease Pumps; Motor Oil Pumps; Portable Service Stations.

FACTORY PERSONNEL

California	Los Angeles	2844 S. Grand Ave.	L.L. Meikle
	"	"	Pres. & Gen. Mgr.
	"	"	A.E. Walker, D.M.
	"	"	H. Koses, D.M.
Oregon	Portland	1018 SE 8th Ave.	Ed Craven, D.M.

LINK-BELT SPEEDER CORP.
1201 Sixth Street S.W.
Cedar Rapids, Iowa

PRODUCTS: Shovels; Cranes; Trench Hoes; Draglines — crawler, truck, wheel-mounted; gasoline, diesel or electric power.

DISTRICT SALES REPRESENTATIVES

California	San Mateo	1112 Sunnybrae Blvd.	W.E. Kuhlman
Oregon	Portland	5619 SW Menefee Dr.	J.E. Fleming

DISTRICT SERVICE REPRESENTATIVES

California	San Mateo	1120 Sunnybrae Blvd.	C. Cadwallader
	Portland	2345 NE 10th Ave.	D.G. Ballard

DISTRIBUTORS

Alaska	Anchorage	Craig Taylor Eqpt. & Supply Co.
Arizona	Phoenix	Equipment Sales Co.
California	Fresno	Edward R. Bacon Co.
	Los Angeles	Essick Machinery Co.
	Oakland	Edward R. Bacon Co.
	Redwood Valley	" " " "
	Sacramento	" " " "
	San Francisco	" " " "
	Santa Ana	Essick Machinery Co.
	Stockton	Edward R. Bacon Co.
Colorado	Denver	H.W. Moore Equipment Co.
	Durango	" " " "
	Grand Junction	" " " "
Idaho	American Falls	Western Equipment Co.
	Boise	" " " "
	Idaho Falls	" " " "
	Twin Falls	" " " "
Montana	Billings	Montana Power & Equipment Co.
	Helena	" " " "
Nevada	Elko	A-D Machinery Co.
New Mexico	Albuquerque	J.D. Coggins Co.
	Farmington	" " " "
Oregon	Albany	Howard-Cooper Corp.
	Central Point	" " " "
	Coquille	" " " "
	Eugene	" " " "
	Ontario	Western Equipment Co.
	Portland	Howard-Cooper Corp.
	Roseburg	" " " "
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Seattle	Howard-Cooper Corp.
	Spokane	Western Machinery Co.
Wyoming	Casper	Studer Tractor & Equipment Co.

More first place editorial awards have been won by WESTERN CONSTRUCTION than any construction magazine west of New York!

LIPPMANN ENGINEERING WORKS, INC.
4603 West Mitchell Street
Milwaukee 14, Wisconsin

PRODUCTS: Jaw Crushers; Crushing Plants; Vibrating Screens; Washing Plants; Scrubbers; Conveyors.

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Los Angeles	Larson Equipment Co.
	San Francisco	Coast Equipment Co.
Idaho	Idaho Falls	Southern Idaho Equipment Co.
Washington	Seattle	Hulse Machinery Co.
Wyoming	Casper	Moss Equipment & Supply Co.

LITTLE GIANT CRANE & SHOVEL, INC.
E. 16th and Howard Drive
Des Moines 13, Iowa

PRODUCTS: Shovels; Cranes; Clamshells; Draglines; Trenches; Pile Drivers; Post Drivers; Magnet Cranes; Crawler, Swamper, Truck and Rail Propulsion Mounted; Gasoline, Diesel or Electric Power.

DISTRIBUTORS

Arizona	Phoenix	Superior Equipment Co.
California	Los Angeles	Industrial Engine Service
Montana	Billings	Western Construction Eqpt. Co.
	Great Falls	" " " "
Washington	Seattle	Pacific Hoist & Derrick Co.
	Spokane	Western Machinery Co.

LITTLEFORD BROS., INC.
460 East Pearl Street
Cincinnati, Ohio

PRODUCTS: Bituminous Distributors; Kwik-Steam Generators; Supply Tanks; Utility Spray Tanks; Tar and Asphalt Kettles; Road Rollers; Road Brooms; Tanker Steam Heaters; Asphalt Tools and Pots; Heater-Planer; True-Lay Paver-Spreader; Trail-O-Patcher; Emulsion Sprayers; Tool Heaters; Tool Boxes.

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Los Angeles	Smith-Booth-Usher Co.
	San Francisco	Edward R. Bacon Co.
Colorado	Denver	Ray Corson Machinery Co.
Idaho	Boise	Feenaughty Machinery Co.
Montana	Billings	Hall-Perry Machinery Co.
New Mexico	Albuquerque	J.D. Coggins Co.
Oregon	Portland	Feenaughty Machinery Co.
Utah	Salt Lake City	Lund Machinery Co.
Washington	Seattle	Feenaughty Machinery Co.
	Spokane	" " " "
Wyoming	Cheyenne	Worham Machinery Co.

LOS ANGELES STEEL CASTING CO.
6100 South Boyle Avenue
Los Angeles 58, California

PRODUCTS: TAMPRITE Tamper Shanks and Tips.

LUDERJAK COMPANY
566 East Main Street
El Cajon, California

PRODUCTS: Luderjak T-Heads for Shoreing.

LULL ENGINEERING CO.
3045 Highway 13
St. Paul 11, Minnesota

PRODUCTS: Underbody Truck Grader, Ice Blades and Ice Roller Crushers; Street Sweepers.

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 New Mexico
	Farmington	Farmington Motor Co.
Oregon	Portland	Edward L. Kropp Co.
Utah	Salt Lake City	Foulger Equipment Co.
Washington	Seattle	Robblee Utilities Equipment Co.
Wyoming	Casper	Natrona Supply Co.

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LYNN ENGINEERING CO.
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PRODUCTS: Diesel and Gasoline Powered Light Plants.

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California Redwood City 4 Sequoia Way Franklin B. Lyons

M-B CORPORATION
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 Wisconsin

PRODUCTS: Power Brooms; Street, Airport, Highway and Warehouse Markers; Garbage Collection Bodies; M-B Truck Loaders.

WESTERN DISTRICT REPRESENTATIVE

California San Mateo 240 E. Bellevue Don Farmer

DISTRIBUTORS

Arizona	Phoenix	Road Machinery Co.
California	Los Angeles	Smith-Booth-Usher Co.
	San Francisco	Edward R. Bacon Co.
Colorado	Denver	Liberty Trucks & Parts
	"	Timpte Brothers, Inc.
Montana	Billings	Industrial Equipment Co.
	Great Falls	Normont Equipment Co.
Nevada	Las Vegas	Clark County Wholesale Merc. Co.
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Portland	Contractors Equipment Corp.
Utah	Salt Lake City	Western Machinery Co.
Washington	Spokane	"
	Seattle	Sahlberg Equipment, Inc.
Wyoming	Cheyenne	Keremi Tractor & Equipment Co.

M-R-S MANUFACTURING CO.
 P.O. Box 336
 Flora, Mississippi

PRODUCTS: Diesel Wheel Tractors; Hauling Units; Bulldozers.

DISTRICT PERSONNEL

California	Arcadia	22 El Dorado St.	J.W. Appleman, S.M.
	Long Beach	3520 Gundry Ave.	R.T. Hudgins, Repr.

DISTRIBUTORS

Arizona	Tucson	F. Ronstadt Hardware Co.
California	Belmont	Power Machinery Co.
	Fresno	Allied Equipment Co.
	Los Angeles	LeRoi-Rix Machinery Co.
	San Diego	Southern Eqt. & Supply Co.
Colorado	Denver	Faris-Moritz Equipment Co.
New Mexico	Albuquerque	N.C. Ribble Co.

MACK TRUCKS, INC.
 Western Division Headquarters
 2001 South Alameda Street
 Los Angeles 58, California

PRODUCTS: Motor Trucks; Buses and Fire Apparatus.

FACTORY BRANCH MANAGERS

California	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	Portland	1122 N. Williams	J.D. Young
Utah	Salt Lake City	704 S. 3rd West	S.V. Trent
Washington	Seattle	3707 Airport Way	E.A. May

WESTERN DIVISION GENERAL MANAGERS

California	Los Angeles	J.C. Rowold	General Manager
	"	L.F. Lindstrom	Asst. Gen. Mgr.

DISTRIBUTORS

Arizona	Phoenix	Arizona Truck Service & Sales
	Tucson	Graves & Reed
California	Arcata	Redwood Mack Sales, Inc.
	Bakersfield	California Truck & Ind. Eqt. Co.
	Blythe	Leo's Truck & Diesel Service
	Colma	Ferretti Bros.
	Fresno	Reliable Automotive Co.
	Long Beach	Ed's Truck Service
	Napa	Napa-Solano Mack Sales & Service
	Oakland	Howard B. Fredericks Co.
	Palm Springs	Harold Smith Garage
	Redding	Bulldog Trucks, Inc.
	Sacramento	W.V. Morgan Co., A Corporation
	San Bernardino	Valley Parts & Equipment Co.
	San Diego	Harbor Tire & Supply Co.
	San Jose	Morgan's
	San Luis Obispo	Farmers Hardware & Eqt. Co.

Continued in next column

MACK TRUCKS, INC. (CONTINUED)

	Stockton	Roessler Truck Sales
	Ventura	Fleet Maintenance, Inc.
Colorado	Grand Junction	Grand Junction Mack Sales & Service
	Pueblo	Mutual Machinery Co.
Idaho	Boise	Southern Idaho Eqt. Co. of Boise
	Idaho Falls	Roy J. Keller, Inc.
	Lewiston	Idaho Cletrac Sales Co.
	Twin Falls	Wyllies Truck Sales
Montana	Billings	Billings Mack Sales & Service, Inc.
	Butte	Roberts Truck & Parts Supply
	Great Falls	Rice Motors
	Missoula	Brian Motor Co.
Nevada	Las Vegas	The Motor Equipment Co.
	Reno	Reno Equipment Sales Co.
Oregon	Eugene	Pitchford Mack Sales Co.
	Medford	Jerry Olson Mack Sales
	Ontario	Mutch Oil Co.
	Pilot Rock	Mathews Motor Service
	Portland	Howard-Cooper Corp. (Fire App.)
	Redmond	Mid-States Truck & Tractor
	Salem	Valley-Cascade Truck & Parts, Inc.
Utah	Cedar City	Cox Motor Co.
	Logan	Dean C. Pack Motor Co., Inc.
	Ogden	Rawson Garage Co.
	Provo	Central Utah Motor Co.
	Tooele	E.L. Gillespie's Excel Service
Washington	Chehalis	Mathis Motors
	Concrete	Concrete Automotive
	Spokane	Lilenquist Motors, Inc.
	Wenatchee	Elliott Equipment Co.
	Woodland	Tri-County Mack Sales & Service
	Yakima	Tire Sales & Equipment
Wyoming	Casper	Wyoming Mack Motors
	Cheyenne	O'Dell Motor Co.

MACWHYTE CO.
 2909 14th Avenue
 Kenosha, Wisconsin

PRODUCTS: Wire Rope Slings; Wire Rope (Cable) Assemblies; Stainless Steel, Monel Metal and Plastic Coated Wire Rope.

WESTERN OFFICES

California	Los Angeles	2035 Sacramento St.	PH: TR 8383
	San Francisco	188 King St.	PH: EX 2-4966
Oregon	Portland	1603 NW 14th Ave.	PH: BR 1661
Washington	Seattle	87 Holgate St.	PH: MA 1715

MADSEN WORKS
 Construction Equipment Division
 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); Royal Crown Pump Valves.

DISTRIBUTORS

Alaska	Anchorage	Evans Engine & Equipment Co., Inc.
Arizona	Phoenix	Shriver Machinery Co.
California	La Mirada	Madsen Wks., Div. of Baldwin-Lima-Hamilton Corp.
	Oakland	C.H. Grant Co.
	Denver	McCoy Company
Colorado	Boise	The Sawtooth Co.
Idaho	Billings	Hall-Perry Machinery Co.
Montana	Butte	" " " "
	Nevada (Salt Lake)	Foulger Equipment Co.
	Oregon	Cramer Machinery Co.
	Utah	Foulger Equipment Co.
Washington	Seattle	Evans Engine & Eqt. Co., Inc.
	Spokane	Modern Machinery Co., Inc.
Wyoming	Casper	Studer Tractor & Equipment Co.

More of the West's County equipment superintendents read WESTERN CONSTRUCTION than any other construction magazine.

C. I. T. CORPORATION

120 Montgomery Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

MAGNISS POWER TOOL CO.1 Distl Avenue
Mansfield, Ohio**PRODUCTS:** Hi-electric (80 cycle) Concrete Vibrators and Generators; Side Form, Full Slab and Widening Strip Vibrator Attachments for Concrete Spreaders and Finishers.**DISTRIBUTORS**

Arizona	Phoenix	Western Machinery Co.
California	Berkeley	West Coast Engine & Eqpt. Co.
	Fresno	" "
	Sacramento	Island Equipment Co.
	Stockton	Equipment Sales & Service
	Los Angeles	Electric Tool & Supply Co.
Colorado	Denver	Western Machinery Co.
Montana	Billings	Montana Power & Equipment Co.
	Helena	" "
Oregon	Portland	Casey Tractor & Equipment Co.
Utah	Salt Lake City	Western Machinery Co.
Washington	Seattle	Universal Equipment Co.
	Spokane	Construction Equipment Co.

MALL TOOL CO.P.O. Remington Arms Co., Inc.
710 South Chicago Avenue
Chicago 19, Illinois**PRODUCTS:** Gasoline, Electric and Air Powered Concrete Vibrators; Power Trowels; Electric and Air Powered Drills; Impact Wrenches; Circular Saws; Sanders; Grinders; Screw Drivers; Terrazzo Grinders; Gasoline, Air and Electric Chain Saws; Gasoline Powered Earth Boreers.**FACTORY BRANCHES**

Arizona	Phoenix	244 S. First Ave.	R.J. Wallis
California	Los Angeles	5316 Santa Fe	Tom Kelly
Colorado	Denver	3601 Brighton	H.S. Chalmers
Oregon	Portland	8811 NE Sandy	Edw. Fielder
Washington	Seattle	2920 1st Ave. So.	Lloyd Nelson

DISTRICT MANAGERS

California	San Francisco	785 Market St.	D.L. Braun
Oregon	Portland	921 SW Washington	D.N. Weimer
Utah	Salt Lake City	909 Walker Bldg.	D.W. Flannigan

DISTRIBUTORS IN ALL PRINCIPAL CITIES**MALSBARY MANUFACTURING CO.**922nd Avenue
Oakland 3, California**PRODUCTS:** Steam Vapor Cleaners; High Pressure Combination Cleaners; Water Heaters; Steam Generators.**DISTRICT SALES MANAGERS**

California	Los Angeles	3923 W. 6th St.	D.E. Nortz
Colorado	Denver	171 S. Holly St.	John Larsen
Montana	Billings	315 Hart-Albin Bg.	Ind. Supply Co.
Utah	Salt Lake City	61 E. 7th So. St.	Karl Winter Co.

DISTRIBUTORS

Alaska	(Seattle)	Yukon Equipment Co.
Arizona	Phoenix	E-Z Janitor Supply Co.
		Huddleston Equipment Co.
	Tucson	Harbour Tire & Auto Supply
California	Bakersfield	Delfel's
	Fresno	Edward R. Bacon Co.
		Haehl Equipment Co.
	Los Angeles	Duncan Hunter Equipment Co.
		Turco Products, Inc.
	San Francisco	Edward R. Bacon Co.
		Yosemite Chemical Co.
Colorado	Colorado Springs	Motor Parts & Supply
	Denver	H.W. Moore Equipment Co.
Idaho	Boise	Engineering Sales & Service Co.
	Nampa	Ensign Service & Supply Co.
Montana	Billings	Hines Motor Supply
	Bozeman	" "
	Great Falls	" "
	Kalispell	Treasure State Equipment Co.
	Lewiston	Hines Motor Supply
	Miles City	" "
Nevada	Reno	Gardner Automotive Parts
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Oregon	Portland	Shields Harper Co.
Utah	Salt Lake City	Robert Taylor & Sons
Washington	Seattle	Halldie Machinery Co.
		Modern Machinery Co.
Wyoming	Casper	Wyoming Automotive Co.

MANITOWOC ENGINEERING CORP.South Sixteenth Street
Manitowoc, Wisconsin**PRODUCTS:** Crawler and Truck Mounted Power Cranes; Draglines, Shovels and Trenches.**DISTRIBUTORS**

Arizona	Phoenix	O.S. Stapley Co.
California	El Cerrito	Tool Equipment Rental, Inc.
	Los Angeles	Casey-Metcalf Machinery Co., Inc.
Colorado	Denver	Air Rentals, Inc.
Montana	Helena	Steffek Equipment Co.
New Mexico	Albuquerque	J.D. Coggins Co.
Oregon	Portland	Manitou Equipment Co.
Utah	Salt Lake City	Foulger Equipment Co.
Washington	Seattle	C.H. Bell Equipment Co.

MARION METAL PRODUCTS CO.Cheney Avenue & Otis Street
Marion, Ohio**PRODUCTS:** Hydraulic Hoists and Steel Dump Bodies; Dump Trailers; Lift Gates; Refuse Collection Units.**DISTRIBUTORS**

Arizona	Phoenix	J.H. Holan
	Tucson	Bogard GMC Co.
California	Fresno	Ruckstell California Sales Co.
	Los Angeles	Truck Bodies Co.
	Oakland	Ruckstell California Sales Co.
Colorado	Denver	Woebber Auto Body & Mfg.
Montana	Great Falls	Johnson Distributing Co.
New Mexico	Albuquerque	M & F Equipment Co.
Oregon	Portland	Pacific Body Builders, Inc.
Washington	Seattle	Washington Truck Equipment, Inc.
	Spokane	Alloy Manufacturing Co.

MARION POWER SHOVEL CO.West Center Street
Marion, Ohio**PRODUCTS:** Power Cranes; Shovels; Draglines; Clamshells; Backhoes; Magnet Cranes; Pile Drivers; Skimmers — from 1/2 to 75 cubic yard capacity; from 10 to 60 ton lifting capacity; mounted on crawlers or trucks.**WESTERN SALES MANAGER**

California	S. San Francisco	326 Shaw Road	Dean Calland
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DISTRICT REPRESENTATIVES

Arizona	Phoenix	1017 N. 22nd Ave.	Ernest J. Riggs, Jr.
California	Los Angeles	4835 Crenshaw Blvd.	T.R. Fogelberg
Oregon	Portland	3133 NE 87th Pl.	Wm. F. Lanus

DISTRIBUTORS

Alaska	(Seattle)	Star Machinery Co.
Colorado	Denver	Western Machinery Co.
New Mexico	Albuquerque	M & F Equipment Co.
Oregon	Eugene	Western Equipment Co.
	Portland	" "
Washington	Seattle	Star Machinery Co.
	Spokane	" "

MARLOW PUMPSBox 200
Midland Park, New Jersey**PRODUCTS:** Dewatering Pumps.**FACTORY REPRESENTATIVES**

California	Burbank	223 S. Beachwood	Wm. M. Coopman
Oregon	Portland	Box 4326	L. Harrington Co.

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	Bakersfield	Crooks Co.
	Blythe	McBride Pump & Supply Co.
	Monrovia	Geo. M. Philpott Co.
	Oakland	" "
	Sacramento	" "
	San Diego	Kenton Equipment Co.
	San Francisco	Geo. M. Philpott Co.
	Denver	A.J. Philpott Co.
Colorado	Boise	Engineering Sales Service, Inc.
Idaho	Billings	Montana Power & Equipment Co.
Montana	Helena	" "
Oregon	Portland	Geo. M. Philpott Co.
Washington	Seattle	Sahlberg Equipment, Inc.
		Star Machinery Co.

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

MARMON-HERRINGTON CO., INC.
 1511 W. Washington Street
 Indianapolis 7, Indiana

PRODUCTS: Trucks; Heavy Duty All-Wheel Drive; Ford Trucks re-manufactured to All-Wheel Drive Trucks.

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 Implement Co.
Nevada	Reno	General Equipment Co.
New Mexico	Albuquerque	The Winter-Weiss Co. of New Mexico
	Farmington	Farmington Motor Co.
Oregon	Portland	Edward L. Kropp Co.
Utah	Salt Lake City	Foulger Equipment Co.
Washington	Seattle	Robblee Utilities Equipment Co.
Wyoming	Casper	Natrona Supply Co.

MARTIN IRON WORKS, LTD.
 1222 East 28th Street
 P.O. Box 2857, Terminal Annex
 Los Angeles 11, California

PRODUCTS: Valves and Gate Valves; Portable Hydrants; Pipe Machines; Sprinkler Equipment.

MARTIN MACHINE CO.
 816 North East Street
 Kewanee, Illinois

PRODUCTS: Heavy Duty Equipment Trailers.

Your "CATERPILLAR" Dealer is your MARTIN Dealer.

MARVEL EQUIPMENT CORP.
 215 Eagle Street
 Brooklyn 22, New York

PRODUCTS: Vibrators; Generators (gasoline and diesel portable); Flexible Shaft Grinders.

DISTRIBUTORS

California	Pasadena	J.E. Haddock, Ltd.
Colorado	Denver	McKelvy Machinery Co.
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	Brunner & Lay Corp.
Utah	Salt Lake City	Heiner Equipment Co.
Washington	Spokane	Fred M. Viles Co.
Wyoming	Casper	Studer Tractor & Equipment Co.

MASSEY-HARRIS-FERGUSON, INC.
 Industrial Division
 Quality Avenue
 Racine, Wisconsin

PRODUCTS: Work Bull Tractors — 34 to 52 HP with integrated front and rear attachments for a wide range of applications; Front End Loader; Backhoe; Pipe and Cable Layer; Multi-Purpose Blade; Side-Mounted Mower; Broom or Sweeper; Rotary Trencher; Post Hole Digger; Rotary Mower; Reel Type Mower; Dozer Blade; Fork Lift; Scarifier; Utility Boom.

GENERAL SALES MANAGER

Wisconsin Racine 1721 Packard Ave. B.R. Bermann

MASTER VIBRATOR CO.
 1752 Stanley Avenue
 Dayton 1, Ohio

PRODUCTS: Generator Plants; Vibratory Screeds; Concrete Vibrators; Tampers; Hammers, Electric; Turn-A-Trowels and Space Heaters.

REGIONAL MANAGER

California Los Angeles 2056 W. Century Blvd. F.J. Fial

DISTRIBUTORS

Alaska	Anchorage	Craig-Taylor Equipment Co.
Arizona	Phoenix	Shriver Machinery Co.
California	Los Angeles	West Coast Master, Inc.
Colorado	Denver	Power Equipment Co.
Idaho	Boise	Western Equipment Co.
	Idaho Falls	" "
Montana	Billings	Western Construction Eqpt. Co.
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	New Mexico Equipment Co.
Oregon	Portland	Nelson Equipment Co.
Utah	Salt Lake City	Foulger Equipment Co.
Washington	Seattle	Andrews Equipment Co.
	"	Totem Equipment Co.
	Spokane	Andrews Equipment Co.
Wyoming	Cheyenne	Wortham Machinery Co.

MATERIAL HANDLING, INC.
 4985 Fyler Avenue
 St. Louis 9, Missouri

PRODUCTS: Material Handling Equipment; Batchers; Binders; Bins; Conveyors; Gates; Storage Bins; Water Meters; Bulk Cement Plants.

THE MAXI CORP.
 1584 East Twentieth Street
 P.O. Box 3129, Terminal Annex
 Los Angeles 54, California

PRODUCTS: Crane Carriers; Brake Attachments (Parking and Emergency); Six-Wheel Truck Units; Winches and Hoists.

DISTRIBUTORS

Contact local Crane & Shovel Dealer for Maxi Crane Carrier information and other products.

MAXON CONSTRUCTION CO., INC.
 2600 Far Hills Avenue
 Dayton 9, Ohio

PRODUCTS: Dumpcrete — non-agitated concrete hauling unit.

DISTRIBUTORS

Arizona	Phoenix	Neil B. McGinnis Equipment Co.
California	Los Angeles	Garlinghouse-Fremont & Co.
	San Francisco	Standard Machinery Co.
Idaho	Boise	Columbia Equipment Co.
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	Cramer Machinery Co.
Utah	Salt Lake City	C.H. Jones Equipment Co.
Washington	Seattle	Columbia Equipment Co.

MAYHEW SUPPLY CO., INC.
 4700 Scyene Road
 Dallas, Texas

PRODUCTS: Portable Rotary Drill Rigs; Core Drills; Parts and Supplies.

FACTORY BRANCH MANAGERS

Colorado	Grand Junction	2909 North Ave.	Buddy Halbert
Montana	Sidney	813 Second St.	John Stoddler
New Mexico	Gallup	805 E. Hiway 66	Lou Ladwig
Wyoming	Casper	502 N. Fenway	George Brown

DIVISION MANAGER

Wyoming Casper 502 N. Fenway Ray Medlock

DISTRIBUTOR

California San Francisco George M. Philpott Co.

M.P. McCAFFREY, INC.
 2121 East Twenty-fifth Street
 Los Angeles 58, California

PRODUCTS: Clamshell Buckets; Crane Booms; Back Hoe Attachments; Sheaves and Sheave Blocks; Rock Tongs; "MacGrab" Grapples.

DISTRIBUTORS

Arizona	Phoenix	Lee Redman Equipment Co.
	"	Western Machinery Co.
California	El Cerrito	Tool Equipment Rental Co.
	Richmond	Bay Equipment Co.
	San Francisco	Edward R. Bacon Co.
	"	Coast Equipment Co.
	"	Standard Machinery Co.
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	Contractors Eqpt. & Supply Co.
Oregon	Medford	Cal-Ore Machinery Co.
Utah	Salt Lake City	Arnold Machinery Co.

Save your Equipment Directory for emergency contacts with equipment distributors and manufacturers . . . it's quick and easy! Tell manufacturers and distributors you saw it in WESTERN CONSTRUCTION—it helps improve WC's service to you!

Western construction men value the WC Equipment Directory in making emergency contacts with equipment manufacturers and distributors!

McAFFREY-RUDDOCK TAGLINE CORP.

24 East 25th Street
Los Angeles 58, California

PRODUCTS: Rud-O-Matic Taglines; Magnet Reels; Rud-O-Matic Thomas Boomstops; Rud-O-Matic Hose Reels.

DISTRIBUTORS

Arizona	Phoenix	Bertram Electric Co.
	"	Equipment Sales Co.
	"	E.D. Flournoy Co.
	"	Lee Redman Equipment Co.
California	Berkeley	Shriver Machinery Co.
	Los Angeles	Owen Bucket Co., Ltd.
	"	Batchelor Rigging Supplies Co.
	"	Brown-Bevis Industrial Eqt. Co.
	"	Cook Bros. Construction Mch. Co.
	"	Crook Company
	"	Essick Manufacturing Co.
	"	Harron, Rickard & McCone Co.
	"	M.P. McCaffrey, Inc.
	"	Shaw Sales & Service Co.
	"	Shepherd Tractor & Equipment Co.
	"	F.W. Shrader Co.
	"	Smith-Booth-Usher Co.
	"	Southern Calif. Equipment Co.
Colorado	Wilmington	Hendricks Equipment Co.
	Denver	Constructors Equipment Co., Inc.
	"	Ray Corson Machinery Co.
	"	Faris-Moritz Equipment Co.
	"	H.W. Moore Equipment Co.
	"	Quick-Way Truck Shovel Co.
Idaho	Boise	Feenaughty Machinery Co.
	"	Western Equipment Co.
Idaho Falls	"	Arnold Machinery Co., Inc.
Billings	"	Hall-Perry Machinery Co.
Butte	"	"
	"	Pioneer Equipment & Supply Co.
	Great Falls	Normont Equipment Co.
	"	Hall-Perry Machinery Co.
	"	Westmont Tractor & Equipment Co.
Nevada	Missoula	Sierra Machinery Co.
Reno	"	Contractors Equipment & Supply Co.
New Mexico	Albuquerque	E.D. Flournoy Co.
	"	El Paso Welding Supply
Oregon	Hobbs	P.L. Crooks & Co., Inc.
	Eugene	Western Equipment Co.
	"	Cal-Ore Machinery Co.
	Medford	Balzer Machinery Co.
	Portland	Clyde Equipment Co.
	"	P.L. Crooks & Co., Inc.
	"	Electric Steel Foundry Co.
	"	Feenaughty Machinery Co.
	"	Hyster Company
	"	Western Equipment Co.
Utah	Salt Lake City	Arnold Machinery Co.
	"	Foulger Equipment Co.
Washington	Seattle	Clyde Equipment Co.
	"	A.H. Cox & Co.
	"	Feenaughty Machinery Co.
	"	Hatten Machinery Co.
	"	Star Machinery Co.
	"	Washington Machinery Co.
	Spokane	Electric Steel Foundry Co.
	"	Feenaughty Machinery Co.
	"	General Machinery Co.
	"	Modern Machinery Co., Inc.
	Tacoma	A.H. Cox & Co.
Wyoming	Wenatchee	"
	Casper	"
	Cheyenne	Kereml Tractor & Equipment Co.

McCulloch Motors Corp.

101 West Century Boulevard
Los Angeles 45, California

PRODUCTS: Chain Saws; Earth Drills; Fire Pumps (Gasoline Driven).

DISTRIBUTORS

Arizona	Phoenix	Waukesha Southwestern
California	Eureka	Riley Logging Supply Co.
	Los Angeles	Fornaciari Co.
	Sacramento	Leavitt Power Tool Co.
	San Francisco	Frazar & Hansen, Ltd.
	"	Kellogg-Little Co.
Colorado	Denver	Tri State Equipment Co.
Idaho	Boise	Boise Saw Sales
New Mexico	Albuquerque	Gorman Engineering Co.
Oregon	Bend	Bend Chain Saw Service, Inc.
	Eugene	Foster-McCulloch Co.
	Medford	Southern Oregon Equipment Co.
	Portland	Northwest Loggers Supply Co.
Washington	Seattle	Northern Commercial Co.
	"	Pacific Equipment, Inc.
	Spokane	Far West Equipment Co.
	Yakima	McCulloch-Cascade Co.

McKiernan-Terry Corp.

24 Mercer Street
Dover, New Jersey

PRODUCTS: Pile Hammers; Pile Extractors; Pile Leads; Sand Drain Driving Equipment; Steam Generators.

DISTRIBUTORS

California	Los Angeles	Garlinghouse, Fremont & Co.
	San Francisco	Edward R. Bacon Co.
Colorado	Denver	Mine & Smelter Supply Co.
New Mexico	Albuquerque	R.L. Harrison Co.
Oregon	Portland	Cramer Machinery Co.
Utah	Salt Lake City	C.H. Jones Equipment Co.
Washington	Seattle	Star Machinery Co.
	Spokane	"

METAL FORMS CORP.

3300 North Booth Street
Milwaukee 12, Wisconsin

PRODUCTS: Metal Forms for concrete construction work; Foundation Forms; Road Forms; Curb and Gutter Forms; Circular Tank and Silo Forms; Manhole Forms.

DISTRIBUTORS

Alaska	Anchorage	Craig Taylor Eqt. & Supply Co.
Arizona	Phoenix	State Tractor & Equipment Co.
California	Los Angeles	Brown-Bevis Industrial Eqt. Co.
Colorado	Denver	Corson Machinery Co.
Idaho	Pocatello	Flaherty Equipment Co.
Montana	Billings	Western Construction Eqt. Co.
Nevada	Las Vegas	Inland Service & Supply Co.
Utah	Salt Lake City	Lund Machinery Co.
	"	Rocky Mountain Machinery Co.

MID-WESTERN INDUSTRIES, INC.

1009 South West Street
Wichita 15, Kansas

PRODUCTS: Davis Loader with following attachments: Crane, Fork Lift, Scarifier, Dozer Blade, Utility Bucket, Flare Bucket, Landscape Bucket; Davis Back-hoe.

DISTRICT REPRESENTATIVES

California	Lodi	901 West Vine	John Vilven
(Arizona, California, Idaho, Nevada, Oregon, Utah, Washington & Western Wyoming)			
Kansas	Wichita	1719 N. High St.	Dale Tuell
(Colorado, New Mexico & S.E. Wyoming)			
So. Dakota	Sioux Falls	915 S. Duluth St.	Perry Stark
(Montana & N.E. Wyoming)			

DISTRIBUTORS

Arizona	(Los Angeles)	Tractor Sales Corp.
California	Los Angeles	"
	Stockton	"
	"	H.C. Shaw Co.
Colorado	Denver	Massey-Harris-Ferguson
	"	Interstate Tractor Sales Corp.
Idaho (N)	(Portland)	Massey-Harris-Ferguson
(S)	(Salt Lake)	Viking Equipment Co.
	Pocatello	General Implement Dists., Inc.
Montana	Billings	Massey-Harris-Ferguson, Inc.
	"	Massey-Harris-Ferguson
	"	Montana Oliver Distributing Co.
Nevada	Great Falls	"
	(Los Angeles)	Tractor Sales Corp.
	(Pocatello)	Massey-Harris-Ferguson, Inc.
	(Salt Lake)	General Implement Dists., Inc.
	(Stockton)	Massey-Harris-Ferguson, Inc.
New Mexico	(Denver)	Tractor Sales Corp.
	"	Interstate Tractor Sales Corp.
Oregon	Portland	Massey-Harris-Ferguson, Inc.
	"	"
Utah	Salt Lake City	Viking Equipment Co.
	(Pocatello)	Western Farm Equipment
Washington	(Portland)	General Implement Dists.
	"	Massey-Harris-Ferguson, Inc.
Wyoming (NE)	(Billings)	Western Farm Equipment
(SE)	(Denver)	Viking Equipment Co.
(W)	(Pocatello)	Massey-Harris-Ferguson, Inc.
(NE)	(Great Falls)	Montana Oliver Distributing Co.
(E)	(Denver)	Massey-Harris-Ferguson, Inc.
(W)	(Salt Lake)	General Implement Dists.

Distributors want to sell popular equipment lines—Make your line popular with consistent advertising in WC!

**C. I. T. finances installment sales
of equipment for many Distributors**

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; Material Spreaders; Concrete Buckets.

DISTRIBUTOR

Colorado Denver Johnson-Tudor Co.

MILLER SPREADER CORP.
4020 Simon Road
Youngstown 12, Ohio

PRODUCTS: Towed Spreader; Lute-O-Rake (all aluminum lute); Tool Heater; Heated Sced.

DISTRIBUTORS

Arizona	Phoenix	Road Machinery Co.
California	Oakland	C.H. Grant Co.
Colorado	Denver	Ray Corson Machinery Co.
Idaho	Boise	Columbia Equipment Co.
Montana	Billings	Leonard Motor Co.
New Mexico	Albuquerque	Western Construction Ept. Co.
Oregon	Portland	Columbia Equipment Co.
Utah	Salt Lake City	Kimball Equipment Co.
Washington	Seattle	Columbia Equipment Co.
Wyoming	Casper	Moss Equipment Co.

MILLER TILT-TOP TRAILER CO.
450 South 92nd Street
Milwaukee 14, Wisconsin

PRODUCTS: Machinery Hauling Trailers.

DISTRIBUTORS

Alaska	Anchorage (Seattle)	Mt. McKinley Eqpt. Distributors
Arizona	Phoenix	Northern Commercial Co.
California	Los Angeles	Neil B. McGinnis Equipment Co.
Colorado	Denver	Superior Equipment Co.
Montana	Billings	Brown-Bevis Industrial Ept. Co.
Nevada	Reno	Winter-Weiss Co.
New Mexico	Albuquerque	Seitz Machinery Co.
Utah	Salt Lake City	Nevada Equipment Service, Inc.
Washington	Seattle	Winter-Weiss Co.
Wyoming	Casper	Cate Equipment Co.
		Lang Co., Inc.
		Northern Commercial Co.
		Pacific Hoist & Derrick Co.
		Studer Tractor & Equipment Co.

MINNEAPOLIS-MOLINE CO.
Industrial Power Division
P.O. Box 1050
Minneapolis 1, Minnesota

PRODUCTS: Tractors, Industrial Wheel Type and Power Units, 27 to 292 HP; Gasoline, Diesel, Gas and Distillate.

FACTORY BRANCH

California Stockton Manager H. F. Anderson

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Bakersfield	Inland Equipment Co.
	Los Angeles	Casey-Metcalf Machinery Co., Inc.
	"	Industrial Engine Service
	San Francisco	Oswald Machine Works
	San Jose	Thomas L. Pierce Co.
Colorado	Denver	Gundersen-Taylor Machinery Co.
	Pueblo	Mutual Machinery Co.
Montana	Great Falls	Central Machinery Co.
	Miles City	Tractor & Equipment Co.
	Missoula	Missoula Mercantile Co.
New Mexico	Albuquerque	Contractors Ept. & Supply Co.
Oregon	Portland	Andrews & Andrews Equipment Co.

MISSISSIPPI VALLEY EQUIPMENT CO.
511 Locust Street
St. Louis 1, Missouri

PRODUCTS: Rental and sale of Steel Sheet Piling and Bearing Pile; Rebuilt and New Pile Hammers; Pile Extractors and Pile Driving Accessories; Heavy Construction and Railway Equipment.

Write us for more information.

Selling the West is an eleven-state job . . . WESTERN CONSTRUCTION covers it all!

MIXERMOBILE DISTRIBUTORS, INC.
8027 N.E. Killingsworth
Portland 20, Oregon

PRODUCTS: Scoopmobiles (2 & 4-wheel drive); Mixermobiles; Towermobiles; Duo-Way Scoops; Duo-Way Lifts; Stationary Towers; Stationary Mixers.

DISTRICT REPRESENTATIVES

California Oregon	La Habra Portland	700 Linda Ave. 10450 SW 53rd	Glyn O. White Glen M. Ede
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DEALERS

Arizona	Phoenix	Equipment Sales Co.
California	Los Angeles	Essick Machinery Co.
	Oakland	Mixermobile Sales & Service
Montana	Billings	Hall-Perry Machinery Co.
	Butte	" " " "
	Great Falls	" " " "
	Missoula	Westmont Tractor & Equipment Co.
Nevada	Reno	General Equipment Co.
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Portland	Nelson Equipment Co.
Utah	Salt Lake City	Heiner Equipment & Supply Co.
Washington	Seattle	Air-Mac, Inc. of Washington
	Spokane	" " " "
	Yakima	" " " "

MONARCH ROAD MACHINERY CO.
1331 Michigan Street N.E.
Grand Rapids 3, Michigan

PRODUCTS: Hydraulic Power Control Equipment for the automatic operation of Snow Plows, Road Machinery and similar devices; HY-LO-JACK and HY-LO-JEEP Fan-Belt Driven Models; DYNA-MIGHT Electric Storage Battery Powered Models for 6 or 12-volt systems; DYNA-CHUTE Electric Hydraulic Control for the automatic operation of Discharge Chutes on Ready-Mix Trucks; Monarch GUARD-GATE Emergency Barricade.

DISTRIBUTOR

The Rucker Co. 4700 San Pablo Ave. Oakland, Calif.
for the states of
Alaska, Arizona, California, Idaho, Nevada, Oregon, Washington

MONATCO MANUFACTURING CORP.
1401 Woodland
Kansas City 6, Missouri

PRODUCTS: Hydraulic Actuators; Asphalt Road Planers; Steel Dumping Bodies; Trailers (special); High Lift Car Icing Bodies.

DISTRIBUTORS

B.C.	Vancouver	Loggers & Contractors Ept. Co.
California	San Francisco	Coast Equipment Co.
Oregon	Portland	Cramer Machinery Co.
Washington	(Portland)	" " " "

MORGEN MANUFACTURING CO.
117 West Third Street
Yankton, South Dakota

PRODUCTS: Steel Scaffolding.

DISTRICT MANAGER

Nevada	Las Vegas	1008 Sahara Way	Don Schlaifer
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DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
	Tucson	Bobby Building Specialties
Colorado	Denver	Western Machinery Co.
Utah	Salt Lake City	" " " "
Washington	Seattle	Mutual Materials Co.

MORSE BROS. MACHINERY CO.
2900 Brighton Blvd.
Denver 1, Colorado

PRODUCTS: Jaw Crushers; Pulverizers; Ball and Rod Mills; Flotation Machines; Classifiers; Thickeners; Agitators; Vacuum Filters; Diaphragm Pumps.

MORSE-STARRETT PRODUCTS CO.
1204 49th Avenue
Oakland, California

PRODUCTS: Cutters, Wire Rope; Cutters, Cable; Wire Rope Seizing Bands.

Sold through almost all heavy equipment, oil well supply and hardware dealer outlets.

C. I. T. CORPORATION

120 Montgomery Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

MUNICIPAL SUPPLY CO.
108 South Main Street
South Bend 23, Indiana

PRODUCTS: Street Sweepers; Street Flushers; Street Sprinklers; Bituminous Distributors; Bituminous Maintenance Units.

DISTRIBUTORS

California	El Monte	Warnock-Bancroft Equipment Co.
Colorado	Denver	Construction Equipment Co.
Idaho	Boise	The Sawtooth Company
	(Spokane)	Inland Diesel & Machinery Co.
Montana	Butte	Pioneer Equipment & Supply Co.
New Mexico	Roowell	Smith Machinery Co., Inc.
Oregon	Portland	Edward L. Kropp Co.
Utah	Salt Lake City	C.H. Jones Equipment Co.
Washington	Spokane	Inland Diesel & Machinery Co.

MURPHY DIESEL CO.
117 West Burnham Street
Milwaukee 14, Wisconsin

PRODUCTS: Engines and Power Units, 96 to 264 HP; Generator Sets, 64 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	324 College Drive	F. North Jones
Colorado	Denver	1325 S. Ingalls St.	J. L. Jarboe
Washington	Redmond	Rt. 1, Box 1057	Bradley Bartlett

DISTRIBUTORS

Arizona	Phoenix	Superior Equipment Co.
California	Bakersfield	Glenn Rose Engine Service
	Los Angeles	Industrial Engine Service
	" "	National Steel & Shipbuilding Corp.
	San Francisco	Oswald Machine Works
Colorado	Denver	Macdonald Equipment Co.
Idaho	Boise	Engineering Sales Service, Inc.
Montana	Butte	Hall-Perry Machinery Co.
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Medford	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.

R. MURPHY SCALE CO., INC.
610 North "C" Street
Sacramento, California

PRODUCTS: Contractors' Motor Truck Portable Scales; Motor Truck Pit Type Scales; Hopper Scales; Built-in and Livestock Scales; Special Scale Equipment.

DISTRIBUTORS

Sold by machinery and equipment dealers throughout the entire United States.

NAPCO INDUSTRIES, INC.
834 - 7th Street North
Minneapolis 11, Minnesota

PRODUCTS: Napco Loaders; Federal Trucks; Special on and off Road Vehicles.

NATIONAL WELDING EQUIPMENT CO.
218 Fremont Street
San Francisco 5, California

PRODUCTS: Welding and Cutting Torches for all flame applications; Single and Two-Stage Regulators; Manifolds; Station Valves and Line Regulators; Special Torches for Heating; Multi-Flames, including water-cooled equipment; Flowmeters for rare gases; Adapters and Fittings for welding; Medical Regulators; Humidifiers; Flowmeters for oxygen therapy.

DISTRIBUTORS

Distributors from Coast-to-Coast and in all major foreign countries.

Save your Equipment Directory for emergency contacts with equipment distributors and manufacturers . . . it's quick and easy! Tell manufacturers and distributors you saw it in WESTERN CONSTRUCTION—it helps improve WC's service to you!

NEO-FLASHER MANUFACTURING CO.
3210 Valhalla Drive
Burbank, California

PRODUCTS: Flasher Warning Lights and Barricades for construction uses.

FACTORY BRANCH

California	Oakland	555 5th Ave.	Rex Songster
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DISTRICT MANAGERS

Colorado	Denver	2 Santa Fe	Church Blackwell
Oregon	Portland	122 SW First Ave.	Art Sullivan
Washington	Seattle	1954 First Ave.	Bruce Rutherford

DISTRIBUTORS

Arizona	Phoenix	Graybar Electric Co.
	"	Western Machinery Co.
California	Alhambra	Frank Cox Equipment Co.
	Fresno	Graybar Electric Co.
	Long Beach	" "
	Los Angeles	Acme Industrial Supply Co.
	" "	Construction Supply Co.
	" "	Graybar Electric Co.
	" "	Harron, Rickard & McCone
	" "	Otto K. Olesen Co.
	Oakland	Graybar Electric Co.
	Sacramento	A & B Neo-Flasher Sales & Service
	"	Graybar Electric Co.
	San Bernardino	" "
	San Diego	" "
	San Francisco	" "
Colorado	Denver	" "
	"	Western Machinery Co.
Idaho	Boise	Graybar Electric Co.
Montana	Helena	Montana Power & Equipment Co.
Oregon	Eugene	Graybar Electric Co.
	Portland	Cramer Machinery Co.
	"	Graybar Electric Co.
	"	Traffic Safety Supply Co.
Utah	Salt Lake City	Graybar Electric Co.
	" "	Western Machinery Co.
Washington	Seattle	Graybar Electric Co.
	"	Sahlberg Equipment Co.
	"	Star Machinery Co.
	Spokane	Graybar Electric Co.
	"	Western Machinery Co.
	Tacoma	Graybar Electric Co.
Wyoming	Cheyenne	Wortham Machinery Co.

NOBLE COMPANY
1860 Seventh Street
Oakland 20, California

PRODUCTS: Cement and Aggregate Batching Plants; Bins; Cement Silos; Conveyors; Elevators; Hoppers; Air Ram and Manually Operated Clamshell and Slide Type Bin Gates; Concrete Buckets; Bridge and Gantry Cranes.

NORTHWEST DISTRICT SALES REPRESENTATIVE

Washington	Seattle	518 1st Ave. N.	Arthur B. Kinley
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SOUTHWEST DISTRICT SALES REPRESENTATIVE

California	El Segundo	218 Richmond St.	Lawrence D. Taylor
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DISTRIBUTORS

Arizona	Phoenix	Superior Equipment Co.
California	Los Angeles	Smith-Booth-Usher Co.
	Oakland	Noble Company
Colorado	Denver	Western Machinery Co.
Idaho	Boise	Arnold Machinery Co.
New Mexico	(El Paso)	Border Machinery Co.
Oregon	Portland	Clyde Equipment Co.
Utah	Salt Lake City	Arnold Machinery Co.
Washington	(Portland)	Clyde Equipment Co.
	Seattle	Star Machinery Co.
Wyoming	Casper	Studer Tractor & Equipment Co.

NO-JOINT CONCRETE PIPE CO.
Colusa Highway
Yuba City 2, California

PRODUCTS: Machine cast in place concrete pipe for storm drains, irrigation and underground canals.

Seventeen out of 18 contractor readers save the WC Equipment Directory for year-long reference, value it highly in emergency contacts with equipment distributors and manufacturers!

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

NORDBERG MANUFACTURING CO.
 3073 South Chase Avenue
 Milwaukee 1, Wisconsin

PRODUCTS: "SYMONS" Cone Crushers and Vibrating Screens; Primary Gyratory Crushers; Gyradisc Crushers; Grinding Mills; Kilns; Coolers; Mine Hoists; Railway Track Maintenance Machinery; Diesel Engines (10 to 12,800 HP).

FACTORY BRANCHES

California	San Francisco	674 Harrison St.	C.G.Cox
Canada	Vancouver	1876 W.Georgia St.	S.C.McComb

DISTRIBUTORS

Idaho	Boise	Intermountain Equipment Co.
Oregon	Portland	Balzer Machinery Co.
Washington	Seattle	Sahlberg Equipment, Inc.

NORTHFIELD IRON CO.
 Northfield
 Minnesota

PRODUCTS: All Steel Snow Fence.

DISTRIBUTORS

Idaho	(Salt Lake)	J.T.Holland Co.
Montana	Billings	Roscoe Steel Culvert Co.
Nevada	(Salt Lake)	J.T.Holland Co.
Utah	Salt Lake City	" " "
Wyoming	(Billings)	Roscoe Steel Culvert Co.

NORTHWEST ENGINEERING CO.
 135 South LaSalle Street
 Chicago 3, Illinois

PRODUCTS: Shovels; Cranes; Draglines and Pullshovels — crawler and truck mounted.

FACTORY BRANCHES

California	Vernon	Manager	P.G.Rowe
	San Francisco	"	A.G.Crowley
Washington	Seattle	"	J.L.Tallman

DISTRIBUTORS

Arizona	Phoenix	Superior Equipment Co.
California	Eureka	Brizard Mathews
	Redding	Garlinger Steel & Supply Co.
Colorado	Denver	Power Equipment Co.
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Medford	Cal-Ore Machinery Co.
	Portland	Balzer Machinery Co.
Utah	Salt Lake City	Arnold Machinery Co.
Washington	Spokane	General Machinery Co.
	Wenatchee	Elliott Equipment Co.
Wyoming	Cheyenne	Keremi Tractor & Equipment Co.

NOVO PUMP & ENGINE CO.
 702 Porter Street
 Lansing 5, Michigan

PRODUCTS: Diaphragm Pumps; Hoists; Pavement Breakers.

DISTRIBUTORS

California	Los Angeles	Garlinghouse, Fremont, Inc.
Colorado	Denver	Air Rentals, Inc.
Idaho	(Salt Lake)	Heiner Equipment & Supply Co.
Utah	Salt Lake City	" " "
Wyoming	(Denver)	Air Rentals, Inc.
	(Salt Lake)	Heiner Equipment & Supply Co.

OLIVER CORP.
 400 West Madison Street
 Chicago 25, Illinois

PRODUCTS: Crawler and Wheel Tractors (Gas and Diesel) with allied equipment.

FACTORY BRANCHES

California	Los Angeles	4330 District Blvd.	H.W.DeMent
	Oakland	1066 47th Ave.	G.M.Blow
Oregon	Portland	130 SE Morrison	H.E.Noess

DISTRIBUTORS

Alaska	Anchorage	Bashaw Equipment
	Fairbanks	Herning Equipment Co.
Arizona	Phoenix	Arizona Equipment Sales, Inc.
California	Bakersfield	Motor Truck Sales & Service Co.
	Chico	Cal-Butte Tractor Co.
	Colton	Condosta Tractor Co.
	Cotati	Tractor Specialties Co.
	Eureka	Gustafson Tractor Co.

Continued In next column

OLIVER CORP. (CONTINUED)

Los Angeles	LeRoi-Rix Machinery Co.	
Napa	Warner-Ritz Tractor & Eqpt. Co.	
Porterville	Farmer Equipment & Tractor Co.	
Redding	Lowry Equipment Co., Inc.	
Sacramento	Flood Equipment Co.	
Salinas	Ashton Implement Co.	
San Diego	Crofton Truck & Tractor Co.	
San Jose	Mechanical Farm-Eqpt. Dists., Inc.	
San Leandro	M.F.D., Inc.	
Stockton	H & M Tractor Co.	
Tustin	Schneide Tractor Co.	
Colorado	Colorado Springs	Colorado Road Machinery Co.
Denver	Liberty Trucks & Parts Co.	
Pueblo	Colorado Road Machinery Co.	
Idaho	Boise	Engineering Sales Service, Inc.
Montana	Billings	Caird Engineering Works
	Helena	" " "
Nevada	Whitney	Western Tractor Sales
New Mexico	Albuquerque	N.C.Ribble Co.
Oregon	Eugene	Loggers & Contractors Mchy. Co.
	Portland	" " "
Utah	Salt Lake City	Arnold Machinery Co., Inc.
Washington	Chehalis	Buck & Son Farm Equipment Co.
	Seattle	Parker Buck & Son, Inc.
	Spokane	Inland Diesel & Machinery Co.
	Walla Walla	Melcher-Ray Machinery Co.

OMARK INDUSTRIES
 5001 S.E. Johnson Creek Blvd.
 Portland 6, Oregon

PRODUCTS: Omark Drive-It — Powder Actuated Tools and Drivpins (for fastening building material to concrete or steel); Omark Hammer Drive — Hammer Powered Stud Driver (for fastening light building material to concrete or steel).

FACTORY BRANCH

California	7422 Beverly Blvd.	Los Angeles	C.A.Barofsky
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DISTRICT FIELD MANAGER

Oregon	Portland	5001 SE Johnson Creek Blvd.	D.Norris
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DISTRIBUTORS

Alaska	Anchorage	Caliber Equipment Supply
California	Los Angeles	R.S.Hardy, Inc.
	"	The Hubbard Co.
	San Francisco	J.F.Hamlin Co., Inc.
Colorado	Denver	Livengood Tool Sales
Oregon	Portland	K.L.Tamiesie Co.
Utah	Salt Lake City	Mark A.Stokes Co.

D. W. ONAN & SONS, INC.
 University Avenue Southeast & 25th
 Minneapolis 14, Minnesota

PRODUCTS: Electric Generating Plants; Gasoline and Diesel; Gasoline Engines; Separate Generators; Diesel Engines.

ZONE MANAGERS

California	Palo Alto	1588 Edgewood Dr.	Frank Gernand
Colorado	Denver	2800 Tennyson St.	Les LeLande

DISTRIBUTORS

Arizona	Nogales	Commercial Distributors
	Phoenix	Equipment Sales Co.
California	Monterey	Ets Hokin & Galvan
	Oakland	" " "
	San Diego	" " "
	San Francisco	" " "
	Stockton	" " "
	Wilmington	" " "
Colorado	Denver	B.K.Sweeney Co.
Montana	Billings	Great Northern Tool & Supply
	Cutbank	" " "
	Great Falls	Brack Motor Supply
	Helena	" " "
	Missoula	Treasure State Machinery Co.
New Mexico	Albuquerque	Industrial Supply Co.
Oregon	Portland	Sparks Wills, Inc.
Utah	Salt Lake City	Motor Mercantile Co.
Washington	Seattle	Fremont Electric Co.
Wyoming	Casper	Power Service, Inc.

Save your Equipment Directory for emergency contacts with equipment distributors and manufacturers . . . it's quick and easy! Tell manufacturers and distributors you saw it in WESTERN CONSTRUCTION—it helps improve WC's service to you!

C. I. T. CORPORATION

120 Montgomery Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

SHKOSH MOTOR TRUCK, INC.100 Oregon Street
shkosh, Wisconsin**PRODUCTS:** 4 and 6 Wheel Drive Trucks.**SALES REPRESENTATIVE**

California Port Heunema 406 Gill Ave. R.O. Fredrick

DISTRIBUTORS

California	Los Angeles	LeRoi-Rix Machinery Co.
	San Francisco	Coast Equipment Co.
	"	Engs Motor Truck Co.
Colorado	Denver	Liberty Truck & Parts Co.
Idaho	Boise	Engineering Sales & Service, Inc.
Montana	Billings	Western Construction Equipment Co.
Nevada	Reno	Jenkins & Albright
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	Contractors Equipment Corp.
Utah	Salt Lake City	Arnold Machinery Co.
Washington	Seattle	Totem Equipment Co.
Wyoming	Cheyenne	Keremi Tractor & Equipment Co.

OTTAWA STEEL DIVISIONA. 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	Los Angeles	Smith-Booth-Usher Co.
	San Francisco	Edward R. Bacon Co.
Colorado	Denver	Western Machinery Co.
Idaho	Boise	Intermountain Equipment Co.
	"	Starline Equipment Co.
Montana	Billings	Seitz Machinery Co.
	"	"
New Mexico	Great Falls	J.D. Coggins Co.
	Albuquerque	Leaco Company
	Hobbs	Cramer Machinery Co.
Oregon	Portland	Howard-Cooper Corp.
	"	Kimball Equipment Co.
Utah	Salt Lake City	Howard-Cooper Corp.
Washington	Seattle	Star Machinery Co.
	"	Howard-Cooper Corp.
	Spokane	Western Machinery Co.
	"	Keremi Tractor & Equipment Co.
Wyoming	Casper	"
	Cheyenne	"

OVERSTROM & SONS2213 West Mission Road
Alhambra, California**PRODUCTS:** Vibrating Screens.**DISTRIBUTORS**

Alaska	(Seattle)	Washington Machinery Co.
Montana	Missoula	Miller Machinery Co.
Utah	Salt Lake City	Lund Machinery Co.
Washington	Seattle	Washington Machinery Co.

OWEN BUCKET CO.59th and Breakwater
Cleveland, Ohio**PRODUCTS:** Clamshell Buckets and Grapples.**FACTORY BRANCH**

California Berkeley 2nd & Gilman Sts. E.L. Kelzer

DISTRIBUTORS

Arizona	Phoenix	Any crane and shovel distributor
California	Los Angeles	"
	San Diego	Southern Equipment & Supply Co.
Idaho	Boise	Intermountain Equipment Co.
Nevada	Reno	Any crane and shovel distributor
Oregon	Portland	Clyde Equipment Co.
Utah	Salt Lake City	Any crane and shovel distributor
Washington	Seattle	A.H. Cox & Co.
	Spokane	Intermountain Equipment Co.

More of the West's State and County highway engineers read
WC than any construction magazine in the Country!**PACIFIC CAR & FOUNDRY COMPANY**Fourth and Factory
Renton, Washington**PRODUCTS:** Hoists; Winches; Logging Arches; Wire Rope; Rigging Fittings; Power Control Units; Ship Repair; Structural Fabrication and Erection of all kinds; Forgings; Castings; Sheet Metal Work; Military Vehicles; Refrigerator Cars; Commercial Galvanizing; Heat Treating; Machining.**DISTRIBUTORS****ALL PRINCIPAL TRACTOR DEALERS IN ALL STATES****PACIFIC PUMPING CO.**
9201 San Leandro Street
Oakland 3, California**PRODUCTS:** Pumps — Centrifugal, Sump and Sewage, Contractors' and Boiler Feed.**FACTORY BRANCHES**

California	Los Angeles	5000 District Blvd.	R.H. Franklin
Oregon	Portland	526 NW Broadway	S.B. Hunting
Washington	Seattle	114 W. Harrison St.	Burt Nelson

REPRESENTATIVE

Colorado Denver 2963 S. Meade Ave. S.F. Buscarello

SALES ENGINEERS

Arizona	Phoenix	7520 N. 17th Dr.	Hugh L. Robinson
Washington	Spokane	10510 E. 20th Ave.	R.O. Haneberg

DISTRIBUTORS

Arizona	Phoenix	Construction & Mining Supply Co.
	"	National Equipment Co.
	"	Phoenix Pipe & Supply Co.
Colorado	Tucson	Arizona Maintenance Co.
	Denver	Colorado Pump & Supply Co.
	"	Mine & Smelter Supply Co.
New Mexico	Albuquerque	Waukesha Engine & Equipment Co.
	"	Harrison Co., Inc.
Nevada	Las Vegas	Seebree-Huff Equipment Co.
	Reno	Standard Wholesale Supply Co.
Oregon	Eugene	Crane Co.
	"	Peerless Pacific Co.
	Portland	Tillman-Booth Co.
	"	Consolidated Supply Co.
	"	Crane Co.
	"	Grinnell Co.
Utah	Salt Lake City	Peerless Pacific Co.
	"	The Galigher Co.
	"	National Equipment Co.
Washington	Seattle	Consolidated Supply Co.
	"	Crane Co.
	"	Palmer Supply Co.
	"	Seattle Plumbing Supply
	Spokane	Crane Co.
	"	Dickerson Machinery Co.
	Walla Walla	Ault Irrigation
	Wenatchee	Reid Pump & Supply
	Yakima	Schichtl Brothers

PACIFIC WIRE ROPE CO.1840 East 15th Street
Los Angeles 21, California**PRODUCTS:** Wire Rope and Galvanized Strand.**FACTORY REPRESENTATIVES**

California	San Francisco	681 Market St.	John G. Bowen
Oregon	Portland	3615 NW St. Helens	James K. Mosser

SALES CO-ORDINATOR

California Los Angeles 1840 E. 15th St. N. Graham

DISTRIBUTORS

Alaska	Anchorage	Evans Engine & Equipment Co.
Arizona	Phoenix	Arizona Equipment Sales
California	Bakersfield	Lamb Wire Line Service
	Blythe	Honnen Machinery Co.
	El Centro	Faure Tractor Co.
	Modesto	American Distributing Co.
	Redding	Paul Droscher Sales
	Riverside	Johnson Tractor Co.
	San Diego	San Diego Tractor & Equipment Co.
	"	Ducommun Metals & Supply Co.
Idaho	Boise	Spencer Supply Co.
Nevada	Fallon	Bernie Spencer Industrial Sales & Serv.
New Mexico	Albuquerque	A.E. Boyd Co.
Oregon	Portland	Balzer Machinery Co.
	Cosco Bay	Loggers Supply Co.
	Roseburg	Flury Supply Co.
	Medford	Rogue Equipment Co.
Utah	Salt Lake City	J.T. Holland Co.
Washington	Seattle	Collins Machinery Co.
	Spokane	Helliwell & Co.

**C. I. T. finances installment sales
of equipment for many Distributors**

PAGE ENGINEERING CO.
 Clearing Post Office
 Chicago 38, Illinois

PRODUCTS: Walking Draglines; Automatic Dragline Buckets; Chain and Bucket Accessories, including TWIN-PIN Connecting Link.

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Los Angeles	Bevis Machinery Co.
"	"	Brown-Bevis Industrial Eqpt. Co.
"	"	Casey-Metcalf Machinery Co.
"	"	Cook Bros. Equipment Co.
"	"	Smith-Booth-Usher Co.
"	Oakland	The Brose Co.
"	Richmond	Bay Equipment Co.
"	San Francisco	Coast Equipment Co.
"	"	Edward R. Bacon Co.
"	"	Robinson Equipment Co.
"	"	Standard Machinery Co.
"	Stockton	Moore Equipment Co.
"	"	Stockton Iron Works
Colorado	Denver	Colorado Builders Supply Co.
"	"	Ray Corson Machinery Co.
"	"	Faris-Moritz Supply Co.
"	"	Liberty Trucks & Parts Co.
"	"	Mine & Smelter Supply Co.
"	"	H.W. Moore Equipment Co.
"	"	McCoy Company
"	"	McKelvy Machinery
"	"	Power Equipment Co.
"	"	Rocky Mountain Export Co.
"	"	Western Machinery Co.
Idaho	Boise	Intermountain Equipment Co.
Idaho	Falls	Southern Idaho Equipment Co.
Montana	Billings	Hall-Perry Machinery Co.
"	"	Industrial Equipment Co.
"	"	Western Construction Equipment Co.
"	"	Seitz Machinery Co., Inc.
"	Butte	Hall-Perry Machinery Co.
"	Great Falls	Central Machinery Co.
"	"	Hall-Perry Machinery Co.
"	Helena	Steffeck Equipment Co.
"	Missoula	Hall-Perry Machinery Co.
"	"	Treasure State Equipment Co.
New Mexico	Albuquerque	Westmont Tractor & Eqpt. Co.
"	"	Contractors' Equipment & Supply Co.
Oregon	Medford	Harry Cornelius Co.
"	Portland	Cal-Ore Machinery Co.
"	"	Feenaughty Machinery Co.
"	"	Howard-Cooper Corp.
"	"	Nelson Equipment Co.
Utah	Salt Lake City	Arnold Machinery Co.
"	"	H.H. Nielson Co.
"	"	Western Machinery Co.
"	"	Wheeler-Kershaw Co.
Washington	Seattle	A.H. Cox & Co.
"	"	Northern Commercial Co.
"	"	Star Machinery Co.
"	"	Yukon Equipment Co.
"	Spokane	Andrews Equipment Co.
"	"	Modern Machinery Co.
Wyoming	Casper	Keremi Tractor & Equipment Co.
"	"	Studer Tractor & Equipment Co.
"	Cheyenne	Wortham Machinery Co.
"	Greybull	Nash-Davis Machinery Co.

THE PARSONS COMPANY
 200 North 8th Avenue East
 Newton, Iowa

PRODUCTS: Trenchliners and Trenchmobile (Ditchers and Trenchers).

FACTORY BRANCH

California	Stockton	Koehring Co. of California
Manager	Harry Powers	2200 Country Club Blvd.

DISTRICT REPRESENTATIVE

Stockton	2200 Country Club Blvd.	W.B. Thompson
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DISTRIBUTORS

Arizona	Phoenix	Neil B. McGinnis Equipment Co.
California	Los Angeles	Harron, Rickard & McCone Co.
"	San Francisco	Standard Machinery Co.
Colorado	Denver	McKelvy Machinery Co.
Idaho	Boise	Engineering Sales Service, Inc.
Montana	Billings	Western Construction Machinery Co.
"	Great Falls	Western Construction Equipment Co.
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	Columbia Equipment Co.
Utah	Salt Lake City	Kimball Equipment Co.
Washington	Seattle	Pacific Hoist & Derrick Co.
"	Spokane	American Machine Co.
Wyoming(N)	(Billings)	Western Construction Equipment Co.
(S)	(Denver)	McKelvy Machinery Co.

THE PATENT SCAFFOLDING CO., INC.
 38-21 12th Street
 Long Island City, New York

PRODUCTS: All types of Steel and Aluminum Scaffolds; Steel Shoring for concrete construction.

FACTORY BRANCHES

California	Los Angeles	6931 Stanford Ave.	R.C. Barsch
"	San Francisco	1695 Mission St.	R.B. Bergh
Washington	Seattle	420 8th Ave. N.	J.J. Wilbur

DISTRIBUTORS

Arizona	Phoenix	Superior Equipment Co.
California	Fresno	Ray Wayne
"	N. Sacramento	Capitol Scaffolding & Eqpt. Co.
Colorado	Denver	The United Materials Co.
New Mexico	Albuquerque	Contractors Eqpt. & Supply Co.
"	Roswell	Lumberman's Supply Co.
Oregon	Portland	James A.C. Tait Co.
Utah	Salt Lake City	Hansen Lime & Stucco Co.
Washington	Spokane	Allied Industries, Inc.
"	Wenatchee	Columbia Concrete Pipe Co.

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	"	Holly Stanford
"	Fresno	"	C.H. Sortor
New Mexico	Albuquerque	"	Max Maurer

PERFECTION STEEL BODY CO.
 Galion
 Ohio

PRODUCTS: Perfection-Dump, Stake, Contractors', Coal and Coke, Drop Side, Steel Platform and Special Purpose Truck Bodies; Trailer Bodies; Hydraulic Hoists; Farm Booster Type Hoists; Hydraulic Lift End Gates (Hydra-Power); Two Wheel Trailers; Wagons; Soil Pulverizers.

DISTRIBUTORS

Dealers in all principal cities.

PETERBILT MOTORS CO.
 10700 MacArthur Blvd.
 Oakland 5, California

PRODUCTS: Heavy Duty Motor Trucks, including on and off highway models; MacDonald Division; Low Body Trucks; Converter Bodies and Lift Trucks.

FACTORY BRANCH

California	San Francisco	757 Folsom St.	Mr. Morris, Mgr.
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DISTRIBUTORS

Arizona	Phoenix	Arizona Equipment Sales, Inc.
California	Fresno	Connell Motor Truck Co.
"	Los Angeles	Motor Truck Distributors Co.
"	San Jose	Coast Counties Truck & Eqpt. Co.
"	Stockton	Connell Motor Truck Co.
Colorado	Denver	Kaer Truck & Equipment Co.
Idaho	Boise	Glenn Dick Equipment Co.
New Mexico	Albuquerque	Hartshorn Truck Sales
Oregon	Portland	Peterbilt Sales, Inc.
Utah	Salt Lake City	Peterbilt Truck Sales Co.
Washington	Seattle	Northwest Truck Sales, Inc.
"	Spokane	Inland Diesel & Machinery Co.

The key to job performance is modern equipment made by reputable manufacturers, sold and serviced by reputable distributors . . . buy your equipment from WESTERN CONSTRUCTION advertisers!

Good distributors seek equipment lines buyers want — Consistent advertising in WESTERN CONSTRUCTION builds buyer acceptance and demand!

C. I. T. CORPORATION

120 Montgomery Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

ETTIBONE MULLIKEN CORP.700 West Division Street
Chicago 51, Illinois**PRODUCTS:** Motor Graders; Tractor Shovels; Speed Swing Loaders; Yard Cranes; Bucket Conveyor Loaders; Fork and Bucket Loaders; Material Handling Buckets; Clamshell, Dragline, Pullshovel Dippers and Shovel Dippers; Manganese Steel Castings.**FACTORY BRANCH**

California N.Hollywood 6900 Tujunga Ave. Pettibone Wood Mfg.Co.

DISTRICT MANAGERS

California	N.Hollywood	12147 Huston St.	C.W.Cadarette
	Palo Alto	674 Wellsbury	A.E.Ainlay
Colorado	Denver	790 Lincoln	E.J.Towey

DISTRIBUTORS

Alaska	(Seattle)	Yukon Equipment Co.
Arizona	Phoenix	Arizona Equipment Sales, Inc.
California	Berkeley	West Coast Engine & Equipment Co.
	Los Angeles	Calavar Corp.
	Sacramento	Island Equipment Co.
	Stockton	Equipment Sales & Service
Colorado	Denver	Liberty Trucks & Parts Co.
Idaho	Boise	Starline Equipment Co.
	Pocatello	Rocky Mountain Machinery Co.
Montana	Helena	Montana Power & Equipment Co.
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Eugene	Western Equipment Co.
	Medford	Cal-Ore Machinery Co.
	Portland	Western Equipment Co.
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Seattle	Western Tractor & Equipment Co.
	Spokane	Andrews Equipment Service
Wyoming	Cheyenne	Mountain Equipment Co.

PETTIBONE WOOD MFG. CO.6900 Tujunga Avenue
North Hollywood, California**PRODUCTS:** Roadmixers; P-600 Series Preparizers; Speedmixers; Spreader Boxes; Windrow Proportioners; Cement Bazookas; Cement Bulklers; Tank Trailers.**FACTORY PERSONNEL**

N.Hollywood	6900 Tujunga	R.D.Leibale	Sales Manager
Fresno	3719 Valeria	Chas.McPherson	Sales Engineer

DISTRICT REPRESENTATIVES

California	Palo Alto	674 Wellsbury Way	Alex Ainlay
Colorado	Denver	3518 Holly St.	E.J.Towey

DISTRIBUTORS

Alaska	(Seattle)	Yukon Equipment Co.
Arizona	Phoenix	Equipment Sales Co.
California	Berkeley	West Coast Engine & Eqpt. Co.
	Los Angeles	Pettibone Wood Mfg. Co.
	Sacramento	Island Equipment Co.
	Stockton	Equipment Sales & Service
Colorado	Denver	H.W.Moore Equipment Co.
Idaho	(Salt Lake)	Arnold Machinery Co.
Montana	Butte	Hall-Perry Machinery Co.
Nevada	Reno	Sierra Machinery Co., Inc.
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	P.L.Crooks Co.
Utah	Salt Lake City	Arnold Machinery Co.
Washington	Seattle	Western Tractor & Equipment Co.
	Spokane	Modern Machinery Co., Inc.

PIONEER ENGINEERING WORKS, INC.3200 Como Avenue
Minneapolis 13, 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	2091 Jasmine St.	Elton T.Fair
Oregon	Portland	2145 NE Hancock	Wm.H.Schanne

DISTRIBUTORS

Arizona	Phoenix	Neil B.McGinnis Equipment Co.
California	Los Angeles	Cook Bros. Equipment Co.
	Oakland	" " "
Colorado	Denver	Colorado Builders Supply Co.
Idaho	Boise	Feenaughty Machinery Co.
	Idaho Falls	Parkinson Tractor Co.

Continued in next column

PIONEER ENGINEERING WORKS, INC. (CONTINUED)

Montana	Billings	Industrial Equipment Co.
	Great Falls	Normont Equipment Co.
	Kalispell	Westmont Tractor & Equipment Co.
	Missoula	" " "
Nevada	Reno	Pioneer Equipment Co. of Nevada
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Portland	Feenaughty Machinery Co.
Utah	Salt Lake City	Rental Equipment Co.
Washington	Seattle	Feenaughty Machinery Co.
	Spokane	" " "
Wyoming	Casper	Colorado Builders Supply Co.

PIPPIN CONSTRUCTION EQUIPMENT, INC.White River Junction
Vermont**PRODUCTS:** Pippin Excavators with Catch Basin, Rock Drill and Backfill Blade Attachments; Pippin Front End Loaders with capacity up to ½ yard; Pippin Angling Bull Dozer Blades with snow plow attachments.**FACTORY PERSONNEL**

California	Walnut Creek	1620 Orchard Lane	Geo.Wacker, Sls.Mgr.
Oregon	Portland	12923 NE Hancock	H.Hodges, Repr.

DISTRIBUTORS

Alaska	(Portland)	R.M.Wade Co.
California	Santa Ana	H.C.Shaw Co.
	Stockton	" " "
Colorado	Denver	Interstate Tractor Sales
Idaho (W)	(Portland)	R.M.Wade Co.
Oregon	Portland	" " "
Washington	(Portland)	" " "

PITMAN MANUFACTURING CO.300 West 79th Terrace
Kansas City 14, Missouri**PRODUCTS:** Cranes, truck-mounted; Pitman Hydra-Lift (3 ton) and Pitman Crane, Model 80 (4 ton); Giraffe — Aerial Platform, 40', 50' and 65'.**DISTRICT REPRESENTATIVE**

California	San Mateo	1226 Cobb St.	Steve Zorro
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DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Fresno	Edward R.Bacon Co.
	Los Angeles	Smith-Booth-Usher Co.
	Sacramento	Edward R.Bacon Co.
	San Francisco	" " "
Colorado	Denver	Western Machinery Co.
Idaho	Boise	Engineering Sales & Service, Inc.
Montana	Helena	Montana Power & Equipment Co.
New Mexico	Albuquerque	Winter-Weiss Co.
Oregon	Portland	Loggers & Contractors Mchy. Co.
Utah	Salt Lake City	H.H.Nielsen Co.
Washington	Seattle	Star Machinery Co.
	Spokane	" " "
	Seattle	Hatten Machinery Co.

PORTO PUMP, INC.19735 Rolston Street
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, jetting operations, fire fighting operations and various other applications requiring a portable pressure pump.**REPRESENTATIVE**

Washington	Seattle	Technical Sales Co.	E.F.Brady
		1731 First Ave.So.	

Western construction men value the WC Equipment Directory in making emergency contacts with equipment manufacturers and distributors!

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

THE PRIME-MOVER CO.
 Highway 61 East
 Muscatine, Iowa

PRODUCTS: Model 15A Prime-Mover; Powered Wheelbarrow Type Dump Hopper of 10 cu.ft.capacity; 50-inch Steel Grader Blade Attachment, gasoline-powered, gear-driven, takes 3/4 ton load; Model 30 Prime-Mover with hydraulic torque converter drive, 18 cu.ft. capacity, hauls 1-1/2 ton load.

FACTORY REPRESENTATIVE

Washington Seattle 8733 4th Pl. NE James A.Dougan

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	Los Angeles	Essick Machinery Co.
	Oakland	Ricker Machinery Co.
Colorado	Denver	Ray Corson Machinery Co.
Idaho	Boise	The Sawtooth Co.
New Mexico	Albuquerque	J.D.Coggins Co.
Nevada	Reno	Pioneer Equipment Co.
Oregon	Eugene	Loggers & Contractors Mchy. Co.
	Portland	
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Seattle	Universal Equipment Co.
	Spokane	Andrews Eght. Service of Wash., Inc.
Wyoming	(Salt Lake)	Rocky Mountain Machinery Co.

PRECO, INC.
 6300 E. Slauson Avenue
 Los Angeles 22, California

PRODUCTS: Back-Rippers; Dozer-Rippers; Automatic Blade Controls for Motor Graders.

AREA MANAGERS

California	Los Angeles	6300 E.Slauson Ave.	C.R.Pierce
Colorado	Denver	8425 W.1st Place	D.A.Zawolkow

DISTRIBUTORS

All Caterpillar Dealers

QUAKER PIONEER RUBBER DIVISION
 P.O. Box 791
 Pittsburg, California

PRODUCTS: Belting — Transmission, Conveyor and Elevator; Industrial Hose — wrapped and molded for air, water, steam, oil, auction, welding, garden hose; Packing — sheet packing, duck and rubber packing, press pads, chute lining; Matting — moulded and extruded rubber products; Tank and Pipe Rubber Lining; Specialty Rubber Products.

FACTORY BRANCHES

California	Los Angeles	4384 E.Bandini	D.E.Butler
	San Francisco	520 Fourth St.	H.T.Jackson

MANAGER, PACIFIC COAST SALES

California	Pittsburg	P.O.Box 791	J.H.Joyner
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DISTRIBUTORS

Colorado	Denver	Western Belting Co.
Oregon	Portland	Munnell & Sherrill, Inc.
Idaho	Boise	Intermountain Equipment Co.
	Pocatello	" " "
Washington	Spokane	" " "

"QUICK-WAY" TRUCK SHOVEL CO.
 2401 E. 40th Avenue
 Denver, Colorado

PRODUCTS: "Quick-Way" Truck Shovels and Attachments.

FACTORY BRANCHES

California	Los Angeles	10484 Lindbrook Dr.	D.C.Corner, Jr.
Colorado	Denver	155 Balsam St.	D.Wayne Wagers
Washington	Spokane	E.1507 Rockwell	Tom R.Engquist

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
	Fresno	Edward R.Bacon Co.
California	Los Angeles	Harron, Rickard & McCone Co.
	Oakland	Edward R.Bacon Co.
	Sacramento	" " "
	San Francisco	" " "
	Stockton	" " "
Colorado	Denver	H.W.Moore Equipment Co.
	Grand Junction	" " "
Idaho	Boise	Arnold Machinery Co., Inc.
	Idaho Falls	" " "
	(Salt Lake)	" " "
Montana	Billings	Montana Power & Equipment Co.
	Helena	" " "
New Mexico	Albuquerque	J.D.Coggins Co.
Oregon	Portland	Columbia Equipment Co.
Washington	Seattle	" " "
	Spokane	" " "
Wyoming	Casper	Keremi Tractor & Equipment Co.
	Cheyenne	" " "

QUINCY COMPRESSOR CO.
 217 Maine Street
 Quincy, Illinois

PRODUCTS: Air Compressors; Dry Vacuum Pumps.

WEST COAST DISTRIBUTOR — QUINCY COMPRESSOR

California	San Francisco	1185 Mission St.	Bernard Katz
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DEALERS

Arizona	Phoenix	Western Machinery Co.
	Fresno	Edward R.Bacon Co.
	Los Angeles	Essick Manufacturing Co.
	" "	Binks Manufacturing Co.
	" "	Sharpe Manufacturing Co.
	Modesto	Benson & Zimmerman
	Oakland	J.T.Cline, Quincy Compr. Service
	Redding	Rother Auto Parts
	Sacramento	Franklin Machinery Co.
	" "	Western Machinery Co.
	San Francisco	Edward R.Bacon Co.
	" "	Binks Manufacturing Co.
	" "	Coast Equipment Co.
	" "	Western Machinery Co.
Colorado	Denver	Gunderson-Taylor Machinery Co.
New Mexico	Albuquerque	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.
	" "	Olympic Supply Co.
	" "	Northwest Industrial Equipment Co.
	" "	Parts & Service
	Spokane	Western Machinery Co.

R.P.B. CORPORATION
 2751 E. 11th Street
 Los Angeles 23, California

PRODUCTS: Rapid Pavement Breakers (pneumatic).

DISTRIBUTORS

New Mexico	Albuquerque	J.D.Coggins Co.
Washington	Seattle	A.H.Cox & Co.

RAMSET FASTENING SYSTEM
 Winchester-Western Division
 Olin Mathieson Chemical Corp.
 12117 Berea Road
 Cleveland 11, Ohio

PRODUCTS: Powder-Actuated Tools; Fasteners and Powder Charges — Hammer-in Fastening Tools; Fasteners.

REGIONAL SALES MANAGER

California	Oakland	1600 16th St.	S.W.Winters
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DISTRICT SALES MANAGERS

California	Los Angeles	5016 E.Olympic Blvd.	Robt.Ernst
	" "	" "	Frank Mullen
	Oakland	1600 16th St.	R.Grosjean
	" "	" "	C.W.Morgan
Oregon	Eugene	1689 Olive St.	T.V.Williams

DISTRIBUTORS

Alaska	(Seattle)	Northern Commercial Co.
Arizona	Mesa	O'Malley Lumber Co.
	Phoenix	Baker-Thomas Co.
	" "	Entz-White Lumber Co.
	" "	O'Malley-Reed Lumber Co.
	" "	Thunderbird Sales Corp.
	Safford	Talley & Sons
	Tucson	Industrial Tool & Supply Co.
	Yuma	Mohawk Wholesale & Supply Co.
California	Bakersfield	Pioneer Mercantile Co.
	Compton	Crown Pipe & Supply Co.
	W.Compton	Thieme Construction Supplies
	Eureka	George C.Jacobs Co.
	Fresno	A.L.Young Machinery Co.
	Indio	Valley Lumber & Supply Co.
	Los Angeles	Andrey Company, Inc.
	" "	Mine & Mill Mchy. Co.
	" "	The Mantz Company
	" "	Zonne Electric Tool Co.
	Modesto	American Lumber Co.
	Monterey	Peninsula Saw Shop
	Oakland	Viking Supply Co.
	Sacramento	Rubber Products Co.
	" "	Sacramento Machinery Co.
	Salinas	Electric Supply of Salinas
	" "	Tynan Lumber Co.
	San Diego	Acme Tool & Supply
	" "	Construction Tool & Supply
	San Francisco	Elder Construction Supply Co.
	San Jose	Power Tool Mart
	Santa Ana	V.B.Anderson Co.
	Stockton	Delta Pipe & Supply Co.
	Ventura	Crow-Garrick Co.
	" "	Peoples Lumber Co.
	Whittier	V.B.Anderson Co.

Continued on next page

LMSET FASTENING SYSTEM (CONTINUED)

Colorado	Colorado Springs	Everett Lumber Co.
	Denver	Landes, Zachary & Peterson
	"	M.L. Foss, Inc.
	"	Union Supply Co.
	"	Central Electric Supply
	Grand Junction	Pacific & Western Industrial Supply
	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.
	Havre	Treasure State Supply
	Helena	Hanley Glass & Paint
	Great Falls	Fall Supply Co.
	Livingston	Builders Machinery Co.
	Missoula	Hub Electric Supply
	"	Missoula Mercantile Co.
Nevada	Reno	Kitchen Electric Supply Co.
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	Astoria	Fisher Brothers Co.
	Baker	Builders Supply Co.
	Coos Bay	W.J. Conrad Lumber Co.
	Eugene	John Warren Hardware
	Grants Pass	Rogue River Hardware Co.
	Klamath Falls	Swan Lake Moulding Co.
	Pendleton	Tum-A-Lum Lumber Co.
	Salem	Valley Welding Supply
Utah	Ogden	Shaw Supply Co.
	Salt Lake City	Arnold Machinery Co.
	"	Clyde G. Larsen
Washington	Aberdeen	Grays Harbor Equipment Co.
	Bellingham	J.M. Van Wickle
	Everett	Everett Hardware Co.
	Pasco	Lehl Electric Supply Co.
	Seattle	Cascade Distributors, Inc.
	Tacoma	Harold Bird, Inc.
	Yakima	Fred Fellows
Wyoming	Casper	Wyoming Builders Service Co.
	Cheyenne	Powers Builders Supply

J.P. RATIGAN, INC.
1213 Santa Fe Avenue
Los Angeles 21, California

PRODUCTS: Connecting Links; Swivel Hooks.

DISTRIBUTORS

California	Los Angeles	Bethlehem Supply Co.
	"	Emsco Manufacturing Co.
	"	Howard Supply Co.
	"	Republic Supply Co.
	Oakland	Howard Supply Co.
	"	Republic Supply Co.
	Torrance	National Supply Co.

THE READY POWER CO.
Power Plant Division
11231 Freud Avenue
Detroit 14, Michigan

PRODUCTS: Engine Generator Sets; Electric Sets - Diesel and Gasoline; Magnet Chargers; Engine Refrigeration Compressors.

DISTRICT MANAGERS

California	Huntington Park	Box 1205	Karl Mollendick
		State St. Sta.	
Washington	Seattle	1107 E. Pike St.	Geo. Hunsdorfer
	"	" " " "	Harold Thompson

DISTRIBUTORS

California	Fresno	Allied Equipment Co.
	Los Angeles	Brown-Bevis Industrial Eqp. Co.
	Oakland	Bay Cities Equipment, Inc.
	Sacramento	Sacramento Valley Tractor Co.
	San Diego	Southern Equipment & Supply Co.
Colorado	Denver	Hahn Equipment Co.
	Glenwood Springs	Elliott Equipment Co.
	Grand Junction	Hallam-Boggs Truck & Impl. Co.
Idaho	Boise	Intermountain Equipment Co.
	Pocatello	" " " "
Montana	Billings	Industrial Equipment Co.
	Butte	" " " "
	Kalispell	" " " "
	Livingston	" " " "
	Missoula	" " " "
Nevada	Reno	Nevada Equipment Service, Inc.

Continued in next column

THE READY POWER CO. (CONTINUED)

Oregon	Albany	Howard-Cooper Corp.
	Central Point	" " "
	Coquille	" " "
	Eugene	" " "
	Newport	" " "
	Portland	" " "
	Roseburg	" " "
Washington	Seattle	Fremont Electric Co.
	"	The Carrington Co.
	"	Howard-Cooper Corp.
	Spokane	Intermountain Equipment Co.

REESE ENGINEERING CO.
9517 E. Rush Street
El Monte, California

PRODUCTS: Hydraulic Loaders; Fork Lift Attachments; Angle Dozers; Backfill Blades; Jib Booms; Hydraulic Cylinders; Custom Work.

REISSER CORP.
P.O. Box 362
Blair, Nebraska

PRODUCTS: ELEGRADER - Elevating Grader Attachments.

DISTRIBUTORS

Alaska	Anchorage	Bashaw Equipment Co.
Arizona	Phoenix	Road Machinery Co.
California	Bakersfield	Crook Company
	Los Angeles	"
	Oakland	Blakemore Equipment Co.
	Sacramento	"
Colorado	Denver	Johnson-Tudor Co.
Montana	Billings	Western Construction Equipment Co.
	Great Falls	"
Nevada	Reno	Pioneer Eqp. Co. of Nevada
New Mexico	Albuquerque	Contractors Eqp. & Supply Co.
Oregon	Eugene	Loggers & Contractors Mch. Co.
	Portland	"
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Seattle	Western Tractor & Equipment Co.
	Spokane	Modern Machinery Co., Inc.
Wyoming	Casper	Moss Equipment & Supply Co.

REMINGTON ARMS CO., INC.
Broadmere Road
Stratford, Connecticut

PRODUCTS: Remington Model 455 Stud Driver; Remington "Mighty-Mite" Model 456 Stud Driver.

FACTORY BRANCHES

California	San Francisco	785 Market St.	D.L. Braum
Oregon	Portland	921 SW Washington	D.N. Weimer
Utah	Salt Lake City	Walker Bk. Bldg.	D.W. Flannigan

DISTRIBUTORS

Arizona	Phoenix	Waco-Scaffolding & Eqp. Co.
California	Los Angeles	Nelson Stud Welding, Div. of Gregory Industries, Inc.
	"	Waco-May Co.
	"	Warden Tool Co.
	San Francisco	Waco Scaffolding Div., Laurence Myers & Co.
	"	Warden-Swift Tool Co.
	San Leandro	Nelson Stud Welding, Div. of Gregory Industries, Inc.
Colorado	Denver	Hendrie & Bolthoff Co.
	"	Nelson Stud Welding, Div. of Gregory Industries, Inc.
Idaho	Boise	Waco Scaffolding & Eqp. Co.
Montana	Billings	Salt Lake Hardware Co.
New Mexico	Albuquerque	Billings Hardware Co.
Utah	Salt Lake City	Lively Equipment Co.
	"	General Electric Supply Co.
Washington	Seattle	Salt Lake Hardware Co.
	"	Seattle Hardware Co.

Seventeen out of 18 contractor readers save the WC Equipment Directory for year-long reference, value it highly in emergency contacts with equipment distributors and manufacturers!

C. I. T. finances installment sales of equipment for many Distributors

REO MOTORS, INC.
1331 South Washington
Lansing, Michigan

PRODUCTS: Gas Engines and Trucks.

FACTORY BRANCHES

California	Los Angeles	2315 E. Olympic Blvd.	R.A. Moon
	Oakland	24th & Cypress Sts.	R.H. Marable
Colorado	Denver	1950 31st St.	E.V. Andrews
New Mexico	Albuquerque	2401 4th St., N.W.	J.H. Bates
Oregon	Eugene	1585 W. 7th St.	F.S. Burks
Washington	Spokane	1124 N. Freya St.	P.J. Oldershaw

WESTERN REGIONAL MANAGER

California	Oakland	24th & Cypress St.	Wm. F. Sternberg
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DISTRIBUTORS AND DEALERS IN ALL PRINCIPAL CITIES

RHEEM AUTOMOTIVE CO.
601 S. Placencia Avenue
Fullerton, California

PRODUCTS: Rheem Beam Highway Guard Rail.

DISTRIBUTORS

Arizona	Phoenix	Arizona Hardware Co.
Colorado	Denver	Colorado Builders Supply Co.
Idaho	Boise	Starline Equipment Co.
Nevada	Sparks	Paul Tholl Co.
Oregon	Portland	Contractors Equipment Corp.
Utah	Salt Lake City	C.H. Jones Equipment Co.
Washington	Seattle	Sahlberg Equipment, Inc.

RICHMOND SCREW ANCHOR CO., INC.
816-838 Liberty Avenue
Brooklyn 8, New York

PRODUCTS: Engineered Tying Devices; Anchorages and Accessories for Concrete Construction.

WESTERN REGIONAL MANAGER

California	San Marino	1750 San Marino Ave.	Geo. E. Tupper
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DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
	Tucson	Ireland Steel & Specialties Co.
California	Bakersfield	Bakersfield Sandstone & Brick Co.
	E. Los Angeles	W.J. Burke & Co.
	Fresno	Healey & Popovich
	Sacramento	W.J. Burke & Co.
	San Francisco	" " "
Colorado	Denver	Ray Corson Machinery Co.
	Grand Junction	Independent Lumber Co.
Idaho	Boise	Allen Steel Supply Co.
	Idaho Falls	Max Ker & Son Lumber Co.
	Jerome	Cinder Products Co.
	Wallace	Coeur d'Alene Hdwe. & Fdry. Co.
Montana	Billings	Midland Materials Co.
	"	Stroup Hardware Co.
	Bozeman	Empire Building Materials, Inc.
New Mexico	Albuquerque	W.J. Burke & Co.
	Hobbs	Builders Supply, Inc.
Oregon	Portland	W.J. Burke & Co.
Utah	Salt Lake City	Intermountain Concrete Specialties
Washington	Seattle	W.J. Burke & Co.
Wyoming	Casper	Casper Concrete Co.

ROCKLAND ALLIED EQUIPMENT CO.
3778 West Colonial Drive
Orlando, Florida

PRODUCTS: Land Clearing Rakes; Tree-Dozer Booms; Stumping Heads; Brush Racks; Bulldozer Blades and Sand-piper Dredges.

DISTRIBUTORS

Alaska	Fairbanks	Herning Equipment Co.
Colorado	Denver	Power Equipment Co.
Montana	Billings	Industrial Equipment Co.
	"	Seltz Machinery Co.
	Sidney	Richland Machinery Co.
Nevada	Reno	Nevada Equipment Service, Inc.
Oregon	Eugene	Loggers & Contractors Mchy. Co.
	Portland	" " "
Washington	Seattle	A.H. Cox & Co.
	"	Hulse Machinery Co., Inc.

(All authorized tractor dealers for International, Allis-Chalmers, and Oliver in the 48 States).

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
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DISTRIBUTORS

Alaska	(Seattle)	The Carrington Co.
	"	Northern Commercial Co.
California	Burlingame	W.P. Wooldridge Co.
	Los Angeles	Pornaciari Co.
Colorado	Denver	Mine & Smelter Supply Co.
Idaho	Boise	Intermountain Equipment Co.
	Pocatello	"
Nevada	Reno	Sierra Machinery Co.
Oregon	Portland	Contractors Equipment Corp.
Utah	Salt Lake City	Salt Lake Hardware Co.
Washington	Seattle	Hallidie Machinery Co.

JOHN A. ROEBLING'S SONS CORP.
640 South Broad Street
Trenton 2, New Jersey

PRODUCTS: Wire Rope Strand and Assemblies; Wire Rope Slings; Electrical Wire and Cable; Tensioning Materials for prestressed concrete; Suspension Bridges and Cable; Tramways; Suspension Systems of all types.

FACTORY BRANCHES

California	Los Angeles	Manager	J.C. Barney
	San Francisco	"	G.C. Bukowsky
Colorado	Denver	"	G.P. Hays
Washington	Seattle	"	A.R. Robinson

ROGERS BROTHERS CORP.
Albion
Pennsylvania

PRODUCTS: Lowbed Heavy Duty Trailers.

DISTRIBUTORS

California	San Francisco	Coast Equipment Co., Inc.
Colorado	Denver	H.W. Moore
Idaho	Boise	Intermountain Equipment Co.
Montana	Billings	Montana Trailer Sales & Eqpt. Co.
	Missoula	Miller Machinery Co.
New Mexico	Albuquerque	J.D. Coggins Co.
Utah	Salt Lake City	Western Machinery Co.

ROSCO MANUFACTURING CO.
3118 Snelling Avenue
Minneapolis 6, Minnesota

PRODUCTS: Bituminous Distributors; Road Maintenance Units; Sweepers; Haul Tanks (Bituminous); Street Cleaners; Street Flushers; Water Sprinklers for Soil Stabilization; Asphalt Kettles; Burners; Road Rollers.

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	Los Angeles	Larson Equipment Co.
	San Francisco	FWD Pacific Co.
Colorado	Denver	H.W. Moore Equipment Co.
Idaho	Boise	The Starline Equipment Co.
	Idaho Falls	Parkinson Tractor Co.
Montana	Helena	Montana Power & Equipment Co.
	Missoula	Westmont Tractor & Equipment Co.
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	The Harry Cornelius Co.
Oregon	Portland	Contractors Equipment Corp.
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Seattle	A.H. Cox & Co.
	Spokane	Modern Machinery Co.
Wyoming	Casper	Studer Tractor & Equipment Co.

WESTERN CONSTRUCTION initiated and sponsors the famous "Dr. L. I. Hewes Award," the Western highway engineer's most coveted prize for achievement!

C. I. T. CORPORATION

120 Montgomery Street, San Francisco 416 West 8th Street, Los Angeles
Equitable Building, Portland

LOWE MANUFACTURING CO.14 West Third Street
Salesburg, Illinois**PRODUCTS:** Ro-way Overhead Doors and Electric Operators.**DISTRIBUTORS**

Arizona	Phoenix	Baker-Thomas Lime & Cement
	"	Clarence R. Yeager
Colorado	Colorado Springs	Colorado Overhead Door Co.
	Denver	Colorado Builders Supply Co.
Idaho	(Salt Lake)	Alder's
Montana	Billings	C. Ken Haynes
	Butte	Archie W. Adams
	Have	Treasure State Supply Co.
New Mexico	Albuquerque	Warren M. Rose Door Co.
	Artesia	Jay F. Vandeventer
Utah	Salt Lake City	Alder's
Wyoming	(Denver)	Colorado Builders Supply Co.

RUHR INDUSTRIES1411 Walnut Street
Philadelphia 2, Pennsylvania**PRODUCTS:** Ruhr Grapples — Model M-1, General Materials Handling; Model M-2, Caisson Diggers; Model M-3, Pulp Wood Handling (Jack Straw).**DISTRIBUTORS**

Oregon	Portland	Schnitzler Steel Products Co.
Washington	Seattle	Conrad Crellm Co.

SAFWAY STEEL PRODUCTS, INC.6228 West State Street
Milwaukee 13, Wisconsin**PRODUCTS:** Scaffolding; Adjustable Shores; Hoist Towers; Rolling Towers; Swing Staging; Material Platforms.**FACTORY BRANCHES**

California	Los Angeles	5875 Rodeo Rd.	G.R. Garsden
	San Diego	4810 Anna Ave.	M.J. Murphy

DISTRIBUTORS

Arizona	Phoenix	Baker-Thomas Lime & Cement Co.
California	Bakersfield	B.H. Skrable
	Fresno	Beatty Safway Scaffold Co.
	Monterey	C.L. Frost Co.
	Oakland	Beatty Safway Scaffold, Inc.
	San Francisco	" " " "
	San Jose	Beatty Safway Scaffold Co.
	Santa Rosa	" " " "
	Stockton	" " " "
	W. Sacramento	" " " "
Colorado	Denver	Allis Lee Equipment Co.
Idaho	Boise	Safway Scaffolds of Boise
Montana	Billings	Rental Equipment Co.
	Butte	Construction Materials Co.
Nevada	Reno	Beatty Safway Scaffold Co.
Oregon	Eugene	Safway Scaffold Co.
	Portland	Beatty Safway Scaffold Co. of Oregon
Utah	Salt Lake City	Lynn Hansen Scaffold Co.
Washington	Seattle	Beatty Safway Scaffold, Inc.
	Spokane	Safway Scaffolds, Inc. of Spokane
	Tacoma	Beatty Safway Scaffold, Inc.
	Yakima	Safway Scaffolding of Yakima, Inc.

THE SALEM TOOL CO.767 South Ellsworth Avenue
Salem, Ohio**PRODUCTS:** Salem Lades, Kettles and Skimmers; McCarthy Auger Drills; Trench Type Utility Drills; Truck Mounted and Self-Propelled Horizontal Highway Drills; Vertical 6" and 8" Drills; Mineral Recovery Drills.**DISTRIBUTORS**

Alaska	(Seattle)	The Carrington Co.
Arizona	Phoenix	Western Machinery Co.
California	San Francisco	Edward R. Bacon Co.
	Los Angeles	Smith-Booth-Usher Co.
Colorado	Denver	Union Supply Co.
Idaho	Boise	Intermountain Equipment Co.
Montana	Butte	Hall-Perry Machinery Co.
Nevada	Reno	Sierra Machinery Co.
New Mexico	Carlsbad	Carlsbad Supply Co.
Oregon	Portland	Clyde Equipment Co.
Utah	Salt Lake City	Western Machinery Co.
Washington	Seattle	The Carrington Co.
	"	Clyde Equipment Co.
	Spokane	Intermountain Equipment Co.

SALYER'S EQUIPMENT CO.728 E. Washington Blvd.
Los Angeles 21, California**PRODUCTS:** Generator Sets — diesel, gasoline and natural gas powered; Engine Cooling Systems; Automatic Engine Controls; Automatic Transfer Switches.**DISTRIBUTOR**

California	Los Angeles	Anderson-O'Brien Co.
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SANSTORM MANUFACTURING CO.1801 Santa Clara at H Street
Fresno 15, California**PRODUCTS:** Sanstorm Suction and Pressure Type Blast Cleaning Equipment and Accessories.**DISTRIBUTORS**

Arizona	Phoenix	Western Machinery Co.
California	Los Angeles	Garlinghouse-Fremont & Co.
	"	Smith-Booth-Usher Co.
	Oakland	Edward R. Bacon Co.
	Sacramento	" " " "
	San Diego	Kenton Equipment Co.
	San Francisco	Edward R. Bacon Co.
	"	Coast Equipment Co.
	Stockton	Guntert & Zimmerman Sales Div., Inc.
Colorado	Denver	Western Machinery Co.
Idaho	Boise	Engineering Sales & Service, Inc.
Montana	Billings	Montana Powder & Equipment Co.
	Helena	" " " "
New Mexico	Albuquerque	J.D. Coggins Co.
	"	Contractors Equipment & Supply
	"	Harry Cornelius Co.
Oregon	Portland	LaGrand 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.

SASGEN DERRICK CO.3101 Grand Avenue
Chicago 22, Illinois**PRODUCTS:** Derricks; Hoists; Winches; Liftamatics.**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**

California	Los Angeles	Smith-Booth-Usher Co.
	Millbrae	Hugh L. Davis
Colorado	Denver	Constructors Equipment Co.
Montana	Billings	Hall-Perry Machinery Co.
	Butte	" " " "
	Great Falls	" " " "
	Missoula	" " " "
Oregon	Portland	Clyde Equipment Co.
Washington	Seattle	" " " "
	Spokane	Intermountain Equipment Co.

SCHIELD BANTAM CO.Waverly
Iowa**PRODUCTS:** 3/4 cu. yd., 5-6-7-ton Crane Carriers; Crawler and Self-Propelled Mounted Power Cranes, Draglines, Clamshells, Trench Hoes, Grapples, Backfillers, Pile Drivers, Magnet Cranes.**DISTRICT MANAGERS**

California	San Fernando	10451 Peach Ave.	John C. Carlile
Washington	Spokane	P.O. Box 849	R.A. Otterness
		2316 Manito Blvd.	

DISTRIBUTORS

Alaska	Anchorage	Yukon Equipment, Inc.
	Fairbanks	" " " "
	Ketchikan	" " " "
Arizona	Phoenix	Neil B. McGinnis Equipment Co.
California	Fresno	Contractors Equipment & Supply Co.
	Los Angeles	Cook Bros. Construction Mch. Co.
	"	Essick Machinery Co.
	San Francisco	Standard Machinery Co.
	Santa Ana	Essick Machinery Co.
Colorado	Denver	Power Equipment Co.
	Grand Junction	" " " "
Idaho	Boise	Engineering Sales Service, Inc.
Montana	Billings	Industrial Equipment Co.
	Great Falls	Power Equipment Co.
Nevada	Elko	A-D Machinery Co.
	Reno	Reno Equipment Sales Co.
New Mexico	Albuquerque	Harry Cornelius Co.
	Roswell	Smith Machinery Co., Inc.
Oregon	Medford	Cal-Ore Machinery Co.
	Portland	Wood Tractor Co.
Utah	Salt Lake City	Kimball Equipment Co.
Washington	Seattle	Western Tractor & Equipment Co.
	Spokane	Modern Machinery Co., Inc.
Wyoming	Casper	Studer Tractor & Equipment Co.

More of the West's County equipment superintendents read
WESTERN CONSTRUCTION than any other construction magazine.

SCHRAMM, INC.
West Chester
Pennsylvania

PRODUCTS: Air Compressors; Pneumatractors; Rotadrills;
Boosters; Sump Pumps, Tools.

FACTORY BRANCHES

California	Los Angeles	846 E. 6th St.	Karl S. Burle
	San Francisco	1315 Howard St.	Donald M. Thomson

DISTRICT REPRESENTATIVE

Oregon	Portland	6915 SW 68th Ave.	M. L. Woodford
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DISTRIBUTORS

Arizona	Phoenix	Neil B. McGinnis Co.
California	Bakersfield	Kern County Equipment Co., Inc.
	El Cajon	Kroeger Equipment Co.
	El Cerrito	Tool Equipment Rental
	Eureka	Eureka Boiler Works
	Fresno	Haire Murray Co.
	Huntington Park	Fred E. Paugh, Inc.
	King City	Farmers Mercantile Co.
	Long Beach	Long Beach Welders Supply
	Los Angeles	Schramm, Inc.
	" "	Acme Rents
	" "	Gordon Duff
	" "	Harron, Rickard & McCone
	" "	Larson Equipment Co.
	" "	Martin Supply Co.
	Oakland	Mechanics Tool & Supply Co.
	Porterville	Porterville Equipment Rental
	Redding	Gerlinger Steel & Supply Co.
	Sacramento	Sacramento Wheel Service
	Salinas	Farmers Mercantile Co.
	San Francisco	Contractors Machinery Co.
	" "	Monarch Supply Co.
	" "	Robinson Equipment Co.
	" "	Ridley Co.
	" "	Schramm, Inc.
	" "	Wade's Equipment Repair
	San Jose	Rent Rite Equipment Rentals
	Van Nuys	Valley Trailer Rentals
	Watsonville	Farmers Mercantile Co.
Colorado	Denver	H.W. Moore Equipment Co.
	" "	Well Completions, Inc.
	Durango	H.W. Moore Equipment Co.
	Grand Junction	" " " "
	Boise	Engineering Sales Service, Inc.
	Billings	Montana Powder & Equipment Co.
	Great Falls	" " " "
	Helena	" " " "
	Misoula	" " " "
	Reno	C.D. Roeder Equipment Co.
	Albuquerque	Big Three Welding Supply Co.
	Portland	Contractors Equipment Corp.
	Seattle	Universal Equipment Co.
	Spokane	General Machinery Co.
Wyoming	Mills	Teton Tool Co.

SCREEN EQUIPMENT CO., INC.
1754 Walden Avenue
Buffalo 25, New York

PRODUCTS: Vibrating Screens.

DISTRIBUTORS

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	" " " "
New Mexico	(Salt Lake)	National Equipment Co.
Nevada	(Oakland)	Cheney Machinery Sales & Parts
	Salt Lake City	National Equipment Co.
Utah		Western Machinery Co.
Washington	Spokane	Western Construction Equipment Co.
Wyoming	(Billings)	" " " "

SEAMAN-ANDWALL CORP.
Milwaukee 1
Wisconsin

PRODUCTS: Pulvi-Mixer; Trav-L-Plant; Steel and Pneumatic
Rollers; Pulvi-Breaker; Pulvi-Loader; Century
Cement and Material Spreaders; Vibro-Joint Cutter.

ZONE MANAGERS

Arizona	Mesa	508 N. Robson St.	George Blewer
California	San Carlos	1717 Howard St.	Jack Lumley

DISTRIBUTORS

Arizona	Mesa	Lyle E. Trimble, Inc.
California	Bakersfield	Lawless Brothers
	Fresno	Pearless Tractor & Equipment Co.
	Los Angeles	Brown-Bevis Industrial Eqpt. Co.
	San Francisco	Western Traction Co.
	Denver	Liberty Trucks & Parts Co.
	Billings	Industrial Equipment Co.
	Kaliispell	Treasure State Equipment Co.
	Great Falls	Normont Equipment Co.
	Albuquerque	J.D. Coggins Co.
	Portland	Columbia Equipment Co.
	Salt Lake City	Western Machinery Co.
	Seattle	Sahlberg Equipment, Inc.

SEAMAN-GUNNISON CORP.
2763 South 27th Street
Milwaukee 15, Wisconsin

PRODUCTS: Duo-Products Division — Duo-Factors, Duo-
Graders, Duo-Scrapers and Duo-Stabilizers.
Gunnison Division — Asphalt Distributors,
Asphalt Supply Tanks, Maintenance Distributors,
Water Sprinklers and Street Flushers.

DISTRIBUTORS — DUO-PRODUCTS DIVISION

Arizona	Phoenix	State Tractor & Equipment Co.
California	Bakersfield	Kern County Equipment Co.
	Escondido	Southern Equipment & Supply Co.
	Five Points	Allied Equipment Co.
	Fresno	" " "
	Madera	" " "
	Marysville	Sacramento Valley Tractor Co.
	Oakland	Bay Cities Equipment Co.
	Oxnard	Maulhardt Equipment Co.
	Redding	Sullivan & Crowe Equipment Co.
	Reedley	Allied Equipment Equipment Co.
	Riverside	Braman-Dickerson Co., Inc.
	Sacramento	Sacramento Valley Tractor Co.
	Salinas	Farmers Mercantile Co.
	San Diego	Southern Equipment & Supply Co.
	San Jose	Valley Equipment Co.
	Santa Maria	Hanson Equipment Co.
	Stockton	Delta Tractor Co.
	Stratford	Orton's Equipment Co., Inc.
Colorado	Denver	C.O. Johnson, Inc.
Montana	Great Falls	Power Equipment Co.
Nevada	Las Vegas	Clark County Wholesale Merc. Co.
Oregon	Portland	Cramer Machinery Co.
Utah	Salt Lake City	The Lang Co.
Washington	Spokane	Modern Machinery Co. (also covers Idaho)

DISTRIBUTORS — GUNNISON DIVISION

Arizona	Phoenix	Arizona Cedar Rapids Co.
California	Salinas	Farmers Mercantile Co.
Colorado	Denver	Power Equipment Co.
	Grand Junction	" " "
Idaho	Boise	Southern Idaho Equipment Co.
	Idaho Falls	" " " "
	Twin Falls	" " " "
	(Spokane)	Ferris Equipment Co.
Montana	Billings	Seltz Machinery Co., Inc.
Nevada	(Salt Lake)	The Lang Co.
New Mexico	Albuquerque	N.C. Ribble Co.
Utah	Salt Lake City	The Lang Company
Washington	Seattle	Sahlberg Equipment, Inc.
	Spokane	Ferris Equipment Co.
Wyoming	Casper	Moss Equipment & Supply Co.
	(Billings)	Seltz Machinery Co., Inc.
	(Salt Lake)	The Lang Co.

SELMA TRAILER & MANUFACTURING CO.
3111 Highway 99
Selma, California

PRODUCTS: Trailers — Tilt Bed, Equipment, Compressor,
Welder, Hydraulic, Tank and Special Construction
Trailers of all kinds.

SHAWNEE MANUFACTURING CO., INC.
1947 North Topeka Avenue
Topeka, Kansas

PRODUCTS: Angle Dozers; Backhoes; Bulldozers; Ditchers;
Front End Loaders; Trench Hoes; Rear Blades;
Hydro-Clams; Scrapers.

DISTRIBUTORS

Alaska	Palmer	Anderson & Smith Equipment Co.
New Mexico	(Dallas)	The Southern Plow Co.
Washington	Spokane	Farm Aid Equipment Co., Inc. (for Arizona, California, Colorado, Idaho, Montana, Nevada, Oregon, Utah, Washington and Wyoming)

WAREHOUSES

California	Gardena	17028 S. Figueroa
Montana	Billings	1st Ave. North & 15th St.
Utah	Ogden	1123 Wall Avenue

There are eleven natural marketing areas in the West — Get good
distributors in all eleven areas, work with them—then make the
distributor's selling job easier, more productive, with advertising
in WC!

SHERMAN PRODUCTS, INC.
300 West 14 Mile Road
Royal Oak, Michigan**PRODUCTS:** Power Diggers; Fork Lifts; Front End Loaders; Reversing Transmission; Power Steering.**WESTERN ZONE MANAGER**

California San Francisco Box 481 J.W.Greenia

DISTRIBUTORS

Alaska	(Portland)	Columbia Tractor & Implement Co.
Arizona	(Los Angeles)	Hight-Thompson, Inc.
California	Los Angeles	"
Colorado	Denver	McCarty-Sherman Distributing Corp.
Idaho	(Salt Lake)	Intermountain Ford Tractor Co.
Montana	Billings	Wymont Tractor & Equipment Co.
Nevada	(Los Angeles)	Hight-Thompson, Inc.
New Mexico	(Denver)	McCarty-Sherman Distributing Corp.
Oregon	Portland	Columbia Tractor & Implement Co.
Utah	Salt Lake City	Intermountain Ford Tractor Co.
Washington	(Portland)	Columbia Tractor & Implement Co.
Wyoming	(Denver)	McCarty-Sherman Distributing Corp.

HUNK MANUFACTURING CO.460 Auto Avenue
Lucy, Ohio**PRODUCTS:** Graders; Snow Plows; Sawtooth (serrated); Bulldozer and Scraper Blade Cutting Edges for all makes of road construction and maintenance equipment.**IMPLICIT ENGINEERING CO.**Oak Street
Grand, Michigan**PRODUCTS:** Vibrating Screens; Grizzly Feeders; Scalpers; Simpli-Flo Two Bearing Screens; Horizontal Screens; Oscillating Conveyors; Dewatering Wheels.**SALES ENGINEER**

California El Monte 2226 N.Rosemead Blvd. R.A.Aleshire

DISTRIBUTORS

Arizona	Phoenix	Arizona Equipment Sales, Inc.
California	Prescott	Arizona Mining Supply Corp.
	Los Angeles	Brown-Bevis Industrial Eqpt. Co.
	San Francisco	Standard Machinery Co.
Colorado	Denver	Patten Engineering Co.
Idaho	Pocatello	Rocky Mountain Machinery Co.
Montana	Billings	Industrial Equipment Co.
	Kaliapell	Treasure State Equipment Co.
	Missoula	"
Oregon	Portland	Columbia Equipment Co.
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Seattle	Columbia Equipment Co.
	Spokane	Modern Machinery Co.

SKAGIT STEEL & IRON WORKSSedro-Woolley
Washington**PRODUCTS:** General Utility Hoists; Winches; Windlasses; Derricks.**FACTORY BRANCH**

Oregon Eugene Skagit, Inc. of Oregon

DISTRIBUTORS

Arizona	Phoenix	State Tractor & Equipment Co.
California	Chico	Sierra Tractor & Equipment Co.
	Eureka	Brizard-Matthews Machinery Co.
	Los Angeles	Smith-Booth-Usher Co.
	Napa	Berglund Tractor & Equipment Co.
	Oxnard	Wallace Machinery Co.
	Redding	Sierra Tractor & Equipment Co.
	Santa Rosa	Berglund Tractor & Equipment Co.
	Willits	Berglund Tractor & Equipment Co.
Colorado	Denver	Western Machinery Co.
	Grand Junction	S & M Supply Co.
	"	Western Machinery Co.
Montana	Billings	Seitz Machinery Co.
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	R.L.Harrison Co., Inc.
Oregon	Arlington	Empire Machinery Co.
	Astoria	Halton Tractor Co.
	Athens	Empire Machinery Co.
	Grants Pass	Cascade Industrial Supply, Inc.
	Heppner	Empire Machinery Co.
	Klamath Falls	Cascade Industrial Supply, Inc.
	LaGrande	Inland Machinery Co.
	Pendleton	Empire Machinery Co.
	Portland	Halton Tractor Co.
	Salem	"

Continued in next column

SKAGIT STEEL & IRON WORKS (CONTINUED)

Washington	Longview	"	"	"
	Seattle	Collins Machinery Co.		
	"	Northern Commercial Co. (& Alaska)		
	"	Star Machinery Co.		
	"	Washington Machinery Co.		
	Spokane	Inland Diesel & Machinery Co.		
	Wenatchee	Columbia Tractor Co.		

SKIL CORPORATION5033 Elston Avenue
Chicago 30, Illinois**PRODUCTS:** Portable Electric & Pneumatic Tools; Saws; Drills; Sanders; Planes; Drivers and Nut Runners; Grinders; Hammers; Shears.**WESTERN FACTORY BRANCHES**

California	Los Angeles	Branch Manager	Paul Jones
	San Francisco	"	Paul O. Watts
Colorado	Denver	"	J. Edw. Watwood
Oregon	Portland	"	Bart Macomber
Washington	Seattle	"	Hank Linder
	Spokane	"	Byron Hoffman

THE SKOOKUM COMPANY, INC.8504 North Crawford Street
Portland 3, Oregon**PRODUCTS:** All types of blocks and forgings that are used with wire rope, standard and custom made. Skookum will build any type forging or block to fill individual requirements; The Skookum Cold Flow Press.**FACTORY PERSONNEL**

Oregon	Portland	8504 N.Crawford
	K.L.Wernsing	Vice President & Sales Manager
	Howard Wilson	District Sales Representative
	Dick Lyons	"

SMITH ENGINEERING WORKS532 East Capitol Drive
P.O. Box 723
Milwaukee 12, Wisconsin**PRODUCTS:** Telamith Gyrotory Breakers; Jaw Crushers; Gyra-sphere Crushers; Intercone Crushers; Roll Crushers; Pulsators; Vibro-King Screens; Rotary Grizzlies; Hercules and Standard Rotary Screens; Super-Scrubbers; Screw Rewashers; Sand Classifiers; Sand Tanks; Sand Drags; Feeders; Apron Feeders; Elevators and Portable Crushing and Screening Plants.**DISTRICT MANAGERS**

California	Los Angeles	1950 Santa Fe Ave.	R.G.Worton
Oregon	Portland	1631 NW Thurman	Wm.F.McConnell

DISTRIBUTORS

Arizona	Phoenix	Lee Redman Equipment Co.
California	Los Angeles	Essick Machinery Co.
	San Francisco	Mines Engineering & Eqpt. Co.
	Denver	Constructors Equipment Co.
Colorado	Boise	The Statline Equipment Co.
Idaho	(San Francisco)	Mines Engineering & Eqpt. Co.
Nevada	(Salt Lake)	Foulger Equipment Co.
Montana	Billings	Westate Machinery Co.
	Helena	Caird Engineering Works
New Mexico	Albuquerque	Contractors Eqpt. & Supply Co.
Oregon	Portland	Clyde Equipment Co.
Utah	Salt Lake City	Foulger Equipment Co.
Washington	Seattle	Clyde Equipment Co.
	Spokane	General Machinery Co.

GORDON SMITH & CO., INC.528 College Street
Bowling Green, Kentucky**PRODUCTS:** Portable and Stationary Air Compressors.**WESTERN REPRESENTATIVE**

California Whittier 348½ N.Greenleaf Ave. Lee J.Prues

DISTRIBUTORS

Arizona	Phoenix	Arizona Cedar Rapids Co.
California	Los Angeles	Mine & Mill Machinery Co.
Idaho	Boise	Starline Equipment Co.
Nevada	Las Vegas	Inland Service & Supply Co.
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Medford	Cal-Ore Machinery Co.
Utah	Salt Lake City	C.H.Jones Equipment Co.

**C. I. T. finances installment sales
of equipment for many Distributors**

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 OFFICE

California San Francisco 68 Post Street PH: GA 1-5582
Harry A. Doell Western District Manager

DISTRICT MANAGER

California Temple City 9602 E. Las Tunas Blvd., P.O. 397
M.T. Bramman

SALES REPRESENTATIVES

Arizona	Phoenix	Steel & Engineering Products Co.
California	Los Angeles	W.J. Beckett Co.
	San Francisco	Trident Engineering Co.
Colorado	Denver	Harry J. Glass & Associates
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: Portable Concrete Mixers; Stationary and Tilting Concrete Mixers; Truck Mixers and Agitators.

DISTRICT SALES REPRESENTATIVE

California Oxnard 404 W. Juniper G.M. Lott

DISTRICT SERVICE REPRESENTATIVE

California Oxnard 104 W. Flr Harold Rataczak

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	Los Angeles	Essick Manufacturing Co.
	Oakland	The Brose Co.
Colorado	Denver	Constructors Equipment Co., Inc.
Montana	Helena	Montana Powder & Equipment Co.
New Mexico	Albuquerque	R.L. Harrison Co., Inc.
Oregon	Portland	Clyde Equipment Co.
Utah	Salt Lake City	Lund Machinery Co.
Washington	Seattle	Clyde Equipment Co.
	Spokane	General Machinery Co.
Wyoming	Casper	Studer Tractor & Equipment Co.

SOILTEST, INC.
4711 West North Avenue
Chicago 39, Illinois

PRODUCTS: Testing Equipment — Soil, Concrete and Asphalt Field and Laboratory Test Apparatus.

DISTRIBUTORS

California	Los Angeles	Pacific Scientific Co.
	San Francisco	" " "
Oregon	Portland	" " "
Washington	Seattle	" " "

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.

SONOAIRDUCT — Fibre forms for heating ducts.

FACTORY BRANCH

California Los Angeles 5955 So. Western Ave.
J.D. Watford Resident Sales Manager
F.H. Crouch Production Manager
W.J. Matteson Sales Engineer

DISTRIBUTORS — SONOTUBES & SONOVOID

Alaska	(Los Angeles)	Sonoco Products Co.
Arizona	Phoenix	Baker-Thomas-Woolsey, Inc.
California	Los Angeles	W.J. Burke & Co.
	Sacramento	" " " "
	San Francisco	" " " "
Colorado	Denver	K.C. Construction Supply Co.
Idaho (N)	(Portland)	W.J. Burke & Co.
(S)	(Salt Lake)	Intermountain Concrete Specialties
Montana (W)	(Seattle)	W.J. Burke & Co.
(E)	(Denver)	K.C. Construction Supply

Continued in next column

SONOCO PRODUCTS CO. (CONTINUED)

Nevada	(San Francisco)	W.J. Burke & Co.
New Mexico	Albuquerque	" " " "
Oregon	Portland	" " " "
Utah	Salt Lake City	Intermountain Concrete Specialties
Washington	Seattle	W.J. Burke & Co.
Wyoming	(Denver)	K.C. Construction Supply Co.

SONOAIRDUCT DISTRIBUTORS

Arizona	Phoenix	Baker-Thomas-Woolsey, Inc.
California (S)	Los Angeles	W.J. Burke & Co.
(N)	San Francisco	Tay-Holbrook, Inc.
Idaho	Boise	Anderson's, Inc.
Nevada	Reno	Hasco Heating & Air Conditioning
Oregon	Eugene	Peerless Pacific
	Portland	" " "
Utah	Salt Lake City	Armstrong Supply

SOUTHWEST WELDING & MFG. CO.
3201 South Mission Road
Alhambra, California

PRODUCTS: Compaction Rollers; Sheepfoot Rollers; Rippers; Sprinkler Tanks; Scrapers; Bottom Dump Wagons.

SPEARS-WELLS MACHINERY CO.
1832 West Ninth Street
Oakland 20, California

PRODUCTS: Road and Airport Construction and Maintenance Equipment.

DISTRIBUTORS

California	Los Angeles	Crook Company
	Oakland	Spears-Wells Machinery Co.
Nevada	Reno	Sierra Machinery Co.
Oregon	Portland	Cramer Machinery Co.
Utah	Salt Lake City	Arnold Machinery Co.

STANCO MANUFACTURING & SALES, INC.
1931 Pontius Avenue
Los Angeles 25, California

PRODUCTS: Truck Cranes; Pumps; Portable Rock Drills and Breakers; Swedish Drill Steel; Drill Steel Grinders; Diamond Drills.

DISTRIBUTORS

Alaska	Fairbanks	The Carrington Co.
Arizona	Phoenix	D.W. Jaquays & Co.
		Min-A-Con Equipment Co.
California	Bakersfield	Crook Company
	Berkeley	West Coast Engine & Eqt. Co.
	Los Angeles	Mine & Mill Machinery Co.
	"	Precision Refrigeration Co.
	Pomona	Win Ward Co.
	San Diego	" " "
	San Francisco	C.H. Bull Co.
	Vernon	Crook Company
Colorado	Denver	Constructors Equipment Co., Inc.
	"	Denver Machine Shop
	"	Waukesha Engine & Eqt. Co.
	Grand Junction	S & M Supply Co.
Idaho	Boise	Engineering Sales Service, Inc.
Montana	Butte	Butte Machinery Co.
Nevada	Reno	Reno Equipment Sales Co.
New Mexico	Albuquerque	J.D. Coggins Co.
	"	Cummins Rio Grande Sales & Service
	"	Universal Mining & Milling Co.
Oregon	Grants Pass	Redwoods Supply Co.
	Medford	Cal-Ore Machinery Equipment Co.
	Portland	Balzer Machinery Co.
Utah	Salt Lake City	Wasatch Equipment Co.
Washington	Seattle	Andrews Machinery of Wash., Inc.
	"	The Carrington Co.
	"	Equipment Sales & Service
Wyoming	Spokane	George E. Failing Co.
	Casper	Waukesha Engine & Equipment Co.

STANDARD STEEL CORP.
5001 South Boyle Avenue
Los Angeles 58, California

PRODUCTS: Asphalt Plants; Aggregate Batching Plants; Cement Batching Plants.

DISTRIBUTORS

Colorado	Denver	Faris-Moritz Equipment Co.
New Mexico	Albuquerque	N.C. Ribble
Utah	Salt Lake City	The Lang Co.
Washington	Seattle	Washington Machinery Co.

C. I. T. CORPORATION

120 Montgomery Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

STANDARD STEEL WORKS, INC.
 16th & Howell Avenue
 North Kansas City 16, Missouri

PRODUCTS: Bituminous Distributors; Maintenance Distributors; Tar Kettles; Road Brooms; Gravel Spreaders; Street Flushers; Asphalt Supply Tanks; Asphalt Tools; 2½ ton Tandem Rollers.

DISTRIBUTORS

Alaska	Anchorage	Craig Taylor Eqpt. & Supply Co.
Arizona	Phoenix	Road Machinery Co.
California	Los Angeles	A.M. Donaher & Son
	San Francisco	Western Traction Co.
Colorado	Denver	McKelvy Machinery 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.
Oregon	Portland	Columbia Equipment Co.
Utah	Salt Lake City	Atlas Equipment Co.
Washington	Seattle	Columbia Equipment Co.
Wyoming	Cheyenne	Keremi Tractor & Equipment Co.

STEPHENS-ADAMSON MANUFACTURING CO.

 2227 East 37th Street
 Los Angeles 58, California

PRODUCTS: 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 BRANCH MANAGERS

California	San Francisco	145 Mission St.	R.J. Cooper
Oregon	Portland	1007 E. Burnside	P.R. Hines
Utah	Salt Lake City	210 W. 33rd So.	Ray Nelson
Washington	Seattle	714 Joseph Vance Bldg., 1402 3rd St.	Dan A. Lyons

STERLING MACHINERY CO.

 1950 Santa Fe Avenue
 Los Angeles 12, California

PRODUCTS: Pumps — Centrifugal, Diaphragm, Power and Sump. Hoists — Contractors, Material Handling

DISTRIBUTORS

Arizona	Phoenix	Pratt-Gilbert Hardware Co.
	Tucson	F. Ronstadt Hardware Co.
	Yuma	Hartnett & Braden Tractor Co.
California	Bakersfield	Janco Pump & Engineering Co.
	Los Angeles	American Pump Co.
	" "	Peerless Pump Div., Food Mchy. & Chemical Corp.
	Oakland	Pacific Pumping Co.
	San Francisco	Charles E. Lowe Co.
Colorado	Denver	H.W. Moore Equipment Co.
Idaho	Boise	Boise Implement Co.
	Idaho Falls	Parkinson Tractor Co.
Montana	Billings	Billings Pipe & Supply
	Missoula	Westmont Tractor & Equipment Co.
New Mexico	Albuquerque	New Mexico Builders Supply Co.
	Elunice	United Supply & Manufacturing Co.
	Hobbs	" " " " " "
	Lovington	" " " " " "
Oregon	Portland	Pump, Pipe & Power Co.
Utah	Salt Lake City	Nickerson Pump & Machinery Co., Inc.
Washington	Seattle	The Carrington Co.
	" "	Cascade Machinery Co.
	" "	Modern Machinery Co., Inc.
	" "	Pacific Hoist & Derrick Co.
	" "	Modern Machinery Co., Inc.
Wyoming	Spokane	Sheridan Iron Works, Inc.
	Sheridan	" " " " " "

STOW MANUFACTURING CO.

 443 State Street
 Binghamton, New York

PRODUCTS: Concrete Vibrators; Concrete Vibrating Screeds; Concrete Vibrating Sced Packages; Rotary Trowels; Portable Concrete Grinding Machines and Accessories; Flexible Shafts; Flexible Shaft Take-Off Drives for Dump Trailers.

REGIONAL REPRESENTATIVES

California	Los Angeles	230 E. Anaheim Blvd.	Walter Humes
	San Francisco	445 Bryant St.	A.C. Cope
Oregon	Portland	35 SW First Ave.	B. Rutherford
Washington	Seattle	1954 First Ave. So.	B. Rutherford

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STOW MANUFACTURING CO. (CONTINUED)
DISTRIBUTORS

Alaska	Anchorage	Bashaw Equipment Co.
Arizona	Phoenix	Neil B. McGinnis Co.
California	Los Angeles	H.P. Kingsley Co.
	Sacramento	W.J. Burke & Co.
	San Diego	Acme Tool & Equipment Co.
	San Francisco	A.R. Reid Co.
	San Luis Obispo	Farmers Hardware & Eqpt. Co.
Colorado	Denver	King & East Machinery Corp.
Idaho	Boise	Starline Equipment Co.
Montana	Billings	Industrial Equipment Co.
	Butte	Hall-Perry Machinery Co.
	Great Falls	Carl Weisman & Sons
	Kalispell	Treasure State Equipment Co.
	Missoula	Westmont Tractor & Equipment Co.
New Mexico	Albuquerque	W.J. Burke & Co.
Oregon	Portland	" " " " " "
Utah	Salt Lake City	J.T. Holland Co.
Washington	Seattle	W.J. Burke & Co.
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; Feeders; Concentrating Tables.

DISTRIBUTORS

Arizona	Phoenix	O.S. Stapley
California	Los Angeles	Garlinghouse, Fremont Co.
	Oakland	Straub Manufacturing Co.
	Denver	Union Supply Co.
Colorado	(Oakland)	Straub Manufacturing Co.
Nevada	(Denver)	Union Supply Co.
New Mexico	Portland	Contractors Equipment Co.
Oregon	Salt Lake City	Lund Machinery Co.
Utah	Seattle	Washington Machinery Co.
Washington	Spokane	" " " " " "

SUPERIOR CEMENT TOOL CORP.

 11616 Wright Road
 Lynwood, California

PRODUCTS: Cement Finishing Machines.

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
	" "	State Tractor & Equipment
	Tucson	" " " " " "
	Yuma	Yuma Builders Supply
California	Fresno	Contractors Equipment & Supply
	" "	George M. Philpott Co., Inc.
	N. Hollywood	Oliphant Brothers
	Huntington Park	Thrallkill 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	George M. Philpott Co.
	Santa Ana	Essick Manufacturing Co.
	" "	Orange County Equipment
	Temple City	Concrete Specialties
	Venice	Great Western Equipment
Colorado	Denver	Universal Co.
Idaho	Boise	Contractors Equipment & Supply
	" "	Safway Scaffolds Co.
	" "	Blystone Equipment Co.
Nevada	Las Vegas	J.D. Coggins Co.
New Mexico	Albuquerque	George M. Philpott Co., Inc.
Oregon	Portland	Contractors Equipment & Supply
Utah	Salt Lake City	Hatten Machinery Co.
Washington	Seattle	Universal Co.
	Spokane	Ace Sand & Gravel
	" "	Concrete Supplies

There are two natural regions in the national construction market —the West—the East. WESTERN CONSTRUCTION is first choice in the Western half!

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

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	Building Specialties Supply
California	Los Angeles	Thomas Concrete Accessory Co.
	Sacramento	A.W. Burrows
Idaho	Caldwell	General Steel Erectors, Inc.
	Idaho Falls	Ready-to-Pour Concrete Co.
	Pocatello	Lumber Dealers Supply
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.

THE SUPERIOR EQUIPMENT CO.
 Box 30
 Bucyrus, Ohio

PRODUCTS: Tractor Mounted Swing Cranes; Side Booms; Erection Booms; Angle Fillers; Bucket Backfillers; Pipe Tongs; Pipe Dollies; Pipe Welding Clamps.

DISTRIBUTORS

Alaska	Fairbanks	The Carrington Co.
	Nome	" " " "
Arizona	Phoenix	State Tractor & Equipment Co.
	Tucson	F. Ronstadt Hardware Co.
California	Eureka	Howard Cooper Corp. of Calif.
	Five Points	Allied Equipment Co.
	Fresno	" " " "
	Los Angeles	Brown-Bevis Industrial Eqpt. Co.
	Madera	Allied Equipment Co.
	Oakland	Bay Cities Equipment, Inc.
	Redding	Howard Cooper Corp. of Calif.
	Reedley	Allied Equipment Co.
	Riverside	Braman-Dickerson Co., Inc.
	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	" " " "
	Grand Junction	" " " "
Idaho	Boise	Intermountain Equipment Co.
	Pocatello	" " " "
Montana	Billings	Industrial Equipment Co.
	Great Falls	Power Equipment Co.
	Kaliispell	Treasure State Equipment Co.
	Missoula	" " " "
Nevada	Reno	Tractor Equipment Co.
New Mexico	Albuquerque	J.D. Coggins Co.
	Farmington	" " " "
Oregon	Albany	Howard Cooper Corp.
	Central Point	" " " "
	Coquille	" " " "
	Eugene	" " " "
	Pendleton	Pendleton Grain Growers, Inc.
	Portland	Howard Cooper Corp.
	Roseburg	" " " "
Utah	Salt Lake City	The Lang Co., Inc.
Washington	Seattle	The Carrington Co.
	"	Howard Cooper Corp.
	Spokane	Modern Machinery Co., Inc.
Wyoming	Casper	Keremi Tractor & Equipment Co.
	Cheyenne	" " " "

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 Eqpt. Co.
	San Francisco	Krogh Pump & Machinery Co.
Colorado	Denver	Western Machinery Co.
Oregon	Portland	Loggers & Contractors Mch. Co.
Utah	Salt Lake City	Western Machinery Co.
Washington	Seattle	Pacific Hoist & Derrick Co.
	Spokane	Western Machinery Co.

SUPERIOR SCAFFOLD CO.
 5624 Bankfield Avenue
 Culver City, California

PRODUCTS: Auto Lock Steel Scaffolds; Rolling Scaffolds; Waler Jacks; Stud Jacks; Runway Brackets; Material Towers; Jiffy Jacks; Trestles, all types.

DISTRIBUTORS

Distributed through Building Material Dealers and selected Equipment Dealers.

SYMONS BROTHERS CO.
 11551 Hart Street
 North Hollywood, California

PRODUCTS: Vibrating Screens and Grizzlies.

DISTRIBUTORS

California	San Francisco	Edward R. Bacon Co.
Idaho	Boise	Intermountain Equipment Co.
	Pocatello	" " " "
Oregon	Portland	Howard-Cooper Corp.
Utah	Salt Lake City	Cate Equipment Co.
Washington	Seattle	Howard-Cooper Corp.
	Spokane	Intermountain Equipment Co.

SYMONS CLAMP & MANUFACTURING CO.
 Chicago 39
 Illinois

PRODUCTS: Concrete Forms; Column Clamps; Adjustable Shores; Form Hardware and Ties.

FACTORY BRANCH

California San Leandro 683 Thornton St.

DISTRIBUTORS

Arizona	Phoenix	Border Products, Inc.
Colorado	Denver	Universal Co.
Oregon	Portland	Concrete Forms, Inc.
Utah	Salt Lake City	Contractors Eqt. & Supply Co.
Washington	Seattle	Concrete Forms, Inc.

TALBERT CONSTRUCTION EQUIPMENT CO.
 7950 West 47th Street
 Lyons, Illinois

PRODUCTS: Removable Gooseneck Low Bed Trailers; Dump Semi-Trailers; Pole Trailers; Mobile Crane-Mounts.

DISTRIBUTORS

Arizona	Phoenix	Superior Equipment Co.
California	San Francisco	Hell Equipment Co.
Montana	Great Falls	Power Equipment Co.
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Spokane	General Machinery Co.

TAMPO MANUFACTURING CO.
 1146 West Laurel Street, P.O. Box 2340
 San Antonio 6, Texas

PRODUCTS: Pneumatic Tired Rollers, towed type and self-propelled; Compactors; Sheepfoot Tamping Rollers; Concrete Buckets; Road Brooms; Ready-Mix Batching Plants; Bins; Conveyors; Storage Bins; Weighing Batchers.

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Los Angeles	Smith-Booth-Usher Co.
	San Francisco	Edward R. Bacon Co.
Colorado	Denver	Western Machinery Co.
Idaho	Boise	Intermountain Equipment Co.
Montana	Great Falls	Normont Equipment Co.
	Missoula	Mountain Tractor Co.
Nevada	(San Francisco)	Edward R. Bacon Co.
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Portland	Howard-Cooper Corp.
Utah	Salt Lake City	Kimball Equipment Co.
Washington	Seattle	Howard-Cooper Corp.
	Spokane	Intermountain Equipment Co.
Wyoming	Casper	Studer Tractor & Equipment Co.

TEALE & COMPANY
 1417 North 52nd Street
 Omaha, Nebraska

PRODUCTS: Bulldozers, Front-end Loaders and Scarifiers for crawler tractors; Truck Cranes.

REPRESENTATIVES

Arizona	Phoenix	Box 2406	Overstreet & Kininmonth
California	Los Angeles	501 S.L.A. St.	Allied Eqpt. Dists.
	Stockton	1869 W. Rose	J.E. McGinness

C. I. T. CORPORATION

120 Montgomery Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

16th and Gardner Road
Broadview, Illinois

PRODUCTS: Simplex Jacks, Mechanical and Hydraulic; Lever Jacks for specialty cap and tie 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 operating; "Remotrol" Hydraulic Pullers with remote controlled Rams and Pumps with models 10 to 600 ton rated capacity; Rol-Toe Foot Lift Hydraulic Jacks.

California Los Angeles 1635 E.22nd St. c/b Wm.S.Pine

California Concord 720 Bancroft Rd. W.H. Zepp

Arizona	Douglas Phoenix	Phelps-Dodge Corp. Arizona Hardware Co.
	" "	Pratt Gilbert Hardware Co.
California	Bakersfield	Hopper Machine Works, Inc.
	Long Beach	American Wholesale Hardware Co.
	Los Angeles	California Hardware Co.
	" "	Ducommun Metals & Supply Co.
	" "	Fornaciari Co.
	" "	Howard Supply Co.
	" "	Oil Well Supply Co.
	" "	Republic Supply Co. of California
	" "	J.G.Tucker & Son
	" "	Union Hardware & Metals Co.
	Sacramento	L & G Specialties Thomson Diggs Co.
	" "	Gould Hardware & Machinery Co.
	San Diego	Western Metal Supply Co.
	San Francisco	Edward R.Eacon Co.
	" "	C.H.Bull Co.
	" "	Gilmore Steel & Supply Co.
	" "	A.J.Glesener Co.
	San Leandro	Republic Supply Co. of California
	Torrance	National Supply Co. of California
Colorado	Denver	Mine & Smelter Supply Co.
Idaho	Boise	Intermountain Equipment Co.
Montana	Billings	Great Northern Tool & Supply Co.
	Butte	Hall-Perry Machinery Co.
	Kalispell	Montana Hardware Co.
	Great Falls	Westmont Tractor & Equipment Co.
Nevada	Reno	Carl Weissman & Sons, Inc.
New Mexico	Albuquerque	Sierra Machinery Co.
	" "	Contractors Equipment & Supply Co.
	" "	R.L.Harrison Co., Inc.
	" "	J.Korber & Co.
	Artesia	Allied Supply Co.
	" "	Union Supply Co., Inc.
Oregon	Carlsbad	Union Industrial Corp.
	Astoria	Fisher Brothers Co.
	Corvallis	Roeser's Hardware Co.
	Klamath Falls	Lorenz Company
	Portland	J.E.Haseltine & Co.
Utah	" "	Nelson Equipment Co.
	Salt Lake City	Industrial Supply Co.
	" "	Mine & Smelter Supply Co.
Washington	Seattle	The Carrington Co.
	" "	Campbell Industrial Supply Co.
	" "	Clyde Equipment Co.
	" "	Peterson Wholesale Hardware Co.
	" "	Seattle Hardware Co.
	" "	Star Machinery Co.
	" "	Yukon Equipment, Inc.
	Spokane	Intermountain Equipment Co.
	" "	Towne Equipment Co.
	Tacoma	Hunt & Mottet Co.
	Yakima	Yakima Hardware Co.

California	Los Angeles	Fornaciari Co.
	Sacramento	L & G Specialties
	San Francisco	C.H.Bull Co.
Colorado	Denver	Quinn & McGill Motor Supply Co.
Montana	Great Falls	H.W.Ludwig's Hyd. Jack Service
Oregon	Portland	Equipment Service Co.
Utah	Salt Lake City	Wilson's Transport Supply
Washington	Seattle	Universal Repair Shop

Neph
Utah

PRODUCTS: Conveyor and Elevator Belting; Transmission Belting; V-Belts; Complete line of Hose; Fittings; Packing; Brake Lining; Molded Rubber Products; Tank and Pipe Lining; Specialty Products.

Continued in next column

THERMOID WESTERN CO. (CONTINUED)

California	Los Angeles	1100 S.Santa Fe Ave.	J.L.Palmear
	San Francisco	544 Second St.	Ronald Olson
Oregon	Portland	3939 NW St.Helens	C.B.Cayton

California	Los Angeles	1100 S.Santa Fe Ave.	J.W.Minnock
	San Francisco	544 Second St.	O.Sand
Colorado	Denver	724 Coalfax St.	R.Wanamaker

Arizona	Phoenix	Garrett Supply Co.
California	Fresno	Bearing Supply Co.
	Sacramento	Capital Machine & Welding Wks., Inc.
	San Francisco	George M. Philpott Co.
	"	Standard Machinery Co.
	Stockton	Gunter & Zimmerman Sales Div., Inc.
Colorado	Denver	Midwest Rubber & Supply Co.
	Uravan	Homer Woods Supply Co.
Idaho	Boise	Western Bearings, Inc.
	Pocatello	Flaherty Equipment Co.
Montana	Butte	Butte Machinery Co.
Nevada	Fallon	Bernie Spencer Ind. Sales & Service
Oregon	Portland	Electric Steel & Foundry
	"	Harris Supply Co.
Washington	Seattle	Marine & Industrial Supply Co.
	Spokane	Equipment Sales & Service Co.
	Tacoma	Paramount Supply Co.
Wyoming	Casper	Emerick Hill Engine & Eqpt. Co.

Local n Ohio

DISTRIBUTORS

Alaska	Anchorage	Yukon Equipment, Inc.
Arizona	Phoenix	Lee Redman Equipment Co.
California	Los Angeles	Santa Fe Equipment Co., Inc.
	San Bernardino	
	San Francisco	Coast Equipment Co.
Colorado	Alamosa	McCoy Company
	Denver	"
	Grand Junction	"
	Sterling	"
Idaho	Boise	Southern Idaho Eqpt. Sales Co.
	Idaho Falls	"
	Twin Falls	"
Montana	Billings	Nash-Davis Machinery Co.
	Bozeman	
	Glasgow	Tractor & Equipment Co.
	Great Falls	Central Machinery Co.
	Havre	"
	Kalispell	Mountain Tractor Co.
	Lewiston	Central Machinery Co.
	Miles City	Tractor & Equipment Co.
	Missoula	Mountain Tractor Co.
	Sidney	Tractor & Equipment Co.
Nevada	Reno	General Equipment Co.
Oregon	Portland	P.L.Crooks & Co., Inc.
Utah	Salt Lake City	Atlas Equipment Co.
Washington	Seattle	A.H.Cox & Co.
	Spokane	Andrews Equipment Service
	Tacoma	A.H.Cox & Co.
Wyoming	Greybull	Nash-Davis Machinery Co.

175 North State Street
Aurora, Illinois

PRODUCTS: Paving Breakers; Rock Drills; Clay Diggers; Trench Diggers; Backfill Tampers; Wagon Drills; Sump Pumps; Cement Hammers; Associated Mining and Contractors' Tools.

California	Los Angeles	6200 E. Slauson Ave.	W. J. Laughlin
	San Francisco	315 S. Van Ness Ave.	B. J. Herron
Colorado	Denver	2704 W. 8th Ave.	C. H. Gabriel
Washington	Seattle	611 E. Pike St.	R. J. Horrocks

Arizona	Phoenix	Shriver Machinery Co.
California	Bishop	Black's Machine Shop
	Los Angeles	Smith-Booth-Usher Co.
	San Francisco	Edward R. Bacon Co.
Colorado	Denver	Western Machinery Co.
Idaho	Boise	The Sawtooth Co.
	Coeur d'Alene	Gardner Supply Co.

Continued on next page

C. I. T. finances installment sales of equipment for many Distributors

THOR POWER TOOL CO. (CONTINUED)

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	Nelson Equipment Co.
	"	Feenaughty Machinery Co.
Utah	Midvale	Utah Bit & Steel Co.
	Salt Lake City	Western Machinery Co.
Washington	Seattle	A.H.Cox & Co.
	"	Yukon Equipment Co.
	"	Western Machinery Co.
Wyoming	Spokane	Wortham Machinery Co.
	Cheyenne	

THE TIMKEN ROLLER BEARING CO.
Canton 6
Ohio

PRODUCTS: Tapered Roller Bearings; Removable Rock Bits; Alloy Steel Bars and Billets; Seamless Steel Tubing.

FACTORY BRANCHES

California	Los Angeles	2727 South Flower St.
	San Francisco	1452 Bush Street
Colorado	Denver	2140 East 45th Ave.
Washington	Seattle	305 Ninth Ave. North

TORO MANUFACTURING CORP.
3042 Snelling Avenue
Minneapolis 6, Minnesota

PRODUCTS: TORO TRACTORS — Bullet-General w/dump box—Parkmaster.
TORO GANG MOWERS — Spartan 30" and Roughmaster 30".
TORO ROTARY MOWERS — 80" Whirlwind w/mulcher available.
TORO ROTARY MOWERS — Whirlwind 24 and 31" hand guided.
TORO REEL MOWERS — Professional 76" 3 unit; Park Special 30"

FIELD REPRESENTATIVE

California	Los Altos	491 Gabilan	W.H.Brinkworth
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DISTRIBUTORS

Alaska	(Seattle)	Washington Turf & Toro Co.
Arizona	Phoenix	Arizona Toro Sales
California	Fresno	Valley Toro Sales
	Los Angeles	Pacific Toro Co.
	San Francisco	California Toro Co.
Colorado	Denver	Colorado Toro Co.
Idaho	(Salt Lake)	Salt Lake Hardware Co.
Montana	Billings	Montana Toro Sales Co.
	Kalispell	Manion's
Nevada	(San Francisco)	California Toro Co.
New Mexico	(Denver)	Colorado Toro Co.
	(El Paso)	Myers Equipment Co.
	(Salt Lake)	Salt Lake Hardware Co.
Oregon	Portland	Western Golf Course Supply Co.
Utah	Salt Lake City	Salt Lake Hardware Co.
Washington	Seattle	Washington Turf & Toro Co.
Wyoming	Cheyenne	Wyoming Toro Co.
	(Omaha)	Z.W.Credle Co.

TOWNER MANUFACTURING CO.
2111 West 17th Street
Santa Ana, California

PRODUCTS: Aerating and Mixing Plows (Scari-Plow); Refuse Collection Units (Nu-Way Refuse Collection and Compaction Units); Towner Tow Transport System (palletized trailer transportation).

DISTRIBUTORS

California	Colton	Towner Meyer Co.
	Fresno	" " "
	Stockton	" " "
Utah	Salt Lake City	General Implement Dists., Inc.
Washington	Yakima	Rankin Equipment Co.

TRACTOMOTIVE CORPORATION
County Line Road
Deerfield, Illinois

PRODUCTS: Tracto-Loaders (rubber-tired front end loaders); Tracto-Shovels (crawler mounted hydraulic shovels); Tracto-Rippers (hydraulic rippers for Allis-Chalmers crawler tractors); Tracto-Log Tongs (hydraulic log tongs for Allis-Chalmers crawler tractors).

DISTRIBUTORS

Allis-Chalmers Construction Equipment Dealers and Branches.

TRAFFIC EQUIPMENT CORP.
2461 South Dahlia Lane
Denver 22, Colorado

PRODUCTS: Steel Traffic Barricades; Steel Construction Barricades; Manhole Guards; Tripods; Steel Bridge Wings; Steel Permanent Barricades; Flashing Lamp Brackets; Extensions; Flags and Flag Staffs; Sign Brackets and Sign Holders.

DISTRIBUTORS

Arizona	Phoenix	Road Machinery Co.
Colorado	Denver	C & C Tire & Supply Co.
	"	Macdonald Equipment Co., Inc.
	"	Power Equipment Co.
	Grand Junction	S & M Supply Co.
Idaho	Boise	Starline Equipment Co.
Montana	Billings	Hall-Perry Machinery Co.
	Butte	" " " "
	Great Falls	" " " "
	Missoula	" " " "
New Mexico	Albuquerque	C.E.Mitcham Co.
	"	New Mexico Equipment Co.
Oregon	Portland	Edward L.Kropp Co.
	"	Traffic Safety Supply Co.
Utah	Salt Lake City	Holland Equipment Co.
Washington	Spokane	Spokane Safety Appliance Co.
Wyoming	Cheyenne	Wilson Equipment & Supply Co.

TRAILMOBILE, INC.
901 Gilman Street
Berkeley 10, California

PRODUCTS: Commercial Trailers; Truck Bodies.

FACTORY BRANCHES

California	Fresno	2626 Railroad Ave.	Robert Holmes
	Los Angeles	1765 E.46th St.	Wayne Hill
	Oakland	640 Hegenberger Rd.	Erve Rupert
	Sacramento	510 N.12th St.	J.M.Smith
	San Francisco	2030 Third St.	Roy Reece
Utah	Salt Lake City	365 W.1370 South	J.W.Reuter

DISTRIBUTORS

Montana	Billings	Motor Power & Equipment Co.
Oregon	Portland	Riddell Trailer & Equipment Co.
Washington	Seattle	" " "
	Spokane	Critzer Equipment Co.

TRANSPORT TRAILERS, INC.
1200 12th Street Southwest
Cedar Rapids, Iowa

PRODUCTS: Heavy-duty Trailers; Lowbeds; Platforms; Tilt Trailers; Dump Trailers; Beam Trailers; Removable Gooseneck Trailers; Trailer Dollies.

DISTRIBUTORS

Arizona	Phoenix	Arizona Cedar Rapids Co.
	Tucson	F.Ronstadt Hardware Co.
California	Berkeley	West Coast Engine & Equipment Co.
Colorado	Denver	H.W.Moore Equipment Co.
	Grand Junction	" " " "
Idaho	Boise	Western Equipment Co.
	Idaho Falls	Arnold Machinery Co., Inc.
	(Spokane)	Feenaughty Machinery Co.
Montana	Billings	Montana Powder & Equipment Co.
	Helena	" " " "
Nevada	Reno	Sierra Machinery Co.
	(Salt Lake)	Arnold Machinery Co.
New Mexico	Albuquerque	N.C.Ribble Co.
Oregon	Portland	Feenaughty Machinery Co.
Utah	Salt Lake City	Arnold Machinery Co.
Washington	Seattle	Feenaughty Machinery Co.
	Spokane	" " " "
Wyoming	Casper	Keremi Tractor & Equipment Co.
	Cheyenne	" " " "

TRAVEL-BATCHER CORP.
6500 Holladay Boulevard
Salt Lake City 17, Utah

PRODUCTS: "Travel-Batcher" and "Travel-Batcher" Cement Silo.

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	San Francisco	Coast Equipment Co.
Colorado	Denver	Western Machinery Co.
Washington	Seattle	Hatten Machinery Co.
	Spokane	Western Machinery Co.
Wyoming	Casper	Moss Equipment & Supply Co.

WESTERN CONSTRUCTION is first choice of equipment manufacturers—first choice is built into WC!

C. I. T. CORPORATION

120 Montgomery Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

TRAYLOR ENGINEERING & MFG. CO.Tenth and Mill Street
Allentown, Pennsylvania**PRODUCTS:** Gyratory, Jaw and Reduction Crushers; Crushing Rolls; Rod Mills; Ball Mills; Apron and Grizzly Feeders.**FACTORY BRANCH OFFICE**

California San Francisco 55 New Montgomery D.J.Kramm, Mgr.

DISTRIBUTORS

Arizona	Phoenix	National Equipment Co.
Oregon	Portland	Columbia Equipment Co.
Utah	Salt Lake City	National Equipment Co.
Washington	Spokane	" "

TRIUMPH MACHINERY CO.Willow Grove Street
Hackensack, New Jersey**PRODUCTS:** Hydraulic Driven Highway Mowers; Hydro-Clipper; Landscape Rake; Hydro Rake.**DISTRIBUTORS**

See your local tractor distributor.

TRUSCON STEEL DIVISIONRepublic Steel Corporation
Youngstown 1, Ohio**PRODUCTS:** Steel and Aluminum Windows (all types); Residential Interior Steel Doors; Industrial and Hangar Steel Doors; Metal Lath Products and Accessories; Steel Joists; Steeldock Roofs; Complete Steel Buildings; Concrete Reinforcing Bars; Stressteel Tensioning Units; Welded Wire Fabric; Steel Poles and Radio Towers.**WESTERN OFFICES**

Arizona	Phoenix	221 SE Camelback Rd.	R.A. Johnson
California	Los Angeles	5424 Slauson Ave.	N.J. Cavalier
	San Francisco	16 Beale St.	Hall Waller
Oregon	Portland	2139 N.Kerby Ave.	J.L. Ruth
Washington	Seattle	107 W.Harrison St.	Norman Field

TUCKER SNO-CAT CORP.P.O. Box 888
Medford, Oregon**PRODUCTS:** Sno-Cats; Sno Kittens; Sno-Trailers.**DISTRIBUTORS**

California	Los Angeles	Calavar Corp.
	San Francisco	The F.W.D. Pacific Co.
Colorado	Denver	The H.W. Moore Equipment Co.
Utah	Salt Lake City	The Lang Co.
Washington	Seattle	Yukon Equipment, Inc.
Wyoming	Jackson	Brown's Motor & Welding Shop

TURLOCK IRON & MACHINE WORKSP.O. Box 609
Turlock, California**PRODUCTS:** "HYPOWER" Hydraulic and Air Cylinders and Stroke Control Devices.**FACTORY SALES REPRESENTATIVES**

California	Stockton	P.O. Box 47	Grether & Grether
	Whittier	P.O. Box 1036	" " "
		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
	H.R. Hougan	District Service Representative

Continued in next column

TWIN DISC CLUTCH CO. (CONTINUED)**DISTRIBUTORS**

Arizona	Phoenix	Arizona Equipment Sales, Inc.
California	Bakersfield	California Truck & Ind. Eqpt. Co.
	Huntington Park	N.A.D'Arcy Co.
	Los Angeles	Charles W. Carter Co.
	Sacramento	California Equipment Co.
	San Francisco	" "
	" "	Charles A. Fowler Co.
Colorado	Denver	Industrial Equipment Co.
New Mexico	Hobbs	Vance Supply Co.
Oregon	Eugene	Mill-Log Equipment Co.
	Portland	Hydra-Lines, Inc.
	" "	Power Transmission Products
Utah	Salt Lake City	Diesel Electric Service & Supply Co.
Washington	Seattle	Bowers Machine Co.
	" "	Chain Gear, Inc.
	Spokane	Bitco, Inc.
Wyoming	Casper	Emrick & Hill Engine & Eqpt. Co.

ULRICH MANUFACTURING CO.Rooanoke
Illinois**PRODUCTS:** Elevating Grader Attachments for Caterpillar No. 12 and No. 112 Motor Graders; Road Widener Attachment for Motor Graders; Snow Blowing Attachment for Caterpillar No. 12 and No. 112 Motor Graders; Hydraulic Loader for Caterpillar D2 and D4 Tractors, both oscillating and non-oscillating types; Front Mounted Push Plate for Caterpillar No. 12 and No. 112 Motor Graders.**DISTRIBUTORS**

Same as for Caterpillar Tractor Co.

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 REPRESENTATIVE**Oregon Portland Rm. 400, Concord Bldg. W.D. Hollingworth
208 S.W. Stark St.**DISTRIBUTORS**

Alaska	Anchorage	Bearing Engrg. & Supply Co.
	Fairbanks	" " "
Arizona	Phoenix	Arizona Conveyor & Equipment Co.
California	Los Angeles	American Chain & Gear Co.
	San Francisco	Charles A. Fowler Co.
	Stockton	Stockton Iron Works
	Long Beach	Kings Parts & Service
Colorado	Denver	Allen Bearings & Supply Co.
	" "	Power Transmission Co.
	Grand Junction	Williams Electric & Supply Co.
Idaho	Boise	Western Bearings, Inc.
	Idaho Falls	Ideal Hardware Co.
	Twin Falls	Floyd Lilly Co.
Montana	Great Falls	Brack Motor Supply Co.
	Kalispell	Westmont Tractor & Equipment Co.
	Missoula	Power Transmission, Inc.
	" "	Westmont Tractor & Equipment Co.
New Mexico	Carlsbad	Union Industrial Corp.
	Farmington	Justis Supply Co.
Oregon	Eugene	Munnell & Sherrille, Inc.
	Portland	" " "
Utah	Salt Lake City	Kimball Equipment Co.
	" "	Lundin & May Foundry Co.
Washington	Longview	Longview Equipment Co.
	Seattle	Bearing Engrg. & Supply Co.
Wyoming	Casper	Wyoming Automotive Co., Ind.
	" "	Dist. Div.

UNION WIRE ROPE CORP.21st and Manchester Avenue
Kansas City 26, Missouri**PRODUCTS:** Wire Rope; High Carbon Wire and "Tuffy" Slings; Stress Relieved Wire and Strand.**FACTORY BRANCHES**

California	N. Sacramento	District Manager	D.L. Bedford
Colorado	Denver	" "	M.B. Riley
Oregon	Portland	" "	Eugene Hinken

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

UNIT CRANE & SHOVEL CORP.
 6411 West Burnham Street
 Milwaukee 19, Wisconsin

PRODUCTS: Cranes, Shovels, Draglines, Clamshells and Trenches — 3/8 to 3/4 yard as excavators and 8 — 30 ton as cranes — crawler, mobile and truck mounted.

DISTRICT SALES REPRESENTATIVE

California Sacramento 4440 Cabrillo Way Herman Combs

DISTRIBUTORS

Arizona	Phoenix	The O.S. Stapley Co.
California	Los Angeles	Garlinghouse, Fremont & Co.
	N. Sacramento	Industrial Tractor Sales
	Oakland	Bay Cities Equipment, Inc.
	Redding	Shasta Truck & Equipment Co.
	San Jose	Bay Cities Equipment, Inc.
Colorado	Denver	Air Rentals, Inc.
	Billings	Seitz Machinery Co., Inc.
	Great Falls	" " " "
Nevada	Reno	Reno Equipment Sales
Oregon	Portland	Manitou Equipment Co.
Utah	Salt Lake City	Rasmussen Equipment & Supply Co.
Washington	Seattle	Manitou Equipment Co.
	Spokane	Inland Diesel & Machinery Co.

UNIT MANUFACTURING CO.
 1229 Harmon Place
 Minneapolis 3, Minnesota

PRODUCTS: Hydraulic Cylinders; Unit Utility Hoists and "3 in 1" Lifts.

UNITED STATES RUBBER CO.
 Mechanical Goods Division
 1230 Avenue of the Americas
 New York 20, New York

PRODUCTS: Hose and Hosing; Tires (truck, auto, construction equipment of all kinds); Batteries; Protective Clothing and Helmets (all kinds); Cables and Wiring, electrical (all kinds); Pipe and Fittings, plastic (all kinds); Plastic Products, industrial and automotive (all kinds); Portable Construction Housing ("Fiberthin airhouses"); Conveyor Belting; Timing Belts; Tubing and Fittings (all kinds).

FACTORIES

California	Los Angeles	5675 Anaheim—Telegraph Rd.	B. Adams
	Santa Ana	515 E. Dyer Road	C.H. Baldwin

WESTERN DIVISION MANAGER — U.S. TIRES

Los Angeles 5675 Anaheim—Telegraph Rd. R.W. Collings

BRANCHES AND OFFICES

Arizona	Phoenix	1140 N. 22nd Avenue
California	Los Angeles	Soto and E. 46th Street
	San Francisco	6025 Third Street, P.O. Box 3247
Colorado	Denver	4800 Colorado Blvd., P.O. Box 6867
Oregon	Portland	630 N.W. Tenth Avenue
Utah	Salt Lake City	160 Social Hall Avenue
Washington	Seattle	220 Jackson Street
	Spokane	South 105 Howard Street

Note: For special information, contact: George W. Barber, Public Relations Mgr., Pacific Coast Region, U.S. Rubber Co., at 5675 Anaheim—Telegraph Rd., Los Angeles, California

UNITED STATES RUBBER CO.
 Truck Tire Sales Division
 5675 Anaheim—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.

FACTORY BRANCHES

Arizona	Phoenix	1140 N. 22nd Ave.	D.A. Fleming
California	Los Angeles	Soto & E. 46th St.	W.J. Gallagher
	San Francisco	6025 Third St.	M. Harvey
Colorado	Denver	4800 Colorado Blvd.	J.W. Carpenter
Oregon	Portland	630 NW 10th Ave.	W.D. Ralston
Utah	Salt Lake City	160 Social Hall Ave.	P.L. Watkins
Washington	Seattle	220 Jackson St.	S.A. Patton
	Spokane	S. 105 Howard St.	G.L. McLaren

UNITED STEEL FABRICATORS, INC.
 333 Gasche Street
 Wooster, Ohio

PRODUCTS: Structural Plate Bridge Flooring; Steel Concrete Bridge Deck Forms; Highway Guard Rail; Prefabricated Steel Buildings.

DISTRIBUTORS

Colorado	Denver	Thompson Pipe & Steel Co.
Montana	Billings	Eaton Metal Products Co.
Washington	Spokane	Spokane Culvert & Fabricating Co.

UNIVERSAL ENGINEERING CORP.
 625 "C" Avenue, Northwest
 Cedar Rapids, Iowa

PRODUCTS: Crushing, Screening, Washing, Loading and Conveying Equipment (portable, semi-portable and stationary) for rock, gravel, sand and aglime; Ore Crushing and Handling Equipment; Asphalt Plants.

DISTRICT REPRESENTATIVES

California	N. Hollywood	12147 Huston St.	C.W. Cadarette
Colorado	Palo Alto	674 Wellsbury Way	Alex Ainlay
	Denver	3518 Holly St.	Ed J. Towey

DISTRIBUTORS

Alaska	Anchorage	Yukon Equipment, Inc.
	Fairbanks	" " "
	Ketchikan	" " "
Arizona	Phoenix	Arizona Equipment Sales
California	Berkeley	West Coast Engine & Eqt. Co.
	Los Angeles	Calavar Corporation
	Sacramento	Island Equipment Co.
	Stockton	Equipment Sales & Service
Colorado	Denver	Liberty Truck & Parts Co.
	"	Mine & Smelter Supply Co.
Idaho	Boise	Carl R. Burt Equipment Co.
	Pocatello	Rocky Mountain Machinery Co.
Montana	Helena	Montana Powder & Equipment Co.
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	Loggers & Contractors Mch. Co.
Utah	Salt Lake City	Mine & Smelter Supply Co.
	"	Rocky Mountain Machinery
Washington	Seattle	Western Tractor & Equipment Co.
	"	Yukon Equipment, Inc.
	Spokane	Modern Machinery Co., Inc.
Wyoming	Cheyenne	Mountain Equipment Co.

UNIVERSAL FORM CLAMP CO.
 1238 North Kostner Avenue
 Chicago 51, Illinois

PRODUCTS: Uni-Form Panels; Spiroloc Form Ties; Twistee Form Ties; Form Clamps; Anchoring Devices; Reinforcing Bar Supports.

FACTORY BRANCHES

California	Los Angeles	Manager	D. Harney
	San Leandro	"	N. Turner

DISTRIBUTORS

Arizona	Phoenix	Superior Equipment Co.
Colorado	Denver	K.C. Construction Supply Co.
New Mexico	Albuquerque	Equipment Rental & Sales Co.
Oregon	Portland	McCracken-Ripley Co.
Utah	Salt Lake City	Steel Engineers Co.
Washington	Seattle	Universal Equipment Co.
	Spokane	Construction Equipment Co.

UNIVERSAL MANUFACTURING CORP.
 West New Castle
 Zelienople, Pennsylvania

PRODUCTS: Ezebilt Steel Panel Scaffolding and Scaffold-for-Shoring; Steel Post Shores; Ladscaf Ladder-Panel Scaffolding; Endlok Pipe and Clamp Scaffolding; Sidewalk Bridging; American Tubular Elevator Towers; American-Universal Bleachers.

DISTRIBUTORS

California	Burlingame	American-Universal of N. Calif., Inc.
	Los Angeles	American-Universal of Calif., Inc.
Colorado	Denver	The Universal Co.
Utah	Salt Lake City	Contractors Equipment & Supply Co.
Washington	Seattle	Universal Equipment Co.

UNIVERSAL MOTOR CO.
 557 Universal Drive
 Oshkosh, Wisconsin

PRODUCTS: Generator Sets and Battery Chargers, gasoline engine driven; Power and Light Plants, Diesel engine driven.

DISTRIBUTORS

Arizona	Phoenix	Arizona Equipment Sales Co.
	"	Beeler Brothers
	"	The O.S. Stapley Co.
California	Los Angeles	Fornaciari Company
	"	Larson Equipment Co.
	"	Shepherd Machinery Co.
	San Diego	"
	San Francisco	Coast Equipment Co.
	"	Thomas A. Short Co.
Colorado	Denver	Contractors Equipment Co.
	"	King & East Machinery Co.
	"	Mine & Smelter Supply Co.
	Grand Junction	S & M Supply Co.
Idaho	Boise	Engineering Sales Service, Inc.
New Mexico	Albuquerque	J.D. Coggins Co.
	"	Contractors Equipment & Supply Co.
Oregon	Medford	Cal-Ore Machinery Co., Inc.
	"	Sim Grady Machinery Co.
	Portland	T.B. Cook Engine Co.
Washington	Seattle	Andrews Machinery Co.
	"	The Carrington Co.
	"	Pacific Marine Supply Co.

UTILITY TRAILER MFG. CO.
Box F-1
Pueño, California**PRODUCTS:** No. 77 Dump Trailers; No. 203 Trailers; Vans; Flats; Lowbeds; Tiltbeds; Reel Carriers.**DISTRIBUTORS**

Arizona	Phoenix	Utility Trailer Sales Co.
California	Fresno	" " " "
	Los Angeles	" " " "
	Sacramento	" " " "
	San Diego	" " " "
	San Francisco	" " " "
Colorado	Denver	Elder Trailer & Body Co., Inc.
Oregon	Portland	Utility Trailer & Equipment Co.
Utah	Salt Lake City	Utility Trailer Sales & Ept. Co.
Washington	Seattle	Transport Trailer & Equipment Co.
	Spokane	Alloy Manufacturing Co.

VERMEER MANUFACTURING CO.
Pella
Iowa**PRODUCTS:** Ditching Machines.**DISTRIBUTORS**

Arizona	Phoenix	O.S. Stapley Co.
California	Alhambra	Jetco, Inc.
	San Jose	M.F.D., Inc.
Washington	Seattle	Star Machinery Co.
	Spokane	" " " "

VIBER COMPANY
726 South Flower Street
Burbank, California**PRODUCTS:** Concrete Vibrators — Interchangeable Lines of Internal Vibrators, Electric, Pneumatic and Gasoline Engine Driven; Laboratory Electric, Heavy Duty Electric and Pneumatic; Full Depth Internal Paving; Electric and Pneumatic External.**DISTRIBUTORS**

Alaska	(Seattle)	Yukon Equipment Co.
Arizona	Phoenix	Lee Redman Equipment Co.
California	Los Angeles	Crellin Machine Co.
	"	Garlinghouse, Fremont & Co., Inc.
	Piedmont	Arthur P. Denton
	Sacramento	W.J. Burke & Co.
	San Francisco	" " " "
	Stockton	Guntert & Zimmerman Sales Div., Inc.
Colorado	Denver	Ray Corson Machinery Co.
Idaho	Boise	Intermountain Equipment Co.
	Pocatello	" " " "
Montana	Billings	Casper Concrete Co.
	Helena	Montana Powder & Equipment Co.
Nevada	Reno	Sanford Tractor & Equipment Co.
New Mexico	Albuquerque	W.J. Burke & Co.
Oregon	Eugene	P.L. Crooks & Co., Inc.
	Portland	" " " "
	Medford	Cal-Ore Machinery Co., Inc.
Utah	Salt Lake City	The C.H. Jones Equipment Co.
Washington	Seattle	A.H. Cox & Co.
	Spokane	Intermountain Equipment Co.
	Wenatchee	Elliott Equipment Co.
Wyoming	Casper	Casper Concrete Co.

VIBRO-PLUS PRODUCTS, INC.
Stanhope
New Jersey**PRODUCTS:** Vibratory Soil Compactors; Concrete Vibrators; Industrial Vibrators; Pre-stressed Concrete Vibrators.**DISTRIBUTORS**

Alaska	Anchorage	Craig Taylor Equipment & Supply Co.
Arizona	Phoenix	Road Machinery Co.
California	San Francisco	Edward R. Bacon Corp.
Colorado	Denver	Air Rentals, Inc.
Idaho	Idaho Falls	Arnold Machinery Co.
Nevada	Las Vegas	Inland Service & Supply Corp.
	Reno	Pioneer Equipment Co.
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	Andrews & Andrews Equipment Co.
Utah	Salt Lake City	Arnold Machinery Co.
Washington	Seattle	Universal Equipment Co.
	Spokane	Andrews Equipment Service
Wyoming	Casper	Studer Tractor & Equipment Co.

The WC Equipment Directory tells who manufactures equipment you might know only by its trade mark name. Trade names are listed in blue section.

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	Al Dreith, Jr.	Manager
	Los Angeles	E.O. Williams	Vice President
	"	Jack Spence	"
	Oakland	Richard Heinemann	Manager
	Sacramento	Richard Labagh	"
	San Diego	Herb Maynard	"
	Stockton	Neal Holmes	"
	Ventura	R.J. Campbell	"

DISTRIBUTORS

Arizona	Phoenix	Arizona Welding Equipment Co.
	"	Consolidated Welding Supply Co.
Colorado	Tucson	Aweco Supply Co.
	Craig	U.S. Welding Works
	Denver	"
	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	"
Montana	Billings	General Distributing Co.
	Butte	Butte Machinery Co.
	"	General Distributing Co.
	Great Falls	"
	"	Mike's Welding Supply Co.
Nevada	Poplar	Poplar Supply Co.
	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	"
	"	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
Wyoming	Yakima	"
	Worland	Worland Oxygen Co.

VULCAN IRON WORKS, INC.
327 North Bell Avenue
Chicago 12, Illinois**PRODUCTS:** Steam or Air Operated Pile Driving Hammers; Steam or Air Operated Pile Extractors; Drop Pile Hammers; Portable Pile Hammers; Pile Driving Accessories.**DISTRIBUTORS**

California	Los Angeles	Harron, Rickard & McCone of S. Calif.
	San Francisco	Coast Equipment Co.
Colorado	Denver	Hendrie & Bolthoff Co.
Idaho	Boise	Intermountain Equipment Co.
New Mexico	Albuquerque	Hendrie & Bolthoff Co.
Oregon	Portland	Balzer Machinery Co.
	(Boise)	Intermountain Equipment Co.
Washington	(Portland)	Balzer Machinery Co.
	Seattle	A.H. Cox & Co.
	Spokane	Intermountain Equipment Co.
Wyoming	(Denver)	Hendrie & Bolthoff Co.

WAGNER IRON WORKS
1905 South First Street
Milwaukee 1, Wisconsin**PRODUCTS:** Tractor mounted equipment such as: Hydraulic Front-end Loaders, Backhoes, Scarifiers, Utility Dozers, Fork Lifts and related attachments.**REGIONAL MANAGER**

California	Lafayette	3521 Silver Springs Rd. D.E. Techel
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Continued on next page

**C. I. T. finances installment sales
of equipment for many Distributors**

WAGNER IRON WORKS (CONTINUED)

DISTRIBUTORS

California	Anaheim	Allied Equipment Distributors
	Los Angeles	Hight-Thompson, Inc.
	Oakland	H.E. Linney Co.
Colorado	Richmond	Pacific Tractor & Implement Co.
	Denver	McCarthy-Sherman Distributing Co.
Montana	Billings	Hill Farm Machinery Co.
Oregon	Portland	Seitz Distributing Co.
Utah	Salt Lake City	Independent Distributors
		Intermountain Ford Tractor Sales Co.

WAGNER TRACTOR, INC.
8027 N.E. Killingsworth
Portland 20, Oregon

PRODUCTS: Tractors; Dozers; Rollers; Carrying Scrapers.

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

Arizona	Phoenix	Western Machinery Co.
California	Los Angeles	Shaw Sales & Service Co.
	San Francisco	Edward R. Bacon Co.
Colorado	Denver	Western Machinery Co.
Idaho	Boise	Southern Idaho Equipment Co.
Montana	Butte	Roberts Truck & Parts Supply
Oregon	Portland	Cramer Machinery Co.
Utah	Salt Lake City	Lund Machinery Co.
Washington	Spokane	Western Machinery Co.

WARN MANUFACTURING CO., INC.
18821 Pacific Hiway South
Seattle 88, Washington

PRODUCTS: Conversion Hubs for 4Wd. Vehicles (Willys, Dodge, Chevrolet, Dodge Land Rover, Ford, International and G.M.C.).

DISTRIBUTORS

Arizona	Phoenix	Auto Safety House
	"	Ray Korte, Inc.
California	Emeryville	Willys Motors, Inc.
	Los Angeles	International Harvester Co.
	"	Lambert Co.
	Oakland	C and C Trailer Body Co.
Colorado	Denver	Kurland Motors, Thomas Hyer Co.
Idaho	Boise	Gem State Motors
	"	National Motor Service
Montana	Billings	George Pierce, Inc.
	"	H.C.L. Equipment Co.
	"	Robinson Motors
New Mexico	Albuquerque	A. Ray Barker
	"	Timpie Bros.
Oregon	Portland	Pacific Body Builders
	"	Willys Motors, Inc.
Utah	Salt Lake City	Willys Intermountain, Inc.
Washington	Seattle	C & H Truck Equipment
	"	Wilcox Motors

H.S. WATSON CO.
1316 - 67th Street
Emeryville 8, California

PRODUCTS: Flexible Shaft Couplings for pump drives, posthole diggers, truck mounted pumps and cranes, winches, auxiliary transmissions, augers, sprayer booms, compressors, electric plants, sprayer nozzles, pumps and elevating tail gates for pickups.

DISTRICT MANAGERS

California	Fairfax	370 Cascade	William Hessin
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	C & C Trailer & Body Co.
	Los Angeles	" " " " " "
	Modesto	Geiger Iron Works
	Oakland	C & C Trailer & Body Co.
	"	Ruckstett California Sales Co.
	Pomona	Win Ward Co.
	W. Sacramento	Commercial Body & Trailer Service
	San Diego	Win Ward Co.
Colorado	Denver	Winter-Weiss Co.
Idaho	Boise	Dysons Truck Equipment Co.
	Idaho Falls	Musselman Equipment Co.
	Twin Falls	Twin Falls Auto Parts
Montana	Billings	H.C.L. Equipment Co., Inc.
	Great Falls	Smith Equipment Co.
New Mexico	Albuquerque	Winter-Weiss Co.
Oregon	Portland	Northwest Truckstell Sales, Inc.
Utah	Salt Lake City	The Lang Co., Inc.
Washington	Seattle	Washington Truckstell Sales, Inc.

WAUKESHA MOTOR CO.
1001 West St. Paul Avenue
Waukesha, Wisconsin

PRODUCTS: Gas, Gasoline and Diesel Engines and Power Units; Engine Generator Sets - 50 - 600 KW.

FACTORY BRANCH

California	Los Angeles	Manager	A.G. Mulkey
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DISTRIBUTORS

Arizona	Phoenix	Waukesha SW Engine-Parts Mfg. Co.
California	Emeryville	Waukesha Pacific Equipment Co.
	Eureka	B & S Supply Co.
	Los Angeles	Fraizer Wright Co.
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	Salt Lake City	The Love Co., Inc.
	Springville	" " " "
Wyoming	Casper	Waukesha Engine & Equipment Co.

WAUSAU IRON WORKS

Wausau
Wisconsin

PRODUCTS: Snow Plows for Trucks, Graders; Wheel Tractors; JARP Pum-Pac Hi-Pressure Electric Hydraulic Power Unit to replace hand pump applications; Material Spreaders; Hydra Clutch Pumps; Underbody Truck Graders.

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.
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.
	"	N.C. Ribble Co.
	Las Cruces	The Myers Co.
Oregon	Portland	Feenaughty Machinery Co.
Washington	Seattle	" " " "
	Spokane	" " " "
Wyoming	Casper	Studer Tractor & Equipment Co.

WAYNE MANUFACTURING CO.
1201 E. Lexington Street
Pomona, California

PRODUCTS: Wayne Street Sweepers; Wayne Industrial Power Sweepers.

REPRESENTATIVE

California	Palo Alto	1590 Dana Ave.	R.E. Spear
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DISTRIBUTORS - STREET SWEEPERS

Alaska	(Seattle)	The Carrington Co.
Arizona	Phoenix	Road Machinery Co.
California	Eureka	Eureka Boiler Works
	Fresno	Contractors Eqpt. & Supply Co.
	Bakersfield	Brown-Bevis Industrial Eqpt. Co.
	Los Angeles	" " " "
	Sacramento	Western Traction Co.
	San Diego	Brown-Bevis Industrial Eqpt. Co.
	San Francisco	Western Traction Co.
Colorado	Denver	Ray Corson Machinery Co.
Idaho	Boise	Feenaughty Machinery Co.
Montana	Billings	Industrial Equipment Co.
	Kalispell	Treasure State Equipment Co.
Nevada	Las Vegas	Clark County Wholesale Merc. Co.
	Reno	General Equipment Co.
New Mexico	Albuquerque	J.D. Coggins Co.
	(El Paso)	Border Machinery Co.
Oregon	Portland	Feenaughty Machinery Co.
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Seattle	Feenaughty Machinery Co.
	Spokane	" " " "
Wyoming	Casper	Studer Tractor Co.

DISTRIBUTORS - POWER SWEEPERS

Alaska	(Seattle)	The Carrington Co.
Arizona	Phoenix	Road Machinery Co.
California	Bakersfield	Brown-Bevis Industrial Eqpt. Co.
	Eureka	Eureka Boiler Works
	Fresno	Contractors Equipment & Supply Co.
	Los Angeles	R.J. Lison Co.
	Redding	Paul Droscher Sales
	Sacramento	J.R. Rolfe Equipment Corp.
	San Diego	Brown-Bevis Industrial Eqpt. Co.
	San Francisco	Montague-Harris & Co.
	San Jose	Emery Supply Co.
Colorado	Denver	Joe Coursey Equipment Co., Inc.
Idaho	Boise	Feenaughty Machinery Co.
Montana	Billings	Industrial Equipment Co.
Nevada	Las Vegas	City Janitor Supply
New Mexico	(El Paso)	E.D. Flournoy Co.
Oregon	Medford	Robert Dodd Co.
	Portland	" " " "
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Seattle	Material Handling Equipment Co.
Wyoming	Casper	Studer Tractor Co.

THE S.K. WELLMAN CO.
200 Egbert Road
Bedford, Ohio**PRODUCTS:** Velvetouch 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.Wakala
	San Francisco	2166 Palou Ave.	J.S.Mitchell
Oregon	Portland	902 SE Sherman St.	J.J.Lowe

WESTERN DISTRICT MANAGER

California	Los Angeles	240 W.21st St.	G.O.Abell
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WEST COAST MACHINERY, INC.
1801 East Charter Way
Stockton, California**PRODUCTS:** WESTCOASTER Electric Cars (industrial and golf); Road and Farm Machinery; Lift Trucks; Orchard Rldgers; Bulldozers; Tilt-graders; Anglegraders; Power Control Units.**DISTRIBUTORS**

California	Los Angeles	L.J.Lutz Co.
	Oakland	Bay Cities Equipment, Inc.
	Redding	Shasta Truck & Equipment Sales
	N.Sacramento	Industrial Tractor Sales
	San Jose	Bay Cities Equipment, Inc.
	Stockton	Delta Tractor Co.
	"	General Truck Sales
	"	Industrial Parts Supply
	"	Moore Equipment Co., Inc.
	"	99 Used Equipment Sales
	"	Rental Machinery
Colorado	Denver	Hahn Equipment Co.
Idaho	Pocatello	City Motor Co.
Montana	Missoula	Mountain Tractor Co.
Nevada	Reno	Reno Equipment Sales Co.
		Tractor Equipment Co.
Washington	Spokane	Jensen-Bryd Co.
	Walla Walla	Jim C.Russell

WESTERN WELDING & MFG. CORP.
2025 W. Clybourn Street
Milwaukee 3, Wisconsin**PRODUCTS:** Plaster and Mortar Mixers; Concrete Tilters; Road Rollers (1 to 2 ton); Diaphragm Pumps.**FACTORY REPRESENTATIVES**

Arizona	Phoenix	P.O.Box 2406	Reading Overstreet
Washington	Seattle	8221 41st Ave.NE	S.J.(Stan) Frazier

DISTRIBUTORS

Colorado	Denver	Universal Co.
Montana	Billings	Rental Equipment Co.
New Mexico	Albuquerque	New Mexico Equipment Co.
Washington	Seattle	Mutual Materials Co.

WESTFALL AUTOMATIC TAGLINE
345 East Second Street
Los Angeles 12, California**PRODUCTS:** Taglines (Power Shovel Attachment).**WHITE DIESEL ENGINE DIVISION**
The White Motor Co.
1401 Sheridan Avenue
Springfield, Ohio**PRODUCTS:** High Speed Diesel Engines, 100-400 HP; Heavy Duty Slow and Medium Speed Engines for Power Plants, Sawmills, Dredges, Mines, etc., 100 to 2150 HP.**FACTORY BRANCHES**

Alaska	Ketchikan	900 Water St.	Ralph J.Peters
California	Oakland	610 16th St.	David Ury
	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 SE Union Ave.	C.H.Caudy
Washington	Seattle	Fisherman's Term.	F.G.Hudson
Wyoming	Casper	P.O.Box 413	W.E.Garrard

DISTRIBUTORS

Arizona	Phoenix	Arizona Engine & Pump Co.
California	San Diego	National Shipbuilding & Steel Co.

WHITE MANUFACTURING CO.
1227 West Beardsley Avenue
Elkhart, Indiana**PRODUCTS:** Asphalt Plants; Asphalt Heating Kettles; Aggregate Dryers; Concrete Vibrators; Concrete Grinders; Concrete Trowlers; Kerosene Torches and Heaters.**DISTRIBUTORS**

Arizona	Phoenix	Equipment Sales Co.
Colorado	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.
Oregon	Eugene	Howard-Cooper Corp.
	Portland	"
Utah	Salt Lake City	The Lang Co.
Washington	Seattle	Howard-Cooper Corp.
	Spokane	Intermountain Equipment Co.

THE WHITE MOTOR CO.
842 East 79th Street
Cleveland 1, Ohio**PRODUCTS:** White Motor Trucks, Busses and Crane Carriers, Gasoline and L.P.G.; White Industrial Engines; Autocar Trucks, Gasoline and L.P.G.**FACTORY BRANCH MANAGERS**

California	Los Angeles	400 E.Washington	H.P.Strother
	San Francisco	590 Brannan St.	F.H.Ragan
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
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DISTRIBUTORS AND DEALERS

Alaska	Anchorage	Anchorage Motors
	Fairbanks	Fairbanks Motors
	Juneau	Christensen Bros. Garage
Arizona	Kingman	Williston & Ireland
	Phoenix	Truck Equipment Co.
	Willcox	86 Truck Stop
California	Yuma	Cooper's Tractor & Garage
	Bakersfield	Southern Garage
	Burbank	George Cooper Co.
	Eureka	De Bon Motor Co.
	Fresno	Fresno Trailer Co.
	Long Beach	Joe Gill Motor Co.
	Modesto	Anderson's Truck Terminal
	Napa	Regalla Machine Works
	Oakdale	P.E.Van Pelt, Inc.
	Oakland	Oakland White Truck Sales
	Ontario	Cochran & Nichols, Inc.
	Petaluma	John L. Bolzano White Truck Sales
	Redding	Bystle's Truck & Parts
	Riverside	Briggs & Elliott
	Sacramento	Sutton Truck Sales
	San Diego	J.R.Townsend Co., Inc.
	San Jose	San Jose Autocar White Co.
	Santa Rosa	The Miller Motor Co.
	Stockton	Garvey Truck Service, Inc.
	Woodland	Ochoa Bros.
Colorado	Grand Junction	W.R.Hall Sales & Service
Idaho	Boise	Boise White Truck & Eqpt., Inc.
	Lewiston	Henderson Motors
	Roberts	Jackson Auto Service
Montana	Billings	Billings White Truck Co.
	Great Falls	Great Falls White Co.
	Helena	Frontier Motors, Inc.
	Kalispell	Kalispell Service Co.
	Lewistown	Central Motor Sales
	Miles City	Walters' Repair Shop
	Missoula	Taber White Truck Co.
	Wolf Point	Taylor Motors
Nevada	Reno	General Equipment Co.
New Mexico	Albuquerque	Inland White Truck Co.
Oregon	Albany	Oregon Truck Sales, Inc.
	Coos Bay	Harbor Diesel & Supply Co.
	Eugene	Gunderson Bros. Engineering Corp.
	Medford	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.
	"	Northern Commercial Co.(Alaska)
	Spokane	Jones White Truck Co.
	Vancouver	McCoy Auto Co.
Wyoming	Casper	Century White Truck Co., Inc.
	Laramie	Diamond Horseshoe, Inc.
	Newcastle	Newcastle Equipment Co.
	Worland	H & S Motor Co.
	Torrington	Truck Equipment & Supply Co.

**C. I. T. specializes in financing equipment
for Distributors and Contractors**

WHITEMAN MANUFACTURING CO.
 13020 Pierce Street
 Pacolma, California

PRODUCTS: Concrete Finishing Machines; Screeding Machines; Vibrators; Power Buggies; Grinders; Vibratory Screeds; Truck Mixers; Tampers; Screed Stakes.

DISTRIBUTORS

Alaska	Anchorage	Yukon Equipment Co.
Arizona	Phoenix	Arizona-Cedar Rapids Co. (Truck Mixers)
	"	Baker-Thomas Lime & Cement Co.
	"	Southwest Truck Body & Eqt. Co. (Truck Mixers)
California	Tucson	Bogard GMC Co. (Truck Mixers)
	Compton	Compton Truck & Equipment Co. (Truck Mixers)
	El Centro	D-M Equipment Co.
	Bakersfield	Builders Supply & Eqt. Co., Inc.
	Long Beach	International Truck Co. (Truck Mixers)
	Los Angeles	Brown-Bevis Industrial Eqt. Co.
	"	Electric Tool & Supply Co.
	"	Essick Machinery Co.
	"	Garlinghouse-Fremont & Co.
	"	Gridley Equipment Co.
	"	Smith-Booth-Usher Co.
	Porterville	Porterville Farm Implement Co.
	Redding	Oaks Sand & Gravel (Truck Mixers)
	San Bernardino	W-K Equipment Co.
	San Diego	Southern Equipment & Supply Co.
	San Francisco	Edward R. Bacon Co.
	Santa Ana	Blystone Equipment Co.
Colorado	Denver	Western Machinery Co.
Idaho	Boise	Starline Equipment Co.
	Idaho Falls	Parkinson Tractor Co.
	Pocatello	Western Machinery Co.
Montana	Billings	Midland Implement Co.
	Butte	Hall-Perry Machinery Co.
	Great Falls	"
	Helena	"
Nevada	Las Vegas	Steffeck Equipment Co.
	Reno	Inland Service & Supply Co.
	"	Sanford Tractor & Equipment Co.
	"	Sierra Machinery Co.
	"	Richardson & Lovelock (Truck Mixers)
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Oregon	Portland	Andrews & Andrews
Utah	Salt Lake City	C.H. Jones Equipment Co.
Washington	Seattle	Star Machinery Co.
	"	Vehicle Sales, Inc. (Truck Mixers)
	"	Star Machinery Co.
Wyoming	Spokane	Keremi Tractor & Equipment Co.
	Casper	"
	Cheyenne	"

WILLARD CONCRETE MACHINERY SALES CO.
 11700 Wright Road
 Lynwood, California

PRODUCTS: For Ready Mixed Concrete — 1) Portable Weigh Batch Loaders; 1) Weigh Batchers; 3) Mixer Loading Conveyors; 4) Cement Silos; 5) Truck Mixers.

DISTRIBUTORS

Arizona	Phoenix	Arizona Equipment Sales Co.
California	Berkeley	Work Hoist & Body Co.
Colorado	Denver	Accessory Supply Co.
Montana	Billings	Western Construction Equipment Co.
Nevada	Reno	Sierra Machinery Co.
Utah	Salt Lake City	H.H. Nielson Co.
Washington	Seattle	Alr-Mac, Inc.
	Spokane	Spokane Machinery Co.

WILLIAMS BUCKET DIVISION
 Wellman Engineering Co.
 7000 Central Avenue
 Cleveland 4, Ohio

PRODUCTS: Buckets, Clamshell and Dragline; Wood and Stone Grapples.

DISTRIBUTORS

Arizona	Phoenix	Lee Redman Equipment Co.
California	Los Angeles	Santa Fe Equipment Co.
	San Francisco	Coast Equipment Co.
Colorado	Denver	McCoy Company
Idaho	Boise	Western Equipment Co.
Montana	Missoula	Westmont Tractor & Equipment Co.
	Sidney	Tractor & Equipment Co.
New Mexico	Albuquerque	R.L. Harrison Co.
Oregon	Portland	P.L. Crooks Co., Inc.
Utah	Salt Lake City	The Lang Co.
Washington	Seattle	Clyde Equipment Co.
	Spokane	Construction Equipment Co.

Western construction men value the WC Equipment Directory in making emergency contacts with equipment manufacturers and distributors!

WILLYS MOTORS, INC.
 North Cove Boulevard
 Toledo 1, Ohio

PRODUCTS: Jeeps, Trucks (4-wheel drive); Station Wagons and Sedan Deliveries, in both 2 and 4-wheel drive.

SALES OFFICES

California	Emeryville	Willys Sales Corp. K.S. Moyer 5950 Doyle St.
	Los Angeles	Willys Motors, Inc. H.P. Grove 1226 S. LaBrea Ave.
Oregon	Milwaukie	Willys Sales Corp. R.M. Hoen 1935 Washington St., Suite 5

DISTRIBUTORS

Arizona	Phoenix	Ray Korte
Colorado	Denver	Kurland Motors
Idaho	Boise	Gem State Motors
Montana	Billings	George R. Pierce, Inc.
	Great Falls	Robinson Motor Co.
New Mexico	Albuquerque	A. Ray Barker Motor Co., Inc.
Utah	Salt Lake City	Willys Intermountain, Inc.

WILSON ENGINEERING CO.
 3117 West Mission Road
 Alhambra, California

PRODUCTS: Pneumatic Seat Base for Off-Highway and Highway Vehicles.

DISTRIBUTORS

Arizona	Phoenix	Min-A-Con Equipment Co.
California	San Francisco	George M. Philpott Co.
Colorado	Denver	Colorado Builders Supply Co.
Idaho	Boise	Intermountain Equipment Co.
Montana	Helena	Hall-Perry Machinery Co.
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Portland	P.L. Crooks Co.
Utah	Salt Lake City	Foulger Equipment Co.
Washington	Seattle	Evans Engine & Equipment Co.
Wyoming	(Denver)	Colorado Builders Supply Co.

THE WINTER-WEISS CO.
 2201 Blake Street
 Denver 5, Colorado

PRODUCTS: Low-Bed Machinery Trailers; Contractors Bodies; Truck Mounted Rotary Drilling Rigs for blast holes, rock removal, etc.

FACTORY BRANCH

New Mexico	Albuquerque	Manager	Morris G. Clark
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WISCONSIN MOTOR CORP.
 1910 South 53rd Street
 Milwaukee 46, Wisconsin

PRODUCTS: Heavy-duty, Air-cooled, Internal Combustion Engines — 3 to 60 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.
Idaho	Boise	Oakley Wholesale, 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	"
	(Portland)	"
Wyoming	(Billings)	Independent Distributors
	(Denver)	Midland Implement Co., Inc.
	(Salt Lake)	Central Equipment Co.
		Arnold Machinery Co., Inc.

Good distributors seek equipment lines buyers want — Consistent advertising in WESTERN CONSTRUCTION builds buyer acceptance and demand!

C. I. T. CORPORATION

120 Montgomery Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

CHARLES WOOD CO.
906 North Water Street
Milwaukee, Wisconsin

PRODUCTS: Sand Classifiers (Hydraulic); Concentrating Jigs.

WOOLDRIDGE MANUFACTURING DIVISION
Continental Copper & Steel Industries, Inc.
Hendy Avenue
Sunnyvale, California

PRODUCTS: Self-Propelled Scrapers; Tractor-Drawn Scrapers;
Self-Propelled Dumpers and Wagons; Rippers;
Power Control Units.

DISTRICT SALES MANAGERS

California	Costa Mesa	1560 Placentia Ave.	Pat Lamb
	Mountain View	289 Sladky Ave.	H. Jack Reynolds

DISTRIBUTORS

Arizona	Phoenix	Lee Redman Equipment Co.
California	Oakland	C.H. Grant Co.
Oregon	Portland	Nelson Equipment Co.
Washington	Seattle	Hatten Machinery Co., Inc.

WORTHINGTON CORPORATION
Concrete Mch. & Contractors Pump Dept.
Plainfield Division
South Second Street
Plainfield, New Jersey

WORTHINGTON CORPORATION
Portable Compressor & Air Tool Dept.
Holyoke Division
Holyoke, Massachusetts

PRODUCTS: Concrete Agitators; Concrete Mixers; Truck Mixers;
Tunnel Mixers; Tunnel Agitators; Pneumatic
Placers; Pavers; Contractors Pumps; Compressors;
Air Tools; Backfill Tampers; Triplex Tampers;
Clay Diggers; Paving Breakers; Rock Drills;
Wagon Drills.

FACTORY BRANCH MANAGERS

California	Los Angeles	5075 Santa Fe Ave.	J.G. Murphy
	San Francisco	224 Townsend St.	P.L. McManus
Utah	Salt Lake City	118 Social Hall Ave.	P.E. Wilson
Washington	Seattle	2616 Western Ave.	C.D. Cummins

DISTRICT REPRESENTATIVES

California	Los Angeles	5075 Santa Fe Ave.	W.F. Martin
	San Francisco	224 Townsend St.	H. Giffen
Utah	Salt Lake City	118 Social Hall Ave.	P.E. Wilson
Washington	Seattle	2616 Western Ave.	C.W. Crony

DISTRIBUTORS

Alaska	Anchorage	Bashaw Equipment Co.
Arizona	Phoenix	Lee Redman Equipment Co.
California	Bakersfield	Inland Equipment Co.
	Berkeley	West Coast Engine & Eqpt. Co.
	Los Angeles	Orrin W. Fox
	"	LeRoi-Rlx Machinery Co.
	Oakland	Mixermobile Sales & Service
	San Bernardino	H.P. Kingsley Co.
	Sacramento	Western Equipment & Supply
	San Diego	Kenton Equipment Co.
Colorado	Denver	Power Equipment Co.
	Dove Creek	Dove Creek Equipment & Supply
	Grand Junction	Junction Bit & Tool
Idaho	Boise	Idaho Chain & Sprocket
	Pocatello	Rocky Mountain Machinery Co.
Montana	Helena	Caird Engineering Works
	Missoula	Miller Machinery Co.
Nevada	Elko	A-D Machinery Co.
New Mexico	Albuquerque	Leonard Motor Co.
	Roswell	Smith Machinery Co.
Oregon	Eugene	Western Equipment Co.
	Portland	"
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Seattle	Star Machinery Co.
	Spokane	"
Wyoming	Casper	Keremi Tractor Co.
	Cheyenne	"

The key to job performance is modern equipment made by reputable manufacturers, sold and serviced by reputable distributors . . . buy your equipment from WESTERN CONSTRUCTION advertisers!

WRIGHT POWER SAW & TOOL CORP.
Subsidiary of Thomas Industries, Inc.
410 South Third Street
Louisville 2, Kentucky

PRODUCTS: Pneumatic Power Saw (Model AS-221).

DISTRIBUTORS

Alaska	Anchorage	Craig Taylor Equipment Supply
Arizona	Phoenix	Shriver Machinery Co.
California	San Francisco	The Rix Company
	Santa Rosa	John Sloss Co.
Colorado	Denver	Colorado Builders Supply Co.
Idaho	Boise	Intermountain Equipment Co.
	Pocatello	"
Montana	Billings	Hall-Perry Machinery Co.
	Butte	"
	Great Falls	"
	Missoula	"
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
	"	C & E Company
Oregon	Portland	Cramer Machinery Co.
	"	Weed Control Service
Utah	Salt Lake City	Cate Equipment Co.
Washington	Seattle	Star Machinery Co.
	Spokane	"

WYLIE MANUFACTURING CO., INC.
640 North Meridian Street, P.O. Box 7086
Oklahoma City, Oklahoma

PRODUCTS: "HEAT-A-MIX" — Tailgate mixer for remixing and
reactivating stockpile asphalt.
"PATCHMOBILE" — Portable hot asphalt patch
machine.
"ROADMASTER" — 15-20 ton asphalt plant,
portable or stationary.

WESTERN REPRESENTATIVE

Idaho	Boise	307 S. Phillippi St.	Doug Gibson
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DISTRIBUTORS

Alaska	Anchorage	Craig Taylor Equipment Co.
Arizona	Phoenix	Western Machinery Co.
California	Berkeley	West Coast Engine & Equipment Co.
	Los Angeles	Essick Machinery Co.
	Sacramento	Inland Equipment Co.
	Stockton	Equipment Sales & Service
Colorado	Denver	Western Machinery Co.
Idaho	Boise	Feenaughty Machinery Co.
Montana	Butte	Pioneer Equipment & Supply Co.
New Mexico	Albuquerque	Municipal Equipment & Supply Co.
Oregon	Portland	Nelson Equipment Co.
Utah	Salt Lake City	Western Machinery Co.
Washington	Seattle	Totem Equipment Co.
	Spokane	"
Wyoming	Casper	Studer Tractor & Equipment Co.
	Cheyenne	"

YUBA MANUFACTURING CO.
351 California Street
San Francisco 4, California

PRODUCTS: Internal Drive Head Pulleys; Dredges (Bucket
Ladder and Hydraulic); Stockton-Yubabilt Clamshell
Buckets; Screens; Conveyors; Hoists.

DISTRIBUTORS

Arizona	Phoenix	Arizona Cedar Rapids Co.
California	Alhambra	Frank Cox Equipment Co.
	Los Angeles	Brown-Bevis Industrial Eqpt. Co.
	Oakland	Bay Cities Equipment Co.
	Perkins	Clark Welding Works
	Stockton	Stockton Iron Works
Idaho	Boise	Idaho Sprocket & Machine Works
	Pocatello	Pocatello Chain & Sprocket, Inc.
Montana	Missoula	Westmont Tractor & Equipment
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Ashland	Fowler Engineering Sales Co.
	Portland	P.L. Crooks
Texas	El Paso	Lively Equipment Co.
Utah	Salt Lake City	Kimball Equipment Co.
Washington	Seattle	Jack Sahlborg Equipment Co.

ZUMAR INDUSTRIES
1608 Essex Street
Los Angeles 21, California

PRODUCTS: Flanged Channel Steel Posts — Sign, Guide and
Fence Posts; Culvert Markers and Reflector Units —
Complete units for highway, street and traffic lane
delineation; Baked Enamel Highway, Traffic and
Safety Signs — Supergloss Baked Enamel, Scotchlite
Reflectorized; Custom Made Signs.

DISTRIBUTORS

Write for name of your nearest dealer.

**C. I. T. finances installment sales
of equipment for many Distributors**

*the two natural regions of the
national construction market*



**WESTERN
CONSTRUCTION**

**selling the West is a rugged 11-state job
... but you don't need 11 magazines!**

WESTERN

CONSTRUCTION

covers it ALL!



DISTRIBUTORS' SECTION

CONTAINS . . .

Names of Distributors arranged alphabetically by states and cities, and alphabetically by companies within cities, with their addresses, personnel, phone numbers, branch offices, and lines handled.

HE CARRINGTON CO. (Branch)..... ANCHORAGE

PH: 2-1945

Branch Mgr.....C.E.Kiger Sales.....Robt.O.Baum

SEE MAIN OFFICE LISTING UNDER SEATTLE

RAIG TAYLOR EQUIPMENT & SUPPLY CO..... ANCHORAGE

Post Road PH: 6-5815

President.....Craig Taylor Service Mgr.....Harold Miller
Parts Mgr.....A.Modica

LINES HANDLED

Alloy Steel & Metals Co.
American Rubber Mfg. Co.
Barnes Manufacturing Co.
Browning Manufacturing Co.
Brunner & Lay, Inc.
Cataphote Corp.
Champion Manufacturing Co.
Charles Machine Works
The Conveyor Company
Earle M.Jorgensen Co.
Flaherty Manufacturing Co.
Flexible Steel Lacing Co.
Good Roads Machinery Co.
Hasselbalch & Sons
Hayward Company
Hlab Cranes
Hose Accessories Co.
The Jay Corporation

LeRoi-Westinghouse Co.
Link-Belt Speeder Corp.
Master Vibrator Co.
Metal Forms Corp.
Muller Manufacturing Co.
Pacific Wire Works
Pioneer Motorbore Drills
Rust-Oleum Corp.
Standard Steel Works
Tractor Spreader Co.
Transport Trailers, Inc.
Toledo Pressed Steel Co.
Vibro-Plus Products, Inc.
Winslow Govt.Std.Scale Works
Wire Rope Corp. of America
Wright Power Saw & Tool Corp.
Wylie Mfg. Co., Inc.
Young Iron Works

EVANS ENGINE & EQUIPMENT CO., INC. (Branch)... ANCHORAGE

P.O.Box 894 PH: 6-5795

Manager.....Warren J.Sullivan

SEE MAIN OFFICE LISTING UNDER SEATTLE

NORTHERN COMMERCIAL CO. (Branch).....ANCHORAGE

PH: 3-5051

Manager.....Gragg Gilkey

SEE MAIN OFFICE LISTING UNDER SEATTLE

YUKON EQUIPMENT, INC. (Branch)..... ANCHORAGE

711 6th Street PH: 2-5101

Manager.....Glen D.Chambers

SEE MAIN OFFICE LISTING UNDER SEATTLE

Save your Equipment Directory for emergency contacts with equipment distributors and manufacturers . . . it's quick and easy! Tell manufacturers and distributors you saw it in WESTERN CONSTRUCTION—it helps improve WC's service to you!

Western construction men value the WC Equipment Directory in making emergency contacts with equipment manufacturers and distributors!

NORTHERN COMMERCIAL CO..... SEATTLE

811 First Avenue

PH: MU 2300

President.....V.Richmond, Jr. Vice President.. H.D.Stephens
Secy-Treas.....John E.Larson Mgr.Mach.Dept... Truman Sage
Parts Mgr.....Wm.M.Bell Service Mgr.....John R.Heggen

BRANCH OFFICES

Anchorage	Gragg Gilkey	Manager	PH: 3-5051
Fairbanks	H.A.Bleffen	"	PH: 2176
Juneau	Melvin S.Roe	"	PH: 867
Ketchikan	D.J.McDonald	"	PH: 9724
Nome	Steve Andersen	"	PH: MA 22

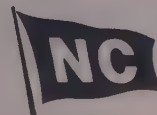
LINES HANDLED

Athey Products Corp.
Blackhawk Manufacturing Co.
Blaw-Knox Company
Broderick & Bascom Rope Co.
Bucyrus-Erie Co.
Caterpillar Tractor Co.
Chain Belt Co.
Clayton Manufacturing Co.
DeWalt, Inc.
Dotmar Industries, Inc.
Essick Manufacturing Co.
Fleco Corporation
General Electric Co.
Goodyear Tire & Rubber Co.
Goulds Pumps, Inc.
W.E.Grace Mfg. Co.

The Hyster Company
Joy Manufacturing Co.
Kohler Company
LaCrosse Trailer Co.
Lincoln Electric Co.
Linde Air Products Co.
McCulloch Motors Corp.
Herman Nelson Division
Pioneer Engineering Works
Preco, Inc.
Ramset Fasteners, Inc.
Sauerman Bros., Inc.
Skagit Steel & Iron Works
Stoody Company
White Manufacturing Co.
Witte Engine Works

DEPENDABLE

Equipment & Supplies Sales Parts & Service



Northern Commercial Company

Anchorage • Fairbanks • Juneau
Ketchikan • Nome • Whitehorse • Dawson
Home Office: Colman Bldg., Seattle

**C. I. T. finances installment sales
of equipment for many Distributors**

NORTHERN SUPPLY, INC. ANCHORAGE
P.O.Box 439 PH: 3-5191

President.....H.A.Faroe

Vice President.. John Bagoy
Secy-Treas..... D.A.Faroe**LINES HANDLED**

American Optical Co.
Atlas Powder Co.
American Hoist & Derrick
O.Ames Company
Apex Machine Tool Co.
ARO Equipment Co.
Ampco Metal Co.
Atlas Press Co.
Buckingham Tool Pouches
Bullard Safety Equipment Co.
Baystate Abrasive Products Co.
Bonney Forge & Tool
Burgess Battery Co.
Binney-Smith International
Brown & Sharpe
Boice Crane Co.
Carlson Sullivan Corp.
Colorado Fuel & Iron Corp.
Champion DeArment Co.
Collins Axe & Tool
Chesterton Packing Co.
Coffing Hoist Co.
Henry Disston & Sons
Dayton Rubber Co.
Dixon Valve & Coupling
Duff-Norton Co.
ESCO Steel Co.
Flexo Belt Lacing
Federated Metals
Fairbanks Morse Co.
John Flocker Co.
Gardner-Denver Co.
Goodall Rubber Co.
General Petroleum Corp.
Greenlee Tool Co.
General Electric, Welding Div.
General Hardware Co.
Huot Corporation
Hein Warner Corp.
Heller Brothers Co.
Indestro Manufacturing Co.

Jeffery Manufacturing Co.
Jacobs Manufacturing Co.
Kennedy Manufacturing Co.
Ker-O-Kil Manufacturing Co.
Keuffel & Esser
Mathias Klein & Sons
Liddicoat Bits & Steel
Lug-All-Hoist Corp.
Milwaukee Tool Corp.
Mephisto Tool Co.
Marshalltown Mfg. Co.
Master Rule Co.
National Twist Drill Co.
Nordberg Manufacturing Co.
Oster-Cummins Tool Corp.
Paine Machine Screw Co.
Permatex Corporation
Pal-Weld Manufacturing Co.
P & H Company
Ridge Tool Co.
Reed Manufacturing Co.
Rieff & Nestor
Rice Pump Co.
Red Devil Manufacturing Co.
L.S.Starrett Co.
Skil Tool Corp.
Syntron Corp.
Salem Tool Co.
Simonsen Industries
Sequatchie Handle Works
Star Manufacturing Co.
Tokheim Corporation
Upson Walton Co.
Union Taps & Dies
Victor Equipment Co.
Vulcan Tool Mfg. Co.
Vincent Tool Co.
Wagner-Lockheed Auto. Eqpt.
Winter Brothers
Whittaker Cable Corp.
Warren Axe & Tool Co.

THE CARRINGTON CO. (Branch) FAIRBANKS
N.Turner Street PH: 2181VP & Manager...G.A.Gustafson Office Mgr..... V.P.Guzzardi
Parts Mgr..... J.H.Chandler

SEE MAIN OFFICE LISTING UNDER SEATTLE

NORTHERN COMMERCIAL CO. (Branch) FAIRBANKS
PH: 2176

Manager.....H.A.Biefgen

SEE MAIN OFFICE LISTING UNDER SEATTLE

YUKON EQUIPMENT, INC. (Branch) FAIRBANKS
320 Second Avenue PH: 2135 - 2136

Manager.....Alfred J.Lomen, Jr.

SEE MAIN OFFICE LISTING UNDER SEATTLE

NORTHERN COMMERCIAL CO. (Branch) JUNEAU
PH: 867

Manager.....Melvin S.Roe

SEE MAIN OFFICE LISTING UNDER SEATTLE

NORTHERN COMMERCIAL CO. (Branch) KETCHIKAN
PH: 9724

Manager.....D.J.McDonald

SEE MAIN OFFICE LISTING UNDER SEATTLE

YUKON EQUIPMENT, INC. (Branch) KETCHIKAN
P.O.Box 174 PH: 4513

Manager.....Floyd M.Benedict

SEE MAIN OFFICE LISTING UNDER SEATTLE

ALASKA'S

Largest Distributor of Industrial Supplies



NORTHERN SUPPLY, INC.

*Distributors***Electrical — Industrial — Mining Supplies****ANCHORAGE****ALASKA****POST ROAD****C. I. T. CORPORATION**

120 Montgomery Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

NORTHERN COMMERCIAL CO. (Branch).....NOME
PH: MA 22

Manager.....Steve Andersen

SEE MAIN OFFICE LISTING UNDER SEATTLE

THE CARRINGTON CO.SEATTLE
91 Columbia Street PH: MA 0804

President.....A.F.Erickson Vice President..G.A.Gustafson
Vice President..B.A.Anderson Alaska Sales.....A.M.Logan

BRANCH OFFICES

Anchorage	C.E.Kiger Robt.O.Baum	Branch Mgr. Sales	PH: 2-1945
Fairbanks	G.A.Gustafson V.P.Guzzardi J.H.Chandler	VP & Manager Office Manager Parts Manager	PH: 2181

LINES HANDLED

Allied Equipment Co. Barber-Greene Co. Clayton Manufacturing Co. Cleaver Brooks Co. Columbia-Geneva Steel Corp. Construction Machinery Co. Corley Manufacturing Co. Delta Manufacturing Co. Dempster Bros., Inc. Diamond Iron Works Drott Manufacturing Co. Eagle Iron Works Elmco Corp. Electric Steel Foundry Co. E.D.Ethnyre Co. Fairbanks, Morse Co. Four Wheel Drive Auto Co. Gallion Iron Works & Mfg. Co. Goodman Manufacturing Co. Gruendler Crusher & Pulv. Co. Harnischfeger Corp. (P & H) The Heil Company Highway Equipment Co. The Frank G.Hough Co. Ingersoll-Rand Co.	International Harvester Co. Isaacson Iron Works Jacuzzi Manufacturing Co. Kolman Manufacturing Co. H.C.Little Co. Mail Tool Co. Maxon Construction Co. Pacific Car & Foundry Co. Palmer Electric Co. The Ready Power Co. Rodgers Hydraulic Press Co. Salem Tool Co. Sasgen Derrick Co. Silent Glow Oil Burner Co. Shovel Supply Co. Southwest Welding & Mfg. Co. Sterling Machinery Co. Superior Iron Works Templeton-Kenly Corp. Transittier Company U.S.Rubber Co. Wausau Iron Works Wayne Manufacturing Co. Wisconsin Engine Co. Young Iron Works
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YUKON EQUIPMENT, INC.SEATTLE
327 Colman Bldg. PH: SE 6355

President.....Everett P.Wood VP & Sales Mgr. N.A.Ruthruff

BRANCH OFFICES

Anchorage	711 6th St.	Glen D.Chambers	PH: 2-5101
Fairbanks	320 2nd Ave.	A.J.Lomen, Jr.	PH: 2135
Ketchikan	P.O.Box 174	F.M.Benedict	PH: 4513

LINES HANDLED

Aeroquip Corporation Allied Steel & Tractor Products Allis-Chalmers - Buda Div. Allis-Chalmers Mfg. Co. - Construction Machinery Div. American Chain & Cable Co. Wright Hoist Div. American Tractor Corp. W.R.Ames Company Athens Plow Co. Badger Machine Co. Belleville Manufacturing Co. Berger Engineering Co. Binks Manufacturing Co. Blaw-Knox Company Bolens Products Div. Wm.Bros Boiler & Mfg. Co. Brunner & Lay, Inc. Buffalo-Springfield Roller Co. C H & E Manufacturing Co. Campbell Detachable Cab Co. Canton Manufacturing Co. Champion Blower & Forge Co. Clementina, Ltd. Curtis Manufacturing Co. Decatur Pump Co. Detroit Harvester Co. R & J Dick Company R.E.Dietz Company Dixon Valve & Coupling Co. Edwards Manufacturing Co. Electric Steel Foundry L.S.Farner Co. Fiske Bros. Refining Co.- Lubriplate Div. Flink Company Gar Wood Industries, Inc. Geo.Haiss Manufacturing Co. Hendrix Mfg. Co., Inc. Henry Manufacturing Co., Inc. Hillman Drilling Co.	Hobart Manufacturing Co. Hydraulic Supply & Mfg. Co. Jaeger Machine Co. C.S.Johnson Co. Edward E.Johnson Co. King Manufacturing Co. L M L Engineering Co. Leschen Wire Rope Div. H.K.Porter Co., Inc. Lincoln Engineering Co. Littleford Bros., Inc. Lockwood Grader Corp. Mallory Logging Eqpt. Co. Malsbary Manufacturing Co. Metzgar Company D.W.Onan & Sons, Inc. Oshkosh Motor Truck, Inc. Ottawa Steel Products, Inc. Owen Bucket Co. Pacific Car & Foundry Co. Pacific Wire Works Pettibone-Mulliken Corp. Pettibone-Wood Mfg. Co. Ridge Tool Co. Rodgers Hydraulic, Inc. Scheu Products Co. Schield Bantam Co. Shovel Supply Co. Templeton, Kenly & Co. The Thew Shovel Co. Thor Power Tool Co. Timken Roller Bearing Co. Tokheim Pump Co. Tractomotive Corp. Universal Engineering Corp. Viber Company Wayne Pump Co. Whiteman Manufacturing Co. Winslow Govt.Std.Scale Works Wisconsin Motor Corp. Young Iron Works
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***selling the West's
construction
market
is a rugged
11-state job ...***



***the key is
good
distributors and***

WESTERN

CONSTRUCTION



**C. I. T. specializes in financing equipment
for Distributors and Contractors**

ARIZONA MACHINERY CO. (Branch) BUCKEYE
225 N. 1st Street PH: DU 6-4466

Manager.....P.Kraznarich

SEE MAIN OFFICE LISTING UNDER PHOENIX

THE O.S.STAPLEY CO. (Branch) BUCKEYE
PH: DU 6-4491

Manager.....Miller Beechy

SEE MAIN OFFICE LISTING UNDER PHOENIX

ARIZONA MACHINERY CO. (Branch) CASA GRANDE
601 E. Main PH: TE 6-7481

Manager.....Gene Kyle

SEE MAIN OFFICE LISTING UNDER PHOENIX

THE O.S.STAPLEY CO. (Branch) CASA GRANDE
PH: TE 6-7475

Manager.....Sam Stapley

SEE MAIN OFFICE LISTING UNDER PHOENIX

THE O.S.STAPLEY CO. (Branch) CHANDLER
PH: YO 3-6679

Manager.....Dean Stapley

SEE MAIN OFFICE LISTING UNDER PHOENIX

ARIZONA MACHINERY CO. (Branch) COOLIDGE
Arizona Boulevard PH: 4454

Manager.....Ray Osborn

SEE MAIN OFFICE LISTING UNDER PHOENIX

THE O.S.STAPLEY CO. (Branch) COOLIDGE
PH: PA 3-5427

Manager.....Harley Hilgeman

SEE MAIN OFFICE LISTING UNDER PHOENIX

ARIZONA MACHINERY CO. (Branch) FLAGSTAFF
24 S. Beaver PH: 421

Manager.....Ed. Mays

SEE MAIN OFFICE LISTING UNDER PHOENIX

THE O.S.STAPLEY CO. (Branch) GLENDALE
PH: YE 7-9241

Manager.....Houston Williams

SEE MAIN OFFICE LISTING UNDER PHOENIX

THE O.S.STAPLEY CO. (Branch) MARICOPA
PH: 17

Manager.....Marvin Scott

SEE MAIN OFFICE LISTING UNDER PHOENIX

ARIZONA MACHINERY CO. (Branch) MESA
Baseline & Chandler PH: WO 4-5366

Manager.....George Brenner

SEE MAIN OFFICE LISTING UNDER PHOENIX

THE O.S.STAPLEY CO. (Branch) MESA
*PH: WO 4-8644

Manager.....Thomas Stapley

SEE MAIN OFFICE LISTING UNDER PHOENIX

ARIZONA CEDAR RAPIDS CO. PHOENIX
1802-10 W. Jackson Street PH: AL 3-8205; AL 8-5433

Owner.....I.L.Reuter

Sales Manager... Frank T.Reuter
Parts Manager... Ken Bandy

LINES HANDLED

Ralph B.Carter Co.
Cleaver Brooks Co.
Four Wheel Drive Auto Co.
Galion Iron Works & Mfg. Co.
Yuba Manufacturing Co.

Hanson Clutch & Machinery Co.
Iowa Manufacturing Co.
Klauwer Manufacturing Co.
Gordon Smith Co.
Wausau Iron Works

ARIZONA EQUIPMENT SALES, INC. PHOENIX
2812 Grand Avenue PH: AL 8-3481

President.....Joe E.Angle
Sales Manager...Joe B.Rickel

Vice President.. L.L.Jarrett
Service Mgr..... H.M.Olson
Parts Manager... H.M.Olson

LINES HANDLED

Braden Winch Co.
Wm.Bros Boiler & Mfg. Co.
Buda Div., Allis-Chalmers
Harnischfeger Corp. (P&H)
O.K.Machinery Division
Oliver Corporation

Pacific Wire Rope Co.
Peterbilt Trucks
Pettibone Mulliken Corp.
Simplicity Engineering Co.
Tractormobile (Wagner)
Willard Concrete Machy. Sales

ARIZONA MACHINERY CO. PHOENIX
2705 W. Thomas Road PH: AP 8-3571

President.....J.H.Deaderick
Sales Manager...F.T.Elder

Vice President.. F.T.Elder
Parts Manager... Buster Burris
Service Mgr..... Clarence Brown

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Casa Grande
Coolidge
Flagstaff
Mesa

225 N.1st St.
601 E.Main
Arizona Blvd.
24 S.Beaver
Baseline &
Chandler
S.3rd & 38th St.

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Ray Osborn
Ed. Mays
Geo.Brenner

PH: DU 6-4466
PH: TE 6-7481
PH: 4454
PH: 421
PH: WO 4-5366

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Jim D.McGuire PH: MA 4-2557

LINES HANDLED

Athey Products Corp.
Broderick & Bascom Rope Co.
Caterpillar Tractor Co.

Electric Steel Foundry Co.
Hyster Company
Preco, Inc.
Unimatic Corp.

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Manager.....Howard Brown

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GALION IRON WORKS & MFG. CO.

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DISTRIBUTORS' SECTION

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President..... Paul O. Miller Parts Manager... Gene I. Wendt
Service Mgr..... Stanley Bryant

LINES HANDLED

Cummins Engine Co., Inc. Cummins Engines, parts & service
Aeroquip Corporation High pressure hose & fittings

EQUIPMENT SALES CO......PHOENIX
720 S. 19th Avenue PH: AL 8-7151

President..... Frank Fogal, Jr. Vice President.. Fred A. Heinzel
Manager..... Helen Lee Burg Sales Manager... E.C. Stevens
Parts Manager... Ed. Smith Service Mgr..... Sam Spanos

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Alloy Steel & Metals Co. Link-Belt Speeder Corp.
Boston Woven Hose & Rubber Co. Marlow Pumps
C H & E Manufacturing Co. Mixermobile Distributors, Inc.
Campbell Equipment Co. Pettibone-Wood Mfg. Co.
Chisholm-Moore Hoist Corp. Prime Mover Company
Dixon Valve & Coupling Co. Morse-Starrett Products Co.
Duff-Norton Mfg. Co. D.W. Onan & Sons
Essick Manufacturing Co. "Quick-Way" Truck Shovel Co.
Robert G. Evans Co. Richmond Screw Anchor Co.
Gar-Bro Manufacturing Co. Rosco Manufacturing Co.
Gar Wood Industries, Inc. T.L. Smith Co.
W.E. Grace Mfg. Co. Sterling Wheelbarrow Co.
H & L Tooth Co. Symons Brothers Co.
Heltzel Steel Form & Iron Co. Toledo Pressed Steel Co.
John W. Hobbs Corp. White Manufacturing Co.
Huber-Warco Co. Wilshire Power Sweeper Co.
Hyster Company Winslow Govt. Std. Scale Works
Jones & Laughlin Steel Corp. Wisconsin Motor Corp.
Kolman Manufacturing Co. Wood Shovel & Tool Co.

J.T. JENKINS CO. (Branch)PHOENIX
2211 W. McDowell PH: AL 4-7375

Manager..... L.G. Crayton

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Secy-Treas..... M.H. Fleming Sales Manager.... Sam W. Baar
Parts Manager... Vard E. Durfee Service Mgr..... J.F. McGinnis

BRANCH OFFICE

Tucson John M. Turner Manager PH: AX 8-1397

LINES HANDLED

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American Chain & Cable Co. Pacific Car & Foundry Co.
W.L. Childers Co. Parsons Company
Dumcrete Div., Pioneer Engineering Co.
Maxon Construction Co. Schramm, Inc.
Elgin Corporation Shield Bantam Co.
E.D. Etnyre & Co. Stow Manufacturing Co.
Koehring Company

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610 S. 19th Avenue PH: AL 8-3794

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Manager..... Ralph Lane Parts Mgr..... Bill Thornburg
Service Mgr..... A.C. Barbee

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American Brattice Cloth Corp. Pacific Pumps, Inc.
Atlas Brass Foundry Co. Republic Rubber Co.
Coffing Hoist Co. John A. Roebing's Sons Corp.
Coppus Engineering Co. Round Los Angeles Chain Corp.
Culman Wheel Co. Ridge Tool Co.
Darling Valve & Mfg. Co. Silent Hoist & Crane Co.
Dixon Valve & Coupling Co. Simplex Wire & Cable Co.
Duff-Norton Mfg. Co. Smith Engineering Works
Elizalde & Co. Thew Shovel Co.
Garlinghouse, Fremont & Co. U.S. Rubber Co.
Hendrie Belting & Rubber Co. Viber Company
Hewitt-Robins, Inc. Victaulic, Inc.
Kershaw Manufacturing Co. Vulcan Iron Works
Lake Shore Engineering Co. Wuldridge Scrapers
Ledeon Manufacturing Co. Worthington Corp.
Minneapolis-Moline Co. Yeomans Brothers Co.

ROAD MACHINERY CO......PHOENIX
716 S. 7th Street PH: AL 8-7981

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Sales Mgr..... Harold R. Bone Parts Mgr..... L.A. Dickinson
Service Mgr..... Zan C. Pauley

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Westinghouse Co. LeTourneau-Westinghouse Co.
Asplundh Chipper Co. L.R. Murphy Co.
Barber-Greene Co. M-B Corporation
Bucyrus-Erie Co. Miller Spreader Corp.
Buffalo-Springfield Roller Co. Ready Power Co.
Browning Manufacturing Co. Sauerman Bros.
Gorman-Rupp Co. Standard Steel Works
Hy-Way Machinery Co. Vibro-Plus Products
Wayne Manufacturing Co.

MIN-A-CON EQUIPMENT CO......PHOENIX
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Office Mgr.....A.V.Ehrman
Parts Mgr.....L.G.Edwards

Secretary.....E.M.Michels
Sales Mgr.....Thomas Kennedy
Service Mgr.....L.G.Edwards

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Austin-Western Works
Baldwin-Lima-Hamilton Corp.
Cleveland Trencher Co.
Eagle Iron Works
Gar-Bro Manufacturing Co.
Hendrix Manufacturing Co.
Insley Manufacturing Corp.
Jaeger Machine Co.
Jetco, Inc.

Jones & Laughlin Steel Corp.
Lebus Manufacturing Co.
Madsen Iron Works, Inc.
Master Vibrator Co.
Miller & Smith Mfg. Corp.
Quincy Compressor Co.
Shovel Supply Co.
Thor Power Tool Co.
Wright Power Saw & Tool Corp.

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734 W. Van Buren Street

PH: AL 3-2122

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Vice President..T.H.Stapley
Secy-Treas.....L.E.Stapley

General Mgr.....L.E.Stapley
Gen.Sales Mgr...T.H.Stapley
Ind. Sales.....H.E.Walters

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Chandler	Dean Stapley	"
Coolidge	Harley Hilgeman	"
Glendale	Houston Williams	"
Maricopa	Marvin Scott	"
Mesa	Thomas Stapley	"

PH: DU 6-4491
PH: TE 6-7475
PH: YO 3-6579
PH: PA 3-5427
PH: YE 7-9241
PH: 17
PH: WO 4-8644

LINES HANDLED

Andwall Manufacturing Co.
American Tractor & Equip. Co.
Be-Ge Manufacturing Co.
Blaw-Knox Division
Bonded Scale & Machine Co.
The Burch Corporation
Carver Pump Co.
The Conveyor Co.
Davenport Besler Corp.
Dotmar Industries, Inc.
Fairbanks Morse Co.
The Fairfield Engineering Co.
The Foote Co., Inc.
Gardner-Denver Co.
Gilson Bros. Co.
Gledhill Road Machinery Co.
Goodyear Tire & Rubber Co.
Hetherington & Berner, Inc.
Huber Manufacturing Co.
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International Harvester Co.
The Lauson Co.
The Lincoln Electric Co.
Lull Manufacturing Co.
Manitowoc Engineering Corp.
M-R-S Manufacturing Co.
F.E.Myers & Bro. Co.
Ottawa Steel Products, Inc.
Pacific Car & Foundry Co.
Palmer Electric Mfg. Co.
Ready Power Co.
Sasgen Derrick Co.
Southwest Welding & Mfg. Co.
True Temper Corp.
Unit Crane & Shovel Corp.
Universal Motor Co.
H.Wensel Tent & Duck Co.
Winslow Govt.Std.Scale Works
Wincharger Corp.
Worthington Corp.
Wyzenbeek & Staff, Inc.

STATE TRACTOR & EQUIPMENT CO. PHOENIX

407 S. 17th Avenue

PH: AL 2-1731

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Secy-Treas.....W.H.Bridges
Parts Manager...Robert Allison

Vice President..J.R.Robinson
Sales Mgr.....Porter Van Ness
Service Mgr.....John Willock

BRANCH OFFICE

Tucson

1202 N.Main Ave.G.Abraham

PH: 4-2335

LINES HANDLED

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Butler Bin Co.
Chain Belt Co.
Colorado Fuel & Iron Co.
Dixon Valve & Coupling Co.

Drott Manufacturing Co.
Gradall Division
Frank G.Hough Co.
Ingersoll-Rand Co.
International Harvester Co.
Teale & Co.

SUPERIOR EQUIPMENT CO. PHOENIX

2402 S. 19th Avenue

PH: AL 3-2116

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Manager.....John M.Hazelett
Parts Mgr.....John Domanko

Vice President..John F.Fisher
Sales Mgr.....R.F.Hazelett
Service Mgr.....Bert Lavendar

LINES HANDLED

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Apache Powder Co.
Baker-Roos, Inc.
Baughman Manufacturing Co.
Be-Ge Manufacturing Co.
Brunner & Lay, Inc.
Buck Equipment Co.
J.I.Case Co.
Cataphote Corp.
Champion Blower & Forge Co.
Chattanooga Wheelbarrow Co.
Chausse Mfg. Co., Inc.
Davey Compressor Co.
Felker Manufacturing Co.
Frontier Manufacturing Co.
Gar Bro Manufacturing Co.
General Road Machines, Inc.
Gledhill Road Machinery
Hendrix Manufacturing Co.
Lebus Rotary Tool Works, Inc.
Little Giant Crane & Shovel Co.
Little Giant Products, Inc.

Mall Tool Co.
Mar-Rail Conveyor Co.
Muller Machinery Co.
Murphy Diesel Co.
Murphy Scales
Napco Construction Co.
Napco Industries, Inc.
Noble Company
Northwest Engineering Co.
Pacific Coast Brush Co.
Patent Scaffolding Co.
Quincy Compressor Co.
Rice Pump & Machine Co.
Rogers Iron Works Co.
Safety Traffic Cone Corp.
Sauerma Bros., Inc.
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ON THIS PAGE

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820 N. 17th Avenue PH: AL 8-8531Manager.....J.P.Keller
Parts Manager...Les HallSales Manager...R.B.George
Service Manager.Paul Howard**LINES HANDLED**

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Amer. Push Broom & Brush Co.
Atlas Conveyor Co.
Baughman Manufacturing Co.
Bay City Shovels
Beebe Bros.
Brunner & Lay, Inc.
Canton Cast Products Co.
Champion Mfg. Co.
Chicago Pneumatic Tool Co.
CIMCO
Clark Equipment Co.
Cleveland Vibrator Co.
C.P.Concrete Eqt. Co.
Construction Machinery Co.
Dixon Valve & Coupling Co.
Dreyer Vibrator Co.
Elanco Corporation
Electric Tapper & Eqt. Co.
Flaherty Manufacturing Co.
Gar-Bro Manufacturing Co.
Gates Rubber Co.
Good Roads Machinery Co.
Lippmann Engineering Co.
Hardy Scales Co.
Littleford Bros., Inc.

Maginniss Power Tool Co.
Minneapolis-Moline Co.
L.R.Murphy Scale Co.
Nelson Iron Works
Neo-Flasher Mfg. Co.
Ottawa Steel, Inc.
Page Engineering Co.
Pak-Mor Manufacturing Co.
Pioneer Engineering Works
Pitman Manufacturing Co.
Quaker Pacific Rubber Co.
Quincy Compressor Co.
Radiator Supply Co.
Reese Engineering Co.
Salem Tool Co.
Sanstorm Manufacturing Co.
Sasgen Derrick Co.
Shovel Supply Co.
Star Wire Screen & Iron Works
Superior-Lidgerwood-Mundy Corp.
Tampo Manufacturing Co.
Templeton, Kenly & Co.
Thurman Machine Co.(Scale Div.)
Union Wire Rope Corp.
Universal Dredge Mfg. Co.
Walter Motor Truck Co.
Winslow Govt.Scale Wks., Inc.

ARIZONA MACHINERY CO. (Branch) TUCSON
S. 3rd & 38th Streets PH: MA 4-2557

Manager.....Jim D.McGuire

SEE MAIN OFFICE LISTING UNDER PHOENIX

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PH: AX 8-1397

Manager.....John M.Turner

SEE MAIN OFFICE LISTING UNDER PHOENIX

RONSTADT HARDWARE CO. TUCSON
70 N. 6th Street PH: 3-3691President.....J.W.Briscoe
Parts Manager...Jim McCallVice President..Gilbert Ronstadt
Service Mgr.....Earl Nay**LINES HANDLED**

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C.F.&I. Grader Blades
Delta Power Tools
DeWalt Radial Saws
Drott Bulclams & Loaders
Fairbanks-Morse Co.
Gallion Iron Works
Goodyear Mechanical Products
Frank G.Hough - Payloaders

International Harvester - Ind.
Internatl. Harvester Power Units
Internatl. Harvester - Gen.Line
MRS Manufacturing Co.
Miller Falls Tools
Shopsmith
Skill, Inc. - Power Tools
Southwest Welding Mfg. Co.
Steering Contractors Pumps
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Manager.....G.Abraham

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BRADEN MACHINERY CO. (Branch) WELLTON
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Manager.....M.E.Braden

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BRADEN MACHINERY CO. YUMA
900 4th Avenue PH: SU 3-7R66President.....F.C.Braden
Office Mgr.....L.M.FahringerVP & Sales Mgr. Lloyd V.Smith
Service Mgr.....Clark Arnold
Parts Mgr.....G.K.Hadley**BRANCH OFFICE**

Wellton E.Highway 80 M.E.Braden PH: ST 5-3391

LINES HANDLED

Athey Products Corp.
Balderson, Inc.
Be-Ge Manufacturing Co.
Butler Manufacturing Co.
Caterpillar Tractor Co.
Construction Machinery Co.
Fairbanks-Morse Co.

Fleco Products
Food Machinery Co.
Hyster Company
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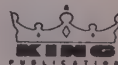
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Bay City Shovels, Inc.
Champ Corp.
Champion Mfg. Co.
Chicago Pneumatic Tool Co.
Clark Equipment Company
Construction Machinery Co.
Dreyer Vibrator Co.
Flaherty Equipment Co.
Good Roads Machinery Co.
Jackson Vibrator, Inc.
Lippmann Engineering Works
Littleford Bros., Inc.
Maginniss Power Tool Co.
Ottawa Steel Products Co.
Pak Mor Mfg. Co.
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1651 S.Placentia PH: KE 8-9828

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MOTY & VAN DYKE, INC. (Branch)..... ARCATA
PH: 1618

Manager.....G.Twyman

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BROWN-BEVIS-INDUSTRIAL EQPT. CO. (Branch)... BAKERSFIELD
1419 Union Avenue PH: FA 5-1239

Manager.....Noble Nelson

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CROOK COMPANY (Branch) BAKERSFIELD
2314 N.Chester PH: EX 9-1092

Manager.....H.J.Cady

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CUMMINS SERVICE & SALES (Branch) BAKERSFIELD
301 4th Street PH: FA 5-9404

Manager.....E.C.Swallow

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Highway 99 & Olive Drive PH: FA 3-3922

Partner.....L.V.Bechtel
Sales Manager...Lewis R.Smith

Partner.....Ralph R.Owen
Service Mgr..... James H.Hill

LINES HANDLED

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Duff-Norton Mfg. Co.
Edwards Wire Rope
Electric Steel Foundry Co.
Felker Manufacturing Co.
Grundler Crusher & Pulv. Co.
Earle M.Jorgensen Co.
M-P.McCaffrey Co., Inc.

Minneapolis-Moline Tractor Co.
Northfield Iron Co.
Pacific Coast Brush Co.
Raybestos-Manhattan, Inc.
Sanstorm Sandblasting Co.
Southwest Welding & Mfg. Co.
Toledo Pressed Steel Co.
Westrac Company
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California Ave. & 99 Highway PH: FA 4-4517

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Ind. Sales Mgr...David Case, Jr. Sales Manager... Robt.B.Tobias
Parts Manager...Donald A.Radon Service Mgr..... Frank Tuculet

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Floyd Bankson PH: 2-531
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LINES HANDLED

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Be-Ge Manufacturing Co.
The Elgin Corp.
Gar Wood Industries, Inc.

Joy Manufacturing Co.
Koehring Company
Kwik-Mix Company
Roebbing Wire Rope Co.
Tractomotive Corp.

CENTRAL EQUIPMENT CO., INC..... BERKELEY
1230 6th Street PH: LA 6-5061

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Manager.....Jay Ricks
Parts Manager...Erle Devlin

Vice President.. A.H.Miller
Sales Manager... S.H.Hewett
Service Mgr.....Jay Crownible

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Sacramento 2120 Blumenfeld

S.H.Hewett PH: LU 2-2344
A.H.Hewett PH: WA 2-1225

LINES HANDLED

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Barnes Manufacturing Co.
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Clementina Sandblast Equipment

Jay Manufacturing Co.
LeRoi Air Compressors
Onan Generators
Quincy Compressor Co.
Wright Power Saws

HAWKINS-HAWKINS CO., INC..... BERKELEY
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2nd & Gilman Streets PH: LA 5-2013

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Office Mgr.....W.A.Brodrick Service Mgr.....W.A.Brodrick

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Drake-Williams-Mount Co.

McCaffrey-Ruddock Tagline Co.
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F.W.Shrader Co.

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1077 Eastshore Highway PH: LA 5-2261

Pres. & Mgr.....M.C.Wright Vice President.. V.C.Genn
Sales Manager...Geo.McIntosh Parts Manager... V.C.Genn
Service Mgr.....Virgil Kling

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Fresno
Sacramento

Manager
Island Eqpt.Co.
Manager
Equipment Sales
Manager

Hank Hauert
6450 Freepoint Blvd.
Barney Zink PH: HI 5-2116
& Service PH: HO 6-8026
Bob Stevens

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Allison Division, GMC
American Tractor Corp.
Bucyrus-Erie Co.
Case Company
Chrysler Corp.
Detroit Diesel Eng.Div.,GMC
W.E.Grace Mfg. Co.
King Manufacturing Corp.

Kohler Company
Maginniss Power Tool Co.
Pettibone-Mulliken Corp.
Pettibone-New York Corp.
Pettibone-Wood Mfg. Co.
Transport Trailers, Inc.
Shovel Supply Co.
Universal Engineering Corp.
Worthington Corp.
Wylie Manufacturing Co.

HONNEN MACHINERY CO BLYTHE
W.Hobson Way PH: 3591 & 4451

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Sales Manager...Warren Buzzard Service Mgr.....Don Hodge
Parts Mgr..... John Pruitt

LINES HANDLED

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Athey Products Corp.
Balderson Manufacturing Co.
Be-Ge Manufacturing Co.
Caterpillar Tractor Co.
Construction Machinery Corp.
Essick Manufacturing Co.
Fleco Manufacturing Co.

Hensley Products
Hyster Company
John Deere Plow Co.
Leschen Wire Rope Co.
Martin Trailer Co.
P & H Loaders
Pacific Wire Rope Co.
Ulrich Products Co.

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PH: ME 4-3546

Manager.....Wm.Stanford

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President.....F.W.Tarr Sales Manager...Curtis W.Tarr
Service Mgr.....John W.Kurtz

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Gridley	Highway 99 E.	Dave Fawns	PH: 5655
Red Bluff	Hickory &	Frank Machado	PH: 40
	Madison		
Redding	Highway 99	Grant Thompson	PH: 920

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Fleco Corp.	Ulrich Products Corp.

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Manager.....L.S.Slack

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310 High Street PH: 9041

Manager.....Les King

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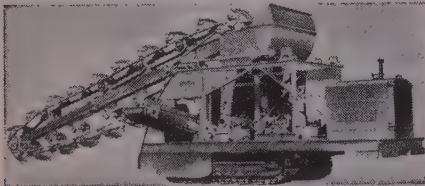
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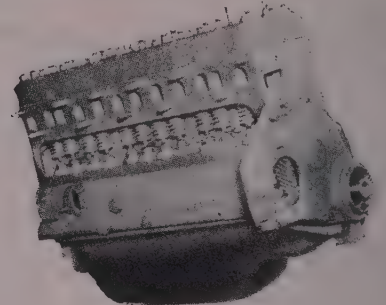
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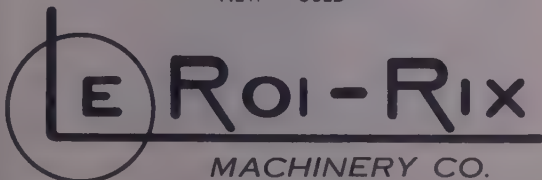
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King-Knight Auto.Starting Eqpt.	Ruston & Hornsby Ltd.,Diesels
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Kinney Manufacturing Div.	Skinner Engine Co.
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Clark Bros. Co., Div. of	A.B.Quackenbush Co.
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Pennsylvania Pump & Compr.Co.	Zephyr Mfg. Co., Inc.

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Oakland	2928 Poplar St.	G.Howerton	PH: GL 2-0458
Puente	125 N.Vineland	Ralph Range	PH: CU 3-3408
Sacramento	6260 Folsom Blvd.	Paul Denes	PH: GL 2-2641

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Atkins Saw Co.(Sacto.only)	The Gates Rubber Co.
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Auburn Ball Bearing Co.	Killian Manufacturing Co.
Automotive Thrust Bearing Corp.	Marlow Pumps-Div.Bell & Gossett
Bantam Brgs.,Div.Torrington Co.	Mayhew Supply Co.
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Bower Roller Bearing Co.	National Motor Bearing Co.
David Brown Co.(Oakland only)	New Departure-Div. GMC
Brunner & Lay, Inc.	Norman Hoffman Bearings Corp.
Champion Concrete Saw Co.	Orange Roller Bearing Co., Inc.
(Sacramento only)	Roller Bearing Co. of America
Chas.A.Colgate Co.	The Schatz Manufacturing Co.
Coolidge Manufacturing Co.	Simonds Abrasive Co.
Croft Brg.Service Eqpt. Co.	Smith Bearing Co.
Cullman Wheel Co.	Speed Selector, Inc.
Dart Manufacturing Co.	Split Ball Bearing Corp.
L.E.Dixon Co.	Timken Roller Bearing Co.
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 Koehring Company Viber Company
 Kwik-Mix Company Wright Engineering Co.
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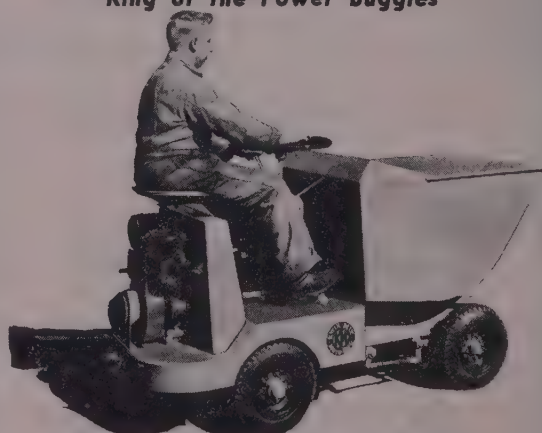
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 Champion Manufacturing Co.
 Childers Manufacturing Co.
 Creative Metals Corp.

 Dewey & Almy Chemical Co.
 Flaherty Mfg., Inc.
 W.E.Grace Mfg. Co.
 Heltzel Steel Form & Iron Co.
 Littleford Bros., Inc.
 Owen Bucket Co.
 Prime-Mover Co.
 Richmond Screw Anchor Co.
 Shunk Manufacturing Co.
 Viber Company
 Wayne Manufacturing Co.

There are eleven natural marketing areas in the West — Get good distributors in all eleven areas, work with them—then make the distributor's selling job easier, more productive, with advertising in WC!

FARIS-MORITZ EQUIPMENT CO.....DENVER
 5790 Colorado Blvd. PH: AT 8-2684

 President.....Lloyd Faris
 Sales Manager...Chas.N.Moritz

 Vice President..Chas.N.Moritz
 Service Mgr.....Jess Rucker
 Parts Manager...Kenneth Carver

LINES HANDLED

 Baldwin-Lima-Hamilton Corp.
 Electric Steel Foundry Co.
 Gardner-Denver Co.
 The B.F.Goodrich Co.
 Gorman-Rupp Co.
 Hendrix Manufacturing Co.
 Earle M.Jorgensen Co.
 Kensington Steel Co.

 Kolman Manufacturing Co.
 Leschen Wire Rope Division
 Little Giant Crane & Shovel Co.
 National Wire Cloth Co.
 Page Engineering Co.
 Simplicity Engineering Co.
 Standard Steel Corp.
 Tri-State Tractor Parts Co.

GUNDERSON-TAYLOR MACHINERY CO.....DENVER
 1237 Shoshone Street PH: TA 5-1327

 President.....Edw.F.Taylor
 Sales Manager...Edward D.Egan
 Parts Manager...Ben J.Becker

 Vice President..Edward D.Egan
 Manager.....Thor Groszold
 Service Mgr.....Bud Roark

LINES HANDLED

 Baker-Raulang Co.
 Baughman Company
 Brunner & Lay Steel
 Chicago Pneumatic Tool Co.
 Construction Machinery Co.
 Dixon Valve & Coupling Co.

 Durametallic Corp.
 Gates Rubber Co.
 Gunderson-Taylor Machinery Co.
 Kohler Company
 Quincy Compressor Co.
 Silent Glow Contractors' Heaters

HAWKINS-HAWKINS CO., INC. (Branch).....DENVER
 1018 Lawrence Street PH: TA 5-3218

Manager.....Lloyd S.Reed

SEE MAIN OFFICE LISTING UNDER BERKELEY

INTERSTATE TRACTOR SALES, INC.....DENVER
 1025 W.Third Avenue PH: AC 2-4734

 President.....R.L.Arnold
 Sales Manager...Henry Nelson
 Parts Manager...Glenn Jacobs

 Vice President..Henry Nelson
 Manager.....Henry Nelson
 Service Mgr.....L.C.Fetters

LINES HANDLED

 Earth Equipment Corp.
 Henry Manufacturing Co.
 Leland T.McGee Mfg. Co.
 Massey-Harris-Ferguson, Inc.

 Mid-Western Industries, Inc.
 Pippin Construction Eqt. Co.
 Universal Pulleys Co., Inc.
 Wood Bros. Mfg. Co.

KING & EAST MACHINERY CORP.....DENVER
 2390 S.Delaware Street PH: SH 4-1747

 Pres. & Mgr.....K.J.King
 Parts Manager...W.N.Gunderson

 VP & Sales Mgr. J.M.East
 Service Mgr.....Frank LeZotte

LINES HANDLED

 American Tractor Corp.
 Badger Machine Co.
 Beaver Art Metal Corp.
 Buck Equipment Corp.
 Diester Machine Co.
 Essick Manufacturing Co.
 Hyster Company
 Insley Manufacturing Co.

 International Mfg. Co.
 C.S.Johnson Co.
 Lessman Manufacturing Co.
 Light Products, Inc.
 Mail Tool Co.
 Rogers Iron Works
 Western Fence & Wire Works
 Wire Rope Corp. of America
 L.B.White Company

LIBERTY TRUCKS & PARTS CO.....DENVER
 690 Lincoln Street PH: MA 3-3241

 President.....R.F.Carlson
 Sales Manager...Walter W.Carlson

 Vice President..F.V.Altvater
 Parts Manager...Geo.Dassenko

LINES HANDLED

 J.I.Case Company
 Colorado Fuel & Iron Corp.
 Gradall Div., Warner & Swasey
 Harnischfeger Corp.
 Hetherington Berner, Inc.

 The Oliver Corp.
 Pettibone-Mulliken Corp.
 Meil-Blumberg Corp.
 Seaman-Andwall Co.
 Wausau Iron Works

McCARTY-SHERMAN DISTRIBUTING CORP.....DENVER
 275 Mariposa Street PH: TA 5-6358

 President.....A.M.McCarty
 Manager.....E.G.Stover
 Parts Manager...Harold Foster

 Vice President..E.G.Stover
 Sales Manager...Paul A.Johnson
 Service Mgr.....Carl Franklin

LINES HANDLED

 Blackhawk Trenchers
 Ford Industrial Equipment
 Ford Tractors

 Ford Implements
 Sherman Diggers
 Wagner Diggers

C. I. T. CORPORATION

120 Montgomery Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

WESTERN CONSTRUCTION EQUIPMENT DIRECTORY

DISTRIBUTORS' SECTION

COY COMPANY..... DENVER
5000 Colorado Blvd. PH: AT 8-2621

Pres. & Mgr.....E.H.Honnen
Sales Manager...John E.Woods

Vice President..Gavin Honnen
Service Mgr.....E.G.Watson
Parts Manager...D.L.Tressler

BRANCH OFFICES

Durango 260 E.4th St. R.E.Honnen PH: 1437
Grand Junction Orchard Mesa Fred Brothers PH: CH 2-2834
on U.S. 50
Pueblo 214 E.Ilex Dewey Mills PH: LI 4-4433
Sterling 518 N.3rd St. Dick Tremaine PH: LA 2-3047

LINES HANDLED

Amer. Tiger Brand Wire Rope
American Tractor Eqpt. Co.
Athey Products Corp.
Austin Overshot Loaders
Balderson, Inc.
Blaw-Knox Co.
Briscoe Ditchers
Wm.Bros Boiler & Mfg. Co.
Campbell Cabs
Caterpillar Tractor Co.
C & D Movall
Columbia Rippers
Crenlo Cabs
Electric Steel Foundry Co.
Fleco
Grade - More
Gurries Manufacturing Co.
Hendrix Manufacturing Co.
Hyster Company
Joy Manufacturing Co.
Madsen Iron Works
Martin Trailers
McCoy Company
Page Engineering Co.
Preco
Rivinius
Teale
Thew Shovel Co.
Ulrich Products (Domor)
Wellman Engineering Co.

McKELVY MACHINERY CO...... DENVER
2375 15th Street PH: GE 3-3338

Partner.....J.R.McKelvy
Sales Manager...J.E.Goggin

Partner.....Rex D.McKelvy
Service Mgr.....R.E.Smiley
Parts Mgr.....R.E.Smiley

LINES HANDLED

Federal Motor Truck
Hynes Electric Heating Div.
Koehring Company
Kwik Mix Company
Page Engineering Co.
Parsons Company
Standard Steel Works
Wisconsin Engines
Wooldridge Mfg. Co.

THE MINE & SMELTER SUPPLY CO...... DENVER
1422 17th Street PH: KE 4-3111

President.....Albert E.Seep
Vice President..Herman F.Seep
Sales Manager...Stacy C.Hinkle

BRANCH OFFICE

Salt Lake City 121 W.2nd So. W.J.Berryman PH: EM 3-2791

LINES HANDLED

Anaconda Wire & Cable Co.
Birdsboro Steel Fdry. & Mach. Co.
Broderick & Bascom Rope Co.
C H & E Manufacturing Co.
Clyde Iron Works, Inc.
Gardner-Denver Co.
Gilson Bros. Co.
Hubbard & Company
Johnston Pump Co.
McKiernan Terry Corp.
Manhattan Rubber Div.
Metal & Thermit, Inc.
Mine Safety Appliance Co.
Norton Company
Pacific Pumping Co.
Page Engineering Co.
Pennsylvania Crusher Co.
Pettibone-Mulliken Corp.
Plymouth Locomotive Works
Roots-Connersville Co.
Skill Corp.
Smith Welding Eqpt. Corp.
Timken Roller Bearing Co.
Universal Engineering Co.
Westinghouse Electric Corp.
Wood Shovel & Tool Co.

H.W.MOORE EQUIPMENT CO...... DENVER
5990 Colorado Blvd. PH: AT 8-0771

President.....John C.Moore
Sales Manager...Jack Moore
Parts Manager...Fred Minister
General Mgr.....J.T.Mains
Asst.Sales Mgr..Ralph Bickers
Service Mgr.....Keith Coates

BRANCH OFFICES

Durango Box 1505 Dave Cagle & Glenn Schroeder PH: 654-J
Grand Junction 2335 Grand Ave. Cecil Terrel PH: CH 2-1050

LINES HANDLED

Cleaver Brooks Co.
Cleveland Trencher Co.
Drott Manufacturing Co.
Eagle Iron Works
Gallon Iron Works & Mfg. Co.
Highway Equipment Co.
Frank G.Hough Co.
International Harvester Co.
Iowa Manufacturing Co.
Jones & Laughlin Wire Rope
Link Belt Speeder Corp.
Malsbary Manufacturing Co.
L.R.Murphy Co.
Pettibone-Wood Mfg. Co.
Quick-Way Truck Shovel Co.
Ram Equipment Co.
Rosco Manufacturing Co.
Schramm, Inc.
Sterling Machinery Corp.
Transport Trailer, Inc.
Wain Roy Mfg. Co.

POWER EQUIPMENT CO...... DENVER
3440 Brighton Blvd. PH: KE 4-4221

President.....Jack Munroe
Sales Manager...Frank T.Vernon
VP & Gen.Mgr...Wm.J.Faulkner
Secretary.....O.G.Sponsler
Parts Manager...Ronald Ball

BRANCH OFFICE

Grand Junction P.O.Box 1848 J.Wesley Land PH: CH 3-0722

LINES HANDLED

Allis-Chalmers Mfg. Co.
Colorado Fuel & Iron Corp.
Wickwire Spencer Steel Div.
Diamond Iron Works - Div.
Goodman Mfg. Co.
Erie Strayer Co.
Getman Bros. Mfg. Co.
Good Roads Mfg. Co.
Master Vibrator Co.
Northwest Engineering Co.
Pacific Car & Foundry Co.
Seaman-Gunnison Corp.
Schield-Bantam Co.
Tractomotive Corp.
Worthington Corp.

TRUCK EQUIPMENT CO......DENVER
3963 Walnut Street PH: AC 2-7905

President.....E.V.Garnett
Sales Manager...J.E.Ryan
Parts Manager...F.J.Plevniak

LINES HANDLED

Batavia Metal Products
Edbro (Tippers) Ltd.
Hercules Galion Body Co.
Highway Trailer Co.
Knapheide Mfg. Co.
Peterson Engineering Co.
Ranger Concrete Mixers
Ramsey Winch Co.
Stahl Metal Products
Truco Cable Reel Carriers
Dump Trailers (Truco)
Truco Self-Erecting Derrick
Truco Self-Powered Digger
Truco Trailers
Utility Body Co.

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of equipment for many Distributors**

WESTERN MACHINERY CO...... **DENVER**
 2400 W.7th Avenue PH: TA 5-7151
 Manager.....Leigh M.Jones Service Mgr.....F.Tom Hall
 Parts Manager... J.Grady Corbin

BRANCH OFFICE

Grand Junction Hwy 6 & 50 A.Geo.Setter PH: CH 2-1983

LINES HANDLED

Buckeye Ditchers	E.J.Longyear Co.
Clark Ept. Co. (Michigan)	Marion Power Shovel Co.
Continental Motors Corp.	Noble Company
DeWalt, Inc.	Sanstorm Manufacturing Co.
Dreyer Vibrator Co.	Sutorbilt Corporation
Eveready Briksaw Co.	Tampo Manufacturing Co.
Gar-Bro Manufacturing Co.	Thor Power Tool Co.
Jackson Vibrators, Inc.	Union Wire Rope Corp.
Jaeger Machine Co.	Walter Motor Truck Co.
Jos.F.Kiesler Co.	Whiteman Mfg. Co.
King Manufacturing Co.	Winslow Govt.Std.Scale Works

THE WHITE MOTOR CO. (Branch)..... **DENVER**
 1910 38th Street PH: AC 2-4661

Manager.....R.W.Cochran Service Mgr.....E.L.Teller
 Parts Mgr..... C.J.Murphy

LINES HANDLED

Autocar Trucks	Lipe-Rollway
A-C Spark Plug Co.	Long Manufacturing Co.
Air-O-Matic Power Steering Corp.	Luber-Finer, Inc.
Alemite Company	Perfect Circle Piston Ring Co.
American Chain & Cable Co.	Spicer Manufacturing Co.
Bendix-Westinghouse Brake Co.	Sterling Motor Truck Co.
Blackhawk Manufacturing Co.	Sun Electric Co.
Borg & Beck	Timken Detroit Axle Co.
Borg-Warner Co.	Timken Roller Bearing Co.
Braden Winch Co.	Wagner Brake Co.
Brown-Lipe Co.	Warner Transmissions Co.
Champion Spark Plug Co.	White Motor Co., Trucks &
Clark Transmission Co.	Buses, Gasoline & Diesel
DeLuxe Filter Co.	White Industrial Engines
Eaton Axle Co.	Wilkening Company
Fuller Transmission Co.	World-Bestos Brake Lining Co.
Highway Safety Appliances, Inc.	White-Freightliner Trucks

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Distributors For

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 CONTINENTAL MOTORS CORPORATION
 DREYER VIBRATOR COMPANY
 EVEREADY BRIKSAW COMPANY
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 JACKSON, INC.
 JAEGER MACHINE COMPANY
 E. J. LONGYEAR COMPANY
 MARION POWER SHOVELS
 MICHIGAN CRANES & SHOVELS
 MICHIGAN LOADERS
 SANSTORM MANUFACTURING CO.
 SUTORBILT CORPORATION
 TAMPO MANUFACTURING CO.
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SALES — SERVICE — RENTALS

WESTERN MACHINERY COMPANY

Denver — 2400 West 7 Avenue Phone TA 5-7151
 Grand Junction — Box 1498 Phone CH 2-1983

McCOY COMPANY (Branch)..... **DURANGO**
 260 E.4th Street PH: 1437

Manager.....R.E.Honnen

SEE MAIN OFFICE LISTING UNDER DENVER

H.W.MOORE EQUIPMENT CO. (Branch)..... **DURANGO**
 Box 1505 PH: 654-J

Managers.....Dave Cagle and Glenn Schroeder

SEE MAIN OFFICE LISTING UNDER DENVER

McCOY COMPANY (Branch)..... **GRAND JUNCTION**
 Orchard Mesa on U.S. 50 PH: CH 2-2834

Manager.....Fred Brothers

SEE MAIN OFFICE LISTING UNDER DENVER

H.W.MOORE EQUIPMENT CO. (Branch)..... **GRAND JUNCTION**
 2335 Grand Avenue PH: CH 2-1050

Manager.....Cecil Terrel

SEE MAIN OFFICE LISTING UNDER DENVER

POWER EQUIPMENT CO. (Branch)..... **GRAND JUNCTION**
 P.O.Box 1848 PH: CH 3-0722

Manager.....J.Wesley Land

SEE MAIN OFFICE LISTING UNDER DENVER

WESTERN MACHINERY CO. (Branch)..... **GRAND JUNCTION**
 Highway 6 & 50 PH: CH 2-1983

Manager.....A.George Setter

SEE MAIN OFFICE LISTING UNDER DENVER

McCOY COMPANY (Branch)..... **PUEBLO**
 214 E.Ilex PH: LI 4-4433

Manager.....Dewey Mills

SEE MAIN OFFICE LISTING UNDER DENVER

McCOY COMPANY (Branch)..... **STERLING**
 518 N.3rd Street PH: LA 2-3047

Manager.....Dick Tremaine

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WESTERN CONSTRUCTION EQUIPMENT DIRECTORY

DISTRIBUTORS' SECTION

ESTERN EQUIPMENT CO. (Branch)..... AMERICAN FALLS
 Fort Hall Avenue PH: 3600 - 3601

Manager.....E.E.Cornelison

SEE MAIN OFFICE LISTING UNDER BOISE

RNOLD MACHINERY CO., INC. (Branch) BOISE
 5024 Gage Street PH: 2-1174

Manager.....R.E.Nichols

SEE MAIN OFFICE LISTING UNDER SALT LAKE CITY

NGINEERING SALES SERVICE, INC..... BOISE
 410 Capitol Blvd. PH: 3-2535

Pres. & Mgr.....H.W.Hurd
 Sales Manager...H.W.Hurd

Vice President...E.W.Shellworth
 Service Mgr.....J.L.Maher
 Parts Mgr.....H.J.McLean

LINES HANDLED

Allis-Chalmers (Transformers)	C.S.Johnson Co.
Alloy Steel & Metals Co.	Koehring Company
American Pulley Co.	Kwik-Mix Company
Arrow Manufacturing Co.	R.G.LeTourneau Co.
Austin-Western Co.	Malsbary Manufacturing Co.
Baldwin-Lima-Hamilton Corp.	Marlow Pumps
Barber-Greene Co.	Murphy Diesel Co.
Be-Ge Manufacturing Co.	The Oliver Corp.
Boston Woven Hose & Rubber Co.	Oshkosh Motor Truck Co., Inc.
Clayton Manufacturing Co.	The Parsons Co.
Colorado Fuel & Iron Corp.	Pitman Manufacturing Co.
Cook Bros. Equipment Co.	Sanstorm Manufacturing Co.
Dreyer Vibrator Co.	Schild Bantam Co.
Excavator Point & Mfg. Co.	Schramm, Inc.
W.E.Grace Mfg. Co.	Screen Equipment Co.
Heil Company	Standard Steel Works
Hensley Equipment Co.	Tarrant Manufacturing Co.
	Thor Power Tools

EENAUGHTY MACHINERY CO..... BOISE
 600 Front Street PH: 2-4579

Manager.....Frank D.Masner
 Office Mgr.....Edw.Villeneuve

Sales Manager... Frank D.Masner
 Parts Manager... Edw.Villeneuve

LINES HANDLED

American Sawmills	Maxi Corporation
Baldwin-Lima-Hamilton Corp.	L.R.Murphy Scale Co.
Bay City Shovels, Inc.	N.P.Nelson Iron Works, Inc.
Construction Machinery Co.	Page Engineering Works, Inc.
Davey Compressor Co.	Pak-Mor Manufacturing Co.
Dempster Bros., Inc.	Pioneer Engineering Works, Inc.
Engineered Equipment Co.	Sargent Engineering, Inc.
Four Wheel Drive Auto Co.	Transport Trailers, Inc.
Hendrix Manufacturing Co.	Wayne Manufacturing Co.
Highway Equipment Co.	Willet Manufacturing Co.
Jos.F.Kiesler & Co.	Winslow Govt.Std.Scale Works
Littleford Bros., Inc.	Wylie Manufacturing Co.

INTERMOUNTAIN EQUIPMENT CO..... BOISE
 415 Broadway PH: 3-6441

President.....W.G.Swendsen
 Branch Mgr.....A.Aldecoa
 Parts Manager...Jess Right

VP & Gen.Mgr... P.A.Dufford
 Idaho Sales Mgr. J.E.Nordyke
 Service Mgr.....H.C.Steinman

BRANCH OFFICES

Pocatello	210 N.4th Ave.	E.A.Collins	PH: 3663
Spokane	E.611 Sprague	R.W.Stevens	PH: TE 8-2521

LINES HANDLED

Air Placement Equipment Co.	Kohler Company
Bucyrus-Erie Co.	Lamson Mobilift Corp.
Bucyrus-Erie (Monaghan Div.)	Manning, Maxwell & Moore Co.
Buffalo-Springfield Roller Co.	McKiernan Terry Co.
Chain Belt Co.	L.R.Murphy Co.
Cleaver-Brooks Co.	Nordberg Manufacturing Co.
Cleveland Trencher Co.	Owen Bucket Co.
Clyde Iron Works	Pacific Car & Foundry Co.
Drott Manufacturing Co.	Palmer Electric Mfg. Co.
Eagle Iron Works	Ready Power Co.
Electric Steel Foundry	Robinson Air Activated
Elgin Corporation	Conveyor System
E.D.Etnyre & Co.	Rodgers Hydraulic, Inc.
Euclid Division - GMC	Salem Tool Co.
Gar-Bro Mfg. Co., Div. of	Sauerman Brothers, Inc.
Garlinghouse Bros.	Smith Welding Equipment Co.
Good Roads Machinery Co.	Superior Equipment Co.
Hendrix Manufacturing Co.	Symons Brothers Co.
Hobart Brothers	Synton Company
Frank G.Hough Co.	Tampo Manufacturing Co.
Hughes-Keenan Co.	Topeka Highway Mower Co.
Ingersoll-Rand Co.	Viber Company
International Harvester Co.	Vulcan Iron Works, Inc.
Iowa Manufacturing Co.	White Manufacturing Co.
Johnston Pump Co.	Winslow Govt.Std.Scale Works
Klauer Manufacturing Co.	Wright Power Saw Co.

SUPPLY LINES

Allen-Bradley Co.	Municipal Street Sign Co.
American Brush Co.	National Twist Drill & Tool Co.
Behr-Manning, Inc.	P.S.Pell Co.
E.D.Bullard Co.	Pyrene-C-O-Two Div., The
Cataphote Co.	FyrFyter Co.
Coffing Hoist Co.	Quaker Pioneer Rubber Mills
Crucible Steel Co.	Raybestos-Manhattan Co.
Dixon Valve & Coupling Co.	(Grey-Rock Div.)
Electric Steel Foundry Co.	John A.Roebbling's Sons Co.
Engine Life Products Corp.	Round Seattle Chain Div.
Flexco Belt Lacing	Simonds Saw & Steel Co.
Garlock Packing Co.	Skil Corp.
B.F.Goodrich Co.	Skookum Co., Inc.
Gripshott, Inc.	Stayput Clamp & Coupling Co.
Hein-Werner Motor Parts Corp.	Stoody Company
Hobart Bros. Co.	Kenneth L.Tamasie Co.
Imperial Brass Mfg. Co.	Taylor Chain Co.
Interstate Drop Forge Co.	Templeton-Kenly Co.
Lincoln Engineering Co.	Toledo Pressed Steel Co.
Morse-Starrett Products Co.	Universal Form Clamp Co.
	Western Fence & Wire Works

D.N.NORDLING PARTS CO..... BOISE
 Main at 14th PH: 2-6557

Pres. & Owner.. D.N.Nordling
 Manager..... L.P.Campbell

BRANCH OFFICES

Burley	141 E.Main	A.J.Anderson	PH: OR 8-2432
Gooding	233 Main	Don Hawkes	PH: 63
Nampa	811 2nd St.So.	Glenn Christie	PH: 6-3501
Twin Falls	333 Main Ave.E.	Loyd James	PH: 178
Ontario (Ore.)	401 S.Oregon	Merlin Ditty	PH: 510

LINES HANDLED

Alemite Company	Kerrick Cleaners
Allen Electric Mfg. Co.	Lincoln Electric Co.
Blackhawk Manufacturing Co.	Linde Air Products
Black & Decker Mfg. Co.	Owatonna Tool Co.
John Bean Mfg. Co.	Piomb Tool Co.
Champion Spark Plug Co.	Raybestos Mfg. Co.
Clinton Engine & Chain Saws	Sealed Power
DeVilbiss Company	South Bend Lathe Works
Doyle Vacuum Cleaner Co.	S.K.F. Industries
Federal Mogul Corp.	L.S.Starrett Co.
Fram Corporation	Thompson Products, Inc.
Gates Rubber Co.	Waukesha Motor Co.
Ingersoll-Rand Co.	S.K.Weilman Co.

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 President.....A.Burroughs, Jr. Vice President..B.K.Burroughs
 Manager.....Wm.B.Knipe, Jr. Sales Manager...Wm.B.Knipe, Jr.
 Parts Manager...L.B.Scribner Service Mgr.....Arthur J.Lee

BRANCH OFFICES

Idaho Falls 675 Wabash Ave. F.C.Knipe PH: 2382
 Twin Falls 201 3rd Ave.W. S.J.Rowbury PH: 4791

LINES HANDLED

Albin Manufacturing Co. Huber-Warco Co.
 American Hoist & Derrick Co. Irvington Machine Works
 Arrow Manufacturing Co. Jaeger Machine Co.
 Asplundh Chipper Co. Jay Corporation
 Bethlehem Steel Co. LaCrosse Trailer Corp.
 Boomsnub Company Lillengreen & Co.
 Clark Equipment Co. Little Giant Products Co.
 Construction Industrial Mfg. Madsen Iron Works
 Co. (CIMCO) Master Vibrator Co.
 Coppus Engineering M-B Corporation
 Corinth Machinery Co. Michigan Construction Eqpt.
 DeWalt, Inc. Minneapolis-Moline Co.
 Diamond Iron Works Municipal Supply Co.
 Fyr-Fyter Company Northwest Marine Iron Works
 Gar Wood - St. Paul Ottawa Steel Division
 Hale Fire Pump Co. Peter Pisch Co.
 Hardie Manufacturing Co. The Prime-Mover Co.
 Hercules Motors Corp. Shovel Supply Co.
 Homelite Corp. Thor Power Tool Co.
 Howe Fire Apparatus Co. United States Motors Corp.

SUPPLY LINES

Adams Company Federal Sign & Signal Corp.
 Air Reduction Pacific Co. Fiske Bros. Refining Co.
 American Logging Tool Co. Goodyear Tire & Rubber Co.
 Atlas Powder Co. Paul E.Keeney Co.
 Black & Decker Mfg. Co. Milwaukee Reliance Boiler Wks.
 Blackhawk Manufacturing Montague Pipe & Steel Co.
 Champion Blower Oregon Saw Chain Co.
 Collins Company Shober Sales, Inc.
 DeVilbiss Company Simonds Saw & Steel Co.
 Dixon Valve & Coupling Syntro Company
 Electric Steel Foundry Templeton, Kenly & Co.
 Victor Equipment Co.

MICHIGAN

CONSTRUCTION EQUIPMENT

Sales — Service — Rentals

See Listing on This Page
 for Other Lines Handled

The Sawtooth Company

1115 GROVE STREET
 BOISE, IDAHO
 DIAL 3-3603

Long Distance LD-39
 Answered only by Bill Knipe, Gen. Mgr.

SOUTHERN IDAHO EQUIPMENT CO. (Branch)..... **BOISE**
 1301 Capitol Blvd. PH: 3-6409
 Manager.....S.T.Collins, Jr.

SEE MAIN OFFICE LISTING UNDER IDAHO FALLS

STARLINE EQUIPMENT CO...... **BOISE**
 503 S.16th Street PH: 4-3321 & 4-3331

President.....Peter H.Cohn Vice President.. James Dunn
 Secy-Treas.....R.L.Beglan Service Mgr.....Fred Murdock
 Parts Manager... Lee Denton

LINES HANDLED

American LaFrance Marmon Harrington Co.
 Baughman Manufacturing Co. Ottawa Steel Co.
 Broderick & Bascom Rope Co. Pettibone-Mulliken Corp.
 Eagle Traffic Signal Co. Republic Rubber Div.
 Essick Manufacturing Co. Rheem Guard Rail
 Gorman-Rupp Co. Rosco Manufacturing Co.
 H & L Tooth Company Smith Engineering Works
 Harnischfeger Corp. Utility Body Co.
 Hendrix Manufacturing Co. Whiteman Mfg. Co.

WESTERN EQUIPMENT CO...... **BOISE**
 4009 Fairview Avenue PH: 3-5401

VP & Gen.Mgr...G.M.Gehrke Sales Manager... J.C.Jensen
 Asst. Mgr.....B.B.Chisholm Service Mgr.....R.S.Tremewan
 Parts Mgr..... G.C.Highley

BRANCH OFFICES

American Falls Fort Hall Ave. E.E.Cornelison PH: 3600-3601
 Idaho Falls 1333 N.Yellowstone Mel Empey PH: 890
 Twin Falls 1300 Kimberly Harold Jagers PH: 2849
 Ontario (Ore.) 29 SE 1st St. Jay Stevens PH: 652

LINES HANDLED

American Rubber Mfg. Co. LeTourneau-Westinghouse Corp.
 American Tractor Eqpt. Corp. Link-Belt Speeder Corp.
 Athey Products Corp. McCaffrey-Ruddock Tagline Corp.
 Atlas Scraper & Engrg. Co. Mack Trucks, Inc.
 Austin Div., Central Ohio Madsen Iron Works, Inc.
 Steel Products Co. Martin Machine Co.
 Autolene Lubricants Co. Marvin Landplane Co.
 Baer Steel Products Master Vibrator Co.
 Balderson, Inc. Metal Forms Corp.
 Barnes Manufacturing Co. Minnesota Mining Corp.
 Beebe Bros. Co. Mixermobile Distributors, Inc.
 Braden Winch Co. L.R.Murphy Co.
 Broderick & Bascom Rope Co. Omaha Steel Works
 Wm.Bros Boiler & Mfg. Co. Ottawa Steel Division
 C & D Manufacturing Co. Perfection Steel Body Co.
 Caterpillar Tractor Co. Precor, Inc.
 Coffing Hoist Mfg. Co. Rome Plow Co.
 Colorado Fuel & Iron Corp. Rustoleum Corp.
 Davenport-Bresler Corp. Schramm, Inc.
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Balderson Mfg. Co.
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Fleco Corp.
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Hyster Company
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The WC Equipment Directory tells who manufactures equipment you might know only by its trade mark name. Trade names are listed in blue section.

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 Buffalo Springfield Roller Co.
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 Cleaver Brooks Co.
 Consolidated Mch. & Supply
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 Eagle Iron Works
 Euclid Div. of GMC
 Gar Wood Industries
 Gledhill Machinery Co.
 Highway Equipment Co., Inc.
 Homelite Corp.
 Ingersoll-Rand Co.

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 Marlow Pump Co.
 Master Vibrator Co.
 Michigan Power Shovel Co.
 L.R.Murphy Co. Scales
 Nordberg Manufacturing Co.
 Northwest Engineering Co.
 Rosco Manufacturing Co.
 Silent Glow Burner Co.
 Skagit Steel & Iron Works
 Thor Power Tool Co.
 Wisconsin Motors Corp.
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 Alemite Company
 Allen Hollow Screws
 American Hoist & Derrick Co.
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 Bemis Bros. Bag Co.
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 Campbell Chain Co.
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 Fiske Bros.-Lubriplate Div.
 Flexco Belt Fasteners
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 E.F.McDonald Co.
 Owatonna Tool Co.
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 Union Twist Drill Co.
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 Wood Shovel & Tool Co.
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 Manager.....R.J.Knutson Sales Manager... J.H.Galbraith
 Parts Manager...Joe Anxo Service Mgr.....Frank Fergoda

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 Drott Loaders
 Fairbanks-Morse Co.
 MacWhyte Wire Ropes

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 Hough Payloaders
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Sales Manager... R.R. Larson Parts Manager... Sam Jones

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Treasurer.....G.R.Moty

Vice President...N.W.Moty
Sales Manager...A.W.Brink
Office Mgr.....K.G.Klahn

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Arcata "	G.Twyman	"	PH: 1618
Bend	G.Bjvorick	"	PH: 881
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Service Mgr.....Orval Trump
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Fleco	Skagit Steel & Iron Works
Hyster Company	Ulrich Products Corp.
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Harnischfeger Corp.	Westinghouse Compressors
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Dixon Valve & Coupling Co.	Page Engineering Co.
Duff-Norton Mfg. Co.	J.D.Polis Mfg. Co.
Electric Steel Foundry Co.	Quick Steam Cleaners
Gates Rubber Co.	Thor Tool Co.
Gladen Manufacturing Co.	Timken Roller Bearing Co.
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Lacar Enterprises	Wincharger Corp.
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Service Mgr.....Frank L.Kline
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Concrete Surfacing Mch. Co.
Duff-Norton Mfg. Co.
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Klauer Manufacturing Co.
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Manitowoc Engineering Works
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American Tractor Co.
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Bethlehem Pacific Coast Steel
Brunner & Lay
Canton Cast Products Co.
Chausse Manufacturing Co.
Cleco Division
Cleveland Vibrator Co.
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Merrill Bros.
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Flexible Road Joint Mach. Co.
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MacWhyte Company
Pacific Car & Foundry Co.
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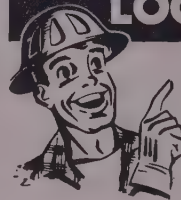
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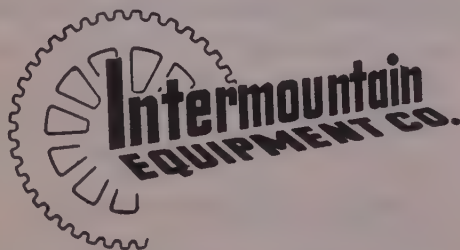
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Construction Machinery Co.
DeWalt, Inc.
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AERATORS

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Dorr-Oliver, Inc.
Towner Manufacturing Co.
Worthington Corp.

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John A. Roebling Sons Corp.
Sauerman Bros.
Skagit Steel & Iron Works

AGITATORS

Blaw Knox Co.
Bodinson Manufacturing Co.
Construction Machinery Co.
Dorr-Oliver, Inc.
Jaeger Machine Co.
Morse Bros. Machinery Co.
Straub Manufacturing Co.
T.L. Smith Co.
Worthington Corp.

ANGLE DOZERS

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American Tractor Eqpt. Corp.
Arps Corp.
Austin-Western Works
Wm. Bros. Boiler & Mfg. Co.
Eimco Corp.
Hydraulic Tool & Eqpt. Co.
LeTourneau-Westinghouse Co.
Oliver Corp.
Ottawa Steel Div.
Shawnee Manufacturing Co.
The Superior Equipment Co.
Wagner Iron Works
West Coast Machinery Co.
Wooldridge Manufacturing Co.

ASPHALT CUTTERS

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Barco Manufacturing Co.
Brunner & Lay, Inc.
Clipper Manufacturing Co.
Ottawa Steel Div.
R.P.B. Corp.
Thor Power Tool Co.

ASPHALT KETTLES

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Clipper Manufacturing Co.
Hauck Manufacturing Co.
Littleford Bros., Inc.
Rosco Manufacturing Co.
Spears-Wellis Machinery Co.
Standard Steel Works
White Manufacturing Co.

ASPHALT PAVING EQUIPMENT

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Barber-Greene Co.
Blaw Knox Co.
Burch Corp.
Gray Co., Inc.
Harnischfeger Corp.
Hauck Manufacturing Co.

Hetherington & Berner, Inc.
Highway Equipment Co.
Littleford Bros., Inc.
Iowa Manufacturing Co.
Kwik-Mix Co.
Jay Company
Madsen Iron Works
Pioneer Engineering Works
Spears-Wellis Machinery Co.
Ulrich Products Corp.
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ASPHALT PLANTS

Barber-Greene Co.
Childers Mfg. Co.
F.D. Cummer & Son Co.
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Iowa Manufacturing Co.
Kwik-Mix Co.
Madsen Iron Works, Inc.
Pioneer Engineering Works
Standard Steel Corp.
Standard Steel Works
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Madsen Works Division
Petibone Wood Mfg. Co.
Seaman-Gunnison Corp.
Standard Steel Works

B

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Ottawa Steel Div.
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Shawnee Manufacturing Co.
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Wagner Iron Works

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Cook Bros. Equipment Co.
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Mid-Western Industries, Inc.
Oliver Corp.
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Schield Bantam Co.
Schramm, Inc.
Shawnee Mfg. Co.
Sherman Products, Inc.
Thew Shovel Co.
Wagner Iron Works
Wayne Shovel & Crane Div.

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C.H. & E. Manufacturing Co.

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Conveyor Co.
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Koehring Co.
Kwik-Mix Co.
Littleford Bros., Inc.
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Pettibone-Mulliken Corp.
Schield Bantam Co.
Wellman Engineering Co.
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Koehring Co.
Martin Iron Works
Miller & Smith Mfg. Co., Inc.
Noble Company
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Quick-Way Truck Shovel Co.
Sauerman Bros.
Schield Bantam Co.
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Superior-Lidgerwood-Mundy Corp.

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LeRoi Division
Schramm, Inc.
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Joy Manufacturing Co.
LeRoi Division
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Stanco Manufacturing Co.
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Prime Mover Co.
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Richmond Screw Anchor Co.
Superior Concrete Accessories
Symons Clamp Mfg. Co.
Universal Form Clamp Co.

CONCRETE HAULERS

Koehring Co.
Maxon Construction Co.
Pettibone Wood Mfg. Co.
Wagner Iron Works

CONCRETE HEATERS

Aeroli Products, Inc.
Littleford Bros., Inc.

CONCRETE PAVING SPREADERS

Blaw Knox Co.
Flexible Road Joint Mch. Co.
Jaeger Machine Co.
Koehring Co.
Stow Manufacturing Co.
Whiteman Manufacturing Co.

CONCRETE PLACING EQUIPMENT

Air Placement Eqpt. Co.
Chain Belt Co.
Chicago Pneumatic Tool Co.
Construction Machinery Co.
Engineered Equipment, Inc.
Howry-Berg Steel & Iron Works
Insley Manufacturing Co.
Jaeger Machine Co.
Koehring Co.
Kwik-Mix Co.
Mixermobile Distributors, Inc.
Pettibone Wood Mfg. Co.
Schield Bantam Co.
Stow Manufacturing Co.
Thew Shovel Co.
Universal Form Clamp Co.
Whiteman Manufacturing Co.

**CONCRETE PRODUCTS—
PRECAST & PRESTRESSED**

Basalt Rock Co.
Ben C. Gerwick, Inc.

CONCRETE SAWS

Clipper Manufacturing Co.
Concrete Sawing Eqpt. Co.
Construction Machinery Co.
Diamond Tool Associates
Engineered Equipment, Inc.
Eveready Brikshaw Co.
Felker Manufacturing Co.
Skill Corp.
Thor Power Tool Co.

CONCRETE SURFACERS

Air Placement Eqpt. Co.
Concrete Surfacing Mch. Co.
Flexible Road Joint Mch. Co.
Koehring Co.
Mall Tool Co.
Stow Manufacturing Co.
Thor Power Tool Co.
White Manufacturing Co.
Whiteman Manufacturing Co.

CONVEYORS

Atlas Conveyor Co.
Baldwin-Lima-Hamilton Corp.
Barber-Greene Co.
Baughman Mfg. Co.
Bodinson Mfg. Co.
L. Burmeister Co.
Chain Belt Co.
Construction Machinery Co.
Conveyor Co.
Diamond Iron Works
Fairfield Engineering Co.
Hercules Steel Products Co.
Hewitt-Robins, Inc.
Howry-Berg Steel & Iron Works
Idaho Sprocket & Mach. Wks., Inc.
Iowa Manufacturing Co.
C.S. Johnson Co.

Joy Manufacturing Co.
Kolman Manufacturing Co.
Lippman Engineering Works
Martin Machine Works
Materials Handling, Inc.
Miller & Smith Mfg. Co., Inc.
Noble Company
Oliver Corp.
Pettibone Wood Mfg. Co.
Pioneer Engineering Works
Simplicity Engineering Wks.
Stephens-Adamson Mfg. Co.
Straub Manufacturing Co.
Tampo Manufacturing Co.
Universal Engineering Corp.
Willard Concrete Mch. Sales Co.
Yuba Manufacturing Co.

CRANES

American Hoist & Derrick Co.
Austin-Western Works
Badger Machine Co.
Baldwin-Lima-Hamilton Corp.
Browning Crane & Shovel Co.
Bucyrus-Erie Co.
Byers Manufacturing Co.
Clark Equipment Co.
Clyde Iron Works
Colby Steel & Mfg. Co.
Cook Bros. Equipment Co.
Hanson Clutch & Machinery Co.
Harnischfeger Corp.
Hughes-Keenan Co.
Hyster Company
Insley Manufacturing Co.
Koehring Co.
LeTourneau-Westinghouse Co.
Link Belt Speeder Corp.
Little Giant Crane & Shovel Co.
Manitowoc Engineering Works
Michigan (Clark Eqpt. Co.)
Miss. Valley Eqpt. Co.
Northwest Engineering Co.
Pacific Car & Foundry Co.
Pettibone-Mulliken Corp.
Pitman Manufacturing Co.
Quick-Way Truck Shovel Co.
Schield Bantam Co.
The Superior Equipment Co.
Thew Shovel Co.
Unit Crane & Shovel Corp.
Wayne Shovel & Crane Div.

CRANES, TRUCK

American Hoist & Derrick Co.
Austin-Western Works
Badger Machine Co.
Baldwin-Lima-Hamilton Corp.
Bay City Shovels, Inc.
Browning Crane & Shovel Co.
Bucyrus-Erie Co.
Byers Manufacturing Co.
Clark Equipment Co.
Cook Bros. Equipment Co.
Gar Wood Industries, Inc.
Hanson Clutch & Machinery Co.
Harnischfeger Corp.
Hughes-Keenan Co.
Hyster Company
Insley Manufacturing Co.
Kenworth Motor Truck Co.
Koehring Co.
Little Giant Crane & Shovel Co.
Link Belt Speeder Corp.
Miss. Valley Eqpt. Co.
Pettibone-Mulliken Corp.
Quick-Way Truck Shovel Co.
Skagit Steel & Iron Works
Schield Bantam Co.
Stanco Manufacturing Co.
Thew Shovel Co.
Unit Crane & Shovel Co.
H.S. Watson Co.
Wayne Shovel & Crane Div.

CRANES, WAGON

American Hoist & Derrick Co.
Baldwin-Lima-Hamilton Corp.
Bay City Shovels, Inc.
Browning Crane & Shovel Co.
Byers Manufacturing Co.
Clark Equipment Co.
Cook Bros. Equipment Co.
Hanson Clutch & Mch. Co.
Insley Manufacturing Co.
Link Belt Speeder Corp.
Northwest Engineering Co.
Thew Shovel Co.
Wayne Shovel & Crane Div.

CRAWLERS

Allis-Chalmers Mfg. Co.
American Hoist & Derrick Co.
American Tractor Corp.
Austin-Western Works
Baldwin-Lima-Hamilton Corp.
Badger Machine Co.
Browning Crane & Shovel Co.
Byers Manufacturing Co.
Elmco Corp.
Euclid Div., General Motors

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RAWLERS (CONTINUED)

Hanson Clutch & Machinery Co.
Harnischfeger Corp.
Frank G. Hough Co.
International Harvester Co.
Koehring Co.
Link Belt Speeder Corp.
Little Giant Crane & Shovel Co.
Oliver Corp.
Schield Bantam Co.
Thew Shovel Co.
Unit Crane & Shovel Corp.

RUSHERS

Baldwin-Lima-Hamilton Corp.
Browning Manufacturing Co.
Diamond Iron Works
Conveyor Co.
Eagle Crusher Co.
Flaherty Manufacturing, Inc.
Hewitt-Robins, Inc.
Idaho Sprocket & Mach. Wks., Inc.
Iowa Manufacturing Co.
Lippman Engineering Works
Lull Engineering Co.
Morse Bros. Machinery Co.
Nordberg Manufacturing Co.
Pioneer Engineering Works
Smith Engineering Works
Stephens-Adamson Mfg. Co.
Straub Manufacturing Co.
Traylor Engrg. & Mfg. Co.
Universal Engineering Corp.

RUSHING PLANTS

Athey Products Corp.
Baldwin-Lima-Hamilton Corp.
Bodinson Manufacturing Co.
Conveyor Co.
Diamond Iron Works
Howry-Berg Steel & Iron Works
Iowa Manufacturing Co.
Lippman Engineering Works
Nordberg Manufacturing Co.
Pioneer Engineering Works
Smith Engineering Co.
Straub Manufacturing Co.
Universal Engineering Corp.

CRUSHING ROLLS

Baldwin-Lima-Hamilton Corp.
Conveyor Co.
Diamond Iron Works
Electric Steel Foundry
Iowa Manufacturing Co.
Lippman Engineering Works
Pioneer Engineering Works
Smith Engineering Works
Stephens-Adamson Mfg. Co.
Traylor Engrg. & Mfg. Co.
Universal Engineering Corp.

CULVERTS

Armco Drainage & Metal Products

CURB & GUTTER FORMS

Blaw Knox Co.
Heltzel Steel Form & Iron Corp.

CUTTERS, WIRE ROPE

Morse-Starratt Products Co.

D**DANGER BEACONS**

Cataphote Corp.

DEMOLITION TOOLS

Barnard Manufacturing Co.
Brunner & Lay, Inc.
Chicago Pneumatic Tool Co.
K.O. Duncan Co.
Ingersoll-Rand Co.
M.P. McCaffrey, Inc.
Ottawa Steel Div.
Schramm, Inc.
Thor Power Tool Co.

DERRICKS

American Hoist & Derrick Co.
Clude Iron Works
Four Wheel Drive Auto Co.
Highway Trailer Co.
Miss. Valley Ept. Co.
Sasgen Derrick Co.
Skagit Steel & Iron Works
Superior-Lidgerwood-Mundy Corp.

DIGESTERS, PULP

Chicago Bridge & Iron Corp.
Electric Steel Foundry Co.

DIPPERS

Electric Steel Foundry Co.
Pettibone-Mulliken Corp.
Schield Bantam Co.

DITCHERS

Badger Machine Co.
Barber-Greene Co.

Be-Ge Manufacturing Co.
Briscoe Manufacturers of Calif.
Cleveland Trencher Co.
Gar Wood Industries, Inc.
Gradall Div., Warner Swasey Co.
Hydraulic Tool & Ept. Co.
Jetco, Inc.
Koehring Co.
Northwest Engineering Co.
Ottawa Steel Div.
Parsons Company
Shawnee Manufacturing Co.

DRAGLINES

American Hoist & Derrick Co.
Baldwin-Lima-Hamilton Corp.
Bay City Shovels, Inc.
Bethlehem Pacific Corp.
Browning Crane & Shovel Co.
Bucyrus-Erie Co.
Eyers Manufacturing Co.
Clark Equipment Co.
Colorado Fuel & Iron Corp.
Cook Bros. Equipment Co.
Electric Steel Foundry Co.
Hanson Clutch & Machinery Co.
Harnischfeger Corp.
Hyster Company
Insley Manufacturing Co.
Koehring Co.
Link Belt Speeder Corp.
Little Giant Crane & Shovel Co.
Manitowoc Engineering Works
Miss. Valley Ept. Co.
Northwest Engineering Co.
Page Engineering Co.
Quick-Way Truck Shovel Co.
Schield Bantam Co.
Skagit Steel & Iron Works
Thew Shovel Co.
Unit Crane & Shovel Corp.
Wayne Shovel & Crane Div.
Yuba Manufacturing Co.

DREDGING EQUIPMENT

Eagle Iron Works
Essick Manufacturing Co.
Harnischfeger Corp.
Hetherington & Berner, Inc.
Little Giant Crane & Shovel Co.
Rockland Allied Ept. Co.
Superior-Lidgerwood-Mundy Corp.
Unit Crane & Shovel Corp.
Wayne Shovel & Crane Div.
Yuba Manufacturing Co.

DRILLS

Barco Manufacturing Co.
Black & Decker Mfg. Co.
Brunner & Lay, Inc.
Bucyrus-Erie Co.
Buda Company
Chicago Pneumatic Tool Co.
Davey Compressor Co.
Diamond Tool Associates
Falkner Manufacturing Co.
Gardner-Denver Co.
Ingersoll-Rand Co.
Joy Manufacturing Co.
LeROI Division
Mall Tool Co.
McCulloch Motors Corp.
Omark Industries
Pippin Construction Ept., Inc.
Salem Tool Co.
Skill Corp.
Stanco Mfg. Co.
Thor Power Tool Co.
Timken Roller Bearing Co.
Warsop Power Tools, Inc.
Winter-Weiss Co.
Worthington Corp.

DRYERS

Madsen Works Division

DUMMY JOINTS

Flexible Road Joint Mch. Co.

DUMP BODIES

Anthony Company
Cook Bros. Equipment Co.
Euclid Div., General Motors
Gallon Allsteel Body Co.
Gar Wood Industries, Inc.
Hercules Steel Products Co.
Heil Company
Marion Metal Products Co.
LeTourneau-Westinghouse Co.
Perfection Steel Body Co.
St. Paul Hydraulic Hoist Div.

DUMP TRAILERS

Anthony Company
Athey Products Corp.
Baughman Mfg. Co.
Cook Bros. Ept. Co.
Euclid Div., General Motors
Gallon Allsteel Body Co.
Gar Wood Industries, Inc.
Heil Company
Hercules Steel Products Co.
Hobbs Manufacturing Co.
LeTourneau-Westinghouse Co.

Marion Metal Products Co.
M-R-S Manufacturing Co.
Utility Trailer Mfg. Co.

DUST COLLECTORS

American Air Filter Co.
Clipper Mfg. Co.
F.D. Cummer & Sons Co.
Iowa Manufacturing Co.
Madsen Iron Works

E**EARTH DRILLS**

Buda Company
Chicago Pneumatic Tool Co.
Four Wheel Drive Auto Co.
Highway Trailer Co.
Mall Tool Co.
McCulloch Motors Corp.
Salem Tool Co.
Schramm, Inc.
Thor Power Tool Co.

ELECTRIC SETS, DIESEL

Caterpillar Tractor Co.
Harnischfeger Corp.
Marvel Equipment Co.
Miss. Valley Ept. Co.
D.W. Onan & Sons, Inc.
Ready Power Co.
White Motor Co.

ELEVATORS

American Hoist & Derrick Co.
Barber-Greene Co.
Baughman Mfg. Co.
Bodinson Mfg. Co.
Butler Bin Co.
Colby Steel Form & Iron Co.
L. Burmeister Co.
Construction Machinery Co.
Conveyor Co.
F.D. Cummer & Son Co.
Engineered Equipment, Inc.
Fairfield Engineering Co.
Heltzel Steel Form & Iron Co.
Iowa Manufacturing Co.
C.S. Johnson Co.
Madsen Iron Works, Inc.
Miller & Smith Mfg. Co., Inc.
Noble Company
Lippman Engineering Works
Stephens-Adamson Mfg. Co.

ENGINES, AIR COOLED

Briggs & Stratton Corp.
Continental Motors Corp.
McCulloch Motors Corp.
D.W. Onan & Sons, Inc.
Wisconsin Motor Co.

ENGINES, DIESEL

Allis-Chalmers Mfg. Co.
Buda Company
J.I. Case Co.
Caterpillar Tractor Co.
Chicago Pneumatic Tool Co.
Continental Motors Corp.
Cummins Engine Co.
Detroit Diesel Engine Div.
Harnischfeger Corp.
Hercules Motors Corp.
Ingersoll-Rand Co.
International Harvester Co.
King-Knight Co.
Minneapolis-Moline Co.
Miss. Valley Ept. Co.
Murphy Diesel Co.
Nordberg Mfg. Co.
Novo Engine Co.
Oliver Corp.
D.W. Onan & Sons, Inc.
Page Engineering Co.
Straub Mfg. Co.
Waukesha Motor Co.
White Motor Co.

ENGINES, GAS

Allis-Chalmers Mfg. Co.
Briggs & Stratton Corp.
Buda Company
J.I. Case Co.
Continental Motors Corp.
Chrysler Corp., Engine Div.
Engineered Equipment, Inc.
Hercules Motor Corp.
Hornits Div.
Ingersoll-Rand Co.
King-Knight Co.
Kohler Co.
LeROI Division
McCulloch Motors Corp.
Minneapolis-Moline Co.
Nordberg Mfg. Co.
Novo Engine Co.
Oliver Corp.
D.W. Onan & Sons, Inc.
Reo Motors, Inc.
Waukesha Motor Co.
White Motor Co.

F**FEEDERS**

Baldwin-Lima-Hamilton Corp.
Barber-Greene Co.
Bodinson Mfg. Co.
Conveyor Co.
Diamond Iron Works
Hewitt-Robins, Inc.
Idaho Sprocket & Mach. Works
Iowa Manufacturing Co.
Lippman Engineering Works
Miller & Smith Mfg. Co., Inc.
Nordberg Mfg. Co.
Pioneer Engineering Works
Simplicity Engineering Co.
Smith Engineering Works
Stephens-Adamson Mfg. Co.
Straub Manufacturing Co.
Traylor Engrg. & Mfg. Co.
Vibro-Plus Products

FILTERS

American Air Filter Co.
Char-Lynn Co.
Chicago Bridge & Iron Co.
Dorr-Oliver, Inc.
Elmco Corp.
Victor Equipment Co.

FINISHING MACHINES

Barber-Greene Co.
Blaw Knox Co.
Dotmar Industries, Inc.
Flexible Road Joint Mch. Co.
Iowa Manufacturing Co.
Jaeger Machine Co.
Koehring Co.
Madsen Iron Works, Inc.
Whiteman Mfg. Co.

FIRE APPARATUS

Chiksan Company
Four Wheel Drive Auto Co.
Kenworth Motor Truck Corp.
Mack Trucks, Inc.
McCulloch Motors Corp.
Porto Pump, Inc.
White Motor Co.

FLAME THROWERS

Ker-O-Kil Mfg. Co.

FLEXIBLE SHAFTS

Mall Tool Co.
Master Vibrator Co.
Stow Manufacturing Co.

FLOOD LIGHTS

Homelite Div.

FLOTATION MACHINES

Morse Bros. Machinery Co.
Straub Manufacturing Co.

FOLDING SCRAPPERS

Elmco Corp.

FORCE FEED LOADERS

Athey Products Corp.
Barber-Greene Co.
Pettibone-Mulliken Corp.

FORM TIES

Economy Forms Co.
Gates & Sons, Inc.
H.J. Krueper Co.
Richmond Screw Anchor Co.
Superior Concrete Accessories
Symons Clamp Mfg. Co.
Universal Form Clamp Co.

FORMS, STEEL

Blaw Knox Co.
Chicago Bridge & Iron Co.
Conveyor Co.
Economy Forms Co.
Heltzel Steel Form & Iron Co.
Irvington Form & Tank Co.
Noble Company
Symons Clamp Mfg. Co.
United Steel Fabricators, Inc.
Universal Form Clamp Co.

FOUNDATIONS

Raymond Concrete Pile Co.

FRONT END LOADERS

Allis-Chalmers Mfg. Co.
American Tractor Ept. Co.
J.I. Case Co.
Clark Equipment Co.
Drott Manufacturing Co.
Elmco Corp.
Frank G. Hough Co.
Howry-Berg Steel & Iron Works
Hydraulic Tool & Ept. Co.
Jaeger Machine Co.

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FRONT END LOADERS (CONT.)

LeRoI Division
Mixermobile Distributors, Inc.
Oliver Corp.
Ottawa Steel Div.
Perfection Steel Body Co.
Pettibone-Mulliken Corp.
Pippin Constr. Egmt., Inc.
Reese Engineering Co.
Schramm, Inc.
Shawnee Mfg. Co.
Sherman Products, Inc.
Tractomotive Corp.
Ulrich Products Corp.
Wagner Iron Works

G**GATES**

Armco Drainage & Metal Prod. Co.
L. Burmeister Co.
Butler Bin Co.
Colorado Fuel & Iron Corp.
Gar-Bro Mfg. Co.
Howry-Berg Steel & Iron Works
Iowa Manufacturing Co.
C.S. Johnson Co.
Materials Handling, Inc.
Morse Bros. Machinery Co.
Noble Company
S.Morgan Smith Co.
Stephens-Adamson Mfg. Co.
Straub Manufacturing Co.

GENERATOR SETS

Buda Company
Cummins Engine Co.
Detroit Diesel Engine Div.
F.T. Galland & Co.
Harnischfeger Corp.
Hobart Bros.
Homelite Div.
Jackson Vibrators, Inc.
King-Knight Co.
LeRoI Division
LeTourneau-Westinghouse Co.
Maginnis Power Tool Co.
Mail Tool Co.
Marvel Equipment Co.
Master Vibrator Co.
Morse Bros. Machinery Co.
Murphy Diesel Co.
Nordberg Mfg. Co.
Novo Engine Co.
D.W. Onan & Sons, Inc.
Ready Power Co.
Stanco Mfg. Co.

GRADERS

Allis-Chalmers Mfg. Co.
Austin-Western Works
Briscoe Manufacturers of Calif.
Caterpillar Tractor Co.
Gallon Iron Works & Mfg. Co.
Gledhill Road Machinery Co.
Gradall Div., Warner-Swasey Co.
Huber Manufacturing Co.
M-B Corp.
Pettibone-Mulliken Corp.
Wausau Iron Works

GRADER BLADES

Austin-Western Works
Briscoe Manufacturers of Calif.
Clark Equipment Co.
Colorado Fuel & Iron Corp.
Electric Steel Foundry Co.
Gallon Iron Works & Mfg. Co.
Gledhill Road Machinery Co.
Hensley Equipment Co.
Earle M. Jorgensen Co.
Shunk Manufacturing Co.

GRAPPLES

Austin-Western Works
Badger Machine Co.
Blaw Knox Co.
Browning Crane & Shovel Co.
Electric Steel Foundry Co.
M.P. McCaffrey, Inc.
Owen Bucket Co.
Ruhr Industries
Schield Bantam Co.
Superior-Lidgerwood-Mundy Co.
Wellman Engineering Co.

GRAVEL PLANTS

Baldwin-Lima-Hamilton Corp.
Bodinson Mfg. Co.
Butler Bin Co.
Conveyor Co.
Diamond Iron Works
Eagle Iron Works
Howry-Berg Steel & Iron Works
Iowa Manufacturing Co.
Lippman Engineering Works
Materials Handling, Inc.
Miller & Smith Mfg. Co., Inc.
Pioneer Engineering Works

Smith Engineering Works
Stephens-Adamson Mfg. Co.
Straub Manufacturing Co.
Universal Engineering Corp.

GRINDERS

Black & Decker Mfg. Co.
Chicago Pneumatic Tool Co.
DeWalt, Inc.
Ingersoll-Rand Co.
Lippman Engineering Works
Mail Tool Co.
Marvel Equipment Co.
Nordberg Mfg. Co.
Skill Corp.
Stow Manufacturing Co.
Straub Mfg. Co.
Thor Power Tool Co.
White Manufacturing Co.
Whiteman Mfg. Co.

GRIZZLIES

Colorado Fuel & Iron Corp.
Conveyor Co.
Diamond Iron Works
Iowa Manufacturing Co.
Lippman Engineering Works
Nordberg Mfg. Co.
Simplicity Engineering Co.
Smith Engineering Works
Straub Manufacturing Co.
Symons Bros. Co.
Traylor Engineering & Mfg. Co.
Universal Engineering Corp.

GRUBBER BLADES

Drott Manufacturing Co.
Rockland Allied Egmt. Corp.

H**HAMMERS**

Arrow Tools, Inc.
Barco Manufacturing Co.
Black & Decker Mfg. Co.
Dotmar Industries, Inc.
Electric Steel Foundry Co.
Master Vibrator Co.
McKiernan-Terry Corp.
Ottawa Steel Div.
Skill Corp.
Stanco Mfg. Co.
Thor Power Tool Co.
Vulcan Iron Works

HAMMERMILLS

Diamond Iron Works
Eagle Crusher Co.
Iowa Manufacturing Co.
Lippman Engineering Works
Morse Bros. Machinery Co.
Universal Engineering Corp.

HAND WINCHES

Griphoist, Inc.
Skagit Steel & Iron Works
Stephens-Adamson Mfg. Co.

HEATERS, PORTABLE

Aeroli Products Co., Inc.
American Air Filter Co.
Herman Nelson Div.
Arthur C. Baumann Co.
Childers Mfg. Co.
Cleaver Brooks Co.
Hy-Way Machinery, Inc.
Madsen Iron Works, Inc.
Malsbary Mfg. Co.
Master Vibrator Co.
Miller Spreader Corp.
Silent Glow Oil Burner Corp.

HIGHWAY & STREET MARKERS

Cataphote Corp.
Copperweld Steel Co.
Hawkins-Hawkins Co.
M-B Corp.
Zumar Industries

HIGHWAY GUARD RAILS

Armco Drainage & Metal Prods.
Hawkins-Hawkins Co.
U.S. Spring & Bumper Co.
United Steel Fabricators, Inc.

HIGHWAY WIDENERS

Burch Corp.
Dotmar Industries, Inc.
Ulrich Products Corp.
Whiteman Mfg. Co.

HOISTS

American Hoist & Derrick Co.
Anthony Company
Beebe Bros.
Buck Equipment Corp.
C.H. & E. Manufacturing Co.
Chicago Pneumatic Tool Co.
Clipper Mfg. Co.
Clyde Iron Works, Inc.

Coffing Hoist Division
Commercial Shearing Co.
Construction Machinery Co.
Cook Bros. Equipment Co.
Duff-Norton Mfg. Co.
Engineered Equipment, Inc.
Essick Mfg. Co.
Gallon Allsteel Body Co.
Gar Wood Industries, Inc.
Griphoist, Inc.
Harnischfeger Corp.
Heil Company
Hercules Steel Products Co.
Hewitt-Robins, Inc.
Hobbs Manufacturing Co.
Hyster Company
Ingersoll-Rand Co.
Jaeger Machine Co.
Joy Manufacturing Co.
LeTourneau-Westinghouse Co.
Miss. Valley Egmt. Co.
Morse Bros. Machinery Co.
Nordberg Mfg. Co.
Novo Engine Co.
Pacific Car & Foundry Co.
Perfection Steel Body Co.
Sauerman Bros., Inc.
St. Paul Hydraulic Div.
Sasgen Derrick Co.
Skagit Steel & Iron Works
Stephens-Adamson Mfg. Co.
Sterling Machinery Co.
Superior-Lidgerwood-Mundy Co.
Thor Power Tool Co.
Unit Manufacturing Co.
Yuba Manufacturing Co.

HOPPERS

Barber-Greene Co.
Blaw Knox Co.
Bodinson Mfg. Co.
Butler Bin Co.
Conveyor Co.
Gar Wood Industries, Inc.
Gar-Bro Mfg. Co.
Heltzel Steel Form & Iron Co.
Howry-Berg Steel & Iron Works
Insley Manufacturing Co.
Koehring Co.
Miller & Smith Mfg. Co., Inc.
Noble Company
Lippman Engineering Works

HYDRAULIC COUPLINGS

Aerogulp Corp.
American Tractor Egmt. Corp.
Char-Lynn Co.
Chiksan Co.
Dixon Valve & Coupling Co.
Hydraulic Tool & Egmt. Co.
Oliver Corp.
Rodgers Hydraulic, Inc.
Twin Disc Clutch Co.
Ulrich Products Corp.

J**JACKS**

Branick Mfg. Co.
Buda Company
Duff Norton Mfg. Co.
Koehring Co.
Rodgers Hydraulic, Inc.
Symons Clamp Mfg. Co.
Templeton, Kenly & Co.

JAW CRUSHERS

Baldwin-Lima-Hamilton Corp.
Conveyor Co.
Diamond Iron Works
Eagle Crusher Co.
Iowa Manufacturing Co.
Lippman Engineering Works
Morse Bros. Machinery Co.
Nordberg Mfg. Co.
Pioneer Engineering Works
Smith Engineering Works
Straub Manufacturing Co.
Traylor Engineering & Mfg. Co.
Universal Engineering Corp.

JOINT INSTALLERS

Flexible Road Joint Mch. Co.

K**KETTLES, HEATING**

Aeroli Products Co., Inc.
Blaw Knox Co.
Clipper Mfg. Co.
Hauck Mfg. Co.
Littleford Bros., Inc.
Rosco Mfg. Co.
Salem Tool Co.
Standard Steel Works
White Mfg. Co.

KILNS

Madsen Iron Works, Inc.
Morse Bros. Machinery Co.
Nordberg Mfg. Co.
Traylor Engineering & Mfg. Co.

L**LEAF COLLECTORS**

Austin-Western Works
Gledhill Road Machinery Co.
Good Roads Machinery Co.

LEVELLERS

American Tractor Corp.
Atlas Scraper & Mfg. Co.
Be-Ge Manufacturing Co.
Essick Manufacturing Co.
Gledhill Road Machinery Co.
Howry-Berg Steel & Iron Works
Oliver Corp.

LIFT GATES

Anthony Company
Gallon Allsteel Body Co.
Gar Wood Industries, Inc.
Heil Company
Hercules Steel Products Co.
Hobbs Manufacturing Co.
Marion Metal Products Co.
S.Morgan Smith Co.
St. Paul Hydraulic Div.

LIGHTING PLANTS

Harnischfeger Corp.
Lynn Engineering Co.
D.W. Onan & Sons, Inc.
Ready Power Co., Inc.
U.S. Motors Corp.

LOADERS

Allis-Chalmers Mfg. Co.
American Tractor Corp.
American Tractor Egmt. Corp.
Athey Products Corp.
Austin-Western Works
Badger Machine Co.
Barber-Greene Co.
J.I. Case Co.
Clark Equipment Co.
Drott Manufacturing Co.
Eagle Crusher Co.
Eimco Corp.
Euclid Div., General Motors
Harnischfeger Corp.
Frank G. Hough Co.
Hyster Company
Jaeger Machine Co.
Joy Manufacturing Co.
Lippman Engineering Works
Massey-Harris-Ferguson, Inc.
Mid-Western Industries, Inc.
Mixermobile Distributors, Inc.
Oliver Corp.
Ottawa Steel Div.
Perfection Steel Body Co.
Pettibone-Mulliken Corp.
Reese Engineering Co.
Schramm, Inc.
Sherman Products, Inc.
Skagit Steel & Iron Works
Stephens-Adamson Mfg. Co.
Thew Shovel Co.
Tractomotive Corp.
Ulrich Products Corp.
Wagner Iron Works
West Coast Machinery Co.

LOGGING ARCHES

Hyster Company
LeTourneau-Westinghouse Co.
Pacific Car & Foundry Co.

LOGGING TOOLS

American Logging Tool Corp.

LUBRICATING EQUIPMENT

Alemite Division
Stewart-Warner Corp.
Gray Co., Inc.
Lincoln Engineering Co.

M**MAGNETS**

Austin-Western Works
Owen Bucket Co.
Schield Bantam Co.

MAGNET CHARGERS

D.W. Onan & Sons, Inc.
Ready Power Co.

MAGNET REELS

McCaffrey-Ruddock Tagline
Owen Bucket Co.

MAINTAINERS

Austin-Western Works
Burch Corp.
Gallion Iron Works & Mfg. Co.
Gledhill Road Machinery Co.
Huber Manufacturing Co.
Tractomotive Corp.
M-B Corp.

MIXERS

Air Placement Eqpt. Co.
Barber-Greene Co.
Blaw Knox Co.
L. Burmeister Co.
Chain Belt Co.
C.H. & E. Manufacturing Co.
Concrete Transport Mixer Co.
Construction Machinery Co.
Cook Bros. Equipment Co.
F.D. Cumber & Son Co.
Dorr-Oliver, Inc.
Engineered Equipment, Inc.
Essick Manufacturing Co.
Gilson Bros. Co.
Iowa Manufacturing Co.
Jaeger Machine Co.
Koehring Co.
C.S. Johnson Co.
Kwik-Mix Co.
Madsen Iron Works, Inc.
Martin Iron Works
Mixermobile Distributors, Inc.
Seaman Motors, Inc.
T.L. Smith Co.
Stephens-Adamson Mfg. Co.
Western Welding & Mfg. Corp.
Worthington Corp.

MIXING PLANTS

Barber-Greene Co.
Blaw Knox Co.
Bodinson Mfg. Co.
L. Burmeister Co.
Butler Bin Co.
Concrete Transport Mixer Co.
Construction Machinery Co.
Cook Bros. Equipment Co.
Conveyor Co.
Engineered Equipment, Inc.
Heltzel Steel Form & Iron Co.
Iowa Manufacturing Co.
C.S. Johnson Co.
Kwik-Mix Co.
Mixermobile Distributors, Inc.
Noble Company

MUD JACKS

Koehring Co.

MUFFLERS

Harco Manufacturing Co.

O**OIL BURNERS**

Aeroli Products Co., Inc.
Cleaver Brooks Co.
Littleford Bros., Inc.

OIL BOOSTERS

Cleaver Brooks Co.

P**PAVERS**

Barber-Greene Co.
Blaw Knox Co.
Burch Corp.
Chain Belt Co.
Detmar Industries, Inc.
Doug-Lynn Mfg. Co.
Hetherington & Berner, Inc.
Iowa Manufacturing Co.
Koehring Co.
Pioneer Engineering Works
Worthington Corp.

PAVEMENT BREAKERS

Arrow Tools, Inc.
Barco Manufacturing Co.
Brunner & Lay, Inc.
Chicago Pneumatic Tool Co.
Gardner-Denver Co.
Ingersoll-Rand Co.
Joy Manufacturing Co.
LeROI Division
Novo Engine Co.
Ottawa Steel Div.
R.P.B. Corp.
Rockland Allied Eqpt. Corp.
Schramm, Inc.
Thor Power Tool Co.
Warsop Power Tools, Inc.
Worthington Corp.

PAYING FORMS

Blaw Knox Co.
Heltzel Steel Form & Iron Co.

PEN STOCKS

Chicago Bridge & Iron Corp.

PILE EXTRACTORS

Contractors Machinery Co.
McKierman-Terry Corp.
Miss. Valley Ept. Co.
Vulcan Iron Works

PILE HAMMERS

Browning Crane & Shovel Co.
Clyde Iron Works, Inc.
Consolidated Mch. & Supply
Contractors Machinery Co.
Eagle Iron Works
Little Giant Crane & Shovel Co.
McKierman-Terry Corp.
Miss. Valley Ept. Co.
Ottawa Steel Div.
Schield Bantam Co.
Schramm, Inc.
Vulcan Iron Works

PILES, STEEL

Armco Drainage & Metal Prods.
Bethlehem Pacific Corp.
Columbia-Geneva Steel Co.
Contractors Machinery Co.
L.B. Foster Co.
Miss. Valley Ept. Co.

POST DRIVERS

Little Giant Crane & Shovel Co.

POWER CONTROL UNITS

Allis-Chalmers Mfg. Co.
Be-Ge Manufacturing Co.
Caterpillar Tractor Co.
Char-Lynn Co.
International Harvester Co.
LeTourneau-Westinghouse Co.
Monarch Road Machinery Co.
Oliver Corp.
Pacific Car & Foundry Co.
West Coast Machinery Co.
Woodridge Manufacturing Co.

POWER PLANTS

Detroit Diesel Engine Div.
Fairfield Engineering Co.
Harnischfeger Corp.
Hobart Bros.
Homelite Div.
Jackson Vibrators, Inc.
Kohler Company
LeTourneau-Westinghouse Co.
Master Vibrator Co.
Maginnis Power Tool Co.
Miss. Valley Ept. Co.
Morse Bros. Machinery Co.
Nordberg Mfg. Co.
D.W. Onan & Sons, Inc.
Ready Power Co.
Stephens-Adamson Mfg. Co.

POWDER ACTUATED TOOLS

Omark Industries
Ramset Fasteners, Inc.
Remington Arms, Inc.

POWER TAKE-OFFS

American Coleman Co.
American Tractor Corp.
Continental Motor Corp.
Davey Compressor Co.
Elmco Corp.
Gar Wood Industries, Inc.
Hercules Steel Products Corp.
Highway Trailer Co.
Hobbs Manufacturing Co.
Perfection Steel Body Co.
Twin Disc Clutch Co.

PRE-FABRICATED HOMES

Harnischfeger Corp.

PRIME MOVERS

American Coleman Co.
Elmco Corp.
Frank G. Hough Co.
Kenworth Motor Truck Corp.
LeTourneau-Westinghouse Co.
Prime Mover Co.

PULL SHOVELS

American Holist & Derrick Co.
Badger Machine Co.
Baldwin-Lima-Hamilton Corp.
Bay City Shovels, Inc.
Browning Crane & Shovel Co.
Bucyrus-Erie Co.
Byers Manufacturing Co.
Clark Equipment Co.
Hanson Clutch & Machinery Co.
Harnischfeger Corp.
Insley Mfg. Co.
Koehring Co.

Little Giant Crane & Shovel Co.
Link Belt Speeder Corp.
Northwest Engineering Co.
Quick-Way Truck Shovel Co.
Schield Bantam Co.
Thew Shovel Co.
Unit Crane & Shovel Corp.
Wayne Shovel & Crane Div.

PULVERIZERS

Eagle Crusher Co.
Gilson Bros. Co.
Iowa Manufacturing Co.
Lippman Engineering Works
Morse Bros. Machinery Co.
Oliver Corp.
Perfection Steel Body Co.
Petibone Wood Mfg. Co.
Seaman Motors, Inc.
Straub Manufacturing Co.
Towner Manufacturing Co.
Universal Engineering Co.

PUMPS, POWER

Barnes Manufacturing Co.
Berkeley Pump Co.
Ralph B. Carter Co.
Carver Pump Co.
Chain Belt Co.
C.H. & E. Manufacturing Co.
Char-Lynn Co.
Chicago Pneumatic Tool Co.
Commercial Shearing Co.
Construction Machinery Co.
Continental Motors Corp.
Dorr-Oliver, Inc.
Essick Manufacturing Co.
Gardner-Denver Co.
Gorman-Rupp Co.
Homelite Div.
Ingersoll-Rand Co.
Jaeger Machine Co.
Lincoln Engineering Co.
Lull Tool Co.
Marlow Pumps
Morse Bros. Machinery Co.
McCulloch Motors Corp.
Novo Engine Co.
Pacific Pumping Co.
Peerless Pump Div.
Porto Pump, Inc.
Quincy Compressor Co.
S. Morgan Smith Co.
Stanco Manufacturing Co.
Sterling Machinery Co.
Thor Power Tool Co.
Viking Pump Co.
H.S. Watson Co.
Wausau Iron Works
Western Welding & Mfg. Corp.
Worthington Corp.

RAMMERS

Barco Manufacturing Co.
Chicago Pneumatic Tool Co.
Ingersoll-Rand Co.
Warsop Power Tools, Inc.

REFLECTOR BUTTONS

Cataphote Corp.
Hawkins-Hawkins Co.
Zumar Industries

REFUSE COLLECTION UNITS

Gar Wood Industries, Inc.
Good Roads Machinery Co.
Heil Company
M-B Corp.
Marion Metal Products Co.
St. Paul Hydraulic Div.
Towner Manufacturing Co.

RIPPERS

American Tractor Corp.
Atlas Scraper & Engineering Co.
Caterpillar Tractor Co.
Drott Manufacturing Co.
Electric Steel Foundry Co.
Gar Wood Industries, Inc.
Greenville Steel Car Co.
H & L Tooth Co.
Hensley Equipment Co.
Hydraulic Tool & Ept. Co.
LeTourneau-Westinghouse Co.
Los Angeles Steel Casting Co.
Rockland Allied Ept. Co.
Southwest Welding & Mfg. Co.
Tractomotive Corp.
Woodridge Manufacturing Co.

ROAD MIXERS

Austin-Western Works
Barber-Greene Co.
Burch Corp.
Harnischfeger Corp.
Kwik-Mix Co.
Petibone-Wood Mfg. Co.
Seaman Motors, Inc.

ROCK BITS

Brunner & Lay, Inc.
Chicago Pneumatic Tool Co.
Hensley Equipment Co.
Ingersoll-Rand Co.
LeROI Div.
Schramm, Inc.
Stanco Mfg. Co.
Thor Power Tool Co.
Timken Roller Bearing Co.

ROCK DRILLS

Barco Manufacturing Co.
Chicago Pneumatic Tool Co.
Davey Compressor Co.
Eugene Engineering Co.
Gardner-Denver Co.
Ingersoll-Rand Co.
Joy Manufacturing Co.
LeROI Division
Pippin Const. Eqpt., Inc.
Salem Tool Co.
Schramm, Inc.
Stanco Mfg. Co.
Thor Power Tool Co.
Warsop Power Tools, Inc.
Winter-Weiss Co.
Worthington Corp.

ROCKER SHOVELS

Elmco Corp.

ROCK & GRAVEL EQUIPMENT

Baldwin-Lima-Hamilton Corp.
Bodinson Mfg. Co.
Butler Bin Co.
Conveyor Co.
Diamond Iron Works
Eagle Iron Works
Frank G. Hough Co.
Howry-Berg Steel & Iron Works
Iowa Manufacturing Co.
Lippman Engineering Works
Miller & Smith Mfg. Co., Inc.
Pioneer Engineering Works
Rockland Allied Ept. Co.
Smith Engineering Works
Straub Manufacturing Co.
Thew Shovel Co.
Unit Crane & Shovel Co.
Universal Engineering Corp.

ROCK & SAND MIXERS

Bodinson Manufacturing Co.
Conveyor Co.
Iowa Manufacturing Co.
Madsen Iron Works
Pioneer Engineering Works

ROLLERS, ROAD

All Purpose Spreader Co., Inc.
Austin-Western Works
Wm. Bros. Boiler & Mfg. Co.
Buffalo-Springfield Roller Co.
C.H. & E. Manufacturing Co.
Essick Manufacturing Co.
Flaherty Mfg., Inc.
Gallion Iron Works & Mfg. Co.
W.E. Grace Mfg. Co.
Iowa Manufacturing Co.
Hensley Equipment Co.
Huber Manufacturing Co.
Hyster Company
LeTourneau-Westinghouse
Browning Manufacturing Co.
Littleford Bros., Inc.
Southwest Welding & Mfg. Co.
Standard Steel Works
Tampo Manufacturing Co.
Wagner Tractor, Inc.
Western Welding & Mfg. Corp.

ROTARY SNOW PLOWS

Austin-Western Works
Wm. Bros. Boiler & Mfg. Co.
Four Wheel Drive Auto Co.
Frank G. Hough Co.
Oliver Corp.
Ulrich Products Corp.
Walter Motor Truck Co.

S**SAND BLASTING EQUIPMENT**

Air Placement Ept. Co.
Safetee Products Co.
Sanstom Mfg. Co.
Schramm, Inc.
Victor Equipment Co.

SAWS, POWER

Black & Decker Mfg. Co.
C.H. & E. Manufacturing Co.
Chicago Pneumatic Tool Co.
Clipper Manufacturing Co.
Consolidated Mch. & Supply
Construction Machinery Co.

CONTINUED ON NEXT PAGE

SAWS, POWER (CONTINUED)

DeWalt, Inc.
Feller Mfg. Co.
Homelite Div.
McCulloch Motors Corp.
Mall Tool Co.
Oliver Corp.
Skill Corp.
Thor Power Tool Co.
Wright Power Saw & Tool Co.

SAW RIGS

C.H. & E. Manufacturing Co.
Clipper Manufacturing Co.
Construction Machinery Co.
Oliver Corp.

SCALES, CONTRACTORS

J. Burmeister Co.
Butler Bin Co.
Construction Machinery Co.
Conveyor Co.
C.S. Johnson Co.
L.R. Murphy Co.

SCAFFOLDING

The Patent Scaffolding Co.
Safway Steel Products, Inc.
Superior Scaffold Co.
Universal Mfg. Corp.

SCARIFIER TEETH

American Tractor Corp.
Austin-Western Works
Drott Manufacturing Co.
Electric Steel Foundry Co.
Gallion Iron Works & Mfg. Co.
H & L Tooth Co.
Hensley Equipment Co.
Rockland Allied Eqpt. Corp.
Shunk Manufacturing Co.

SCRAPERS

Allis-Chalmers Mfg. Co.
American Tractor Eqpt. Corp.
Atlas Scraper & Engr. Co.
Be-Ge Manufacturing Co.
Burch Corp.
Caterpillar Tractor Co.
Colorado Fuel & Iron Corp.
Elmcro Corp.
Euclid Div., G.M.C.
Gar Wood Industries, Inc.
Good Roads Machinery Co.
Hydraulic Tool & Eqpt. Co.
LeTourneau-Westinghouse Co.
Oliver Corp.
Sauerman Bros.
Southwest Welding & Mfg. Co.
Wagner Tractor, Inc.
Wooldridge Mfg. Co.

SCREENS

Baldwin-Lima-Hamilton Corp.
Bodinson Mfg. Co.
Colorado Fuel & Iron Corp.
Conveyor Co.
Diamond Iron Works
Hewitt-Robins, Inc.
Iowa Manufacturing Co.
Kolman Manufacturing Co.
Lippman Engineering Works
Morse Bros. Machinery Co.
Nordberg Mfg. Co.
Overstrom & Sons
Pioneer Engineering Works
Screen Equipment, Inc.
Simplicity Engineering Co.
Smith Engineering Works
Stephens-Adamson Mfg. Co.
Straub Mfg. Co.
Symons Bros. Co.
Universal Engineering Corp.
Charles Wood Co.
Yuba Manufacturing Co.

SCREENS, VIBRATING

Hewitt-Robins, Inc.
Lippman Engineering Works
Overstrom & Sons
Simplicity Engineering Co.
Stephens-Adamson Co.
Charles Wood Co.

SHEEPFOOT ROLLERS

Wm. Bros. Boiler & Mfg. Co.
Browning Mfg. Co.
Chester Products Co.
Electric Steel Foundry
LeTourneau-Westinghouse Co.
Los Angeles Steel Casting Co.
M.P. McCaffrey, Inc.
Southwest Welding & Mfg. Co.
Tampo Manufacturing Co.

SNOW PLOWS

American Tractor Corp.
Atlas Scraper & Engr. Co.
Austin-Western Works
Wm. Bros. Boiler & Mfg. Co.
Burch Corp.
Davenport-Besler Corp.

Four Wheel Drive Auto Co.
Gledhill Road Machinery Co.
Good Roads Machinery Co.
Frank G. Hough Co.
Klauser Manufacturing Co.
LeTourneau-Westinghouse Co.
Oliver Corp.
Schramm, Inc.
Ulrich Products Corp.
Wagner Iron Works
Walter Motor Truck Co.
Wausau Iron Works

SNOW VEHICLES

American Coleman Co.
Lull Engineering Co.
Pippin Constr. Eqpt., Inc.
Tucker Sno-Cat Corp.
Walter Motor Truck Co.

SOIL COMPACTION UNITS

Austin-Western Co.
Barco Manufacturing Co.
Wm. Bros. Boiler & Mfg. Co.
Buffalo-Springfield Roller Co.
W.E. Grace Mfg. Co.
Iowa Manufacturing Co.
Jackson Vibrators, Inc.
Jay Company
LeTourneau-Westinghouse Co.
Ottawa Steel Div.
Tampo Manufacturing Co.
Vibro-Plus Products, Inc.

SOIL STABILIZERS

Air Placement Eqpt. Corp.
Austin-Western Works
Hamischfeger Corp.
Hercules Steel Products Corp.
Madsen Works Div.
Rosco Manufacturing Co.
Seaman Motors, Inc.

SPREADERS

Baughman Manufacturing Co.
Blaw Knox Co.
Burch Corp.
Essick Manufacturing Co.
Fairfield Engineering Co.
Flaherty Mfg., Inc.
Gledhill Road Machinery Co.
Good Roads Machinery Co.
Hercules Steel Products Co.
Highway Equipment Co.
Jaeger Machine Co.
Miller & Smith Mfg. Co., Inc.
Miller Spreader Corp.
Pettibone Wood Mfg. Co.
Spears-Wells Machinery Co.
Standard Steel Works
Wausau Iron Works

SHOVELS, POWER

American Hoist & Derrick Co.
Austin-Western Works
Badger Machine Co.
Baldwin-Lima-Hamilton Corp.
Bay City Shovels, Inc.
Browning Crane & Shovel Co.
Bucyrus-Erie Co.
Byers Manufacturing Co.
Caterpillar Tractor Co.
Clark Equipment Co.
Cook Bros. Equipment Co.
Gar Wood Industries, Inc.
Hanson Clutch & Machinery Co.
Harnischfeger Corp.
Insley Manufacturing Co.
Koehring Co.
Link Belt Speeder Corp.
Manitowoc Engineering Works
Miss. Valley Eqpt. Co.
Northwest Engineering Co.
Quick-Way Truck Shovel Co.
Schield Bantam Co.
Thew Shovel Co.
Tractomotive Corp.
Unit Crane & Shovel Co.
Wayne Shovel & Crane Div.

SIDEWALK FORMS

Blaw Knox Co.

SIDEWALK PAVERS

Dotmar Industries, Inc.
Koehring Co.

SKID LOADERS

Drott Manufacturing Co.
Hyster Company
Reese Engineering Co.

SMOKE STACKS

Wm. Bros. Boiler & Mfg. Co.
Chicago Bridge & Iron Corp.

SNAP TIES

Economy Forms Co.
Richmond Screw Anchor Co.
Superior Concrete Accessories
Symons Clamp & Mfg. Co.
Universal Form Clamp Co.

STAND PIPES

Chicago Bridge & Iron Corp.

STEAM GENERATORS

Wm. Bros. Boiler & Mfg. Co.
Cleave Brooks Co.
Littleford Bros., Inc.
Madsen Iron Works, Inc.
Malsbary Mfg. Co.
McKiernan-Terry Corp.
Miss. Valley Eqpt. Co.
Morse Bros. Machinery Co.

STEERING DEVICES

Garrison Manufacturing Co.
Superior-Lidgerwood-Mundy Corp.

STORAGE BINS

Armco Drainage & Metal Prods.
Blaw Knox Co.
Bodinson Mfg. Co.
L. Burmeister Co.
Butler Bin Co.
Chicago Bridge & Iron Co.
Construction Machinery Co.
Conveyor Co.
F.D. Cummer & Son Co.
Diamond Iron Works
Gar-Bro Mfg. Co.
Heltzel Steel Form & Iron Co.
Howry-Berg Steel & Iron Works
Iowa Manufacturing Co.
C.S. Johnson Co.
Koehring Co.
Lippman Engineering Works
Miller & Smith Mfg. Co., Inc.
Noble Company
Pioneer Engineering Works
Tampo Manufacturing Co.
Universal Engineering Corp.

STREET & HIGHWAY MARKERS

Cataphote Corp.
Hawkins-Hawkins Co.
M-B Corp.
Zumar Industries

STREET FLUSHERS

E.D. Etnyre & Co.
Gunnison Mfg. Co.
Municipal Supply Co.
Rosco Manufacturing Co.
Spears-Wells Machinery Co.
Standard Steel Works

STREET SWEEPERS

Austin-Western Works
Conveyor Co.
W.E. Grace Mfg. Co.
Frank G. Hough Co.
Lull Engineering Co.
M-B Corp.
Massey-Harris-Ferguson, Inc.
Municipal Supply Co.
Rosco Manufacturing Co.
Spears-Wells Machinery Co.
Standard Steel Works
Wayne Manufacturing Co.

SUB GRADERS

Austin-Western Works
Blaw Knox Co.

SUMP PUMPS

Barnes Manufacturing Co.
Chicago Pneumatic Tool Co.
Ingersoll-Rand Co.
Mall Tool Co.
Pacific Pumping Co.
Schramm, Inc.
Sterling Machinery Co.
Thor Power Tool Co.

SURVEY MARKERS

Copperweld Steel Co.

Schramm, Inc.
Thor Power Tool Co.
Vibro-Plus Products, Inc.
Whiteman Mfg. Co.
Worthington Corp.

TAMPING ROLLERS

American Tractor Eqpt. Co.
Blaw Knox Co.
Wm. Bros. Boiler & Mfg. Co.
W.E. Grace Mfg. Co.
Hyster Company
Iowa Manufacturing Co.
Tampo Manufacturing Co.

TANDEM ROLLERS

Austin-Western Works
Buffalo-Springfield Roller Co.
C.H. & E. Manufacturing Co.
Clyde Iron Works
Essick Manufacturing Co.
Gallion Iron Works & Mfg. Co.

TANKS

Wm. Bros. Boiler & Mfg. Co.
Chicago Bridge & Iron Co.
Howry-Berg Steel & Iron Works
Lippman Engineering Works
Littleford Bros., Inc.
Morse Bros. Mfg. Co.
Spears-Wells Machinery Co.

TANK CAR HEATERS

Wm. Bros. Boiler & Mfg. Co.
Cleave Brooks Co.
W.E. Grace Mfg. Co.
Littleford Bros., Inc.
Spears-Wells Machinery Co.

TRACTORS

Allis-Chalmers Mfg. Co.
American Coleman Co.
American Tractor Corp.
Buda Co. (Industrial)
J.I. Case Co.
Caterpillar Tractor Co.
Elmcro Corp.
Euclid Div., General Motors
Four Wheel Drive Auto Co.
International Harvester Co.
LeROI Company
LeTourneau-Westinghouse Co.
Frank G. Hough Co.
Massey-Harris-Ferguson, Inc.
Minneapolis-Moline Co.
Mixermobile Distributors, Inc.
M-R-S Manufacturing Co.
Oliver Corp.
Reese Engineering Co.
Toro Manufacturing Corp.
Wagner Tractor, Inc.

TRAFFIC LANE MARKERS

Cataphote Corp.
Gledhill Road Machinery Co.
Hawkins-Hawkins Co.
M-B Corp.
Zumar Industries

TRAFFIC SIGNS

Cataphote Corp.
W.E. Grace Mfg. Co.
Hawkins-Hawkins Co.
Zumar Industries

TRAILERS

American Tractor Corp.
Athey Products Corp.
C.H. & E. Manufacturing Co.
Cleveland Trencher Co.
Cook Bros. Equipment Co.
Euclid Div., General Motors
F.A.B. Manufacturing Co.
Foster Trailer Co.
Four Wheel Drive Auto Co.
Fruehauf Trailer Co.
Gallion Allsteel Body Co.
Hanson Clutch & Mch. Co.
Highway Trailer Co.
Hobbs Manufacturing Co.
LaCrosse Trailer Corp.
LeTourneau-Westinghouse Co.
Martin Machine Co.
M-B Corp.
Miller & Smith Mfg. Co., Inc.
Perfection Steel Body Co.
Rogers Bros. Corp.
Selma Manufacturing Co.
Towner Manufacturing Co.
Trailmobile, Inc.
Transport Trailers, Inc.
Utility Trailer Mfg. Co.
Winter-Weiss Co.

TRANSMISSIONS

F.A.B. Manufacturing Co.
Fuller Manufacturing Co.
Stephens-Adamson Mfg. Co.
H.S. Watson Co.

RANCHERS

Arps Corp.
Badger Machine Co.
Barber-Greene Co.
Be-Ge Manufacturing Co.
Byers Manufacturing Co.
Cleveland Trencher Co.
Earth Equipment Corp.
Gar Wood Industries, Inc.
Gradall Div., Warner Swasey
Jetco, Inc.
Joy Manufacturing Co.
Koehring Co.
Massey-Harris-Ferguson, Inc.
Northwest Engineering Co.
Oliver Corp.
Parsons Co.
Quick-Way Truck Shovel Co.
Shawnee Mfg. Co.
Sherman Products, Inc.

RANCH HOES

Badger Machine Co.
Barber-Greene Co.
Be-Ge Manufacturing Co.
Byers Manufacturing Co.
Electric Steel Foundry Co.
Gradall Div., Warner Swasey
Hanson Clutch & Machinery Co.
Harnischfeger Corp.
Insley Manufacturing Co.
Koehring Co.
Little Giant Crane & Shovel Co.
Link Belt Speeder Corp.
Manitowoc Engineering Corp.
Northwest Engineering Co.
Oliver Corp.
Ottawa Steel Div.
Schield Bantam Co.
Shawnee Manufacturing Co.
Thew Shovel Co.
Unit Crane & Shovel Corp.
Wagner Iron Works
Wayne Crane Division

RUCKS

American Coleman Co.
Cook Bros. Equipment Co.
Dart Truck Co.
Dodge Div., Chrysler Corp.
Euclid Div., General Motors
F.A.B. Manufacturing Co.
Four Wheel Drive Auto Co.
G.M.C. Truck & Coach Div.
International Harvester Co.
Kenworth Motor Truck Corp.
Koehring Co.
Mack Trucks, Inc.
Marmon-Herrington Co.
Oshkosh Motor Trucks, Inc.
Peterbilt Motors Co.
Rec Motors, Inc.
Sterling Div., White Motor Co.
Walter Motor Truck Co.
White Motor Co.
Willis Motors, Inc.

TRUCK BODIES

Anthony Company
Baughman Mfg. Co.
Cook Bros. Equipment Co.
F.A.B. Manufacturing Co.
Fruehauf Trailer Co.
Gallon Allsteel Body Co.
Gar Wood Industries, Inc.
Heil Company
Hercules Steel Products Co.
Highway Trailer Co.
Hobbs Manufacturing Co.
Perfection Steel Body Co.
Selma Trailer & Mfg. Co.
St. Paul Hydraulic Div.
Trailmobile Co.
Winter-Weiss Co.

TRUCK CRANES

American Hoist & Derrick Co.
Austin-Western Works
Badger Machine Co.
Baldwin-Lima-Hamilton Corp.
Bay City Shovel, Inc.
Browning Crane & Shovel Co.
Bucyrus-Erie Co.
Byers Manufacturing Co.
Clark Equipment Co.
Cook Bros. Equipment Co.
Gar Wood Industries, Inc.
Hanson Clutch & Machinery Co.
Harnischfeger Corp.
Insley Manufacturing Co.
Koehring Co.
Little Giant Crane & Shovel Co.
Link Belt Speeder Corp.
Manitowoc Engineering Corp.
Northwest Engineering Co.
Quick-Way Truck Shovel Co.

Schield Bantam Co.
Thew Shovel Co.
Unit Crane & Shovel Corp.
Wayne Shovel & Crane Div.

TRUCK MIXERS

Blaw Knox Co.
Chain Belt Co.
Concrete Transport Mixer Co.
Construction Machinery Co.
Cook Bros. Equipment Co.
Jaeger Machine Co.
Kenworth Motor Truck Corp.
Koehring Co.
Mixermobile Distributors, Inc.
T.L. Smith Co.
Whiteman Manufacturing Co.
Willard Concrete Mch. Co.
Worthington Corp.

TRUCK SHOVELS

American Hoist & Derrick Co.
Badger Machine Co.
Baldwin-Lima-Hamilton Corp.
Bay City Shovels, Inc.
Browning Crane & Shovel Co.
Bucyrus-Erie Co.
Byers Manufacturing Co.
Clark Equipment Co.
Cook Bros. Equipment Co.
Gradall Div., Warner Swasey
Hanson Clutch & Mch. Co.
Harnischfeger Corp.
Insley Manufacturing Co.
Koehring Co.
Little Giant Crane & Shovel Co.
Link Belt Speeder Corp.
Northwest Engineering Co.
Quick-Way Truck Shovel Co.
Schield Bantam Co.
Thew Shovel Co.
Wayne Crane Division

TUNNEL & DAM FORMS

Blaw Knox Co.
Chicago Bridge & Iron Corp.
Commercial Shearing Co.
Conveyor Co.
Irvington Form & Tank Co.
Superior Concrete Accessories
Symons Clamp Mfg. Co.

V**VACUUM FILTERS**

Chicago Bridge & Iron Co.
Dorr-Oliver, Inc.
Eimco Corp.

VALVES

American Tractor Eqpt. Corp.
Atlas Scraper & Engrg. Co.
Branick Manufacturing Co.
Char-Lynn Co.
Commercial Shearing Co.
Dixon Valve & Coupling Co.
Garrison Manufacturing Co.
Madsen Iron Works, Inc.
Martin Iron Works
Reese Engineering Co.
S.Morgan Smith Co.

VIBRATORS

Blaw Knox Co.
Butler Bin Co.
Chicago Pneumatic Tool Co.
Cleveland Vibrator Co.
Conveyor Co.
Dreyer Vibrator Co.
Gar-Bro Manufacturing Co.
Ingersoll-Rand Co.
The International Vibration Co.
Jackson Vibrators, Inc.
Maginnis Power Tool Co.
Mall Tool Co.
Marvel Equipment Co.
Master Vibrator Co.
Stephens-Adamson Mfg. Co.
Stow Manufacturing Co.
Thor Power Tool Co.
Vibor Company
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Dart Truck Co.
Insley Manufacturing Co.
M-R-S Manufacturing Co.
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Perfection Steel Body Co.
Selma Trailer & Mfg. Co.
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Cook Bros. Equipment Co.
Hanson Clutch & Mch. Co.
Insley Manufacturing Co.
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Northwest Engineering Co.
Schield Bantam Co.
Unit Crane & Shovel Corp.
Wayne Shovel & Crane Div.

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Gardner-Denver Co.
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Joy Manufacturing Co.
LeRoi Division
Schramm, Inc.
Thor Power Tool Co.
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Site selection next for Green Peter project

FIRST STAGE DRILLING at site No. 3 for the \$58,400,000 Green Peter project on the Middle Santiam River has been completed, Colonel Jackson Graham, Portland District Engineer, announced recently.

He also said damsite and reservoir surveys are under way on the Holley Dam project on the Calapooya River and that foundation drilling will be started in the near future.

First stage drilling at Green Peter site No. 5 began in 1948. Available information on the four alternative sites will be studied and a site selection report prepared this year. There are about five miles of canyon in which the project could be located on the Middle Santiam above the confluence with the South Santiam River.

As soon as reservoir maps for Green Peter are completed, prelimi-

nary relocation studies will be made. Site selection studies are under way in connection with an alternative site for the proposed White Bridge reregulating dam, downstream from Green Peter.

If the alternative site proves to be satisfactory, an appropriate recommendation will be included in the forthcoming No. 308 review report.

Gaging stations have been installed along the Calapooya River below the Holley Dam site, 490.7 mi. above that stream's mouth, to obtain basic information for channel capacity studies. Highway and railroad relocation studies for the \$12,500,000 Holley project are already under way.

Congress appropriated \$100,000 for planning the Green Peter project, which includes White Bridge reregulating dam, for the fiscal year 1956

and \$200,000 for the current 1957 fiscal year. Holley Dam project received \$100,000 for this fiscal year. All of this money will be used for planning.

Green Peter is one unit of the alternative plan proposed for the South Santiam Basin in lieu of the previously authorized Sweet Home project.

Preliminary plans prepared for the Green Peter project in 1948 called for a dam to be constructed of earth and rock fill about 1,200 ft. long at the crest and about 370 ft. high from foundation to crest. A straight, free-overflow chute spillway will be located in the left abutment as will the outlet and power tunnels.

The powerhouse will have two generating units with an installed capacity of 81,000 kw.

The reservoir will provide 32,000 ac.-ft. of usable storage of which 270,000 ac.-ft. will be available for flood regulation and 52,000 ac.-ft. for power production.

It is proposed to operate the Green Peter power plant at a 40% critical power period load factor. This would produce daily fluctuations in stream flow below the dam requiring the White Bridge reregulating reservoir downstream from Green Peter Dam. White Bridge would also generate power, with installed capacity of 15,000 kw.

Five years will be required to construct the Green Peter project.

It will have total average annual benefits estimated at \$3,971,800. The project will prevent annual damages of \$1,589,700.

Holley Dam will be an earth and gravel-fill type embankment 4,700 ft. long with a maximum height of 160 ft. from foundation to crest. A straight, free overflow, chute-type spillway 180 ft. wide will be located on the left abutment.

The Holley reservoir will have 90,000 ac.-ft. of usable flood control storage and will be operated as a unit of the coordinated reservoir system planned by the Corps of Engineers for the Willamette River Basin. Minor day use recreational facilities will be provided.

Total average annual benefits from Holley Dam will be \$1,044,100. The project will prevent average annual damages of \$585,900.



AUTOMOTIVE PLANT WILL COVER 23½ ACRES

Construction of the largest Mercury Plant in the world has reached 70% completion according to J. H. Pomeroy & Co., Inc., contractors and engineers of San Francisco and Los Angeles who are building the huge facility for the Ford Motor Company. Assembly line equipment is arriving daily for installation. The main assembly plant is 1,152 ft. long and 935 ft. wide. The floor area under roof amounts to 23½ ac. which places this plant among the very largest manufacturing facilities in the Los Angeles metropolitan area. The only automotive plant of comparable size in the West is the Ford division assembly plant built by the J. H. Pomeroy organization two years ago at San Jose, California.

The new Mercury plant is located on a 200-ac. site bounded by Rosemead and Washington Boulevards in Los Angeles. Before the project is completed the contractor will pour approximately 50,000 yd. of concrete. Pacific Iron and Steel erected approximately 9,000 tons of structural steel. There are approximately 2½ mi. of on-site railroad sidings and some 3½ mi. of classification yard trackage on the adjacent Santa Fe Railroad property. The design of the plant consists of tilt-up concrete sill walls, industrial sash, fluted aluminum siding steel deck and built-up roofing. The structures are designed to withstand earthquakes. The design of the foundations consists of bored-in-place concrete friction piles 45 to 60 ft. in depth using clusters of 6 to 9 per column.

NEW **CONVEYCO** HIGH SPEED-BIG CAPACITY BATCH PLANT SYSTEM

Features Easy Highway Portability

***PLUS LOW SET-UP COST**

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September 21, 1956

The Conveyor Company
3260 East Slauson Avenue
Los Angeles 58, California

Attention: Mr. W. E. Saxe, President

Dear Walter:

It is a pleasure to let you know that our new CONVEYCO Portable Batch Plant has been set up and is operating very satisfactorily.

In response to your inquiry, we estimate our site set-up cost on this plant will not normally exceed \$700.00, and the take-down, including loading, should not exceed \$200.00.

We have successfully, and without variation, batched a 1-1/3 yard batch every twenty (20) seconds on using three (3) sizes of aggregate.

Yours very truly,

SERVICE ROCK COMPANY

P. M. Hayden

P. M. Hayden
Vice President

PMI:gjb

**Keep Your Plant Close to the Job . . .
For Paver Dry Batching, or Truck Mixers**

A big capacity plant design to move on highways on its own wheels. Users report exceptionally Low Costs for set-up on job site and take-down for moving. Truck, dry batch, or mixer truck hauls are kept to a minimum.

**Self-contained Patented
500 Bbl. Cement Silo —**

Fully portable traveling as a semi-trailer. A weather-proof bulk cement storage unit.

Batch Bin, Gates, Fully Enclosed Operator Platform and Air System — Travel on own wheels as semi-trailer . . . meeting highway clearance requirements. Loads by radial belt conveyor or front end loader.

Portable Truck Dump Hopper — Permits unloading from rear end or bottom dump trucks.

Self-Propelled Radial Conveyor — Loads batch bins as well as stockpiles materials. Travels as a semi-trailer.

Automatic Operation — Manual or any combination of Conveyco automatic weighing and recording systems available as specifications require.

**Learn How This Plant
Can Increase Your Profits**



THE CONVEYOR COMPANY

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See manufacturer's detailed listing in Yellow Section

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DESIGN FOR
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Plus
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IF it's an OWEN BUCKET

Yes, there are decided differences between OWEN clamshell buckets and clamshell buckets.

These differences originate in the engineering department, on the drawing board and culminate in actual superior bucket operation.

Make your own opinion-survey of "bucketwise" crane operators. You'll find the big majority of them will express a definite preference for OWEN buckets.

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Unique heating plant

FIRST of its type, a \$3,500,000 building and plant will be built to supply both heat and air conditioning for nine buildings located in the Los Angeles Civic Center group. Concrete tunnels will extend from this new central plant to carry the heating and refrigeration pipes underground throughout the civic center area. Contract has been awarded to Haas-Haynie-Frandsen, Inc., of Beverly Hills for the project. An important consideration is the fact that the building will have an architectural exterior in keeping with other structures of the civic center area and will in no way resemble the old fashioned power plant.

UCLA building program

A FIVE-YEAR building program totaling \$40,000,000 and adding 32 new buildings will extend the campus of the University of California at Los Angeles by 1961 to take care of the predicted enrollment of 24,000. Financing of the expansion program will be through state, federal and university funds.

One of the features will be two multi-storied parking structures with the cost repaid with income from parking fees charged to students and faculty members. The Engineering Building will receive a third addition.

Tallamy is nominee for Highway Administrator

BERTRAM D. TALLAMY, who has served as head of the New York State Thruway Authority, has been selected as the nominee for the new position of Federal Highway Administrator. This selection will be placed before Congress in January. In the meantime, John A. Volpe, who recently resigned as commissioner of public works for the state of Massachusetts and has been head of his own contracting organization, the John A. Volpe Construction Co., will serve as the interim administrator, until the permanent appointment has been confirmed.

The man selected as the permanent administrator of the program has had an extended career in engineering and construction culminating in directing the New York State 562-mi. toll express system. Early in his career Tallamy was in private practice and later served on the planning board which made the original studies for the present express system. In 1947 he was appointed chief engineer of the New York Public Works Dept., later serving as superintendent of that department.

See manufacturer's detailed listing in Yellow Section

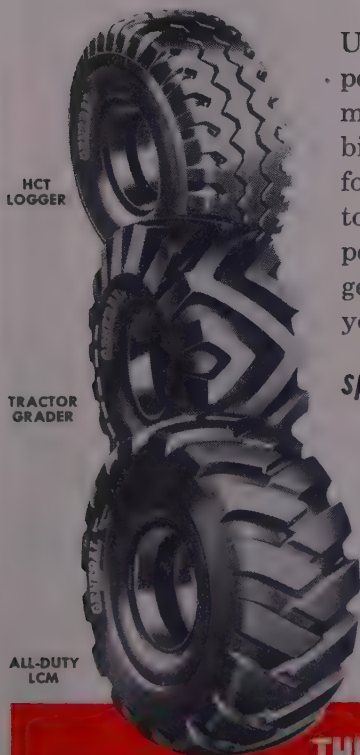
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*Stronger
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THE
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TRUCK TIRE



THE GENERAL TIRE & RUBBER CO., Akron, Ohio

C of E announces program

**North Pacific Division
will spend \$97,000,000 dur-
ing current fiscal year**

A PROGRAM of civil works construction involving an expenditure of approximately \$97,000,000 during the current fiscal year ending June 30, 1957, has been announced by Brigadier General L. H. Foote, North Pacific Division Engineer of the Army Corps of Engineers.

General Foote said his office had scheduled bid openings for construction projects including river and harbor improvements, erection of buildings, paving, repair of jetties, constructing earth-fill dams, building access roads and rail and highway relocations. Contract bids for the projects, ranging from \$100,000 to over \$10,000,000 in estimated cost, will be opened by district engineers of the four districts in the North Pacific Division—Portland, Seattle, Walla Walla and Alaska.

The Portland District Engineer will open bids on two major projects estimated to cost over \$10,000,000 each.

One project in the \$10,000,000 bracket, bids for which are to be opened March 15, 1957, calls for construction of an earth and gravel fill dam, outlet works, power intake, detour roads and bridges in connection with Hills Creek Reservoir on the Middle Fork Willamette River, 26 mi. upstream from Lookout Point Dam.

Other work in connection with Hills Creek Reservoir for which bids will be opened are: bridge for upper crossing of west side road, Middle Fork Willamette River, March 29; bridge over lower crossing of west side road of the same river, June 28; two contracts for constructing a road on the west side of the Hills Creek Reservoir, March 29 and June 28.

Bids will be opened by the Portland District March 28 for work estimated to cost in the neighborhood of \$10,000,000 involving construction of a rock and earth-fill dam, outlet works, and power intake in connection with Cougar Reservoir on the South Fork McKenzie River.

The Portland District will open bids June 11 for improvement of the Johnson Creek channel in Portland, consisting of clearing and channel rectification in the interest of flood control.

Seattle District will open bids on three projects in connection with Eagle Gorge Dam on the Green River in the vicinity of Seattle. Bids will be received for opening January 24 on construction of a rock-fill dam, spillway, outlet works and site access roads.

Walla Walla District opened bids November 27 for construction of a powerhouse skeleton structure, spillway bays, south shore fishladder and left abutment of Ice Harbor Dam on the lower Snake River in Washington. The work is estimated to cost more than \$10,000,000. Other work in connection with Ice Harbor Dam for which bids will be opened by the Walla Walla District include a water supply system, December 17; intake gantry crane, April 1; relocation of S.P. & S. Railway tracks in vicinity of the dam, January 4.



The LIMA ROADPACKER ... faster high-density compaction at lower cost

The penetrating vibration of six heavy vibrating shoes compacts macadam bases and gravel sub-bases to specified densities.

Course aggregate for macadam bases up to 12" thick can be spread in a single layer, then uniformly compacted to final density over a 13'1" width with the LIMA Roadpacker.

Single spread, which is permissible only with the vibratory method, reduces material handling by one-half or more—it

eliminates backtracking of spreading equipment and contour shaping is needed only once.

The action of the vibration "runs in" screenings to full depth of macadam with only three operations. Much of the labor formerly required to spread, broom and roll is eliminated.

The versatile LIMA Roadpacker performs with equal efficiency on both full-width and widening jobs.

Here's how the LIMA Roadpacker speeds up paving operations.

- Drives to job at 30 MPH.
- Compacts equally well traveling forward or reverse—no deadheading or turning around when two passes are required.
- Covers a 13-ft., 1-in. width, one half of a two lane road.
- Operator can easily fold end shoes for

narrower working widths or for highway travel. Shoes are raised and lowered hydraulically.

- Low maintenance—all working parts are completely enclosed, can even operate under water or dirt. Shoes are driven hydraulically and are pressure-lubricated.

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See manufacturer's detailed listing in Yellow Section

L.A. removes height limit

BUILDING CONSTRUCTION in Los Angeles County is scheduled to break through the height barrier with a 22-story apartment building to cost about \$10,000,000. The height restriction which has been in effect for many years has recently been removed by action of the Board of Supervisors, with specific reference to property outside the city limits of Los Angeles. The structure which will take first advantage of this change will be this cooperative apartment building located in county territory near the edge of Beverly Hills.

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AIR REDUCTION PACIFIC COMPANY

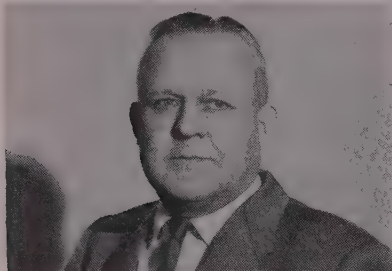
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Air Reduction Pacific Company is a division of Air Reduction Company, Incorporated. Principal products of other divisions include: PURECO — carbon dioxide, liquid-solid ("DRY-ICE") • OHIO — medical gases and hospital equipment • NATIONAL CARBIDE — pipeline acetylene and calcium carbide • AIRCO — acetylenic chemicals • COLTON — polyvinyl-acetates, — alcohols, and other synthetic resins.

See manufacturer's detailed listing in Yellow Section

Bugge elected president of AASHO

W. A. BUGGE, director of highways of Washington, and a past president of WASHO, has been elected president of the American Association of State Highway Officials. This national recognition provides a climax in a career highlighted by public service and varied experience in the field of engineering. He has also



William A. Bugge

served as president of the Washington State Association of County Engineers and commander of the American Legion Post at Port Townsend. At the present time is secretary of the Washington State Council for Highway Research. He has been a member of the Interstate Committee on Highway Policy Problems and is chairman of the Committee on Design Policies of AASHO, which for-

mulated design policies for the 41,000 mile Interstate and defense highway system. During the past year he served as first vice-president of AASHO. He is a director of the Highway Research Board of the National Academy of Sciences.

A native of Washington, Bill Bugge served in World War I as a member of the U. S. Army, and then attended the State College of Washington. He joined the Washington State Highway Department in 1922 as an engineer upon leaving college. In 1926 he went to work as an engineer for a private contractor on a project building a pulp mill at Oregon City, Ore., and in 1928 returned to work for the highway department.

From 1929 to 1933 Bugge was construction superintendent for James H. Coyne, a general contractor, and from 1933 to 1944 he was county engineer of Jefferson County. In July 1944 he accepted a position as district engineer for the Northwest District of The Asphalt Institute and in January 1948 became managing engineer of the Pacific Coast Division with headquarters in San Francisco. He became director of highways for the State of Washington in July 1949.

When Bugge came to the state highway department, construction contract awards were running about

\$20,000,000 annually. In 1956 the awards topped \$45,000,000. Since his appointment 7½ years ago, more money has been expended for construction of Washington state highways than in the previous 40 years of state highway history.

Among the larger projects carried out has been the construction of the new route of State Highway 1 between Vancouver and Olympia. This new 103-mi. highway is 16 mi. shorter than the old one. It has been designed and built to the standards of the Interstate System.

Also constructed during Bugge's administration has been the network of state highways serving the important, mushrooming Columbia Basin Area. The four-laning of Snoqualmie Pass, the main east-west link between the two sections of Washington, was begun and being continued. The Alaskan Way Viaduct, skirting the Seattle Business District and saving the motorist time and wear and tear on his nerves, was built during the last 7 years.

Also during Bugge's tenure a merit system has been set up for Washington State Highway Commission employees, giving this segment of state employees a large measure of security in their positions. His wide experience in engineering and administration will now be available to state highway departments of the nation in his new position.

AGC appoints Bob McCann

THE APPOINTMENT of Robert E. McCann as administrative assistant has been announced by Frank W. Callahan, manager of the Northern California Chapter, Associated General Contractors. This appointment will make possible broader services



Robert E.
McCann
AGC

to contractor and associate members of the AGC and expanded activities of the chapter.

McCann was previously with Bahr & Lodoyen, Inc., Palo Alto paving and grading contractors, serving as foreman at the Page Mill quarry owned by that company. He has also been associated with the Richard Railton Company, San Francisco, in the television and public relations field.

Wyoming conference

On January 9 the Wyoming Bituminous Conference will be held at the University of Wyoming in Laramie. The conference is sponsored jointly by the University of Wyoming, the Wyoming State Highway Department, the Wyoming Association of Municipalities, and The Asphalt Institute.

North Fork Dam contract

WITH a low bid of \$8,228,000, the Guy F. Atkinson Co. of South San Francisco secured the main contract which will include the North Fork Dam, powerhouse, spillway and other features for the Portland General Electric Co. of Portland on the Clakamas River. The power company will provide all installed equipment. License was issued by the state after agreement was reached with the company relative to the building of proper facilities for passing fish. Work is scheduled for completion late in 1958. The North Fork Dam will be a concrete arch about 175 ft. high.

\$3,000,000 Ariz. base

A PROCEED ORDER to prepare master plans for the new \$3,000,000 Air National Guard Facility at Tucson has been received from the United States Army Corps of Engineers (Los Angeles District Office) by the consulting engineering firm of Johannessen and Girard of Phoenix and Tucson.

To be constructed at the Tucson Municipal Airport for the 152nd Fighter-Interceptor Squadron which was activated last May, the project will provide a complete facility for Arizona's second Air Guard Squadron.

The new base will be patterned after that of the State's original Air Guard, the 197th Fighter-Interceptor Squadron located at Phoenix Sky Harbor (Municipal) Airport which was also designed by Johannessen and Girard and constructed in 1952.

Designed to utilize the runways of Tucson Municipal Airport, the proposed installation will be located on the north side of that field.

Construction plans will include a hangar featuring major facilities for aircraft maintenance and installation as well as accommodations for associated administrative and service sections.

Money-Makers for '57

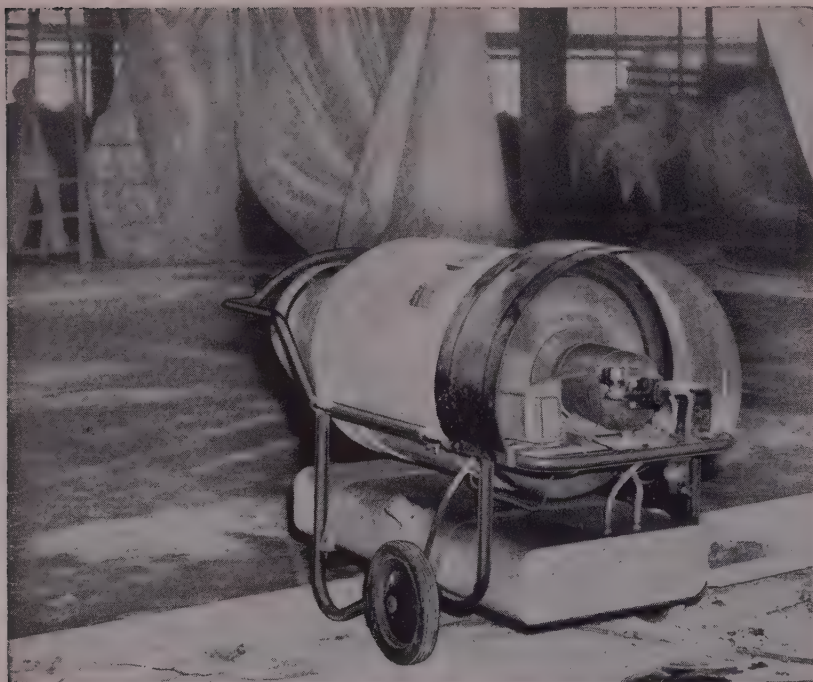


New Hydraulic fans on Diesel models
that operate only when needed — and
save up to 10 h.p. and 5% on fuel.

New full-length frame reinforcements
— for liquid loads and other severe service
— are a new option that gives these GMC's
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New axle and spring options that
permit bigger payload values.

**New optional front engine Power
Take-off** to handle transit mixers
without auxiliary power.



Here's the business end of a heater

When you buy a heater, don't stand in front of it; stand behind it. All heaters are hot in front, but their value to you depends on the rear end.

If you want *circulated warm air indoors, powerful spot heating outside, if you want to dry plaster, pour and cure concrete and keep the job rolling* in any weather, you need a Master heater.

It's a compact furnace-on-wheels, with starter, fan, thermostat, filter, pressure atomizing burner, insulated fire chamber and all. It rolls into place, starts at the flip of a switch, needs no vent and burns low cost kerosene or fuel oil.

We think it gives you more good heating for your money than any other type heater. Write for the free folder "Summer Warmth in Winter" or call your Master Distributor and see if you don't agree.

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 Riverton, Rock Springs and Sheridan, Wyoming

See manufacturer's detailed listing in Yellow Section

Oregon highway plan features 4-lane route

**State to use \$70,000,000 of
Federal aid to improve US 99**

DURING the coming six years the Oregon State Highway Department plans an extensive program which will include a four-lane route from Salem to Eugene. The Pacific Highway (U. S. 99) will be completely modernized as one segment of the Federal Aid program that will represent expenditures of about \$640,000,000 in Oregon by 1970.

Federal Aid funds to be spent on this modernizing of U. S. 99 will total more than \$70,000,000 according to W. C. Williams, State Highway Engineer, of which about \$20,000,000 will be used on the Salem to Eugene section.

During the current season the state has completed a four-lane freeway from Portland south to Salem and appropriately named it the Baldock Freeway honoring the long service of Sam Baldock to the state as chief of its highway department.

A major feature is the crossing of the Willamette River in the City of Portland. Previous plans had included the use of the well known Steel Bridge by modernizing its deck, but such a project might not qualify for Federal funds because the old structure could hardly be considered to be adequate for modern interstate route standards. The subject is receiving further study.

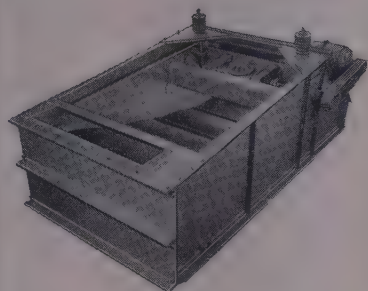
South of Eugene and extending to the California border plans have been announced for several multi-million dollar projects. South of Grants Pass the location is through heavy mountain country and one fifteen-mile section carries a cost estimate of more than \$8,000,000 in Federal funds for the four-lane highway.

Swift Dam contract let

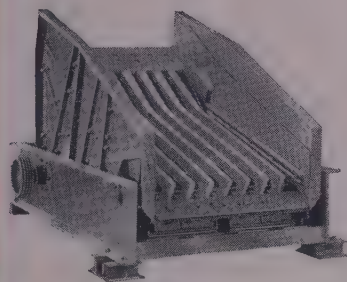
CONTRACT for construction of Swift Dam on the Lewis River by the Pacific Power & Light Co. has been awarded to J. A. Jones Construction Co. and Charles H. Tompkins Co. on a joint bid of \$18,272,000. Guy F. Atkinson Co. was previously awarded contract for the diversion tunnel at the site. Claimed to be the highest earth and rock-fill dam, the structure will be over 500 ft. from foundation to crest and will contain about 15,000,000 cu. yd. of material. Completion is scheduled for 1958.

Design for the project is being carried out by Bechtel Corp. for Pacific Power & Light Co. This project represents the third development carried out by the company on the Swift River northeast of Portland.

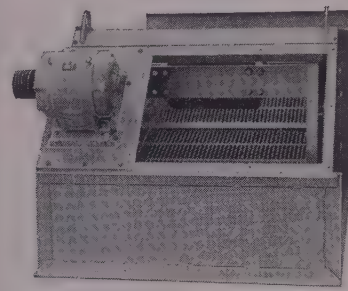
**"Symons makes a screen
for this job!"**



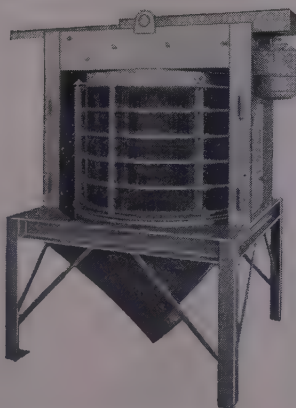
K ROD DECK. This rugged, high capacity machine is particularly well suited for scalping on openings up to $\frac{3}{4}$ ". Powerful vibrator, combined with the spring steel rod surfaces, enables this screen to handle heavy feeds of sticky materials on comparatively small openings.



BAR GRIZZLY. The combination of long, unobstructed, clear openings between bars, coupled with extremely powerful action, imparted by the vibrator, gives this Grizzly a capacity far greater than would be expected in a machine of its size.



K ROD GRIZZLY. "Beefed-up" version of K ROD DECK screen. It is particularly well adapted to scalping operations of materials up to 12 inches in size, over openings from $\frac{3}{4}$ " to 2". Very effective on sticky materials.



V SCREEN. Radically new type utilizing centrifugal force in fine screening of either wet or dry materials. It is particularly efficient in screening light weight materials. When used in dewatering, the centrifugal action gives a much dryer product.

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F SCREEN. Symons F screen is the most versatile machine in the line. It is used primarily for accurate segregation of crushed rock and gravel in rock and paving plants. Due to its high accuracy, it is often used for re-screening.



Glen Canyon diversion tunnel awarded

A \$2,452,340 Bureau of Reclamation contract for the right (west side) diversion tunnel at the Glen Canyon dam site in north-central Arizona has been authorized for award to the Mountain States Construction Company of Denver, Colorado.

The diversion tunnel, 2,768 ft. long and varying from approximately 44 to approximately 47 ft. in diameter, is one of two such tunnels which will be necessary to divert the Colorado River around the site of Glen Canyon Dam during construction of the 700-ft. high concrete structure. The dam is a major feature of the Colo-

rado River Storage Project.

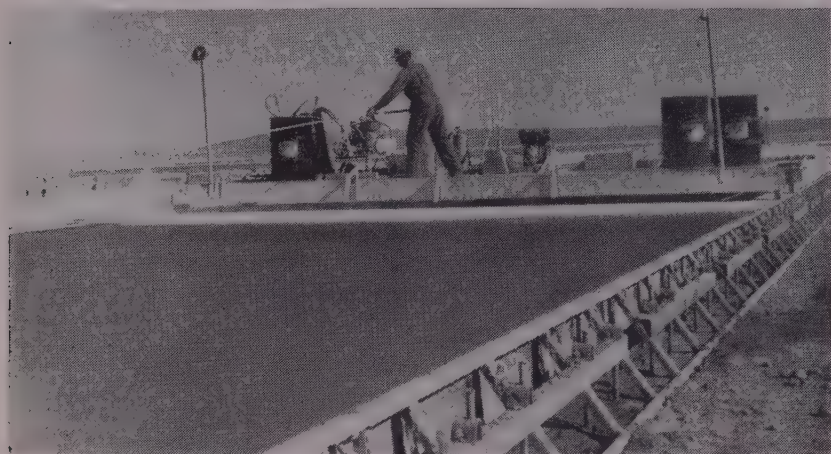
A \$1,156,244 contract was awarded in mid-September for the first 5 mi. of access road to the dam site. A contract for an additional 20 mi. of access road is scheduled for award in November. Specifications for a bridge across the canyon at the dam site are being expedited. The prime contract for the dam, which will include the left diversion tunnel, is also expected to be awarded next spring.

The tunnel contract will go to the Mountain States firm on its low bid. Second low, with a bid of \$2,961,800, was the joint venture of Morrison-



Directing the tunnel contract are (left to right): E. M. Cooper, project manager; C. E. Thompson, project engineer; and F. C. Jackson, company general superintendent. E. C. Steph is project superintendent; Clyde H. Jackson, purchasing and contracting officer.

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"Spray it and forget it"

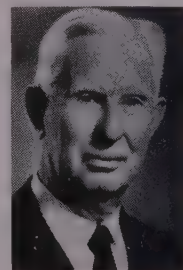
HUNT PROCESS CO., INC.

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PLeasant 3-2346

Knudsen Company, Inc., and Henry J. Kaiser, of Los Angeles, California. The \$3,334,100 offer of the joint venture of Coker Construction Company, Peter Kiewit Sons' Company and Condon-Cunningham Company, Omaha, Nebraska, was third low. The engineer's estimate for the job was \$3,845,100.

Moles honor Atkinson

GUY F. ATKINSON of San Francisco and Louis R. Perini of Framingham, Mass., were named the 1957 recipients of the awards given annually by The Moles for "outstanding achievement in construction."

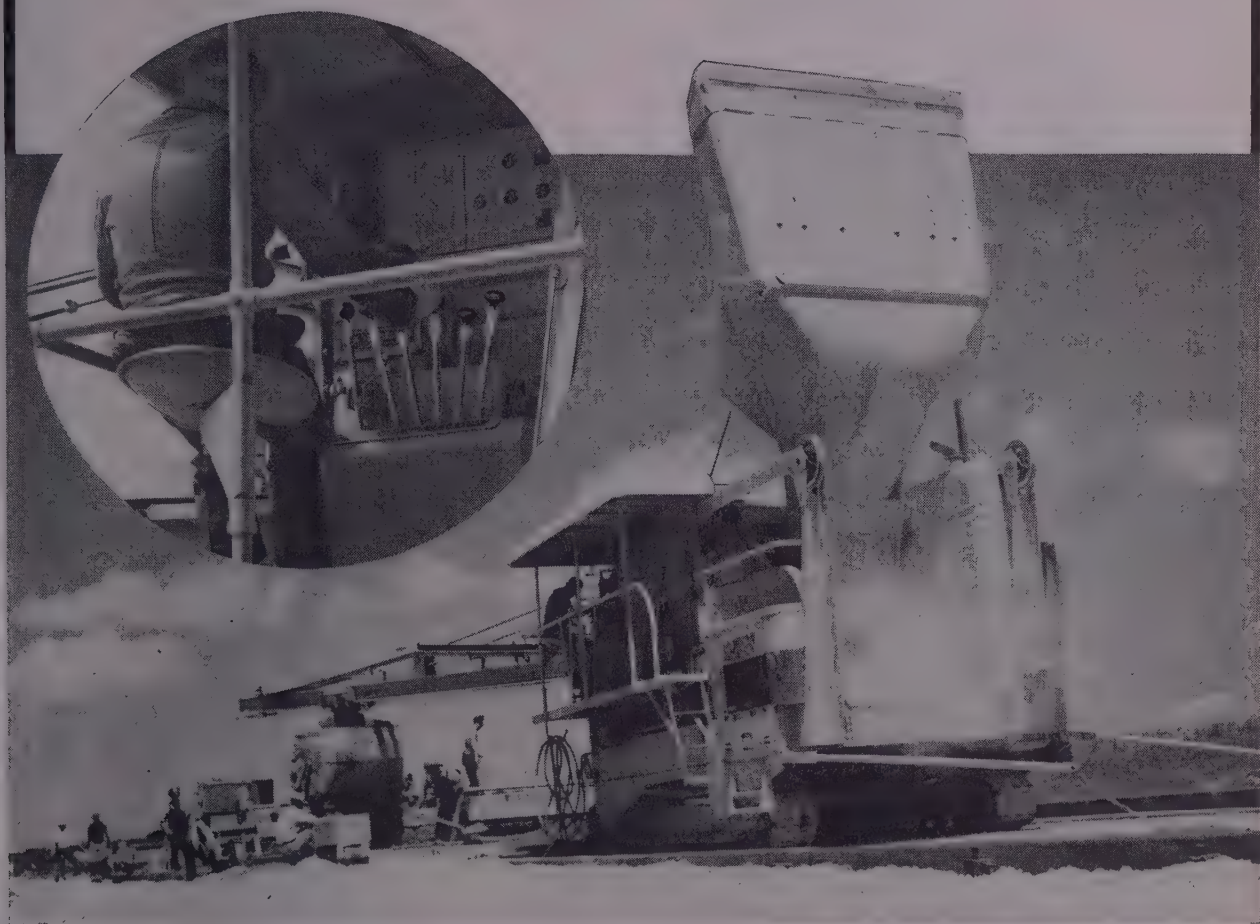


Guy F.
Atkinson

The announcement was made at a recent meeting of The Moles, a society of leading figures in the tunneling and heavy-construction industry in New York City, at the Biltmore Hotel. Formal presentation of the honors will be at the annual Moles Awards dinner at the Waldorf Astoria hotel next February 7. Atkinson and Perini make up the 17th pair of honorees in a series that started in 1941 and numbers among its winners former President Herbert Hoover, Robert Moses, Admiral Ben Moreell, the late Gen. Brehon B. Somervell, Peter Kiewit, Harvey Slocum and Thomas J. Wash.

The award is considered the highest recognition that can be accorded service to the American construc-

Set it...forget it



That's all that's necessary with Rex Hydrocycle®—the hydraulic brain that controls the entire batch cycle. You simply set the batch meter...flip the Hydrocycle levers...and the paver cycle is operated automatically. Just as easy as that. No lost motion. No lost time. You pour more yards, place more batches—every working day. It's the big reason why Rex is the fastest moving paver in the business...in sales...in operation. It's the reason why a Rex Paver makes *more* profit for you.

And Hydrocycle Control does more. It cuts operator fatigue. He stays fresh, relaxed—all day long. It gives him more time for other functions—traveling the bucket,

swinging the boom, spreading the batch and moving the paver. And because Hydrocycle eliminates drives, gear cases, rods and other wearing parts, you get longer service life...lower maintenance costs.

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For further information on how a Rex® Paver can be a real dollar saver, see your Rex Distributor.



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STRONG!

Molded—and—braided construction, with materials and workmanship meeting the very highest standards for quality and reliability.

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Extra durable smooth brown cover withstands severest abrasive wear; resists the shock of falling rock, tools and timbers; and prevents penetration of water into carcass.

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Easier to handle under crowded, tight-spot drilling conditions, and when coiling for movement between locations.

LONG LENGTHS!

Availability in long lengths . . . up to 500 feet . . . permits "Mine King" to be used with fewer intermediate connections, reducing the time required for coupling and uncoupling.

A Goodall "Standard of Quality" product, "Mine King" can be relied upon to carry a full, uninterrupted supply of power to rock drills, pavement breakers and other air tools, and to stand up longer under severest wear and abuse. It will pay you to buy and use it! Sizes $\frac{1}{2}$ ", $\frac{3}{4}$ " and 1".



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See manufacturer's detailed listing in Yellow Section

tion industry. It is made annually to one member of the society and one non-member. Perini is the member winner. Announcement of the selections was made by Harry T. Immerman, chairman of the Awards committee.

Mr. Atkinson, 81 years old, is board chairman of the Guy F. Atkinson Company, which has performed more than 100 major contracts in this country and overseas, among them Grand Coulee Dam, Treasure Island for the San Francisco World's Fair, McNary Dam and Powerhouse, and the Hanford, Wash., atomic energy plants. He is a past president of the National Associated General Contractors.

Beavers meet Jan. 17

Abel Wolman, nationally known sanitary engineer, former president of the American Water Works Association, holder of several degrees and member of many industry committees, including the Atomic Energy Commission and the Pan-American Sanitary Bureau, will be the featured speaker at the second annual awards dinner of The Beavers to be held January 17 at the Biltmore Hotel in Los Angeles. Dr. Wolman will speak on "So-called Useless Knowledge" to the nearly one thousand Beaver members who are expected to attend.

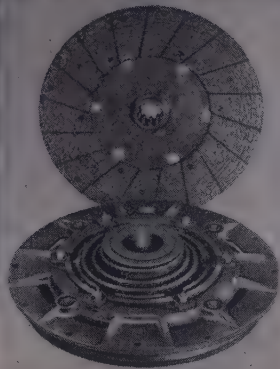


L. E. Dixon

R. F. Rasey

At the dinner special awards for outstanding contributions and meritorious service to the heavy engineered construction industry will be presented to eleven persons whose names will not be revealed until the actual time of presentation, it was announced by Chairman of the Awards Committee R. F. Rasey, vice president of Winston Brothers.

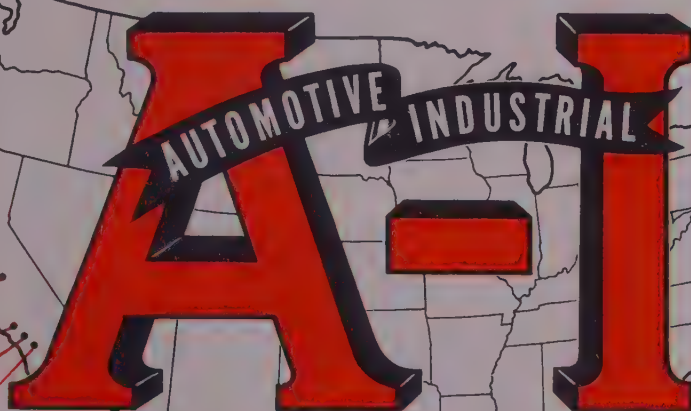
Officers and directors for 1957 will be named at the dinner meeting, according to L. E. Dixon, president of the Beaver organization.



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AGC meets in N. California

HIGHWAY AND HEAVY CONSTRUCTION contractors from 46 counties convened at the Sheraton-Palace Hotel in San Francisco for the thirty-eighth annual meeting of the Northern California Chapter, Associated General Contractors. The convention heard Governor Goodwin Knight, Dr. George Cline Smith, construction economist; and Leland W. Cutler, chairman of the San Francisco World Trade Center.

In welcoming the AGC members to the annual meeting, Chapter President Pollack pointed out that during

the year important understandings were reached with the State Division of Highways on contract and specification provisions, following a series of meetings that included Southern California AGC Chapters. Clarification was reached on the definition of "working days," provisions for the extension of contracts when bad weather or material shortages delay work, methods of payment for force account work done by contractors and a revised scale of rentals for contractors' heavy equipment.

The convention heard reports on labor negotiations from Vice President Felix Siri, on the legislative

program from Gardiner Johnson, chapter counsel, on chapter activities from Manager Frank W. Callahan, and was addressed by representatives of the construction branches of the armed forces and government agencies.

Activity at Rocky Reach

CONSTRUCTION WORK is active at the site of Rocky Reach Dam on the Columbia River near Wenatchee, Wash. Construction plant is being assembled and earth is moving prior to the building of the cofferdam to enclose a working area on the Douglas County side of the river.

According to present plans the cofferdam of cellular sheet piling will be set in place after the streambed has been excavated to bedrock. The cells will be held in position by backfilling. The number and size of boulders in the river channel resulted in this procedure rather than the usual driving of the sheet piles to rock.

Improvements for Montana airport

MISSOULA MUNICIPAL AIRPORT will have a \$250,000 improvement program next spring when the main east-west runway will be improved and extended. The program, which will be carried out with the aid of Federal funds will permit the field to be used by large commercial planes which would not land in the past because of runway conditions.

Uranium mill to be built

A CONTRACT for construction and operation of a new \$7,000,000 uranium processing mill in the Gas Hills area near Riverton, Wyoming, was signed recently between the Lucky Mc (cq) Uranium Corporation and the U. S. Atomic Energy Commission.

The new facility will be one of the largest of its type in the nation, and is expected to be in operation by the end of 1957, according to W. H. H. Cranmer, Lucky Mc president.

To be located at the Lucky Mc mine site 50 mi. southeast of Riverton in Fremont County, the new mill will be designed and built by Utah Construction Co.

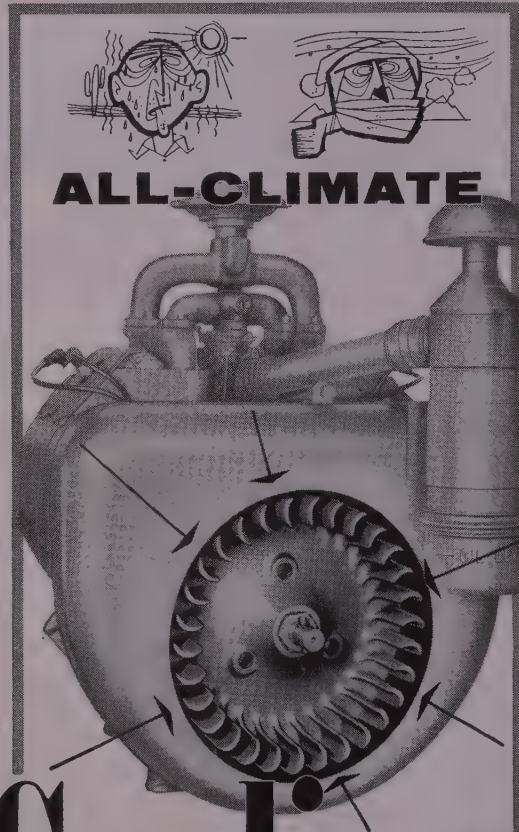
Burns Creek Dam thought feasible

REPORTED as feasible in engineering and financial considerations the \$40,000,000 Burns Creek project in Idaho, planned by the Bureau of Reclamation, takes another step forward toward final authorization. The proposed dam is located on the Snake River near Idaho Falls and would be about 30 mi. downstream from Palisades Dam now being completed. Burns Creek Dam would be an earth-fill structure 175 ft. high.

No ordinary cooling system could have done it! To help make Wisconsin Engines first choice everywhere, it took a special system with these finer points.

- A high-capacity fan, integrally cast with fly-wheel, pushes more air through engine.
- Time-engineered, time-tested cooling fin design integrally cast in cylinder blocks and heads.
- Scientifically designed and placed air shrouding, providing correct heat dissipation.

The result . . . trouble-free operation, sub-zero to 140° temperatures. Write for S198 . . . handy service map and list of approved service stations.



Air Cooling



WISCONSIN MOTOR CORPORATION

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World's Largest Builders of Heavy-Duty Air-Cooled Engines

...another reason why

WISCONSIN ENGINES rank

1st in the world, 3 to 36 hp.

Better Performance Depends on Better Features....

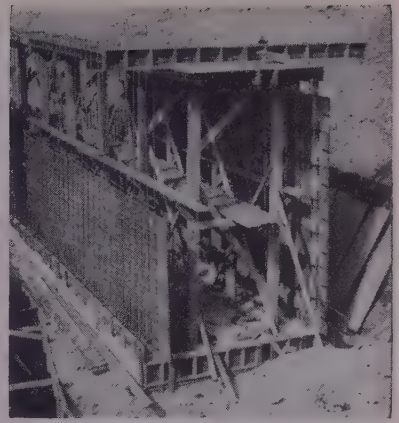
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RESIDENCE FOUNDATION—Erects fast . . . two liners only on inside; no liners on outside.



LARGE THEATRE in Alaska—Note minimum alignment and bracing.



CONCRETE CULVERT—All Ply panels used 11 times in covering the 336 ft. length.

SUPERIOR ALL-PLY FRAMELESS PANELS CUT FORMING TIME

Unique Combination Clamp and One Blow of a Hammer Does Three Separate Jobs

In all types of concrete form work, from residential to large industrial projects, contractors have reported the versatility and substantial labor saving of Superior All-Ply panels.

The panels are of 1 1/8" plywood, without a metal or wooden frame, yet providing great strength and rigidity.

A unique 3-way Combination Clamp (*the only working part*) is the secret of All-Ply's superiority . . . It does 3 separate jobs with one blow of a hammer: (1) Locks the panels; (2) Secures snap tie head, which acts as both spreader and tie; (3) Secures and

draws up liners, which generally are required on one side only.

Weighing less than 5 lbs. per sq. ft., standard ALL-PLY panels come ready for use with Superior Snap Ties.

Panels come in standard sizes of 2 x 4, 2 x 6, and 2 x 8 ft. . . Also special corners and fillers as required.

On your next forming job, discover the convenience and labor saving of All-Ply panels . . . *for complete details request a copy of our 12-page catalog.*

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FLUSH DESIGN—Simplifies stacking the forms at job site. All Ply's weigh less than 5 psf.



MOVING—Absence of wooden or metal frames permits stacking up to 7500 sq. ft. of panels on one truck.



\$3 Million ELEMENTARY SCHOOL—Plywood face and rigid locking of forms by Combination Clamp insure clean, true surfaces.

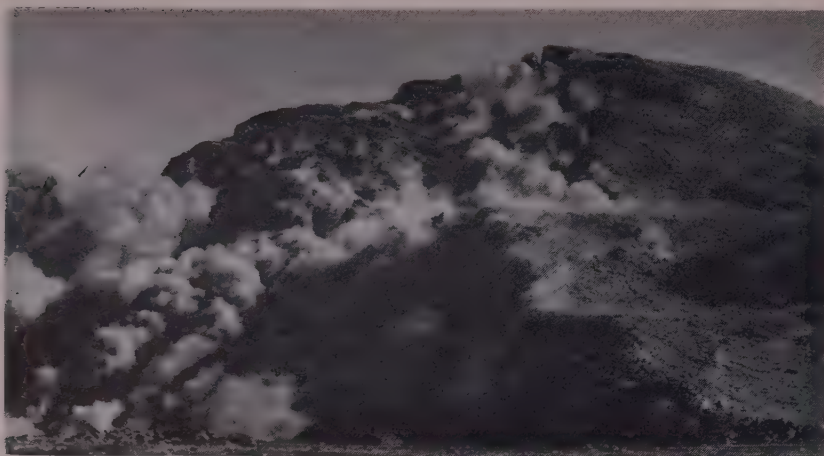


ONE BLOW of hammer locks panel, secures snap tie, holds liner.



ALL PLY PANELS come in 3 standard sizes: 2 x 4, 2 x 6 and 2 x 8 ft.

See manufacturer's detailed listing in Yellow Section



BIG BLAST AT GREAT SALT LAKE

A huge cloud of smoke and dust billowed upward following this explosion detonated by the Southern Pacific Company at the Great Salt Lake in Utah. Packed in the 300-ft. cliff were 600,000 lb. of explosives which loosened 2,000,000 tons of rock for SP's roadbed across the lake. Morrison-Knudsen Co., Inc., is the contractor. The project was described in Western Construction last month.

Reclaiming land from San Francisco Bay

THE FIRST PHASE of one of California's largest reclamation projects was completed on November 16 when the dredge, "Franciscan," deposited the last of more than 9,500,000 cu. yd. of sand along Alameda's South Shore.

Pumped up from the bottom of San Francisco Bay a mile offshore, the

tremendous new land area will soon begin to grow into a new residential community being created here by Utah Construction Co.

Begun November 7, 1955, the dredging operation, which operated around the clock for just over a year, has created approximately 400 ac. of new land along the South Shore—an

addition of more than 8% to Alameda's total land area—and added more than 1,000,000 yd. of fill and some 55 ac. to the city's Washington Park.

The \$2,500,000 dredge, which displaces 2,400 tons and is one of the world's largest, was moved to the site of the Oakland Airport expansion project after a general clean-up and overhaul.

That job, which will be performed by Utah Construction Co. under a \$3,734,500 contract with the Port of Oakland, will see the dredging of 14,000,000 cu. yd. of sand to reclaim underwater land extending a mile into the bay for construction of a new airport terminal and an 8,600-ft. runway. It is expected to be completed in about one year.

Meanwhile, on the South Shore itself the work of excavating and shaping a series of landlocked lagoons—which will be the core of the project and which will provide sites for waterfront homes—and grading and leveling the balance of the fill will be continued.

That operation should be completed in approximately four months, according to Charles T. Travers, Utah Construction Co. executive in charge of the project.

South Shore Center is next

It will be followed by initial construction next spring of the new South Shore Center, a 65-ac. regional shopping center at the foot of Park Street. With completion expected in 1958, the new center will have parking facilities for more than 4,000 automobiles and will be of modern steel, concrete and aluminum construction with a gross building area in excess of 400,000 sq. ft.

The first unit of approximately 100 homes is also expected to start next year, probably in mid-summer, Travers said, in the area directly west of the shopping center and west of Willow Street extended.

Goal is 1,000 homes

Ultimately the development will include approximately 1,000 homes, plus multiple dwelling units, neighborhood shopping areas, a professional and administrative zone, schools, churches and parks, and a new public beach on the perimeter.

Travers estimated that the total development would be complete before 1960.

In addition to the South Shore development, Utah Construction Co. also plans a second major addition to Alameda on 880 ac. of tidelands at near-by Bay Farm Island.

More than 25,000,000 cu. yd. of sand will be dredged for this development which will add another 17% to the city's land area, and which will include 3,500 to 4,000 additional homes.

The Bay Farm Island project will probably be started by 1958.

WARN LOCKOMATIC HUBS

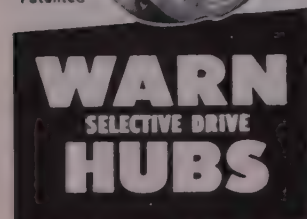


Automatically
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SAVE GEARS, TIRES, GAS!

Warn Hubs make your 4-wheel drive more useful than ever, because they make it into a "free-wheeling" 2-wheel drive, as well as a 4-wheel drive! Use it either way—automatically—as you shift! With Warn Lock-O-matics it always free-wheels in 2 w.d., always engages in 4 w.d., forward or reverse, as you shift. You automatically reduce front end wear, engine load, tire wear in 2 w.d.—there is no drag, gear whine, shimmy. Ask your 4-wheel drive dealer for a free demonstration of Warn Lock-O-matic or Locking (manual) Hubs today, or write. Models for all 4-wheel drives to 1½ tons.

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WARN MFG CO., Riverton Box 6064 — WCI, Seattle 88, Wash.

See manufacturer's detailed listing in Yellow Section

Hawaii Report

By SYD LOVE

Honolulu, Hawaii

WATERFRONT ACTIVITIES—

Visiting Congressmen left recently "favorably impressed" with federal plans for waterfront improvements in Hawaii. Biggest of these would be a \$5,000,000 second entrance channel to Honolulu Harbor. Money has not been appropriated. Robert Palmer, chief of the civil works branch of the U. S. Army Corps of Engineers in Hawaii, says the \$5,000,000 Kawaihae Harbor dredging project on the island of Hawaii will be bid soon in two or three sections. No successful bidders were obtained last time. A \$1,000,000 repair job on two breakwaters at Kahalui Harbor on the island of Maui is virtually completed. It involved casting and placing 600 concrete tetrapods weighing 33 tons each. Demolition at Pier 5 is completed at Honolulu Harbor. The work is part of the Territory's \$7,000,000 revamping program of the harbor. J. O. Yapp, manager of the Territorial Board of Harbor Commissioners, said \$1,000,000 is available, with the rest to be requested of the 1957 Territorial Legislature. The \$550,000 widening and deepening project at Nawiliwili Harbor on Kauai is completed. The Hawaiian Dredging Company did the work for the Corps of Engineers. Bids will be asked soon on a \$600,000 breakwater improvement to complete the project. Dredges took 365,000 cu. yd. of mud and coral from the channel. Yapp's interim appointment as manager of the board of harbor commissioners was to end January 2, but the man who was scheduled to replace him, Ben E. Nutter, has become chief engineer of the Port of Oakland. Nutter was Territorial Department of Public Works superintendent and Territorial highway engineer.

HIGHWAYS—Territorial officials hope the 1957 Congress will enact legislation giving federal aid to Hawaii's strategic highways. The Federal Aid Highway Act of 1956 imposed \$2,000,000 a year worth of new taxes on Hawaii's motorists, but Interstate Highway System aid will not help the Territory, which does not qualify for it. Military leaders have endorsed a request for similar aid. Construction of another link in the 4.5-mile two-lane road between Lahaina and Wailuku on Maui is in the early stages. Moses Akiona has the \$685,372 contract. It is a Territorial project. The tunnel section for Honolulu-bound traffic on the Territory's Nuuanu Pali Highway is expected to be ready for traffic in early spring. J. M. Tanaka is the builder. Another tunnel in the Koolau Moun-

tain Range on Oahu, the Wilson tunnel, is "progressing nicely." It is a City-County of Honolulu project. E. E. Black is the builder. Diggers have reached a crane which was buried August 14, 1954, in a cave-in that killed five men. Completion of the 2,700-foot bore—a \$6,500,000 project—is expected in about one year. Black has been awarded two new contracts totaling \$317,000 for Honolulu street extensions.

FIRST LIFT-SLAB—Hawaii's first lift-slab construction job is under way in Honolulu. The first roof section of a \$150,000 building is being installed by that method. Contractor Ben M. Hayashi is president of a corporation which was formed a year ago to use the method. A second Oahu lift-slab job is slated for the St. Andrew's Priory classroom building by Hayashi's firm. Richard Takeyama is contractor for the other job. Architects for the building are Lemmon, Freeth and Haines; for the school, Ernest H. Hara.

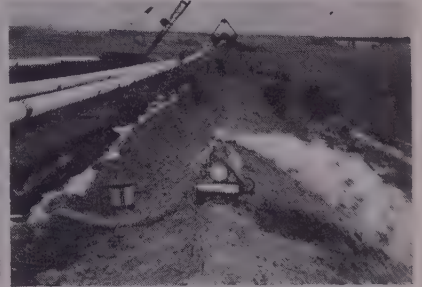
ENGINEER SHORTAGE—To help meet a shortage of engineers, the Territorial Department of Public Instruction is giving its two-year course for engineer helpers in 18 months. Upon graduation, the men go to work for the Territorial Department of Public Works.

SCHOOLS—By June of 1957, the Territory will have spent \$30,000,000 for classrooms for its 125,000 pupils. Two new \$1,000,000 high schools have just been completed. One of them—Waianae High School at Makaha on Oahu—is on the beach. The other—Admiral Radford High, will be increased by 21 classrooms in a \$361,000 project, almost before the first students start classes. Henry S. Nakata, D. P. I. building director, says federal aid has been asked for 236 classrooms in the form of new schools and additions to old ones. H. T. Hayashi built one of the new high schools and Hawaiian Dredging built the other.

World's tallest structure?

TALLEST man-made structure, and certainly the tallest structure in the West will be the 1,610-ft. TV tower now under construction in Roswell, New Mexico. Station KSWO-TV of Roswell takes considerable pride in announcing that the tower will exceed by about 90 ft. a television tower in Dallas, Texas. It will replace the present 790-ft. tower for the station.

Complete Line of Homelite Carryable Construction Equipment Now Available



Self-Priming Centrifugal Pumps . . . Carry these lightweight, dependable pumps anywhere. Non-clogging design . . . 28 foot suction lift . . . capacities up to 15,000 g.p.h. . . sizes from 1½" to 3". Diaphragm pump also available.



Chain Saws For Every Job . . . Now you can choose from a full line of lightweight, powerful Homelite chain saws. From 3½ to 7 horsepower . . . 19 to 29 pounds. Brush cutting and clearing attachments are available to handle all your cutting jobs.



Carryable Gasoline Engine-Driven Generators . . . Lightweight Homelite generators can be carried and used anywhere to provide high-cycle and 115 volt power for your electric vibrators, tools, and floodlights. Complete range of sizes up to 5,000 watts . . . all standard voltages.

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Distributor and our
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work together for you**

This metallurgist—who is responsible for the quality of our rope wire—is with your Wickwire Distributor every time he makes a call.

True, he's physically in his laboratory, supervising the thorough testing of *both ends of every coil* of wire to assure uniformity throughout the coil. But, whenever your Wickwire Distributor calls, he has the full assurance that metallurgists like this are constantly making sure that the product has the right chemical and physical properties to give long, dependable service.

It's just one more reason why your Wickwire Distributor knows he's got top-quality wire rope, slings and strand to sell ... and that these products will serve you well.

A PRODUCT OF THE COLORADO FUEL AND IRON CORPORATION

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**Save time and transport
costs on off-the-road
tire retreading**



THOMPSON *Retreading Plant* **is close-at-hand in San Francisco**

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reasonable service left in a casing, Thompson has the equipment, skill and experience to convert it into a safe, dependable retread.

All Thompson retreads are fully guaranteed and give new tire performance, wear and appearance at a fraction of replacement cost. Available in all sizes through 27.00-33, they are non-directional for use on all wheels . . . traction or free-rolling . . . and provide maximum grip with a self-cleaning design.

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Western bridges receive awards

THREE BRIDGES in the West received honorable mention in the annual competition sponsored by the American Institute of Steel Construction in its 28th Annual Aesthetic Bridge Competition. Sixteen bridges in ten states were selected by the jury from 89 entries as representing

the most beautiful bridges in the country opened to traffic in 1955.

Winners from the West: Colorado River Bridge near Moab, Utah, belonging to the State of Utah and designed by Woodruff & Sampson, consulting engineers of San Francisco. The bridge was fabricated by the American Bridge Div., United States Steel Corp. It received honorable mention in Class II. Snake River Bridge on U. S. Highway 89, near Alpine, Wyoming, belonging to the

State of Wyoming. The bridge was designed by the Bureau of Reclamation and fabricated by Maxwell Steel Co. The bridge received honorable mention in Class III. Archibald Avenue Bridge in Riverside County, Calif., belonging to the State of California and designed by the Bridge Department of the California Division of Highways. The structure was fabricated by the Union Steel Co. It received honorable mention in Class III.

Low bids and contract awards

ARIZONA

W. W. Clyde and Co. of Springville, Utah, received a \$1,011,820 contract for the remaining 20 mi. of the Glen Canyon Dam access road in north-central Arizona. **Copper State Construction Co.** of Mesa submitted a low bid of \$227,841 for 10 mi. of grading and surfacing the Flagstaff-Valle Airport Highway in Coconino County. A low bid of \$584,618 was submitted by **Wallace & Wallace** of Phoenix for 5½ mi. of grading and surfacing the Phoenix-Payson Highway in Maricopa County. **Dale F. Payne**, contractor of Phoenix, submitted a low bid of \$159,815 for grading and surfacing the Chambers-Canado Highway in Apache County. **Givens Construction Co.** of Phoenix submitted a low bid of \$86,300 for grading, draining and a new 2-span concrete slab bridge on Rt. 73, Apache County. A low bid of \$1,983,659 was submitted by **Peter Kiewit Sons' Co.** of Phoenix for grading, surfacing, lining and lighting the Mule Pass Tunnel on the Benson-Douglas Highway in Cochise County. **Royden Construction Co.** of Phoenix submitted a low bid of \$213,393 for grading and surfacing 4.4 mi. of the Yuma-Parker Highway in Yuma County. A low bid of \$99,768 was submitted by **Givens Construction Co.**, Phoenix, for construction of two concrete bridges on the Kirkland-Prescott Highway in Yavapai County.

CALIFORNIA

Piombo Construction Co., M. & K Corp. and Connolly-Pacific Co., San Carlos, submitted a low bid of \$5,103,614 for 3.8 mi. of grading, surfacing and construction of seven bridges between Bransten Road and north of Marsh Road in San Mateo County. **Gordon H. Ball** of Danville received a \$1,757,442 contract for 1.4 mi. of grading and building the highway and construction of two bridges near Victorville in San Bernardino County. A \$970,629 contract

was received by **John Delphia and Fred J. Early Jr. Co., Inc.**, of Patterson for 3.7 mi. of grading and surfacing a four-lane highway and construction of a concrete bridge in El Dorado County. **M. J. Ruddy & Son and Dan Caputo** of Modesto received a \$502,887 contract for 2.1 mi. of grading and surfacing and construction of one bridge in Stanislaus County. **Volpa Bros.** of Fresno submitted a low bid of \$465,348 for 7.7 mi. of grading and surfacing and construction of three bridges in Fresno County. **Thomas Construction Co.** of Fresno received a \$229,577 award for construction of a bridge on Rt. 10-E, Tulare County. **Peter Kiewit Sons' Co.**, Arcadia, received a \$2,168,770 contract for 7.2 mi. of grading, surfacing and construction of a pedestrian over-crossing in Ventura County. **Arthur B. Siri, Inc.**, Santa Rosa, submitted a low bid of \$283,900 for 2.4 mi. of grading and surfacing the Freshwater Road in Humboldt County. **Madonna Construction Co.**, San Luis Obispo, received a \$1,116,474 contract for 3.1 mi. of grading, surfacing and construction of three bridges south of San Miguel in San Luis Obispo County. **Granite Construction** of Watsonville received a \$197,793 contract for 5.4 mi. of grading, widening and surfacing south of Clarksburg and Sutter Slough Bridge in Yolo County.

COLORADO

Gardner Construction Co. of Glenwood Springs submitted a low bid of \$1,723,748 for grading and structures on the Valley Highway, in Denver, Denver County. **M. C. Jacobs Construction Co.**, Denver, submitted a low bid of \$216,505 for grading, surfacing and structures south of Durango near Bondad in La Plata County. **Domenic Leone Construction Co., Inc.**, of Trinidad submitted a low bid of \$121,498 for stabilization and surfacing the Green Mtn. Falls and Woodland Park in Teller and El Paso counties. A low bid of \$290,637 was submitted by **Monaghan & Smith Construction Co.**

of Derby for construction of underpass structures and approaches on the Pueblo Freeway, city and county of Pueblo. **Berglund-Cherne Co.**, Denver, submitted a low bid of \$391,000 for sewage treatment plant improvements, city and county of Denver. A low bid of \$228,129 was submitted by **San Ore Construction Co.**, Denver, for grading, surfacing and structures in the city limits of Limon, Lincoln County. **Pioneer Construction Co.** of Pueblo submitted a low bid of \$658,057 for grading, structures and surfacing 5.3 mi. in Washington and Yuma counties. **Northwestern Engineering Co.** of Denver submitted a low bid of \$434,900 for grading, surfacing and structures between Durango and Bayfield in La Plata County. A low bid of \$830,765 was submitted by **L. H. Kilgroe Construction Co.**, Denver, for 1 mi. of grading, surfacing and structures in the city and county of Denver. **Nowers Construction Co.** of Pueblo submitted a low bid of \$266,479 for 3.7 mi. of grading and structures between Nathrop and Kings Corner in Chaffee County. **Michigan Construction Co.** of Detroit, Mich., submitted a low bid of \$3,449,215 for construction of Vasquez Tunnel and lining Jones Pass Tunnel, city and county of Denver.

IDAHO

Paul Hardeman, Inc., Los Angeles, Calif., received a \$1,580,000 contract to construct the SPERT-111 (Special Power Excursion Reactor Test) facility at the U. S. Atomic Energy Commission's National Reactor Testing Station. **Arrington Construction Co.**, Idaho Falls, submitted a low bid of \$1,858,000 on a contract for construction of an operating prototype of a ship nuclear propulsion plant at the Atomic Energy Commission's Reactor Testing Station near Arco. **Morrison-Knudsen Co.**, Boise, received an \$81,087 award for construction of the U. S. Highway No. 30, 10th Street in Caldwell, Canyon County. **Stuart Bros.** of Twin Falls received an \$85,772 contract for grading, surfacing and construction of a 120-ft. bridge near Murphy in Owyhee County.



THE BUFFALO-SPRINGFIELD K-45 KOMPACTOR

How to select compaction equipment

The logical question to ask yourself when you are ready to buy new compaction equipment is: "Exactly what do I need the equipment for and how will I use it?"

BASE FILL COMPACTION—This type of compaction demands equipment that will handle a wide variety of materials, give you the highest degree of compaction with the fewest passes. Buffalo-Springfield's revolutionary K-45 Kompactor is proving a real money-making answer for this type of work. It is self-propelled, relies on the "Interrupted Pressure Principle." All compaction effort is directed downward. Contractors testify they are meeting density requirements in one-fourth the time normally required with other compaction equipment.

FINE GRADE FINISHING—Buffalo-Springfield offers six 3-wheel rollers, ranging in capacity from 5 to 15 tons, to handle the large variety of materials found in fills, subgrades and unfinished bituminous pavements. The variable-weight 3-wheel roller is ruggedly built for years and years of hard, maintenance-free work.

Buffalo-Springfield's thoroughly-proved 3-axle tandem "walking beam" roller provides up to 60% greater tonnage compacted per day in superhighway construction, airport and military establishment jobs where specifications are extra strict.

ASPHALT FINISHING—Two-axle Tandem Rollers are designed especially for all surface finishing jobs. Ranging from 5 to 16 tons, Buffalo-Springfield Tandems are used for



3-WHEEL ROLLERS

heavy-duty highway and public works projects, and all types of finishing, maintenance and repair work. A wide selection of models for the biggest to the smallest jobs are designed for long-life and profitable operation.



TWO AXLE TANDEM

SHORT ROLLING JOBS—Buffalo-Springfield's 3-5 ton portable roller is widely used for rolling driveways, sidewalks, parking and playground areas, and for patching and light fin-



3-5 TON PORTABLE TANDEM

ishing jobs. It is highly maneuverable and portable from job-to-job. Write today for full information on the type of equipment you need—or see your nearest distributor for an on-the-job demonstration.



THE BUFFALO-SPRINGFIELD KX-3 AXLE TANDEM



BUFFALO-SPRINGFIELD
Roller Division-Koehring Company
SPRINGFIELD, OHIO

See manufacturer's detailed listing in Yellow Section

MONTANA

Hilde Construction Co., Great Falls, received a \$403,161 contract for 11.5 mi. of grading and surfacing the Hardin-Custer Highway in Big Horn and Yellowstone counties. A \$754,141 contract was received by Summit Construction Co. of Rapid City, South Dakota, for 17 mi. of grading, surfacing and widening one bridge on the Olive-Miles City Highway in Custer County and a \$116,240 award for 14.9 mi. of reshaping, and gravel surfacing the Van Norman-Glasgow Highway in McCone County. Albert Lalonde Co. of Sidney received a \$775,431 contract for 9.6 mi. of grading and surfacing the Crow Agency and Custer Battlefield Monument section in Big Horn County. Holm Construction Co., Glendive, received a \$275,872 contract for construction of one bridge on the Gardiner-Livingston Highway in Park County. N. A. Nelson Construction of Sheridan, Wyo., received a \$718,051 award for construction of one bridge on the Grass Range-Malta Highway in Fergus and Phillips counties. Roth Construction Co. of Rapid City, South Dakota, received a \$299,175 contract for 9.8 mi. of grading and surfacing the Brandenburg - Garland - Miles City Highway in Custer and Rosebud counties. C. A. Reeves Construction

Co. of Sheridan, Wyo., submitted a low bid of \$99,538 for grading, draining and gravel surfacing the Marsh-Glendive Highway in Dawson County.

NEW MEXICO

Skousen-Hise Contracting Co. of Albuquerque received two contracts for road work in McKinley and San Juan counties: \$1,345,664 for 5.3 mi. of grading and surfacing U. S. 66, Top of the World-West road in McKinley County and \$926,223 for grading and surfacing 7.1 mi. of the Farmington-Aztec Road in San Juan County. A \$329,737 contract was received by Floyd Haake of Santa Fe for 5.5 mi. of grading and surfacing Fort Sumner-West Road, De Baca County. James P. Johnson of Santa Fe received a \$260,549 contract for 4.8 mi. of grading and surfacing the Talpa-South Road in Taos County. A \$1,279,202 contract was received by Henry Thygesen & Co. of Albuquerque for 5.1 mi. of grading and surfacing U. S. 66 in McKinley County. Mesilla Valley Construction Co. of Las Cruces received a \$162,196 contract for 10 mi. of grading and surfacing the Hageman-East Road in Chaves County. Badger Lynch of Albuquerque submitted two low bids for earthwork, clearing and structures, Socorro Units 1 and 2, Middle

Rio Grande Project: \$146,728 for schedule 1A and \$93,156 for schedule 2A. J. F. Schroeders' Sons of Ordway, Colo., submitted a low bid of \$116,265 for schedule 1B and \$140,553 for schedule 2B, earthwork, clearing and structures, Socorro Units 1 and 2, Middle Rio Grande Project. Longebaugh & Coe, Inc., of Albuquerque, received a \$146,807 contract for 1.4 mi. of grading, surfacing and structures on the San Jon-Wheatland Road in Quay County. Leslie Wheeler Co. of Albuquerque, received a \$324,565 contract for 5.1 mi. of grading and surfacing in Quay County. G. I. Martin, Albuquerque, received an \$836,755 award for 9.7 mi. of grading and surfacing the Luna Junction-South Road in Catron County.

OREGON

Warren Northwest Inc. of Portland submitted two low bids for grading and paving in Deschutes and Douglas counties: \$307,977 for grading and paving the Central Oregon Highway in Deschutes County and \$198,211 for paving the Pacific Highway in Douglas County. C. R. O'Neil of Creswell submitted a low bid of \$697,708 for grading and paving the Myrtle Cr.-Canyonville section of the Pacific Highway in Douglas County. Ausland Construction Co.

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Detonating Fuse

Plain • Reinforced • Wire countered • Plastic

SAFE

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

EFFICIENT

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

ECONOMICAL

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

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LIVERMORE, CALIFORNIA

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GET FAST, LOW-COST SAWING WITH
THIS SUPERIOR LINE OF CONCRETE
SAWING EQUIPMENT.

Model R-85 Lightweight Concut

Designed for economical sawing of concrete or asphalt at depths up to 3". Ideal for industrial plant maintenance work, and other types of interrupted sawing.

Model S-200 Standard Concut

Available with or without self-propelled unit. Provides maximum efficiency in sawing concrete and asphalt up to 5" in depth with a 14" blade. Units are equipped with hydraulic raising and lowering devices for smoother operation.

Model SP-300 Self-Propelled Concut

Designed for up-cut action which increases blade life and gives smooth operation. Exclusive CONCU TORQUE converter drive means faster cutting with less blade wear.

The Jointmaster Sawing Machine

Available in 12' and 25' models. The ideal machine for joint sawing on highway and large air base sawing jobs. Equipped with new improved hydraulic drive.

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Designed for planing concrete on asphalt surfaces to comply with the close tolerances required for today's highways and airports. Machines quickly and efficiently eliminate bumps and rough places that often appear in a concrete slab.

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in the field of
CONCRETE SAWING

Write for Bulletin No. 18

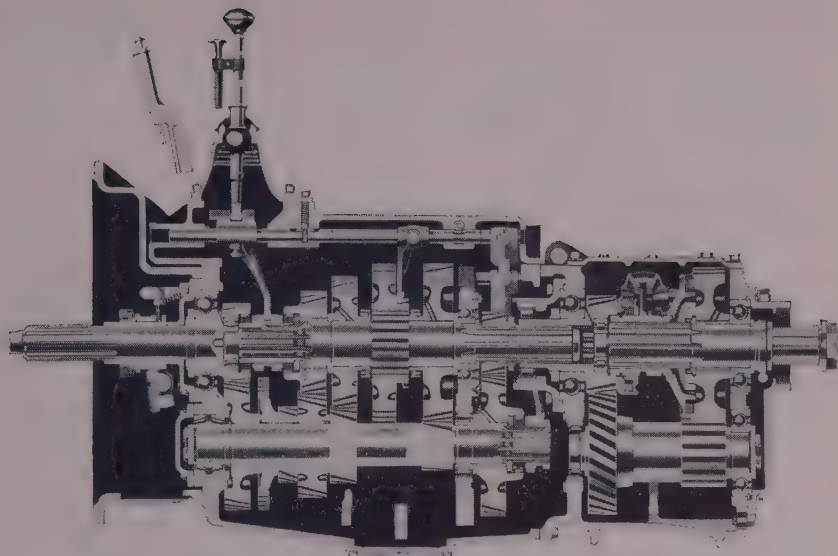
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See manufacturer's detailed listing in Yellow Section

WESTERN CONSTRUCTION—January 1957

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R-1150



ROADRANGER® TRANSMISSIONS

for earthmoving and construction equipment

The Fuller 9-speed semi-automatic R-1150 ROADRANGER Transmission is designed specifically for tractors and trucks equipped with engines of up to 1150 cu. in. piston displacement, and developing up to 800 foot pounds of torque.

- No gear splitting—9 selective gear ratios are evenly and progressively spaced
- Easier, quicker shifts—38% steps between ratios
- One shift lever controls all 9 forward and 1 reverse speeds
- Engines work in peak hp range with greater fuel economy
- Less driver fatigue—1/3 less shifting
- Range shifts pre-selected—automatic and synchronized

See this cut-away R-1150 ROADRANGER at the ARBA Road Show in Chicago, at the Fuller Booth No. 221 (Section AA-Second Floor, Main Hall). Also on display at the booth—the 10-speed R-96 ROADRANGER, the 7-speed R-35 ROADRANGER, and the 10-speed 10-F-1220 heavy-duty transmission.



really
where horsepower ¹ goes to work



FULLER MANUFACTURING COMPANY
Transmission Division, Kalamazoo, Michigan

See manufacturer's detailed listing in Yellow Section

of Grants Pass submitted a low bid of \$93,728 for bridge construction near Myrtle Creek in Douglas County. **Rogers Construction, Inc.**, of Portland received a \$1,050,840 award for grading the Emigrant Hill area on the Old Oregon Trail in Umatilla County. A \$102,689 contract was received by **White Bros. Co. and White Bros., Inc.**, of Walla Walla, Wash., for bridge construction on the Hinkle-Bucks Corner section, Umatilla County. **Workman & Wilson** of Canby received a \$139,862 contract for structures, grading and paving the Pacific West Highway in Yamhill County. **Lee Hoffman** of Beaverton submitted a low bid of \$719,642 for construction of a bridge on the Missouri Bottom-Canyonville section of the Pacific Highway in Douglas County. A low bid of \$273,523 was submitted by **Durbin Bros.** of Eugene for grading and paving the East and West Forks, Illinois River Bridge on the Redwood Highway, Josephine County. **Vernie Jarl**, Gresham, submitted a low bid of \$595,835 for grading and paving the Pacific East Highway in Marion County. A low bid of \$543,932 was submitted by **C. J. Montag & Sons** of Portland for structure, grading and surfacing the 37th Ave.-42nd Ave. section of the T. H. Banfield Expressway in Multnomah County. **Donald M. Drake Co.**, Portland, received a \$455,002 award for structure, grading and surfacing on the T. H. Banfield Expressway in Portland, Multnomah County.

UTAH

Davis & Butler of Salt Lake City submitted a low bid of \$445,093 for schedules 1 and 2 for Wanship and Gateway power plants and switchyards, Webster Basin Project. **Wangsgaard Construction Co.**, Logan, submitted a low bid of \$143,912 for earthwork, structures, bridge and surfacing access road to Flaming Gorge. **Thayne Construction Co.**, Salt Lake City, submitted a low bid of \$427,387 for drainage pipe line and grading for taxiway and apron, Salt Lake Airport.

WASHINGTON

Woodworth & Co., Inc., of Tacoma received a \$1,639,758 contract for 3.5 mi. of grading, surfacing and structures from Nisqually to Fort Lewis in Pierce County. A \$437,864 contract was received by **Henly Construction Co., Inc.**, Yakima, for earthwork and structures, Block 79, West Canal Laterals, Columbus Basin Project. **Paul Jarvis Inc.** of Seattle received a \$211,861 contract for construction of undercrossing at Crocker, Pierce County. **Henry Hagman** of Spokane was awarded a \$763,387 contract for construction of

the North approach of the Maple St. Bridge, Spokane County. **Chas. A. Power**, Spokane, received a \$300,729 contract for construction of the South approach of the Maple St. Bridge, Spokane County. **John P. Hopkins Co., Inc.**, of Mercer Island received an award of \$357,024 for 1.8 mi. of grading and surfacing from Mud Bay to Kaiser Road in Thurston County. A \$334,247 contract was received by **Pieler Construction Co.**, Port Angeles, for 4.4 mi. of grading and surfacing Ruby Beach South in Jefferson County. **Murphy Bros., Inc.**, of Spokane received two contracts for grading and surfacing in Spokane and Klickitat counties: \$334,097 for 6 mi. of grading and surfacing Towal West in Klickitat County and \$243,671 for 5.1 mi. of grading and surfacing Dean to Chattaroy in Spokane County. **Cawdrey & Vemo** of Seattle are low bidders with \$1,706,533 for Phase 11 preflight facilities at Renton Field for Boeing Airplane Co. A \$324,943 contract was received by **Marshall Construction** of Hermiston, Ore., for construction of the Yakima River Bridge in Yakima County. **Syblon-Reid Construction Co.** (a co-partnership) of Warden submitted a low bid of \$235,146 for White Bluffs Pumping Plant No. 1, laterals and discharge lines, Block 20, Columbia Basin Project.

WYOMING

Eagle Construction Corp. of Loveland, Colo., received a \$1,120,447 contract for the Glendo Dam and Powerplant, on the North Platte River southeast of Glendo.

ALASKA

Doughty Construction Co., Spentard, submitted a low bid of \$158,118 for construction of an instrument landing approach system at Elmendorf Air Force Base and Point McKenzie. **Nordin Construction Co.** of Fairbanks received a \$136,985 contract for construction of automatic installations for guiding planes at various locations. The Government bid was \$112,453. Three contractors submitted low bids on schedules 1 through 7 for Chester Creek and Airport Heights sewers in Anchorage. **Pacific-Alaska Construction Co.** of Tacoma, Wash., submitted a low bid of \$370,427 for schedule 1 and 2, Chester Creek and Airport Heights sewers in Anchorage. **Patti-MacDonald Construction Co.**, Anchorage, was low bidder on schedule 3, 5 and 6 for sewers. **Stock & Grove, Inc.**, of Anchorage was low with \$230,275 for schedules 4 and 7. **S. S. Mullen, Inc.**, of Seattle, Wash., submitted a low bid of \$577,590 for stabilization of runway access taxiway shoulders at Eielson Air Force Base.

THE NEW LORAIN HEADQUARTERS

**ANDREWS
EQUIPMENT SERVICE**
OF WASHINGTON, INC.
Spokane, Wash.

**ATLAS
EQUIPMENT COMPANY**
Salt Lake City, Utah

CENTRAL MACHINERY CO.
Great Falls, Havre and Lewistown, Mont.

COAST EQUIPMENT CO.
San Francisco 3, California

A. H. COX & COMPANY
Seattle 4 and Tacoma, Wash.

GENERAL EQUIPMENT CO.
Reno, Nevada

**INTERSTATE
TRACTOR & EQUIPMENT CO.**
Portland and Eugene, Ore.

MCCOY COMPANY
Denver 17, Durango, Grand Junction,
Pueblo and Sterling, Colo.

**MOUNTAIN
TRACTOR CO.**
Missoula and Kalispell, Mont.

**NASH-DAVIS
MACHINERY CO.**
Billings and Bozeman, Mont., Greybull, Wyo.

**NEW MEXICO
EQUIPMENT CO.**
Albuquerque, New Mexico

**LEE REDMAN
EQUIPMENT CO.**
Phoenix, Arizona

**SANTA FE
EQUIPMENT CO., INC.**
Los Angeles and San Bernardino, Calif.

**SOUTHERN IDAHO
EQUIPMENT CO.**
Idaho Falls, Boise and Twin Falls, Idaho

**TRACTOR
& EQUIPMENT CO.**
Sidney, Miles City and Glasgow, Mont.

**WORTHAM
MACHINERY COMPANY**
Cheyenne, Casper, Sheridan and Rock Springs, Wyo.

**YUKON
EQUIPMENT INC. (for Alaska)**
Seattle, Wash., Fairbanks and Anchorage, Alaska

WC-1

☆ SALES ☆ PARTS
☆ SERVICE

ALASKA Newsletter

By CLIFFORD S. CERNICK, Anchorage

CONSTRUCTION OUTLOOK—

Alaska is entering a period of annual decline in construction activity and employment. December, January, February and March are low months on Alaska's construction totem pole. Freezing cold, fierce winds and uncertain transportation schedules combine to make this period of the year unproductive so far as construction schedules are concerned. In Alaska, winter time is the time for planning, for design, for laying preparations and plans. Winter is king in Alaska right now, imposing a frigid reign in which few wheels turn and progress reports make dismal reading.

EMPLOYMENT—Alaskan employment tends to descend right along with the mercury in thermometers. Latest figures given to **Western Construction** by the Territorial Employment Service show that 2,298 persons are seeking work in the Anchorage area, 1,294 in Fairbanks, 404 in Juneau and 644 in Ketchikan. More than 4,000 persons thus are jobless in the dead of Alaska's winter.

STILL HIRING—Despite unemployment in construction lines of work, government hiring remained fairly high, according to the Employment Service. Of the 2,298 persons actively seeking work in Anchorage, more than 70% are in the construction category, with general office clerks and food service workers comprising most of the balance. The only "help wanted" signs out are in the highly technical and skilled classifications, particularly in the field of electronics where the demand and future potential for electronics technicians and engineers is expected to be in short supply for some time to come. Demand in Anchorage continues strong for well-qualified stenographers, typists, medical technicians and registered nurses.

DEWLINE ADVENTURES—

Workers on the Arctic DEW Line chain of radar sites and the White Alice communication network in remote portions of the Territory are still reporting encounters with wild animals. Typical of these incidents is that reported by an employee of one of the Western Electric subcontractors at a remote outpost. The worker was returning from a field trip on foot when what he took to be a "mad wolf" began to trail him. The worker was unarmed. The wolf followed

from a distance moving closely apparently set to attack. The man was finally able to evade the ferocious animal and get back to camp. The official report on the matter stated: "Due to fright and shock, he was unable to speak for several hours afterwards."

NARROW ESCAPE—Several construction officials had a narrow escape recently during a routine flight to sites in Alaska's interior. On a flight to the construction site, one engine on the two-engine plane "conked out" just as the plane became airborne and was over the end of the runway at an altitude of about 100 ft. The pilot tried to get back in to the field but fog rolled in and prevented a landing. The plane began to ice up dangerously. The pilot was finally able to bring the plane in to a safe landing at a small CAA airport. Aboard were Orville Johnson, M-K equipment superintendent, construction contract; Kip Ramsdell, equipment superintendent, M-K District; E. "Dutch" Schultz, M-K M&O equipment superintendent; Bill O'Neill, M-K M&O assistant project manager; W. Reed, equipment inspector for Western Electric and Bernie Corcoran, FEC logistics and support coordinator.

NEW WHITE ALICE LINK—The first section of the "White Alice" communications network in Alaska which provides communications for the continent's defense against attack from the north was placed in operation early in December. The first completed section of the system connects Anchorage and a military installation 176-mi. away on Middleton Island in the Gulf of Alaska. This segment also makes available commercial telephone and telegraph circuits for Cordova. When completed in 1958, there will be a total of 33 transmitting and receiving sites covering 3,100 route miles. Total cost will be over \$100,000,000.

UNPREDICTABLE WEATHER

—Except for the generalization that the weather in Alaska gets perceptibly colder the farther north you go the construction man in Alaska usually is in for several surprises when it comes to weather. In the Anchorage area, for example, a typical week's weather defies classification. On Nov. 17, for example, a 21-below-zero temperature was recorded. Only two days later, the

temperature shot up to above freezing, then it plummeted again. There was snow, ice, fog, bright sunlight, combined rain and snow and a good-sized blizzard all in the space of seven days. You can count on one thing about the Territory's weather —it's usually surprising.

CONSTRUCTION TRENDS—An economic report issued by the Anchorage planning commission has some significant facts of interest to contractors. The report states that local contractors (meaning contractors having headquarters in the Anchorage area) have "claimed a consistently larger share of construction expenditures in the area." The report also comments that "intensity of construction activity is decreasing. The most pressing needs have been largely met and many of the less urgent construction projects have also been accomplished." According to the report, large annual construction programs will probably continue to be announced by the military, but will probably be in outlying areas rather than the immediate Greater Anchorage area. "In general," says the report, "good business conditions expected over the next few years should also result in fairly continuous construction of commercial building."

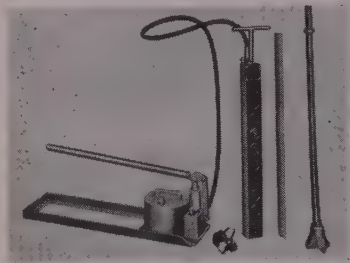
COLORFUL HISTORY—Interesting facts released by Western Electric in connection with opening of the first segment of the "White Alice" network include the information that the network is the largest ever built using the new "over-the-horizon" type of message transmission. During peak of construction, 3,500 workers were engaged in the construction effort. Contractors to Western Electric and the Army's Corps of Engineers built the White Alice facilities. The entire construction force was recruited through Alaskan union hiring halls. Western Electric's engineering, procurement and installation force came from all parts of the Bell Telephone System within the U. S.

AIRPLANE WORKHORSE—The airplane is rapidly becoming the workhorse of Alaska in the job of supplying remote construction sites. Contractors throughout Alaska rely on planes for flying in supplies, equipment and personnel. Typical of the heavy volume of construction cargo flown by airlines is the report by one major Alaskan airline that it flew 1,000,000 lb. of construction material to one White Alice site. Two million pounds more were slated to be flown from Nome within the next few weeks. One day's record was 147,000 lb. shuttled through the sky in 11 flights. Nome airport, a former Air Force base, has some 600 aircraft landings and takeoffs monthly.

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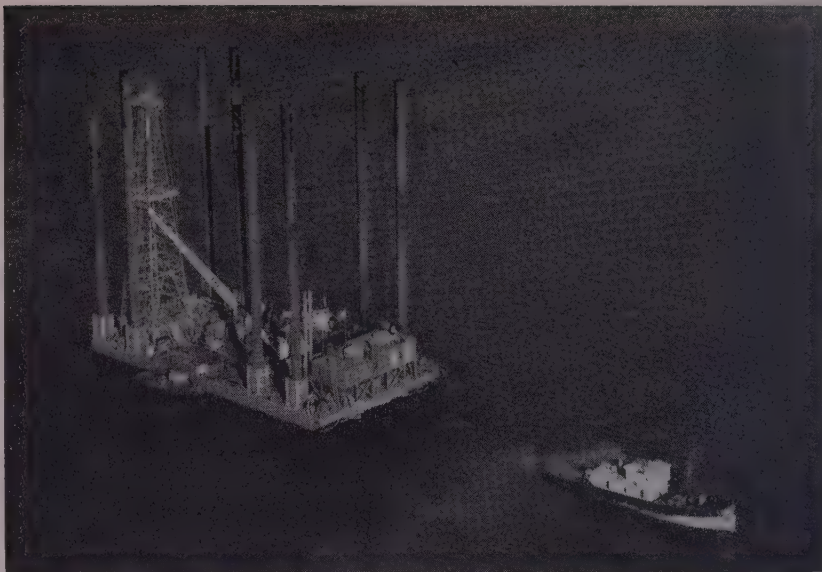


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DO YOU HAVE ANY IDEA WHAT THIS IS?

Think back to pages 50 and 52 of the November issue of *Western Construction* and you'll have it. It's the movable platform we described during its erection in Long Beach Harbor. In the picture above it's being towed to its first location to start exploratory oil well drilling off the coast of Southern California. The 195-ft. long caissons are lowered by air jacks to the ocean floor, lifting the steel hull a few feet above the water surface. This results in a solid platform for deep water drilling. The structure is owned and operated by Offshore Constructors, a joint venture composed of Raymond Concrete Pile Co., DeLong Corp., Healy-Tibbitts Construction Co., and Bechtel Corp.

Northwest C of E Program

EXPENDITURES for military construction projects in the Pacific Northwest and Alaska on which bids will be called between now and the end of the 1957 fiscal year, next June 30, will total an estimated \$111,000,000, according to Brigadier General L. H. Foote, North Pacific Division Engineer of the Army Corps of Engineers.

Army projects for which bids will be invited total approximately \$34,000,000. They include chapels, warehouses, family living quarters, oil storage facilities, schools and club buildings, shops, roads and other facilities.

Air Force projects for which bids will be received total about \$77,000,000 and include family housing, water supply facilities, ammunition storage facilities, runways, recreation buildings, steam plants, airmen's dormitories, aircraft control and warning stations, swimming pools, officers quarters, dental clinics, hospitals and other construction items.

Construction bids will be received by the various District Engineers. The Alaska District will take bids on Army projects totaling about \$29,000,000, and Air Force projects aggregating \$32,000,000. The Seattle District will receive figures on Army work estimated to cost about \$3,000,000 and Air Force work totaling about \$26,000,000. The Walla Walla District will take bids on Army work totaling approximately \$2,000,000 and Air Force projects totaling about \$19,000,000.

CALENDAR

Jan. 9—Wyoming Bituminous Conference, University of Wyoming, Laramie, Wyo.

Jan. 17—The Beavers, second annual award dinner, Biltmore Hotel, Los Angeles, Calif.

Jan. 23-25—Institute of Transportation and Traffic Engineering, annual California Street and Highway Conference, University of California, Berkeley, Calif.

Jan. 27-30—Associated Equipment Distributors, annual meeting, Conrad Hilton Hotel, Chicago, Ill.

Jan. 28-Feb. 2—American Road Builders' Association, road show and convention, International Amphitheatre, Chicago, Ill.

Jan. 31-Feb. 2—National Bituminous Concrete Association meeting, Conrad Hilton Hotel, Chicago, Ill.

Feb. 15-16—National Society of Professional Engineers, spring meeting, Hotel Francis Marion, Charleston, S. C.

Feb. 18-22—American Society of Civil Engineers, annual meeting, Jackson, Mich.

Feb. 25-27—Association of Asphalt Paving Technologists, annual meeting and technical session, Atlanta Biltmore Hotel, Atlanta, Ga.

Feb. 25-28—American Concrete Institute, annual convention, Statler-Hilton Hotel, Dallas, Texas.

Feb. 28-Mar. 1—Annual Highway Engineering Conference, University of Colorado, Boulder, Colo.

**"Our Gar Wood '75' gives us
the production we need
with far less maintenance!"**

S. H. SOLOMON, JR.

Superintendent,

Richards Constructors, Inc.

● On St. Petersburg, Florida's \$14,000,000 Sanitary Sewer Program, schedules for excavating and backfilling to depths up to 30 feet demanded a rugged excavator. That's why Richards Constructors, Inc. chose the Gar Wood 75B. Superintendent S. H. Solomon, Jr. reports, "The unit has easily kept pace with our tight construction schedules. We're really pleased with the amount of work it turns out!"

Independent travel is one reason given by Mr. Solomon for the 75B's high productivity. "We particularly like the way it swings as it walks." Because the operator can hoist or swing while moving, output is increased. "We also appreciate the ease of maintenance of the 75B," says Solomon. Easy accessibility of the compact machinery deck makes occasional servicing quicker and less expensive.

If your work calls for dependable production with a minimum of maintenance, check Gar Wood's 75B — built by specialists in $\frac{3}{4}$ yard machines. Call your Gar Wood dealer, or write direct to: Customer Service Dept., Gar Wood Industries, Inc., Wayne, Michigan.



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EQUIPMENT SALES COMPANY Phoenix, Arizona
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BURAN EQUIPMENT CO. Oakland, California
SHASTA TRUCK & EQUIPMENT SALES. Redding, California
PAPE BROS. Eugene, Oregon
WESTERN MACHINERY COMPANY. Salt Lake City, Utah

AIR-MAC, INC. Seattle, Washington
WESTERN MACHINERY CO. Denver and Grand Junction, Colorado
SEITZ MACHINERY CO., INC. Billings, Montana
RICHLAND MACHINERY. Sidney, Montana
STUDER TRACTOR & EQUIPMENT CO. Casper, Wyoming
SMITH MACHINERY CO., INC. Roswell, New Mexico

See manufacturer's detailed listing in Yellow Section

ENGINEERS on the move



EARL AND WRIGHT, San Francisco engineering firm, has been presented a sustaining membership in the Society of American Military Engineers. **J. G. Wright** (center) was on hand to receive the honorary membership certificate for the firm of which he is a partner. The presentation was made by **Brig. Gen. D. F. Johns**, USA ret. (left), Ex-Officio Director, and **Brig. Gen. William F. Cassidy** (right), president of the San Francisco Post, and South Pacific Division Engineer.

Lt. Gen. S. D. Sturgis, Jr., former Chief of Army Engineers, who retired last September after 38 years service with the Corps, has been appointed by the International Joint Commission as chairman of the United States Section, International Passamaquoddy Engineering Board, U. S. and Canada.

* * *

Gilbert N. Mathison was named Idaho Department of Highways' acting district engineer for the third district at Boise, following the death of **Charles L. Varian** in October.

* * *

LeRoy Crandall & Associates, consulting foundation engineers, on Oct. 1 moved into new and enlarged quarters at 1619 Beverly Blvd., Los Angeles 26, Calif.

* * *

After 22 years service with the Corps of Engineers, the last 16 of which were with the South Pacific Division in San Francisco, **Oswald Speir**, principal civil engineer, retired from Federal service. He is now with the California State Department of Water Resources in Sacramento as supervising hydraulic engineer in the Division of Water Resources, Planning, Project Development Branch.

* * *

Raymond E. Layton, civil engineer, recently moved into a new building owned and designed by the firm. Lay-

ton also supervised the construction of this modern office building which is located at 655 West Avenue 135th, San Leandro, Calif. When taking over the expanded quarters, announcement was made also that the new firm name is **R. E. Layton & Associates**. Consulting Engineers, instead of **Raymond E. Layton**, Consulting Engineer, as formerly.

* * *

Idaho State Highway Engineer G. Bryce Bennett recently announced that **Alfred J. Sachse**, senior resident engineer at Coeur d'Alene, has been named to the post of district engineer of District 5 at Coeur d'Alene, replacing **John A. "Jack" Phelps** who resigned last October. Sachse began his career in the Highway Department in 1923. Since that time he has come up through the ranks as district maintenance engineer, district bridge engineer, and senior resident engineer. Last June he was co-winner of the Dr. L. I. Hewes Award presented annually by **Western Construction** at the WASHO conference. Sachse received the recognition for his outstanding engineering in the designing and construction supervision of Sandpoint Bridge.

* * *

Archie N. Carter, for the past nine years manager of the highway contractors' division of the Associated General Contractors at the national headquarters office in Washington,

D. C., has joined with **James A. Lindsey, Jr.**, president of Lindsey Engineering Co., Excelsior, Minn., in establishing a new firm known as **Lindsey, Carter & Associates, Inc.**, Consulting Engineers and Land Surveyors. Headquarters of the new company will be located in Excelsior. The firm will specialize in planning and design of highways, drainage, water supply, sewerage and other municipal facilities, plus land surveying.

* * *

Francis V. duPont, former U. S. Commissioner of Public Roads, has become associated with two consulting engineering firms: **Parsons, Brickerhoff, Hall and Macdonald** of New York City, and **Lockwood, Kessler and Bartlett, Inc.**, Syosset, N. Y., both of which have made major contributions to the advancement of highway engineering in the past.

* * *

Arthur B. Reeves, chief of the Bureau of Reclamation's Division of Irrigation Operations in the Bureau's engineering offices in Denver, Colo., recently retired, completing a 43-yr. career of distinguished service to the Government.

* * *

Martin L. Engstrom, Enumclaw, Alaska, recently retired from the Seattle District of the Corps of Engineers. Engstrom has 20 years of Government service. Also announced by the Seattle District is the retirement of **Roy E. Smith**, a structural engineer, and of **Carl D. Pollock**, sanitation engineer, in the Design Branch of the Engineering Division. Smith and Pollock each has 15 years with the Government.



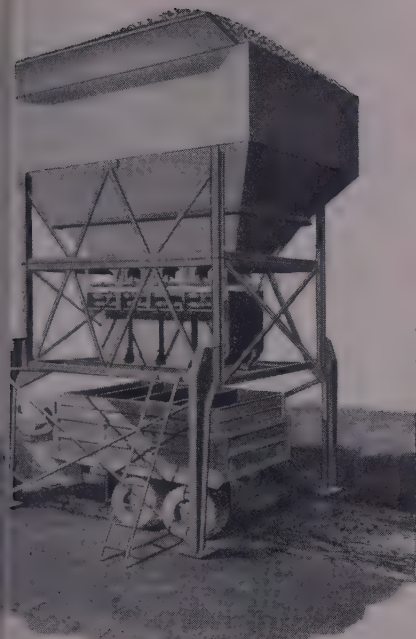
CARL EILERTSON, who recently was transferred as resident engineer for the Corps of Engineers at Fort Greeley, Big Delta, Alaska. For ten years Eilertson served with the Corps at Whittier, most of the time as resident engineer where he supervised more than \$42,000,000 in construction at the military port.

Operation

BATCHES SIMULTANEOUSLY

New BUTLER TX-4 Keeps Pace with FOUR 34E Dual Drum Pavers

Here's new engineered Automation so flexible, so fast, so dependable that it *obsoletes* all existing roadbuilders' plants. It's the new BUTLER TX-4 System, the modern batching plant that every contractor today *needs* to compete successfully. The contractor with only one paver starts with a TX-4 plant equipped with 2 batchers, and, as he expands with the road program, he simply adds additional batchers to the *same bins* to take care of 2, 3 or 4 pavers — and still retaining ONE-MAN OPERATION!



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ONLY ONE OPERATOR

Builders Plant



Two or four-batcher units are shipped, handled, moved and stored with all piping and wiring in place.

How BUTLER TX-4 System fits Your Expansion Plans

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Handles one or two-batch trucks simultaneously

This Basic Plant, at minimum investment, provides facilities for batching for two-batch trucks — with one operator.



COARSE STONE FINE STONE



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E-X-P-A-N-D-E-D UNIT

By merely adding extra batchers, at minimum extra cost, the Expanded Unit handles three or four pavers working at optimum production, charges 3- or 4-batch trucks



COARSE STONE



FINE STONE

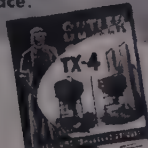


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SAND

CTS



Write for FREE copy of this Bulletin giving complete details and specifications on every phase and feature of the new BUTLER TX-4 Road Building Systems.

BUTLER BIN CO.

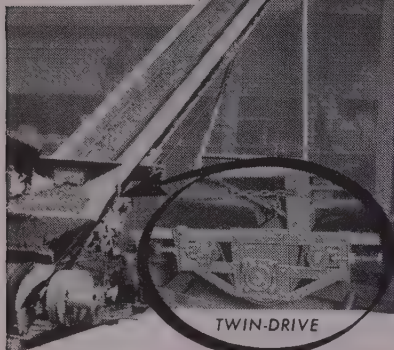
999 Blackstone Avenue
Waukesha, Wisconsin

See manufacturer's detailed listing in Yellow Section

MULKEY

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*Pat. Pending



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GRAVEL, WIDE MATERIALS**

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Handles Brick,
Blocks, Lumber,
Wide Materials



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GENERAL MACHINERY CO., Spokane
ARNOLD MACHINERY CO., INC.
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WESTERN MACHINERY CO., Phoenix
CONTRACTORS EQUIP. & SUPPLY CO.,
Albuquerque
THE UNIVERSAL CO., Denver
EDWARD R. BACON CO., San Francisco,
Sacramento, Fresno, Oakland

Structural Design Chart -VI

By **THOMAS HARAN**, Civil Engineer

THE ILLUSTRATED DATA appearing on the opposite page are a graphic condensation of the author's interpretation of the structural design requirements for beams that are set forth in "The ACI Building Code" (ACI 318-51). Analysis requirements were presented in Chart I. Due to the fact that the ACI Code makes very few references to roofs, concerning itself mainly with floors, this chart has been prepared with the general reference to floors in the title; however, since the main difference between floor and roof design is the magnitude and orientation of live load, the information presented on the opposite page may be used for the design of both floors and roofs.

Most of the symbols and abbreviations are those in current use, and wherever possible those appearing in the Code have been utilized in the chart. Thickness of concrete cover over reinforcing steel is indicated by "c," which refers to a table in Chart No. 12 (to be published in the future). The minimum space between reinforcing bars is indicated as $(4/3)G$, meaning $4/3$ the maximum size of the coarse aggregate.

Beams have been frequently shown with sloping surfaces as a reminder that the Code does not require that these surfaces be horizontal or vertical.

The requirement for assuming a cantilevered flange for the design of flange bars in T-beams that run parallel to principal reinforcement of adjacent slabs is illustrated near the top of the page. It may be noted, incidentally, that a literal interpretation of the Code also permits the designer to ignore the flanges entirely (even though they are mobilized when the floor is deflected under load) and design the beam as a rectangular section.

Minimum steel requirements are presented by assuming a couple of moment diagrams with curves drawn on the side of the beam which is in tension. The cases of $1/2\%$ minimum tensile reinforcement at integral supports and at sagging central parts of spans are illustrated by extending the bars only as far as they are shown to be required by the moment curves and then terminating some or all bars, depending on bond and anchorage requirements. The stipulation of ties for compressive rein-

forcement is indicated near the bottom of the page. The graph indicates the minimum A_s per foot of beam width for beam depths of 5 to 60 in., i.e., a beam 18 in. wide with a depth of 30 in. requires at least 2.7 sq. in. of steel in areas indicated by the beams above the graph. It hardly needs to be pointed out, of course, that in most beam designs the actual moment envelopes and bond and anchorage requirements demand more steel than the minimums indicated here. This may be observed from some of the illustrations in Chart No. 7—"Anchorage and Shear"—which will be published in *Western Construction* next month.

Comment on October chart

DEAR SIR:

T. Haran's interpretation of the ACI structural analysis of flat slab floors in the October issue of *Western Construction*, page 69, should be used with caution.

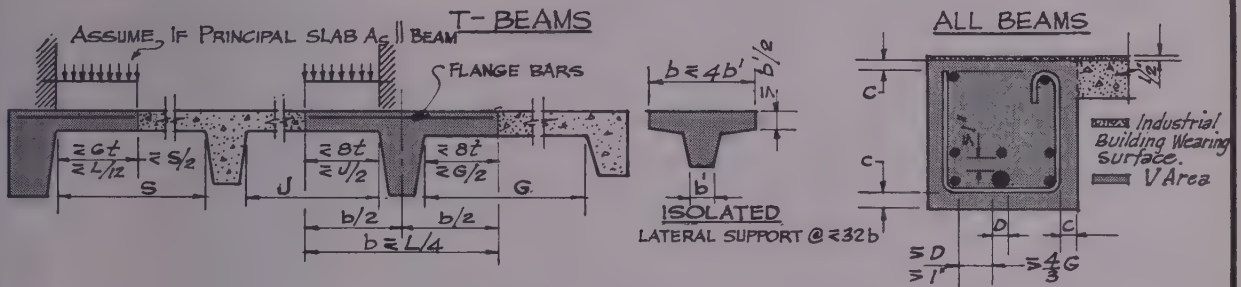
The ACI code requires, when making an elastic analysis of flat slabs, that infinite moment of inertia be assumed in the slabs for a specified distance from the column centerlines, and in the columns to a point near the small end of the column cap. This is not the same as saying reduced spans and story heights may be used as indicated in the article by T. Haran, nor will the results always be the same, or on the safe side.

Fixed End Moments, Stiffness, and Carryover Factors for members having infinite moment of inertia at one or both ends can be found in Tables 56 and 57 of the Handbook of Frame Constants published by the Portland Cement Association. These should be used when designing flat slabs along with the actual column spacing as span length and true story height as column height. The use of reduced slab spans and story heights in and elastic analysis of flat slabs will give moments, shears, and reactions that may not be on the safe side, especially for slabs with very large capitals. The recent number of flat slab failures indicates that the provisions of the ACI code should be strictly adhered to.

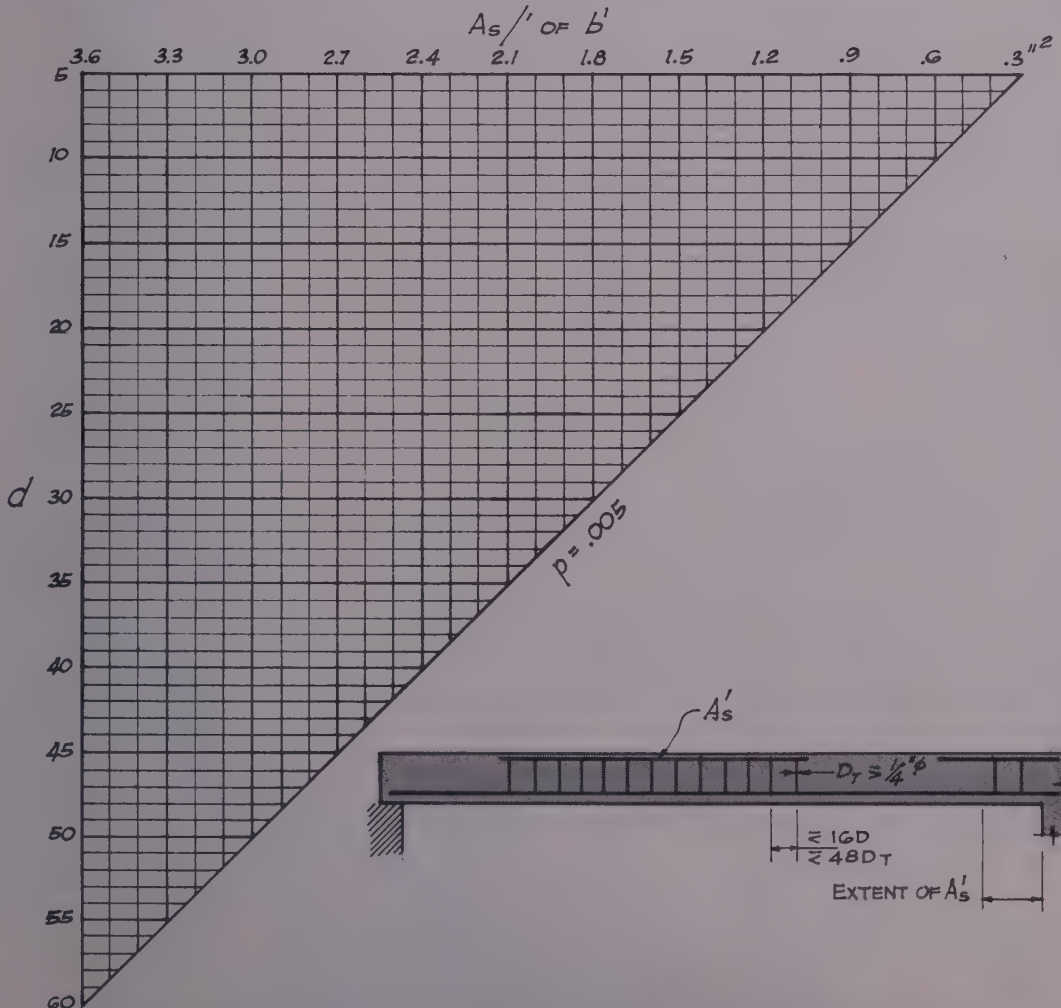
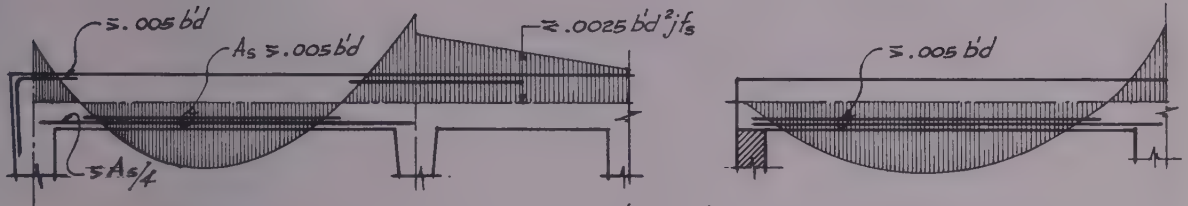
R. C. LOFGREN

Reg. Civil and Structural Engineer
Tacoma City Light, Major Proj. Div.

A.C.I. STRUCTURAL DESIGN OF FLOOR BEAMS



MINIMUM A_s



SUPERVISING the jobs



OCCASIONED by a recent visit to San Francisco of **George F. Ferris**, President of Raymond Concrete Pile Co., several of Raymond's superintendents in the San Francisco-Oakland district attended a meeting of the Society of American Military Engineers where President Ferris was the speaker. Front row (l. to r.): **George Jost**, **Lee Clary**, **Ferris**, Assistant Vice President **Otis C. Struthers**, **Jack Barnhill**, **Fred Cavin**. Back row: **Dick Castle**, **Charles A. Hegyes** (New York office), **Don MacVean**, **Tom Lowry**, **John Bianchi**, **Carl Hartzell**, **Bill Smith**, General Superintendent **Carl C. Cramer**, **Frank Roberts**, District Manager **C. R. Graff**, **Chuck Hackbarth**. Not present because they were too far away from the city were superintendents **Boyd Begg**, **Emmett Littlefield**, **Peter Shelton**, **Andy Jezierski**, **Collin Sutherland**, and **Rhea Weaver**.

Dick Rietz, superintendent for MacGregor-Triangle Co., is handling a \$166,144 award to this contractor covering construction of the new Black Canyon road in Targhee National Forest, Idaho. **Joe Simunich** is assisting as foreman, and **Harold McDowell** as mechanic. This is a year long job which got under way in September.

* * *

Don Bradley is superintending a 13-mi. surfacing and oiling job on the Yuma-Parker highway in Arizona for D. M. Bradley and S. R. Dysart, contractors. **Pat Murphy** is assisting as foreman on the \$130,332 project.

* * *

David L. Massie is superintending a \$165,562 contract for Siegrist Construction Co. This is a road rebuilding job consisting of 8.6 mi. of grading, surfacing and structures in Custer County, Colo., costing \$165,562. Job is now about finished.

* * *

Ed McPherson, project superintendent, **G. W. Sligar**, project engineer, and **Fred Hampton**, field office manager and purchasing agent, comprise the top personnel on a shopping center under construction at Redondo Beach, Calif. Contractor is McDonald Bros. who started work on the \$2,586,666 award in September and expects to have the project completed about July.

George Primo, superintendent for Kurtz Construction Co., is supervising construction of county road extension from Concord to Pacheco, Calif., including bridge with twelve 25-ton precast reinforced concrete beams, cast on the spot and lifted by mobile crane. **Paul Dalzell** of Dalzell Rigging Co. supervised the heavy lifting job for his company.

* * *

Nearing completion in record time under direction of **Barry Morgan**, project manager, is Blount Bros.' \$1,000,000 contract for guided missile site construction near Travis AFB, Calif. Key personnel for subcontractors Syar and Harms, include **Jack Bean**, general superintendent, **Cliff Cotter**, excavation superintendent, **Jack Johnson**, engineering, and **Bill King**, master mechanic.

* * *

George Moore and **Harley Shull**, superintendents for Howard J. White, Inc., are in charge of this contractor's recent award at \$749,037 for construction of two school projects at Cupertino, Calif. Started Oct. 1, the jobs will probably end the first of next June.

* * *

Cal Rickel, project superintendent for Horner-Mid-Valley, a joint venture of A. S. Horner Construction Co. and Mid-Valley Utility Constructors, Inc., is supervising the recent

\$4,175,000 award for construction of the Abiquiu Dam outlet works at Abiquiu, N. Mex. (*Western Construction*—Nov. 1956, p. 48). The contract covers roads, 2,250 ft. of 12-ft. diam. concrete lined tunnel, 300 ft. of 16-ft. concrete lined shaft, operations building, two river diversions, channels and portal excavation. Key men are **Jack Lacey**, project engineer, **Charles Cusack**, engineer, as well as **C. E. Rickel**, carpenter superintendent, **C. F. Krueger**, materials control, **Robert Silva**, tunnel and shaft superintendent, **Floyd Gray**, master mechanic, **Gene Vermillion**, chief electrician, and **Sam Martinez**, shifter. **Joe Tipton** is office manager. Also in the office are **Jim Quinlan**, timekeeper, and **Anita Montoya**.

The Condon-Cunningham Co., subcontracting the roads and earthwork, is represented by **Leo Donelson**, superintendent, **Harold Brown**, office manager, **Bob Allred**, engineer, and the following foremen: "**Red**" **Koontz**, **Eli Kramer**, **Jim Donelson**.

Corps of Engineers men are **Don H. Wilson**, resident engineer, "**Scotty**" **Sneddon**, field engineer, and **Ralph Marshall**, inspector.

* * *

W. M. McMakin, project manager, and **Anthony Bruno**, project superintendent, are key men on a recent award in the sum of \$1,317,165 which went to L. C. Smith Construction Co. for grading and paving 4.2 mi. of the over-water section of Bayshore Freeway in San Francisco and San Mateo counties, Calif. Assisting as foremen on grading are **George Marsh** and **Floyd Butler**.

* * *

William J. Kennish, general superintendent for J. A. Jones Construction Co. and **Charles H. Tompkins** Co., heads the list of job personnel assigned to the \$18,272,000 Swift hydroelectric dam on the Lewis River,



William J. Kennish

Wash. Two more key men are **Harold Taylor**, master mechanic, and **M. L. Yurkovich**, office manager. Work on the 510-ft. dam started early in November, with the project earmarked for completion the end of 1958.

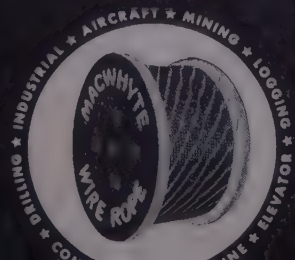
See manufacturer's detailed listing in Yellow Section for advertiser on opposite page ➡



1000 and 1 WHYTE STRAND WIRE ROPES

designed to meet every requirement of your equipment

Whatever your equipment needs, there is a Macwhyte Wire Rope to serve you the sure, dependable way. **WHYTE STRAND** by Macwhyte is produced to meet every job specification under any conditions—**PRE**formed for flexibility, and **Internally Lubricated** for outstanding service. Macwhyte Wire Rope is available in stock for immediate delivery. Ask for Catalog G-16 and recommendations for the correct Macwhyte Rope for you.



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Portland 9, 1603 N.W. 14th Ave., Ph: CApitol 7-1661

San Francisco 7, 188 King Street, Ph: EXbrook 2-4966

Los Angeles 81, 2025 Sacramento St. Ph: TRinity 8222

Max E. Jones is superintending a \$997,597 recent award to **Duffy Reed Construction Co.** for 8.4 mi. of grading, surfacing, and providing maintenance stockpile in **Power County, Ida.** **Howard D'Spain** is office manager. Foremen consist of **H. R. Chandler** and **Don Turner**, grade; and **Earl Hemmert**, labor. Work got under way last October, and is expected to be completed in September.

C. L. Mills, general superintendent for **Howard J. White, Inc.**, and **Fred Samuels**, job superintendent, are top men on this contractor's \$1,347,139 contract for erection of a plant for **Vacuum Tube Manufacturing Co.** at **Palo Alto, Calif.** Started in mid-October, the construction will probably be completed by July 1.

tober, the construction will probably be completed by July 1.

Richard W. Richardson is superintending construction of a **Weyerhaeuser** plate girder railway undercrossing in **Thurston County, Wash.** **N. E. Olson** is engineer and **Ray Stewart** is inspector. The work is being done by **John E. Alexander** who won the award on a low bid of \$151,664. He got the work under way in December and figures to have it finished in June.

Clifford Earsley, superintendent, has been directing a \$235,589 contract for **Henry Thygesen & Co.** covering 21.9 mi. of grading and surfacing of

Shiprock-West road in **San Juan County, N. Mex.** Other important personnel on this work, now about finished, have been **Aubrey Stephens**, hot plant operator; **Grover Meador**, foreman, and **Adam Pobar**, head mechanic.

Tom Ryan and **John Barling**, superintendents, have just finished a road job for **Gerald M. Ryan**, contractor. The work involved grading, draining and miscellaneous construction on 4 mi. of the **Spring Creek** road in **Carbon County, Wyo.**

Charles Stewart and **Claude Nuss** of the contracting firm of **Stewart & Nuss, Inc.**, recently executed a \$203,388 contract for highway work in **Fresno County, Calif.**, on which **Dave Christian** acted as construction superintendent, and **Pete Hamby** supervised the job. Work consisted of 3.4 mi. of grading and surfacing south of **Dos Palos**.

Ralph J. "Tuffy" Jones, project manager; **John P. Cotner**, office manager; **Jack Good**, powder and drill superintendent, and **Robert F. Boyer**, master mechanic, comprise the top personnel on a \$419,784 contract of **Morrison-Knudsen, Inc.** Site of the job is a slide area on **U. S. 40** near the **Nevada-California** state line, where **M-K** is constructing a benched area above roadway elevation, removing debris and rock from roadway, while traffic is being maintained. The work has been under way since November and will probably continue till April.

J. F. Porcher is project manager and **Tom Oglesby** is job superintendent on **Griffith Company's** contract for grading and paving and construction of two bridges along the **Hollywood Freeway** in **Los Angeles County, Calif.** **J. W. Behymer** is office manager. Other important supervisors on the \$2,172,044 project, which will probably be finished in December, are **C. Stringer**, general foreman; **Arlie McCracken**, general foreman—bridges, and **Mike Love**, master mechanic.

Dean Rule, project manager, **George Colton**, foreman, and **J. B. McClelland**, office manager, comprise the top personnel on a \$208,378 contract for 6.2 mi. of grading and surfacing the **West-Escalante-Henrieville** highway, **Utah.** **Morrison-Knudsen Co., Inc.**, has the contract for this road job, which got started Nov. 1 and is scheduled for completion in May.

A. E. Reed as general superintendent is in charge of construction of a bridge over **Yellowstone River** in **Dawson County, Mont.**, a \$923,480 job which went to **Riedesel Construction Co.** and **Schye & Sullivan**, who got started in October and expect to have the work finished about November 1958.

See you at the ARBA Road Show

BOOTH 343

Model 2715 TLH
Hydraulic-Lift

ON DISPLAY

Model BD-10
Bottom-Dump

Don't miss
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CHICAGO
January 28 -
February 2, 1957

See manufacturer's detailed listing in Yellow Section for advertiser on opposite page

TRICKS of the TRADES



Contractor tries both aluminum and steel pipe

TWO LINES, each 400 ft. long, were needed to carry water during excavation for an addition to the Santa Clara, Calif., plant of Container Corp. The first line was constructed with conventional steel pipe and joints, the second with aluminum pipe. Aluminum couplers made by John Bean Division of Food Machinery & Chemical Corp., San Jose, Calif., were used to join the sections of aluminum

pipe. Lines were fed by sump pumps.

According to S. A. Davis, general superintendent for Swinerton & Walberg Co., the installation of the aluminum line cost only 1/6 that of the steel line. The savings in installation were attributed to the speed with which the light aluminum sections could be handled and joined, and also to the fact that the work could be done by common labor.



Payloader pulls tailing blade

TO AVOID DOWN-TIME while waiting for heavy tractor equipment to be trucked in from another job, the operator of the model HH Payloader, owned by Douglas Construction Co. of Topeka, Kan., decided to

try to pull the heavy 27-ft. tailing blade with his tractor shovel.

The company found that it not only was able to do the work, but did it so well that they are now using it in all of their operations installing roads, streets and doing heavy construction work.

Films Available

ROADBUILDING with hi-speed Hyster "Grid" Roller is shown in a 16 mm sound motion picture in color. No charge for bookings. Contact your Caterpillar-Hyster dealer, or write Hyster Company, 2902 N.E. Clackamas St., Portland 8, Ore.

QUALITY UNLIMITED is a new sound-color film describing the manufacture of wire rope made available by the Wickwire Spencer Steel Division of The Colorado Fuel and Iron Corp. Running 30 min. in length, film follows all operations in the production of wire rope from basic steel making to testing of the finished rope. For information, write The Colorado Fuel and Iron Corp., 575 Madison Ave., New York 22, N.Y.

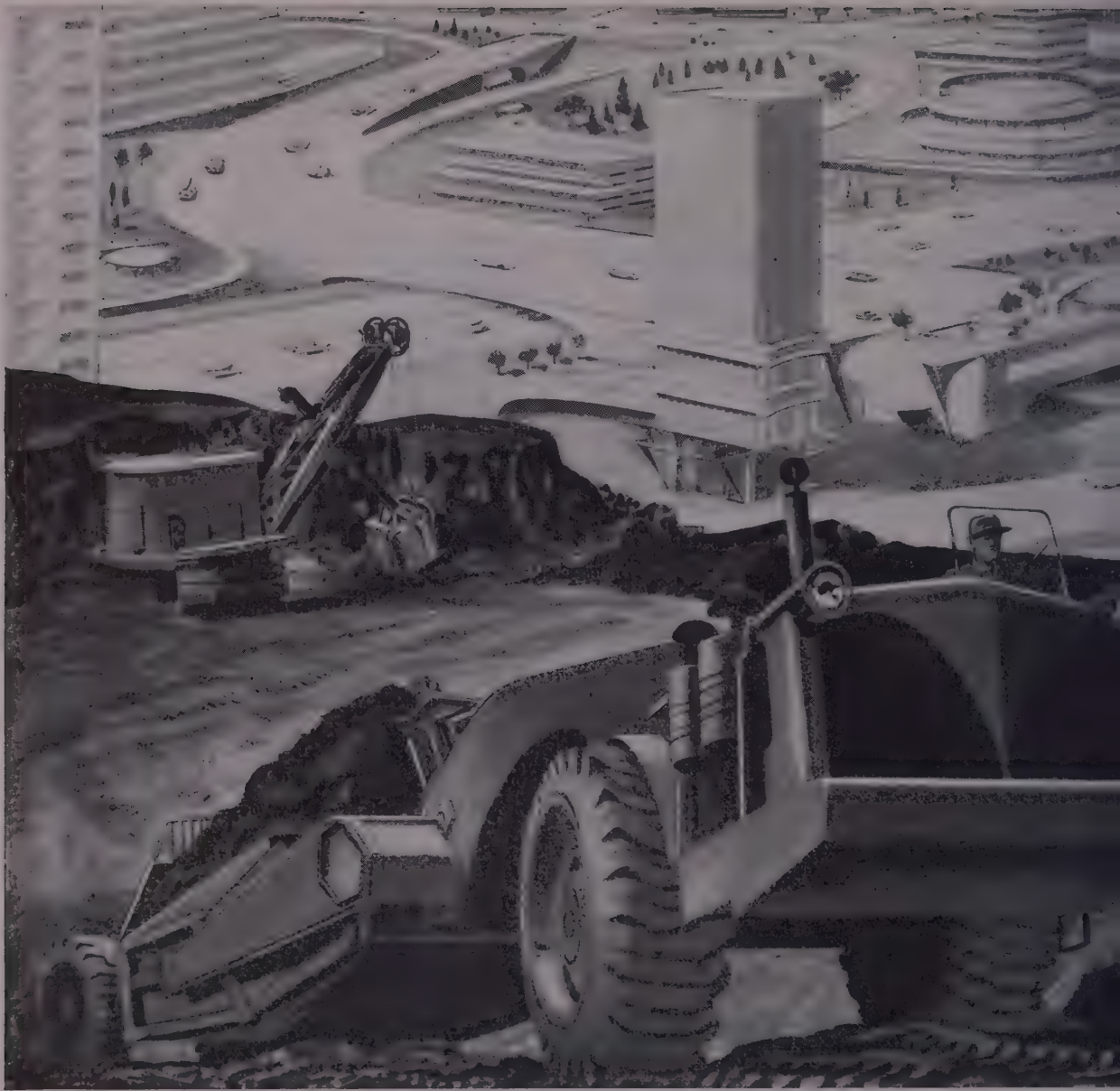
CONTRACTORS faced with a public relations problem in the performance of blasting operations near populated areas will be interested in a new 25-min. motion picture entitled "We're Blasting Near You." This color film describes the precautions taken by blasters to prevent accidents and protect private property. To schedule a showing or for further information, write Explosives Development Section, Atlas Powder Co., Wilmington 99, Del.

EUCLID DIVISION, General Motors Corp., announces release of a new 16 mm color, sound film, "Contractors Decision." The 10-min. film features the S-18 scraper, and covers the three major concerns of a contractor who operates scrapers: performance, dependability, and component accessibility for ease of maintenance. Arrangements can be made to borrow a print through Euclid dealers, regional offices, or by writing to Euclid Division, Cleveland 17, Ohio.



SIMPLE SAFETY HOOK

A simple, sturdy safety hook has been developed by Vic Patton, bulldozer foreman of Kennecott Copper Corporation, Chino Mines Division, Hurley, New Mexico. To open the hook a sliding section is moved up on a square shank. To close, just drop the sliding section back into place. Since the shank is square the hook cannot twist open.



Multiplies muscles - speeds

COUNTRYSIDE, U.S.A. — from Cape Cod to the Golden Gate, from Mackinac to Mexicali — is being readied for the biggest “face lifting” job in history — for the great new network of turnpikes and throughways to serve the needs of an impatient motoring public.

“Operation Facelift” is underway — speeding today’s byways into tomorrow’s highways. And, pitting giant muscles against this tremendous task is the newest road-building equipment. For modern machines are the key to modern roads.

The *most modern* of these giant road-building

machines have one point in common — TORQMATIC DRIVE. For manufacturers and contractors alike first TORQMATIC equipment works faster from first cut to final paving. TORQMATIC Converters match engine power to load demand — multiply torque for bigger “bites” with less strain. TORQMATIC Transmissions provide continuous full-power shifting—forward and reverse — for quicker completion of every job. And TORQMATIC DRIVES make every machine easier to operate, reducing the need for extensive operator training.

122 kinds of construction equipment built by 50 different manufacturers are *now* available with



byways into highways

TORQMATIC DRIVE. You'll see many of them on display at the ARBA Show in Chicago. And, we'll be looking for you at the Allison TORQMATIC Display, too, where we'll show you how TORQMATIC DRIVES can give your equipment *new utility—new efficiency—*

new economy. For further information, write: Allison, Division of General Motors, Box 894K, Indianapolis, Indiana.

**See you at the ARBA Show, Chicago,
January 28 through February 2**

Allison

TORQMATIC DRIVES



NEW LITERATURE

For your convenience in obtaining free copies of literature described, the company address is provided with each review.

Hopto digger brochures

Badger Machine Co., Winona, Minn., has issued three bulletins on the Hopto hydraulic diggers. Bulletin GB-155 illustrates the entire line of crawler-mounted and trailer-type models. Bulletin RTM 80-55 describes the Model 80 RTM-55 with the model 75 front end loader; and Bulletin 180-2-54 describes the 180 trailer-type model with backhoe and shovel attachments. Specifications are provided along with diagrams and job photographs.

Soil-Cement Handbook, PCA Soil Primer revised

Revised editions of Soil-Cement Construction Handbook and PCA Soil Primer have been published by the Portland Cement Association. The booklets include much new information based on recent research in soil science and soil-cement construction methods. The Soil-Cement Construction Handbook gives practical, detailed procedures for building a soil-cement base course under various soil and topographical conditions. It includes as well supplementary information on inspection and field control and a resume of soil surveying, sampling and laboratory testing. The PCA Soil Primer contains basic information on soil and its influence on the design, construction, and performance of pavements. Single copies of these two booklets are available from the Portland Cement Association, 33 W. Grand Ave., Chicago 10, Ill.

Smith concrete mixers

A 12-page illustrated booklet is now available from the T. L. Smith Co. describing the firm's complete line of concrete mixers. Among the units described are the Smith Integral truck mixers, deluxe truck mixer-agitators, tilters, portable mixer and industrial batch mixers. The brochure contains an alphabetized list of Smith dealers in the United States and abroad and a return card for the reader's convenience in obtaining further information about the individual units. The T. L. Smith Co., 2835 North 32nd St., Milwaukee 10, Wis.

35-ton Lorain Moto-Crane catalog

The Thew Shovel Co., Lorain, Ohio, has just published a two-color, 16-page catalog describing its new 35-ton Lorain Moto-Crane, model MC-530W, recently added to the Lorain line of power shovels and cranes. The heavily illustrated publication describes fully several of the new features of this entirely new design, high capacity, heavy-duty lifting crane that is transportable over the highways. Among the new developments described are the "Shear-Ball" mounting that eliminates all turntable rollers, center pins and centering gudgeons, and 35-ft. pin-connected boom of alloy steel of the new Lorain square-tubular-main-chord design for increased lifting capacities. The catalog also pictures optional equipment designed for the unit.

American Hoist catalogs

New literature from American Hoist & Derrick Co. includes three catalogs describing the American line of truck and self-propelled cranes with 30-ton capacity, the American 200 series truck crane with 20-ton capacity and American steel derricks with 2½ to 250-ton capacities. The catalogs are fully illustrated with pictures and diagrams and contain detailed information on the units, their integral parts and attachments. Request catalogs No. 700-G-27, 700-G-29 and 700-G-27 respectively. American Hoist & Derrick Co., 63 So. Robert St., St. Paul, Minn.

Portable asphalt plant described

Standard Steel Corp., Los Angeles, has released a new bulletin describing the TM Mobile Mixer, a portable asphalt plant that is completely self-contained on a single trailer frame. Shown in photos and thoroughly discussed in the text are essential parts of the plant such as: the self-lift erecting device which raises entire mixing and gradation unit; screens, aggregate storage bin, heavy-duty mixer and positive weight control with all-welded steel aggregate weigh hopper and asphalt bucket suspended on springless dial scales. Specifications of the new portable asphalt plant and accessories are described in the bulletin, available from the Road Machinery Division, Standard Steel Corp., 5001 South Bovle Ave., Los Angeles 58, Calif.

New Holub catalog

A new catalog covering more than 400 items in the "Hi" line of electrical and mechanical products and equipment has been published by Holub Industries, Inc., Sycamore, Ill. New products shown for the first time are a plastic screw anchor kit, Lok-On wire connectors, Snap-On metal straps, Tape-Mate fish tape winder and Ream-Rite, a tool for smoothing and beveling the freshly cut ends of thin wall conduit. Ask for "Hi" catalog No. 12.

Operator's guide for Cat wheel tractors and scrapers

A comprehensive operator's guide for Caterpillar wheel tractors and scrapers has recently been published by Caterpillar Tractor Co., Peoria, Ill. The 24-page booklet describes the proper operation of rubber-tired earthmovers in all phases of their work. Detailed tips on loading, hauling, dumping, and returning are included. Operator ease is stressed in an explanation of proper shifting and use of scraper controls. Color pictures further explain important facts about the earthmoving cycle. To enable an operator to quickly grasp basic service checks on his equipment, the booklet includes an easily understood checklist of important pre-operation checks. The booklet, Form 32022, may be obtained from any authorized Caterpillar dealer, or by writing the company.

Link-Belt Speeder catalog

A new, condensed catalog of the complete line of Link-Belt Speeder shovel-cranes, Book 2577, has just been released by the Link-Belt Speeder Corp., Cedar Rapids, Iowa. The new eight-page, two-color catalog features a four-page center display with descriptions of 18 crawler-mounted models ranging from ½ to 3 yd., 8 to 75-ton capacities; five truck-cranes with capacities from 12½ to 35 ton; and four self-propelled, rubber-tired models with capacities from 15 to 35 tons. The new condensed catalog gives descriptive information on the more than 20 new models introduced in the last few years, and includes a fully-illus-



Have you seen the brand-new C Tournapull with increased-capacity "Fullpak" scraper? It's lower, wider, better-than-ever! Loads faster, boils easier . . . heaps 18-yd. pay-loads for more profitable dirtmoving. Ask for details.

▶ Loading from ledge, Tournapull-Tournatractor team speeds dirtmoving operations on 90-acre housing project. Contractor E. R. Fenwick found one Tournatractor sufficient to push-load his 3 high-capacity "C's", and keep them busy moving wet, red shale.

Level 90,000 yds. of red shale for future 400-home subdivision

To cut and fill a hilly 90-acre site in preparation for the erection of 400 homes, Everett R. Fenwick of Matawan, N.J., employed 3 C Tournapulls to haul dirt . . . and a dozer-equipped Tournatractor to push-load the "C's" and handle clean-up.

This project, known as Roosevelt Park Housing Development, at Woodbridge, N.J., is being built by Sommer Brothers of Iselin, N.J.—who hired Fenwick for the 90,000-yd. cut-and-fill work. Material was red shale . . . heavy, difficult to load, and wet.

Average pay-load of high void shale picked up by Tournapulls was 10 cu. yds. On a round trip distance of 816' cycle-time was 3 min. 5 sec., average. "Pulls" had to climb a 15% grade on return trip. Because of scattered areas of cut and fill, no haul-road, as such, was possible. "C's" had constantly rough hauls.

"Tops for big jobs"

"C Tournapulls are tops for big earthmoving work", Fenwick said. "I also have two D Tournapulls, which I use on smaller assignments. The combination of the two makes it possible for me to handle any type of earthmoving job with confidence."

"My Tournatractor has also proven itself to me by solid performance and utmost economy on many projects," he added.

Tournapulls can help you

You may have a job similar to those successfully handled by this New Jersey contractor. If so, you can benefit from Tournapull's rubber-tired mobility and easy to handle electric-control system. Let us show you owner-verified facts on Tournapull and Tournatractor performance. There's a size and type machine to do *your* job in less time, at bigger profit!



C Tournapull loads fast, packs big yardage in bowl. Dozer-equipped Tournatractor has power and speed to push-load "C" fast.



C Tournapull spreads load, then uses 90° power-steer to swing around in turn leaving fill. Maneuverable "C's" work handily in narrow spaces . . . ride smoothly.

Fullpak—Trademark, Tournapull, Tournatractor—
—Trademark Reg. U.S. Pat. Off. P-1004-B-b



LeTourneau-WESTINGHOUSE Company, PEORIA, ILLINOIS

A Subsidiary of Westinghouse Air Brake Company

See manufacturer's detailed listing in Yellow Section



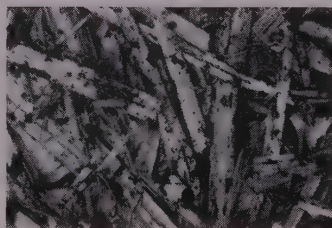
BITUMULS SOIL COVER holds mulch on highway slopes

For fast, low-cost erosion control, Roadbuilders in many sections of the country have found Bitumuls® Soil Cover highly effective.

On thousands of acres adjacent to the Ohio, Indiana and West Virginia Turnpikes, they have used newly-developed equipment to apply a mixture of a specially-developed Bitumuls adhesive and straw mulch at a rate of one-and-one-half tons of straw and 100 to 200 gallons of Bitumuls Soil Cover per acre.

The Bitumuls Soil Cover mulch resists the action of wind and rain; creates an artificially-held bed for seed-development; "gives nature a chance" to replace a cover-crop on the exposed areas.

Our office nearest you will gladly supply full details.



Tested, Proved, Specified and Used on thousands of acres on the Ohio, Indiana and West Virginia turnpikes, Bitumuls Soil Cover offers these advantages to any Roadbuilder:

1. *Positive adhesion*
2. *Fast, economical coverage*
3. *Easy, uniform placement, even on steepest slopes*



American Bitumuls & Asphalt Company

200 Bush St., San Francisco 20, California

Baltimore 3, Md.
Mobile, Ala.
Inglewood, Calif.

St. Louis 17, Mo.
San Juan 23, P.R.
Oakland 1, Calif.

Perth Amboy, N.J.
Cincinnati 38, Ohio
Tucson, Ariz.
Portland 7, Ore.

See manufacturer's detailed listing in Yellow Section

trated description of Speed-o-Matic, a Link-Belt Speeder feature which provides full hydraulic power control.

High capacity burner for asphalt plants

A new two-page bulletin describing the Standard Model S-H low pressure atomizing burner is now available from **Standard Steel Corp.**, 5001 South Boyle Ave., Los Angeles 58, Calif. Specification data and illustrations are provided to explain the operation of these new burners with the carefully balanced exhaust system on Standard's asphalt plant dryers. It is stated that the new burners produce a penetration and equalization of heat in the dryers heretofore not possible in a low pressure burner.

Data on asphalt construction

The Asphalt Institute, Pacific Coast Division, Russ Bldg., San Francisco, has booklets available on all phases of asphalt construction. Some of the titles are: Introduction to Asphalt; Thickness Design; Flexible Pavements for Streets and Highways; Asphalts, Paving and Liquid—Specifications Tables and Uses; The ABC of Road-Building; Asphalt Curbs and Gutters; Asphalt as a Material; Asphalt-Paved Residential Streets; Asphalt-Paved Parking Areas; and Asphalt-Paved Driveways. Free copies are available upon request.

Onan air-cooled electric plants

An eight-page pocket folder issued by **D. W. Onan & Sons, Inc.**, describes the air-cooled Onan electric plants which can now be installed in completely enclosed compartments. Featured is the Onan Vacu-Flo cooling system which pulls cooling air through the generator and over the heated engine parts, and then expels the heated air through a duct to the outside. Photographs and drawings illustrate the text. D. W. Onan & Sons, Inc., University Ave. S. E. and 25th, Minneapolis 14, Minn.

John Deere industrial equipment

The John Deere line of crawler and wheel-type industrial tractors and allied equipment is fully described in a new 24-page handbook now available. Heavily illustrated, the booklet contains detailed information and specifications on the John Deere attachments—No. 61 angling dozer, No. 47 mower, rear-mounted blade, scoop, straight snow plow and fork lift—as well as performance and specification data on the models 420 crawler and 420 utility tractor. Four



Announcing TWO NEW LIMAS



TYPE 1250 3 CU. YD. HEAVY-DUTY SHOVEL
HIGH-CAPACITY DRAGLINE
85 TON CRANE AT 13' RADIUS

Here are two powerful additions to the LIMA line of power shovels, cranes, draglines and pullshovels. The Types 1250 and the 1250-SC are the carefully engineered answers to the popular demand for a high capacity shovel and a crane that will hoist concrete and steel to the top of a 24-story building.

As a standard shovel, the 1250 is equipped with a 28-foot boom, 22-foot handle and three cubic yard dipper; as a high lift shovel, with a 45-foot boom, 32-foot handle and 2½ cubic yard dipper.

The 1250-SC is designed for sky-scraping duty, a rugged machine that swings a 200-foot boom and 50-foot jib with pin point precision.

These air operated rigs are in the big-time producer class yet their design permits knock down for haulage into units of less than 60,000 pounds. Side frames and counterweight segments are removable and the gantry can be folded to a height of 12-feet, 7¼ inches for job to job transportation.

Two truck bases are available—standard and wide-spread as well as two lengths of crawler assemblies (standard and long). The bases are one-piece carbon steel castings, bored and bushed for through axles.

The 1250 and 1250-SC are available with diesel or electric power and with or without torque converter drive.

SEE THE NEW LIMA 1250 AT THE ROAD SHOW, BOOTH 506 ARENA IN CHICAGO, JAN. 28—FEB. 2



TYPE 1250-SC 100 TON CAPACITY ON 60' BOOM AT 13' RADIUS
18 TON CAPACITY ON 200' BOOM AT 50' RADIUS

Get complete details on this profit-making machine from your nearby LIMA distributor, or write to Construction Equipment Division, Baldwin-Lima-Hamilton Corporation, Lima, Ohio.

COMPARE LIMA QUALITY

... features and available equipment:

- Independent propel
- Load-lowering device
- Extra high-speed hoist attachment
- Third drum
- Power-reversing hoist drum
- Heavy-duty and special lightweight booms
- Telescopic boom stop
- with automatic shutoff
- Steering controlled by gear-type jaw clutches
- Electric lighting equipment
- Torque converter drive
- Anti-friction bearings at all important bearing points

QUALITY CONSTRUCTION

One-piece carbon steel rotating truck base... fabricated steel machinery frames... machine-cut gears... heat-treated steel ground shafting... large diameter clutches and brakes.

THE LIMA LINE INCLUDES:

SHOVELS to 6 cu. yds.	CRANES to 110 tons	DRAGLINES variable	PULLSHOVELS ½ to 2½ cu. yds.
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Smaller machines available on rubber

LIMA

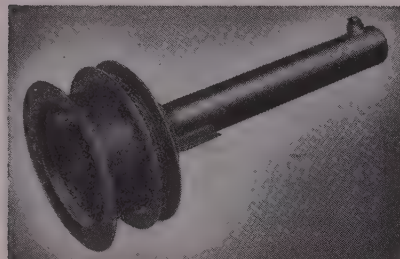
SHOVELS • CRANES
DRAGLINES • PULLSHOVELS



BALDWIN-LIMA-HAMILTON
Construction Equipment Division—LIMA WORKS

DISTRIBUTORS—Our Seattle Office, 1932 First Avenue South, Seattle 4, Washington; **Freenaughty Machinery Co.**, 112 S. E. Belmont Street, Portland 14, Oregon; **Freenaughty Machinery Co.**, 600 Front Street, Boise, Idaho; **Smith Booth Usher Company**, 2001 Santa Fe Avenue, Los Angeles 54, California; **Modern Machinery Co.**, 4412 Trent Avenue, Spokane 10, Washington; **Acme Iron Works**, 540 Calebra Avenue, San Antonio, Texas; **Cascade Industrial Supply**, 4560 Highway 99 South, Redding, California; **Shriver Machinery Company**, 1756 Grand Avenue, Phoenix, Arizona; **N. C. Ribble Co.**, 1304 North Fourth Street, Albuquerque, New Mexico; **Bay Cities Equipment, Inc.**, 2792 Cypress Street, Oakland 7, California; **Bay Cities Equipment, Inc.**, 1178 West San Carlos Street, San Jose, California; **Farris-Moritz Equipment Company**, 1095 South Jason Street, Denver, Colorado; **McGaraghan Supply Company**, 529 Broadway, Eureka, California; **Evans Engine & Equipment Company**, 4300—

2 ways to make crane operations pay more



1 RUD-o-MATIC Combination Magnet Reel-Tagline

Rud-o-Matic Combination Magnet Reel-Tagline saves expensive electric cable wear on overhead and boom crane jobs. Tension on the steel tagline cable keeps the strain from the expensive electric magnet cable. Now standard equipment with major crane manufacturers, the Rud-o-Matic Combination Magnet Reel-Tagline is made in five models to fit your present equipment. Insure complete tagline control on your crane with Rud-o-Matic!



2 RUD-o-MATIC Tagline

Crane operations are more profitable when you install Rud-o-Matic Taglines. Heavy duty torsion coil spring keeps tension on tagline cable at all times for bucket control. Buckets are held steady at any angle of the boom. Available in 11 models for various bucket sizes and pull out requirements. Taglines delivered fully equipped with fairlead and cable attached—ready to install. Get more pay loads per day with your crane with Rud-o-Matic Tagline Control!

For full information on Rud-o-Matic Taglines, call or write—

McCAFFREY-RUDDOCK
Tagline
CORPORATION

2131 East 25th Street • Los Angeles 58, California

See detailed listing in Yellow Section.

pages are devoted to the comments and case histories of various John Deere equipment owners. John Deere & Co., 1325 3rd Ave., Moline, Ill.

Carbide percussion bit catalog

"Long body" bottoming type percussion bits and carbide blanks for bottoming drive rods are featured in a new eight page catalog published by **Vascoloy-Ramet Corp.**, 800 Market St., Waukegan, Ill., manufacturers of cemented carbides for severe wear applications. Charts specifying 19 sizes of the "long body" bit are included. Also described are V-R bits and blanks for seven types of shoulder drive rods and 11 sizes for push-on rods. Breakaway and overhand style bits are also illustrated. All bits are specified as to thread type and diameters available. Carbide bit blanks for four-point and chisel type intra-set steels are cataloged. Request Catalog V-R 486.

Vermiculite data

"Vermiculite Fire Resistance Ratings for Plaster, Acoustical Plastic, and Concrete" has been published by the **Vermiculite Institute**, 208 South LaSalle St., Chicago 4, Ill. Compact and comprehensive, the booklet contains 38 drawings that show fireproofing details for both concrete and steel roof and floor assemblies, columns, beams, girders and trusses, panel or spandrel walls, and solid plaster partitions. The constructions are described as tested. Included are new assemblies that have proved more economical than earlier types, such as direct to steel fireproofing of formed steel floors and roof decks.

Hydrauger earth boring machines

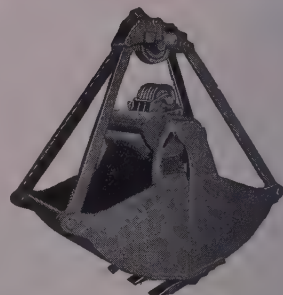
Hydrauger Corp., Ltd., pioneer manufacturer of horizontal earth boring machines, has prepared a new 16-page illustrated booklet presenting the complete new Hydrauger line of machines. Design features such as the use of hydraulic pressure to keep cutting edges of the bit cool and clean for faster cutting are fully explained. Included are field operation photos and views showing embankment drainage and pipe line installation. Copies available from **Hydrauger Corp., Ltd.**, 681 Market St., San Francisco, Calif.

Bridge rehabilitation

Bridge rehabilitation is the subject of Special Engineering Report No. 101, newest technical report published by **Intrusion-Prepakt, Inc.**, Cleveland, Ohio. This 12-page technical report has been prepared for

You can't beat these buckets for work power!

McCAFFREY
All-welded
BUCKETS



CLAMSHELL Extra sturdy, more yardage, more profit! Digging and re-handling types. **EXTRA LIGHT-WEIGHT BUCKET** designed for speedy stockpiling also available.



DRAGLINE Well balanced for deep bites, easy control, and clean dumping.



macGrab—combination magnet grapple handles any type of scrap, and rock. Cuts costs! Use with or without magnet.

MADE IN THE WEST

Quick delivery . . .

Freight savings . . .

24 hour parts service.

M. P. McCAFFREY, INC.

2121 E. 25th Street • Los Angeles

Phone: LU 8-7181

See detailed listing in Yellow Section.

WESTERN CONSTRUCTION—January 1957

"A Real Digger"

says Donatelli



Frank Donatelli and Co., Inc. has a prime contract for widening and improving 7 miles of U. S. 22 East of Pittsburgh. Their model HO "PAYLOADER" (2 $\frac{1}{4}$ -yd.) digs and loads 2,300 yards of hard-packed slag a day for use as special subgrade and shoulder material. James Donatelli says, "New HO 'PAYLOADER' is a real digging and loading machine with very good maneuverability. It's an ideal owner and operator machine." Pete Kerin, the operator, says, "The HO is fast with plenty of power for lifting. Power shift transmission and power steering makes the job easy. Roll-back, pry-out bucket action gets a heaped load in the hardest material."

Owners *expect* more from a "PAYLOADER" and they *get* more because more of them are in service than all other wheeled tractor-shovels combined. Your "PAYLOADER" Distributor wants to prove on *your* job that these three new 4-wheel-drive models can deliver more material at less cost than any comparable tractor-shovels. See him soon about a demonstration.

Full of "More-Yardage Features"

Exclusive power-transfer differentials

No-stop Power-shift transmission

Planetary final drives

Hydraulic system load shock absorber

Powerful 40° bucket breakout action at ground level

Power steering and braking

THE FRANK G. HOUGH CO.

707 Sunnyside Ave., Libertyville, Ill.

Send data on "PAYLOADER" Tractor-shovels

- ☐ 4 wheel drive types to 2 $\frac{1}{4}$ cu. yd.
- ☐ rear wheel drive types to 1 $\frac{1}{2}$ cu. yd.
- ☐ front wheel drive types to 1 cu. yd.

Name _____

Title _____

Company _____

Street _____



PAYLOADER®

MANUFACTURED BY

THE FRANK G. HOUGH CO. LIBERTYVILLE, ILL.

SUBSIDIARY—INTERNATIONAL HARVESTER COMPANY



those responsible for the maintenance and repair of bridges. It provides basic data and information on Intrusion-Prepakt techniques for the restoration and strengthening of bridge piers, abutments and structural members. Two technical articles on the rehabilitation of piers and abutments are included in the report plus eight detailed case histories. Send requests to J. A. Bader, Chief Sales Engineer, Intrusion-Prepakt, Inc., Room 568, Union Commerce Building, Cleveland 14, Ohio.

New Tractair literature

Four new Tractair case histories have been issued by the **Le Roi Division, Westinghouse Air Brake Co.**, Milwaukee 1, Wis. The two-page case histories, printed in three colors and using illustrations, describe the all-purpose combination Tractair-air compressor as used on air application jobs with or without one of more than a dozen attachments. Individual case histories illustrate the use of the Tractair to power air tools or operate attachments for street, water main and railroad repair, and the building and highway construction industries. Address requests to the Sales Promotion Dept.

Boston belting catalog

Complete data on conveyor, elevator and transmission belting is included in the new **Boston Woven Hose & Rubber Co.** belting catalog. Reference tables and specification information provide a working guide for engineers and purchasing agents. Boston's balanced belt construction is explained, a feature which insures even tension throughout the various plies in the belt and prolongs belt life. The 32-page catalog is available from the Boston Woven Hose & Rubber Co., Boston 3, Mass.

New blacktop sealer

A new solvent-proof sealer for use on blacktop roads, parking areas and service stations is described in a bulletin now available from **The Gilbreth Co.**, 1211 Chestnut St., Philadelphia 7, Pa. The four-page bulletin defines this reinforced copolymer resin sealer offering protection to blacktop from the solvent action of gasoline, oil and other petroleum products. Write for bulletin T-43.

New method of soil compaction

Seaman-Gunnison Corp. has released an eight-page folder giving complete information on their new Duo-pactor machine for soil compaction. The brochure opens out to a full length picture of the unit which is accompanied by a detailed analysis of the principle of alternate steel and

rubber rolling. Diagrams of the rolling patterns and job photographs illustrate the text. Copies available from the company, 2763 South 27th St., Milwaukee 15, Wis.

Cat traxcavators

"New Traxcavators for New Profits" is the title of an eight-page booklet recently published by **Caterpillar Tractor Co.**, Peoria, Ill. Such performance factors as stability, bucket capacity, power, and speed are discussed in relation to their effect on profit. Pictures illustrate models No. 933, No. 955, and No. 977 at work on various applications, and are accompanied by production figures on specific contractors' jobs. Also pictured are the Traxcavator attachments available to increase the versatility of these units. Ask for Form 32024.

Republic Steel offers sling assembly manual

A complete line of sling assemblies for every possible application is described in a comprehensive 44-page manual made available by the Bolt and Chain Division, **Republic Steel Corp.**, 1970 Carter Road, Cleveland 13, Ohio. All standard types—single, double, triple and quadruple—made from either Republic alloy steel, or wrought iron are covered in detail as well as their fittings and accessories. Easy-to-read tables supply specification and working load data. Instructions as to the use, care and inspection of the assemblies are included. The handbook is arranged for notebook filing and contains helpful illustrations and diagrams.

Lubricating threaded connections

The lubrication of threaded connections is featured in the second issue of the Lubrication Newsletter now available from **The Alpha Molykote Corp.**, 65 Harvard Ave., Stamford, Conn. The lead article is a technical description of the causes of galling and seizing in threaded connections and power screws and procedures for lubrication to practically eliminate these problems. Descriptive charts show coefficients of friction as calculated from both torque wrench measurements and test data using a threaded assembly.

Brochure describes Universal Wobbler

A six-page color brochure and specification sheets are available describing the Universal Wobbler, a combination scalper-feeder produced

by **Universal Engineering Corp.**, 625 C Ave. N.W., Cedar Rapids, Iowa. Diagrams and photographs illustrate the use of revolving oval bars of manganese steel to separate the fines and keep the material moving at a top capacity of 2,500 tons per hour. (For a description of the unit on the job at Montgomery Dam see **Western Construction**, Dec. 1956, p. 48).

Steel fabrication by Gate City Steel

Now available is a 14-page brochure describing the working facilities, contract manufacturing and warehouse operations of **Gate City Steel, Inc.**, 4000 Warm Springs Ave., Boise, Idaho. Several pages of job photographs illustrate typical steel fabrication assignments.

Tandem axle units

An illustrated four-page bulletin, No. 502, on RT-Series tandem-axle units, has just been released by **Hendrickson Manufacturing Co.**, 8001 West 47th St., Lyons, Ill. These tandem axle units are the standard of the six-wheel truck industry. They are also used in trailer installations requiring articulation and equal load distribution.

Calcium chloride in winter maintenance

Suggestions on how to coordinate maintenance activities so as to melt ice rapidly and provide traction quickly on all streets and highways during the winter months are given in a bulletin published by the **Calcium Chloride Institute**, 909 Ring Bldg., Washington 6, D. C. The brief, "Calcium Chloride in Winter Maintenance," explains how to mix calcium chloride with abrasives and its use as direct application to icy highways and streets.

4000-lb. lift truck

The **Yale & Towne Manufacturing Co.** has released a complete specification bulletin, No. 5082, on the 4,000-lb. capacity Warehouser truck recently added to its line of rider straddle type industrial lift trucks. The literature contains all the key features of the equipment in addition to engineering data. Copies available from the company, 11000 Roosevelt Blvd., Philadelphia 15, Pa.

Rock drill bulletin

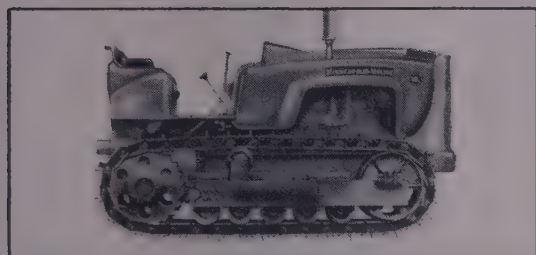
A new 12-page bulletin describing Le Roi-Cleveland rock drills has been issued by the **Le Roi Division, Westinghouse Air Brake Co.**, Milwaukee 1, Wis. The three-color bulletin, AT111B, uses numerous halftones and line drawings to illustrate the company's line of construction tools

Never before so many ways to beat job costs!

Every way you work these new POWERlined Minneapolis-Moline Wheelers you're making money. And never before could any industrial tractor work for you in so many ways! Here's MM high-torque, high-compression power with big piston displacement and moderate rpm—*real* lugging capacity. And to make that extra power pay you best, these new Wheelers have MM's exclusive Ampli-Torc Drive for 10 speeds forward . . . 2 reverse. You can *double* traction power and drop ground speed 48% . . . under load . . . without shifting or clutching. On PTO jobs, these new MM Wheelers give you power straight from the crankshaft, fully independent of the transmission. MM's integral, rear-mounted hydraulic pumps with capacities up to 35 gallons per minute offer highest hydraulic efficiency at low engine speeds.



POWER^{LINED} WHEELERS



NEW 445 CRAWLER—It's the crawler with features only MM could build—all the POWERlined advantages with new crawler traction. Available in gasoline or diesel models.



NEW 335 WHEELER—New performance, new class in this power and price bracket. Packs 47 bhp, big 167 cu. in. engine, wide choice of integrated hydraulic pumps, Ampli-Torc 12-speed drive.

FEATHER-TOUCH HANDLING—

The man who drives your POWERlined Wheeler devotes his attention to doing the *job*. There's no wrestling the wheel, even on the heaviest, muddiest ground; MM's built-in power steering supplies hydraulic muscles to do 90% of the work. One-lever Ampli-Torc Drive control, smooth-acting double-disc brakes, and scientifically located controls help cut jobs times to a brand new low.

CAPACITY THAT CAN TAKE IT—

Your POWERlined Wheeler carries its power on a backbone that can take the heaviest strains of front or rear loads. Heavy cast crankcase, transmission housings, and final drive units are joined by wide flanges to form single-unit rigidity. Heavy-duty industrial front ends and tires take rated capacities right in stride. This recognized MM construction means long trouble-free life under heaviest, continuous-load operation.

PROVE 'EM—ON THE JOBS YOU DO!

Find out what these new POWERlined Wheelers can do to speed *your* jobs. Ask your MM Distributor for an on-the-job demonstration, with the mounted equipment you need.

AT THE ROAD SHOW . . .

- SEE 445 UTILITY WHEELER—57 Engine bhp.
- 445 INDUSTRIAL WHEELER—57 Engine bhp.
- 335 INDUSTRIAL WHEELER—47 Engine bhp.
- NEW 445 CRAWLER—57 Engine bhp.

**The GOLDEN
POWER LINE**

MINNEAPOLIS-MOLINE

INDUSTRIAL POWER DIVISION

• MINNEAPOLIS 1, MINNESOTA

See manufacturer's detailed listing in Yellow Section

SUPER COLOSSAL even in L.A.

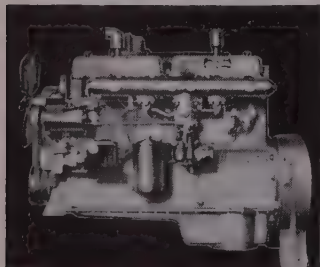


Los Angeles probably saw its highest hoist—10 tons of refrigeration machinery lifted atop the 12-story Roosevelt Bldg.—by a Waukesha-powered, 50-ton American Hoist & Derrick Co. 795-Crane. The self-lifting boom, with its stinger, was 190 ft. high. The Crane is

mounted on a Cook Bros. CT-450 Carrier which is also Waukesha-powered. The Owl Truck & Construction Company of Compton, California, own and operated the crane. The job took only one day, instead of the estimated five days needed with a stiff leg.

WAUKESHA ENGINES

Powering Crane (boom)—140-GK
Waukesha Gasoline, six cylinders,
4 1/2-in. x 5 1/2-in., 525 cu. in. displacement.

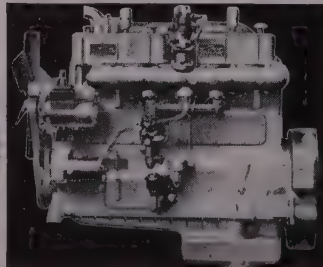


Send for
Bulletins
1548
1553



322

Powering the Carrier—145-GKB
Waukesha Gasoline, six cylinders,
5 1/4-in. x 6-in., 779 cu. in. displacement.



WAUKESHA MOTOR COMPANY, Waukesha, Wisconsin • New York • Tulsa • Los Angeles

—breakers, sinkers, clay spades, tampers, and wagon drills. Individual pages are devoted to tool design and construction, operator handling and care, and maintenance features leading to longer tool life. Copies may be obtained by writing the Division's Sales Promotion Dept.

TerraTrac hydraulic backhoe

A new six-page, three-color bulletin, TTS-121, illustrates special features of the new TerraTrac hydraulic backhoe, with detailed operational drawings and complete specifications for both backhoe and TerraTrac crawler tractors on which it can be mounted. Copies available from American Tractor Corp., Churubusco, Ind.

Motor grader manual

Detailed instructions and suggestions for effective motor grader operation are given in a full-color, 32-page booklet entitled "Basic Blading." The attractive manual, published by Caterpillar Tractor Co., describes and illustrates a wide range of grading procedures, blade positions, and operating speeds required for specific jobs. Step-by-step roadbuilding and maintenance procedures are reviewed and suggestions offered for most effective operation under difficult soil conditions. This informative guide may be obtained by writing Caterpillar Tractor Co., Peoria, Ill.

Welding fittings and flanges

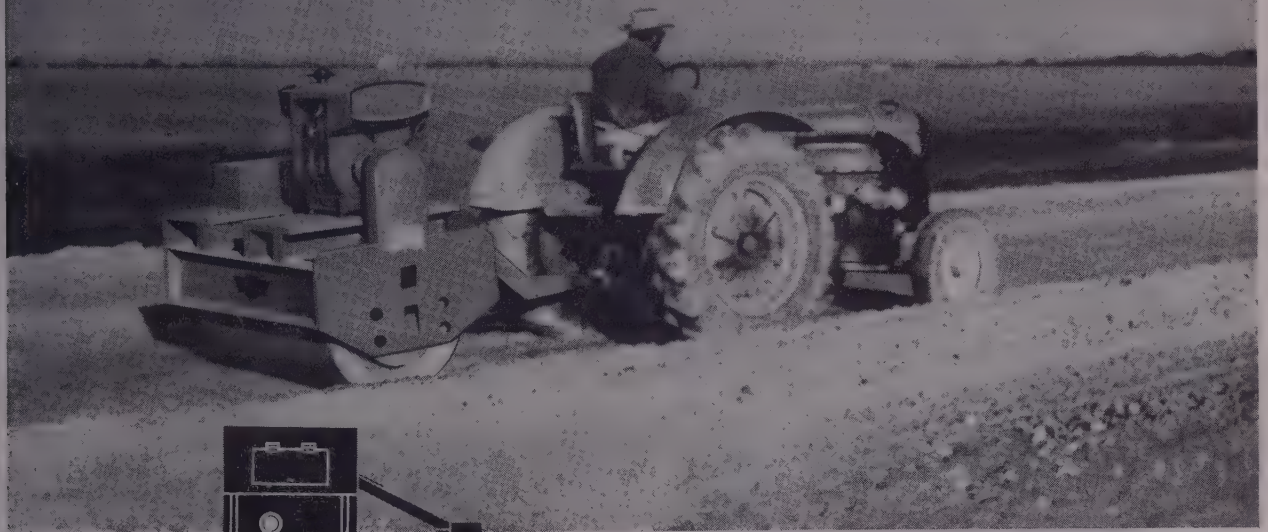
Engineers, buyers and estimators whose duties require them to be familiar with the various types and sizes of welding fittings and flanges will be interested in the new six-page folder released by the Tubular Products Division of the Babcock & Wilcox Co. Folder No. FB-502, describes the full line of carbon, alloy and stainless steel seamless fittings and forged steel flanges handled by the company. Copies available from the sales office at Beaver Falls, Pa.

Worthington motor drives

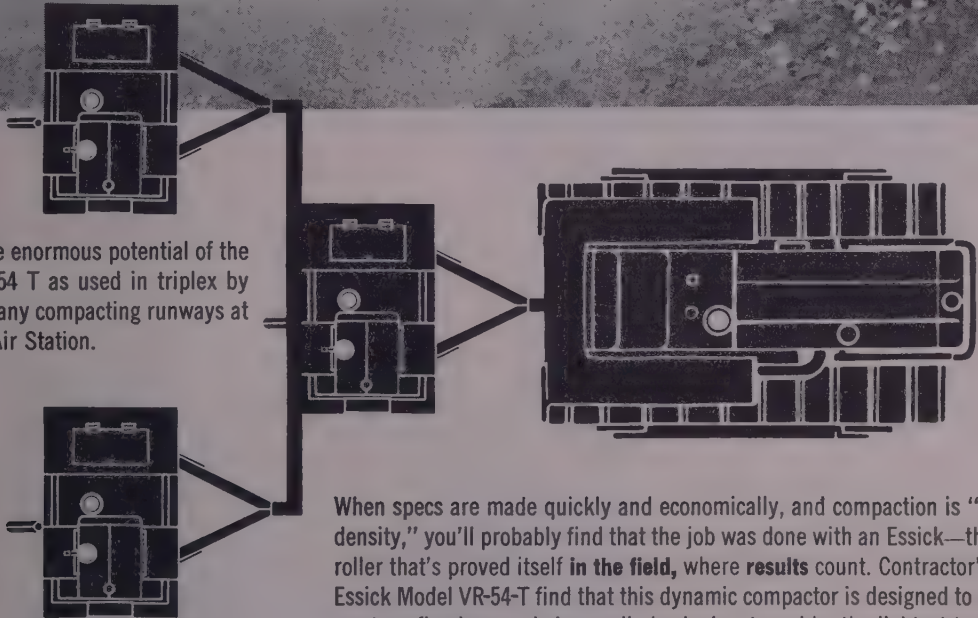
Motor drives with positive pulley adjustment, ranging from 1/2 to 25 hp., is the subject of a new 8-page bulletin offered by Worthington Corp., Harrison, N. J. The bulletin contains complete information on how to select variable speed drives to meet any specialized requirement. It describes engineering features, remote controls, separate motor drive, and other Worthington mechanical power transmission products available. Request bulletin No. 1610-B1 P, Advertising & Sales Promotion Dept.

See manufacturer's detailed listing in Yellow Section

in place at density...



Drawing shows the enormous potential of the Essick Model VR 54 T as used in triplex by S. J. Groves Company compacting runways at Lakehurst Naval Air Station.



When specs are made quickly and economically, and compaction is "in place, at density," you'll probably find that the job was done with an Essick—the vibrating roller that's proved itself **in the field**, where **results** count. Contractor's using the Essick Model VR-54-T find that this dynamic compactor is designed to work in the most confined areas, being easily backed or towed by the lightest tractor. 4 to 6 single passes with an Essick will compact 21" of granular material to the most rigid specifications.

If you're looking for compaction **plus** profit, you'll find that the Essick Model VR-54-T has an amazingly low first cost, a low operating cost, and can actually save **two-thirds** on spreading and rolling operations.

—and for sheer power and ability, the Model VR-54-T is used in both tandem and triplex hook-ups for the most potent package of compaction tools available today.

ESSICK MANUFACTURING COMPANY

1950 SANTA FE AVE., LOS ANGELES 21, CALIF.

850 WOODRUFF LANE, ELIZABETH, NEW JERSEY

AFFILIATED WITH THE T. L. SMITH COMPANY, MILWAUKEE, WISC.



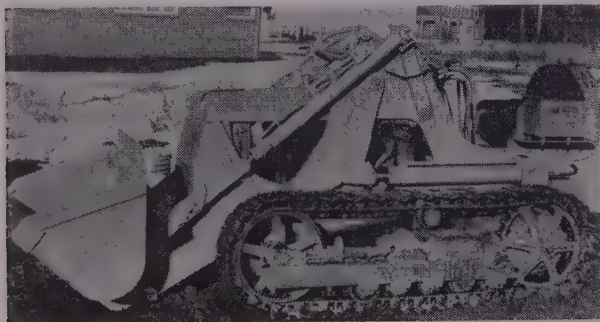
See manufacturer's detailed listing in Yellow Section

NEW EQUIPMENT

For your convenience in obtaining more information quickly, the manufacturer's address is provided with each review.

New Teale loader for Cat D-2's

A fast, new model loader for long, non-oscillating track Cat D-2's has been announced by Teale & Co., Box 308, Omaha, Neb. The TL-21 will lift a heaped $\frac{3}{8}$ -yd. bucket to full 9 ft. 10-in. height (at bucket hinge points) in about six seconds. Both loading and dumping actions have been speeded up. A new, heavy-duty bucket loads faster and rolls back a full 40 deg. at ground level for fuller loads. It delivers its deep angle dump without addition of numerous hinge points which cause additional wear and maintenance. The roll-action pry-out with 8,500 lb. of power assures fast, smooth breakaway.



WATER WAGON OF 5,150-GAL. CAPACITY

This water wagon was developed by Clarks Welding Works to provide both compaction and water for fill. It holds approximately 5,150 gal. of water and dumps in about 11 min. The unit has a low center of gravity and its construction features a tank built around the frame. This idea can be adapted to any type of rubber tired tractor. The above unit is also equipped with power steering to provide greater handling ease and more payloads per shift. Further information available from Clarks Welding Works, Folsom Blvd. at Perkins, Sacramento, Calif.

FLASH-R-LITE

BATTERY OPERATED
ELECTRIC WARNING
LITES

NEW APPROVED DUAL
HEAD
GREATER VISIBILITY

FLASH-R-LITE

is the modern barricade warning system. Visibility and no-fire-hazard means more safety to the public and protection for men and equipment. The rental plan saves money. Order barricades as needed; return them when not needed.



FLASH-R-LITE insures
safe control of traffic
in hazardous areas

New Model R-2 (Dual Head)



Flash-r-lite Corporation

1945 Blake Ave., Los Angeles 39, California
NOrmandy 4-1954

Oakland San Diego San Jose Fresno Santa Barbara Honolulu

Affiliate



Member

See manufacturer's detailed listing in Yellow Section

WESTERN CONSTRUCTION—January 1957

TREMENDOUS RIPPING TEAM



GREENVILLE RIPPER and INTERNATIONAL TD14, TD18 or TD24

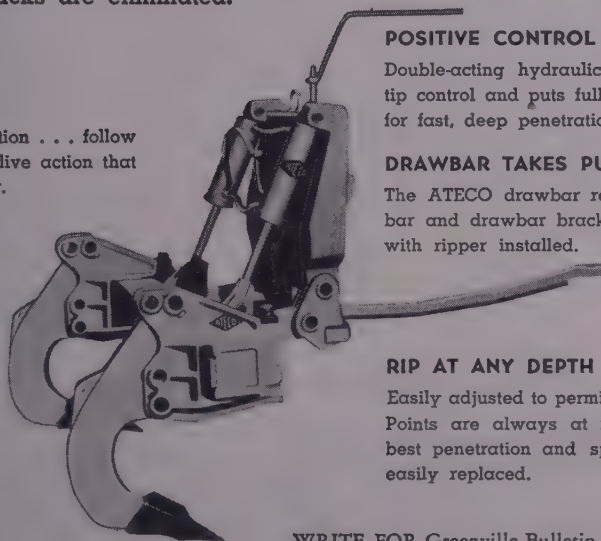
The tremendous power of the IH TD14, TD18 or TD24, plus the 10,000-pound Greenville tractor-mounted rock ripper shatter rock and packed earth for easy scraper loading. On many jobs explosives, shovels and trucks are eliminated.

LIVE SWIVEL ACTION

Shanks swivel 15° in either direction . . . follow tractor like a trailer. Points have live action that shatters rock like a jack hammer.

RUGGED POWERFUL SHANKS

Scientific contour gives extra strength at strain points and pulls points down deep . . . rocks roll out and clear of headframe. Made of tough, heat-treated, manganese-moly steel. Mount one, two or three shanks as needed.



POSITIVE CONTROL

Double-acting hydraulic system provides fingertip control and puts full tractor weight on points for fast, deep penetration.

DRAWBAR TAKES PULL

The ATECO drawbar replaces the tractor drawbar and drawbar brackets. Clevis is accessible with ripper installed.

RIP AT ANY DEPTH

Easily adjusted to permit settings as deep as 24". Points are always at most desirable angle for best penetration and splitting action. Points are easily replaced.

WRITE FOR Greenville Bulletin IH-156. It gives complete data on the Greenville-Ateco ripper.



GREENVILLE

STEEL CAR COMPANY

ATECO DIVISION
Greenville, Pennsylvania

See manufacturer's detailed listing in Yellow Section

Q. Say, Frank, what do you know about HyPOWER cylinders?



A. PLENTY...

We're using 'em for two good reasons...

First of all, Tom, HyPOWER'S are made for our kind of equipment. You know, rugged for tougher western conditions.

Secondly, HyPOWER cylinders are production made—in eleven types and over 300 diameters and strokes. That means a big saving to us over custom made cylinders.

And believe me we've made plenty of comparisons. These cylinders are tough—tougher than any cylinder we've ever used!

We like the fine points, too. Points like HyPOWER'S heavier cylinder walls and shafts ... simple but accurate stroke controls ... all-welded construction without staybolts.

But if you really want to know all about HyPOWER cylinders I suggest you write to the HyPOWER folks for their catalog. Would give you mine but engineering uses it constantly.

**TURLOCK IRON
& MACHINE WORKS**

TURLOCK, CALIFORNIA

HyPOWER

HYDRAULIC CYLINDERS

FACTORY REPRESENTATIVES: GREYER & GREYER
P. O. BOX 47 • STOCKTON, CALIFORNIA

See manufacturer's detailed listing in Yellow Section

Self-propelled drill rig

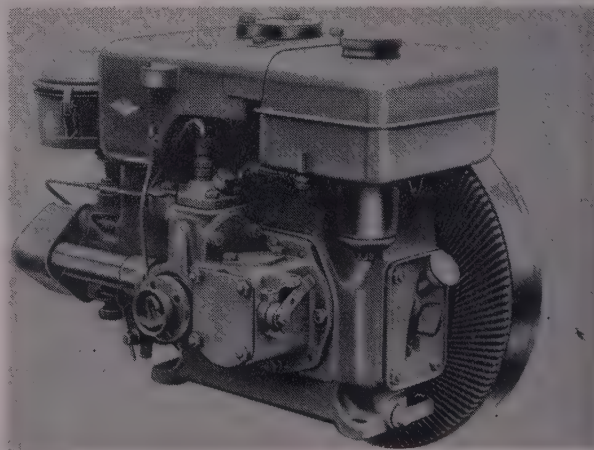
A self-propelled dual drill rig with a wide selection of drilling patterns is now being marketed by the Le Roi Division, Westinghouse Air Brake Co., Milwaukee 1, Wis. Available with heavy feeds and two sizes of drifter



drills, the T286 is designed for fast drilling speeds in hard formations and easy maneuverability over rough terrain. The new drill rig may be purchased with one or two Le Roi-Cleveland air feeds mounted on a crawler tractor powered with a 28-hp. gasoline engine. Diesel engines are also available in the tractor. Two 7-ft. arms, mounted on swivel heads, allow an arcing of the arms which provides a drilling pattern with a 24-ft. spread. The radius of turn of each arm is 220 deg. from the mounting posts. This variable drilling pattern from one sitting eliminates tractor positioning after drilling each set of holes. The upward and downward positioning of the arms is done by an air motor. The tractor can be used for light tractor work when not drilling by removing the arms from the mounting posts.

Low cost 6-hp. diesel engine is self contained, features power-saving cooling system

A unique 6-hp. diesel engine is now being introduced by the Lynn Engineering Co. The Farymann type EK full diesel four-cycle engine, rated at 6 hp. at 2,000 rpm, continuously, is a German import. The completely self-contained engine is simple, compact, weighs 187 lb. and measures 25 x 14 in. and 19 in. high. It is designed to



power pumps, generators, concrete mixers, air compressors, tractors, hoists, marine and agricultural equipment. Most outstanding is the flywheel condenser cooling system requiring no radiator, fan, or water pump. Instead, a closed water tank is cast integrally with main cylinder casting and water vapor is forced through flywheel

"It's good business to haul with WHITE"



Four different specialized White Truck models serve the Redwood Company of Denver in supplying sand, gravel and bulk cement to ready-mix concrete companies throughout Colorado.

— J. A. "Red" Miller
president
Redwood Company, Inc.
Denver, Colorado



Latest addition to the Redwood Company's growing fleet of Whites is this new Model WC-20, equipped with 5 yard body and hoist, 340 Cu. In. Mustang Engine, 3 Sp. Aux. Transmission and 9.00 x 20 single front dual rear tires.

"Construction schedules can't wait! With the stepped up consumption of concrete aggregates, carriers such as the Redwood Company must provide prompt, un-failing deliveries when materials are needed. To render this uninterrupted service to our customers, we find it *good business to haul with White Trucks*,"—reports Redwood's youthful president, "Red" Miller.

How does *your* equipment measure up to today's demands? Analyze it from every angle . . . cost, maintenance, dependability! Take a good look at your hauling problems, then look to White for the answers. Your local White Representative can show you in black and white why it's good business to haul with White. Call him today!

THE WHITE MOTOR COMPANY

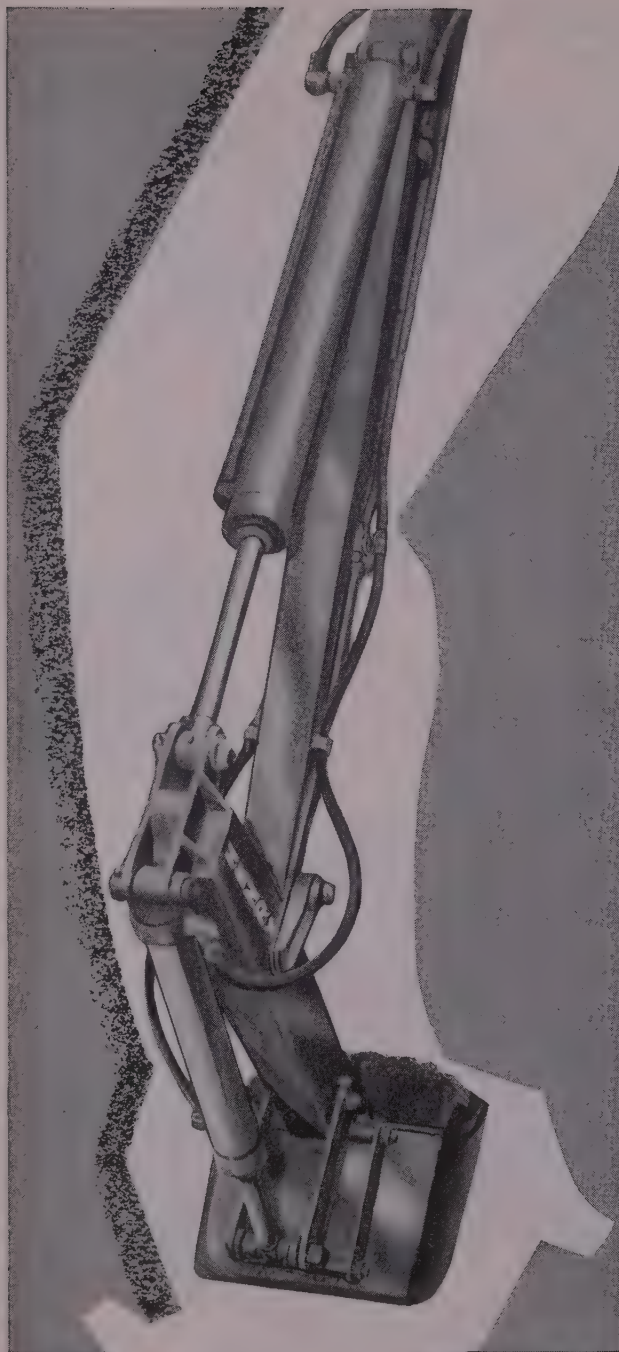
CLEVELAND 1, OHIO

Factory Branches, Distributors and Dealers Everywhere



FOR MORE THAN 55 YEARS THE GREATEST NAME IN TRUCKS

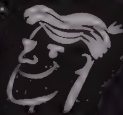
See manufacturer's detailed listing in Yellow Section



LIKE A STRONG RIGHT ARM

What muscles can do in hours, the new 1957 HENRY HYDRAULIC BACKHOE C-10H accomplishes in minutes. This powerful Henry never quits . . . it bites through hard ground with smooth multi-cylinder action. Selection of 16 bucket sizes, from 12" to 38".

You can do it BETTER with a HENRY!



MANUFACTURING COMPANY, INC.

1700 N. CLAY STREET • TOPEKA, KANSAS

COAST TO COAST SALES AND SERVICE

See manufacturer's detailed listing in Yellow Section

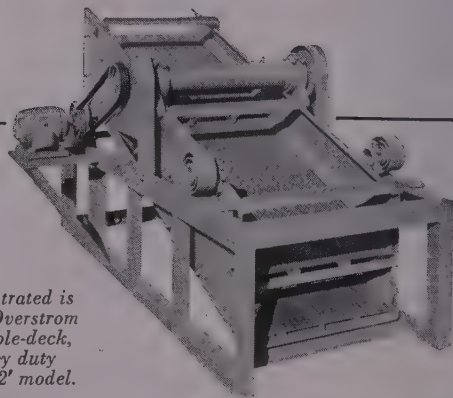
where it is condensed by air blast over flywheel and returned to water tank by centrifugal force. This requires about $\frac{1}{2}$ of 1% of total engine power as compared with up to 6% on conventional cooling systems. To cut engine wear, the wet type cylinder liner is nitrided and aluminum piston is fitted with chromed rings. German Bosch fuel pump and injector, with efficient fuel filter permits operation on stove oils or standard diesel fuels. For complete information, contact Lynn Engineering Co., Russ Bldg., San Francisco 4, Calif.

New Worthington paver has added power

Worthington Corp. of Harrison, N. J., announces the availability of a new Dual Drum road paver incorporating seventeen major design modifications and operational



features. The 34E Dual Drum is reported to be the fastest operating unit on the market with its engine speed now increased from 1,400 rpm. to nearly 1,800 rpm., supplying



Illustrated is an Overstrom double-deck, heavy duty 4'x12' model.

OVERSTROM VIBRATING SCREENS

HIGH OPERATING EFFICIENCY — LOW COST PER TON OF MATERIAL SCREENED

Overstrom Screens assure fast, accurate sizing and processing of either wet or dry material. Rigid accuracy in construction and simplicity of operation results in high efficiency and low cost per ton of material screened.

Illustrated above is an Overstrom double-deck, heavy duty 4'x12' model—one of the many single, double and triple deck units available for screening crushed rock, sand and gravel, limestone, cement, gypsum, borax, mining ores, salt, coke, etc.

Overstrom Screens can also be designed and engineered to meet your individual requirements. For detailed information, write:

Overstrom & Sons

2213 West Mission Road • Alhambra, California

See manufacturer's detailed listing in Yellow Section

WESTERN CONSTRUCTION—January 1957

added power for pulling out of heavy subgrades. New hydraulically operated steering brakes replace the foot-operated mechanical brake. Other features of the paver include a new four-strand chain drive to replace the old triple-strand drive, thus increasing the drive from the speed reduction unit to the countershaft, and a 700-gal. auxiliary water tank that has been redesigned to eliminate buckling due to water surge and the possibility of welds cracking.

Lima Roadpaver introduced

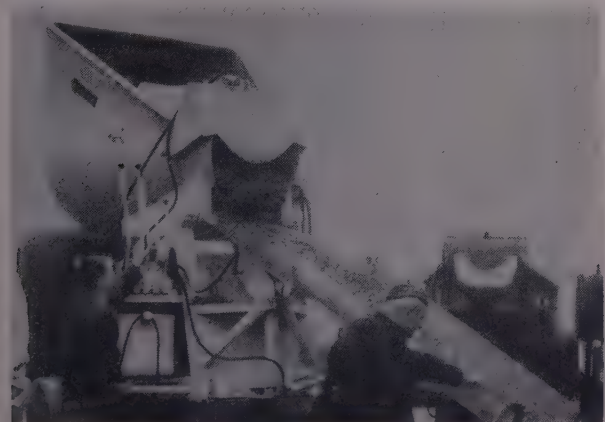
The Lima Works of Baldwin-Lima-Hamilton Corp., Lima, Ohio, has gone into production on a newly-developed unit designed as a compacting tool to prepare bases for road paving. The self-propelled Lima Roadpaver is equipped with six hydraulically driven, 420-lb. "shoes"



which provide a tamping and vibrating action on macadam bases, gravel sub-bases and soil-cement bases. Its advantages, according to the manufacturer, include flexibility and maneuverability, travel speed of 30 mph. and low maintenance because of sealed moving parts. The working width of the six shoes covers an area of 13 ft., 1 in. For narrower working areas, the outside or end shoes can be folded up under the frame in a few minutes' time. For fuller details, write the manufacturer.

Truck body hauls and places concrete on the job

A new truck body designed for hauling and placing central mixed concrete is being manufactured by the S. & M. Manufacturing Corp., 2901 W. Mill Rd., Milwaukee 9, Wis. Designed to combine the speed of loading



and discharge of dump trucks with the versatility of control and length of permissible haul of truck mixers, the Agitor can be loaded with 4 cu. yd. of concrete in four seconds, and can discharge the same batch of concrete in 35 seconds. The Agitor can also discharge slowly using

TECHKOTE

... products for Concrete

CONCRETE CURING COMPOUNDS

Clear — Pigmented — Black

TILT-UP COMPOUNDS

Wax Base — Non-Wax Base

LIFT SLAB COMPOUNDS

(YOUTZ-SLICK METHOD)

Wax Base — Non-Wax Base

SPRAY EQUIPMENT

Hand and Power Operated

JOINT-SEALING COMPOUNDS

(COLD APPLIED IN 3 TYPES)

Ready Mixed Rubber Base Mastic,
Rubber Base Emulsion and 2 Component Mastic

SEALING COMPOUND APPLICATORS

AIR-ENTRAINING AGENT

AIR-ENTRAINING AGENT DISPENSERS

AIR METERS FOR CONCRETE ENGINEERING

- Comply with all leading specifications
- Distributed and stocked in principal cities

DISTRIBUTORS

San Francisco, California, W. J. Burke & Co., Inc.
Sacramento, California, W. J. Burke & Co., Inc.
Los Angeles, California, W. J. Burke & Co., Inc.
San Diego, California, Squires-Belt Material Co.
Portland, Oregon, W. J. Burke & Co., Inc.
Seattle, Washington, W. J. Burke & Co., Inc.
Billings, Montana, Midland Materials Co.
Casper, Wyoming, Casper Concrete Co.
Denver, Colorado, K. C. Construction Supply Co.
Albuquerque, New Mexico, W. J. Burke & Co., Inc.
Salt Lake City, Utah, Intermountain Concrete Specialties
Phoenix, Arizona, Superior Building Materials
San Antonio, Texas, Rufus A. Walker & Co.
Honolulu, T. H., R. L. Castendyk Company
Vancouver, B. C., Canada, Burrard Construction Supplies, Ltd.

TO BE SURE . . .



USE THE FINEST!

TECHKOTE COMPANY
INCORPORATED

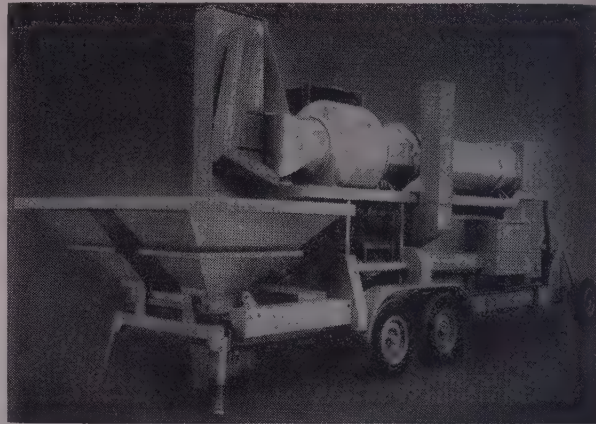
600 Lairport Street, El Segundo, California

the agitator as a means of feeding the concrete from the body into the chute. Very dry concrete of 1-in. slump or drier can quickly be discharged, and wet concrete of 5- or 6-in. slump can be agitated for the full 1½ hr. permitted under ASTM Standards for ready-mix concrete. The chute is completely power-operated, not only in controlling the height of the chute during discharge, but also in rapid unfolding and folding.

Wylie mobile asphalt plant delivers 20 tons per hour

A complete, self contained, fully automatic mobile asphalt plant that is ready to operate at the jobsite in minutes, is being produced by **Wylie Manufacturing Co., Inc.** The new Wylie Model 1520 Roadmaster delivers hot asphalt mix at the rate of 15 to 20 tons per hour. Self contained, it can be towed and set into position as a stationary plant or moved to a new location by dump truck. Twin aggregate hoppers hold more than a cubic yard

each, and with the reciprocating plate feeder, the coarse and fine aggregates are fed into the elevator boot. After the aggregate passes through the rotary dryer, it enters a weight-controlled aggregate batcher, and in turn is discharged simultaneously with a required proportion of



hot asphalt into the twin-shaft pugmill. Four low-pressure oil burners supply heat for the rotary dryer and the 400-gal. asphalt tank. All thermometers, gages and control levers are centrally located at the one-man operator position. The 1520 is available with gasoline or diesel engine, and mounted on six pneumatic tires with stabilizer jacks or on skids as a stationary installation. For complete details contact Wylie Manufacturing Co., Inc., P. O. Box 7086, Oklahoma City, Oklahoma.

New Lorain 56 has two-lever controls

A new model in the Thew Shovel Co.'s line of Lorain power shovels and cranes is the fully air-controlled, 1¼-yd. Lorain 56. Convertible to shovel, crane, clamshell dragline or hoe service, the 56 incorporates many new features, among them two lever controls for all turntable operations; power crawler controls; "Shear-Ball" mounting, eliminating center pin and nut, centering



gudgeon, turntable roller; and a lighter, stronger, longer, all-welded crane boom of a new material with square-tubular main chords and round tubular lacing. Crawlers 14 ft. long in widths of 11 ft. 4 in. and 13 ft. are available for the new model. Tread widths are 30 in. standard; 42 in. available. Shovel boom is 21 ft. long with 17-ft. stick and is equipped with air dipper trip and air crowd and retract. Hoe boom is 23 ft. long with 7-ft. stick. Five dipper widths from 36 to 48 in. Power for the new 56 is supplied by a Cummins diesel engine with torque converter and a disconnecting two-plate clutch. An 8-page, 2-color illustrated catalog of the new Lorain 56 is available from the manufacturer, Lorain, Ohio.

DURAJOINT
(POLYVINYLCHLORIDE)

The New Concrete Expansion Joint Waterstop That is Stretching Across the Continent

6 Inch DURAJOINT
3¾ Inch DURAJOINT
5 Inch DURASEAL

IT'S THE WATERSTOP WITH THE ADDED NEW FEATURES!

- ★ Made of Polyvinylchloride (P.V.C.)—Light—Flexible—Tough—Resists acids, alkalis.
- ★ Special Ribbed Design. Prevents Water percolation. Hollow Centre bulb gives adequate elongation in joint area and resistance to shear.
- ★ Cuts labour costs to a fraction. Easy to handle, quick and simple to splice.
- ★ Resists extreme water-heads.

STOCKING SUPPLIERS:

W. J. Burke & Co. in Seattle, San Francisco, Portland, Sacramento, Los Angeles and Albuquerque.

Salt Lake City: Intermountain Concrete Specialties.
Denver: K. C. Construction Supply Co.

For Free Samples and Literature Write:

TECON PRODUCTS, INC.

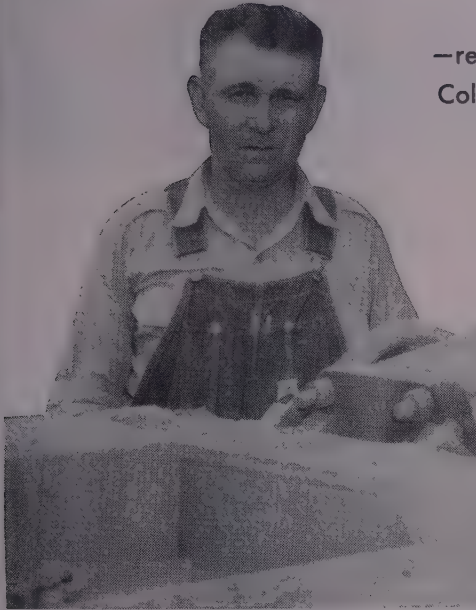
304 South Alaskan Way

Seattle 4, Wash.

See manufacturer's detailed listing in Yellow Section for advertiser on opposite page ➡

"We've standardized on Gar Wood-St. Paul!"

—reports A. L. Harris,
Columbia, Tennessee



Dependable Gar Wood-St. Paul Strong-Arm hoists are handling 24-ton payloads for Tennessee contractor A. L. Harris. "We've used Gar Wood-St. Paul hoists for years," says Harris, "but the new Strong-Arm design is the best yet for heavy-duty service. You can't beat it for fast, smooth dumping of big loads on rough grades."

Simplified Strong-Arm design pays off in faster, less expensive maintenance, too. "We've had no maintenance problems at all," reports Harris. "Our mechanic easily services our hoists with ordinary truck tools."

Gar Wood-St. Paul dump bodies are also known for rugged dependability. They're stress-tested to put strength where it's needed, eliminating excess weight. Match these advanced bodies with Strong-Arm hoists and you'll haul bigger payloads at lower cost per payload hour. Call your Gar Wood-St. Paul truck equipment distributor, or write direct to: Customer Service Dept., Gar Wood Industries, Inc., Wayne, Michigan.



Harris' fleet hauls 24-ton payloads of phosphate from a mine three miles away. The reserve capacity in Strong-Arm hoists pays off big on jobs like this.

GAR WOOD INDUSTRIES, INC. • Wayne, Michigan

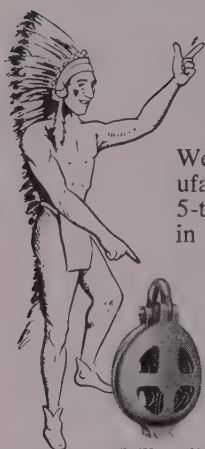
See Your Gar Wood - St. Paul Distributor

ERWIN H. JOHNSON, INC. Great Falls, Montana
THE SAWTOOTH COMPANY Boise, Idaho
STUDER TRACTOR & EQUIP. CO. Casper, Wyoming
WOEBER AUTO BODY & MFG. CO. Denver, Colorado
S. & M. SUPPLY CO., INC. Grand Junction, Colorado
CONSTRUCTION MACHINERY CO. Albuquerque New Mexico
ALLISON STEEL MANUFACTURING CO. Phoenix, Arizona
TRAILMOBILE, INC. Salt Lake City, Utah

SIERRA MACHINERY CO., INC. Reno, Nevada
FRUEHAUF TRAILER COMPANY Seattle & Spokane, Washington
FRUEHAUF TRAILER COMPANY Portland, Oregon
CALIFORNIA TRUCK & IND. EQUIP. CO. Bakersfield, California
RUCKSTELL CALIFORNIA SALES CO. Fresno, California
WIN WARD COMPANY Pomona, California
GAR WOOD INDUSTRIES, INC. Richmond & Vernor, California
UTILITY TRAILER SALES CO. San Diego, California

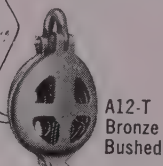
SMALL or **BIG** **SKOOKUM**

**BRONZE BUSHED OR TIMKEN BEARING
 BLOCKS FOR WESTERN CONSTRUCTION**



Western leaders since 1890 in the manufacture of construction blocks. Built-in 5-to-1 safety factor assures confidence in Skookum performance.

**WRITE for full information on
 Skookum construction blocks.**



**A12-T
 Bronze
 Bushed**



**T-8
 Timken
 Bearing**



**S-8
 Bronze
 Bushed**

We'll Build Anything in Blocks, Fairleads and Forgings.

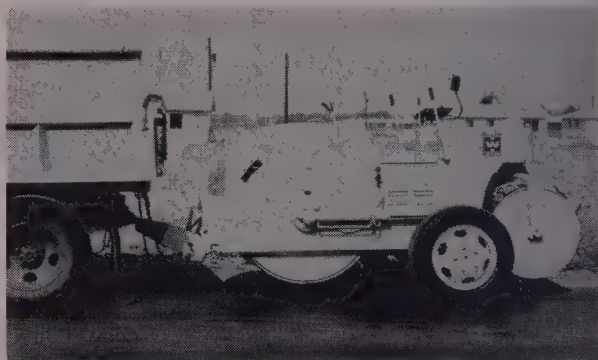
The SKOOKUM-CO., Inc.

**8524 N. CRAWFORD, PORTLAND, OREGON • 647 TERMINAL AVE., VANCOUVER, B. C.
 U.S.A. CANADA**

See manufacturer's detailed listing in Yellow Section

Retractable wheel attachment on tandem features fast conversion for towing

A power hydraulic retractable wheel attachment for converting its new 3-5 ton tandem roller to a highly portable unit is announced by **Huber-Warco Co.** of Marion, Ohio. Only three steps are required to change the unit



from its normal rolling position to a travel position for fast movement from job to job. (1) A lock pin is removed and the towing hitch is placed over the pintle hook of the towing vehicle. (2) The hydraulic control on the side of the machine is activated to lower the wheels and raise the guide roll of the roller. A few turns of a shaft at each wheel locks wheels in position. (3) A second hydraulic lever on the side of the roller is activated to raise the drive roll end of the roller. The towing hitch lock pin is then replaced and the unit is ready to be towed to a new job. The attachment can be either supplied already mounted on the Huber-Warco 3-5 ton tandem or it may be purchased later and be easily bolted on in the field.

Burmeister portable batching plant produces 100 cu. yd. per hour

A portable concrete batching plant with the capacity and accuracy of a permanent plant has been developed by the **L. Burmeister Co.**, 4535 W. Mitchell St., Milwaukee 14, Wis. It is the largest plant of its kind in use anywhere. Because no field wiring or plumbing is necessary and there are no pits to dig, the Porto-Plant can be



in operation within hours after its arrival on location delivering more than 100 cu. yd. per hr. All that is required is a source of water power. Physical components of the plant include a hinged aggregate bin complete with batchers and scales in position for over-the-road hauling, a portable belt conveyor on wheels, and a portable Burmeister Weighmeister batching unit. The entire unit when set up requires the attention of only one man who, through a centrally located electrical panel, operates every action with push buttons. The completely interlocked cycle makes it impossible to batch incorrectly. Further information available from the manufacturer.

SUPERIOR **CARPULLERS and BARGE MOVING WINCHES**

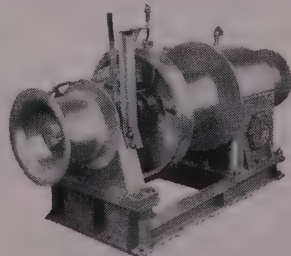
CAPSTAN TYPE • DRUM TYPE • SPECIAL TYPES



**Model SC Superior
 Capstan Carpuller**



**Model EP Drum
 Type Carpuller**



30 H.P. Electric Mooring Winch

Write for New 24 page CARPULLERS Bulletin C-616

SUPERIOR-LIDGERWOOD-MUNDY CORPORATION

**Main Office and Works: SUPERIOR, WISCONSIN, U.S.A.
 New York Office, 7 Dey Street, New York 7, N. Y.**

See manufacturer's detailed listing in Yellow Section

a great **NEW** mixer

ENGINEERED for tomorrow's "INSPECTION" TYPE concrete

*the truck mixer of tomorrow, available now
built especially for low slump concrete
fastest charging and discharging
carries up to agitator
loads without a door*



here's why

LARGER DISCHARGE OPENING... free-flow charging and discharging even with 0" slump concrete.

SHORTER, BIG DIAMETER DRUM... faster, thorough mixing and better weight distribution.

SMITH QUALITY... research, design and manufacturing combined to give long life, low maintenance and superb mixer performance.

Designed to handle the most critical mix under the most adverse conditions of charging, discharging and length of haul.

Choice of sizes... 4½, 5½, 6½ yards.

Front pto... or *Separate engine drive.*

Write direct for details.



Since 1900, the pioneer designer and foremost manufacturer of the world's finest mixers

THE T. L. SMITH COMPANY • Milwaukee 1, Wisconsin • Lufkin, Texas
affiliated with Essick Manufacturing Company, Los Angeles, California.

A-4009-1P

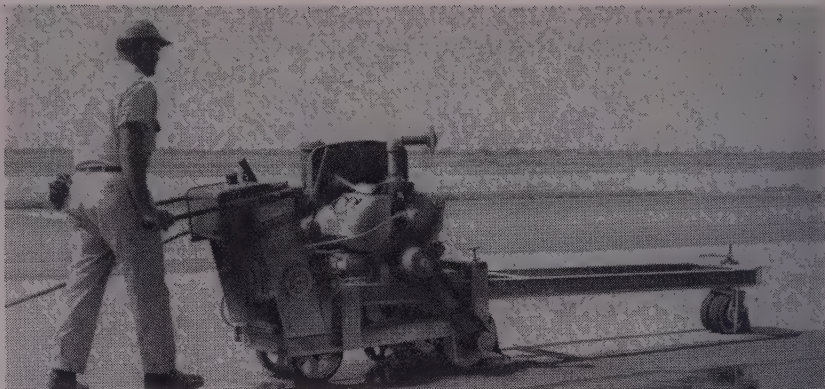
See manufacturer's detailed listing in Yellow Section

Lightweight electric plant

A new electric plant which weighs only 70 lb. and produces 1,200 watts is being marketed by **F. J. Galland & Co.**, 544 Market St., San Francisco, Calif. According to the manufacturer, the Tool King has ample power for 7-in. portable saws, 1-in. drills, and most other power tools. The unit is designed and priced to extend the labor saving benefits of portable electric power to out-of-the-way construction sites and to small or short duration jobs which do not warrant tying up a larger generator. The plant is available in 120-volt direct current and also for 6, 12, or 32-volt battery charging.

Latex emulsion for maintenance

Super-Bondsit, a new liquid latex emulsion for preparing versatile concrete toppings, has been introduced by **A. C. Horn Co., Inc.**, subsidiary of Sun Chemical Corp. Substituted for most of the mixing water used in cementitious mixtures, Super-Bondsit is designed primarily for use in resurfacing, reconditioning or repairing concrete surfaces. A typical $\frac{1}{4}$ in. thick application prepared with Super-Bondsit for use indoors or out is resistant to water, alkalis and intermittent acid spillage; a nonslip, nondusting and spark-resistant surface that will not chip. Super-Bondsit is recommended where failures in floor surfaces are caused by heavy



New machine eliminates bumps in road construction and maintenance

A new machine designed to eliminate bumps from concrete or asphalt surfaces has been developed by **Concrete Sawing Equipment, Inc.**, 331 North Santa Anita Ave., Arcadia, Calif. Called the Concut Precision Bump Cutter, this machine can also be used for removing painted markings, leveling bridge decks, and removing accumulated old rubber from runways. A 36-hp. engine drives the

cutting head of diamond impregnated saw blades, $16\frac{1}{2}$ in. wide, which leaves a rough non-skid surface on the surface similar to a burlap finish. The finished surface can be imported with almost any degree of roughness by varying the size of the spacers between the diamond cutting blades. Estimated cost for bump cutting should be between 5 and 10 cents per sq. ft.

traffic or adverse weather conditions; also for covering cracks and trowel markings. Specifications, descriptive literature and instructions for applying are available from **A. C. Horn, Inc.**, 252 Townsend St., San Francisco, Calif.

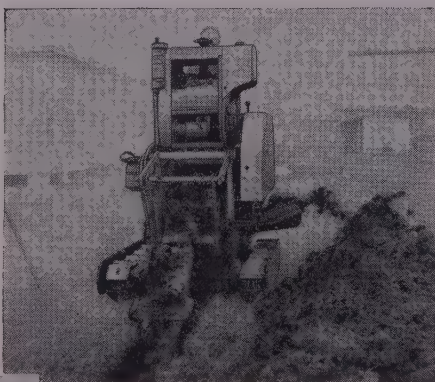
Heavy-duty rock body

A new rock body, designed to withstand the severe shocks imposed by power shovel, chute and conveyor loading of ore, rock and other abrasive materials, is announced by **Galion Allsteel Body Co.**, Galion, Ohio. Offered in 6 to 15-cu. yd. capacities, the new bodies feature $\frac{1}{4}$ -in. steel plate construction in sides, floor and head. A $\frac{1}{4}$ -in. wear plate over a 2-in. hardwood cushion protects the body floor while a 4 x 4 x $\frac{1}{2}$ -in. reinforced top roll minimizes shovel and loading damage to body sides. For especially severe service, $\frac{5}{16}$ or $\frac{3}{8}$ -in. body shells and wear plates are available. Horizontal and vertical box braces extending up under the top roll bolster side strength and prevent bulging. Galion rock bodies are designed for mounting on Models 880 or 1000 underbody and Model 77379 telescopic hoists. Capacities range from 15 to 25 tons. Detailed information available in catalog K-122.

"OVER 2500 FEET OF LOW COST DITCHING IN LESS THAN 5 HOURS"

"I use my 4T Pow-R-Ditcher for foundation cuttings and footings. Also install water lines. Used it to cut 2500 feet of ditch in less than 5 hours for Phillips Oil Co. It is small, rugged, very maneuverable and does a superior digging job even in sticky gumbo soil. Very easy to transport from one job to another in a pickup truck."

C. C. Bost
BOST DITCHING SERVICE
Friendswood, Texas



ONLY 48" WIDE, 6' HIGH, 13' LONG
An ideal machine for laying gas pipe, service lines and digging home foundation footings. This rugged "Midget Ditcher" digs 6" to 14" wide and down to 4 $\frac{1}{2}$ ' deep. Thousands in use. Same size moving parts as larger Pow-R-Ditcher Models. Write for complete information on the complete Pow-R-Ditcher line.

Some Excellent Distributor
Territory Available!



New industrial coupler for lightweight portable pipelines

The first industrial coupler for portable aluminum pipelines that will withstand pressures up to 1,000 psi, and is available in OD and IPS pipe sizes, has been developed by the **John Bean Division, Food Machinery and Chemical Corp.**, San Jose, Calif. According to the manufacturer, tests have shown the new lightweight pipelines can be moved from six to ten times faster than older types of portable pipelines. Heavy bracing jaws secure the coupler with a quarter turn. A lock screw spins up in an instant and locks the coupler against untwisting through line

VERMEER MFG. CO., Pella, Iowa

See manufacturer's detailed listing in Yellow Section

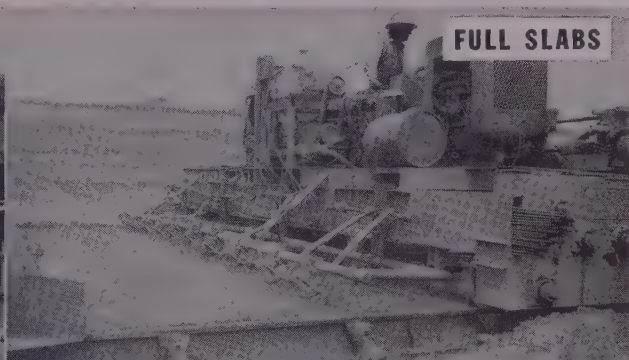
Vibrate your way to higher profits with... Maginniss Hi-Letric Concrete Vibrators

STRUCTURES



MAGINNISS CONCRETE VIBRATORS speed up pours, cut labor costs, produce blemish-free concrete. Two 180 cycle, 120 volt models, HCV-3 for bridge, pavement and building work; HCV-6 for massive structures. Powered by choice of nine different gasoline or electric driven generators. (Uni-lectric 110 volt universal motor vibrators for smaller jobs, too.)

FULL SLABS



MAGINNISS INTERNAL FULL SLAB VIBRATOR ATTACHMENT provides uniform vibration of entire slab, boosts production, reduces finishing to one pass. 180 cycle induction motor-in-head vibrators, fully adjustable for any spacing, and for depths of 4 to 19 in. Powered by compact, lightweight engine-generator. Fits all makes of paving machines.

SIDE FORMS



MAGINNISS SIDE FORM VIBRATOR ATTACHMENT fits all makes of paving machines. Prevents honeycomb, eliminates hand labor, speeds production. 180 cycle induction motor-in-head vibrators, fully adjustable for depth and spacing, choice of instant manual or hydraulic retraction. Generator also powers floodlights and service tools.

PAVEMENT WIDENING



MAGINNISS PAVEMENT WIDENING VIBRATOR ATTACHMENT fits any widener, eliminates need for accessory vibrating screed or for hand finishing. 180 cycle induction motor-in-head vibrators in hopper plasticize stiffest concrete . . . permit production rates up to 25 fpm on slip-form paving. Generator also powers service tools, floodlights.

On jobs where profit-conscious contractors are at work, you'll find Maginniss Hi-lectric vibrators in action!

See us at CONDEX,
Booth 215

That's because powerful Hi-lectric vibrators with induction motor-in-head design, produce up to 10,500 VPM . . . cut placing time . . . produce sounder, better looking concrete at lower cost.

In 85 principal cities



Find your nearest
distributor in the
'Yellow Pages'

Whether you're pouring footers, building structures, paving highways or airports, it'll pay you to investigate—and use—the profit-boosting features of Maginniss Hi-lectrics. You'll find that Hi-lectric vibrators offer true one-man operation . . . that they have no cumbersome, hard-to-maintain flexible shafts . . . that they provide plenty of power to handle stiffest concrete mixes with ease.

Whatever your concrete vibrating needs may be, your nearby Maginniss distributor can recommend . . . and supply . . . Hi-lectric vibrators and generators exactly suited to your requirements. Get all the facts today!

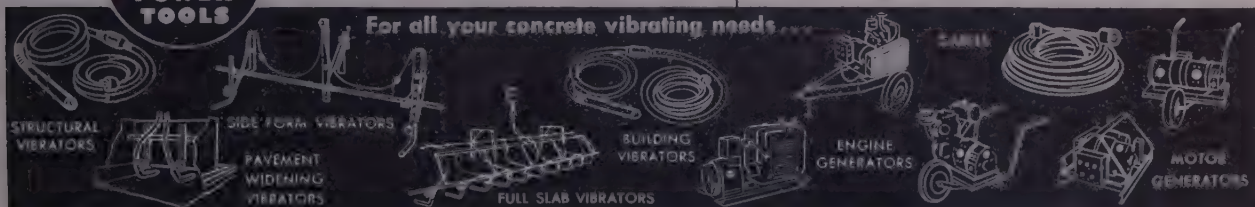
AA-4522

Maginniss
HI-LECTRIC
POWER TOOLS

MAGINNISS

Power Tool Company
154 Distl Avenue, Mansfield, Ohio

For all your concrete vibrating needs

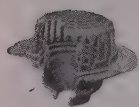


See manufacturer's detailed listing in Yellow Section

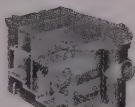
2 ways to select

DRAINAGE PRODUCTS

for any type
of project

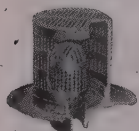


Series No. 4110
Roof Drain

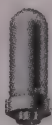


Series GA
Oil Interceptor

You who have the job of selecting the drains for any project . . . or who are engaged in writing plumbing drainage specifications for any building can approach this work in one of two ways.

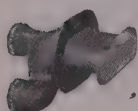


Series No. 0100
Track Drain



Series No. 1480
Shock Absorber

1. The hard way is to spend the necessary time and effort in locating the right type of information . . . analyzing pages of data . . . making comparisons—before a selection is made.



Series No. 0700-B
Pool Fitting



Series No. 0300-R
Ramp Drain

2. The easy way is to call on Josam, knowing that Josam has the widest range of plumbing drainage products in the world . . . and can give you the answers you want in a moment. Since there are so many important jobs to do—why take valuable time selecting drains. Call Josam on every job. Send coupon below—and get acquainted with the Josam line. No obligations.



JOSAM PACIFIC CO., DEPT. WC
765 Folsom St., San Francisco, Calif.

Please Send Manual "SK."

Firm

Name

Address

City Zone State

torque. No metal part of the coupler is exposed to the material within the line; a special aromatic resistant Buna-N gasket is placed so that there is almost no disturbance of flow to create friction losses. The gasket is pressure sealing.

Michigan excavator-crane has 15-ton capacity, Clark Power Train

A completely new redesigned truck, incorporating the Clark Power Train is featured in the Michigan Model T-20 excavator crane introduced by the Construction Machinery Division of Clark Equipment Co., Benton Harbor, Mich. It has a gross vehicle weight of 42,300 lb., with full crane



equipment, and can be reduced to 27,600 lb. for highway travel by removing rear outriggers, crane boom and counterweights. For steel erection the T-20's maximum boom length is now 80 ft. with jib booms 10-15 ft. in length. The truck power train consists of a five-speed transmission, a two-speed transfer case and planetary wheel driving axles, all Clark-designed and built. With a 134-hp. gasoline chassis engine, the maximum travel speed is 35 mph. Hydraulic steering booster and all-wheel air brakes provide ease and safety of operation.

Hydraulic piston pump

A new hydraulic piston pump in the low price range of gear and vane type pumps has been announced by Dynex, Inc., 1500 South Muskego Ave., Milwaukee, Wis. The pump, Series PF-3006, is designed especially for construction machinery, materials handling devices, aircraft and agricultural equipment, test stands and presses, and has a 3,000-psi. maximum intermittent pressure and a rated pressure of 2,000 psi. Pressures developed by the new piston pump permit design engineers to reduce the size of oil lines, fittings, valves and cylinders that make up a complete hydraulic system. Fitting adapters

are available with SAE straight threads or pipe threads. Shaft rotation can be in either direction and the unit can be mounted in any position.

Deutz air-cooled turbocharged diesel engines now available

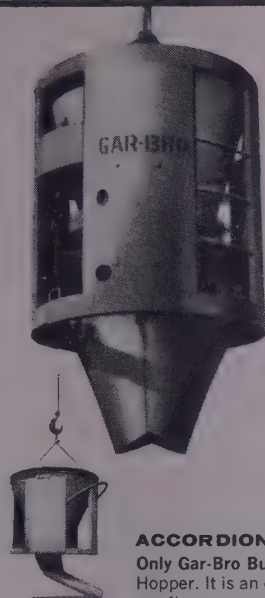
Diesel Energy Corp., sole U. S. importer of all Kloechnner-Humboldt-Deutz, AG. products, announces completion of the new Deutz air-cooled exhaust turbocharged diesel engine. Two models are presently available. The 8-cylinder has an automotive bare engine rating of 210 hp. at 2,300 rpm. and weighs less than 2,000 lb. The engine has a bore and stroke of 4.38x5½; a cubic inch displacement of 649.3. The other model is a 12-cylinder with a bare engine rating of 310 and weighs less than 2,900 lb. Its cubic inch displacement is 937.9. The bare engine rating includes the cooling blower. The new Deutz air-cooled exhaust turbocharged diesel engines are especially advantageous for high altitude operation of trucks, construction machinery, pumping sets, diesel electric sets, etc. No draining of water is necessary with Deutz air-cooled diesel engines, and no anti-freeze is required. For more details write to R. D. Friedlander, General Sales Manager, Diesel Energy Corp., 82 Beaver St., New York 5, N. Y.

Power roller uses vibration instead of static weight

A new power roller using vibration instead of static weight has recently been introduced by Rolcor Industries, Minneapolis 3, Minn. Weighing 1½ tons, it will produce the same compaction density as deadweight roll-



ers weighing 8 to 10 tons. The vibrating mechanism, consisting of eccentrically weighted parallel shafts 36 in. long mounted on self-aligning bearings, produces a dynamic vertical thrust of 2,936 lb. 2,400 times per min. Ground vibrations are controlled in direction and can be felt within a variable radius of 24 ft. Densities of 105 on sand fills and 136.8 on high-type hot mix asphalt are easily accomplished. Named the Vibrapac the unit is priced at \$1,495.



ROUND CONCRETE BUCKETS

Select from 17 models of Gar-Bro Buckets ranging from $\frac{1}{2}$ to 8 cu. yds. There are types for handling any concrete from normal slump to the driest low slump. All have Gar-Bro patented, self-closing, double clamshell gates—they are non-jamming and grout tight. Large buckets have air-operated gates with pull chain or remote control.

ACCORDION RUBBER HOPPERS (Patented)

Only Gar-Bro Buckets can be equipped with an Accordion Hopper. It is an exclusive patented bucket attachment that confines concrete when pouring into narrow forms. It fastens directly to gate and opens and closes with the gate.



Extended Gate Type



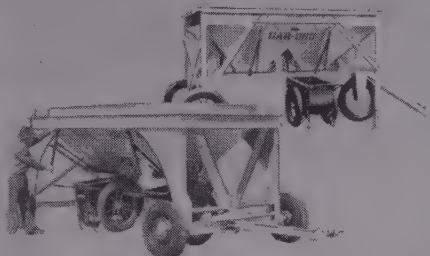
Vertical Discharge Type



Heavy Duty Type

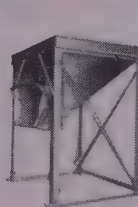
LAYDOWN BUCKETS

They lay down and roll over to a low loading height and automatically resume a vertical position when lifted. 16 standard models ranging from $\frac{1}{2}$ to 3 cu. yds. of three types to suit any job.



PORTABLE HOPPERS

6 Models with three types of mountings are available in the Gar-Bro line. They save truck mixer waiting time and prevent delay of the cart crew and finishers. Have low (70" to 75") loading height and 36" clearance for cart loading.



RECEIVING AND FLOOR HOPPERS

16 Hopper Units with capacities from 1 to 5.3 cu. yds. are convertible from a Receiving Hopper to a Floor Hopper by use of leg stands. Both vertical front and center discharge type are available in single or double gate types.

Only GAR-BRO offers

A COMPLETE SELECTION

of concrete handling equipment

ONLY GAR-BRO SPECIALIZES in concrete handling equipment. And only Gar-Bro has a complete line of more than 300 equipment items to give you a complete selection of types and sizes to suit your concrete placing job. Gar-Bro's 30 years of experience makes a big difference in the ease of operation... in the efficiency... and in the extra advantages of Gar-Bro equipment for concrete handling—there is no substitute.

GAR-BRO MANUFACTURING CO. Los Angeles, Calif. • Peoria, Ill.
GENERAL OFFICES: 2415 E. Washington Blvd., Los Angeles 21, California



CONCRETE CARTS

All carts are not the same. Gar-Bro Carts are "balanced" — when loaded... easier to push... easier to handle... 3 sizes: narrow and standard 6 and also 8 cu. ft., rocker dumps.



COLLECTION HOPPERS

A Choice of 87 Items are available in Gar-Bro's line of Collection Hoppers and Concrete Chutes. Each is engineered by concrete handling experts to answer any concrete placing problem.



POWER-CART

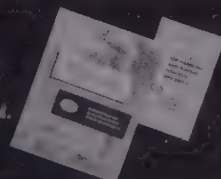
Designed for Concrete Handling and for faster, safer operation on temporary runways. Handles 12 cu. ft. ... turns in 4' radius ... controls dumping ... operates on 2 gal. of gas per day. Light and fast either forward or reverse.

Designed
with
concrete
in mind...

GAR-BRO

The world's most
complete line of
**CONCRETE
HANDLING
EQUIPMENT**

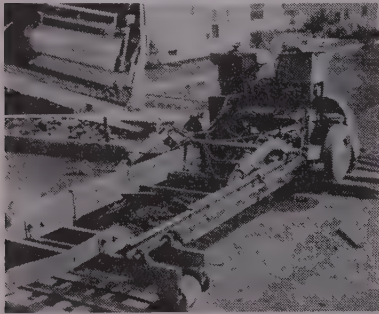
Write for catalog
and Concrete
Handling Manual.



See manufacturer's detailed listing in Yellow Section

Automatic curb and gutter builder

A new automatic curb and gutter builder capable of forming monolithic or integral roll-type curbs on paving jobs at the same time that the main slab is poured, has been announced by **General Road Machines, Inc.**, Niles, Ohio. A hydraulically-



driver curb forming roll, spinning at 300 rpm., profiles the gutter line and forms the curb as the machine travels along the forms behind the main paving equipment. Concrete for the curb is left along the high side of the slab by an accessory offset screed attachment on the finisher operating ahead of the curb builder. General automatic curb and gutter builders are offered in widths of 10 to 15, 12 to 18½, 20 to 25 and 18 to 25 ft. Other widths are available on special order. Powered by a 12-hp., 2-cylinder, air-cooled engine, the automatic curb builder is hydraulically driven with travel speeds variable from 0 to 40 ft. per min.

Long booms for second floor jobs

A long boom that hands building material right up to second floor jobs has been developed by the **Henry Manufacturing Co.** Called the High Lift Utility Boom, it is now available for use with most Henry industrial tractor shovels, and comes equipped with a swivel hook with clevis. Attachments include a material fork and a concrete and mortar hopper with ½-cu. yd. capacity. Adjustable in 1-ft. steps from 11 to 16 ft., the High Lift Utility Boom telescopes



down into the main support frame. A sturdy pin locks it in place. Fully automatic, the unit works from the tractor shovel controls and attaches easily to most Henry shovels. For further information, write to Henry

Manufacturing Co., 1700 North Clay St., Topeka, Kan.

Earth-boring machine on turntable base

A truck-mounted earth-boring machine with hydraulic turntable base and swivel action that permits operation at any angle over a full 180-deg. arc without having to move the truck itself is one of the latest additions to the line of **Highway Trailer Co.'s** Utility Division. Hydraulic extension action also gives the earth borer an extra 22-in. reach within its operational radius. The unit is capable of digging holes from nine to 36 in. in diameter and up to 10 ft. in depth—in any soil and on any level. The swing base earth-borer can be mounted either on a single rear axle or tandem truck. Highway Trailer Co., Edgerton, Wis.

Whiteman twin finishing machine

A full 5 ft. width of concrete can be finished in one pass with the new Whiteman "Twin" Floating-Finishing machine. This large, heavy-duty unit employs two sets of counter-rotating trowels, enabling it to cover large areas in half the time. The counter-rotating action prevents torque and provides smoother, easier operation according to the manufacturer, **Whiteman Manufacturing Co.**, 13020 Pierce St., Pacoima, Calif. The wide pattern shows up and corrects irregularities instantly. The new Whiteman "Twin" is equipped with combination trowels for either floating or finishing. Trowel pitch adjustment is easily made with a knob at the top of the handle with the machine in motion. The machine is equipped with ball-thrust bearings to make trowel adjustment easier and with Timken bearings in the gear case.

New construction signs

A full 5-ft. width of concrete can signs and equipment designed for construction projects has just been announced by **Eastern Metal of Elmira, Inc.**, Elmira Heights, N. Y. Designed to help prevent accidents which occur in construction and repair projects, the brightly colored signs have a large variety of legends. The signs are lettered strictly in accord with recommendations of the U. S. Dept. of Commerce and are made in compliance with official American Standards Association specifications. Built for rugged service, the EM signs are made with steel and have a flexible baked enamel finish to resist weather, vandalism, stone bruises and other destructive elements. Representative groups of Eastern Metal signs are illustrated in color in a descriptive brochure, so the signs can be seen exactly as they are. Copies of the brochure may be obtained by writing to the company's Traffic Sign Division.



Symons Forms Help Speed College Job

Williams and Burrows, Inc., Belmont, California, contractors for the \$4,000,000 new buildings of the College of Holy Names, selected Symons Forms with steel cross members to help speed construction. Symons Forms were used in many places where ordinary forms were not adaptable. Other important reasons for using Symons Forms are that they can be erected and stripped fast, and can be used again and again.

Let us provide you with further details on how Symons Forms and Service can help you save on your forming costs. Send us the plans for your next job . . . our engineers will prepare a complete form layout, bill of materials, and make recommendations for the most efficient method of forming.

Symons Forms can be rented with purchase option. Symons Clamp & Mfg. Co., 634 Williams Street, San Leandro, California. Phone: Lockhaven 9-9159.

See manufacturer's detailed listing in Yellow Section

Truck loader has self-loading bucket

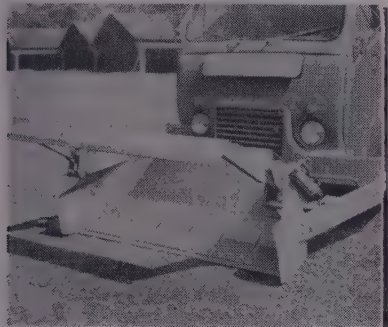
A new truck loader featuring an unusual self-loading bucket is being produced by the **M-B Corp.**, New Holstein, Wis. The new M-B unit has a patented hydraulically operated jaw that swings down and reaches out to meet ground level approximately 13 in. forward of the lip of the bucket. The jaw completes its closing cycle by pulling in and holding the full load bite in the bucket. The powerful jaw action of the self-loading bucket eliminates the necessity of ramming the truck into a stockpile to obtain a full bucket. Consequently, there are no shock loads on the truck, its frame or shovel mechanism. Two sets of hydraulic rams operating in



Dumpcrete body redesigned for increased flexibility

Dumpcrete, a truck body specially designed to haul concrete, without agitation, from central-mixing plant to paving, structures or heavy construction job, has been redesigned for increased flexibility by the Manufacturing Division, **Maxon Construction Co., Inc.**, Dayton 1, Ohio. The new double-duty body can be mounted on light, single-axle trucks to handle up to 4 cu. yd. or on tandem-axle trucks to handle loads up to 6 cu. yd. Features of the body include a jackknife

chute that swings in a 180-deg. angle with 90-deg. dump angle for clean discharge; controlled discharge of full load in 30 sec. or 30 min.; one-man operation; all-welded high tensile steel body that is completely watertight. Simple removal of chute and gate assembly changes Dumpcrete into an all-purpose utility body that can be used to haul gravel, sand, water and dirt. Prices, specifications and literature available from the manufacturer.



unison provide full hydraulic power and control throughout the entire cycle. Two hydraulic cylinders on the bucket operate the closing action of the jaw. The M-B Loader is designed to fit almost all types of trucks. Heavy duty bucket capacity is $\frac{1}{2}$ cu. yd. with larger buckets available for special jobs.

Lightweight portable scaffold

The Jim Dandy, a new hydraulic, self-contained, portable scaffold is announced by the **Adam Co.**, P. O. Box 628, Perry, Okla. Designed to completely eliminate all costly,



wasteful set-up and knock-down time, the Jim Dandy has proved practical for both large and small contractors. Versatile, lightweight, economical to operate, this machine elevates loads of 2,500 lb. to 16 ft. and has ample platform space for several workmen.

1957 line of Herman Nelson portable space heaters

Seven additional improvements stressing safer operation and simpler controls are featured in the 1957 line of Herman Nelson Portable Space Heaters. The new line includes both oil and gasoline fired units in capacities from 50,000 to 450,000 btu. per hour. The low-cost "Thrifty" model is powered with a $\frac{1}{3}$ -hp. electric motor. The "Utility" model features optional power plants, quickly interchangeable between gasoline engine and electric motor. The "De Luxe" is an all-automatic unit with optional, remote temperature control. **American Air Filter Co., Inc.**, 215 Central Ave., Louisville 8, Ky.

New direct-drive pump for ATECO HR-D9 ripper

Designed to maintain constant hydraulic control pressure, a new direct-drive ATECO pump for the ATECO tractor-mounted rock ripper is now available for Caterpillar D-9 tractors. The pump is mounted at the engine power take-off just ahead of the clutch and transmission assembly, where it receives constant power while the engine is running. Hydraulic control pressure is thus maintained without interruptions due to clutch action, or to speed reduction through the torque converter. Use of flexible rather than rigid high-pressure piping eliminates joint leakage due to vibration, and permits easy access for tractor clutch adjustment without disassembly. The ATECO direct-drive pump is offered

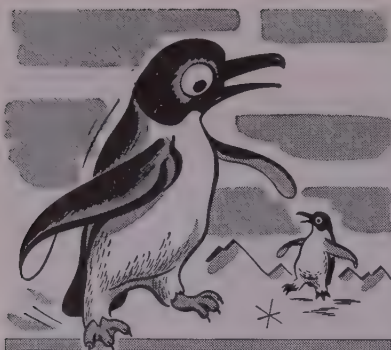
as optional equipment on all new HR-D9 ATECO rock rippers, and will be available in kit form for conversion of HR-D9 units now in use throughout the world. Specifications and prices obtainable from **American Tractor Equipment Corp.**, 9131 San Leandro Blvd., Oakland 3, Calif.

Hydraulic pump attachment for IH 300 utility tractor

A new front-mounted power take-off hydraulic pump attachment has just been announced by **International Harvester Co.**, 180 N. Michigan Ave., Chicago 1, Ill. It is recommended for



the International 300 utility tractor when used with heavy-duty industrial equipment such as loaders, backhoes, and hydraulic motors. The new pump attachment comes in either a 16 or 23-gal.-per-min. size and connects directly into regular hydraulic system of the tractor. It is available either as a factory installation on new tractors or for field application on tractors already in use.



**LOW TEMP
LUBRIPLATE**

*** Best for
Sub-Zero
Lubrication**

Highly recommended for general grease applications on all types of machines operating at very low temperatures. Remains plastic at temperatures as low as 70° F below Zero and has a Melting Point of 270° F. Possesses high film strength and is of a consistency that meets all requirements. Can be easily applied through grease guns or by other means of application. Low TEMP LUBRIPLATE is waterproof and will protect automotive and other types of equipment against the unfavorable effect of salt or calcium chloride as used on highways during winter months.

**REGARDLESS OF THE
SIZE AND TYPE OF
YOUR MACHINERY,
LUBRIPLATE
LUBRICANTS WILL
IMPROVE ITS OPERA-
TION AND REDUCE
MAINTENANCE**



LUBRIPLATE DIVISION, Fiske Brothers Refining Co.
Newark 5, N. J. or Toledo 5, Ohio

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Bart-Sayer Co., El Centro, Calif.
Garlinghouse Brothers, Los Angeles, Calif.
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Miller & Stern Supply Co., San Francisco, Calif.
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Sawtooth Company, Boise, Ida.
Paul Roberts Co., Pocatello, Idaho
Industrial Lubrication Supply Co., Eugene, Ore.
Mey & Van Dyke, Inc., Klamath Falls, Ore.
Goodyear Rubber & Asbestos Co., Portland, Ore.
Industrial Supply Co., Billings, Mont.
Utah Oil & Steel Service Co., Midvale, Utah
Western Sales Engineering Co., Salt Lake City, Utah
Campbell Industrial Supply Co., Seattle, Wash.
Nott-Alwater Company, Spokane, Wash.
Campbell Industrial Supply Co., Tacoma, Wash.
Dodge-Yakima Supply Co., Yakima, Wash.
Fleck Brothers, Ltd., Vancouver, B. C., Canada
Wilkinson & McClean, Ltd., Calgary, Alberta, Can.

LUBRIPLATE
THE MODERN LUBRICANT

News of DISTRIBUTORS

New distributorship

General Road Machines, Inc., Niles, Ohio, announces the appointment of Ferguson & Blakemore Machinery Co., Oakland, Calif., to serve the west central section of California with the company's entire line of road paving equipment.

Sales appointment by Holland

Jack Holland, president of Holland Equipment Co., distributor of construction and industrial supplies, announces the appointment of Robert K. Hawkins as sales representative for the area south of Salt Lake City



**Robert K.
Hawkins**

and in eastern Nevada. Hawkins has been affiliated with sales of heavy equipment in the Intermountain region for over two years. The Holland company which serves Utah, southern Idaho, western Wyoming, and eastern Nevada, now represents some forty national construction and industrial manufacturers.

Noble appoints Northwest rep

Clyde Equipment Co., Portland, Ore., was recently appointed distributor for the Noble Company of Oakland, Calif. Clyde will cover all of Oregon and the southern counties of Washington, bordering the Columbia River.

Officers named for Alaska firm

With the incorporation of the Northern Co. of Anchorage, Alaska, the following were named officers in the new corporation: H. A. Faroe, president; Mrs. D. A. Faroe, secretary-treasurer, and John Bagoy, vice president.

Cleaver-Brooks names distributor

C. H. Grant Co., Oakland, Calif., has been appointed manufacturer's representative for the sale of Cleaver-Brooks asphalt heating and pile-driving equipment. The Grant Company specializes in the field of road building equipment and can assist in the setting up of complete as-

phalt heating plants in their territory which is in 45 counties in the San Francisco Bay area.

Cramer takes on man at Eugene

Cramer Machinery Co., Portland, Ore., announces the appointment of Rollin Deck to assist George Groom in the management of the company's Eugene store. Deck is well known in southern Oregon as he had been associated with the Balzar Machinery Co. in that territory for the past several years.

Scoot-Crete representative chosen

Appointment of Lewis E. Langdon, Seattle, Wash., as authorized West Coast representative for Getman Brothers, South Haven, Mich., manufacturer of the Scoot-Crete dump truck, is announced. Also announced is that General Machinery Co., Spokane, Wash., and Oregon Rental & Equipment Sales Co., Portland, Ore., have been appointed authorized distributors for the Scoot-Crete.

So. Calif. distributor adds two

Concrete Tie & Anchor Co., Los Angeles, has been appointed exclusive distributor for the Hogan Co., Riverside, Calif. According to the announcement by M. A. Peters, president, his firm will handle sales and rentals of Hogan's curb and gutter forming equipment in the Southern California area. Concrete Tie also recently took on the Ashford Formula by Alkali Neutralizer Co., Glendale, Calif.

Shepherd promotes and appoints

Martin R. Kohlbray has been promoted to the position of sales promotion manager for Shepherd Machinery Co. of Los Angeles. Gene A. Sheley has been appointed to the position of assistant promotion manager.

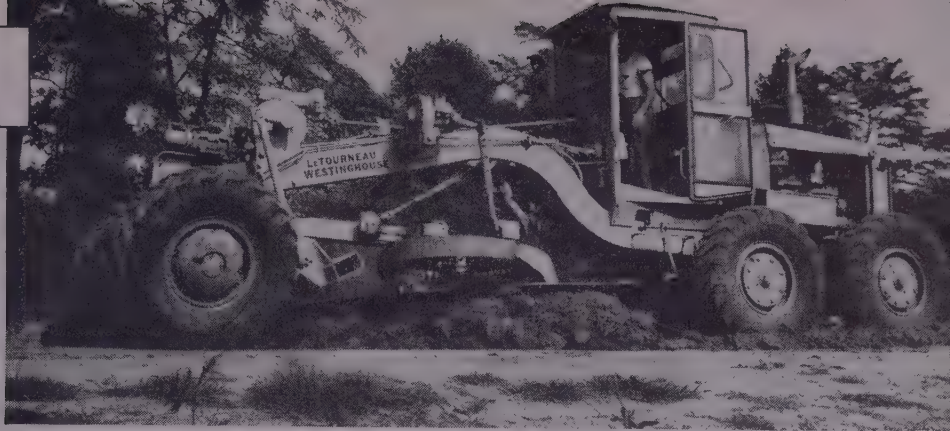
Essick appointed for Bantam line

Essick Machinery Co., Los Angeles, has been appointed as exclusive distributor for the Schield Bantam Co., Waverly, Iowa. Essick, with a branch office in Santa Ana, will serve the California counties of Inyo, San Bernardino, Riverside, Imperial, San Diego and Orange, as well as Clark County in Nevada.

Watson & Meehan opens new branch

Watson & Meehan's new branch at Sacramento, Calif., is now open, with C. A. "Curt" Knifsend in charge. Located at 3100 West Capitol Ave.,

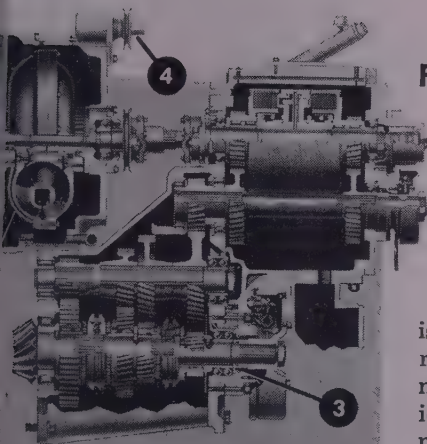
190 HP



NEW

POWER

Flow Adams 660 with Torque Converter



1. 190 hp Cummins or General Motors Diesel Engine (not shown).

2. Torque Converter — Adams single-stage type. Multiplies torque 3-to-1 — provides infinite gear ratios — absorbs shock loads to prevent engine lugging or stalling.

3. Constant-Mesh Transmission — with power clutch for forward-to-reverse motion without shifting — 4 speeds forward to 27.4 mph, 4 reverse to 24.4 mph.

4. Tail-Shaft Governor — adjusts engine speed automatically to maintain constant grader speed pre-selected by the operator.

**Forward speed to 27.4 mph
— reverse to 24.4**

New *POWER-Flow* Adams 660 works at all times at fastest possible speed and highest efficiency. Its torque converter automatically balances speed and applied power to match the load. Engine torque is multiplied 3-to-1 in infinite gear ratios. Tail-shaft governor supplements torque converter by automatically adjusting engine speed to match variable load conditions.

This maximum flexibility in power transfer provides a cushion against load shock, reduces wear and maintenance on engine and transmission. When bucking varying heavy loads, frequent gear-shifting is eliminated ... no engine stalling. Operators get *more* work done — with *less* effort.

**Shift forward to reverse
with simple foot control**

Adams power-shift clutch shifts instantly in any gear range — from forward to reverse, reverse to forward — with the simple movement of a foot pedal. This leaves operator's hands free for steering and for more accurate control of blade.

POWER-Flow "660" offers many extra advantages:

Power Steering — gives the "feel" of hand steering, with hydraulic power doing the work.

Double-Action Hydraulic Braking System — applies pressure to brake on transmission as well as to brakes of 4 tandem drive-wheels.

Engine Rubber-Mounted — with no vibration transmitted to machine. Reduces operator fatigue.

Foot Accelerator — makes driving on highways and through traffic as safe and easy as driving a truck.

Six Big Tires — 14.00 x 24 — adequate traction and flotation for work in any material or footing.

Slide-Shift Moldboard — shifts easily, right or left, for long reaches.

Optional Equipment — includes Power-Shift Moldboard, Scarifier, Cab, Bulldozer, Elegrader, V-type Snow-Plow and/or Wing, Snow-Blow Wing, and Rotary Snow-Plow.

**Look into POWER-Flow
Adams 660**

See how this fast, 190 hp grader can help keep your heavy work ahead of schedule. *Write for details.*

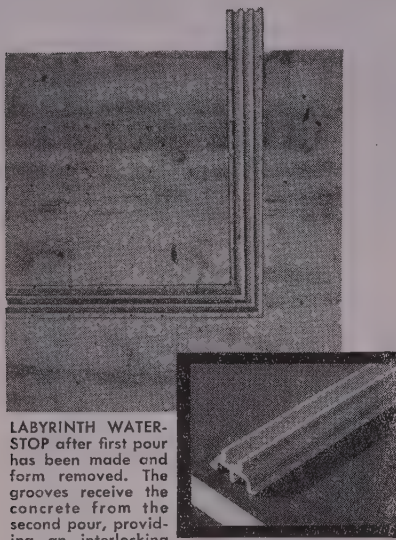
Adams, POWER-Flow — Trademark AG-1262-G-b-6



LeTourneau-WESTINGHOUSE Company, PEORIA, ILLINOIS
A Subsidiary of Westinghouse Air Brake Company

See manufacturer's detailed listing in Yellow Section

Waterstop in place in seconds!



LABYRINTH WATERSTOP after first pour has been made and form removed. The grooves receive the concrete from the second pour, providing an interlocking joint.

Just a few seconds were needed to nail this LABYRINTH WATERSTOP to the form...just a few seconds and water seepage worries were over before they could ever have a chance to start. LABYRINTH WATERSTOP forms a waterproof bond between two pours. The corrugated ribs bond firmly with the concrete.

LABYRINTH WATERSTOPS are made of flexible polyvinyl plastic... that has superior weathering qualities, is not affected by temperature changes and chemical activity.

LABYRINTH WATERSTOPS are easy to work with, can be cut to any desired length. "L" and "T" joints can be welded with just a hot knife. Find out now how your costs can be cut...and end your seepage problems.

Distributed by

WATER SEALS, INC.

Chicago 6, Illinois by:

THOMAS CONCRETE ACCESSORY CO.

1219 S. Herbert St.
Los Angeles 23, Calif.

HYDRO PRODUCTS CO.

1350 Old County Road
Belmont, Calif.

CHAS. R. WATTS CO.

4121 Sixth Ave., N.W.
Seattle, Wash.

PLASTI-SPRAY CO.

353 S. State
Orem, Utah

BAKER-THOMAS-WOOLSEY

300 S. Twelfth St.
Phoenix, Ariz.

W. J. BURKE & CO.

2344 N.W. 21st St.
Portland 9, Ore.

West Sacramento, the new branch has on hand a complete line of Cummins' parts, including cylinder blocks, crankshafts, heads, pistons, etc. Watson & Meehan has been distributors of Cummins diesel engines since 1933.

Sterling names Las Vegas rep

Sterling Electric Motors, Inc., Los Angeles, announces the appointment of Inland Service & Supply Corp. as distributor in the Las Vegas, Nev., area for its line of industrial alternating current electric motors, geared head motors, etc. Inland Service is located at 300 W. Wyoming St., Las Vegas, where John King is well equipped to solve your motor and transmission problems.

Hatten adds to sales staff

Two additions to the sales staff of Hatten Machinery Co., Seattle, Wash., are Al Close and Jim Cunningham. Close's many years experience as a factory representative is being put to good use in Hatten's power tool division. Cunningham counts 15 years with Simonds Saw & Steel Co. prior to service with the Navy. The past two years he has been covering the Seattle, King County, area on industrial machinery.

Eveready BrikSaw names dealer

Eveready BrikSaw Co., manufacturer of masonry and concrete saws and blades, Chicago, Ill., announces the appointment of a new authorized distributor in the Los Angeles, Calif., area. The Waco-May Scaffolding Co. of this city joins the nationwide dealerships serving construction and industry from coast to coast. Waco-May will provide excellent service facilities for Eveready BrikSaws, concrete saws, Xtra-Cut abrasive blades, Tuffie reinforced abrasive blades, and Ready-Cut diamond blades for all types of masonry and concrete cutting.

Forward moves by Interstate Tractor

Interstate Tractor & Equipment Co., Northwest heavy equipment dealer, has completed the purchase of the majority of the assets of P. L. Crooks & Co., Inc., well known Oregon machinery firm, as jointly announced by Interstate's president, Collis Johnson, and Paul L. Crooks, Jr., president of the Crooks company. Simultaneously Johnson revealed that Interstate has been appointed Oregon distributor for the Euclid Division of General Motors Corp. formerly handled by Crooks. "It's another big step forward in our policy of bringing the most modern machinery and the finest service to the Northwest," said Johnson, who just recently announced the company's taking on The Thew Shovel Co. account and the Chicago Pneumatic Tool Co.

Creim Co. named Yale representative

Conrad Creim Co., materials handling and construction equipment

distributor for the past ten years, has been appointed franchise representative for sales and service of industrial lift trucks manufactured by The Yale & Towne Manufacturing Co., Philadelphia.

AED to hold biggest convention

The 38th Annual Meeting of Associated Equipment Distributors on Jan. 27-30 at the Conrad Hilton Hotel in Chicago will be the biggest convention in the history of the Association, according to announcement from AED headquarters. Advance registration figures indicate that a record-breaking attendance of more than 3,800 distributor and manufacturer members will be on hand for the four-day event.

Something new has been added to the 1957 convention. Upwards of one hundred manufacturers of construction equipment and accessories will have their products on display for the duration of the convention at a special Conference, Display and Exhibit Center—termed "CONDEX" for short—to be held in the exhibition halls of the hotel. Meanwhile, the ARBA mammoth Road Show will be in progress at the International Amphitheater during the entire week, from Jan. 28 through Feb. 2. By agreement, only AED manufacturer members not participating in the Road Show itself will display at Condex.

The highlight of the Convention will be the election and installation of officers for 1957.

High on the list of subjects to be discussed are distributor-contractor relations and the problems of equipment financing. The Association plans that meetings will orientate members on methods of improving their operations, provide a forum for discussion of problems, and review recent developments and progress made throughout the industry.

The social calendar offers a well-rounded program, and the members' wives are assured of a full schedule while their husbands are attending to convention business.

Changes name; adds accounts

The firm name of Jack Sahlberg Equipment Co. was recently changed to Sahlberg Equipment, Inc. Heading this Seattle distributing organization is A. J. Sahlberg, Sr., president. A. J. Sahlberg, Jr., is vice president, parts and service. R. V. Baker specializes in crusher sales. Also in sales are Ralph Byers and Jack Miner. Reil Bigler is service manager; Wayne McLaughlin, shop foreman, and Genevieve Wiggins handles office detail.

New accounts recently taken on by Sahlberg are the Symons cone crushers manufactured by Nordberg Manufacturing Co.; Ingram rollers manufactured by Acme Iron Works; Mobil sweeper by Conveyor Co., and Comet swivel hooks for snow removal equipment.

MANUFACTURERS

L. B. Philippi joins Autocar

L. B. Philippi was recently appointed by the White Motor Co. as field representative of the Autocar Division, a newly created position. Philippi was formerly Eastern regional sales manager for Dart Truck Co.

Hough Co. announces new officers

At a recent meeting of the Board of Directors of The Frank G. Hough Co., Libertyville, Ill., a subsidiary of International Harvester Co., Frank G. Hough, founder and president of



**G. A.
Gilbertson**

the company, was elected to the new office of chairman of the board. G. A. Gilbertson, formerly executive vice president and general manager, was elected president and chief operating officer.

American Hoist Western expansion

American Hoist & Derrick Co., St. Paul, Minn., announces the expansion of its operation to the West Coast. A totally owned new corporation, American Hoist Pacific Co., has been formed and will function at 4973 Third Ave., So., Seattle, Wash. The new firm will produce special



**Charles D.
Gould**

custom-engineered heavy materials handling equipment not normally offered by American Hoist. Charles D. Gould has joined the new corporation as vice president and general manager. Other officers on the Western operation are John E. Carroll, chairman of the board, and R. J. Stoddard, president. Harry Bratt, formerly assistant chief engineer in St. Paul, will move to Seattle as vice president in charge of engineering.

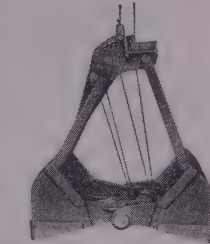
Detroit Diesel Western news

The Detroit Diesel Engine Division of General Motors has expanded its administrative sales and service facilities by establishing regional op-

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**WHATEVER
YOUR
REQUIREMENT
THERE'S
AN
ERIE
CLAMSHELL
BUCKET
ENGINEERED
ESPECIALLY
FOR
THE
JOB**



XLR, Extra Light Rehandler



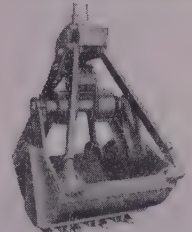
WR, Wide Rehandler



GP, General Purpose



LR, Light Rehandler



HD, Heavy Duty



SR, Standard Rehandler



XHD, Extra Heavy Duty

Of all the buckets made, only Erie gives you this combination of sound engineering features:

1. Top closing power from block and tackle, plus lever arm construction, plus precision balancing.
2. Manganese steel teeth and high carbon steel lips that bite up full payloads of even toughest clay and gumbo.
3. Rigid, one-piece, welded head that shrugs off bumps, and jars. No shimmy. No wobble.
4. Two-line, continuous reeving. Adds up to 50% to cable life. Less down-time for reeving.
5. Low headroom for fast work in tight quarters; low center of gravity for easy positioning.

For catalogs, write Dept. WC-17

ERIE STRAYER Co.

3717 GEIST ROAD

ERIE, PENNSYLVANIA

Makers of Extra Light, Light, Standard and Wide Rehandlers, General Purpose, Heavy Duty, Extra Heavy Duty, Electric and Mechanical Hook-On Clamshells.



A black and white portrait of a middle-aged man with glasses, wearing a dark suit, white shirt, and dark tie. He is looking slightly to the right of the camera with a neutral expression. The background is a mottled, textured grey.

A black and white photograph of a large white White Motor Company truck, model DC103D, parked in front of a building. Two men in suits stand in front of the truck. A sign on the truck reads "WHITE DIESEL ENGINE DIVISION" and "THE WHITE MOTOR COMPANY, PITTSBURGH, PA." The truck has a large grille with the White Motor Company logo, a prominent exhaust stack, and a large front bumper. The building in the background has a sign that reads "WHITE MOTOR COMPANY".

THE SALEM TOOL CO.

WESTERN CONSTRUCTION—January 1957

F. Mitchell named to Disston post

Frank A. Mitchell has been named general sales manager for Henry Disston, H. K. Porter Co., Inc. Prior to joining the 116-yr. old Philadelphia saw manufacturing division of the Porter company, Mitchell was marketing director at York-Shippley, Inc.

Oliver Corp. elects two v. p.'s

Samuel W. White, Jr., and Donald W. Koegle have been elected vice presidents of The Oliver Corporation. White will head industrial sales and Koegle, domestic farm machinery sales.

Chain Belt acquires General Road

Chain Belt Co., Milwaukee, Wisc., announces the acquisition of General Road Machines, Inc., Niles, Ohio, manufacturer of steel forms for concrete road, airport, curb and gutter construction; concrete finishing machines, and other concrete road construction equipment.

Frank McManus new Anthony prexy

Frank C. McManus has been named to the post of president of the Anthony Company, Streator, Ill. Anthony manufactures Teleramic hoists, dump bodies, frameless dump trailers and lift gates for motor trucks. McManus succeeds Glenn A. Duis, recently resigned.

Timken promotes C. L. Slayman

C. L. Slayman, formerly plant manager of The Timken Roller Bearing Co.'s Mt. Vernon plant, has been named production supervisor of rock bits. In making the announcement, H. M. Richey, general factory manager, reported that although a relatively new product, Timken removable rock bits have been widely accepted by the construction industry.

Sales appointments

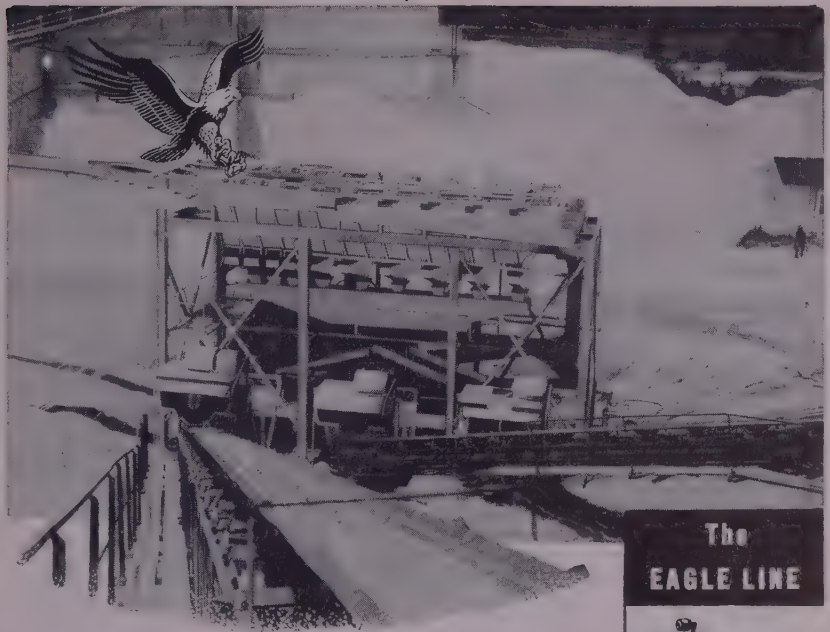
Charles W. Snyder, formerly Philadelphia district sales manager, has been named to fill the new post of industrial sales specialist for DeWalt, Inc., Lancaster, Pa. Howard L. Her shock, formerly a salesman-demonstrator, has been chosen to succeed Snyder.

Porter appoints sales-v. p.

Elected to the post of vice president-sales for H. K. Porter Co., Inc. is Sam Gurley, Jr., who until recently held a similar position with Reichhold Chemicals, Inc.

Jack Eastland heads trailer sales

Jack B. Eastland, former owner of Eastland Transportation, and a veteran of thirty years in the trucking industry, has been appointed sales manager of Specialized Trailers, Inc., North Hollywood, Calif. Specialized Trailers maintains complete manufacturing facilities for the fabrication of trailers to specification and can



*The simple, effective,
economical way to wash and
classify concrete aggregate!*

THE combination of equipment shown above is an Eagle Complete Washing-Classifying-Dehydrating Section. These Sections are designed to meet capacity and product requirements of any producer.

They are a "package unit"; can be set down and integrated with any plant.

There is NO equipment or combination of equipment that comes even close, as far as ease of operation, economy and overall results are concerned. Eagle pioneered material washing and classifying and has the broadest experience in the field.

Material, in this case, is flumed to the Eagle Water Scalping-Classifying Tank. The power-operated valves assure removal of excess water, and classification within the tank by utilizing natural settling rate of particle sizes. Gated splitters below each valve, enable throwing desired percentage of each valve's bleed to multiple-cell Collecting-Blending Flume below splitters. The multi-cell Flume below the tank routes the desired gradations to three Eagle Screw Washer-Classifiers-Dehydrators. They wash and further dewater the material, producing concrete sand, mason sand and plaster sand. Or, two screw units can produce concrete sand while one produces mason sand—any combination you want—utmost flexibility. The cost? Mere pennies per ton of material to meet specifications!

Send for YOUR Copy of new 44-Page Catalog 55.

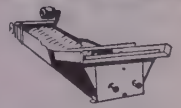
EAGLE IRON WORKS, 203 Holcomb Ave., Des Moines, Ia.

Sold and Serviced by

Brown-Bevis Industrial Equip. Co., Los Angeles, Calif.; Coast Equipment Co., San Francisco, Calif.; Balzer Machinery Co., Portland, Oregon; Intermountain Equip. Co., Boise, Pocatello, Ida.; Spokane, Wash.; Keremi Tractor & Equip. Co., Cheyenne, Casper, Wyo.; The Lang Co., Salt Lake City, Utah; H. W. Moore Equip. Co., Denver, Colo.; Jack Sahlborg Equip. Co., Seattle, Wash.; Shriver Machinery Co., Phoenix, Ariz.; Sierra Machinery Co., Reno, Nev.; N. C. Ribble Co., Albuquerque, N. Mex.; Western Construction Equip. Co., Billings, Missoula, Great Falls, Bozeman, Mont.

See manufacturer's detailed listing in Yellow Section

The EAGLE LINE



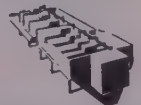
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WASHERS



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WATER SCALPING—
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COAST-TO-COAST offices provide **PROMPT SERVICE** on Economy Forms

Rent Economy Steel Forms for your concrete construction and get:

- Overnight service almost anywhere in U. S.
- Saves time, material, money.
- Complete supervisory service.
- Form erection drawings.

Other forms from Economy are available on a purchase basis.

Write nearest office for catalog.

Economy Forms Corp. DES MOINES, IOWA

Offices in Denver, Colo.; Los Angeles, Calif.;
Oakland, Calif.

Other offices coast to coast

furnish complete design and engineering service for the production of original equipment.

Heltzel appoints general manager

The appointment of R. O. Boden as general manager of the parent Heltzel Steel Form & Iron Co., Warren, Ohio, is announced by Carl J. Heltzel, president. As general manager, Boden will conduct the affairs of The Flexible Road Joint Machine Co., and The Ohio Structural Steel Co., as well as those of Heltzel.

Kaiser Steel appointment

Mark T. Anthony has been appointed assistant to the vice president and general manager of Kaiser Steel Corp., succeeding A. F. Scaar, recently named assistant general manager of Kaiser Center, Inc., Oakland.

Worthington acquires Western plant

Worthington Corporation has announced the acquisition of a West Coast manufacturing plant as a further step in the company's expansion in the air conditioning field. The facility is located in Alhambra, Calif., and will be operated as the Western Air Conditioning Division of Worthington.

Michigan tractor shovel production

The five thousandth Michigan tractor shovels built since the Construction Machinery Division of Clark

Equipment Co. began production of the equipment in April 1954 was completed and came off the line in October, according to announcement by Clarence E. Killebrew, vice president.

Philpott's sales organization

Sales organization at the George M. Philpott Co. in Portland includes Walter F. Predmore and George Findling, bearings; and Norbert T. Gleason, Victor A. Meyers, Jr., Charles Hoskins, Richard L. Henderson and Jules Alric, sales engineers. Manager for the Philpott company is Jack F. Bell. The office is in charge of W. A. Moore, assisted by Dale Funnamark.

Appointment at management level

F. R. Putnam has been named assistant to the general manager of the Blaw-Knox Equipment Division, Pittsburgh, Pa. Putnam recently retired as a rear admiral after 22 years service with the Navy. Before joining Blaw-Knox, he was head of the Management Control Branch of the Navy's Bureau of Ordnance.

Warren chosen PCA chairman

George E. Warren, president of Southwestern Portland Cement Co., Los Angeles, was recently elected chairman of the board of directors of the Portland Cement Association, succeeding Emory M. Ford who has served in that capacity during the past two years.

Timken builds research center

Construction of a new 2-story, \$500,000 metallurgical research laboratory will soon start at The Timken Roller Bearing Co. in Canton, Ohio. It will be an ultra-modern structure of steel frame, brick and tile construction with a total floor space of about 11,800 sq. ft.

New sales manager

Robert W. Humes has been appointed sales manager of Sherman Products, Inc., Royal Oak, Mich. He had been assistant sales manager since 1954 of the Sherman company which manufactures excavating equipment for attachment to Ford and Fordson Major diesel tractors.

Sales shifts at Trailmobile

Announcement is made by Trailmobile, Inc., Berkeley, Calif., of the promotion to sales manager at the Los Angeles branch of Glen L. Holmberg who formerly held the position of salesman in Oakland. Joining the sales force in Los Angeles are Howard Doeren and Frank Pender. Moving from Washington, D. C., where he was Trailmobile resident salesman, is Alan Herrick who becomes salesman at Oakland, Calif.

W. L. Brough made vice president

Walter L. Brough, who has been serving as assistant to the president since joining the organization two

years ago, has been promoted to the office of executive vice president of Hercules Motors Corp., manufacturer of gasoline and diesel engines at Canton, Ohio.

Wade forms new division

Completion of the organization of a new Construction Equipment Division of R. M. Wade & Co., special-



**Stephen C.
Munsell**

izing in construction and industrial equipment used with light and medium tractors, has been announced by Wade Newbegin, president of the Portland, Ore., and Seattle, Wash., firm. H. D. Smith, general sales manager will supervise operation of the new division, and he has appointed Stephen C. Munsell as special representative.

Four manufacturing appointees

R. J. Stoddard, executive vice president of American Hoist & Derrick Co., announces four new appointments in the manufacturing division of the firm. Hillard M. Patton has been promoted to the new foundry division; Harry A. Anderson is now manager of general manufacturing in the St. Paul plant; Walter R. Olson has been appointed production control manager of the St. Paul and Ft. Wayne plants, and Ernest S. Egerton has been named chief industrial engineer of the St. Paul plant.

Blaw-Knox adds space; new man

On Nov. 1 the Blaw-Knox Co. moved to larger quarters at the same address, 681 Market St., San Francisco, where John P. Cullen is West Coast manager of B-K Equipment Division and Construction Equipment Division. He announces that William J. Conway has joined these divisions as sales engineer at this location.

Portland replacement

W. J. Ralston, formerly assistant district manager at San Francisco, replaced E. S. Morgan at the Portland, Ore., office of U. S. Rubber Co., Tire Division.

New district sales representation

Blaine Currence, 320 Kramera St., Denver 20, Colo., is the newly assigned Western district sales representative for Euclid Division, General Motors Corp. This district comes under the Central regional office at Kansas City, Mo., where Everett C. Dellen is regional manager.

Air Reduction receives award

A certificate of recognition was recently awarded to Air Reduction Co., Inc., for its contribution to the industrial development of Southern California. The award resulted from the company announcement to build a \$7,500,000 air separation plant in the Los Angeles area.

Top level appointment

Joy Manufacturing Co. recently announced some personnel changes involving new general management positions at the vice presidential level. Among them was the appointment of James A. Drain to the newly created post of vice president and general manager of the mining and construction division.

Personnel change at I-R

T. E. "Ted" Giggey recently replaced H. K. Lewis in the contractor sales division of Ingersoll-Rand Co., at Los Angeles, where W. J. Heinz is district manager.

New address

The Los Angeles district sales offices and service department of Chicago Pneumatic Tool Co. recently moved to a new street address: 6935 East Bandini, in postal zone 22.

Standard Steel news

Industrial Asphalt, Los Angeles, reputed to be the world's largest com-

mercial producer of asphalt, with 17 plants, recently entered into a purchase agreement with Standard Steel Corp., Los Angeles, for delivery of four additional Standard asphalt plants, the largest order ever placed for this type of equipment, according to Wallace E. Hunt, president of Industrial Asphalt.

Viber Co. marks 25 years

Viber Company recently celebrated 25 years in the field of concrete vibration. Now located in a modern plant at Burbank, Calif., Viber produced its first internal vibrator in a small shop in Los Angeles and there began pioneering its use in the construction field. "We had a new idea, a new product, and had to sell the construction industry on the merits of our method of concrete vibration," O. W. Whitman, sales manager, remarked in reviewing the company's quarter century of progress. Whitman, along with President Charles W. Pierce, has been active in the growth of the company during the past 25 years.

Buffalo-Springfield joins Koehring

As of Dec. 1, Buffalo-Springfield Roller Co. of Springfield, Ohio, will be merged into the Koehring Co., Milwaukee, Wis., and will operate as the Buffalo-Springfield roller division. Julian R. Steelman, Koehring president, in making the announcement said that "Koehring, a leading

manufacturer of concrete finishing and paving equipment, concrete mixers, ditchers, excavating and hauling equipment, for the first time will be a supplier of asphalt finishing machines, road rollers and soil compaction equipment, traditional Buffalo Springfield products."

Expanded facilities

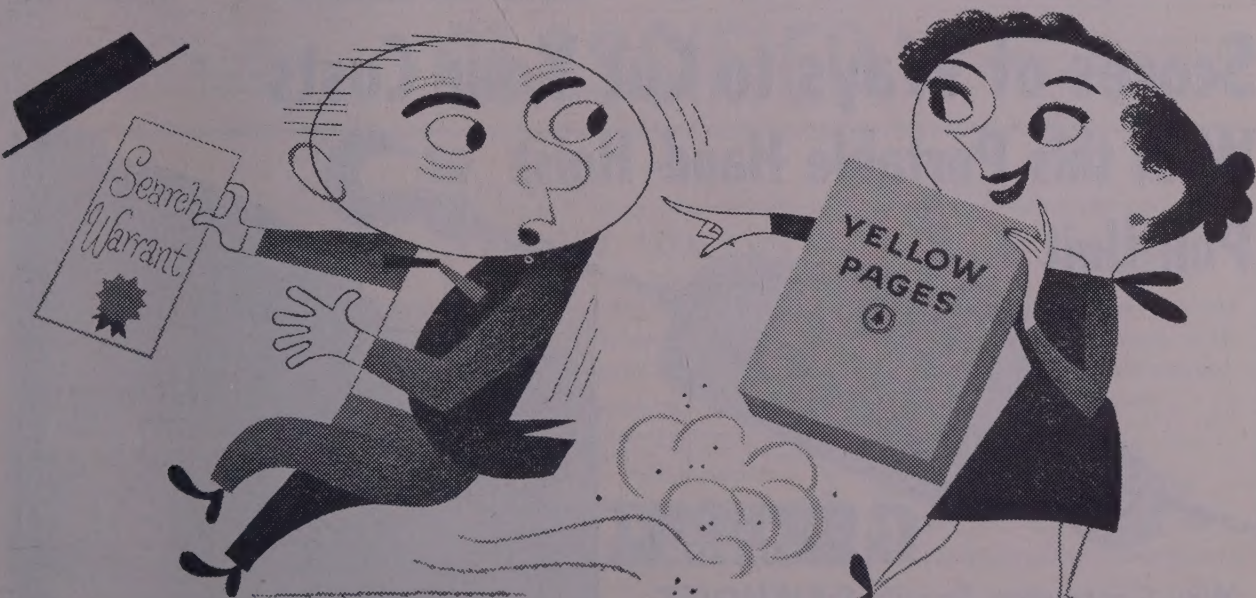
A new 130,000-sq. ft. plant is being erected in Milpitas, Calif. for the W. R. Ames Co. of San Francisco. This firm, in business since 1910, is a producer of aluminum irrigation equipment.

Towmotor acquires Gerlinger

Gerlinger Carrier Co. of Dallas, Ore., manufacturer of large-capacity fork lift trucks and straddle type industrial trucks, has been acquired by the Towmotor Corp., according to announcement by Lester M. Sears, chairman, and C. E. Smith, president, of Towmotor. Gerlinger will be operated as a wholly-owned subsidiary.

Bituminous engineer appointed

L. W. Mundy has been appointed chief bituminous engineer for Pioneer Engineering Works, Inc., Minneapolis, Minn. A member of the engineering staff of Pioneer since 1950, Mundy will now be responsible for design of all bituminous mix plants and the Vibromatic paver.



Tear up that search warrant . . .

You won't need it. For it doesn't matter what you want, you'll find it fast in the Yellow Pages. From raw materials to any specialized service you require . . . the Yellow Pages will tell you where to call.

So look in the Yellow Pages whenever any problem comes up in your business. The chances are you'll find a complete list of qualified people anxious to help you out.

You'll find it fast in the YELLOW PAGES



UNIT PRICES

Selected abstracts for Western projects

BRIDGE—Construction of railway undercrossing in Washington.

Washington—Thurston County—State. MacRae Bros. received a \$456,565 contract for construction of a railway undercrossing in Washington.

(1) Mac Rae Bros.	\$465,565
(2) Harry H. Hawkins.	478,960
M. P. Butler.	479,089

	(1)	(2)
13 ac. Clearing.	\$ 800.00	\$ 500.00
8 ac. Grubbing.	300.00	500.00
69,000 cu. yd. Common excavation incl. haul of 600 ft.	.53	.55
410 cu. yd. Com. trench excav. incl. haul of 600 ft.	2.80	2.50
2,800 cu. yd. Strip borr. & surf. pit incl. haul of 600 ft.	.66	.30
380 unit Overhaul.	.50	.45
32,000 cu. yd. Excavation of suitable foundation material incl. haul.	1.00	1.35
59,700 ton Special gravel borrow.	.88	1.10
1,720 cu. yd. Structure excavation.	2.80	3.00
50,900 cu. yd. Embankment compaction method C.	.07	.05
40 hr. Pneumatic tired roller.	8.00	10.00
48 hr. Grid roller.	8.00	10.00
48 hr. Variable load compactor.	13.00	10.00
920 hr. Mechanical tamper.	6.00	6.00
1,100 lin. ft. Slope treatment Class "A"	.15	.20
3 sta. Finishing roadway.	20.00	25.00
70 M. gal. Water.	4.00	2.00
75 cul yd. Gravel backfill for foundations.	6.00	5.00
400 cu. yd. Gravel backfill for drains.	8.00	5.00
2,000 ton Selected roadway borrow.	1.20	1.10
350 ton Furn. & placing crushed stone surf. top course.	4.00	5.00
530 ton Type I-I asph. conc. pave., Class "B"	11.20	10.00
5 ton Asphalt cement for tack coat.	71.00	65.00
mi. Preparation of untreated roadway.	1,200.00	1,000.00
40 cu. yd. New fine mineral aggregate.	6.00	5.00
3 ton Asphalt cement MC-3 prime coat.	76.00	65.00
7 ton Furnishing mineral filler.	30.00	25.00
1,000 lin. ft. Perf. bit. ctd. corr. metal pipe 21 in. dia. #16 ga. Type #2.	7.00	6.00
26 lin. ft. Bit. ctd. corr. metal pipe 12 in. dia. #16 ga. Type #2.	6.00	3.50

260 lin. ft. Bit. ctd. corr. metal pipe 30 in. dia. #12 ga. Type #2.	12.00	10.00
260 lin. ft. Bit. ctd. corr. metal pipe 48 in. dia. #10 ga. Type #2.	23.00	25.00
594 lin. ft. Plain concrete culvert pipe 12 in. dia.	3.25	2.50
198 lin. ft. Std. reinf. conc. culvert pipe 12 in. dia.	4.30	3.25
30 lin. ft. Galvanized iron water pipe 2 in. dia.	4.00	1.50
820 lin. ft. Asbestos cement pressure pipe 4 in. dia.	2.25	3.00
20 lin. ft. Asbestos cement pressure pipe 6 in. dia.	6.00	3.50
373 lin. ft. Asbestos cement pressure pipe 8 in. dia.	5.50	4.00
20 lin. ft. Cast iron water pipe 8 in. dia.	7.00	5.00
240 lin. ft. Relaying cast iron water pipe 8 in. dia.	7.90	2.25
2 ea. Gate valves 8 in. dia.	235.00	150.00
1 ea. Gate valve 4 in. dia.	100.00	75.00
8 ea. Concrete water pipe anchors.	20.00	25.00
1 ea. Special concrete catch basin #1.	150.00	200.00
3 ea. Special concrete catch basins #2.	160.00	200.00
360 lin. ft. Standard beam guard rail.	4.30	4.50
11 ea. Reinforced concrete roadway markers.	8.00	6.00
90 sq. yd. One course Port. cem. conc. sidewalk.	5.00	5.00
118 lin. ft. Resetting standard beam guard rail.	2.00	2.00
1 ea. Removing & resetting fire hydrant.	250.00	150.00
373 lin. ft. Remov. asbes. cem. wat. pipe 8 in. dia.	1.30	1.50
240 lin. ft. Remov. cast iron water pipe 8 in. dia.	1.80	1.50
360 lin. ft. Removing standard beam guard rail.	1.00	1.00
est. Flagging est. \$1,000.00.	1,000.00	1,000.00

BRIDGE ITEMS

3,070 cu. yd. Structure excavation.	5.00	5.00
491 cu. yd. Concrete Class "A"	54.00	52.00
983 cu. yd. Concrete Class "B"	54.00	52.00
297 lin. ft. Aluminum bridge railing.	26.00	23.00
177,700 lb. Steel reinforcing bars.	.134	.13
214,000 lb. Structural carbon steel.	.22	.225
7,500 lb. Cast steel.	.39	.48
2 ea. Bridge drains complete.	56.00	75.00
27 lin. ft. Downspouts.	6.00	8.00
20,400 lin. ft. Furn. timber piling (creosote treated).	1.65	1.70
393 ea. Driving timber piles (creosote treated) first 10 ft.	25.00	30.00
16,200 lin. ft. Driving timber piles (creosote treated) over 10 ft.	.05	.10
8 ea. Furn. and driving timber test piles.	480.00	700.00
27,400 lb. Ornamental metal railing.	.50	.50
330 sq. yd. Marine cement paint.	.80	2.00
180 sq. yd. Waterproofing.	6.00	3.00
Lump sum Deck drainage system complete.	3,200.00	3,500.00
Lump sum Shoofly trestle complete.	14,500.00	17,500.00

Scores of Ways to Cut Your Costs With this Portable Hand-Hoist or Pull Unit



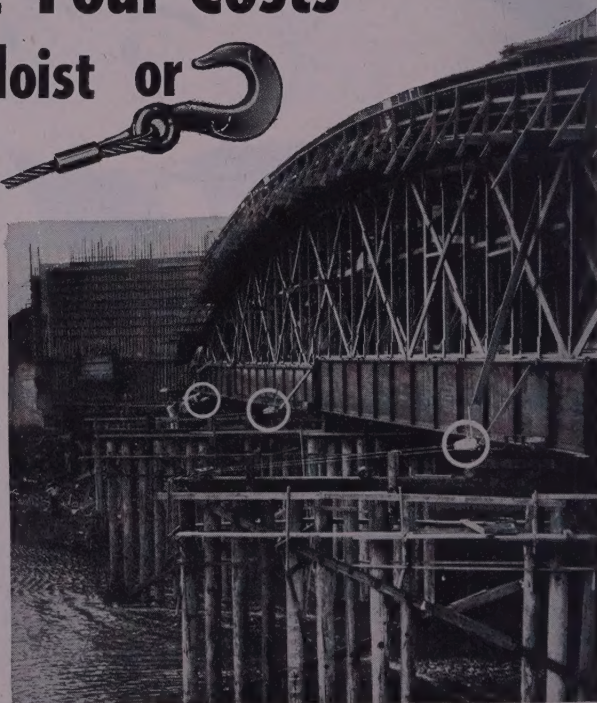
Why Contractors Specify GRIPHOIST

- Joining large concrete pipe sections.
- Lowering false work of bridges and overpasses.
- Steel bridge erection.
- Aligning sheet piling.
- Raising concrete forms.
- Pulling trucks and equipment out of mud.
- Loading or unloading trucks.
- Field repairs to heavy equipment.
- Erection and maintenance of rock crushing plants.

Princeton Griphoist
32 GEORGE ST.
BOSTON 19, MASS.

Griphoist, Inc.
2424 BRYANT ST.
SAN FRANCISCO 7, CALIF.

See manufacturer's detailed listing in Yellow Section



75-ton false work moved 26½ feet horizontally with 5 Griphoists.

Light weight—42 lbs.; unlimited travel, ½" wire rope; Rated 3300 lbs. single line to 6 tons 4-part line. Ask your dealer or write.

HIGHWAY—Roadwork and construction of two bridges and pumping plant in California.

California—Tulare County—State. Fredericksen & Kasler submitted a low bid of \$836,656 for grading and surfacing of 2.8 mi. of highway and construction of two bridges and one pumping plant near Visalia.

(1) Fredericksen & Kasler.....	\$836,656	
(2) Gordon H. Ball.....	938,420	
Cox Bros. Construction Co.....	964,587	
	(1)	(2)
8 ea. Portable timber barricades.....	\$ 50.00	\$ 50.00
Lump sum Clearing and grubbing.....	60,000.00	50,000.00
Lump sum Dev. wat. sup. & furn. wat. equip.....	3,000.00	40,000.00
21,200 M gal. Apply water.....	1.10	1.40
61,500 sq. yd. Compact, original ground.....	.04	.05
155,000 cu. yd. Roadway excavation.....	.33	.44
4,600 cu. yd. Structural excavation.....	2.10	3.00
3,250 cu. yd. Structural backfill.....	3.00	7.00
1,050,000 sta. yd. Overhaul.....	.003	.003
155,000 cu. yd. Imported borrow.....	.60	.65
70,000 cu. yd. Imported subbase material.....	.60	.65
26 ton Straw.....	60.00	55.00
45,000 sq. yd. Mix., spread and compact. cement treated subgrade.....	.22	.25
91,000 sq. yd. Mix., spread and compact. C.T.B.....	.22	.25
4,200 bbl. Portland cement.....	4.70	4.60
71 ton Asph. emuls. (pnt. bndr. and sl. ct.).....	50.00	50.00
137 ton Liq. asph., MC-2 (cur. sl.).....	50.00	45.00
137 ton Liq. asph., SC-2 (pr. ct.).....	34.00	35.00
710 ton Pav. asph. (P.M.S.).....	5.00	25.00
14,400 ton Min. agr. (P.M.S.).....	5.00	4.50
250 sq. yd. Plac. P.M.S. spillway downdrains.....	2.00	1.00
5,900 lin. ft. Plac. P.M.S. dikes.....	.20	.14
66 ton Screens.....	7.00	7.00
10,000 cu. yd. Class "B" conc. (pavement).....	15.00	16.00
6,800 ea. Pavement tie assemblies.....	.55	.55
210 cu. yd. Cl. "A" conc. (structs.) (1,383 cu. yd.).....	60.00	60.00
Lump sum Class "A" conc. (bridges).....	74,000.00	80,000.00
584 lin. ft. Conc. rail.....	6.80	6.20
134 lin. ft. Rubber waterstops.....	2.00	2.50
30,000 lb. Bar reinf. steel.....	.14	.12
Lump sum Bar reinf. steel (brs.) (230,000 lb.).....	30,000.00	28,000.00
Lump sum Furn. conc. piling.....	3.00	3.20
52 ea. Driving piles.....	30.00	130.00
Lump sum Struct. steel (170,000 lb.).....	21,000.00	20,000.00
3,970 lb. Misc. iron and steel.....	.28	.35
Lump sum Clean. and paint struct. steel.....	2,500.00	2,400.00
187 cu. yd. Cl. "B" conc. (curbs and sidewalks).....	45.00	48.00
320 ea. Curb dowels.....	1.00	1.50
76 ea. Right-of-way monuments.....	7.00	8.00
14 ea. Survey monuments.....	15.00	11.00
560 lin. ft. Met. plate guard rail.....	3.80	3.65
430 lin. ft. Steel rail.....	8.00	7.50
2.6 mi. New property fence.....	2,000.00	1,500.00
7,741 lin. ft. 72 in. chain link fence.....	1.75	1.62
637 lin. ft. 12 in. R.C.P.....	3.30	2.50

384 lin. ft. 12 in. R.C.P. (rubber gasketed joints).....	3.60	4.50
380 lin. ft. 24 in. R.C.P. (rubber gasketed joints).....	9.50	8.50
612 lin. ft. 15 in. non-reinf. conc. drainage pipe.....	1.60	2.00
824 lin. ft. 18 in. non-reinf. conc. drainage pipe.....	2.00	2.50
1,206 lin. ft. 24 in. C.M.P. (14 ga.).....	5.50	6.00
112 lin. ft. 30 in. C.M.P. (14 ga.).....	6.50	7.50
1,200 cu. yd. Filter material.....	5.00	4.80
4 ea. Entrance tapers for 8 in. downdrains.....	45.00	35.00
192 lin. ft. 8 in. C.M.P. downdrains.....	2.20	2.15
Finish. roadway.....	4,000.00	4,650.00
109 lin. ft. Raised traffic bars.....	2.20	2.05
Lump sum Pump, plant met. work.....	2,000.00	1,089.00
Lump sum Drainage pump. equip.....	9,000.00	7,192.00
Lump sum Pump house electrical equip.....	4,000.00	3,000.00
Lump sum Highway light. systems.....	9,000.00	10,000.00

HIGHWAY—Grading, draining and paving in Arizona.

Arizona—Pinal County—State. A low bid of \$128,840 was submitted by Tiffany Construction Co. for approximately 3 mi. of roadwork on the Casa Grande-Picacho Highway between Toltec and Eloy, Ariz.

(1) Tiffany Construction Co.....	\$128,840
(2) Tucson Pavers, Inc.....	132,651
Saguaro Contracting Co.....	144,526
Arizona Sand & Rock Co.....	144,850

	(1)	(2)
15,000 cu. yd. Roadway excavation.....	\$.60	\$.45
190 cu. yd. Drainage excavation.....	.60	.40
100 cu. yd. Structural excavation.....	2.00	2.00
1,300 cu. yd. mi. Overhaul.....	.40	.30
3,400 cu. yd. Borrow (CIP).....	1.00	.70
43,000 cu. yd. Stripping pits.....	.12	.20
1 lump sum Provide water supply.....	250.00	250.00
4,000 M gal. Apply water.....	2.00	1.75
560 hr. Rolling.....	9.00	8.00
38,600 ton Select material (CIP).....	.60	.60
12,900 ton Aggregate base (CIP).....	.90	1.25
1,000 ton Cover material for seal coat (Type B) (CIP).....	6.00	6.50
8,600 ton Bituminous mix (Class II-plant mix) (CIP except cost of liquid asphalt).....	2.70	2.75
195 ton Liquid asphalt for prime coat and tack coat (Gr. MC-2 or MC-3) (CIP).....	48.00	50.00
350 ton Liq. asph. for bit. mix (Gr. SC-6) (CIP).....	38.00	37.00
115 ton Emul. asphalt for seal coat (Gr. B) (CIP).....	45.00	45.00
140 lin. ft. 24 in. C.M.P. (CIP except excavation).....	7.00	6.00
188 lin. ft. 36 in. C.M.P. (CIP except excavation).....	13.00	12.00
22 lin. ft. 30 in. reinf. conc. pipe (CIP except excava.).....	15.00	8.00
1 lump sum Miscellaneous removal work.....	300.00	700.00
26 ea. Guide posts (Std. C-8, Type B) (CIP).....	7.00	7.00
17 ea. Right-of-way markers (Std. C-1) Type B or C) (CIP).....	10.00	8.00
3,700 lin. ft. Line fence (Std. C-16) (CIP).....	.25	.25

Space is sold as advertisers' inches. All advertisements in this section are 1/4 in. short of contracted space to allow for borders and composition.

CLASSIFIED

Rates are \$12.50 a column inch. Copy should be sent in by the 15th of month preceding publication.

FOR SALE

STEEL SHEET PILING
125 Tons Beth AP3, 20, 25 & 30'
276 Tons Carnegie M116—20, 30, 39 & 60'
160 Tons Beth SP4—12 ft. to 28 ft.

PILE EXTRACTOR
1 McKiernan Terry E
PORTABLE CRUSHERS
140S New 40 x 22 Rolls, Screens, Conveyors and
D13000 Engine Secondary Unit
30 x 42 Primary Unit

PILE HAMMERS
4 Vulcan No. 1 & No. 2
3 McKiernan Terry 9B 3 & 7
DIESEL ELEC. LOCOMOTIVES
4 Gen. Electric 25, 44 & 80 Ton

WANT BUY
STEEL SHEET PILING
2 PORTABLE CRUSHING PLANTS

THE STEEL PILING COMPANY
49 E. 41st St., N.Y. 17, N. Y.

FOR RENT

BRIDGES FOR RENT

Bailey Steel Truss Type
Portable & Fully Prefabricated
Variable Span & Capacity
Cantilever Erection

Excellent For

Construction detours—Contractors' access
Emergency detours — Temporary over-
crossings — Traffic separation

BAILEY BRIDGE EQUIPMENT CO.
1767 Conejo Ave., San Luis Obispo, Calif.

WANTED

WANTED

Good used scalper crusher
unit with approximately 4x10
screen and 12x36 jaw crusher.
With or without power.

**Mullinax
Engineering Co.**

Box 1247 — Sheridan, Wyoming

POSITIONS

ENGINEERS

Long established firm of consulting engineers with world-wide practice needs both beginners and experienced civil, electrical, mechanical, and foundation engineers for interesting work on large dams, power-plants, and river control works. Permanent positions. Liberal employee benefits. Starting salaries dependent on qualifications. Please send complete resume to Hugo Niemi, Personnel Manager.

HARZA ENGINEERING COMPANY
400 W. Madison St. Chicago 6, Ill.

LOW COST INSTALLATION AND OPERATION

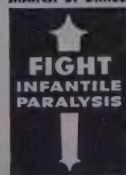
CABLEWAYS
IMMEDIATE SHIPMENT
ELECTRIC, STEAM OR DIESEL
CAPACITY 5 TO 20 TONS
SELL, RENT OR BUY

FOR DAMS
BRIDGES
BREAKWATERS
FILTRATION AND
SEWERAGE PLANTS

FOR SPEED
ECONOMY
EFFICIENCY
FLOOD SAFETY
LABOR REDUCTION

AMBURSEN DAM CO INC
295 MADISON AVE NEW YORK

MARCH OF DIMES



JANUARY 2-31

ADVERTISERS in this issue

The 1957 American Road Builders' Association Road Show, Chicago, January 28 to February 2, is probably the biggest event in the heavy construction industry this year. For the convenience of our readers who may be planning to attend, we are providing below: (1) the exhibit locations of our advertisers, whose products will be on display at the show, and (2) the page numbers of their Directory listings showing a complete list of products and Western distributors.

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Johnston Stainless Welding Rods

Practical, Down-to-Earth Welding Rods
Alloys as they are supposed to be

Corrosion Resistant—
Clean metal

Strong—
Low in cracking

A. P. JOHNSTON CO., INC.
1845 E. 57th St., Los Angeles 58