

Editorials

Frozen formulas for highway funds

The more the demand on the highway dollar, the more flexible should be the formulas for its use. Fixed formulas that are designed to eliminate extremes in poor judgment often leave public officials with mounting needs in one classification of work and frozen funds in another.

Allocations that appear right at one time may be seriously out of balance within a few years. As an example, state gas tax funds allocated back to municipalities usually have strings attached based on what appeared to be the existing need. In California, cities are required to spend 60% of these funds for street construction and 40% for street maintenance. Thus the state sets up a logical provision to guard against gross misdirection. Some control is reasonable and the desire to insure the proper spending of the people's gas tax is laudable. However, such a fixed ratio that will appear right at one time can get out of balance rapidly.

Further, the needs may vary from city to city, far beyond the wisdom of the legislature to anticipate. One municipality may have its street building program well advanced, with no current annexations of territory, and this will emphasize the need for using funds for maintenance. Another may be expanding its boundaries rapidly, which puts the pressure on building more miles of streets, with maintenance necessarily pushed off into the future.

How can such variables for all types and conditions of cities be fixed by a single formula? If there was a really typical city and if this city were to remain typical, then a frozen formula could be established and applied with reason and justice. Otherwise it becomes not only unworkable but an actual handicap to city growth. A frozen asset in street construction funds is mighty frustrating when the needs are piling up for repairs and maintenance.

Education for construction

Long overdue is the accelerating interest in permitting civil engineering students to prepare for careers with contractors or construction organizations. While more and more graduates are choosing jobs with contracting firms, civil engineering departments allot more and more courses to higher mathematics and intricate science.

There is no denying that the science of civil engineering becomes ever more complex, with greater demand for "required courses." Today, the four-year man must be stretched from BOD to indeterminates, and from cat-blown asphalt to the hydraulic jump. Civil engineering remains the broadest of the engineering sciences trying to maintain its unity. It stretches its "Mother Hubbard" tighter over a growing pregnancy. One of these days there will be an offspring—and it could be a multiple birth.

Now comes the demand for construction courses, stretching civil engineering education still further. The pressure is not artificial. More and more students are looking forward to careers with contractors; they are successful, which snowballs the trend; more and more contractors are realizing that young engineers represent most promising recruits for future top positions.

Rather obviously candidates for these jobs need only the broader essentials of engineering science, and should add courses in business methods, finance, taxes, law, psychology, and labor relations. Even engineering studies lie beyond the scope of civil, extending over into mechanical, electrical, and industrial, with touches of mining. In fact, the ultimate solution could develop into a curriculum representing an entirely new college course. Obviously, this would eliminate the possibility of the graduate ever considering himself an engineer, or obtaining the legal standing of a professional engineer.

One answer that holds much promise, both for the student who desires this education and the contractor who wants this employee, is the step taken this year by the Department of Civil Engineering at Stanford University.

In 1946 it moved to meet the need and offered subjects within the framework of the existing four-year course. Next, it followed the many successful careers of these graduates who went into the construction industry. Then, the contractor-employers of these graduates were consulted, with an assist from the AGC, and opinions appraised to determine the most desirable and helpful additional courses. Finally, the department came to the realistic conclusion that any four-year course could not meet the full requirements of students or contractors. A fifth year has now been added. Details of the program and its background are reviewed in this issue.

The result is one of the most significant steps yet taken to move construction into its proper position with respect to formal education.

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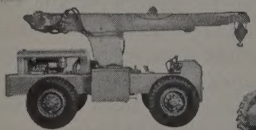
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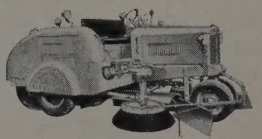
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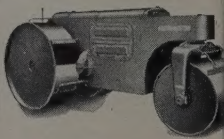
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Looking forward into 1956 finds Western construction with— **Volume up and new field methods**

Again, all of the indicators point to a further increase in construction activity for the West during 1956. From a record-breaking 1955, this expanding region will move forward to even greater construction activity this year.

National authorities agree on an estimated increase of approximately 5% for 1956 over the past year. Further, they state that much of this predicted increase will be generated by expanding population. Obviously, if this factor is going to provide a 5% increase in national construction activity, it follows that the West, with population expanding at more than double the national average, can be sure to increase at double the national figure.

All students of population are agreed that California will pass New York as the most populous state at least by 1965 and possibly several years sooner. Several other Western states, particularly Arizona, are showing an equal rate of expansion.

Three large segments of construction activity will get a particularly strong boost from this population increase. Water conservation and development will have to be speeded to keep up with requirements for power, flood control, irrigation and domestic needs. Highways are not only receiving more gas tax dollars with every added car on Western highways, but are going to require additional funds from other sources. An expanded federal aid program could begin to add this financing the latter part of 1956. If not, some of the Western states will be forced to increase their present gas tax to keep up with the tremendous pressure for modernizing or extending highway facilities. Lastly, industrial growth including buildings and all accessory construction will follow this same trend. This Western region is producing an increasing amount of both capital and consumer goods, and every added increment of population tends to expand the need for more industry.

Looking beyond 1956 there is no indication that population growth will diminish. It has been steadily increasing for a decade and will continue. This means that all types of construction will receive this population stimulus and expand steadily during the years following 1956.

With expanding volume assured, it is interesting to review some of the trends in construction techniques, methods, and equipment which will influence work in the field during the coming season and years ahead.

Possibly the most striking advance during 1955 was

← See manufacturer's listing page 7, Yellow Section

January 1956—WESTERN CONSTRUCTION

the acceleration toward using pre-tensioned or post-tensioned concrete in many types of construction. For several years past this has been an important construction growth, but the acceleration was striking during 1955. Further, the introduction of lightweight aggregate in connection with these precast and prestressed units opens new horizons.

Every year the use of earth as an engineering material is extended both in volume and engineering precision. Record size and better designed earthmoving equipment went on the market during the past season. This, in turn, will extend the economic limits for the size of earthfill dams, channels of all types and for highway cuts.

Using earth as a material for construction has always included the problem of getting it back into compact form, after it was moved into place. Pressing the material back to proper density has been demanding larger and larger units. Within the past year, the application of a vibratory effect to aid in consolidation has been receiving much attention not only from soil experts, but also from manufacturers of equipment.

Form work has always represented too much time in concrete construction. Today, the time is being cut by the extensive use of plywood panels and accessories.

A corresponding development in the use of timber has been the adapting of laminated members for form work in arch bridge construction.

Asphalt has not only extended its predominant use as a Western highway material, but important innovations have expanded its use for hydraulic structures. This is particularly evident in the development of prefabricated panels for lining ditches and reservoirs, and the experimenting with a combination of sand and emulsified asphalt applied by the pneumatic process.

Steel construction has witnessed the expanding use of high strength bolts for buildings and special alloy steels in bridge design. Large size reinforcing bars are becoming more common in concrete work, particularly for large column sections.

The West will continue to maintain its position as leading all parts of the country in the development of new field equipment and methods. The ingenuity of its contractors represents a potent force in advancing construction techniques.



AT THE McNARY DAM project this orderly layout of about 600 mobile homes houses a part of the construction force. It has been estimated

that of the 2,000,000 people living in mobile homes throughout the country nearly 1,000,000 are construction men and their families.

Mobile homes on construction jobs



By
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G. FAGAN**
Vice President
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CONSTRUCTION companies in the West, particularly those operating jobs involving a mobile or semi-mobile work force, are faced squarely with a logistical situation somewhat reminiscent of the tent city days of early railroad construction. It is becoming more apparent that the matter of providing suitable housing for the mobile construction worker is a responsibility of the contractor.

Lack of steady employment in their trades; the lure of high wages and bonuses; and, the promise of a reasonably long-term employment has attracted many thousands of skilled construction workers—and their families—to the Western states which are undergoing rapid and extensive industrial, military, and public works expansion—atomic energy plants, dams, bridges, highways, ore processing plants, pipelines, airbases, etc.

Frequently these big construction jobs are located in undeveloped or sparsely settled areas and usually where no community exists at all. The possibility of maintaining a satisfactory family life is most difficult. Adequate or reasonably priced rental housing is at a premium or almost non-existent. Where any housing is available there is also a definite reluc-

tance on the part of the landlords to rent their properties to so-called "temporary" tenants.

The skilled worker reacts strongly against being considered a dubious community asset. Over the years workers have unsatisfactorily solved this dilemma by leaving their families behind and finding temporary residence in a rooming house or in quarters provided by the construction company. Essentially a family man, the worker faces the unattractive prospect of spending one to three years away from his family—only interspersed with hurried visits.

The modern solution

This unique situation of job, employment, and family demands has posed a problem. Construction company officials realize that by helping to keep a man's family together they are more apt to have a stable, happy, and reliable worker. An increasing number of contractors have discovered a fast, flexible, and economical solution to this perplexing problem—mobile homes—or house trailers as they are more commonly known.

Mobile homes have solved the housing problem on a variety of construction jobs, both big and little. It is estimated that of the 2,000,000 persons living in house trailers nearly 1,000,000 of them are men and their families on construction projects all over the United States.

Contractors who have had experience with workers housed in trailers have indicated that not only are mobile homes the best answer, but also the only immediate answer to housing needs that mushroom overnight. The very fact that they are mobile and can be brought into an area

quickly, as completed units, has been of paramount importance.

There are many other plus factors for the construction company. Trailer life eliminates (1) the long automobile trip from job to community, (2) workers having to live a lonesome existence in rooming houses, and (3) the time lost by the worker (and company) by his periodic family visits.

Local civic leaders have pointed out that the cost to the contractor, and ultimately to the taxpayer, is considerably higher where the construction company is required to build temporary housing for their employees. The problem of tearing down or leaving a community eyesore would also be present, whereas it is a simple operation with mobile homes to wheel them away.

Operating a mobile home community

A trailer park is a highly specialized type of operation and it seems practical for the contractor to learn from the experience of others well-versed and trained in this particular field, according to Stanley E. Long, executive director of California Trailer Park Association.

A successful, attractive, and well-run trailer park requires a considerable financial investment, as well as the operator's constant supervision. Sewage and water systems, electric power, paved or graded streets and parking areas, laundry facilities, land drainage, garbage and rubbish collections, toilet and shower facilities, are minimum requirements.

All trailer parks have a set of regulations, or ground rules, to which the trailer occupants must adhere. In addition, as a landlord, the trailer park operator is subject to local and state

laws, ordinances, rent controls, and inspections by fire and health officials.

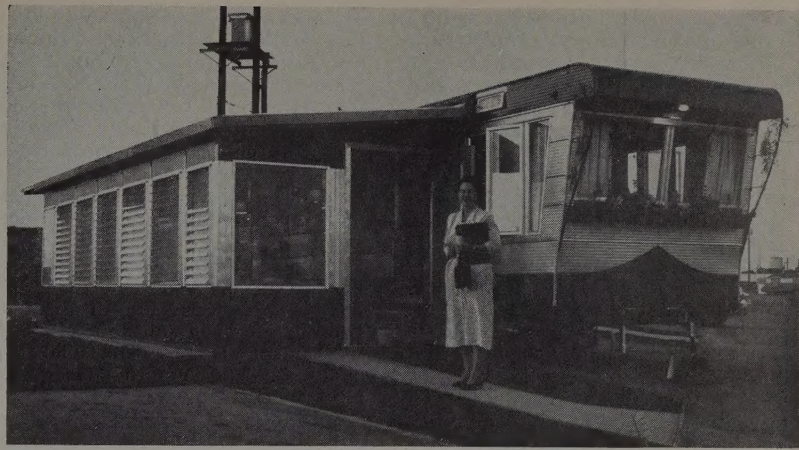
Groups might be formed that would be willing to undertake such a project providing they could also be assured the concessionary rights in restaurants, grocery stores, service stations, and other necessary community facilities. Franchises could be granted this operating unit to rent mobile homes to any workers desiring them. However, the contractor must maintain a jurisdictional control over the area at all times.

If the construction company plans to operate a reasonably large mobile home community—including the rental of trailers to workers—then it is suggested an expert trailer park operator be hired by the company to supervise the entire program. Under this type of arrangement, suggests Alfred I. Switzer, trailer park engineering authority, the construction company would stand the entire expense of installation, operation, relocation and the clearing of the area.

Selecting an area

The contractor must set aside a definite area for the establishment of a mobile home community. The location of this site would be determined by terrain and utility requirements, always with the thought that the nearer the job the better. An area should be chosen which would reduce the grading, leveling, and other preparatory work to a minimum. It should be of sufficient size to allow trailer spaces to be laid out with approximately 1,200 to 1,500 sq. ft.

In California, these spaces should conform closely with the specifications of the State Trailer Park Act (copies available from California Department of Industrial Relations), insofar as lot setback areas are concerned and the distances between trailers. This will help avoid a



ATTRACTIVE mobile homes near the job eliminate long car rides to work and improve morale of the construction crew. Individual families often add to the mobile unit and plant the yard.

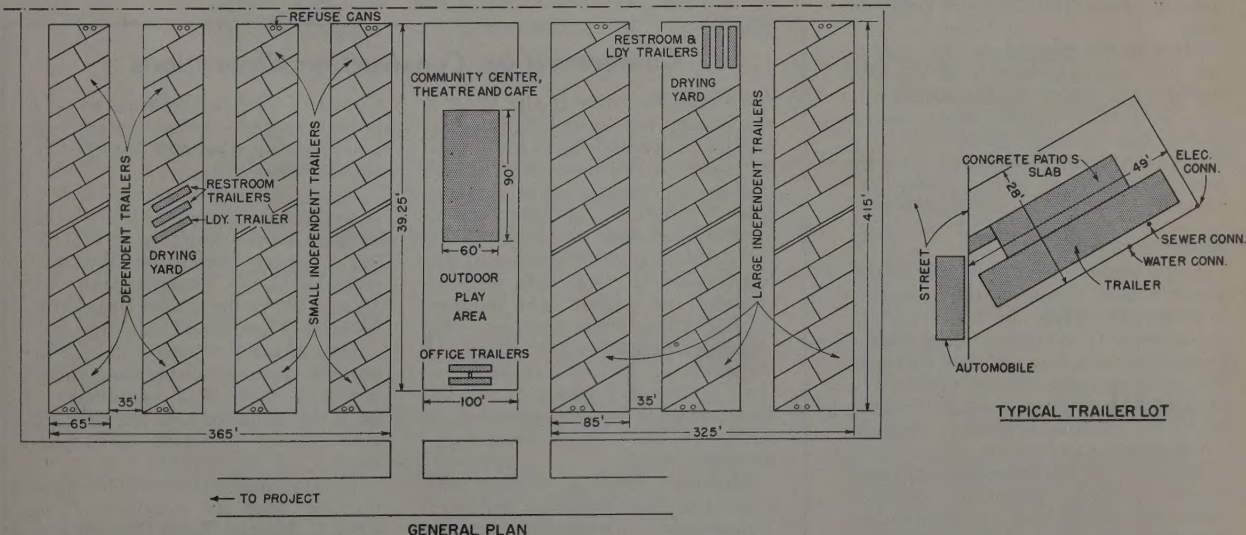
crowded condition and one that could cause difficulty in operation. On the other hand, a site should not be selected which would be so large that it would be cumbersome to maintain and operate.

Under no circumstances should the contractor ignore the privately owned incoming trailers and permit them to clutter up the area without any control. Many California counties prohibit, by ordinance, the indiscriminate parking of trailers outside of regulated areas.

It would be difficult to determine how much of the area should be allocated for family units when obviously the percentage of workers with families is not known prior to their arrival. However, it would be safe to figure on the minimum space size (1,200 to 1,500 sq. ft.). In the event that a family section is desired, it can be segregated from the balance of the park and constructed for family occupancy only.

The California State Trailer Park Act includes a set of regulations governing installations in and around commercial and industrial trailer parks. However, in view of the fact that the type of operation being discussed in this article concerns only the employees of a specific contractor, company, or project, it would then fall into the category of Employee Housing (Labor Camps); and the regulations specified under this code are far less restrictive than those under the State Trailer Park Act. In any case, only good planning and common sense dictate the reasonable amount of installations that should be provided for the trailer occupants. Most Western states have enacted legislation to govern trailer park operations and information can be obtained by writing state authorities.

Modern systems for the disposal of toilet, kitchen, and bath wastes are



HALF-PLAN of a model mobile home park for 341 units designed especially to accompany this article by Alfred I. Switzer, civil engineer. Trailers would be brought in by members of the construction crew or

provided by the developers of the park. Water, sewer, and electrical connections are provided at each site. Community center and other buildings are demountable steel. Other half is almost identical.

among the most important sanitation problems facing the trailer park operator. A good park-sewage system is only moderately less expensive than that provided for more permanent structures. Well-constructed trailer parks maintain a disposal system that will accommodate all types of house trailers. Disposal must be considered at all times when sanitation construction in the park is under way—septic tanks, or other safe and sanitary means of diverting drainage, must be installed.

The installation of an adequate electrical power supply is a necessity. Park lighting should be 2/10ths of one foot of candlepower along streets, walkways, and around any utility building. The normal load per trailer should be approximately 30 amp. In any desert areas it would be 30 amp. with 220 volts because air conditioning is usually needed and additional voltage is necessary to carry the extra load.

It would be necessary to pipe in water, either on the surface or underground, depending on the duration of the job and the temperature of the location. Obviously in a very hot climate, it would go below the surface and wherever freezing weather may be encountered it must go below the frost line. Water should be provided to each trailer.

Good laundry facilities are an important asset to trailer park life. Parks furnish these community (joint use) facilities and they are usually located in a building set aside for this specific purpose. An adequate water supply and a convenient arrangement of the equipment is essential. The most common type of laundry facilities offered are, the semi-automatic washing machines, wringers, tubs, and drains. Some parks are equipped with automatic washers and driers. Charges for the use of the equipment are dependent on the type in use and usually range from 25 to 50 cents an hour.

Most parks depend on the chemical fire extinguishers and on the trailer site's water supply to put out any fires that might occur. Some parks, due to their proximity to a large community, may rely on the local fire-fighting units under arrangement with proper authorities.

Mobile home life

Since trailers are the homes of the construction workers, they express considerable pride in their mobile residences. In addition, most trailer families make some effort to increase the attractiveness of the yard space around the trailer. Fences enclose many of the lots and many contain small gardens and patios.

Families of construction workers share a similar economic, occupational and social level; consequently, they face similar problems and conditions and solve them by drawing on group resources and experiences.

Many of them have migrated to various job locales together so there is a sense of community feeling. Trailer families generally patronize local merchants and services if the distance is not too great. Otherwise, they will rely on company-owned or sponsored stores and services.

A few words about fees—the base monthly rental (excluding utilities) usually ranges from \$18 to \$25, with a median figure of \$24. In addition, most parks make an added assessment of \$2.00 per month for each child or for each additional adult residing in the trailer. A flat charge of about \$7.00 per month is made for electric power.

Adequate medical and dental care is not a serious problem for trailerites. The park operator usually has the names of several reputable physicians and dentists available and will call one whenever necessary. Limited medical attention is generally available for the worker through the contractor's medical dispensaries, and the same holds true for their children in the public schools.

Trailer children, from the standpoint of the school system, do not constitute any special problem. They usually form only a very small fraction of the total increase in school enrollments. Transportation to and from the schools is possibly the only problem, and this can be solved by car pools, company-sponsored buses, or some economic arrangement with the school system's bus service.

Some examples

The mining of taconite, a second-grade iron ore, has created such a demand for housing on the Vermilion and Mesabi ranges in Minnesota that contractors say it could not possibly have been met expeditiously or adequately by any other housing except mobile homes. The Erie Mining

Co. houses most of its personnel in trailers. More than 700 company and 400 privately-owned units are already installed with utility and sewage hook-ups. The company expects to have in excess of 1,000 of its own units eventually in this 40-below zero Minnesota weather.

Housing of workers on the McNary Dam project on the Columbia River at Umatilla, Ore., required 600 mobile homes. It is estimated that 40% of the workers brought into the area were housed in them. (See picture.)

These are but two examples of many. From the Straits of Mackinac to Anacortes, Wash., from the taconite fields in Minnesota, to the pipelines on the Gulf Coast, mobile homes house the workers doing the nation's construction work.

Contractors are largely unaware that trailer manufacturers also produce special purpose mobile units specifically designed as kitchens, engineering offices, dormitories, and for countless other special jobs.

Kit Manufacturing Company has helped meet this construction housing problem in many areas—Silver Bell, Ariz., Coulee Dam, Wash., Moses Lake, Wash., Delano, Calif., Holliday, No. Dak., Farson, Wyo., near Las Vegas, Nev., and in numerous locations in Alaska. Many of these are privately owned Kit trailers, but a good number have been purchased by the government or construction companies like Isbell Construction Co., for employee use.

In order to meet the needs encountered in moving from one construction site to another, these trailers must be built to rigid specifications—adequate, comfortable housing in climatic extremes, low cost with low maintenance, and complete mobility. Mobile homes may be permanent, for mobility does not mean temporary. While they may be "temporary," they are never sub-standard.

Conference on Construction Operations

For the first time in the West a conference has been scheduled to study and discuss means for adapting some of the science of industrial management to construction. This "Conference on Construction Operations" was initiated by the Department of Engineering of the University of California at Los Angeles and will be held January 27 and 28 on that campus. The steering committee that prepared the program included representatives from every phase of the industry, under the chairmanship of C. Martin Duke, professor of engineering.

The first morning session will cover the "Construction Industry Tomorrow." Luncheon speaker will be J. J. Christian, Secretary, Los Angeles Building and Trade

Council. The afternoon session covers subjects from research in construction through design to actual field work.

On the second morning, matters of project management will be the subject for the conference, including a paper "Scientific Management in Heavy Construction" by Lyman D. Wilbur, Vice President, Morrison-Knudsen Company, Inc.

That afternoon there will be four panel sessions covering both office problems and field problems in both the building and engineering construction divisions of the industry.

Further information on the conference may be obtained from Prof. C. Martin Duke, Department of Engineering, University of California, Los Angeles, Calif.



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ARBA outlines a plan for Federal-aid roads

THE HIGHWAY building industry needs agreement on sponsoring a long-range accelerated Federal highway program. The industry itself is the logical source of information on the condition of existing highway systems and their future needs, to guide the Congress in its renewed study of the problem. The American Road Builders' Association, representing widely diversified interests within the broad framework of the highway industry, is a logical author of such a policy statement. Although individuals and groups may have differing ideas on details, the presentation of a basic program has advantages in avoiding wide divergence of positions that could further delay the needed action by Congress in activating an accelerated Federal Aid highway program.

The official position of the American Road Builders' Association follows in slightly condensed form:

1. The Association has full confidence in the traditional Federal legislative policy which has provided a joint, cooperative Federal-State program, based on matching funds, with primary responsibility vested in the states. This concept has been highly successful for 40 years and should be continued in the interests of efficiency and economy.

2. Deficiencies in all of the Federal-aid systems should be corrected within a reasonable period of time—preferably 10 years. Conditioned on a gradually stepped-up program for the first few years, comprehensive studies made by the American Road Builders' Association show conclusively that prosecution of a vastly expanded program in a 10-year period is entirely feasible within present and proposed capacities of both industry and the engineering profession.

3. Federal assistance to the states should be extended on the basis of a well-balanced program. This program should provide the orderly, proportionate and, so far as practicable, concurrent improvement of the Federal-aid interstate, primary, and secondary systems, including the designated urban highways.

4. Completion of the interstate system is of vital importance to the national defense and economy and merits special consideration, with the Federal Government assuming at least 90% of the cost.

5. The Federal Government should, as in the past, extend 50% of the funds for improvement of the Federal-aid primary and secondary systems, including the designated urban highways.

6. Employment practices and prevailing wage scales on Federal-aid work should remain a matter for de-

termination by each state.

7. Administration of Federal-aid for highways should remain a function of the U. S. Bureau of Public Roads.

8. How best to finance a long-range greatly expanded Federal-aid highway construction program appears to be the most controversial issue confronting the administration and the Congress at this time. The desire is great, of course, and understandably so to avoid an unbalanced budget or any spectacular expenditures which might adversely affect the national debt ceiling.

Owing to the complexities involved in Federal fiscal matters, the Association takes no positive position as to specific revenue measures. It is the Association's broad opinion, however, that the financing of an accelerated highway program should be through Congressional authorizations made upon the general funds of the Treasury as in the past and not related to any specific source of revenue.

9. After careful and exhaustive investigation of the situation, the ARBA, some four years ago, came to the conclusion that the ever-increasing backlog of deficiencies in our Federal-aid highway systems was rapidly becoming a National problem of considerable magnitude and one that was affecting the economy, the security, and general welfare of the Nation. These views were, at the time, presented to the appropriate Committees of Congress with the suggestion that the best approach to the problem would be to face the situation in its entirety with a view to adopting a long-range program of Federal authorizations.

Obviously such a program could not be considered until estimates of cost were made available. These estimates were made available by the Bureau of Public Roads about one year ago, whereupon the Association undertook the task of developing and later recommending for consideration by Congress a 10-year stepped-up program that would correct all deficiencies on the interstate, primary and secondary systems, including the designated urban highways.

10. According to estimates of one year ago, the overall Federal-aid project would involve a total cost of \$68,000,000,000, of which \$23,000,000,000 would apply to the interstate system, \$30,000,000,000 to the primary (rural and urban) system and \$15,000,000,000 to the secondary system. Considering the interstate system as a special project and assuming about 90% Federal contribution thereto and also assuming a 50% Federal contribution to the other sys-

tems, the following tabulation shows in round figures a breakdown of matching responsibility between the Federal Government and the states.

	Federal	State & Local	Total
Interstate	\$21.0	\$ 2.0	\$23.0
Primary	15.0	15.0	30.0
Secondary	7.5	7.5	15.0
TOTAL	\$43.5	\$24.5	\$68.0

(All figures are in billions)

11. Assuming a construction period of 10 years, the logical schedule of annual Federal authorizations of funds would start at \$2,000,000,000 the first year. The schedule also shows, as does the table above, the relationship between total Federal requirements and the State matching requirements. This proposed Federal-State cooperative program is entirely feasible from the standpoint of engineering and construction; and it continues to be the firm belief of the Association that it, or a program of Federal authorizations approximating it, should be adopted and the work vigorously prosecuted.

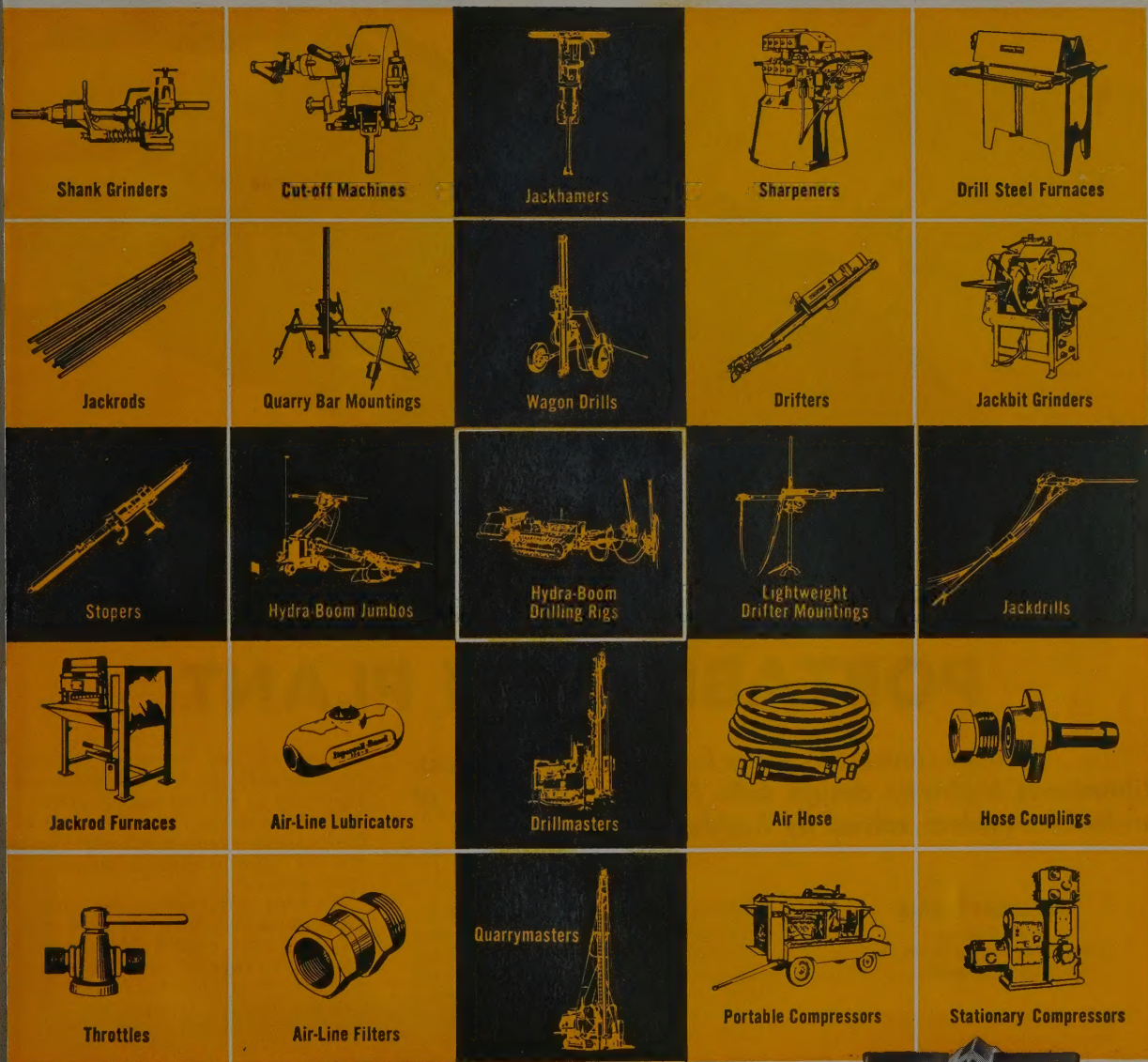
12. The above long-range proposal while positive is nonetheless flexible and is a program that faces facts; one that would do the job if funds became available.

The thought has been advanced in certain quarters that even if funds were made immediately available, the work could not be accomplished within a period of 10 years and particularly so because it would take at least a year and possibly two years to prepare plans and secure right-of-way.

The answers to such arguments are contained in the ARBA Task Force comprehensive capacity studies, made in the fall of 1954 and published early in 1955. These studies, predicated on a 10-year stepped-up construction target 50% greater than that called for by the current Federal-aid requirements, revealed only a few weak spots and none that could not be readily overcome. In arriving at this conclusion, due consideration was given to maintenance of the Federal-aid systems and to all highway and street requirements outside the Federal-aid systems. Consideration was also given to other construction requirements. The studies brought out the fact that engineering plans in a sizeable amount of work on the Federal-aid systems were already available.

13. The acquisition of rights-of-way in urban areas is conceded to be a time-consuming and costly factor, but this is not necessarily the case in rural areas where the mileage is great and the acquisition of rights-of-way not so difficult. The problem as a whole is definitely one of finance and not construction; and 10 years is ample time to bring our Federal-aid systems up to tolerable standards. The job is of tremendous magnitude and nothing less than a bold realistic approach will ever accomplish the ultimate objective.

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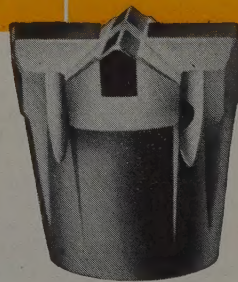
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By **ELTON T. FAIR**

Field Engineer
Pioneer Engineering Works, Inc.
Denver, Colorado

EARLY ONE morning during the past construction season a big Kenworth truck-tractor pulled out of Denver towing a 56,000-lb. Pioneer 35-S gravel plant. Ahead lay Colorado's 11,992-ft. Loveland Pass and a 363-mi. trip. The rock production unit which Sorensen Bros. of Murray, Utah, had purchased was intact. Neither its feeder hopper, sand conveyor, jaw or roll crushers had been removed for the trip. This was a move to test whether lightness of weight could really be combined with high gravel output.

Eleven hours later the plant pulled into an important highway job in Utah, and in a short time was in full production. The pit was typically western: Classification — gravel and boulders, Los Angeles Rattler Test — 16 to 25. Crushing ratio — 30 to 40% in the 1-in. minus size, 50% for the ¾-in. minus specification. Yet even on the ¾-in. minus product the plant started right in at 175 tons per hr. (tph.)

What Sorensen Bros. demonstrated by the feat was the fact that one of the Western highway contractor's worst problems had been solved. How to combine high production units into a plant light enough to meet over-the-road limits has long been a headache for engineers designing such equipment, and for the contractors purchasing and operating crushing machinery.

Problem peculiarly Western

In many respects the problem engineers faced when they designed for portability and high production was peculiarly Western. Generally speaking, the West is asphalt highway country. Asphalt highways need good sub-bases. Plant mixes require sound crushed aggregates. And armor coats make mandatory the production of long-wearing rock chips of fine size. Tonnages on Western jobs are high—projects with 100,000 tons of crushed and screened rock now are commonplace.

Combined with these high tonnages are other factors that add complications. For example, time limits on most road jobs are getting

shorter as the highways become more urgently needed. Engineers are beginning to enforce penalty clauses. And one of the worst problems of all is distance—again peculiarly Western—as long interstate moves become general.

Western contractors are notoriously nomadic: there are Utah contractors who regard Nevada and Idaho as regular parts of their domain. Southern California contractors fail to concentrate there. Truck hauls of 400 mi. are common for asphalt batch equipment.

Western rock pits

Physical characteristics of average Western rock pits must also be considered as part of the over-all problem. Jobs where quarry production develops easily-crushed stone, typical of the East's limestone country, are almost nil in the West. Northwestern Engineering Co. of Rapid City, S. Dak., is doing such a production job for the Corps of Engineers at Great Falls Air Force Base in Montana, but it is strictly an isolated example. For the great majority of jobs engineers locate native deposits of alluvium ranging in gradation from 200-mesh minus to large rounded cobbles 10 in. or more in diameter.

Such deposits vary greatly in crushing. There are formations which seem elastic and resist crushing. Others are so brittle they liter-

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MARION 362	1½	24'-8"	18'-2"	100'-0"	37	---	---	1½-2	398-D
MARION 372	---	---	---	100'-0"	43	---	---	---	---
MARION 83-M	2	24'-8"	18'-2"	120'-0"	60	---	---	2-2¼	414
MARION 87-M	---	---	---	140'-0"	75	---	---	---	---
MARION 93-M	2½	27'-4"	20'-0"	120'-0"	80	---	---	---	397-E
MARION 101-M	3	27'-4"	20'-0"	120'-0"	84	---	---	---	417
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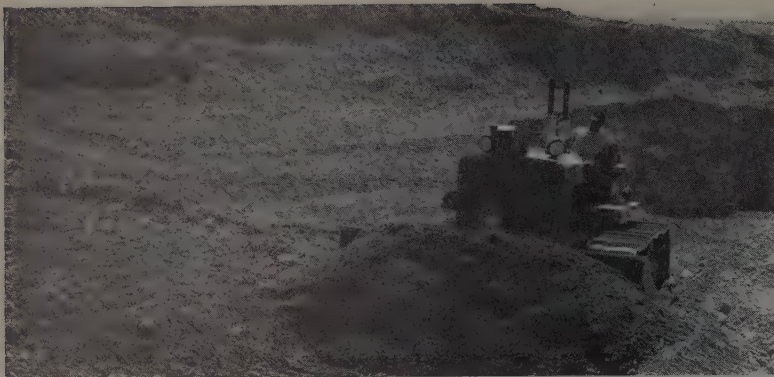
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MARION, OHIO, U. S. A.

See manufacturer's listing page 40, Yellow Section



AT THE PIT the first problem is to get the material to the plant. Popular method used by most contractors is a dozer or two. With a portable plant it can be moved right to the pit eliminating loading and hauling of the gross tonnage of raw material. Western deposits are usually alluvium grading from fines to large rounded cobbles.



THROUGH THE PLANT the key is control to meet ever-tighter engineering specifications and flexibility to change from one type of product to another. For example, this plant had to switch fast from building a stockpile of graded material for plant mix surfacing to producing sub-base material. Finishing one job, a rapid move to the next is a characteristic of the modern plant.



ON THE ROAD goes thousands of tons of base course to support the new and rebuilt highways of the West. This may be specified as minus $2\frac{1}{2}$ or 3 in. and the volume of output holds the key to success on the job. But the same specifications may hold rock chips within narrow limits of tolerance. Flexibility must extend to producing concrete aggregates.



INTO FINAL POSITION goes typical sub-base on an Arizona job under a pneumatic roller. Surfacing will be plant-mix using aggregate produced by the same plant. By this time the plant may have been dismantled and on the highway moving a hundred miles or more to the next job.

ally explode in a crusher. But they all make good granular bases and, crushed down in size, produce mineral aggregate for hot mixes, rock chips for seal-coat work, and concrete materials.

Many Western highway specifications call for a $2\frac{1}{2}$ or 3-in. minus product for the lower layer of sub-base work, which frequently represents a sizable part of the tonnage. The same specifications hold mineral aggregates and rock chips within narrow tolerance limits. Contractors must produce and install both kinds of material at the highest possible speed consistent with good workmanship, and do it over a vast territory.

It has been obvious for some time that a lightweight, portable plant should be developed which would incorporate large roll and jaw crushers with a much larger screening system and higher capacity conveyors than has heretofore been available in a portable plant. In $2\frac{1}{2}$ -in. minus gravel the 35-S has hit 450 to 500 tph. where the crushing ratio was small, and that takes enormous screen capacity.

High capacity is the key

Despite the swift growth of the rock production problem, with all its ramifications, development of equipment adequate to meet the situation for contractors kept pace, often with keen minds on contractor's staffs giving helpful suggestions and prodding. The result will be important to any stepped-up highway program in the future. One Colorado construction firm with highly portable equipment handled eight major contracts during the 1955 season, and a big part of the performance was its ability to move rapidly and keep its crushing and screening ahead.

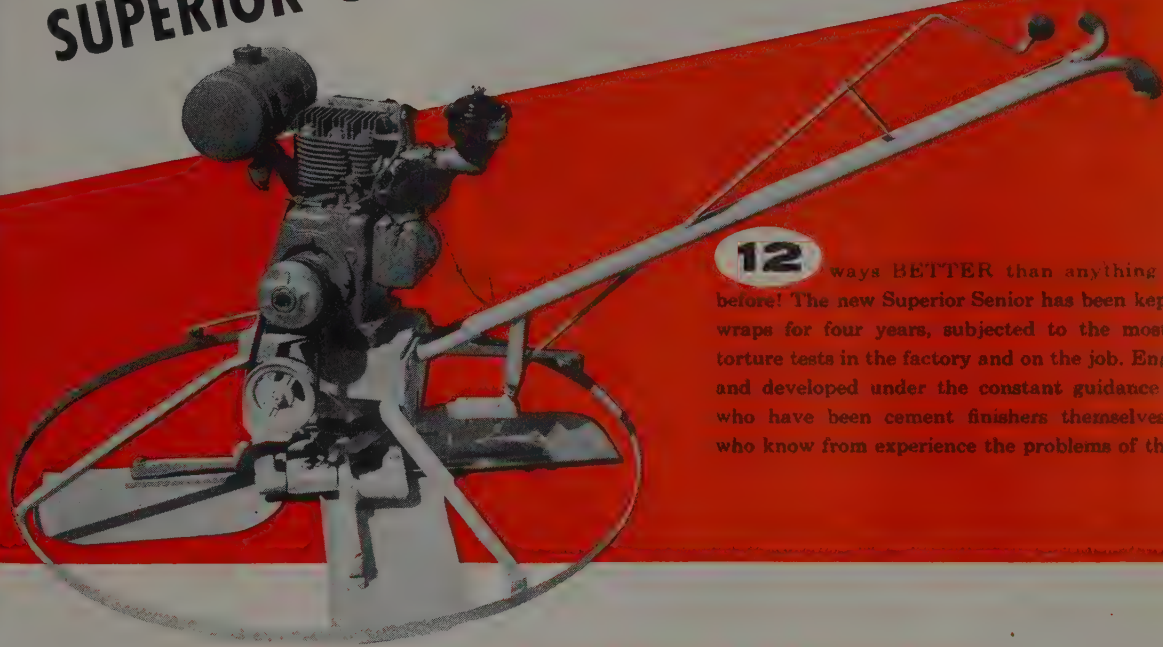
Development of a portable yet high-capacity plant introduced ideas that may improve less portable equipment. For example, one of the things which had to be researched and perfected on the Pioneer 35-S was a change in the jaw angle on its 10x36 primary reduction unit, so that the oversize cobbles could be pulled in at high speed. Hydraulic adjustment controls were adapted for the roll crusher, so that speedy changes are possible to meet varying pit gradations. A sand reject screen and conveyor can be added to the plant without distributing the normal $2\frac{1}{2}$ deck, 4x12-ft. vibrating screen.

Equipment now in use

During the 1955 season the new combination of lightness and high production was thoroughly proof-tested at several Western locations by Western contractors, in addition to its use under the same general conditions on several Eastern jobs. The project which Sorensen Bros.

(Continued on page 64)

The **NEW** SUPERIOR CEMENT FINISHING MACHINE



12

ways BETTER than anything offered before! The new Superior Senior has been kept under wraps for four years, subjected to the most severe torture tests in the factory and on the job. Engineered and developed under the constant guidance of men who have been cement finishers themselves...men who know from experience the problems of the trade.

CHECK THESE SUPERIOR FEATURES!

- 1 New gear box. Sealed and lubricated for life
- 2 Vibrationless action...less tiring to operator
- 3 Timken bearings on the main shaft
- 4 Roller bearings on the cross shaft
- 5 Twice the former bearing surface on gears
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- 8 New, Superior cast alloy steel arms
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- 10 Corrosive-resistant plastic paint in pleasing color
- 11 Two-pitch control crank adjusts blades accurately, and easily

- 12 Unusual handle design centers pitch blade control, protects Superior's famous mercury cut-off switch, lightens weight

Those are the NEW features...these "Superior" features are retained!

Floating and troweling blade combination (one set of blades for floating and finishing).

Tangential arm mounting on a 4 point suspension (greater stability, most accurate running balance).

Four blades for the truest, really level floor (a three legged stool fits any floor, a four legged stool needs a level floor).

Mercury switch for the greatest safety (insures against run-away, yet never a dead engine).

Distributors and dealers throughout the country (parts and service always available).

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MOUNTED on its own rubber, this Cat D364 power plant was used by Jack Parson of Smithfield, Utah, to drive this Pioneer 35-S plant. This type of hook-up eliminates use of flat-belt drives which can be troublesome during the summer showers common to the Western mountain country.

carried out was finished successfully with a minimum of delay and trouble.

One of Utah's most important reconstruction projects during the year was a section of U. S. 40 on the floor of Great Salt Lake Valley at Mills Junction, about 40 mi. west of Salt Lake City. Jack B. Parson Construction Co. of Smithfield, Utah, held the contract with the Utah State Road Commission. The job called generally for some realignment, an overall beefing up of sub-base, and new plantmix paving. In line with today's higher rock quantities, there was a 170,000-ton item covering 96,000 tons of 1½-in. minus base course material and the remainder in plantmix aggregate.

The time schedule was a tight one and getting the job done as rapidly as possible was the key to profit. The company purchased a Pioneer 35-S Duplex plant, equipped with standard 10x36 jaw crusher, a 30x24 set of rolls, and a 2½-deck, 4-12-ft. set of vibrating screens. To drive the plant at optimum capacity Parson selected a Caterpillar D364 diesel power package of the latest type. Such units, with a direct drive, are proving more and more popular. They eliminate normal belt slippage which flat-belt drives suffer during showers which often fall during the afternoon in our Western mountain country.

Hauled from Denver to Utah

According to Jack B. Parson, the machine proved its portability from the start and its production capacity about as soon. Parson sent a tractor and dump truck from Mills Junction, Utah, to Denver to pick up the 35-S. Six days from the time the trucks left Mills Junction the unit was at work in the pit. This six-day period in-

cluded travel both ways, delivery, and setup time. The latter item has been negligible, according to Parson, because the plant can be moved and set up again in the pit in about 30 min.

The Mills Junction pit is typical Western alluvium, with gradation from No. 200 to cobbles about 8 in. in diameter. In 1½-in. minus material Parson estimated a crushing ratio of about 45%. Working the plant 18 hr. a day to meet his tough time schedule, he was turning out 3,600 tons of base-course material and getting it laid down on the road.

Parson used an International TD-24 tractor and bulldozer to feed the plant. Use of one or more dozers has become more and more popular among Western contractors, chiefly because the dozer is a versatile tool and can be used in many phases of roadbuilding.

Through the plant

After being shoved to a trap by dozers, pit-run material passed through Parson's plant in a route especially designed for efficiency. A Pioneer 30G feeder delivered material evenly to the feeder conveyor, which carried it to the upper screen deck. Here oversize was scalped off and fed to the jaw crusher for reduction to a size small enough to be taken by the roll crusher. Crushed material from the jaw was carried by the return conveyor to the bucket wheel, which elevated it to the feeder conveyor. This material then reached the top deck of the screen, passed through it, and was sized on the bottom deck.

Crushed material and pit-run material which passed the top screen deck but retained on the bottom deck were fed to the roll crusher for re-

duction to specification size, or small enough to pass the bottom screen deck. Material from the rolls was carried by the return conveyor, bucket wheel and feeder conveyor in the same manner that crushed material from the jaw found its way back to the screens. Pay material was gathered in a large 4-yd. hopper under the screen, and was sent by high-speed 30-in. stacker conveyor to the truck loading point at the front of the plant.

Another Western job

Another Western contractor who tested this equipment over a full season was J. A. McPherson of Laramie, Wyo. McPherson purchased his 35-S in the early fall of 1954, and used it extensively on 140,000 tons of production covering ½, ¾, and 2-in. material, chiefly for sub-base rock and mineral aggregate. On one job, however, the plant was used to produce 10,000 tons of ½-in. chips, stockpiled for state maintenance forces.

McPherson's 35-S is driven through a direct-coupled hookup with a General Motors 6-71 diesel. According to the company's general superintendent, C. H. Acord, this plant has set some impressive records for production and economy. The figures on economy are of course a company secret, but the 35-S delivered 415 tph. in 2½-in. material, 350 tph. in 2-in. material, 2,800 tons in 8 hr. in 1-in. material, 190 tph. in ¾-in. aggregate, and 60 tph. in stone chip production where the crushing ratio was nearly 100%.

This plant has been used successfully to produce two sizes simultaneously, and has demonstrated other degrees of flexibility in places where excessive amounts of oversize had to be scalped off.

Portability is the key

Development of such productive equipment as this, which can be hauled down the highway without dismantling in a package 12½ ft. high, 38 ft. 8 in. long and well within most width limits, gives today's portable gravel plant an even more important role in highway and airport construction than it has ever enjoyed before.

Contractors with portable equipment in the Southern California area have in several cases set up portable crushers and screening plants to produce concrete aggregates, following a general shutdown of commercial rock producers in Los Angeles County by a teamsters strike. In many cases they were gratified to learn that their costs were not up and maintenance was not excessive even under severe crushing conditions.

Today's developments, as a result, can well become the requirement for tomorrow's highway construction job.

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HAUSEN

No one gets the "feel" self. That's why you'll Model 481 Asphalt Plant outstanding plant.

The HAUSEN Model and mixing controls are These eight switch lever trically energize the 4- open and close the var cause air operation is dices his fatigue ther operation is fast and o bin to truck.

DO YOU HAVE A COPY No. 800 ... describing Model 481 Asphalt Plant and - ask for your copy

ASPHALT PAVING PLANTS DUST COLLECTOR UNITS

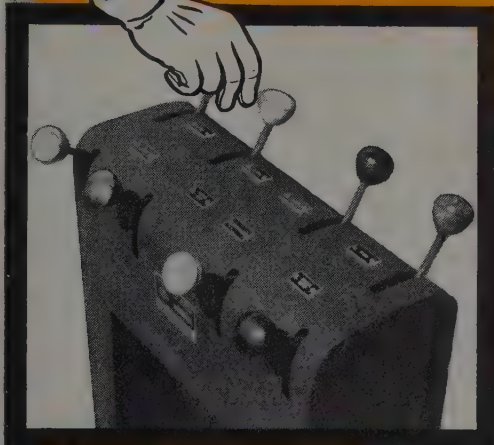
January 1956

**the man at
the controls
will tell you...**

The MADSEN MODEL 481

ASPHALT PLANT

- 1** ...is easier, less tiring to operate!
- 2** ...mixes faster, more thoroughly!
- 3** ...turns out more tonnage per 8-hour day!



Equipment that Serves.



No one gets the "feel" of an asphalt plant like the operator himself. That's why you'll find the men who operate the MADSEN Model 481 Asphalt Plants so enthusiastic in their praise for this outstanding plant.

The MADSEN Model 481 is an easy plant to operate. Weighing and mixing controls are conveniently located for finger-tip action. These eight switch levers (shown in the inset view above) electrically energize the 4-way solenoid-operated air valves which open and close the various gates and the asphalt injection. Because air operation is simple and easy for the operator, it reduces his fatigue thereby increasing his efficiency. And, air operation is fast and accurate which decreases time cycle from bin to truck.

Another original MADSEN feature which the operator likes in this MADSEN plant is the location of the operator station on the end of the plant away from fumes and heat where he has an unobstructed view of in-coming and out-going trucks.

The MADSEN Model 440 Twin-Shaft Pug Mill Mixer used in the Model 481 combined with the MADSEN Asphalt Pressure Injection System (Patented) ... gives the operator the means of getting the fastest and most thorough mixing action known to the asphalt paving industry.

Talk to the man who has operated the MADSEN Model 481 and check all of the engineering and mechanical advantages of this outstanding plant ... it's the asphalt plant you will want for the big road-building years ahead.

DO YOU HAVE A COPY OF BULLETIN No. 800 ... describing the MADSEN Model 481 Asphalt Plant in detail? If not — ask for your copy today.



Construction Equipment Division

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CONSTRUCTION EQUIPMENT DIVISION

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DUST COLLECTOR UNITS • ROAD PUG TRAVEL-MIX PLANTS • WEIGH BATCHERS • SUPER FLOAT AND JOHNSON FLOAT FINISHERS
ROYAL CROWN PUMP VALVES • ASPHALT AND FUEL PUMP UNITS

See manufacturer's listing page 39, Yellow Section

Are you taking advantage of

Faster depreciation schedules

in your equipment financing?

WHY HAVE you contractors, as a group, failed to take advantage of the 1954 law that permits you to schedule faster depreciation on your construction equipment? Most other industries that purchase heavy equipment, without exception, have moved fast toward getting the utmost advantage of the new law and its benefit on their federal tax. There must be reasons why contractors have been so negligent in using these advantages.

Possibly you contractors—at least small to medium-sized organizations—are not too familiar with the fine points of securing all possible tax opportunities in the running of your business. Or possibly, you only think of income tax matters at the close of the calendar year and there will be sudden activity in using the new principle with the filing of 1955 tax forms. And, it is quite possible that when the subject is presented by tax authorities it appears to be so complex that contractors get lost in trying to understand the procedure, while failing to see the important benefits. An expert is a person who usually is more interested in impressing you with his complete mastery of a subject rather than outlining simple benefits.

Perhaps we can help

Possibly the editors of **Western Construction**, who are impartial and who do not talk in expert terms, can outline a few simple facts to emphasize the advantages. Of course, this is not a new subject and the principle has been reviewed and discussed in publications and at meetings, but it does seem logical to try and help more contractors get the advantages that the new law makes available.

This is the simplest outline of the plan given to us by the experts:

Let's assume that you purchase a large piece of mobile construction equipment that may have a value of \$15,000. Now, it always has and always will be necessary for you to secure the approval of the Bureau of Internal Revenue in establishing the maximum period of time you will be allowed for setting up any type of depreciation schedule for this machine. Under the new law it is still necessary to have this approval before the advantage of depreciation begins to show on your federal tax form.

Let's assume that 5 years of useful life is the period agreed upon. In the past, the allowable straight-line depreciation would be at the rate of 20% per year, or \$3,000, which could be put down as an operating cost. This will add \$3,000 to the company profits for the year, and if you are operating in a 50% tax bracket means approximately \$1,500 more net after taxes. Of course, the second year, and each succeeding one, according to straight-line depreciation a further 20% will be allowed with the same results on profits and net.

What was wrong?

Now, let's look at the difficulties with this system and the fact that it is not in accord with the true picture. According to this system at the end of 3 years, 60% will have been depreciated and it is very questionable whether the trade-in or resale value of equipment represents the 40% that is left. It is true that with good maintenance such a piece of equipment will be operating at fair efficiency. However, this is a machine to produce income and not a luxury item like a private automobile. It has a value dependent upon what it will earn for you. Obviously at the end of 3 years it cannot be earning at the same rate as it did the first year, which means that the depreciation did not keep up with its decline in efficiency.

Another problem is that of obsolescence, and during the 3-year period newer models, larger machines, and more efficient units have come onto the market. They may have been purchased by your competitors and enabled them to bid lower prices. In other words, if the depreciation schedule is not realistic and does not enable you to replace such a machine after say about 3 years of hard service, you are penalized by the depreciation system.

Of course, you can continue to depreciate at 20% per year for five years, but at the end of that time this depreciation advantage will have been exhausted and the value of the equipment for trade-in will be getting down towards the junk level.

The problems of this type of depreciation schedule were recognized in the new law, which is an effort to bring the depreciation of construction equipment closer to reality.

Now, let's look at the schedule per-

mitted by the 1954 tax law and the advantages you can secure, and must secure if you are to maintain a competitive position in the contracting field.

The law permits several methods of accelerating depreciation and the actual details are not too important if you understand the distinct advantages. In general, they allow approximately two-thirds the value of the machine to be depreciated during one-half of the estimated life of the unit. Obviously this is faster than the straight line schedule just discussed. Further, this depreciation can be concentrated in the first year which is the season when the value of your machine drops off the fastest.

According to one of the approved methods the new law permits double the ordinary straight line depreciation to be taken the first year. On a 5-year life this would mean a 40% depreciation the first year and would be much nearer to actual conditions.

Another acceptable method which tends to sound complicated is normally referred to as the "sum-of-the-year's digits." Very briefly this method provides for adding up the digits representing the expected life of the machine (1 plus 2 plus 3 plus 4 plus 5 to a total of 15) and then taking the fraction represented by the largest digit divided by the sum—in this case 5 divided by 15—and permitting this depreciation the first year. The following year would be 4/15 and the next 3/15.

There may possibly be other variations, but they all are designed to allow you the advantage of putting more depreciation into your operating statement for the first year or two you use any piece of construction equipment.

The advantages

In spite of the fact that you may be forced to modify your cost accounting and your bookkeeping systems there is much to be gained and it would be worth the effort. Advantages are so extensive in reference to profit and the possibility of renewing your equipment fleet at more frequent intervals, it should be studied most seriously.

The best plan is to forget the details of such a program, leaving these to the tax expert or the auditor. He will be able to select the plan that will be most favorable to you and your operations.

See manufacturer's listing page 16, Yellow Section next page →

WESTERN CONSTRUCTION—January 1956

NEW
sets th

Here is the star
"production line
bomber base —
LOADER" trac
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Peter Kiewit So
progressive of he
"PAYLOADER"
their contracts
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THE FRANK
1956



NEWEST **PAYLOADER®** MODEL sets the pace for a bomber base

Here is the starting point of Peter Kiewit Sons "production line" for concrete placing at a large bomber base — a Hough model HH "PAYLOADER" tractor-shovel feeding a belt conveyor with sand and gravel from adjoining stockpiles. The task of the "PAYLOADER" is a crucial one, because failure at this point would bring the entire concrete-placing operation to a standstill.

Peter Kiewit Sons, one of the largest and most progressive of heavy contractors, have been using "PAYLOADER" tractor-shovels for years on their contracts all over the United States. You too, can depend on the proven performance of "PAYLOADER" tractor-shovels and on the large and reliable Distributor organization that sells and services them, both at home and abroad.

This model HH is one of three completely-new 4-wheel-drive "PAYLOADER" tractor-shovels. They all have a sensational new kind of bucket arm design that provides 40 degrees of bucket tip-back at ground level, powerful pry-out action plus unusual safety, stability and visibility factors.

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THE FRANK G. HOUGH CO. LIBERTYVILLE, ILL.
SUBSIDIARY—INTERNATIONAL HARVESTER COMPANY



See manufacturer's listing page 32, Yellow Section



Education for a career in contracting

Stanford University now offers a fifth year in the Department of Civil Engineering for those students planning careers with contractors. In addition to new courses in construction and in the Departments of Mechanical and Electrical Engineering, the graduate may take work in business, finance, law, management and labor relations.

EVERY YEAR more civil engineering graduates go to work for contractors and construction firms. This situation was recognized by the Civil Engineering Department at Stanford University about nine years ago with the offering of several courses designed to help these men in their work with contractors. The courses which formed this undergraduate "construction option" included Construction Estimates and Costs, Construction Equipment and Methods, Accounting, Business Law, and Industrial (Labor) Relations.

The combination of these courses and the increasing interest in construction on the part of civil engineering graduates has sent more than 25% of Stanford's civil engineers into construction organizations. What seems to be more significant is the fact that these graduates have appeared well qualified for their jobs since their service records are good in these firms.

As a further step, in construction engineering education, the Civil Engineering Department of Stanford has this year instituted a full graduate year of study leading to a Master's Degree. This program has been a natural development from the successful undergraduate program, and it was planned with the help of numerous contractors and the chapters of the AGC in San Francisco.

The background leading to the present development and some details of the planning of the course are reviewed in this article.

In 1947 Prof. C. H. Oglesby, who had had engineering experience in contracting, initiated the first construction courses in the Stanford Civil Engineering Department for those upper division students who wanted the opportunity to prepare for work in construction. The heavy load of required subjects did not allow for many optional courses, but two were initiated within the department and students were encouraged to select others in business administration and law, if time were available. The development proved a success not only as to the number of students selecting these courses, but also in terms of the performance of graduates who moved into construction organizations.

Graduate year considered

During the last few years the success of the initial program led to the natural study of its expansion into graduate work.

Civil engineers and educators alike have long recognized that technical advances are crowding the standard four-year course to the exclusion of many desirable courses, both in engineering and more general education. The crowding of the regular course was even more obvious for students electing the "construction option" because contracting is a business and suggested the desirability of electives from other departments of the university.

About a year ago this study of a full graduate year took definite shape.

Under the direction of Professor Oglesby and the Civil Engineering Department, active and successful contractors, many of them Stanford graduates, were questioned as to whether another year of study for these civil engineers would be worth the time, as compared to a year of experience in contractors' organizations. In other words, would the contractor rather have the four-year man and begin to train him, or would he prefer to see him take the proposed graduate year believing that this additional college work would be an advantage in his long range career within the organization. The responses indicated the subject was worthy of more detailed study.

Contact was made with the Northern and Central Chapters of The Associated General Contractors, and with AGC members in Southern California. Meetings were set up with selected groups, representing small and large contractors doing all types of work. These groups discussed the subject and many of its conflicting aspects. The overwhelming consensus indicated approval of the plan, and the active support of the AGC groups was offered and accepted.

Planning the graduate year

Next came specific plans for arranging a fifth year with courses available in the university that would represent maximum utility to these graduates in their chosen career.

At the outset it was agreed that the

Utilities pipe
Averages
2 to 4 jobs

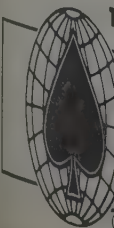
1000 feet of complete construction—trenching, laying, backfilling and compaction—is an average work for each crew of men. Inc., pipeline contractor of Denver. work is on 2, 4- and lines for the many developments in the L

With a Cleveland Trenching up trench at an average of 20 feet per minute. Linneman crew will do complete pipeline jobs—day-jobs that run from feet each in length. Crews has a record of 7 complete jobs

Currently operating 7 Trenchers. Linneman in utilities work—gas, sewer line construction. minded and especially name-conscious, he has been employed Cleveland since he began his business in 1946.



Fast portability of equipment in Linneman's tight-schedule. His Cleveland can be their low-bed trailers in 10 minutes time, ready to roll job to job at legal limit speed.



Utilities pipeline contractor

Averages 20 feet of trench per minute, digs 2 to 4 jobs per day with each of his Clevelands

1000 feet of complete pipeline construction—trench digging, pipe-laying, backfilling and backfill compaction—is an average day's work for each crew of F. H. Linneman, Inc., pipeline and utilities contractor of Denver. Most of this work is on 2-, 4- and 6-inch pipelines for the many new housing developments in the Denver area.

With a Cleveland Trencher opening up trench at an average rate of 20 feet per minute, a typical Linneman crew will do 2, 3 or 4 complete pipeline jobs in an 8-hour day—jobs that run from 50 to 1000 feet each in length. One of these crews has a record day's production of 7 complete jobs.

Currently operating 7 Cleveland Trenchers, Linneman specializes in utilities work—gas, water and sewer line construction. Equipment-minded and especially maintenance-conscious, he has consistently employed Clevelands ever since he began his contracting business in 1946.



"Maintenance costs on Clevelands are appreciably lower" says owner of 7

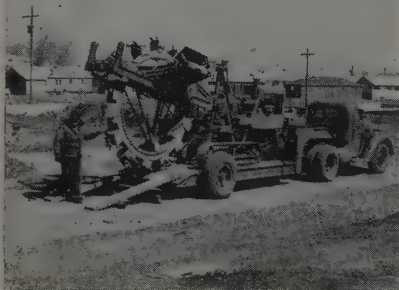
Here is what F. H. Linneman has to say about trenchers:

"In the type of work we most generally perform, in the city especially, we have found Clevelands best suited to our operations because of their narrow-width construction, compactness and speed. They enable us to work in close places and keep trenching ahead of follow-up operations, a decided advantage.

"We have employed Clevelands in our work since we began contracting in 1946. We have seven of them at the present time, the oldest being a Cleveland Model 95 purchased in

1948. We have no record of the miles this machine has dug, but feel that it would be a near-record. Our maintenance costs on it have been extremely low.

"Our over-all maintenance costs on Clevelands are appreciably lower than on other trenchers we have operated. This is another reason why we have purchased more Clevelands than any other make. We have also found it easier to train operators for Clevelands than for any other make. Our newest Cleveland, a "240," was delivered only last week by H. W. Moore Equipment Co., here in Denver."



Fast portability of equipment is essential in Linneman's tight-scheduled operations. His Clevelands can be loaded on their low-bed trailers in less than 10 minutes time, ready to roll safely from job to job at legal limit speeds.

THE CLEVELAND TRENCHER COMPANY • 20100 St. Clair Ave. Cleveland 17, Ohio



CLEVELAND

See manufacturer's listing page 16, Yellow Section

four-year graduate had taken almost all the necessary courses in technical civil engineering but that he needed:

1—Courses which would extend knowledge of the actual operation of construction companies, and of banks, insurance companies, bonding companies, and unions as they affect contracting.

2—Courses teaching as much about equipment and its uses as could be done effectively at the university. Special attention would be given to techniques for determining efficient and safe equipment use, and to methods for finding equipment costs, including critical study of depreciation and income tax problems.

3—Courses available in other university departments based on the accepted fact that contracting is a business with important problems in personnel and labor relations, finance, and law.

To augment instruction within the department, John W. Fondahl joined the staff from the well known contracting firm of Winston Brothers Co. A graduate of Dartmouth College, he had had previous engineering teaching experience as well as four years of work in this contracting organization.

Some precedent for laying out the graduate year of study had been established. During the past several years a few four-year graduates had remained for a fifth year taking courses to prepare themselves for work in construction. As a result the department had established and proved some basic ideas as to courses that were available and valuable.

New courses established

Within the Civil Engineering Department three new construction courses have been developed to serve as the nucleus for the graduate year. They are: (1) Construction Administration, (2) Advanced Construction Equipment and Methods, and (3) Special Construction Problems. These courses, however, represented about one-fifth of the student's time and it was necessary to select and evaluate other courses from the engineering school or other sections of the university.

To guide in this selection, contractors were questioned with an extended list of courses and asked to rate them as to their value to a potential employee. This contact with contractors provided opportunity for the faculty to question construction executives on the existing engineering course, the value of the proposed fifth year and as to whether the contractor would consider employing the student during the summer.

Based on the results of the questionnaire, confirmed by many individual discussions on the subject, an extended list of courses is now suggested to the graduate student. In general these fall into two categories:

1—Courses in the School of Engineering, civil and other departments, which would extend and broaden knowledge of engineering fundamentals. Courses in the Civil Engineering Department include advanced foundations, advanced structural design, prestressed concrete design, theory of structures, and hydraulics. In the other engineering departments there are courses in economics and depreciation, thermodynamics, welding and heat treating, time and motion studies, electricity and electronics. The courses in the Civil Engineering Department represent those available but not taken by the four-year student who had elected the construction option, as well as graduate courses in structures and hydraulics. The courses in other engineering departments were selected to give the student added knowledge in the fields of mechanics and electricity, so essential in the operation of a construction plant and other contracting operations.

2—Outside of the engineering departments, the university offers many helpful courses relating to business, law, and applied science. Some of these would be: Cost Accounting, Business Finance, Industrial Management, Psychological Aspects of Business, General Psychology, and several courses in geology and mining.

Each of the graduate students will be permitted to choose from these available courses in the direction of his principal interests, his needs, and his appraisal of his future career in construction.

Contacts off the campus

Because Stanford University is situated in a region of extensive and varied construction operations, it will be possible for the students to make frequent excursions to visit active jobs. It will also be possible for them to observe and prepare reports on construction procedures, with the active cooperation of contractors. Furthermore, San Francisco is the headquarters of many large construction organizations, representing important contacts and potential employment.

Lastly, this situation makes it possible for the department to arrange seminar sessions with outstanding men in the field of construction, business, and government. This cooperation in connection with the course permits potential employers to assist in training, conferences and supplying part-time employment for these graduate students. During the autumn quarter, for example, the following persons spoke to the students:

Richard T. Lynch, Argonaut Insurance Exchange.

Cecil R. Alexander, United States Fidelity and Guaranty Co.

Robert G. Winden, Wells Fargo Bank.

Lyman Wilbur, Vice President, Morrison-Knudsen Company, Inc.

A. T. Evans, General Manager, Pacific Bridge Co.

Herbert R. Westlund, Chief Safety Engineer, Argonaut Insurance Co.

James Ferrin, Personnel Manager, Guy F. Atkinson Co.

Wayne S. Byrne, Asst. to the Vice President, Utah Construction Co.

Fred Jorgenson, Secretary, Council of Carpenter Union Business Agents.

Gordon Johnson, Attorney, Thelen, Marrin, Johnson & Bridges.

With the background of nearly ten years in presenting courses designed to help civil engineering graduates in construction careers, the instituting of the graduate year was based on a friendly and cooperative attitude on the part of the construction industry. Furthermore, it was merely an extension of work already tested and proven by the department. The active participation and backing of the AGC indicated the collective interest of contractors. Past records of employment, as well as the success of these graduates, showed that the program had a sound foundation.

Results with the initiating of the program in the fall of 1955 confirmed the acceptance of the program. Enrollment in the course has exceeded expectations and nine students are officially enrolled in this graduate year of Construction Engineering study. Obviously, the course is open to four-year graduates in Civil Engineering from other universities who desire to take such additional study. Further detailed information concerning the course can be secured from the Department of Civil Engineering, Stanford University, Stanford, California.

AGC looks at 1956

A STEADY SURGE toward a new record-breaking volume of construction, with exceedingly intense competition for an increasing amount of work coming on the market, is expected for the construction industry during the next six months. This is the highlight of a telegraphic survey made by The Associated General Contractors of America.

Construction activity in 1955 was 13% ahead of the all-time record which was established in 1954, but from 85 to 90% of the general contractors in the building, highway, and heavy construction fields expect as much or more new work to come on the market in the next six months. A few areas expected declines.

Materials generally are expected to be in adequate supply, although it was expected that deliveries of steel and cement would continue to be slow as construction activity continues at record levels. Most predicted that construction material prices would increase along with the prices of other industrial materials.

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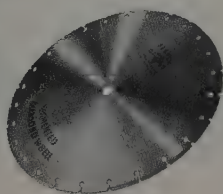
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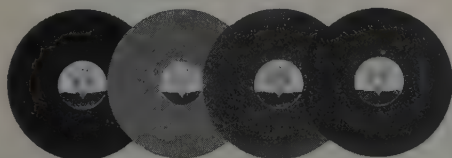


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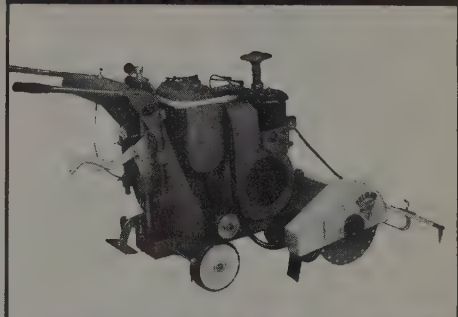
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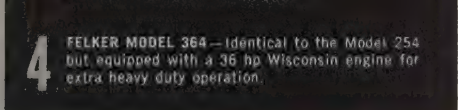
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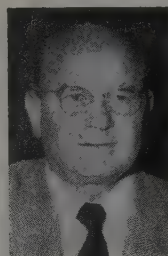


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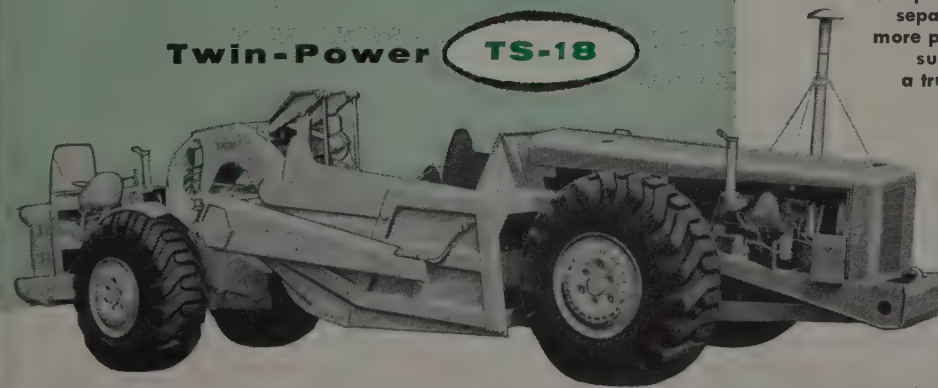
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This 15.5 yd. Scraper has built-in performance that gets more work done. It is powered by a 300 h.p. engine with either a 10-speed transmission or Torqmatic Drive—has a heaped capacity of 21 yds. at 1:1 slope, 18 yds. at 3:1. Cutting width is 10 feet. Drive tires are 24.00 x 25 standard with 29.50 x 25 available as optional equipment. The extra speed and stability of this "Euc" really pays off on long hauls.

Twin-Power TS-18



For profitable scraper production and performance

S-18



With Torqmatic Drive and 300 h.p. engine, the S-18 hauls heaped loads up to 24 yds. at fast travel speeds—struck capacity is 18 yds. Standard tires are 27.00 x 33 with 33.50 x 33 optional for maximum traction and flotation on tough jobs. In spite of its size and capacity, the S-18 makes a non-stop 180° turn in only 36 ft.

The TS-18 is the most recent development in the Twin Power principle pioneered by Euclid. It is powered by two 218 h.p. engines—one in the tractor and one behind the scraper bowl. Both engines drive through separate Torqmatic Drives. Where even more power is required the tractor can be supplied with a 300 h.p. engine. It is a truly self-loading machine due to its tremendous power and traction—works on grades and under conditions that stymie other scrapers and is a one-man earthmoving outfit. Standard tires are 27.00 x 33—with 33.50 x 33 available as optional.

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Results of the WASHO road test

A 4-year study of bituminous highway design and construction has developed the most complete information ever on the service of asphalt surfacing supported by various thicknesses of base material under the repeated loading of heavy trucks.

In its 212-page report, the Highway Research Board presents findings from the WASHO Road Test that will be studied in detail for years by highway design, construction and maintenance engineers in all the Western states. For those who want all the data of the tests and the results, nothing short of the complete report will be adequate.

At the other extreme, everyone interested in any phase of highway work has noted reports in the daily press with something less than complete satisfaction. In many cases results were summarized without sufficient background information.

To fill the gap, and because Western Construction serves basically the WASHO region this re-

view recognizes the obligation to present sufficient information on the results of the test program in enough detail to enable the average engineer or contractor who is interested in highway design or construction to appreciate the results and appraise the conclusions reached in the report.

Editor.

WESTERN HIGHWAY ENGINEERS are now evaluating the results of the WASHO road test following their release by the Highway Research Board. In June 1951, the Western Association of State Highway Officials took the initial action which started this four years of field research on bituminous highway paving. The test road was built in southeastern Idaho and the WASHO program was carried out under the direction of an advisory committee with E. V. Miller, chief engineer of the Idaho Department of Highways, serving as chairman.

Financing of the test program came from contributions provided by the 11 Western states and Texas and Alaska in the amount of \$486,000. The second largest contribution of \$280,000 came from the Bureau of Public Roads in the form of engineering personnel, instrumentation and other equipment. Trucks used in the test were loaned by manufacturers and the depreciation on these vehicles was estimated at \$50,000. Similarly trailers were loaned by manufacturers, and depreciated \$20,000, as their contribution. Finally 23 petroleum companies contributed fuel and lubricants valued at \$24,000 to power the test fleet. Other cooperating agencies carried out special tests both at the site and in laboratories. In the aggregate, the project was estimated to have cost a total of \$900,000.

Design of the test road

Briefly the test sections are described as follows:

Special pavement sections were built at a selected location considered to be representative of large areas of the Western states as to soil, cli-

mate, and other factors. The test sections were laid out along the tangents of two practically identical loops.

Each loop had two 1,900-ft. tangents made up of five 300-ft. test sections separated by four 100-ft. transition sections. One tangent in each loop was surfaced with 4 in. of hot plant-mix ($\frac{3}{4}$ -in. maximum-size crushed gravel with 120-to-150 penetration asphaltic cement) while the other tangent in each loop was surfaced with 2 in. of this mix. A crushed-gravel base having a compacted thickness of 2 and 4 in. underlaid the 4- and 2-in. asphaltic surfacing, respectively. Thus, the combined thickness of surfacing and base courses (subbase not included) was 6 in. in all the regular test sections.

In one of the five sections on each tangent, the 6-in. combination of surfacing and base was laid directly on the basement soil (A-4 silt processed to a depth of 2 ft.). In the remaining four sections on each tangent, a subbase course (2-in. maximum-size gravel) was provided. The thicknesses of the subbase in the four sections were 4, 8, 12, and 16 in. Thus, the total thickness of pavement structure over the basement soil varied from 6 to 22 in. in 4-in. increments in each of the four test tangents.

A 50-ft. length of shoulder on six of the sections was also paved with hot plant-mix for an additional width of 6 ft. Gravel base and subbase were carried to the ditch slope at full depth.

Test traffic units and dates

Regular test traffic consisted of tractor-semi-trailer combinations with the tractor drive axles and

trailer axles loaded to specified weights. In one loop, 22,400-lb. single-axle vehicles were operated in the outer 12-ft. lane, and 18,000-lb. single-axle vehicles were operated in the inner lane. In the other loop, 40,000-lb. tandem-axle vehicles ran in the outer lane and 32,000-lb. tandem-axle vehicles in the inner lane. The loops were arranged and the vehicles operated so that no vehicle with axle load greater than that specified for a particular lane would operate on that lane.

On Nov. 6, 1952, after completion of preliminary testing and installation of instruments, regular traffic operation was started. Except for one spring and two winter periods, it was continued until May 20, 1954. In all 238,000 heavy axle loads were applied to each test section.

Objectives of the study

The principal purpose of the research was to determine, if possible, the thickness of flexible pavement required to sustain each of these axle loads over a period of years under environmental conditions common to many of the Western states. To determine the answers to this and other similar questions and to learn something of the mechanics of pavement failure, a comprehensive series of observations and measurements was undertaken.

Instruments were provided to measure deflections of the pavements under moving loads, rutting or distortion in the wheel paths, transverse movement of the granular base materials, and sub-surface moisture content. Daily observations were made of the appearance of the surfacing in each test section. Distress in the form of cracking of the asphalt

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— Pangia Construction Company, Atco, New Jersey



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And only an International Drott has the shock-swallowing protection of patented Hydro-Spring—that reduces the effects of carrying, dumping, or other impact forces to *operator and tractor* by 67 per cent, or more—increases equipment life by a reported 25 per cent. *Hydro-Spring also eliminates most hydraulic hose failures!*

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The pictures tell you what gives as this TD-14A Skid-Shovel, owned by Pangia Construction Company, Atco, New Jersey, slams through a 150-cubic yard concrete excavation job—for a new Sinclair station in Camden.

"We are ripping out concrete slab and footings that a $\frac{3}{4}$ -yard power shovel couldn't touch," reports Owner Albert J. Pangia. "The operation is fast because of the breakout action. We use our TD-14A Drott Skid-Shovel for everything."

• Why not size-up these big advantages that give you new loader job range, yardage capacity, and profit opportunities? See your International Drott distributor for a Skid-Shovel or Four-In-One demonstration!



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concrete was carefully noted and the progression of distress towards ultimate failure (in those sections where failure occurred) was recorded.

A summary of the findings

This official summary of results was prepared by Fred Burggraf, director, Highway Research Board.

1—On the basis of engineering analysis, the minimum thicknesses of pavement structure with 2-in. surfacing of asphaltic concrete that would have been adequate to carry the 238,000 applications for the four test loads, were 16, 19, 17, and 20 in. in the outer wheel path for the 18,000-lb. and 22,400-lb. single axle and 32,000-lb. and 40,000-lb. tandem axle loads respectively. In the inner wheel path, the 14-in. thickness of pavement sections was undamaged by any of the four loads. Comparable values for the 4-in. asphaltic-concrete pavement, outer wheel path, were 10 in. for the first three loads and 14 in. for the 40,000-lb. tandem-axle load. For the inner wheel path, they were 6 in. for the two single and 10 in. for the two tandem-axle loads.

2—The behavior of the pavement with the 4-in. surfacing was far superior to that of the pavement of equal structure thickness with the 2-in. surfacing of asphaltic concrete for the life of this test track.

3—Distress in the outer wheel path was considerably in excess of that in the inner wheel path. Surfacing of the shoulders in three of the test sections in July of 1953 proved to be highly effective in retarding distress in the outer wheel path. Both facts suggest that the outer wheel path with paved shoulders is the equivalent of the inner wheel path and

testify to the advantage of shoulder paving.

4—Development of structural distress in the pavement sections was confined largely to two critical periods of traffic operation. The most severe critical period in terms of rate of development of pavement distress started June 11, 1953, when test traffic was resumed for the summer and adverse subsurface conditions associated with spring thaw were still present. In this period, June 11 to July 7, 1953, 27% (9,970 sq. ft.) of the total distress (36,928 sq. ft.) developed under 0.7% of the total test-load applications. Most of this distress occurred in the thin sections of 6- and 10-in. structure thickness. In the second period, February 17 to April 7, 1954, 40% (14,770 sq. ft.) of the total distress developed under 13% of the applications. Conversely, when conditions were favorable (July 24 to Nov. 21, 1953) 106,000 load applications (45% of the total) caused only 551 sq. ft. of distress, or approximately 1.6% of the total.

5—Although the weather was less severe than normal for the area, based on records of average temperature and total precipitation, it was considered reasonably representative of large areas of the West.

6—Based on distress that occurred in the section with 4-in. surfacing, a tandem-axle load of 28 kip would have been equivalent in this test to a single-axle load of 18 kip. Similarly, a tandem-axle load of 33.6 kip would have been equivalent to the 22.4 kip single-axle load. Comparisons for sections with 2-in. surfacing, based on a graphic analysis which discounted the relatively erratic behavior of two of the ten sections, showed that a tandem-axle of 28.3

kip in this test could have been equivalent to the single-axle load of 18 kip. Similarly, a tandem-axle load of 36.4 kip could have been equivalent to the 22.4 kip single-axle load. In general, the distress caused by tandem axles was equivalent to that caused by single axles of the order of two-thirds of their weight.

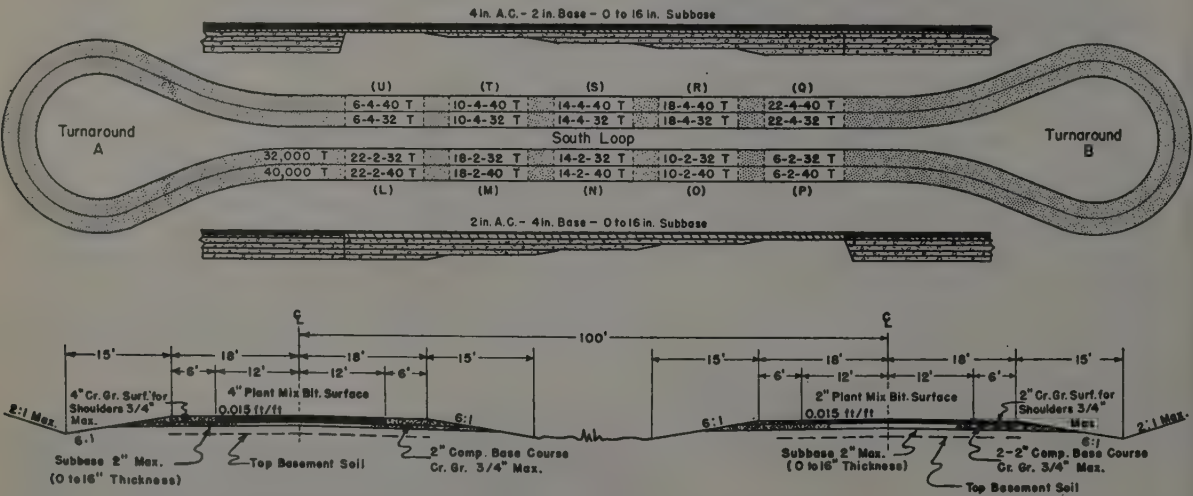
7—For this project the total area of all types of distress was 13.8% greater under the 22.4-kip single-axle load than under the 18-kip single-axle load and 48% greater under the 40-kip tandem-axle load than under the 32-kip tandem-axle load.

8—Prior to the occurrence of total failure, distortion of the pavement evidenced by the formation of rutting in the wheel paths was confined primarily to the upper 6 in. of the structure. Moreover, the rutting which developed in the wheel paths was not necessarily associated with cracking.

9—Elastic deflections up to about 0.045 in. measured at creep speed were not associated with the development of distress in any of the sections during warm weather. During cold weather, deflections no greater than about 0.030 in. were not associated with distress. Repetitions of elastic deflections in excess of these values were responsible for cracking and eventual failure of the surfacing.

10—Insofar as the condition of the basement soil was related to the performance of the test pavements, the moisture content of the uppermost layer was the most significant factor.

11—Penetration of the 32 F. isotherm below the surface of the basement soil was approximately the same regardless of depth of covering structure, indicating that the struc-



THE TWO TEST loops were alike in dimensions, with two 1900-ft. tangents made up of five 300-ft. test sections separated by four 100-ft. transition sections. One tangent in each loop was surfaced with 4 in. of plant-mix (120-150 penetration asphaltic cement) while the other tangent was surfaced with 2 in. of this mix. A crushed-gravel base

was placed under these surfaces to bring the total up to 6 in. (surfacing plus base.) On one of the five test sections this 6-in. combination was laid directly on the basement soil. In the other sections a sub-base course was added in thicknesses of 4, 8, 12 and 16 in. Shoulders were surfaced along some sections during 1953.

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turing materials had little or no insulating qualities.

12—Deflection of the pavement surface under traffic was influenced by vehicle speed, temperature of the surfacing, load, moisture content of the top layers of basement soil, and possibly by other factors. The deflection was maximum under a static load. Where the pavement surface was relatively smooth, deflections decreased as speed increased up to about 15 mph., after which deflections decreased but slightly as speed increased. Deflections were greater as temperature of the surfacing increased. Deflections of the pavement surface under traffic were approximately proportional to the applied load. Tandem axles with a total load of approximately 1.8 times a single-axle load produced equal maximum deflections. It was found that deflections increased with increase in moisture content of the top layers of basement soil above 22%.

13—Asphaltic-concrete specimens from the test pavements had appreciable flexural strength when tested at a rate of loading equivalent to moving truck loading. Their strength varied with temperature and appeared to be higher at moderate temperatures than at extremely low or extremely high temperatures.

14—For the type of loading employed on the test road, there was no significant difference between the magnitudes of the wheel loads transmitted in the outer wheel paths and those in the inner wheel paths due to the crown of the test pavement.

Discussion of the findings

In general, the behavior of the test sections was rational, and findings were in line with information reported elsewhere. The main value in a test of this type lies in the fact that it provides numerical values to be assigned to variables, the general influence of which may be known or at least surmised but whose degrees or amounts of influence are unknown.

To cite a simple example, any engineer would expect that the heavier loads would cause more damage than the lighter loads, or that thicker pavements would support heavier loads than thinner pavements, but tests of this type are necessary to provide data as to the degree of difference involved.

Perhaps two of the most important findings of the test, insofar as the use that may be made of them in design of new highways, are those dealing with the benefits ascribed to the thicker surfacing and to the paved shoulders. Regardless of the axle load, overall pavement structure thickness, or conditions of the sub-surface materials, the performance of those test sections with 4-in. surfacing proved far superior to that of equivalent sections with 2-in. surfacing. Five of the test sections with

2-in. surfacing had failed completely and were not available for observation during the last few months of the test.

The superior behavior of the 4-in. surfaced sections was due to the additional slab strength of the thicker surfacing. Other conditions being equal, deflections in sections with 2-in. surfacing were almost always somewhat higher than those in sections with 4-in. surfacing. High flexural strength of the asphaltic concrete supports the "slab-action" theory and helps account for the noted reductions in deflection.

Benefits derived from paved shoulders were demonstrated in two ways: (1) by observation of the short special sections along which the shoulders were paved and (2) by comparison of the behavior throughout the regular test sections of the pavement in the inner and outer wheel paths. Failures were noted early in the spring of 1954 in the parts of sections that had not been provided with paved shoulders. It was not until many more heavy-axle loads had been operated that any significant failures were noted in the parts of those sections with paved shoulders, and even at the end of the test the visible evidence of the protection afforded by the shoulder pavement was striking. This is in line with the experience in several Western states where paved shoulders have been found advantageous.

It is believed that the beneficial effect of paved shoulders is brought about partly by their water-proofing ability and partly by the fact that, with paved shoulders, the conditions of interior rather than edge loading always apply. (The paved shoulders discussed here are of hot plant-mixed asphaltic concrete of the same thickness as that in the traffic lanes.)

Flexural strength as slab

There is little doubt that at the WASHO test the asphaltic-concrete surfacing possessed appreciable flexural strength and acted as a slab. Paved shoulders offer lateral support; furthermore, the asphaltic concrete has greater cohesion than most granular bases and, usually, internal friction properties nearly as great.

In the regular test sections, comparison of the inner and the outer wheel paths is based on the fact that the outer wheel path had no paved shoulder and that the pavement in the outer wheel path acted as shoulder pavement insofar as the inner wheel path was concerned. After the first few trips it was apparent that the outer wheel paths were inferior to the inner wheel paths in ability to support the test loads. This remained true throughout the test regardless of axle load, structure thickness, or other considerations.

There was little difference between the measured strength characteristics of the subbase gravel (2-in.

maximum) and the base gravel (3/4-in. maximum). They were both produced from the same source. In all analyses, the two layers were considered together as a single layer of granular material supporting the surfacing. Thus, the test sections were considered to be of five overall structure thicknesses (6, 10, 14, 18, and 22 in.) made up of either 2 in. or 4 in. of surfacing with the remainder gravel. The actual structure thicknesses, as constructed, were generally slightly less than the planned values. Therefore, even with greater than ordinary construction control, it is difficult to build granular bases exactly to the thickness planned. For this reason there is need for reasonable factors of safety in design formulas.

Distress was progressive

During the operation of test traffic, distress of the test pavements developed in a generally orderly manner, starting in the thinnest (6-in.) sections and progressing towards the thicker sections. All 6-in. sections ultimately failed to a point where they were considered inadequate for any of the test loads during critical periods. Furthermore, serious failures occurred in the 10-in. sections with 2-in. surfacing under all loads and appreciable distress developed in the 10-in. pavement with 4-in. surfacing under the 40-kip tandem-axle load.

The 14-in. sections, when surfaced with 4 in. of asphaltic concrete, appeared to support all of the test traffic, except for an isolated spot failure under the 40-kip tandem-axle loads. But where the surfacing was only 2 in. thick, the 14-in. sections began to appear inadequate after the beginning of the second critical period, February 1954. The same was true of the 18-in. sections with 2-in. surfacing under the 18-kip single-axle and 40-kip tandem-axle loads.

The overall-structure thickness played an important part in the ability of the test pavements to withstand traffic. But, at least for the relatively short duration of the test, the thickness of surfacing must be considered along with the structure thickness and cross-section in any attempt to determine designs adequate for heavy loadings.

The discussions in the paragraphs that follow represent the opinions of the engineers who conducted the test as to the reasons for failure of these particular pavements.

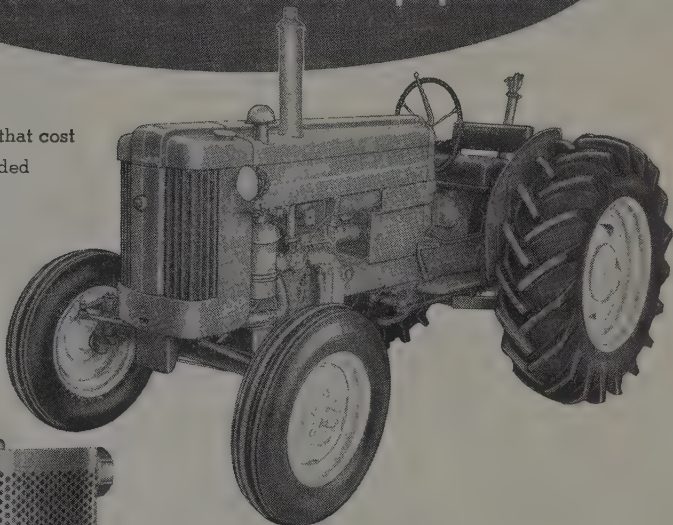
A strong pavement structure serves to minimize movements in a resilient basement soil. Where the test-road structure did not possess adequate strength (as in the thin sections and in the thicker sections with 2-in. surfacing) the basement soil alternately compressed and rebounded under moving loads. This action was, of course, accompanied by a flexing of the structure compo-

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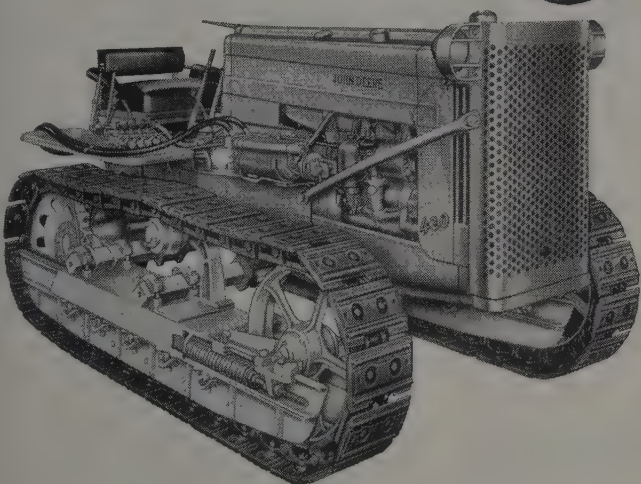
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nents. This flexing or bending of the granular layers caused apparent changes in their characteristics. Since the gravel had appreciable evidence of cementing properties, it is likely that the change in its supporting value may have been due partly to a breakdown from a lightly cemented mass into an ordinary, noncohesive gravel form.

In unfailed areas where the surfacing was removed for subsurface testing it was necessary to use a pneumatic pavement breaker to break through the granular material, while in failed areas or areas of incipient failure the material could be scooped out easily by hand. This loss of supporting strength of the gravel, of course, led immediately to increases in deflection and rebound over the resilient basement soil and subsequent acceleration of the strength loss.

During the time that these changes were taking place, the asphaltic-concrete surfacing, because of its slab strength, was playing a part in limiting the deflections. As the deflections increased, due to loss of gravel strength, the flexure of the asphaltic concrete increased in the thinner sections until the surfacing cracked. The 4-in. surfacing was able to limit deflections to a greater degree than the 2-in. surfacing. Thus, under 4 in. of surfacing the deterioration of the gravel structure was retarded. On the other hand, once the surfacing had cracked it no longer acted as a slab, and again the process of failure was accelerated.

Advantages summarized

Summarizing, the advantages of the thicker structures lay apparently in their ability to limit deflections and, consequently, retard their own deterioration. There was no evidence in the WASHO test that failure is associated with consolidation of the basement soil or compaction of the pavement components. Failures on the WASHO test were primarily due to bending and flexing over a resilient soil and not attributable to plastic deformation resulting in displacement of the soil.

Observations of the test pavement performance indicate that the heavier loads caused more distress than the lighter ones. However, comparisons of the effects of traffic or the performance of the pavement based on the areas damaged are complicated by the fact that, for example, the 6-in. sections with 2-in. surfacing were completely destroyed by all of the four different axle loads.

Based on an area relationship in the 6-in. sections, it could then be said that there was no difference in the destructive effect of any of the vehicles involved. This, of course, is not borne out by observations on the heavier sections. While there was no exact proportionality based on area damaged, it is evident that the

heavier loads are associated with more overall damage than the lighter ones.

A comparison of the effects of different axle loads based on equivalent amounts of damage is also worthwhile. For example, when only those areas that had failed to such an extent as to require their complete replacement (deep patch) are considered, the ratios of failure for the four loads, considering that under the 18-kip single-axle load as 1, were as follows:

Axle Load	Ratios of Area Requiring	
	Deep Patch	
18-k S	1	
22.4-k S	1.28	
32-k T	1.18	
40-k T	1.56	

Under the conditions of the test and based on an analysis of distressed area involving interpolation, in the sections with 2 in. of surfacing a tandem-axle load of 28.3 kip apparently would have been equivalent to the 18-kip single-axle load, and a tandem-axle load of 36.4 kip would have been equivalent to the 22.4-kip single-axle load. In the sections with 4-in. surfacing, comparable values would be 28.0-kip tandem for the 18-kip single and 33.6-kip tandem for the 22.4-kip single.

Based on deflections alone, a tandem-axle load of about 30 kip is about equivalent to a single-axle load of 18 kip, and a tandem-axle load of about 40 kip is equivalent to a single-axle load of 22.4 kip. In sections with 2-in. surfacing, tandem-axle vehicles loaded to approximately twice the single-axle loads caused equivalent deflections.

A large number of samples were taken to determine the moisture content of the basement soil. The data indicate that failures occurred in the thinner sections when the average moisture content of the basement soil was in excess of about 23%. It is the condition of the uppermost layer of the soil that determines the performance. In other words, only a relatively shallow layer of the soil may be related to deflection and, consequently, to pavement behavior. Deflections increase with increase in resilience, and the deflections apparently did not reach a degree of magnitude sufficient to cause distress within the period of the test until a moisture content around 23% was reached.

Measurements show a consistent relationship between the temperature of the asphaltic pavement and the magnitude of deflection. While the deflections were obviously influenced by the moisture content in the basement soil, it is also evident that they tend to decrease with a drop in the pavement temperature. The question of damage, however, is more complex. An asphaltic-concrete pavement surfacing can withstand considerable deflection while the surface is warm but may develop cracks or

signs of distress under smaller deflections when it is cold.

It was planned that construction of the test road should conform as nearly as possible to present-day practices. The combined thickness of all components was calculated by various design criteria, assuming a traffic volume of 4,000 vehicles per day including 1,000 commercial vehicles of which 400 were three-axle trucks or heavier.

Prior to construction, several states were sent samples of the soil and the gravel used for sub-base and base material. The design thicknesses of the pavement structure submitted by the states for these conditions averaged about 18 in. This thickness was used as a basis around which several thicknesses of structure over basement soil were provided.

There is no direct method for expressing test traffic in terms similar to the design criteria which would be presumed for normal traffic over a period of years. However, the results of the test indicate that the 18-in. design thickness with 4-in. surfacing would be adequate, with ample margin of safety, but that the 18-in. structure thickness with 2-in. surfacing would be inadequate. The test sections with paved shoulders and the relative behavior of the inner and outer wheel paths indicated that pavements with paved shoulders may be adequate if the overall structure thickness is 4 in. less than those without paved shoulders.

Directing personnel

Fred Burggraf is director of the Highway Research Board with headquarters in Washington, D. C. The project engineer in direct charge was W. N. Carey, Jr., of the Highway Research Board who also served as secretary of the WASHO Advisory Committee. Research engineers on the project were A. C. Benkelman and William M. Aldous. The operations engineer was Theodore Dec.

The Executive Committee of the WASHO Advisory Committee included E. V. Miller of Idaho, chairman, W. A. Bugge of Washington, Mark U. Watrous of Colorado, and W. C. Williams of Oregon.

Personnel from the Highway Research Board including those who served in the field were in charge of analyzing test results and the preparation of the final report.

Reports are available

The report which contains all of the observations, findings, and conclusions is identified as Highway Research Board Special Report 22—the WASHO Test Road—Part II. Part I (Special Report 18) covered the design, construction, and testing procedures.

Part II of the report is available from the Highway Research Board, 2101 Constitution Ave., Washington 25, D. C. The price is \$2.25.

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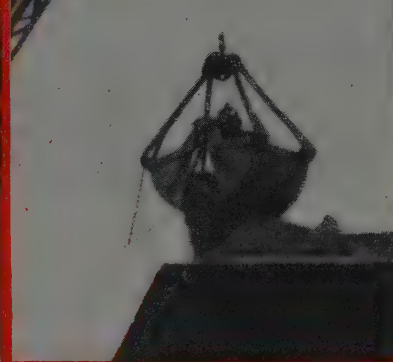
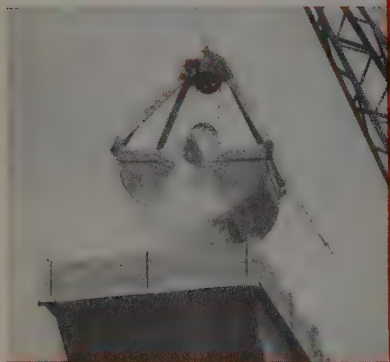
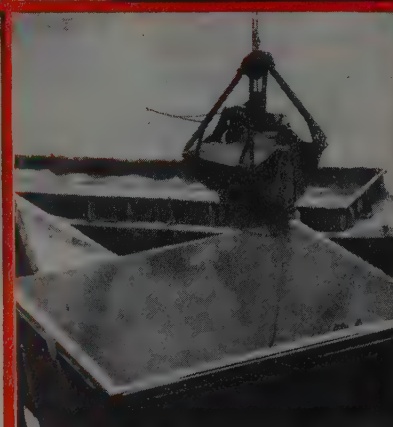


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The following two articles
are abstracts of talks given at
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—Editor

Modern Maintenance

By G. N. MILES

District Engineer
Colorado Highway Department

NEVER in the history of highway maintenance have we faced so great and diverse a demand for roadway maintenance of every kind—super-maintenance needed to match the pounding our highways are taking daily. With the full knowledge that this problem will grow progressively worse, highway administrators are making every effort to provide new super roads on which to carry this "national parade" of trucks and motorists. This is fine, and a long range program of adequate highway construction is an absolute necessity, but there is an interim period for every highway when there will be no construction going on—no construction in the immediate future—no construction for several years. Funds will not permit every mile of road to "jump into adequacy" at once, yet all these roads must furnish the basic service, now!

For years, people have been told that "we don't have sufficient funds to bring existing roads to the standards required by present day traffic." This, people understand pretty well—that there is not enough money to go "all the way," but they will never understand why adequate maintenance and modern expansion of existing facilities cannot be had while they wait for the mythical super-road.

Whether or not funds are available for major reconstruction, the service must be there when it is needed—now! Now is when John Q. Public needs to use the facility and he expects, and has every right to expect that while he awaits the long range highway development he will be given a reasonably good highway on which to travel and do business safely. This is his demand upon the many highway departments and it is one that we, as maintenance engineers, must answer with affirmative action—quickly, efficiently, and with a minimum interruption of roadway use.

Time was, when we could pretty readily "repair it—patch it up and make it do." Today we "repair it—patch it up—and it still won't do." We've got to improve it, and this is typical of so many maintenance operations. We must not only maintain the facility but must improve its functioning. For instance:

"There is that short section of old narrow concrete road between Pun-

See manufacturer's listing page 45, Yellow Section

in Center and Podunk. Traffic volumes have increased through there something fierce in the last two years. We don't know what is tying up reconstruction here but we understand it won't be settled for another year and we've just got to relieve that bottle-neck. We can do it—by adding a wide shoulder on either side and paving it. Cost? Not too bad, but the point is—it's an intolerable situation and we can't get away with it any longer." That is a good example of the problems of today's maintenance.

Contract Maintenance

By IRA B. MILLER

Operations Engineer
New Mexico Highway Department

BECAUSE it was such an essential element of the war effort, the construction industry came through the war relatively unscathed; its equipment had been kept up and improved, and it emerged with a hard core of skilled workers. As a result, our highway department decided to call on the contractors at the close of the war for help as an emergency affair, a temporary business to be abandoned as soon as this violent postwar up-surge of traffic should abate. The grim fact of the matter was that the volume of traffic did not abate; it increased; not in leaps and bounds as in the period immediately after V-J Day, but steadily. As a result the department threw the text-book definition of maintenance out of the window; our highways "in their original condition" were in the last stages of dissolution.

There seems to have existed a tacit assumption on the part of the Department personnel that the work performed on contract maintenance would be both more expensive and of inferior quality. There is no solid basis for this opinion, other than the experiment being a radical departure from precedent.

It appears that everyone concerned, contractors and department, was surprised when the contract jobs turned out as good as or better than the Department's own, and not out of line for costs either.

Such was the inauspicious beginning of contract maintenance in New Mexico. Its success may be measured by its increasing use until, in the period 1951-52, it accounted for 29% of our maintenance dollar. In that period, we spent \$4,416,350 for maintenance of which contract maintenance accounted for \$1,281,900. In the period 1952-53, our costs rose to \$5,530,100; out of this total, contract maintenance handled \$1,392,835, or 25%. In the 1953-54 period, the percentage done by contract dropped to 7.9% of a total maintenance expenditure of \$5,762,316. For the 1955-56 period, our estimated total maintenance costs are in round

figures, \$5,900,000; of this total it is likely that contractors will be called on to handle about \$780,000, a shade over 13%. This estimated percentage is not likely to decrease; extremely unfavorable weather would well increase it.

From our years of experience with the contracting of various types of maintenance, certain definite concepts have emerged.

(1) Use of contract maintenance permitted the Department to stabilize its labor force at a given size, permitting in effect the guaranteeing of an annual wage. The department could attract and hold competent personnel, and morale of our forces was at a constant high level.

(2) Contract maintenance permit-

ted a decrease in the capital outlay for equipment. This decrease in capital outlay was brought about both by a decrease in the amount of equipment needed, as well as by a more rapid depreciation of this smaller amount of equipment through greater use.

(3) Use of contract maintenance to some extent decreased unit prices for both contract construction and maintenance, inasmuch as contractors were able to operate more efficiently with the increased work load.

(4) Lastly, the procedure familiarized field engineering construction forces with maintenance problems, and pointed out to them construction practices which resulted in increased maintenance costs.

Short-cuts for increasing—

Engineering efficiency for new program levels

By A. C. CLARK, Deputy Commissioner

Engineering Division, U.S. Bureau of Public Roads

The material which follows is an abstract of a paper delivered by Mr. Clark at the AASHO conference on December 7.—Editor.

IT IS OBVIOUS that not all of the increase in engineering requirements is likely to be met merely by hiring more engineers, engineering aids, and other supporting personnel, so new processes and technological advances are being evaluated that may be helpful in increasing productivity in engineering operations to meet authorized construction schedules. The streamlining of existing procedures, extension of the use of photogrammetry, and more intensive application of electronics in the planning, design, construction, and operation of highways are most promising means of increasing productivity.

As an example, extensive progress has already been made in the adaptation of electronics to highway maintenance and operating functions. The use of two-way radio in the management of mechanized maintenance by over 200 highway departments has emancipated engineers from desk routine and decreased the number of central office engineers needed for field liaison work. The engineer at all times has complete control of activities under his jurisdiction and the whole organization has become a co-ordinated flexible team rather than relatively independent groups of men and equipment.

Electronics has moved in on highway construction. It is being used

to increase the productivity of the resident construction engineer. With the installation of two-way radio on the site and in the resident engineer's car, he can assume responsibility for two, three, or even more projects in an area. His engineering potential is thus more fully utilized. Furthermore, the productive capacity of one or two resident engineers is made available for other work.

Radio is also used to control the flow of materials between the central mixing plant and the pavement construction site. In another operation, electronic controls and punched cards are used to set the mix of concrete to specific proportions and to discharge it into waiting trucks for delivery.

Electronics is also used in truck weighing. The equipment consists of floating surface slabs whose movement is recorded on an oscilloscope and revolving drum. Not only is the weight of trucks obtained without the necessity of diverting them to a conventional scale but also the weight and speed of traffic can be obtained for use by traffic and design engineers.

Signs which can be remotely controlled by radio are now being tested. Motorists can be warned of a variety of hazards that might lie ahead simply by pressing a few buttons on the control panel at headquarters which light up or expose the desired message along the highway.

Electro-mechanical axle counters and tabulating equipment are used to keep accurate records of the number of vehicles using toll roads daily as well as recording the proper revenue associated with this traffic.

The city of Chicago is working on an electronic device which through a central dispatcher will remotely change the traffic light program at specific intersections as traffic loads change. Experiments are being carried on with warning signals on curves and other dangerous highway sections. The warning signs are actuated to flash a warning signal by traffic moving at excessive speeds. Also of interest is the electrical resistivity method used in a number of states for locating subsurface sand and gravel.

The recently completed Highway Research Board survey of time-saving methods in highway engineering relating to location, and road and bridge design discloses increments of progress toward modernizing highway engineering practices. It also discloses that there is no concerted effort on a broad enough scale for a full "package" modernization of highway engineering practices.

Aerial photography

Aerial photography is securing the greatest recognition from the states. Forty-six states have indicated that they are using aerial photography in varying degrees. The principal use has been in highway location for which it is reported that the wider coverage and more complete detail provided by aerial photography makes possible better engineering analysis. Other time-saving uses of aerial photography reported include the determination of access data for limited access facilities, retracing section and property lines, locating possible deposits of aggregates, procuring bridge site data and developing display data for use at public hearings.

In plan preparation, savings have been realized in some states by the modification of the content and format of construction plans to eliminate repetition and unnecessary data, by the wider use of standards sheets for drainage structures, by the substitution of typing for lettering and by the use of photographic processes to make cloth reproductions. Of outstanding interest in the field of earthwork computations is the Contour Grading Plan under development in California and the mechanized procedure developed in Oregon.

Standard bridge design

In bridge design the adoption of standard plans and the development of tabular data and charts to replace or reduce computations have been the principal time-saving methods. Design data for which such methods have been developed and applied include influence lines for continuous spans, tabular data for deck slabs, arch and rigid frame analysis, pile footings, and diaphragms, shear connectors, circular columns, rivet

groups, and curves for wind force components.

This nationwide inventory of time-saving methods by informing each state of what the other 47 states are doing should have a healthy effect of consolidating improvements in highway engineering practices in all 48 states and encouraging still further development.

More time-savers to come

As extensive as this improvement may be, it appears to be only a fraction of what it can be with the adoption of new electronic devices including high-speed digital computers. Many hours of engineers' and supporting personnel's time are now used in manual processes in engineering operations. The use of electronic computers offers the possibility not only of decreasing the time and cost of computation but also of effecting substantial reductions in the cost of capital improvements. Time saved by these modern devices together with the advantages inherent in them will permit broader and more complete investigation leading to more economical location and design and more rapid advancement to the construction stage.

The Bureau of Public Roads has assigned engineers to study the application of high-speed electronic computers to highway engineering operations and to consult with industries as to the use that has been and can be made of these machines. Extensive conferences have been held with manufacturers of electronic computers and the following is a very brief summary of some of the more important problems in which the use of high-speed electronic computers can increase appreciably the productivity of engineers and supporting personnel.

Problems for computers

1. Traffic and Planning
 - (a) Determining future traffic patterns, given the relative growth of the various areas in a community.
 - (b) Determining the location of new bridges and roads on the basis of origin and destination studies.
 - (c) Determining future traffic loads of proposed facilities on the basis of time diversion curves, for design and revenue purposes.
 - (d) Determining whether to improve existing facilities or to locate and construct new facilities considering safety, benefits to road users, land service benefits, and cost.

While data processing devices and computing machines have been used for many years in connection with these problems, the newly developed high-speed electronic computers offer impressive time-saving advantages.

2. Sufficiency Ratings of Roads
 - Determining the adjusted or weighted sufficiency rating of a road,

knowing basic sufficiency rating, the traffic for the road, and the average traffic for all roads in the State.

3. Signs and Signals

(a) Correlating accident rates with the types of signs and signals for certain critical road areas, with a view to improving the safety conditions of the road by optimum timing of signals and location of signs and signals.

(b) Minimizing traffic delays by optimum timing of signals and location of signs and signals based on speed and delay studies.

4. Drainage

Determining the flow of water from a given area, taking into account runoff characteristics and the intensity of rainfall.

5. Bridge Design

Calculating stresses, particularly for indeterminate structures.

6. Highway Location and Design

- Computing earthwork quantities in determining the most economical location and design.

7. Final Estimates

Computing pay quantities, particularly earthwork.

8. Route and Cadastral Surveys

(a) Converting latitudes and longitudes of P. I.'s or corners to the State System of Plane Coordinates and conversely.

(b) Computing error of closure and balancing the traverse.

Earthmoving electronics

Highway needs studies disclose that \$30,000,000,000 of the \$101,000,000,000 highway needs found to exist over a 10-yr. period will be for the purpose of earthmoving. The initial effort of the Bureau of Public Roads' engineers, therefore, relates to the combined use of photogrammetry and high-speed electronic digital computers in location, design and construction work involving the economics of earth movement.

Within this area numerous operations and combinations of operations are being studied and observed. Electronic computers are already being used in California to eliminate the time-consuming manual computations necessary to close a traverse. The use of high-speed electronic computers for earthwork computation in determining the relative merits of alternate line locations is being investigated. The speed with which quantities can be developed in this way will permit more exhaustive studies in establishing the most economic alignment and grade. Bureau of Public Roads' engineers have developed formulas for earthwork computation by electronic computers, which have been submitted to the various electronic computer manufacturers. At least two companies have programmed these computations on their machines and a third is working on the problem.

It is estimated that where the conventional method of plotting field

otes, checking, inking, templating, planimetry and computing volumes requires from 90 to 100 man-hours per mile at a cost of about \$200 or personal services, the electronic computer method would require only about 3 man-hours per mile at a cost of about \$20 for personal services plus rental of equipment.

Eliminate cross sections

Another method of earthwork computation is being studied which would eliminate field cross sectioning entirely. It is the "horizontal slice" or "contour grading" method in which the closed figures formed by the original and final contours at each contour elevation are planimeted and the volume computed by summing the products of the average areas and the contour interval. The possibility of mechanizing this computation by using an "electric eye" or an electronic curve-following device connected with a digital computer to integrate the areas is being explored with the Bureau of Standards Computation Laboratory. The computer would also average areas and compute volumes all in a continuous operation. The use of electronic curve-following and area integrating devices in industry is also being explored. Under this method the preparation of cross-section sheets as well as the field cross sectioning can be eliminated. Slope stakes would be set from off-sets called from the topographic map.

Because of the many variations of possible time-saving methods that exist, the Bureau of Public Roads has prepared an outline available on request including the various alternate methods for field testing purposes. It covers the following six operational stages:

- I Reconnaissance of area
- II Reconnaissance of alternate routes
- III Preliminary survey
- IV Determination of final line and computation of preliminary earthwork quantities
- V Location survey (staking final line ready for construction)
- VI Computation of "tentative pay earthwork quantities"

It is planned with this outline to establish test sections on forest roads in two of our Western divisions.

The outline for the proposed test sections can serve as a comparative check list against the operations as now performed. Should any state desire to develop similar test sections on its own initiative, the Engineering Division of the Bureau would be glad to furnish whatever information it has assembled and developed on the subject. By pooling and exchanging experience obtained in such tests, the development of new time-saving engineering methods can be accelerated for the benefit of the entire profession.



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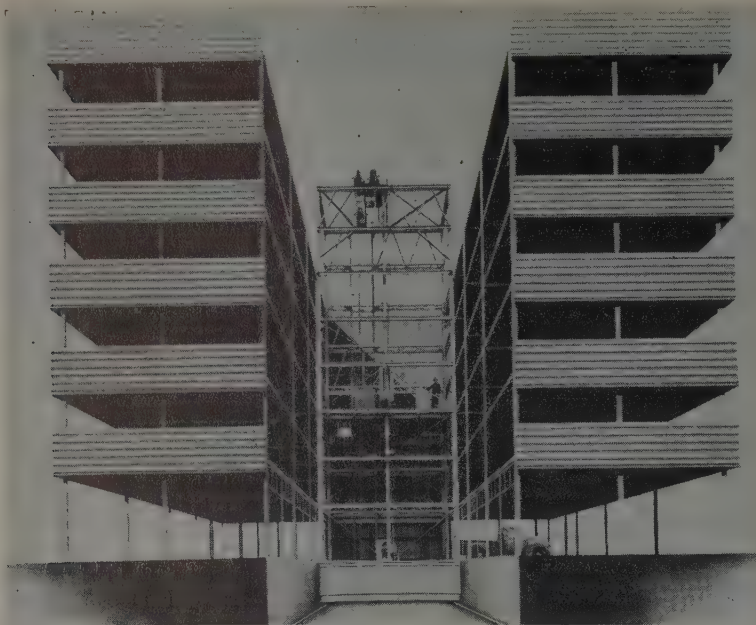
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See manufacturer's listing page 45, Yellow Section



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Descriptive brochure

A brochure is available explaining the principal operating parts of an installation and how it works. It gives comparative facts and figures for all types of parking. Interested persons may have one or more copies by writing or wiring File-A-Way Parking Corp., P. O. Box 3616, Portland 8, Oregon.

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1956 HANDBOOK

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MANUFACTURERS' SECTION

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660 Market Street, San Francisco

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Equitable Building, Portland

THE AMERICAN COLEMAN CO.
301 South Nevada Street
Littleton, Colorado

PRODUCTS: Pneumatic Tired Bulldozers; Front Drive Axles;
Power Take-Offs; Prime Movers; All-Wheel Drive Trucks.

DISTRIBUTORS

California	Berkeley	Work, Holst & Body Corp.
	Los Angeles	American Equipment & Body Co.
Colorado	Littleton	American Coleman Co.

Montana	Billings	Truck Equipment Co.
	Great Falls	HCL Equipment Corp.
	Helena	" "
New Mexico	Albuquerque	Beck Motor Co.
Oregon	Portland	Winter Weiss Co.
Utah	Salt Lake City	Rudy Yost Truck Equipment
		The Lang Co.

AMERICAN HOIST & DERRICK CO.
63 South Robert Street
St. Paul 1, Minnesota

PRODUCTS: Derricks; Hoists; Blocks and Sheaves; Crosby Clips; Portable Material Elevators; Carpullers; Crawler and Rubber Mounted Cranes; Shovels; Backhoes and Draglines.

DISTRICT MANAGERS

California Long Beach	6138 E.Tanglewood	H.L.Lindberg
Washington Mercer Island	9029 E.Shorewood	R.H.Lampman

DISTRIBUTORS

Arizona	Phoenix	Neil B. McGinnis Co.
California	Los Angeles	Cook Bros. Construction Machinery Co.
	Oakland	" " " " "

Colorado	Denver	Constructors Equipment Co., Inc.
Idaho	Boise	The Sawtooth Co.
Montana	Billings	Hall-Perry Machinery Co.
	Butte	" " " "

Great Falls	"	"	"	"
Missoula	"	"	"	"
New Mexico Albuquerque	Contractors Equipment & Supply Co.			

Oregon	Portland	Andrews & Andrews Equipment
Utah	Salt Lake City	The Lang Co.
Washington	Seattle	Andrews Machinery of Washington, Inc.

AMERICAN LOGGING TOOL CORP.
4203 Union Blvd.
St. Louis 15, Missouri

PRODUCTS: Logging Tools Including Peavies, Cant Hooks, Pike Poles, Tongs, Grapples, Load Binders.

FACTORY BRANCHES

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

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	1741 W.Slauson	W.C.Muth
Oregon	Eugene	3217 Whitten Dr.	W.J.Schluchter
	Portland	2939 N.Willamette	Frank F.Welzel
Utah	Springville	433 S.Third East	John K.Hardy
Washington	Seattle	Smith Tower	L.D.Eneboe

AMERICAN TRACTOR CORP.
Churubusco
Indiana

PRODUCTS: Crawler Tractors and Earth-Moving Equipment.

DISTRIBUTORS

California	Berkeley	West Coast Engine & Equipment Co.
	Los Angeles	Electric Tool & Supply Co.
Colorado	Denver	King & East Machinery Co.
Oregon	Portland	Viking Equipment Co.
Utah	Salt Lake City	Western Machinery Co.
Washington	Seattle	Viking Equipment Co.

WESTERN CONSTRUCTION is first choice of equipment manufacturers — first choice is built into WC!

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

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AMERICAN TRACTOR EQUIPMENT CORP.

9131 San Leandro Blvd.
Oakland 3, California

PRODUCTS: Outside Mounted and Inside Mounted Dozers; Road-builders (Angle Blade); Hydraulic Scrapers; Front End Loaders; Tractor Mounted Rock Ripper.

DISTRIBUTORS

See your local Crawler Tractor Distributor.

ANTHONY CO.

Streator
Illinois

PRODUCTS: Haulists; Dump Trailers; Dump Bodies; Lift Gates (for motor trucks).

DISTRIBUTORS

Arizona	Phoenix	Auto Safety House
California	Los Angeles	Lambert Co., Ltd.
California	Oakland	C & C Trailer & Body Co.
Colorado	Denver	Winter-Weiss Co.
Montana	Billings	Eaton Metal Products Co.
	Great Falls	" "
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; Pile Shells and Caissons; Steel Pipe Piles; Water Control Gates; Flume; Steel Tunnel Liner Plate; Steel Sheet Piling; Snow Fence; Corrugated Metal Bridge Plank.

WESTERN SALES ORGANIZATION

Arizona	Tempe	C.J. Sturm	State Sales Mgr.
California	Berkeley	M.H. Bailey	District Sales Mgr.
	Los Angeles	J.B. Evans	District Sales Mgr.
Colorado	Denver	Roy Grant	Division 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	D.J. Stoker	Division Sales Mgr.
	Salem	George Schwarz	State Sales Mgr.
Utah	Salt Lake City	F.R. Randle	Sales Mgr., Utah-Ida.
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; Aero-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. Senderson
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	Beacon Equipment Co.
Utah	Salt Lake City	The Long Co.
Washington	Seattle	Pratto Sales Co.
	Spokane	Salisbury Service Station Equipment 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	McCarthy-Sherman Distributing Co.
Idaho	(Portland)	Mitchell, Lewis & Staver
Montana	Billings	Wyoming Tractor & Equipment Co.
Nevada	(Los Angeles)	H.C. Shaw Co.
New Mexico	(Denver)	McCarthy-Sherman Distributing Co.
Oregon	Portland	Mitchell, Lewis & Staver
Utah	Salt Lake City	Intermountain Ford Tractor Sales Co.
Washington	(Portland)	Mitchell, Lewis & Staver
Wyoming	(Denver)	McCarthy-Sherman Distributing Co.
	(Billings)	Wyoming Tractor & Equipment Co.

ARROW TOOLS, INC.

1900 South 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	American Pneumatic Tool Co.
	"	Air Power Tools, Inc.
	Oakland	Paul Berkeley Equipment & Supply Co.
Colorado	Denver	Gunderson & Taylor Machinery Co.
Wyoming	Casper	Wyoming Automotive Co.

ASPHALT EQUIPMENT CO., INC.

3929 Buell Drive, P.O. Box 2498
Fort Wayne 6, Indiana

PRODUCTS: McConaughay Bituminous Mixers.

SALES REPRESENTATIVE

California	Mill Valley	197 Miller Ave.	Wm. J. McDonell
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DISTRIBUTORS

Alaska	(Seattle)	Caldwell Machinery Co.
California	Los Angeles	Bevis Machinery Co.
	Oakland	C.H. Grant Co.
Colorado	Denver	Accessory Supply Co.
Idaho	Boise	Curt Burt Equipment Co.
Nevada	Elko	A & D Machinery Co.
New Mexico	Las Cruces	Oliver Equipment Co.
Oregon	North Bend	Asphalt Equipment Co.
Utah	Salt Lake City	Equipment Supply Co.
Washington	Seattle	Caldwell Machinery Co.
Wyoming	(Denver)	Accessory Supply Co.

ATHEY PRODUCTS CORP.

5631 West 65th Street
Chicago 38, Illinois

PRODUCTS: Rubber-Tired Dump Trailers; Force-Feed Loaders; Dump and Hauling Trailer Wagons; Portable Breaker Units; Forged-Trak Wheels; Universal Trailers.

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	Hallon 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.
	Visalia	Treanor Equipment Co.
Colorado	Denver	McCoy Company
Idaho	Boise	Bunting Tractor Co., Inc.
	Idaho Falls	Parkinson Tractor Co.
	Lewiston	Nez Perce Tractor & Equipment Co.

Continued on next page

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

ATHEY PRODUCTS CORP. (Continued)

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.
	La Grande	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	Chevyenne	Worham Machinery Co.

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

PRODUCTS: Explosives; Blasting Supplies.

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 & Chapell
	Yukon	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. Holveck
	Vista	Mason Metal & Supply Co.
	Whittier	The Ford Alexander Corp.
	Woodlake	Woodlake Hardware & Furniture Co.
	Yreka	Cooley & Pollard Hardware
Colorado	Cripple Creek	The Stanker Supply Co.
Idaho	Boise	The Sawtooth Co.
	Halley	Francis Jones, Inc.
Montana	Butte	W.P. Lavelle
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	Fleegal Supply Co.
Utah	Moab	Bud Walter, Inc.
	Salt Lake City	Western Powder Co.
Washington	Marshall	Orrard Powder Co.
	Raymond	Dennis Company
	Sedro Valley	Mt. Baker Hardware
	Shelton	Lumbermen'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; Graders; Scrapers; Rippers; Dozers and Levelers for small Tractors.

SEE YOUR LOCAL TRACTOR DEALER

AUSTIN DIVISION
Hercules Galion Products, Inc.
2 Santa Fe Drive
Denver 23, Colorado

PRODUCTS: Austin Overshot Loaders.

WESTERN DIVISION SALES MANAGER...F.A. Baker

DISTRIBUTORS

All Caterpillar Tractor Distributors

AUSTIN-WESTERN CO.
601 No. Farnsworth Avenue
Aurora, Illinois

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

DISTRICT MANAGERS

California	San Francisco	149 S. Linden Ave.	J.E. Huber
	"	"	Fred Bourquin, Asst.
Colorado	Denver	6815 W. 14th Ave.	W.E. Chapman
Montana	Billings	6 Valley Drive	E.L. Kleckner

DISTRIBUTORS

Arizona	Phoenix	Shriver Machinery Co.
California	Los Angeles	Smith Booth Usher Co.
	San Francisco	Edward R. Bacon Co.
Colorado	Denver	Liberty Trucks & Parts Co.
Idaho	Boise	Engineering Sales Service, Inc.
Montana	Butte	Hall-Perry Machinery Co.
	"	"
	Great Falls	"
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	Cheyenne	Kerem Tractor & Equipment Co.
	Casper	"

BADGER MACHINE CO.
1124 West Fifth Street
Winona, Minnesota

PRODUCTS: HOPTO Diggers; Badger Trenchers.

SALES REPRESENTATIVES

California	Carmichael	4817 Melvin Drive	Joseph Tandeski
Colorado	Lakewood	1460 Reed	Sheridan Wolfe

DISTRIBUTORS

California	Los Angeles	Calveld, Inc.
	Sacramento	Island Equipment Co.
Colorado	Denver	King & East Machinery Co.
Montana	Billings	Calrd Engineering Works
	Helena	Calrd Engineering Works
	Kalispell	Mountain Tractor Co.
	Missoula	"
Oregon	Portland	Nelson Equipment Co.
Utah	Salt Lake City	Arnold Machinery Co.
Washington	Seattle	Air-Mac, Inc.
	Spokane	Andrews Equipment Service of Wash., 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	La Mirada	14100 E. Rosecrans	T.A. Griffin, Dist. Mgr.
	San Francisco	2929 19th St.	Ralph Rogers, Asst. DM

DISTRIBUTORS

Arizona	Phoenix	Shriver Machinery Co.
California	Eureka	McGarahan Supply Co.
	Los Angeles	Smith-Booth-Usher Co.
	Oakland	Bay Cities Equipment, Inc.
Colorado	Denver	Farris-Moritz Equipment, Inc.
Idaho	Boise	Feenaughly Machinery Co.
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Oregon	Klamath Falls	Cascade Industrial Supply, Inc.
	Portland	Feenaughly Machinery Co.
Utah	Salt Lake City	Feiner Equipment & Supply Co.
Washington	Seattle	Modern Machinery Co.
	"	Western Tractor & Equipment Co.
	Spokane	Modern Machinery Co.

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

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

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

FACTORY REPRESENTATIVES

California	San Francisco	149 S. Linden Ave.	J. E. Huber
Colorado	Denver	6387 W. Ohio St.	Paul Hawk-Inberry

DISTRIBUTORS

Arizona	Phoenix	Shriver Machinery Co.
California	Los Angeles	Smith-Booth-Usher Co.
	San Francisco	Edward R. Bacon Co.
Colorado	Denver	Liberty Trucks & Parts Co.
New Mexico	Albuquerque	N. C. Ribble Co.
Oregon	Portland	Columbia Equipment Co.
Washington	Seattle	"
	Spokane	"

BARNER-GREENE CO.
400 North Highland Avenue
Aurora, Illinois

PRODUCTS: Asphalt Plants; Belt Conveyors; Ditchers; Bituminous Mixers; Finishers; Bucket Loaders; Coal Handling Equipment.

WESTERN FACTORY OFFICE

California	San Mateo	Area Sales Mgr.	E. L. Benson
	"	Area Serv. Mgr.	Harry Jackson

DISTRIBUTORS

Arizona	Phoenix	Road Machinery Co.
California	Los Angeles	Santa Fe Equipment Co.
	San Francisco	Coast Equipment Co.
	"	Mines Engr. & Equip. Co. (Conveyors)
Colorado	Denver	Ray Corson Machinery Co.
Idaho	Boise	Engineering Sales Service, Inc.
Montana	Billings	Western Construction Equipment Co.
	Missoula	"
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Oregon	Portland	Columbia Equipment Co.
Utah	Salt Lake City	Kimball Equipment Co.
	"	Mine & Smelter Supply Co. (Mines)
Washington	Seattle	Columbia Equipment Co.
	Spokane	"
Wyoming	Casper	Kerem Tractor & Equipment Co.
	Cheyenne	"

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

PRODUCTS: Rammers for earth compaction; Portable Gasoline Hammers; Portable Gasoline Rock Drills; Portable Gasoline Tamping.

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 Corp.
Utah	Salt Lake City	Arnold Machinery Co.
Washington	Seattle	Jack Sahlberg Equipment Co.

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

PRODUCTS: B & L Elevating Grader Attachment for Galion Graders.

Distributed through GALION Distributors.

Pre-selling of equipment buyers and users is the key to getting good distributors—Good distributors want popular lines, help them want your line!

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 Term. Sales Bldg.	Wm. A. Matzke, Jr.

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	Hillico Industrial Supply
	Redding	Lowry Equipment Co.
	Sacramento	Central Equipment Co.
	San Francisco	The Rix Co., Inc.
Idaho	Boise	Western Equipment Co.
Oregon	Klamath Falls	Mohy & 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.

ARTHUR C. BAUMANN
7011 Grays Avenue
Philadelphia 42, Pennsylvania

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

BAUGHMAN MANUFACTURING CO., INC.
Shipman Road
Jerseyville, Illinois

PRODUCTS: Conveyors; Elevators; Lime and Fertilizer Spreader Bodies; Ice Control Equipment; Bulk Material Bodies, Truck or Trailer Mounted; Bulk Cement Bodies, Truck or Trailer Mounted; Transport Bodies.

DISTRIBUTORS

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

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

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

JAY CITY SHOVELS, INC.
Jay City
Michigan

PRODUCTS: Power Shovels and Cranes, Crawler and Pneumatic Tire Mounted.

DISTRIBUTORS

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

BEEBE KNOX
1724 Sixth Ave. So.
Seattle 4, Washington

PRODUCTS: Hand Hoists and Winches.

BEUGE MANUFACTURING CO.
P.O. Box B-1
Gilroy, California

PRODUCTS: Hydraulic Scrapers; Drag Scrapers; Trenchers; Log Turners; Power Control Units.

SALES REPRESENTATIVE

Arizona	Phoenix	P.O.Box 2414	Richard Pasman
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DISTRIBUTORS

Arizona	Phoenix	Arizona Machinery Co.
	"	The O.S.Stapley Co.
California	Yuma	Braden Tractor Co.
	Bakersfield	Cousins Tractor Co.
	"	San Joaquin Tractor Co.
	El Centro	Faure Tractor & Equipment Co.
	"	Purdy Holmquist Co.
	Fresno	Allied Equipment Co.
	Hanford	Cousins Tractor Co.
	"	J.H.Deenan, Inc.
	"	Jim Inale Co.
	Lancaster	Shepherd Tractor & Equipment Co.
	Merced	Hilton Tractor Co.
	Modesto	Valley Tractor & Equipment Co.
	"	Stanislaus Implement & Hardware
	Orland	L.G.Maulhardt Equipment Co.
	Sacramento	Weaver Tractor Co.
	Salinas	Pringle Tractor Co.
	San Diego	San Diego Tractor & Equipment Co.
	"	Southern Equipment & Supply Co.
	San Jose	Valley Equipment Co.
	Santa Maria	Joseph G.Moore Co.
	Stockton	Holt Brothers
	"	Moore Equipment Co.
	Tulare	Jim Inale Co.
	Visalia	Treanor Equipment Co.
Colorado	Denver	McCoy Company
Montana	Billings	Wortham Machinery Co.
	"	Seltz Machinery Co.
	Butte	Central Machinery Co.
	Sidney	Tractor & Equipment Co.
	"	Norland Machinery Co.
Nevada	Reno	Sanford Tractor & Equipment Co.
	Las Vegas	James Cashman
	"	Hilton's, Inc.
New Mexico	Albuquerque	J.D.Cogans & Co.
Oregon	Portland	R.L.Harrison Co.
	"	Russ Chamberlin Co.
Utah	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; Bolts and Nuts; Fabricated Structural Steel; Sheet Piling; Wire Rope.

WESTERN SALES OFFICES

Los Angeles	6000 S.Boyle Ave.	L.J.Soracco	Mgr. of Sales
San Francisco	20th & Illinois	C.D.Hove	" "
Portland	508 Pacific Bldg.	L.S.Kuhn	" "
Seattle	3631 E.Marginal Way	H.E.Grey	" "

SALES REPRESENTATIVES

Spokane	West 725 Sprague St.	C.T.Foxworth
Phoenix	213 North First Ave.	T.E.Neff
Honolulu	State Savings & Loan Bldg.	J.F.Moody

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; Industrial Vacuum Cleaners; Valve Refacers; Valve Seat Grinders; Wire Wheel Brushes; attachments and supplies.

REGIONAL SALES MANAGER

California	Richmond	1732 Wright Ave.	J.P.Spain
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FACTORY BRANCHES

California	Los Angeles	2432 S.Broadway	L.C.Kaefer, Mgr.
	San Francisco	4343 3rd St.	Paul Pounds, Mgr.
Colorado	Denver	1010 Bannock St.	A.R.Cooper, Mgr.
Oregon	Portland	1640 NW Johnson	Joe L.Cehrning, Mgr.
Washington	Seattle	434 9th Ave. N.	P.W.Lund, Mgr.
	Spokane	N.2706 Hemlock	Gus Nelson, Mgr.

BLACKHAWK MANUFACTURING CO.
5325 West Rogers Street
Milwaukee 46, Wisconsin

PRODUCTS: High-Lift Jacks, 20 to 100-Ton, Porto-Power.

DISTRICT MANAGER

California	Orinda	34 Van Tassel Lane	Arthur J.Comerford
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BLAW-KNOX CO., CONSTRUCTION EQUIPMENT DIV.
Blawnox, Pennsylvania
Mattoon, Illinois

EQUIPMENT MANUFACTURED AT MATTOON

Subaraders; 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.

WESTERN SALES OFFICE

California	San Francisco	681 Market St.	J.P.Cullen West Coast Manager
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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	Colorado Builders Supply Co.
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	Star Machinery Co.
	"	Washington Machinery Co.
	Spokane	Star Machinery 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.

Selling the West is an eleven-state job...
WESTERN CONSTRUCTION covers it all!

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

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.	James H. Steffensen
Utah	Salt Lake City	1016 Military Dr.	Gall 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; Curbing Rims; Tire Rack Brackets; Three-Way Valves; Air Operated Earth Mover and Truck Jacks.

DISTRIBUTORS

Arizona	Phoenix	Phoenix Auto Supply Co.
	Tucson	Motor Supply Co.
California	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.
Montana	Helena	Valley Motor Supply Co.
Nevada	Reno	Nevada Auto Supply
New Mexico	Las Cruces	Cruces Motor Parts
Oregon	Portland	Russ Chamberlin Co.
Utah	Salt Lake City	Tire Shop Supply Co.
Washington	Seattle	Automotive Parts & Equipment Co.
	"	Ballou & Wright

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	San Francisco	5442 Allott Ave.	W. J. Markley
Washington	Bellevue	10255 N.E. 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.

BRODERICK & BASCOM ROPE CO. 4203 Union Boulevard St. Louis 15, Missouri

PRODUCTS: Wire Rope and Slings.

FACTORY BRANCHES

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

DISTRIBUTORS

Arizona	Phoenix	Arizona Machinery Co.
California	Colusa	I. G. Zumwalt Co.
	Fresno	Contractors Equipment & Supply Co.
	Sacramento	Weaver Tractor Co.
	San Diego	Winn Supply Co.
	San Francisco	Calif. Industrial Supply Co.
	Stockton	Holt Bros.
Colorado	Denver	Sine & Smelter Supply Co.
Idaho	Boise	Sherline Equipment Co.
	Idaho Falls	Perkinson Tractor Co.
	Lewiston	Nex Perce Tractor & Equipment Co.
Montana	Billings	Seltz Machinery Co.
	Helena	Calrod Engineering Works
	Miles City	Tractor & Equipment Co.
	Missoula	Westmont Tractor & Equipment Co.
	Sidney	Richland Machinery Co.

Continued in next column

BRODERICK & BASCOM ROPE CO. (Continued)

Oregon	Baker	Basche-Sage Hardware Co.
	Bend	Moly & Van Dyke, Inc.
	Coquille	Enlund Equipment Co.
	The Dalles	Dielschneider Equipment Co.
	Eugene	Eugene Equipment Co.
	John Day	Moly & Van Dyke, Inc.
	Lebanon	"
	Medford	Hubbard Bros., Inc.
	Pendleton	Empire Machinery Co.
	Portland	Wood Tractor Co.
	Roseburg	Industrial Supply Co.
Utah	Salt Lake City	Wheeler-Kershaw Co.
Washington	Aberdeen	J. G. Isaacson Co.
	Bellingham	Industrial Supply Co.
	Everett	Greenhills Industrial Supply Co.
	Spokane	Byrne-Ferris Machinery Co.
	Tacoma	Murphy-Campbell Co.
	Walla Walla	Braden Tractor & Equipment Co.
	Yakima	Webb Tractor & Equipment Co.

WM. BROS BOILER & MANUFACTURING CO. 1057 - Tenth Avenue S.E. Minneapolis 14, Minnesota

PRODUCTS: Medium Tamper and Giant Tamper; 7, 10, 35, 50 and 100 Ton Pneumatic Tired Rollers; Circulars; Distributors; Snow Plows; Spray Bars; Cement Block Loaders; All Steel Rollers; Sidewalk, Parking Lot, Highway, Airport and Railroad Rotary Snow Plows; Steam Generators.

SALES REPRESENTATIVE

Colorado	Denver	1410 Spruce St.	O. G. Hollimon
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DISTRIBUTORS

Arizona	Phoenix	Arizona Equipment Sales, Inc.
California	Los Angeles	Crook Company
	San Francisco	Coast Equipment Co.
Colorado	Denver	McGow Company
Idaho	Boise	Western Equipment Co.
Montana	Billings	Seltz Machinery Co.
	Great Falls	Central Machinery Co.
	Kellspell	Mountain Tractor Co.
	Sidney	Tractor & Equipment Co.
Nevada	Reno	Pioneer Equipment Co.
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	Nelson Equipment Co.
Utah	Salt Lake City	Wheeler-Kershaw
Washington	Seattle	Totem Equipment Co.

BROWNING MANUFACTURING CO. 111 Humble Avenue San Antonio 6, Texas

PRODUCTS: Pneumatic Tired Rollers; Self-Propelled Pneumatic Tired Rollers; Sheepfoot Rollers; Rock Crushers.

DISTRIBUTORS

Arizona	Phoenix	Road Machinery Co.
California	Bakersfield	San Joaquin Tractor Co.
	Los Angeles	LeRoy Rix Machinery Co.
	Oakland	Spears-Wells Machinery Co.
Colorado	Denver	Constructors Equipment Co.
Idaho	(Salt Lake)	Western Machinery Co.
Montana	Butte	Hall-Perry Machinery Co.
	Great Falls	" " " "
	Billings	" " " "
Nevada	(Salt Lake)	Western Machinery Co.
New Mexico	Albuquerque	N. C. Ribble Co.
	Roswell	Smith Machinery Co.
Oregon	Portland	Contractors Equipment Co.
Utah	Salt Lake City	Western Machinery Co.
Washington	(Portland)	Contractors Equipment Co.
	Seattle	Reliance Equipment & Supply
Wyoming	(Billings)	Hall-Perry Machinery Co.
	Casper	Moss Equipment Co.
	(Denver)	Constructors Equipment Co.
	(Salt Lake)	Western Machinery Co.

Save your HANDBOOK 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!

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. CORPORATION
660 Market Street, San Francisco
Equitable Building, Portland

416 West 8th Street, Los Angeles

BRUNNER & LAY OF PORTLAND, INC.60 N. Tillamook Street
Portland 12, OregonPRODUCTS: Carbide Rok Bits; Intra-Set Drill Steel; Drill Steel;
Molt Points; Clay Spades; Paving Breaker Tools; Clay
Digger and Chipping Hammer Tools.

DISTRIBUTORS

Canada	Calgary	Ferguson Alberta Supply
	Edmonton	Pardee Equipment Co.
	Vancouver	C & 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.
	"	Western Bearings Co.
Montana	Billings	Seltz Machinery Co.
	"	Western Construction & Equipment Co.
	Butte	Butte Machinery Co.
	"	Hall-Perry Machinery Co.
	Great Falls	"
	Helena	Calrd Engineering Works
	"	Montana Powder & Equipment
	Missoula	Miller Machinery Co.
Oregon	Coquille	Enlund Equipment Co.
	Coos Bay	Coos Bay Supply Co.
	Eugene	Howard-Cooper Corp.
	"	Loggers & Contractors Machinery 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.
	"	Kentel Equipment Co.
	"	Western Machinery Co.
	"	Modern Machinery Co.
Wyoming	Rock Springs	Wortham Machinery Co.

BRUNNER & LAY OF LOS ANGELES, INC.2425 East 37th Street
Los Angeles 58, CaliforniaPRODUCTS: Carbide Rok-Bits; Intra-Set Drill Steel; Drill Steel;
Molt Points; Clay Spades; Paving Breaker Tools; Clay
Digger and Chipping Hammer Tools.

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.
	"	Wernock Bancroft Equipment Co.

Continued in next column

BRUNNER & LAY (Continued)

	Redding	Paul Dfoscher Equipment Co.
	"	Lowry Equipment Co.
	Sacramento	Edward R. Bacon Co.
	"	George M. Philpott Co.
	"	Western Tractor Co.
	San Bernardino	W.K. Equipment Co.
	San Diego	Gould Hardware & Machinery Co.
	"	Hudson Equipment Co.
	"	Koreger Equipment Co.
	"	Standard Iron & Supply Co.
	San Francisco	Edward R. Bacon Co.
	"	Coast Equipment Co.
	"	George M. Philpott Co.
	"	Tinkler Equipment Co.
	"	Gunderson-Taylor Co.
Colorado	Denver	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.
	"	Sierra Machinery Co.
New Mexico	Albuquerque	Contractors Equipment Co.
	"	Harry Cornelius Co.
	"	R.L. Harrison
	"	Lively Equipment Co.
	"	N.C. Ribble Co.
Utah	Salt Lake City	Arnold Machinery Co.
	"	Boque Supply Co.
	"	Western Machinery Co.

BUCYRUS-ERIE CO.
South Milwaukee
Wisconsin

PRODUCTS: Shovels; Cranes; Draglines; Hydrocranes; Hydrohoes.

WESTERN BRANCH OFFICES

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

DISTRIBUTORS

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

BUDA DIVISION
Allis-Chalmers Manufacturing Co.
154th & Commercial Avenue
Harvey, Illinois

PRODUCTS: Earth Drills.

DISTRIBUTORS

California	Los Angeles	Fornaciari Company
	San Francisco	Coast Equipment Co.
Colorado	Denver	Ray Corson Machinery Co.
Idaho	Boise	The Sawtooth Co.
Montana	Billings	Western Construction Equipment Co.
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	Contractors Equipment & Supply Co.

PRODUCTS: Material Handling Equipment; Industrial Tractors;
Fork Lift Trucks; Burden Carrying Platform Trucks;
Lifting Jacks.

DISTRIBUTORS

Arizona	Phoenix	Arizona Equipment Sales, Inc.
California	Los Angeles	Pacific Lift Corporation
	Redwood City	Industrial Trucks
	Denver	B.K. Sweeney Co.
Colorado	Albuquerque	Industrial Supply Co.
New Mexico	Portland	Hamilton Engine Sales Co.
Oregon	Seattle	Materials Handling Equipment Co., Inc.
Washington	"	"

Continued on next page

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

BUDA DIVISION (Continued)

PRODUCTS: Diesel and Gasoline Engines and Power Units; Diesel and Gasoline Engine Generator Sets; Lifting Jacks;

FACTORY BRANCH MANAGER

California San Francisco 470 Bayshore C.H. Riding

DISTRIBUTORS

Arizona	Phoenix	Arizona Equipment Sales, Inc.
California	Bakersfield	Anderson-BeVier Co., Inc.
	Fresno	Utility Trailer Sales Co.
	Lono Beach	Anderson-BeVier Co., Inc.
	Los Angeles	"
	San Francisco	Buda Engine & Equipment Co., Inc.
Colorado	Denver	B.K. Sweeney Co.
	Grand Junction	"
New Mexico	Albuquerque	Industrial Supply Co.
Oregon	Portland	Hamilton Engine Sales, Inc.
	"	T.B. Cook Engine Co.
Utah	Salt Lake City	Motor Mercantile Co.
Washington	Seattle	Northwest Motor Parts & Mfg. Co.
Wyoming	Casper	Power Service Co.

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 St. Ben E. Linaufelter

DISTRIBUTORS

Arizona	Phoenix	Min-A-Con Equipment Co.
California	Los Angeles	Crook Co.
	Oakland	Spears-Willis 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	Wheeler-Kershaw Co.
Washington	Seattle	Clyde Equipment Co.
	Spokane	Intermountain Equipment Co.
Wyoming	Cheyenne	Worham Machinery Co.

THE BURCH CORPORATION

324 So. Thoman Street
Crestline, Ohio

PRODUCTS: Snow Plows; Road Building and Maintenance Equipment.

W. J. BURKE & CO.

2690 Harrison Street
San Francisco, California

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

FACTORY BRANCHES

California	Los Angeles	6235 E. Telegraph	John T. Atwater, Mgr.
	Sacramento	115 N St.	J.A. McLaughlin, Mgr.
New Mexico	Albuquerque	606 Louisiana Blvd.	Wm. High, Mgr.
Oregon	Portland	2344 21st Ave. NW	E.J. Cowling, Mgr.
Washington	Seattle	1101 Elliott Ave.	Verne Cooperider

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; Storage Bins; Electric Vibrators; Weighing Batchers; Cement Aerator; Bin Indicators; Portable Concrete Hoppers.

DISTRIBUTORS

Arizona	Flagstaff	State Tractor & Equipment Co.
	Phoenix	"
	(Los Angeles)	Brown-Beyls Industrial Equipment Co.
California	Los Angeles	"
	Milbrae	H.L. Davis
Colorado	Denver	Constructors Equipment Co., Inc.
Idaho	Idaho Falls	Arnold Machinery Co.
	(Spokane)	Construction Equipment Co.
Montana	Sidney	Tractor & Equipment Co.
Nevada	(Salt Lake)	Arnold Machinery Co.
	(Los Angeles)	Brown-Beyls Industrial Equipment Co.
New Mexico	Albuquerque	J.D. Connors Co.
	(El Paso)	Contractors Equipment & Supply Co.
Oregon	Portland	Clyde Equipment Co.
Utah	Salt Lake City	Arnold Machinery Co.
Washington	Seattle	A.H. Cox & Co.
	Tacoma	"
	Spokane	Construction Equipment Co.
	(Portland)	Clyde Equipment Co.
Wyoming	Cheyenne	Worham Machinery Co.
	(Salt Lake)	Arnold Machinery Co.

A. M. BYERS

Pittsburgh 22
Pennsylvania

PRODUCTS: Wrought Iron Pipe and Wrought Plate and Steel Products.

DIVISION MANAGER

California San Francisco 225 Bush St. A.D. Sheere

BYERS MANUFACTURING CO.

Sycamore and Spruce Sts.
Ravenna, Ohio

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

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.
Colorado	Denver	Johnson-Tudor Co.
Montana	Billings	Seltz Machinery Co., Inc.
New Mexico	Albuquerque	T-P Pump & Pipe Co.
	"	N.C. Ribble Co.
Oregon	Portland	Mi-Van Co.
Utah	Salt Lake City	H.H. Nielsen Co.

CARVER PUMP CO.

1056 Hershey Avenue
Muscatine, Iowa

PRODUCTS: Pumps: Self-Priming Centrifugal; Irrigation; Industrial, Diaphragm.

FACTORY BRANCH & WAREHOUSE

California San Francisco 1257 Folsom St.

WESTERN REGION SALES MANAGER

California San Francisco 1257 Folsom St. C.A. Rust

DISTRIBUTORS

Arizona	Phoenix	Salt River Pump & Supply Co.
	"	O.S. Stapley Co.
California	Bakersfield	San Joaquin Valley Tractor Co.
	Escondido	Mears Irrigation Co., Inc.
	Fresno	Pacific Mill & Mine Supply Co.
	Los Angeles	Frederick Pump & Engineering Co.
	"	Mine & Mill Machinery Co.
	San Francisco	Hubbard Machine & Equipment Co.
	"	Simonds Machinery Co.
	San Jose	Western Pump Co.
Colorado	Denver	I.G. Downs Co., Inc.
	Pueblo	Bernstein Brothers
Montana	Billings	Blacktop Construction Co.
	Helena	Steffeck Equipment Co.
	Missoula	Folsom Co., Inc.
	Roundup	Mussellshell Valley Equipment Co.
New Mexico	Albuquerque	T-P Pump & Pipe Co.
Oregon	Pendleton	Pendleton Grain Growers
	Portland	Andrews & Andrews Equipment Co.
Utah	Salt Lake City	Cline Equipment Co.
	"	Rasmussen Equipment & Supply Co.
	"	Utilities Engineers
Washington	Seattle	Andrews Machinery of Washington, Inc.
	Yakima	Crip King Co.
Wyoming	Casper	Casper Concrete Co.
	"	Gehring Equipment 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!

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

Good distributors—backed with advertising support in WC—are the key to successful selling in the West!

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

PRODUCTS: Gasoline and Diesel Wheel Tractors; Highway Movers;
Gasoline and Diesel Engines; Powerloaders.

FACTORY BRANCHES

California	Oakland	1933 Peralta St.	W.F. Carey
Oregon	Portland	3333 SE 30th Ave.	R.E. Arnold
		Apt. #52	

FACTORY REPRESENTATIVE

California	Sacramento	6063 34th Ave.	Jack De Benedetti
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DISTRIBUTORS

Arizona	Phoenix	Superior Equipment Co.
California	Anaheim	Orange County Tractor Co.
	Bishop	Orey's Sierra Machinery Shop
	Los Angeles	Electric Tool & Supply Co.
	Sacramento	Island Equipment Co.
	San Bernardino	Electric Tool & Supply Co.
	San Francisco	Contractors Machinery Co.
	San Luis Obispo	Farmer's Hardware & Equipment
	Santa Maria	Heinrich's Equipment
	Stockton	Equipment Sales & Service
	Denver	Liberty Truck & Parts Co.
Colorado	Bolse	Starline Equipment Co.
Idaho	Billings	Montana Powder & Equipment Co.
Montana	Helena	" " "
	Reno	Jenkins & Albright
Oregon	Portland	Columbia Equipment Co.
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Seattle	Columbia Equipment Co.
	Spokane	" " "
Wyoming	Casper	Worham Machinery Co.
	Cheyenne	" " "
	Rock Springs	" " "
	Sheridan	" " "

CATAPHOTE CORP. 2505 Albion Street P.O. Box 28, Station F Toledo 6, Ohio

PRODUCTS: Construction, Traffic and Street Signs; Reflective
Marking Paints for Traffic Signs; Glass Beads for
Reflecting Center Lines and Signs.

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
	Tucson	Ronsadt Hardware Co.
California	Oakland	George Avery
	San Francisco	Edward R. Bacon Co.
Colorado	Denver	Johnson-Tudor Co.
Idaho	Bolse	Engineering Sales Service, Inc.
	"	Intermountain Equipment Co.
Montana	Billings	Western Construction Equipment Co.
	Miles City	Tractor & Equipment Co.
New Mexico	Albuquerque	Lively Equipment Co.
	"	C.E. Mitchell Co.
Oregon	Portland	Columbia Equipment Co.
Washington	Spokane	Modern Machinery Co., Inc.
Wyoming	Cheyenne	Kereml Tractor & Equipment Co.
	Sheridan	Worham Machinery Co.

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	B.L. Macquand
		Asst. Sales Mgr.	F.S. Foster
		Sales Promotion	T.W. Fahey

WESTERN PARTS DEPOTS

California	Los Angeles	Caterpillar Tractor Co.
	San Leandro	" " "
Washington	Spokane	" " "

Continued in next column

CATERPILLAR TRACTOR CO. (Continued)

DISTRIBUTORS

Arizona	Casa Grande	Arizona Machinery Co.
	Coolidge	" " "
	Flagstaff	" " "
	Mesa	" " "
	Phoenix**	" " "
	Tucson	" " "
	Wellton	Braden Machinery Co.
	Yuma**	" " "
California	Arcata	Brizard-Matthews Machinery Co.
	Bakersfield	Davies Machinery Co.
	Blivthes**	Honnen Machinery Co.
	Brawley	Faure Tractor & Equipment Co.
	Brentwood	Peterson Tractor & Equipment Co.
	Chico**	Sierra Tractor & Equipment Co.
	Chowchilla	Halton Tractor 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 & Gulnn, Inc.
	Fresno**	" " "
	Gilroy	Ditz Bros.
	Goleta	Joseph G. Moore Co.
	Gridley	Sierra Tractor & Equipment Co.
	Hanford**	Davies Machinery Co.
	Hollister	Ditz Bros.
	Kino City	Pringle Tractor Co.
	Lancaster	Shepherd Machinery Co.
	Lodi	Holt Bros.
	Lompoc	Joseph G. Moore Co.
	Los Angeles**	Shepherd Machinery Co.
	Los Banos	Halton Tractor Co.
	Madera	Budd & Gulnn, Inc.
	Marysville**	Marysville Tractor & Equipment Co.
	Merced**	Halton Tractor Co.
	Modesto**	Valley Tractor & Equipment Co.
	Napa**	Berglund Tractor & Equipment Co.
	Ontario	Johnson Tractor Co.
	Orland	I.G. Zumwalt Co.
	Oxnard**	Wallace Machinery Co.
	Palo Robles	Joseph G. Moore Co.
	Porterville	Treanor Equipment Co.
	Red Bluff	Sierra Tractor & Equipment Co.
	Redding	" " "
	Reedley	Budd & Gulnn, 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**	Thomas A. Short Co. (Marine Engines)
	San Jose**	Ditz Bros.
	San Leandro**	Peterson Tractor & Equipment Co.
	San Pedro	Shepherd Marine (Marine Engines)
	Santa Ana	Shepherd Machinery Co.
	Santa Maria**	Joseph G. Moore Co.
	Santa Rosa	Berglund Tractor & Equipment Co.
	Sausalito	Shepherd Machinery Co.
	Sonoma	Valley Tractor & Equipment Co.
	Stockton**	Holt Bros.
	Tracy	" " "
	Tulare	Treanor Equipment Co.
	Tulelake	Croter Lake Machinery
	Turlock	Valley Tractor & Equipment Co.
	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.
Colorado	Woodland	Weaver Tractor Co.
	Alamosa	McGoy Company
	Denver**	" " "
	Grand Junction	" " "
	Sterling	" " "
Idaho	American Falls	Parkinson Tractor Co.
	Boise**	Bunting Tractor Co., Inc.
	Burley	" " "
	Fairfield	" " "
	Idaho Falls**	Parkinson Tractor Co.
	Lewiston**	Nez Perce Tractor & Equipment Co.
	Preston	Peterson Tractor Service
	Rexburg	Parkinson Tractor Co.
	Twin Falls	Bunting Tractor Co.
Montana	Billings**	Nash-Davis Machinery Co.
	Glasgow	Tractor & Equipment Co.
	Great Falls**	Central Machinery Co.
	Havre	" " "
	Kallispell	Westmont Tractor & Equipment Co.
	Lewiston	Central Machinery Co.
	Miles City	Tractor & Equipment Co.
	Missoula**	Westmont Tractor & Equipment Co.
	Sidney**	Tractor & Equipment Co.
	Elko	Sanford Tractor & Equipment Co.
Nevada	Las Vegas	James Cashman Co.
	Reno**	Sanford Tractor & Equipment Co.
New Mexico	Albuquerque	R.L. Harrison Co., Inc.

Continued on next page

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

CATERPILLAR TRACTOR CO. (Continued)

Oregon	Arlington	Empire Machinery Co.
	Astoria	Interstate Tractor & Equipment Co.
	Athens	Empire Machinery Co.
	Coquille	Interstate Tractor & Equipment Co.
	Enterprise	Inland Machinery Co.
	Eugene	Interstate Tractor & Equipment Co.
	Heppner	Empire Machinery Co.
	John Day	Inland Machinery Co.
	Klamath Falls	Grater Lake Machinery Co.
	La Grande	Inland Machinery Co.
	Medford	Grater Lake Machinery Co.
	Ontario	Bunting Tractor Co., Inc.
	Pendleton	Empire Machinery Co.
	Portland	Interstate Tractor & Equipment Co.
	Redmond	Grater Lake Machinery Co.
	Roseburg	Interstate Tractor & Equipment Co.
	Salem	" " " "
	The Dalles	" " " "
Utah	Logan	Peterson Tractor Service
	Salt Lake City	Wheeler-Kershaw Co.
	Tremonton	Peterson Tractor Service
Washington	Connell	Webb Tractor & Equipment Co.
	Dayton	Braden Tractor & Equipment Co., Inc.
	Ellensburg	Webb Tractor & Equipment Co.
	Ehrate	Columbia Tractor Co.
	Long View	Interstate Tractor & Equipment Co.
	Mount Vernon	Collins Machinery Co.
	Okanogan	Columbia Tractor Co.
	Port Angeles	Collins Machinery Co.
	Seattle	N.C. Marine (Marine Engines)
	Spokane	Byrne-Ferris Machinery Co.
	St. John	" " " "
	Tacoma	Murphy-Campbell Co.
	Toppenish	Webb Tractor & Equipment Co.
	Walla Walla	Braden Tractor & Equipment Co., Inc.
	Wenatchee	Columbia Tractor Co.
	Yakima	Webb Tractor & Equipment Co.
Wyoming	Casper	Wortham Machinery Co.
	Cheyenne	" " " "
	Greybull	Nash-Davis Machinery Co.
	Rock Springs	Wortham Machinery Co.
	Sheridan	" " " "

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

C & D MANUFACTURING CO.
A Division of Yuba Mfg. Co.
Perkins, California

PRODUCTS: Movall Wagon - Rock and Dirt Wagon to be used with DW15, DW20 and DW21 Caterpillar Rubber-Tired Tractors.

DISTRIBUTORS

Distributed through Caterpillar dealers.

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

PRODUCTS: "Rex" Dewatering Pumps; Building Mixers; Mortar and Plaster Mixers; Pavers; Pumpcrete (Concrete placed by Pipeline); Moto-Mixers.

FACTORY BRANCH

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

REGIONAL MANAGER

California San Francisco 366 Brannan 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	Butte	Hall-Perry Machinery Co.
	Great Falls	" " " "
Nevada	Reno	Pioneer Equipment Co.
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Oregon	Eugene	Loggers & Contractors Machinery Co.
	Portland	" " " "
Utah	Salt Lake City	Arnold Machinery Co.
Washington	Seattle	Conrad Greim Co.
	Spokane	Construction Equipment Co.
Wyoming	Casper	Kereml Tractor & Equipment Co.
	Cheyenne	" " " "

WESTERN CONSTRUCTION has won more First Place editorial awards than any other construction magazine west of New York!

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 & Trash Pumps; Single and Double Drum Hoists; Plaster and Mortar Mixers; Bar Cutters; Bar Benders; Tandem Rollers; Low-Bed Trailers.

DISTRIBUTORS

Arizona	Phoenix	Geo. S. Thomson Co., Inc.
California	San Francisco	Contractors Machinery Co.
	Los Angeles	Brown-Bevis Industrial Equipment
	Denver	Mine & Smelter Supply Co.
Colorado	Grand Junction	S & M Supply Co.
Idaho	Boise	Columbia Equipment Co.
New Mexico	Albuquerque	N.C. Ribble Co.
Oregon	Portland	Columbia Equipment Co.
Utah	Salt Lake City	Mine & Smelter Supply Co.
Washington	Seattle	Columbia Equipment Co.
	Spokane	" " " "
Wyoming	Casper	Moss Equipment & Supply Co.

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

PRODUCTS: Hydraulic Power Packs (Hi-Low-Power-Pack); Hydraulic Pumps; Hydraulic (Universal) Supply Tanks; Hydraulic Valves and Controls; Hydraulic Hose Couplers (Quick-Connect Type); Pneumatic Hose Couplers (Quick-Connect Type); Hydraulic Oil Filters (Universal Type); Hydraulic Cylinders (Standard); Hydraulic Cylinders (Strokecontrol); Reciprocating Hydraulic Motors.

FACTORY BRANCH

California Oakland 95 Market St., Box 1557 Geo. A. Kushman, Mgr.
Assistant Manager A.M. Kushman

DISTRIBUTORS

Alaska	(Portland)	Russ Chamberlin Co.
	(Seattle)	" " " "
	" "	Polson Implement Co.
	" "	Spencer Aircraft Industries, Inc.
Arizona	Phoenix	Air-Draulics Co.
California	Bakersfield	Bakersfield Hydraulic Jack Co.
	Central	Central Supply Co.
	Los Angeles	Fornaciari Co.
	San Jose	Power Transmission & Engineering Corp.
	Santa Ana	The H.C. Shaw Co., Inc.
	Santa Rosa	The Reliable Hardware & Steel Co.
	South Gate	Hydraulic Tool & Equipment Co., Inc.
	Stockton	The H.C. Shaw Co., Inc.
Colorado	Denver	George Brothers, Inc.
Idaho	Caldwell	Mitchell, Lewis & Staver
	Downey	Morgan's
Montana	Billings	Midland Implement Co.
New Mexico	Clovis	Dorris Distributing Co.
Oregon	Portland	Cascade Supply Co.
	" "	Russ Chamberlin Co.
	" "	Mitchell, Lewis & Staver
Utah	Salt Lake City	General Implement Co.
Washington	Seattle	Russ Chamberlin Co.
	" "	Polson Implement Co.
	" "	Spencer Aircraft Industries, Inc.
	Spokane	Calkins Manufacturing Co.
	" "	Mitchell, Lewis & Staver
	" "	Polson Implement Co.
	Walla Walla	Morrison Supply Co.
	Yakima	Central Chain & Transmission Co., Inc.

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

PRODUCTS: Dikesters, Pulp; Holders, Gas; Penstocks; Refinery Towers; Oil; Savelly, 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

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

WESTERN SALES MANAGERS

California	Los Angeles	Gen. Petro. Bldg.	Dean E. Stephen
	San Francisco	200 Bush St.	L.A. Elsener
Washington	Seattle	1355 Henry Bldg.	R.A. Jackson

Selling the West is an eleven-state job ...
WESTERN CONSTRUCTION covers it all!

C. I. T. CORPORATION
660 Market Street, San Francisco 416 West 8th Street, Los Angeles
Equitable Building, Portland

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" Scott
Colorado	Denver	Manager	E.R.Gossy
Utah	Salt Lake City	Assistant Mgr.	O.L.Briggs
Washington	Seattle	Manager	R.S.McBeth

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Eureka	Pierce Equipment Co.
	Fresno	Contractors Equipment & Supply Co.
	Los Angeles	Essick Machinery Co.
	Redding	Paul Droscher Sales
	San Diego	Shaw Sales & Service Co.
	San Francisco	Western Tractor Co.
Colorado	Denver	Stearns Roger Manufacturing Co.
	Reno	Gunderson-Taylor Machinery Co.
	Cortez	Stephens Machine & Tool Co.
Idaho	Idaho Falls	Arnold Machinery Co.
Montana	Butte	Hall-Perry Machinery Co.
	Great Falls	"
Nevada	Las Vegas	Inland Service & Supply Co.
	Reno	Pioneer Equipment Co. of Nevada, Inc.
New Mexico	Albuquerque	N.C.Ribble Co.
Oregon	Portland	P.L.Crooks & Co., Inc.
	"	Woodbury & Co.
Utah	Salt Lake City	Arnold Machinery Co.
	"	Industrial Supply Co.
Washington	Bellingham	Western Tractor & Equipment Co.
	Chehalis	"
	Seattle	Andrews Equipment Service of Washington
	Spokane	Western Tractor & Equipment Co.
	Tacoma	"

CHIKSAN CO.

930 North Pomona Avenue
Brea, California

PRODUCTS: Joints; Swivel Couplings; Swivel Monitors.

FACTORY BRANCHES

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

DISTRIBUTORS

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

W. L. CHILDERS MANUFACTURING CO.

605 Euclid Avenue Northwest
Albuquerque, New Mexico

PRODUCTS: Circulating Hot Oil Heaters; Asphalt Plant Equipment.

DISTRICT MANAGER

California	Berkeley	1690 Tacoma Ave.
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DISTRIBUTORS

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

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

CHRYSLER CORPORATION — Engineering Division

2000 Van Horn Road
Trenton, Michigan

PRODUCTS: Industrial Engines.

FACTORY BRANCH

California	Los Angeles	5800 S.Eastern Ave.	M.J.Yost, Mgr.
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DISTRIBUTORS

Alaska	Juneau	Northern Commercial Co.
	Ketchikan	"
California	Bakersfield	S.A.Camp Motor Co.
	Berkeley	Wilson Engine & Equipment Co.
	Fresno	West Coast Motors
	Marysville	Valley Motor Parts, Inc.
	Sacramento	Williams Motors
	San Diego	Dalton Motors, Inc.
	Stockton	Hudson Equipment Co.
	Wilmington	Equipment Sales & Service
	Woodland	Industrial & Marine Engines, Inc.
Colorado	Denver	William R.Cato
	Monte Vista	Houry-Berg Steel & Iron Works, Inc.
Nevada	Reno	Lockwood Graders of Colorado, Inc.
New Mexico	Albuquerque	Sierra Machinery Co.
	Clovis	Lively Equipment Co.
	Las Cruces	Inoram Bros. Pump Co.
	Roswell	Bulte Pump & Machinery Co.
Oregon	Portland	Smith Machinery Co.
Utah	Salt Lake City	The White Motor Co. (Diesel Engine Div)
Washington	Seattle	Hefer's, Inc.
	"	Evans Engine & Equipment Co.
	"	Northern Commercial Co.

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; Turbo-Dozers; Wacon Cranes.

WESTERN DISTRICT MANAGER

California	Menlo Park	210 Golden Oak Dr.	Marshall O.Nystrom
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WESTERN DISTRICT REPRESENTATIVES

California	Manhattan Beach	645 17th St.	Devereux W.Pedley
Washington	Seattle	500 Wall St.	Richard W.Lewis

DISTRIBUTORS

Alaska	Anchorage	Evans Engine & Equipment Co., Inc.
Arizona	Phoenix	Western Machinery Co.
California	Los Angeles	Smith-Booth-Usher Co.
	Oakland	Buran Equipment Co.
	"	Spears-Wells Machinery Co., Inc.
	Santa Clara	Buran Equipment Co.
Colorado	Denver	Western Machinery Co.
	Grand Junction	"
Idaho	Boise	Sawtooth Co.
	Twin Falls	"
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	Tolm Equipment Co.
	Spokane	"
Wyoming	Casper	Moss Equipment & Supply Co.

CLAYTON MANUFACTURING CO.

401 North 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	Frank E.Hissem
	San Francisco	3350 Divisadero St.	R.L.Read
	Walnut Creek	10 Ravenwood Dr.	Geo.J.Edwards
Colorado	Denver	2231 Newport	G.W.Turman
Oregon	Oreaga	3250 SW Upper Dr.	Jack B.Burdick
	Portland	.0645 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

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

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

PRODUCTS: Steam Boilers - Mobile, Portable, Stationary; Tank Car Heaters; Bituminous Boosters; "Peak-Temp" Oil Boosters; "Deuce" Combination Tank Car Heater and Pumping Booster.

DISTRIBUTORS

Alaska	Fairbanks	Glenn Carrington & Co.
Arizona	Phoenix	Arizona Cedar Rapids Co.
California	Los Angeles	Power Equipment Co.
		Sierra Machinery Co.
Colorado	Denver	H.W. Moore Equipment Co.
Idaho	Boise	Intermountain Equipment Co.
	Pocatello	" " " "
Montana	Billings	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	" " " "
Utah	Roseburg	Kimball Equipment Co.
	Salt Lake City	Intermountain Equipment Co.
Washington	Pasco	Howard-Cooper Corp.
	Seattle	Intermountain Equipment Co.
Spokane		Studer Tractor & Equipment Co.
Wyoming	Casper	" " " "

CLEVELAND FORMGRADER CO.
Mills Road
Avon, Ohio

PRODUCTS: Formgraders; Form Tampers; Scratch Templates; Trailgraders; Strike-Offs; Sub-grade Scrapers; Steel & 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; Ditchers; Tampers; Trailers; Trenchers.

DISTRIBUTORS

Arizona	Phoenix	Shriver Machinery Co.
California	San Francisco	Edward R. Bacon Co.
	Los Angeles	Smith-Booth-Usher Co.
Colorado	Denver	H.W. Moore Equipment Co.
Montana	Billings	Industrial Equipment Co.
	Great Falls	Normont Equipment Co.
	Kallispell	Treasure State Equipment Co.
	Missoula	" " " "
New Mexico	Albuquerque	J.D. Coakins Co.
Oregon	Eugene	Loggers & Contractors Machinery Co.
	Portland	" " " "
Utah	Salt Lake City	Wheeler-Kershaw Co.
Washington	Spokane	Western Machinery Co.
Wyoming	Casper	Kernl Tractor & Equipment Co.
	Cheyenne	" " " "

THE CLEVELAND VIBRATOR CO.
2828 Clinton Avenue
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. Meteser
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CLIPPER MANUFACTURING CO.
2825 Warwick
Kansas City 8, Missouri

PRODUCTS: Masonry Saws; Concrete Saws; Joint Sealers; Portable Hoists; Masonry and Concrete Sawing Diamond and Abrasive Blades.

FACTORY BRANCHES

California	Los Angeles	440 Seaton St.	Bob Stubbs, Mgr.
"	"	" " "	Colin Campbell, Repr.
"	"	" " "	John Goss, Repr.
	San Francisco	885 Bryant St.	Bob Stubbs, Mgr.
	"	" " "	Ray McCabe, Repr.

CLYDE IRON WORKS, INC.
Duluth 1
Minnesota

PRODUCTS: Cranes; Pile Hammers; Winches; Derricks; Tandem Rollers; Hoists; Whirleys.

DISTRIBUTORS

Arizona	Phoenix	State Tractor & Equipment Co.
California	Los Angeles	Herron 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	Western Construction Equipment Co.
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	Clyde Equipment Co.
Utah	Salt Lake City	Mine & Smelter Supply Co.
Washington	Seattle	Clyde Equipment Co.
	Spokane	Intermountain Equipment Co.

COFFING HOIST DIVISION
Duff-Norton Co.
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.

COLORADO FUEL & IRON CORP.
Continental Oil Building
Denver, Colorado

Wickwire Spencer Steel Div.
Palmer
Massachusetts

PRODUCTS: Clinton Welded Wire Fabric; Cal-Tie Wire; Blades for Graders, Dozers, Scrapers, Carryalls, Snow Plows; Wickwire Rope; Wire Rope Slings; Industrial Screens.

WICKWIRE ROPE DISTRIBUTORS

Alaska	Anchorage	Northern Supply Co.
Arizona	Douglas	Phelps-Dodge Mercantile Co.
	Phoenix	Arizona Hardware Co.
	"	Bill Johnson Supply Co.
	"	Lee Redman Equipment Co.
	"	Western Machinery Co.
California	Arcata	Reliable Hardware Co.
	Bakersfield	Davies Machinery Co.
	Boonville	John Ross & Son Co.
	Downey	Cutting Edge Supply Co.
	Fresno	Kyle Div., Pittsburgh Des Moines Co.
	Glendale	Air Associates, Inc.
	Hayward	Hill Supply Co.
	Jackson	Spinetti Brothers
	Long Beach	Bogby's Wire Rope & Spooling Service
	"	Cordege Supply Co.
	Los Angeles	A.M. Castle Co.
	"	Harper & Reynolds Corp.
	"	The Howard Supply Co.
	"	National Parts Distributors

Continued on next page

C. I. T. CORPORATION
660 Market Street, San Francisco 416 West 8th Street, Los Angeles
Equitable Building, Portland

**COLUMBIA-GENEVA STEEL DIVISION
UNITED STATES STEEL CORP.
120 Montgomery Street
San Francisco 6, California**

PRODUCTS: Steel & 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.Madden
Colorado	Denver	Manager Sales	J.B.Black, Jr.
Oregon	Portland	" "	E.M.Foudray
Utah	Salt Lake City	District V.P.	M.B.Harrison
Washington	Seattle	" "	M.H.Freedman

DISTRIBUTORS

Continued on next page

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

COLUMBIA-GENEVA STEEL DIVISION (Continued)

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	Glenn Carrington
	"	Fisheries Supply Co.
	"	J.E.Heseltine & Co.
	"	Lines, Inc.
	"	Chas.H.Rasmussen & Co.
	"	Joseph T.Ryerson & Son
Spokane		Marshall-Wells Co.
		Joseph T.Ryerson & Son
Tacoma		Hunt & Mottet Co.
Yakima		Yakima Hardware Co.

THE COMMERCIAL SHEARING & STAMPING CO.
Box 239
Youngstown 1, Ohio

PRODUCTS: Tunnel Lining Products; Oil Hydraulic Controls;
Heavy Steel Stampings and Forgings.

WESTERN PLANT

Utah Salt Lake City P.O.Box 2036 John R.Hagan

CONCRETE SAWING EQUIPMENT, INC.
331 N. Santa Anita
Arcadia, California

PRODUCTS: (Concut) Concrete Sawing Machines, Manual and
Propelled; Dummy Joint Sawing Equipment.

DISTRIBUTORS

Arizona	Phoenix	Builders Supply Co.
California	Inglewood	Techkote Co., Inc.
	Los Angeles	W.J.Burke Co.
	San Francisco	" " "
New Mexico	Albuquerque	" " "
Colorado	Denver	K.C.Construction Supply Co.
Oregon	Portland	Cramer Machinery Co.

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

PRODUCTS: "Berg" Concrete Surfacers; Hwy Surfacers.

DISTRIBUTORS

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

Colorado	Denver	Al Willets Sales Co.
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There are two natural regions in the national construction market — the West — the East
WESTERN CONSTRUCTION is first choice
in the Western half!

CONSOLIDATED MACHINERY & SUPPLY CO.
2031 Santa Fe Avenue
Los Angeles, 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

Arizona	Las Vegas	Inland Service & Supply Co.
	Phoenix	Arizona Electric Tool Co.
	"	Arizona Welding Equipment Co.
	Tucson	Industrial Tool & Supply Co.
California	Bakersfield	J.C.Wattenbarger
	Eureka	H.H.Buhne Co., Inc.
	Fresno	Sierra Machinery Co.
	Glendale	Cross Tool Co.
	Huntington Park	James Hardware Co.
	Los Angeles	Acme Industrial Supply Co.
	"	Atwood Machinery Co.
	"	Consolidated Machinery & Supply Co.
	"	Dinsmore Equipment Co.
	"	Enderle Hardware Co.
	"	Entz & Rucker
	"	Gliven Machinery Co.
	"	Gridley Equipment Co.
	"	Hoffman & Hearitt
	"	Ideal Contractors Co.
	"	Don G.Jenness
	"	Johnson's Hardware & Paint Co.
	"	Walter Leese & Son
	"	Mine & Mill Machine Co.
	"	Mitchell Machinery Co.
	"	Olympic Machinery Co.
	"	Pacific Saw & Supply Co.
	"	V.P.Poleos Co.
	"	M.N.Thackberry, Inc.
	"	Westwood Electric Tool Co.
	"	Woodworkers Supply Co.
	Montrose	Community Hardware
	Maywood	L.B.Johnson Hardware
	N.Hollywood	Electric Tool Service Co.
	"	General Industrial Tool & Supply, Inc.
	Northridge	Handy Hardware
	"	Northridge Equipment Co.
	Oakland	Dependable Machinery Co.
	Ontario	A.A.Equipment Sales & Rentals
	Oxnard	Maulhardt Equipment Co.
	Pasadena	John P.King
	"	O.D.McCawley
	"	M.N.Thackberry, Inc.
	Redondo Beach	Miklovik Bros. Machinery & Supply Co.
	Redwood City	Rockhold Tool Sales & Service
	Riverside	Kent's Tool & Supply Co.
	Sacramento	Sacramento Machinery Co.
	San Bernardino	Burford & Sons
	"	W.K.Equipment Co.
	"	Western Tool Co.
	San Diego	Acme Tool & Supply
	"	Contractors Equipment Co.
	"	Gould Hardware & Machinery Co.
	"	Hammond Machinery & Supply Co.
	"	Production Tools, Inc.
	San Gabriel	L.S.Tool Supply Co.
	"	San Gabriel Valley Electric Tool Co.
	Santa Ana	V.B.Anderson
	"	Blystone Equipment Co.
	Santa Barbara	Santa Barbara Tool & Supply
	Denver	Al Plankey & Associates
Colorado	"	Intermountain Equipment Co.
Idaho	Boise	M.R.Priest & Sons
	"	Arnold Machinery Co.
	Idaho Falls	Carl Weissman & Sons
Montana	Great Falls	Builders Machinery Co.
	Livingston	Blivstone Equipment Co.
Nevada	Las Vegas	Inland Service & Supply
	"	Sierra Machinery Co.
	Reno	Albuquerque Machine & Supply Co.
New Mexico	Albuquerque	Contractors Equipment & Supply
	"	John Warren Hardware Co.
Oregon	Eugene	Borbo Machinery Co.
	Portland	Portland Machinery Co.
	"	Arnold Machinery Co.
Utah	Salt Lake City	Equipment Supply Co.
	"	Industrial Supply Co.
	"	Clyde G.Larsen
	"	Rio Grande Lumber Co.
Washington	Seattle	Buckner-Weatherby Co., Inc.
	"	Campbell Industrial Supply Co.
	"	A.H.Cox & Co.
	"	Ernst Hardware Co.
	"	Olympic Supply Co.
	"	Tyee Machinery Co.
	Spokane	Hayden Tool Specialty Co.
	Tacoma	Campbell Industrial Supply Co.

WESTERN CONSTRUCTION is first choice of equipment
manufacturers — first choice is built into WC!

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

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, Asst. V.P.
California	Bakersfield	1710 Oak St.	H.R. Hammett
	Fresno	2421 Calif. Ave.	J.W. Hall
	San Francisco	120 Montgomery St.	A.C. Pye, Mgr.-Ofc. Sls.
Washington	Seattle	1729 Exchange Bldg	H. Haynes, Contr. Mgr.

CONSTRUCTION MACHINERY CO. Glenwood & Vinton Waterloo, Iowa

PRODUCTS: Concrete, Plaster & Mortar Mixers; Truck Mixers; Hoists; Pumps; Batching Equipment; Paving Equipment; Masonry Saws.

DISTRICT REPRESENTATIVE

California	San Carlos	1440 Cordilleras Ave.	Edw. R. Deley
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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	Feenoughy Machinery Co.
Montana	Billings	Industrial Equipment Co.
	Missoula	Westmont Tractor & Equipment Co.
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Portland	Feenoughy Machinery Co.
Utah	Salt Lake City	Heiner Equipment & Supply Co.
Washington	Seattle	Hatten Machinery Co.
	"	Universal Equipment Co.
	Spokane	Intermountain Equipment Co.

CONTINENTAL MOTORS CORP. 205 Market Street Muskegon, Michigan

PRODUCTS: Red Seal Internal Combustion Engines, Air-Cooled from 1½ to 3 HP, and Liquid-Cooled from 10 to 270 HP, for use on all standard fuels; engineered to specialized needs in agriculture, transportation and industry and built to more than 2,000 different specifications.

REGIONAL OFFICE AND WAREHOUSE

CONTINENTAL SALES AND SERVICE CO.

California	Los Angeles	3817 Santa Fe Ave.	B.F. Tobin, Jr., Pres.
		J.O. Longenecker, VP	In Charge of Sales

WESTERN SERVICE REPRESENTATIVE

California	Covina	780 Cypress St.	G.L. Hitchcock
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DISTRIBUTORS

Arizona	Phoenix	Automotive Sales Co.
	Tucson	Smith Equipment Service
California	Bakersfield	Glenn Rose Engine Co.
	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 Requaith
	Stockton	Automotive Parts
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	Skegas 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: Batches; Belt Fasteners; Bindicators; Bins; Conveyors; Crushers; Crushing Plants; Crushing Rolls; Elevators; Feeders; Steel Forms; Gravel Plants; Grizzlies; Hoppers; Jaw Crushers; Mixing Plants; Rock and Gravel Equipment; Screens; Storage Bins; Street Sweepers; Tunnel & Dam Forms; Vibrators; Washing Plants; Weighing Batches; Batch Printing Records; Conveyor Scales; Sand Dewatering Equipment.

COOK BROS. EQUIPMENT CO. 3330 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

California	San Mateo	P.O. Box 1002	Chris Sweeney
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COPPERWELD STEEL CO. Crick Building Pittsburgh 19, Pennsylvania

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

FACTORY BRANCHES

California	Los Altos	916 Fillip Rd.	A.B. Leach, Mgr.
Washington	Bellevue	10219 NE 30th Pl.	L.E. McGuire, Mgr.

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. 1290 Powell Street Emeryville, California

PRODUCTS: Concrete Paving Equipment; Hand Concrete Carts; Power Carts; Vibrating Screens; Telescoping Economy Pacing for wood beam application; Concrete Tamper; Tilt-up Slab Hardware Braces; Bull Floats; Concrete Floor Hoppers; Light Weight Concrete Buckets; Portable Hoppers; Collection Hoppers; Asphalt Spreader Boxes (Trench and Street).

DISTRIBUTORS

Arizona	Phoenix	Tractor Parts & Supply, Inc.
California	Los Angeles	W.J. Burke & Co.
	Sacramento	" " "
	San Francisco	" " "
New Mexico	Albuquerque	" " "
Oregon	Portland	" " "
Utah	Salt Lake City	Intermountain Concrete Specialties
Washington	Seattle	W.J. Burke & Co.

THE F. D. GUMMER & SON CO. 1827 East 18th Street Cleveland 14, Ohio

PRODUCTS: Bituminous Mixing Plants, Portable and Stationary; Aggregate Drives from 50 to 250 tons per hour; Pugmills or Mixers from 2000 to 8000 pounds; Bucket Elevators; Storage Bins; Jacketed Piping; Paving Tools; Dust Collectors.

DISTRIBUTORS

California	Los Angeles	Smith-Booth-Usher Co.
	San Francisco	Edward R. Bacon Co.
Colorado	Denver	Ray Corson Machinery Co.
Oregon	Portland	Nelson Equipment Co.
Utah	Salt Lake City	Lund Machinery Co.
Washington	Seattle	Hatten Machinery 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. specializes in financing equipment
for Distributors and Contractors**

CUMMINS ENGINE CO., INC.
Fifth and Union Sts.
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	411 W. Fifth St.	W. Sandham
Colorado	Denver	Denver Nat'l Bldg.	
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 Colorado, Inc.
Idaho	Boise	Cummins Diesel Sales of Idaho, Inc.
Montana	Billings	Cummins Diesel Sales of Montana, Inc.
New Mexico	Albuquerque	Cummins Rio Grande Sales & Service, Inc.
Oregon	Eugene	Cummins Diesel Sales of Oregon, Inc.
	Portland	"
Utah	Salt Lake City	Cummins Intermountain Diesel Sales Co.
Washington	Seattle	Cummins Diesel Sales of Washington, Inc.
	Spokane	Cummins Diesel Sales, Inc.
Wyoming	Casper	Cummins Diesel Sales of Wyoming, Inc.

DART TRUCK CO.
2623 Oak Street
Kansas City 8, Missouri

PRODUCTS: Heavy Duty Off-Highway Trucks; Coal Haulers; Crane Carriers; Transit Mixer Carriers.

DISTRIBUTORS

Arizona	Prescott	Prescott Tractor Sales
California	Los Angeles	Smith-Booth-Usher Co.
	Oakland	C.H. Grant Co.
Colorado	Denver	Western Machinery Co.
Oregon	Portland	Balzer Machinery Co.
Utah	Salt Lake City	Arnold Machinery Co.
Washington	Seattle	Conrad Crum Co.
	Spokane	Western 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.

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.S. Bohmker
		(Arizona, California and Nevada)	
Oregon	Portland	215 S.E. Morrison St.	A.G. McClary
		(Alaska, California, Idaho, Montana, Oregon & Washington)	
Utah	Salt Lake City	1841 W. 1700 South	W. Essenspreis
		(Idaho, Utah and Wyoming)	

DETROIT DIESEL ENGINE DIVISION
General Motors Corp.
Detroit 28, Michigan

PRODUCTS: Series 51, 71 and 6-110 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 200 KW Generator Sets for "off-the-line" or emergency service.

WESTERN FACTORY REPRESENTATIVES

Arizona	Phoenix	1833 W. Hazelwood	Gerry R. Holly
California	Los Angeles	227 S. Reno St.	A.W. Anderson
Colorado	Denver	1269 Garfield	H.K. McAfee
Washington	Seattle	4016 E. 60th St.	James T. Hanna

Continued in next column

DETROIT DIESEL ENGINE DIVISION (Continued)

DISTRIBUTORS AND DEALERS

Arizona	Phoenix	Min-A-Con Equipment Co.
California	Bakersfield	Lawless Brothers, Inc.
	Berkeley	West Coast Engine & Equipment Co.
	El Cajon	Deakins-Lane Diesel Co.
	Eureka	Dayton Murray Truck Sales
	Fort Bragg	West Coast Engine & Machine Works
	Marvsville	Randolph Machinery Co.
	Los Angeles	Anderson-O'Brien Co.
	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.
Idaho	Boise	Southern Idaho Equipment Co.
	Idaho Falls	"
	Twin Falls	"
Montana	Billings	Seltz Machinery Co., Inc.
	Great Falls	"
	Kallispell	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	Haupter Tractor Co.
	Portland	Gunderson Bros. Engineering Corp.
Utah	Salt Lake City	Cate Equipment Co., Inc.
Washington	Bellevue	Bellevue Engine & Equipment Co., Inc.
	Seattle	Evans Engine & Equipment Co., Inc.
	Spokane	Modern Machinery Co., Inc.
Wyoming	Casper	The Colorado Builders Supply Co.

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 Barrell 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
		Ronsch's Hardware
California	Anaheim	Power Tool & Supply Co.
	Bakersfield	Bakersfield Sandstone Brick Co.
	El Centro	Imperial Hardware Co.
	Fresno	Haven Saw & Tool Co.
	Long Beach	Imperial Hardware Co.
	Los Angeles	Acme Industrial Supply Co.
	"	Electric Tool & Supply
	"	Hoffman & Heatt
	"	Union Hardware & Metal Co.
	Oakland	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	Olis 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.
Idaho	Boise	M.R. Priest & Sons, Inc.
	"	The Sawtooth Co.
	Idaho Falls	Arnold Machinery Co., Inc.
	"	Brnts, Inc.
	Lewiston	Erb Hardware Co., Ltd.
Montana	Billings	Hall-Perry Machinery Co.
	Butte	"
	Great Falls	"
	Haure	"
	Livingston	Treasure State Supply Co.
	Missoula	Builders Machinery Co.
Nevada	Las Vegas	Missoula Mercantile Co.
	Reno	Inland Service & Supply Co.
New Mexico	Albuquerque	Commercial Hardware Co.
		Equipment Sales & Manufacturing Co.
		Gorman Engineering Co.
Oregon	Astoria	Fisher Bros.
	Coos Bay	A-B Daly & Co.
	Corvallis	Corvallis Hardware
	Eugene	Loggers & Contractors Machinery Co.

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C. I. T. CORPORATION
660 Market Street, San Francisco 416 West 8th Street, Los Angeles
Equitable Building, Portland

DE WALT, INC. (Continued)

	Portland	Chown Hardware
	"	Loggers & Contractors Machinery Co.
	"	Star Machinery Co.
	Salem	Salem Hardware
Utah	Salt Lake City	Arnold Machinery Co., Inc.
	"	Industrial Supply Co.
Washington	Bellevue	Bellevue Hardware Co.
	Moquiam	F.G.Gosier
	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.			
FACTORY REPRESENTATIVES			
California	Los Angeles	900 Santa Fe Ave.	J.H.Crews, Repr.
	Menlo Park	1090 El Camino	H.W.King, Dist.Mgr.
DISTRIBUTORS			
Arizona	Phoenix	Seamon Bearing & Supply Co.	
	Tucson	Tucson Bearing Co.	
California	Bakersfield	Power Transmission Equipment Co.	
	Fresno	Pacific Mill & Mine Supply Co.	
	Los Angeles	Deen-Flece Co.	
	"	Power Transmission Equipment Co.	
	Sacramento	Western Industrial Supply Co.	
	San Diego	Hudson Equipment Co.	
	San Francisco	Horsford Bros.	
	"	Monarch Supply Co.	
	Santa Clara	"	
	Stockton	Hickinbotham Bros.	
Colorado	Denver	Colorado Bearing Co.	
Montana	Billings	Power Transmission Equipment Co.	
New Mexico	Albuquerque	The Harry Cornelius Co.	
Oregon	Eugene	Woodbury Eugene	
	Medford	Woodbury Medford	
	Portland	Woodbury & Co.	
	Salt Lake City	Utah Sprocket & Machinery Co.	
Utah	Everett	Washington, Belting & Rubber Co.	
Washington	Seattle	" " " " " "	
	Tacoma	" " " " " "	
Wyoming	Casper	Bude Engine Sales & Service	

DIAMOND IRON WORKS
Halsted Street & 48th Place
Chicago 9, Illinois

PRODUCTS: Portable and Stationary Crushing Plants; Jaw Crushers; Roll Crushers; Screens and Washers; Conveyors; Feeders; Bins; Hoppers; Hammermills.			
DISTRICT SALES MANAGER			
Colorado	Denver	2389 Forest St.	G.A.McCorison
DISTRIBUTORS			
Arizona	Phoenix	State Tractor & Equipment Co.	
California	E.Los Angeles	Shaw Sales & Service Co.	
	Oakland	C.H.Grant Co.	
Colorado	Denver	Power Equipment Co.	
Idaho	Boise	Western Equipment Co.	
Montana	Missoula	Miller Machinery Co.	
New Mexico	Albuquerque	J.D.Coggins Co.	
Oregon	Portland	Nelson Equipment Co.	
Utah	Salt Lake City	Lund Machinery Co.	
Washington	Seattle	Totem Equipment Co.	
	Spokane	Western Machinery Co.	

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

PRODUCTS: Hose Couplings and Air Valves.			
FACTORY BRANCH			
California	Los Angeles	2333 E.104th St.	P.M.Hardwick
REGIONAL MANAGER			
Oregon	Portland	3935 S.W.75th Ave.	Thos.P.McNish

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

D & M MACHINE WORKS
2304 Abalone Avenue
Torrance, California

PRODUCTS: Bottom Rollers for Crawler Tractors.			
DISTRIBUTORS			
Arizona	Phoenix	Equipment Sales Co.	
California	Eureka	McGargahan Supply Co.	
	Fresno	Roll-Pak Filter Service	
	Redding	Paul Drascher Sales	
	Sacramento	Precision Engineering Co.	
	"	Western Equipment & Supply Co.	
Colorado	San Diego	Standard Iron & Supply Co.	
	Denver	Denver Machine Shop	
Idaho	Boise	Intermountain Equipment Co.	
	Coeur d'Alene	Brack Motor Supply	
	Kellog	" " "	
Montana	Great Falls	" " "	
Oregon	Grants Pass	Redwood Supply Co.	
	Coos Bay	A.B.Daly	
	Eugene	Eugene Equipment Co.	
	Mohv & Van Dyle	" " "	
	John Day	Industrial Machinery & Supply Co.	
	La Grande	Timberline Equipment Co.	
	Portland	G.R.Schore Equipment Co.	
	Roseburg	Rasmussen Equipment & Supply	
Utah	Salt Lake City	Whitcher Machinery Co.	
Washington	Aberdeen	Western Tractor & Equipment Co.	
	Seattle	Intermountain Equipment Co.	
	Spokane	Kerem Tractor & Equipment Co.	
Wyoming	Casper	" " "	
	Cheyenne	" " "	

DODGE DIVISION
Chrysler Corp.
7800 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; Dewaterers, 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; Aerator; Airlifters; Fillers; Vacuum Filters; Sand Plants.	
FACTORY BRANCHES	
California	Los Angeles
Colorado	Oakland
Washington	Seattle

DOTMAR INDUSTRIES, INC.
502 Hanselman Building
Kalamazoo, Michigan

PRODUCTS: Dotmar "Speedmaster" Curb, Gutter, Sidewalk and Highway Strip Widening; Highway Mill Curb Pavers; Dotmar "Atr-Ace" Pneumatic Hammer and Tools.		
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	Rav Corson Machinery Co.
Montana	Billings	Western Construction Equipment Co.
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Oregon	Portland	Contractors Equipment Corp.
Utah	Salt Lake City	Lund Machinery Co.
Washington	Seattle	Andrews Machinery of Washington, Inc.
Wyoming	Cheyenne	Kerem Tractor & Equipment Co.

DOUG-LYNN MANUFACTURING CO.
339 Fifteenth Street
Oakland 12, California

PRODUCTS: True-Lay Paver, Model 8 and Model 8A with Airlift; True-Roll, 2 - 3 ton Roller with Cradle-Trailer.	
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WESTERN CONSTRUCTION has won more First Place editorial awards than any other construction magazine west of New York!

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

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.
	"	"
	"	Garlinghouse-Fremont & Co.
Colorado	Denver	H.W. Moore Co.
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 San Francisco 101 S. Airport Blvd. R.J. Driggs

REGIONAL MANAGERS

California San Francisco 101 S. Airport Blvd. R.J. Driggs
Colorado Denver 3221 Leyden St. D.V. Hackett

DISTRIBUTORS

California	Los Angeles	Bethlehem Supply Co. of California
	"	The Republic Supply Co. of California
	San Francisco	Grinnell Co. of the Pacific
Colorado	Denver	Hendrie & Botthoff 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 Crellm Co.

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

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

DISTRICT REPRESENTATIVES

California	Hayward	1775 St. Andrew St.	Charles Rieckhoff
Oregon	Portland	1909 NE 73rd, Apt. 4	Robert Jephson

DISTRIBUTORS

See your International Harvester Company Distributor.

DUFF-NORTON MANUFACTURING CO.
2710 Preble Avenue
Pittsburgh 30, Pennsylvania

PRODUCTS: Duff-Norton Jacks; Coffing Holsts.

FACTORY BRANCH

California San Francisco 1016 Howard St. Ralph Ratcliff, Mgr.

DISTRIBUTORS

California	Anaheim	Pipe Line Specialties
	Berkeley	Berkeley Industrial Supply Co.
	Bakersfield	Inland Equipment Co.
	El Centro	Imperial Hardware Co.
	Fresno	Graybar Electric Co.
	"	Inter-Valley Equipment Co.
	Gilroy	Be-Ge Manufacturing Co.
	Long Beach	American Wholesale Hardware Co.

Continued in next column

DUFF-NORTON MFG. CO. (Continued)

Los Angeles	Almquist Bros.
"	Brown-Bevis Industrial Equipment Co.
"	California Hardware Co.
"	Constructors Supply Co.
"	Ducommun Metals & Supply Co.
"	Fornaciari Co.
"	Garlinghouse-Fremont Co.
"	General Electric Supply Co.
"	Graybar Electric Co.
"	Harper & Reynolds Corp.
"	G.W. Hassler
"	Howard Supply Co.
"	Oil Well Supply Co.
"	Larsen Equipment Co.
"	Stanley E. Morris Co.
"	Rawlins Bros.
"	Republic Supply Co.
"	Smith-Booth-Usher Co.
"	J.G. Tucker & Son
"	Union Hardware & Metal Co.
"	Vernon Engineering Co.
Oakland	Edward R. Bacon Co.
"	Bowlin Equipment Co.
"	Gilmore Fabricating Co.
"	Graybar Electric Co.
"	Howard Supply Co.
"	Industrial Equipment Co.
"	Mechanics Tool & Supply Co.
"	Noble Co.
"	Ricker Machinery Co.
"	Voegtly & White
"	Western Tool Supply Co.
"	J.H. Wilson Co.
Sacramento	Edward R. Bacon Co.
"	General Electric Supply Co.
"	Graybar Electric Co.
"	Thompson-Diggs Co.
San Diego	Hudson Equipment Co.
"	Reuther Equipment Co.
"	Standard Iron Supply
"	Western Metal Supply Co.
San Francisco	Edward R. Bacon Co.
"	Baker & Hamilton
"	Fred E. Barnett Co.
"	C.H. Bull Co.
"	C.F. Bulloff Machinery Co.
"	California Industrial Supply Co.
"	Walter R. Carr Co.
"	Coast Equipment Co.
"	Dunham, Carrigan & Hayden
"	General Electric Supply Co.
"	Gilmore Steel & Supply Co.
"	A.J. Glesener Co.
"	Graybar Electric Co.
"	Harbor Supply Co.
"	C.J. Hendry Co.
"	C.M. Lovstad & Co.
"	Marshall Newell Supply Co.
"	C.W. Marwedel Co.
"	Miller & Stern Supply Co.
"	Geo. M. Philpott Co.
"	A.D. Schader Co.
"	Sloss & Brittain
"	Standard Machinery Co.
"	Weeks-Hove-Emerson Co.
"	Westinghouse Electric Supply Co.
"	Republic Supply Co.
San Jose	" " "
San Leandro	" " "
Stockton	Hickinbotham Bros.
Oregon	Andrews & Andrews Equipment Co.
Portland	Clyde Equipment Co.
"	A.W. Davis Supply Co.
"	General Electric Supply Co.
"	General Tool Co.
"	Graybar Electric Co.
"	Marshall-Wells Co.
"	Railway Equipment Co.
"	Star Machinery Co.
"	Woodbury Co.
"	Zidell Machinery & Supply Co.
Washington Seattle	Andrews Machinery Co.
"	B & J Equipment Co.
"	Clyde Equipment Co.
"	A.H. Cox & Co.
"	General Electric Supply Co.
"	Graybar Electric Co.
"	C.M. Lovstad & Co.
"	Marshall-Wells Co.
"	Northern Commercial Co.
"	Schwabecker Hardware Co.
"	Seattle Hardware Co.
"	Star Machinery Co.
"	Western Tractor & Equipment Co.
"	Westinghouse Electric Supply Co.
Spokane	Andrews Equipment Service
"	Construction Equipment Co.
"	General Electric Supply
"	General Machinery Co.
"	Graybar Electric Co.
"	Jensen-Byrd Co.
"	Marshall-Wells Co.
"	Star Machinery Co.
"	Western Machinery Co.
"	Westinghouse Electric Supply Co.
Tacoma	Graybar Electric Co.
"	Hunt & Moffet Co.
"	W.S. Walter Co.

C. I. T. CORPORATION
660 Market Street, San Francisco
416 West 8th Street, Los Angeles
Equitable Building, Portland

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

PRODUCTS: A Multiple Piston Hydraulic Jack for Breaking Concrete where use of explosives is prohibited.

FACTORY BRANCH

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

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	Los Angeles	Mine & Mill Machinery Co.
Colorado	Denver	Air Rentals, Inc.

EAGLE CRUSHER CO.
 Galion
 Ohio

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

DISTRIBUTORS

California	Berkeley	Work Holst & Body Corp.
	Los Angeles	Standard Auto Body Co.
	San Diego	Diesel Construction Equipment 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
 129 Holcomb Street
 Des Moines 4, Iowa

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

DISTRIBUTORS

Arizona	Phoenix	Shriver Machinery Co.
California	Los Angeles	Brown-Beris Industrial Equipment Co.
	" "	Fernholtz Machinery Co.
	" "	Walter C. Stoll & 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	P.L. Crooks & Co., Inc.
Utah	Salt Lake City	The Lang Co.
Washington	Seattle	Jack Sehlberg Equipment Co.
	Spokane	Intermountain Equipment Co.
Wyoming	Casper	Kereml Tractor & Equipment Co.
	Cheyenne	" " " " " "

EARTHCAVATOR CO., INC.
 P. O. Box 5
 Downey, California

PRODUCTS: Scrapers with Scarifiers.

FACTORY BRANCH

California Whittier 9243 S. Norwalk Blvd. M.C. Davis, Mgr.

DISTRIBUTORS

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

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EARTH EQUIPMENT CORP.
 2036 Sacramento Street
 Los Angeles 21, California

PRODUCTS: Everett Trenchers (Tractor-Mounted), Model S Series and 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 Distributors, Inc. (So.)
	(Portland)	R.M. Wade & Co. (Northern)
Nevada	(Los Angeles)	The Tractor Sales Corp.
New Mexico	Albuquerque	Joe Heaston Motor Co., Tractor Div.
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 & Rear; Single Reduction, 2-Speed, Tandem.

DISTRIBUTORS

See your local truck dealer.

ECONOMY FORMS CORP.
 4301 Northeast 14th Street
 Des Moines 13, Iowa

PRODUCTS: Steel Forms for Concrete Construction; Ties for Economy and EFCO Forms.

FACTORY BRANCHES

California	Los Angeles	5718 Long Beach Ave.	Robert Crowe, Mgr.
Colorado	Denver	2803 Walnut St.	E.L. Morrett, Mgr.

REPRESENTATIVE

California Oakland 190 MacArthur Blvd. L.S. Dingman

E. H. EDWARDS CO.
 Butler Road & Industrial Way
 South San Francisco, California

PRODUCTS: Wire Rope.

FACTORY BRANCHES

California	Los Angeles	Manager	Paul Sanderson
Oregon	Portland	"	Fred Butler
Washington	Seattle	"	Ralph Brown

THE EIMCO CORP.
 634 South Fourth West Street
 P.O. Box 300
 Salt Lake City 10, Utah

PRODUCTS: Crawler Tractors; Bulldozers; Annelozers; 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.	E.G. Burger
	Pasadena	434 N. Lake Ave.	G. Slajchert
Idaho	Kellogg	307 N. Division St.	C.H. Hever
Texas	El Paso	Mills Bldg.	H.W. Foester
Washington	Seattle	Hoar Bldg.	B.J. Dickinson

REGIONAL MANAGER

California Berkeley J.K. Russell 637 Cedar St.

ELECTRIC STEEL FOUNDRY CO.
 2141 Northwest 25th Avenue
 Portland 10, Oregon

PRODUCTS: Draglines; Dippers; Fastback Hoe Dippers; Orange Peels; Clamshell Buckets; Grapples; Points; Adapters; Blades; Blade Ends; Dozer-Rooters; Dragline Bucket Replacement Parts and Rigging.

FACTORY BRANCHES

California	Emeryville	1280-65th St.	Hal Robb, Mgr.
	Los Angeles	4500 Pacific Blvd.	Joe Blake, Mgr.
Oregon	Eugene	1464 W. Sixth St.	Lloyd Maxwell, Mgr.
Washington	Seattle	1131 W. Hanford St.	Bill Letimer, Mgr.
	Spokane	N. 1327 Washington	Netto Vanelli, Mgr.

Continued on next page

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

ELECTRIC STEEL FOUNDRY CO. (Continued)

DISTRICT REPRESENTATIVES

Arizona	Phoenix	P.O.Box 7265	Rolly Topping
Colorado	Denver	P.O.Box 534	Gordon Lev
Utah	Salt Lake City	P.O.Box 1379	Garland Allen

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

PRODUCTS: Vibrators (Concrete, Paving and for moving materials from bins, hoppers and chutes); Portable Gas-Electric Power Plants; Soil Compactors.

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	Billings	Hall-Perry Machinery Co.
Montana	Butte	"
	Great Falls	"
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Portland	Loggers & Contractors Machinery Co.
Utah	Salt Lake City	Western Machinery Co.
Washington	Seattle	A.H.Cox & Co.
	Spokane	Western Machinery Co.

ERIE STRAYER CO.

Geist Road & Nickel Plate Railroad
Erie, Pennsylvania

PRODUCTS: Buckets - Clamshell, Coal, Ash & Ore Handling, Dredging and Excavating, Dump, Foundry, Grapple, Rehandling, Rock & Slag, Concrete.

DISTRIBUTORS

Alaska	Anchorage	Northern Supply Co.
	(Seattle)	Glenn Carrington & Co.
Arizona	Flagstaff	Hutchison Motors
	Phoenix	Equipment Sales Co.
	"	Neil B. McGinnis Equipment Co.
	"	Lee Redman Equipment Co.
	"	Shriver Machinery Co.
	"	The O.S. Stapley Co.
	"	Slate Tractor & Equipment Co.
	"	Superior Equipment Co.
	"	Western Machinery Co.
California	Alhambra	Frank Cox Equipment Co.
	Bakersfield	Brown-Bevis Industrial Equipment Co.
	"	San Joaquin Tractor Co.
	Berkeley	Owen Bucket Co.
	"	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 Equipment Co.
	"	Calaver Corporation
	"	Casew-McCall Machinery Co.
	"	Crook Company
	"	Essick Machinery Co.
	"	Garlinghouse, Fremont & Co.
	"	Harrold 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.
	"	Sears-Wells Machinery Co.
	Redding	Sullivan & Grove 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
	"	Moore Equipment Co.
Colorado	Denver	Constructors Equipment Co.
	"	Ray Corson Machinery Co.
	"	McCoy Company
	"	Western Machinery Co.

Continued in next column

ERIE STRAYER CO. (Continued)

Idaho	Boise	Engineering Sales Service, Inc.
	"	Feenoughy Machinery Co.
	"	Starline Equipment Co.
	"	Western Equipment Co.
	"	Southern Idaho Equipment Co.
Montana	Idaho Falls	Seitz Machinery Co., Inc.
	Billings	Hall-Perry Machinery Co.
	Butte	Caird Engineering Works
	Helena	Montana Power & Equipment Co.
	Missoula	Mountain Tractor Co.
	Slidewell	Treasure State Equipment Co.
	Sidney	Tractor & Equipment Co.
Nevada	Elko	A-D Machinery Co., Inc.
	Reno	Nevada Equipment Service, Inc.
	"	Sierra Machinery Co., Inc.
New Mexico	Albuquerque	J.D. Coggins Co.
	"	Contractors Equipment & Supply Co.
	"	The Winter Weiss Co. of New Mexico
Oregon	Cave Junction	Illinois Valley Hardware
	Klamath Falls	Haupter Tractor Co.
	"	J.W. Kerns, Oreg. Ltd.
	"	Moty & Van Dyke, Inc.
	Medford	Haupter Tractor Co.
	Portland	Andrews & Andrews Equipment Co.
	"	Balzer Machinery Co.
	"	M.F. Brady Equipment Co.
	"	Clyde Equipment Co.
	"	Columbia Equipment Co.
	"	Cramer Machinery Co.
	"	P.L. Crooks & Co., Inc.
	"	Feenoughy Machinery Co.
	"	Howard-Cooper Corp.
	"	Loggers & Contractors Machinery Co.
	"	Nelson Machinery Co.
	"	Western Equipment Co.
Utah	Salt Lake City	Arnold Machinery Co.
	"	Heiner Equipment & Supply Co.
	"	Kimball Equipment Co.
	"	The Lang Co.
	"	Lund Machinery Co.
	"	Rasmusen Equipment Co.
	"	Rocky Mountain Machinery Co.
	"	Western Machinery Co.
	"	Wheeler-Kershaw Co.
Washington	Seattle	Alt-Mac, Inc.
	"	Andrews Machinery of Washington
	"	Clyde Equipment Co.
	"	Feenoughy Machinery Co.
	"	Modern Machinery Co., Inc.
	"	Pacific Holst & Derrick Co.
	"	Totem Equipment Co.
	"	Washington Machinery Co.
	"	Andrews Equipment Service
	"	Construction Equipment Co.
	"	Feenoughy Machinery Co.
	"	General Machinery Co.
	"	Intermountain Equipment Co.
	"	Modern Machinery Co., Inc.
	"	Western Machinery Co.
Wyoming	Casper	Moss Equipment & Supply Co.
	"	Studer Tractor & Equipment Co.
	Cheyenne	Kereml Tractor & Equipment Co.
	"	Wortham Machinery Co.

ESSICK MANUFACTURING CO.

1950 Santa Fe Avenue
Los Angeles 21, California

PRODUCTS: Bituminous Distributors; Portable and Stationary Compressors; Dredging Equipment; Material Handling Hoists; Paving Material Levellers; Plaster, Mortar, Concrete and Plant Mixers; Self-Priming and Diaphragm Power Pumps; Tandem Road Rollers; Vibrating Rollers; Paving Material Spreaders; Road Roller Trailers; Winches; Mortar Boxes; Weed and Pest Control Equipment.

DISTRIBUTORS

Alaska	(Seattle)	Northern Commercial Co.
Arizona	Phoenix	Equipment Sales Co.
California	Arvin	E.O. Mitchell, Inc.
	Bakersfield	"
	El Centro	W.K. Equipment Co.
	Escondido	Southern Equipment & Supply Co.
	Eureka	Howard-Cooper Corp.
	Fresno	Constructors Equipment & Supply
	Oakland	Ricker Machinery Co.
	Ontario	A.A. Equipment Sales & Rentals
	Oxnard	L.G. Maulhardt Equipment Co.
	Redding	Sullivan & Grove Equipment Co.
	San Bernardino	W.K. Equipment Co.
	San Diego	Southern Equipment & Supply Co.
Colorado	Denver	King & East Machinery Corp.
	Boise	Western Equipment Co.
Idaho	Billings	Montana Power & Equipment Co.
Montana	Helena	"
Nevada	Las Vegas	Inland Service & Supply Corp.
	Reno	Nevada Equipment Service, Inc.
	"	General Equipment Co.
New Mexico	Albuquerque	R.L. Harrison Co., Inc.

Continued on next page

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

ESSICK MANUFACTURING CO. (Continued)

Oregon	Albany	Howard-Cooper Corp.
	Central Point	" " "
	Coquille	" " "
	Eugene	" " "
Utah	Portland	" " "
	Roseburg	Clyde Equipment Co.
Washington	Salt Lake City	Howard-Cooper Corp.
	Seattle	Lund Machinery Co.
Wyoming	Spokane	Clyde Equipment Co.
	Casper	General Machinery Co.
		Studer Tractor & Equipment Co.

E. D. ETNYRE & CO.
Oregon
Illinois

PRODUCTS: Bituminous Distributors; Hauling Tanks & Maintenance Units; Asphalt Pumps; Street Flushers & Sprinklers.

DISTRIBUTORS

Arizona	Phoenix	Neill B. McGinnis Co.
	Los Angeles	Crook Co.
California	Richmond	Bay Equipment Co.
	Denver	Colorado Builders & Supply Co.
Colorado	Boise	Intermountain Equipment Co.
	Pocatello	" " "
Montana	Billings	Industrial Equipment Co.
	Great Falls	Normont Equipment Co.
New Mexico	Kellispell	Treasure State Equipment Co.
	Albuquerque	R.L. Harrison Co.
Oregon	Eugene	Howard-Cooper Corp.
	Portland	" " "
Utah	Klamath Falls	" " "
	Roseburg	" " "
Washington	Salt Lake City	Kimball Equipment Co.
	Seattle	Howard-Cooper Corp.
Wyoming	Spokane	Intermountain Equipment Co.
	Casper	Colorado Builders' Supply Co.

EUCLID DIVISION
General Motors Corp.
1361 Chardon Road
Cleveland 17, Ohio

PRODUCTS: Earthmoving Equipment.

WESTERN REGIONAL MANAGER

California Oakland 606 Syndicate Bldg. M.H. Johnson

DISTRICT SALES REPRESENTATIVES

California	Sacramento	710 LaSerra Dr.	H.P. Behl
Colorado	Denver	110 Ivy St.	E.C. Dellen
Montana	Great Falls	2000 1st Ave. No.	M.W. Miller
Washington	Bellevue	10038 N.E. 30th Pl.	W.B. Dickerson
	Spokane	1621 S. Grand Blvd.	J.S. Spilman

DISTRIBUTORS

Alaska	Anchorage	Evans Engine & Equipment Co., Inc.
	Phoenix	Min-A-Con Equipment Co.
Arizona	Monrovia	George M. Philpott Co., Inc.
	Oakland	" " " "
California	Sacramento	" " " "
	San Francisco	" " " "
Colorado	Fresno	" " " "
	Denver	Colorado Builders Supply Co.
Idaho	Boise	Intermountain Equipment Co.
	Pocatello	" " "
Montana	Billings	Hall-Perry Machinery Co.
	Great Falls	" " "
Nevada	Missoula	" " "
	Reno	Sierra Machinery Co., Inc.
New Mexico	Albuquerque	Lively Equipment Co.
	Portland	P.L. Crooks Co.
Oregon	Salt Lake City	Fouler Equipment Co.
	Seattle	Evans Engine & Equipment Co., Inc.
Washington	Casper	Colorado Builders Supply Co.

EUGENE ENGINEERING CO.
1405 W. 1st Street
Eugene, Oregon

PRODUCTS: EECO Rock Drills.

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

EVEREADY BRICKSAW CO.
1509 South Michigan Boulevard
Chicago 5, Illinois

PRODUCTS: Masonry Saws and Blades; Concrete Saws and Blades.

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
	Los Angeles	Celmo Engineering Co.
California	" "	Consolidated Rock Products
	" "	M.N. Thackerberry Co.
San Diego	San Diego	Southern Equipment & Supply Co.
	San Francisco	Edward R. Bacon Co.
Colorado	" "	E.J. Bartells Co.
	Santa Monica	Higgins Building Materials, Inc.
Montana	Denver	Western Machinery Co.
	Grand Junction	" " "
Nevada	Billings	Hall-Perry Machinery Co.
	Butte	" " "
New Mexico	Great Falls	" " "
	Las Vegas	Inland Service & Supply Co.
Oregon	Albuquerque	Lively Equipment Co.
	Portland	E.J. Bartells Co.
Utah	Salt Lake City	Western Machinery Co.
	Seattle	E.J. Bartells Co.
Washington	Spokane	Ster Machinery Co.
	" "	E.J. Bartells Co.
Wyoming	Cheyenne	Powers Builders Supply

FELKER MANUFACTURING CO.
1128 Border Avenue
Torrance, California

PRODUCTS: Concrete Cutters; Masonry Saws; Diamond Abrasive Blades.

DISTRIBUTORS

Arizona	Phoenix	Superior Equipment Co.
California	Los Angeles	Hickerson Supply Co.
	San Francisco	" " "
Utah	Salt Lake City	Contractors Equipment Co.
	Seattle	A.H. Cox & Co.

FRANK B. FERRIS, JR.
1297 Muscott Street
San Bernardino, California

PRODUCTS: Ferris Brush Grubbers for Heavy Duty Land Clearing, Rock Clearing, Root Grubbing, Soil Compaction, and for all makes Bulldozers and Angledozer Blades.

DISTRIBUTORS

Arizona	Phoenix	Starline Equipment Co.
	Bakersfield	Hopper Machine Works, Inc.
California	Fresno	Edward R. Bacon Co.
	Montebello	H & L Tooth Co.
Oakland	Oakland	Edward R. Bacon Co.
	Sacramento	" " " "
Colorado	San Francisco	" " " "
	Aurora	M.J. Crose Manufacturing Co.
Idaho	Denver	Air Rentals, Inc.
	Boise	Starline Equipment Co.
Montana	Butte	Hall-Perry Machinery Co.
	Great Falls	" " "
Nevada	Reno	Pioneer Equipment Co. of Nevada
	" "	C.R. Roeder Equipment Co.
New Mexico	Albuquerque	Sierra Machinery Co.
	Contractors Equipment & Supply Co.	
Oregon	Albany	Howard-Cooper Corp.
	Central Point	" " "
Utah	Coquille	" " "
	Eugene	" " "
Washington	Newport	" " "
	Portland	" " "
Wyoming	Roseburg	" " "
	Salt Lake City	Helner Equipment & Supply Co.
Spokane	Seattle	Howard-Cooper Corp.
	Modern Machinery Co.	

FLASH-r-LITE CORP.
1945 Blake Avenue
Los Angeles 39, Calif.

PRODUCTS: Warning Lites and Barricades with Scotch Lite Signs for use by contractors on construction jobs, and other similar projects.

FACTORY BRANCHES

California	Goleta	P.O. Box 353	R. Chamberlin
	Oakland	351 Embarcadero	K.L. Thurston and Wm.L. Selig, Jr.
San Diego	San Diego	1815 Hancock St.	Ned C. Crawford
	Santa Clara	1706 Grant St.	R. Burton Rose

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

FLECO CORP.
1375 West Church Street
Jacksonville 3, Florida

PRODUCTS: "Fleco" Land Clearing Equipment; Detachable Stumper, Pull Stumper, Root Rake, Rock Rake, Brush Rake, Treedzer, Tree Cutter, Undercutter, Rolling Dual Chopper, Motor Grader V-Plane, Cab Guard, Subtilage Tool-Cane, Root Cutters, Barring and Bedding Discs.

WESTERN REPRESENTATIVE

Washington Vancouver 730 N. Norelius Rd. E.V. Frankenberg

FLEXIBLE ROAD JOINT MACHINE CO.

Warren
Ohio

PRODUCTS: Concrete Road Building Machinery.

DISTRIBUTORS

California	N. Hollywood	Elrick Equipment Co.
	San Francisco	Coast Equipment Co.
Colorado	Denver	Rocky Mountain Equipment & Supply Co.
Idaho	Boise	Western Equipment Co.
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Oregon	Portland	Columbia Equipment Co.
Utah	Salt Lake City	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	Long Beach	5021 The Toledo	Newton Crum
		(Arizona and California)	
Washington	Seattle	10146 Holman Rd.	John Marshall
		(Oregon and Washington)	

FORD MOTOR CO.

Tractor & Implement Division
Financial Center Bldg.
Oakland 12, California

PRODUCTS: Tractors and Implements.

REGIONAL REPRESENTATIVES

California	Oakland	1508 Financial Center Bldg.
	Western Region Sales Manager	J. Lockwood, Jr.
	Regional Sales Representative	T.W. Heming
	Regional Sales Representative	R.A. Pender
	Service Representative	G.W. Riley
	Parts Representative	J.W. Bressler

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 & Fabrication; Welding Fittings and Flanges; New Relaying Rails; Track Accessories and Tools.

REGIONAL OFFICE

California Los Angeles 3460 Wilshire Blvd.

FOSTER TRAILER CO., INC.

2026 Bay Street
Los Angeles 21, Calif.

PRODUCTS: Tilt Bed Trailers 2 through 35 Ton Capacities; Low-Bed Trailers to 60 Ton Capacities; Semi and Full Trailers to 25 Ton Capacities; Logging and Pipe Dollies; Converter Dollies and Third Axle Units; Flat Bed and Stake Bodies; Special Trailers.

DISTRIBUTORS

Arizona	Phoenix	Superior Coach Sales & Service
California	Fresno	Peerless Tractor & Equipment Co.
	Los Angeles	Shaw Sales & Service Co.
	" "	Smith-Booth-Usher Co.
	Oakland	Buran Equipment Co.
	Redding	Moore Equipment Co.
	Riverside	Shaw Sales & Service Co.
	San Francisco	Hell Equipment Co.
	Sacramento	Moore Equipment Co.
	San Diego	Shaw Sales & Service Co.
	Santa Barbara	Buck Sales, Inc.
	Stockton	Moore Equipment Co.
	Tustin	Schneider Tractor Co.
Idaho	(Portland)	Schelky Equipment Corp.
Montana	Kalispell	Mountain Tractor Co.
	Missoula	" "
Nevada	Reno	Moore Equipment Co.
	Las Vegas	Clerk County Wholesale Mercantile Co.
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	Schelky Equipment Corp.
Utah	Salt Lake City	Arnold Machinery Co.

THE FOUR WHEEL DRIVE AUTO CO.

East 12th
Clintonville, Wisconsin

PRODUCTS: Four and Six-Wheel Drive Trucks; Truck Derricks; Earth Drilling Fire Engines; Road Maintenance Equipment; Snow Plows; Winches; Trailers.

DISTRICT MANAGERS

California	Burlingame	1256 Cortez Ave.	Ronald C. Gehrke
	Pomona	2204 Virginia Ave.	Jack Kelly
Oregon	Portland	8427 SW 58th Ave.	Les Berndt

DISTRIBUTORS

Arizona	Phoenix	Arizona Cedar Rapids Co.
California	Los Angeles	Celavay 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. Rumpy
California	Fresno	"	John Calvert
	Los Angeles	"	C.R. McCuddin
	Oakland	"	W.R. Pavola
	Sacramento	"	W.R. Pavola
Oregon	Portland	"	W.J. Jarvis
Texas	El Paso	"	R.E. Strother
Utah	Salt Lake City	"	P.K. Quinn
Washington	Seattle	"	A.V. Tice

FULLERFORM MANUFACTURING CO., INC.

24 East Pioneer Street
Phoenix, Arizona

PRODUCTS: Concrete Ditch Lining Equipment; Irrigation Control Valves; Irrigation Ditch Checks; Permanent Irrigation Gates.

DISTRIBUTORS

Arizona	Casa Grande	Eddie Givens Ditching Co.
	Litchfield Park	Dan R. Fuller
	Mesa	Barney & Babcock
	" "	L.W. Penrod
	Phoenix	Agriculture Construction Engineering
	Safford	Wm. R. Hunter
	Tolleson	Gila Valley Concrete Co.
	Yuma	R. Fuller Co.
California	Avenal	James F. Blanton
	Bakersfield	Fullerform Concrete Ditch Lining Co.
	Chico	Roy D. Easton
	Daguerre	Butte Creek Rock Co.
	El Centro	Cool Water Ranch
	Los Banos	Chas. A. Bratton
	Woodland	Robal Ditch Construction Co.
Colorado	Denver	McWhin Concrete Ditch Liners
	Greeley	Accessory Supply Co.
	Rocky Ford	Chas. E. Willson & Co.
	Twin Falls	Valley Concrete Co.
Idaho	Tuscarora	Concrete Ditch Lining Service
Nevada	Artesia	Petan Co.-Y.P. Ranch
New Mexico	Deming	Concrete Ditch Liners Co.
	Klamath Falls	Robert S. Palmer, Inc.
Oregon	Vale	Concrete Products Co.
	Cedar City	Panhandle Trucking, Inc.
	Tremonton	Philip R. Congrove
Utah		Kenneth C. Clark
		Germer, Abbott & Waldron

FULLER MANUFACTURING CO.

Kalamazoo
Michigan

PRODUCTS: Transmissions.

Western District Branch (Warehousing for wholesale only)
California Oakland 641 East 10th Street

Branches and dealers of the truck builders who use Fuller transmissions as original equipment.

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

THE GALION ALLSTEEL BODY CO. 505 South Market Street Galion, Ohio

PRODUCTS: Hydraulic Hoists and Dump Bodies.

WESTERN REGIONAL MANAGER

Nebraska Omaha 55 Neptune Pl., Carter Lake Geo. J. Rockmann

DISTRIBUTORS

Arizona	Phoenix	Weich 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 Pentkoff
Oregon	Portland	3902 NE 30th Ave.	Robert Shears

DISTRIBUTORS

Alaska	Anchorage	Craig Taylor Equipment & Supply Co.
Arizona	Phoenix	Arizona Cedar Rapids Co.
	Tucson	F. Ronstadt Hardware Co.
California	Bakersfield	Brown-Bevis Industrial Equipment Co.
	Eureka	Howard-Cooper Corp. of California
	Five Points	Allied Equipment Co.
	Fresno	" " "
	Los Angeles	Brown-Bevis Industrial Equipment Co.
	Madera	Allied Equipment Co.
	Oakland	Bay Cities Equipment Co.
	Redding	Sullivan & Crove Equipment Co.
	Redding	Allied Equipment Co.
	(Reno)	Nevada Equipment Service Co.
	Riverside	Bremen-Dickerson Co., Inc.
	Sacramento	Sacramento Valley Tractor Co.
	Salinas	Farmers Mercantile Co.
	Watsonville	" " "
	Santa Rosa	Stevenson Equipment Co., Inc.
	Stockton	Orton's Equipment Co., Inc.
	Stratford	H.W. Moore Equipment Co.
Colorado	Denver	" " "
	Grand Junction	" " "
Montana	Billings	Industrial Equipment Co.
	Great Falls	Power Equipment Co.
	Kellispell	Treasure State Equipment Co.
	Missoula	" " "
Nevada	Las Vegas	Clark County Wholesale Mercantile Co.
	Reno	Nevada Equipment Co.
	(Salt Lake)	The Lang Co.
New Mexico	Albuquerque	J.D. Cogins Co.
	Farmington	" " "
	(El Paso)	Border Machinery Co.
Oregon	Albany	Howard-Cooper Corp.
	Central Point	" " "
	Coquille	" " "
	Eugene	" " "
	Portland	" " "
	Roseburg	" " "
	Seattle	" " "
	Pendleton	Pendleton Grain Growers, Inc.
Utah	Salt Lake City	The Lang Co.
Washington	Seattle	Howard-Cooper Corp.
Wyoming	Casper	Western Equipment Co.
	(Salt Lake)	The Lang Co.
	(Billings)	Industrial Equipment 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 & 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 Machinery 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	Kereml 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. Elliott

DISTRIBUTORS

Arizona	Kingman	Central Commercial Co.
	Phoenix	O.S. Stapley Co.
	"	D.W. Jacques & Co.
Tucson	"	Arizona Hardware Co.
California	Los Angeles	Compressor Service Co.
	"	Pneumatic Machinery Co.
	"	Republic Supply Co.
	Riverside	Johnson Tractor Co.
	San Diego	Gould Hardware & Machinery Co.
	San Francisco	George M. Philpott Co.
	Eureka	Rogers Machinery Co.
Colorado	Denver	Air Rentals, Inc.
	"	Mine & Smelter Supply Co.
	Grand Junction	Junction Bit & Tool Co.
Idaho	Boise	Spencer Supply Co.
	"	Starline Equipment Co.
	Pocatello	Flaherty Manufacturing Co.
	"	Paul Roberts
Montana	Billings	Greaf Northern Tool Co.
	Great Falls	Agricultural Equipment Co.
	Missoula	Sanderson Irrigation Sales
	"	Westmont Tractor Co.
Nevada	Ely	Halls Hardware Co.
	Las Vegas	Standard Wholesale Supply Co.
New Mexico	Albuquerque	R.L. Harrison Co.
	Vanadium	Mine Supply, Inc.
Oregon	Portland	George M. Philpott Co.
	"	R.W. Wade & Co.
	"	Rogers Machinery Co.
Utah	Monticello	Western Mine Supply
	Salt Lake City	Air Equipment Co.
	"	Boque Supply Co.
	"	Lang Co.
	"	Mine & Smelter Supply Co.
	Moab	George W. Manson
	"	Plateau Hardware, Inc.
	Springville	Utah Service Co.
Washington	Seattle	Modern Machinery Co.
	Spokane	"
Wyoming	Casper	D.W. Elliott

GARRISON MANUFACTURING CO. 1500 So. Santa Fe Ave. Los Angeles 21, Calif.

PRODUCTS: Hydraulic Steering Boosters and Special Hydraulic Equipment for Trucks, Truck Cranes, Graders and Tractors.

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; High Lift Hoists; Load-Packer Refuse Collection Bodies; National Lift Jumbo Hoists; Pick-Up Dump-O-Matic Hoists; Lift-O-Matic Tailgate Lifts.

FACTORY BRANCHES

California	Los Angeles	4515 S. Soto St.	A.F. Hoop, Mgr.
	Richmond	Bay Area Sales	Geo. F. Martin, Mgr.

DIVISION SALES OFFICE

California	Richmond	Division Manager	M.L. Shepard
	"	Div. Sales Mgr.	George Martin

DISTRIBUTORS

Arizona	Phoenix	Allison Steel Mfg. Co.
California	Bakersfield	California Truck & Ind. Equipment Co.
	Fresno	Buckstaff California Sales Co.
	Pomona	Win Ward Co.
	San Diego	Utility Trailer Sales Co.
Idaho	Boise	The Sawtooth Co.
Nevada	Reno	Sierra Machinery Co.
Oregon	Portland	Pierce Trailer & Equipment Co.
Utah	Salt Lake City	Trailmobile, Inc.
Washington	Seattle	Transport Trailer Co.
	Spokane	General Machinery Co.

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

GAR WOOD INDUSTRIES, INC.

Wayne
Michigan

PRODUCTS: Buckeye Ditchers; Hi-Way Wideners; Finegraders and Spreaders.

REGIONAL MANAGER

California Richmond Gar Wood Industries A.M.Guthrie

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	El Monte	Warnock-Bancroft Equipment Co.
	Oakland	Buran Equipment Co.
	Santa Clara	"
Colorado	Denver	Western Machinery Co.
Idaho	Boise	Southern Idaho Equipment Co.
	Idaho Falls	"
	Twin Falls	"
Montana	Billings	Seltz Machinery Co.
	Great Falls	"
Nevada	Elko	A-D Machinery Co.
New Mexico	Roswell	Smith Machinery Co.
Oregon	Eugene	Pape Brothers
	Portland	Cranner Machinery Co.
Utah	Salt Lake City	The Lang Co.
Washington	Spokane	Construction Equipment Co.
Wyoming	Casper	Studer Tractor & Equipment Co.

GAR WOOD INDUSTRIES, INC.

Wayne
Michigan

PRODUCTS: Gar Wood Shovels; Cranes and Truck Cranes.

REGIONAL MANAGER

California Richmond Gar Wood Ind., Inc. A.M.Guthrie

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	El Monte	Warnock-Bancroft Equipment Co.
	Oakland	Buran Equipment Co.
	Santa Clara	"
Colorado	Denver	Western Machinery Co.
Montana	Billings	Seltz Machinery Co.
	Great Falls	"
New Mexico	Roswell	Smith Machinery Co.
Oregon	Eugene	Pape Brothers
Washington	Seattle	Air-Mac, Inc. of Washington
Wyoming	Casper	Studer Tractor & Equipment Co.

GATES & SONS, INC.

80 South Galapago
Denver 23, Colorado

PRODUCTS: Gates Rod Type Concrete Form Ties; Gates 2x4 Type Concrete Form Ties; Gates Strap Type Concrete Form Ties; Gates Panel Forms.

FACTORY BRANCH

Washington Spokane E.3003 Courtland Ave. United Dist., Inc.

DISTRIBUTORS

Montana	Billings	Lohof Bros. Co.
New Mexico	Albuquerque	Albuquerque Gravel Products Co.
Oregon	Portland	Lybren Distributing Co.
Utah	Salt Lake City	Construction Specialties Co.
Washington	Seattle	Van Deal Distributors

GENERAL MACHINE & WELDING WORKS, INC.

1100 East Second Street
Pomona, California

PRODUCTS: Swivels; Blocks; Headache Balls; A-Frames; Hydraulic Towers; Structural Steel and Steel Fabrication.

FACTORY REPRESENTATIVES

California	Newport Beach	1010 Kinas Rd.	F.Perry Hopkins
	San Francisco	249 Vidal Dr.	Capt. James E. Over
Colorado	Denver	510 Marlon St.	Claire H. Dulin

DISTRIBUTORS

Arizona	Phoenix	Pratt-Gilbert Hardware Co.
California	Los Angeles	John A. Bachelor
	"	Calweld, Inc.
	"	Gerlinghouse, Fremont & Co.
	Sacramento	Capitol Machine & Welding
	San Diego	C.J. Hendry Co.
	San Francisco	A.B. Chance Co.
	San Gabriel	Valley Cities Supply Co.
	San Leandro	Republic Supply Co. & All Stores
	San Pedro	C.J. Hendry Co.
Colorado	Denver	Union Supply Co., Inc.
Montana	Butte	Hall-Perry Machinery Co.
	Great Falls	"
Nevada	Reno	Sierra Machinery Co.
Utah	Salt Lake City	National Equipment Co.
Washington	Seattle	Connie Creim Co.

GENERAL ROAD MACHINES, INC.

1305 North Main Street
Niles, Ohio

PRODUCTS: Spreaders; Finishing Machines; Longitudinal Float Machines; Spray Curing Machines; Joint Installers; Road Forms (steel); Curb and Gutter Forms.

DISTRIBUTORS

Arizona	Phoenix	Superior Equipment Co.
Washington	Seattle	Hulse Machinery Co., Inc.

GILSON BROTHERS CO.

Fredonia
Wisconsin

PRODUCTS: Concrete Mixers; Mortar & 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.

S. State Road
Galion, Ohio

PRODUCTS: Sno-Plows; Spreaders; Graders; Grader Blades; Pavers; Road Maintainers; Earth Movers; Road-Side Sprayers; Portable Scales.

GMC TRUCK & COACH DIVISION

General Motors Corporation
660 South Boulevard East
Pontiac 11, Michigan

PRODUCTS: GMC Trucks, Gasoline and Diesel.

DEALERS IN ALL PRINCIPAL CITIES

GOODALL RUBBER CO.

Whitehead Road
Trenton 4, New Jersey

PRODUCTS: Belting; Conveyor, Elevator, Transmission, "V"; Hose; Air, Water, Steam, Suction, Discharge, Concrete Placing, Grout; Clothing; Rubber and Oiled; Footwear; Boots, Shoe Pads.

FACTORY BRANCHES

California	Los Angeles	2939 E. 11th	Thomas Meyer
	San Francisco	308 - 5th	Robert Steinke
Colorado	Denver	1033 Santa Fe Dr.	H.L. Walker
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, Calif.

PRODUCTS: Tires and Tubes.

DISTRICT MANAGERS

California	Los Angeles	2944 E. 44th St.	W.S. Sellinger
	San Francisco	1950 Army St.	O.K. Lynn
Colorado	Denver	2500 W. 8th Ave.	D.J. Jankle
Utah	Salt Lake City	135 E. 1st South	J.W. Martin
Washington	Seattle	1 Hanford St.	C.E. Newman

ZONE MANAGERS - TRUCK & BUS TIRE SALES

California	Los Angeles	5400 E. Olympic	L.T. Greiner
	"	"	A.F. Noves
		Zone Truck Tire Representative	E.W. Swift

DISTRIBUTORS

B.F. Goodrich Company Stores and Distributors in all Principal Cities. Refer to classified section of Telephone Directory under "TIRES"

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

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

GOOD ROADS MACHINERY CORP.
Bridge Street
Minerva, Ohio

PRODUCTS: Snow Plows; Anoregate (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.
Idaho	Boise	Intermountain Equipment Co.
	(Salt Lake)	Lund Machinery Co.
Montana	Billings	Seltz Machinery Co.
	Helena	Montana Powder & 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.
	Spokane	Intermountain Equipment Co.

THE GORMAN-RUPP CO.
305 Bowman Street
Mansfield, Ohio

PRODUCTS: Pumps.

DISTRICT REPRESENTATIVES		
California	Palo Alto	110 Walter Hays Dr. Robert L.Nicolai
Colorado	(Kansas City)	6915 Linda Lane Wm.S.Miller
New Mexico	(Houston)	1475 Suebarnett Geo.W.Erbe

DISTRIBUTORS		
California	Fresno	Moore Equipment Service, Inc.
	Los Angeles	Herron, Rickard & McCone Co. of S.Calif.
	Oakland	Bay Cities Equipment, Inc.
	Redding	Moore Equipment Service, Inc.
	Sacramento	Bay Cities Equipment, Inc.
	Stockton	Moore Equipment Co.
Colorado	Denver	Farris-Moritz Equipment Co.
Montana	Billings	Western Construction Equipment Co.
	Missoula	"
Nevada	Reno	Nevada Equipment Service, Inc.
New Mexico	Albuquerque	The Harry Cornelius Co.
Oregon	Eugene	Western Equipment Co.
	Portland	"
Utah	Salt Lake City	Anderson Machinery Co.
Washington	Seattle	The Lang Co.
	"	Pacific Holst & Derrick Co.
	"	Northern Commercial Co.
	Spokane	Andrews Equipment Service of Wash., Inc.
	Wenatchee	Mid-State Equipment Co.
Wyoming	Casper	Casper Supply 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-Beris Industrial Equipment 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 Sahlborg Equipment Co.
Wyoming	Cheyenne	Wortham Machinery Co.

GRADALL DIVISION - WARNER & SWASEY CO.
5701 Carnegie Avenue
Cleveland 3, Ohio

PRODUCTS: Multi-Purpose Earthmoving and Construction Machine.

FIELD ENGINEER		
California	Los Angeles	3340 Leontis Blvd. R.Bechtel
DISTRIBUTORS		
Arizona	Phoenix	State Tractor & Equipment Co.
California	Los Angeles	Brown-Beris Industrial Equipment Co.
	San Francisco	Western Tractor Co.
Idaho	Boise	Engineering Sales Service Co.
Oregon	Portland	Columbia Equipment Co.
Montana	Billings	Western Construction Equipment Co.
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Seattle	Columbia Equipment Co.

GRIPHOIST, INC.
700 Polk Street
San Francisco 9, California

PRODUCTS: Tiffor Griphoist, a portable manually operated cable hoist featuring unlimited cable travel; Snatch Blocks; Wire Rope Slings; Positive Grip Aluminum Alloy Compression Sleeve.

DISTRIBUTORS		
Arizona	Phoenix	Arizona Welding Equipment Co.
	"	Patt-Gilbert Hardware Co.
	Tucson	Aveco Supply Co.
California	Alhambra	Frank Cox Equipment Co.
	Bakersfield	Crook Company
	"	San Joaquin Tractor Co.
	Berkeley	J.R.Feeney
	Chico	Jeffery Brothers
	Corcoran	Corcoran Machine Works
	El Monte	Sabin's Supply Co.
	Eureka	Warnock-Bancroft Equipment Co.
	"	Kramer Auto Supply Co.
	"	Riley Loading Supply Co.
	Fresno	Fresno Wire Rope & Rigging
	Guerrville	Robert D.White
	Hanford	Hanford Tractor & Equipment
	Long Beach	Shearn Sales Co.
	Los Angeles	John A.Batchelor
	"	Cable Distributors, Inc.
	"	Fornaciari Co.
	"	Rental Yard Supply Corp.
	"	Stanco Manufacturers & Sales, Inc.
	Marysville	Hust Bros., Inc.
	Merced	Shannon Tractor & Pump Co.
	Modesto	J.M.Equipment Co.
	Paramount	L.J.Price
	Placerville	Roberts' Saw Shop
	Redding	Paul Drascher Sales
	Rio Vista	Olivell Materials Co.
	Salinas	Livinston Bros. Tractor Co.
	San Diego	Hudson Equipment Co.
	"	Rent It Service Co.
	San Gabriel	Abernathy & Co.
	San Francisco	H.M.Armstrong Co.
	"	Bay Cities Marine & Industries Supply
	"	C.H.Bull Co.
	"	Welch B.Elliott Co.
	"	A.J.Glessner Co., Inc.
	"	Weeks-Howe-Emerson
	Stockton	Stockton Iron Works
	Watsonville	White Tractor & Equipment Co.
	Willow Creek	Willow Creek Logging Supply
	Wilmington	Atlas Rigging Shop
Colorado	Denver	Johnson Supply Co.
	"	Johnson-Tudor Co.
	"	S & M Supply Co., Inc.
Idaho	Grand Junction	Intermountain Equipment Co.
	Boise	Coeur d'Alene Hardware & Foundry Co.
	Wallace	A-D Machinery Co.
Nevada	Elko	Utah Crane & Rigging Co.
	Henderson	American Steel & Supply Co.
Oregon	Eugene	Redwoods Supply Co.
	Grants Pass	Nelson Equipment Co.
	Portland	Salem Steel & Supply Co.
	Salem	Gate Equipment Co.
Utah	Salt Lake City	J.T.Holland Co.
	"	H.E.Simi
Washington	Bellevue	Greenshields Industrial Supply
	Everett	Clyde Equipment Co.
	Seattle	Intermountain Equipment Co.
	Spokane	"

GUNDERSON-TAYLOR MACHINERY CO.
1237 Shoshone Street
Denver 4, Colorado

PRODUCTS: Triplex Tamers.

DISTRIBUTORS		
Any authorized dealer or distributor of air equipment.		
GUNNISON MANUFACTURING CO.		
201 Lynn Avenue Baraboo, Wisconsin		

PRODUCTS: Asphalt Distributors; Asphalt Supply Tanks; Maintenance Distributors; Water Sprinklers; Street Flushers.

DISTRIBUTORS		
Arizona	Phoenix	Arizona Cedar Rapids Co.
California	Los Angeles	R.T.Muirhead Co.
Colorado	Denver	Power Equipment Co.
Idaho	Idaho Falls	Southern Idaho Equipment Co.
Montana	Billings	Seltz Machinery Co., Inc.
Nevada	(Salt Lake)	The Leno Co.
New Mexico	Albuquerque	N.C.Pibble Co.
Utah	Salt Lake City	The Lang Co.
Washington	Seattle	Jack Sahlborg Equipment Co.
	Spokane	Construction Equipment Co.
Wyoming	(Billings)	Seltz Machinery Co., Inc.

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

GEORGE HAISS MANUFACTURING CO., INC.

Subsidiary of Pettibone Mulliken Corp.

350 Fifth Avenue
New York 1, New York

PRODUCTS: Bucket Loaders; Snow Loaders; Coal Loaders; Clamshell Buckets; Conveyors and Car Unloaders.

THE HANSON CLUTCH & MACHINERY CO.

Miami Street
Tiffin 15, Ohio

PRODUCTS: Shovels; Cranes; Back Hoist 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.
Utah	N. Salt Lake	Taylor Machinery Co.
Washington	Seattle	Reliance Equipment & Supply Co.

HARNISCHFEGER CORP.

4400 West National Avenue
Milwaukee 46, Wisconsin

PRODUCTS: Truck Cranes; Diesel Engines; Power Shovels; Soil Stabilizers; Electrically Operated Loaders; Welding Equipment; Overhead Cranes; Hoists; Prefabricated Homes; Electrical Equipment; Auto Parking Systems.

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)	Glenn 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	Gordon's Industrial (H)
"	"	Hopper Machine Works (H-WR)
Berkeley	"	Leader Welding & Equipment Co. (WR)
Compton	"	Industrial-Welding Supply Co. (WR)
Crescent City	"	Industrial Electric Service Co. (H)
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)
Hawthorne	"	Sonnet Supply Co. (H)
Long Beach	"	Long Beach Welders Supply Co. (WR)
"	"	H. I. Tullis (WR)
Los Angeles	"	Abco Welding Supplies (H-WR)
"	"	Gordon Duff, Inc. (WR)
"	"	P. George Pennington (WR)
"	"	Shaw Sales & Service Co. (WR-X)
"	"	Southern Steel & Supply Co. (H)
"	"	H. C. Witherspoon Co. (WR)
Oakland	"	Roll-Rite Corp. (H)
"	"	Ferguson & Blakemore Machinery Co.
Ontario	"	A & R Equipment Co. (WR)
Redding	"	Paul Drascher Sales (WR)
Sacramento	"	Cal-Oxygen Co. (WR)
"	"	Capitol Machine Works (H)
"	"	Sacramento Valley Tractor Co. (H)
Salinas	"	Farmers Mercantile Co. (X-WR)
"	"	Lacey Automotive Parts Co. (WR)
San Diego	"	Production Tools, Inc. (WR)
"	"	Southern Equipment & Supply Co. (X-WR)
San Francisco	"	California Tramrail Co. (H)
"	"	Federal Pipe & Supply Co. (WR)
"	"	General Conveyor, Inc. (H)
"	"	Ira G. Perlin Co. (H)
"	"	Jay Besore & Associates (WR)
"	"	Sullivan-Cassimus Co. (WR)
"	"	A. G. Pond Co. (WR)
San Jose	"	Middleton's Welding Supply (WR)
San Leandro	"	V. B. Anderson Co. (WR)
Santa Ana	"	Henson Equipment Co. (X)
Santa Maria	"	E. C. Kraft & Co. (WR)
Santa Rosa	"	Hickinbotham Bros., Ltd. (WR)
Stockton	"	"

Continued in next column

HARNISCHFEGER CORP. (Continued)

Colorado	Denver	General Welding Supply Co. (H-WR)
"	"	Liberty Trucks & Parts Co.
"	"	Lloyd's Railway Supplies (WR)
"	"	No. One Co.
"	"	The Winter-Weiss Co. (WR)
"	Fort Collins	Forney Manufacturing Co. (WR)
"	Pueblo	Motor Accessory & Parts Co. (WR)
Idaho	Boise	Starline Equipment Co. (X)
"	"	Western Equipment Co. (WR)
"	Lewiston	Erb Hardware Co. (WR)
"	Pocatello	Western Machinery Co. (H)
Montana	Great Falls	Seltz Machinery Co. (X)
"	Helena	Calid Engineering Works (WR)
"	Kalispell	Treasure State Equipment Co. (X-WR)
Nevada	Reno	Pioneer Equipment Co., Inc. (X)
New Mexico	Albuquerque	Contractors Equipment & Supply Co. (WR)
"	"	Leonard Motor Co. (X-WR)
"	Eugene	American Steel & Supply Co. (H-WR)
"	Klamath Falls	Moty & Van Dyke (WR)
"	Portland	Eliff Sales (WR)
"	"	Industrial Specialties Co. (WR)
"	"	Loggers & Contractors Machinery Co. (X-WR)
"	"	Portland Machinery Co. (H)
"	Roseburg	Industrial Electric Service Co. (H)
Utah	Hurricane	Scholz Products Co. (WR)
"	Ogden	C & C Welding Supply Co. (WR)
"	Salt Lake City	Koppel & Love (WR)
"	"	Western Machinery Co. (X-H)
Washington	Aberdeen	Industrial Electric Service Co. (H-WR)
"	Bellingham	Ekdehl & Seppala, Inc. (WR)
"	Ellensburg	Frank Hagan & Co. (WR)
"	Everett	Industrial Electric Service Co. (H)
"	Forks	Ulin Maintenance & Supply Co. (WR)
"	Pasco	Randolph & Taylor Pibg. & Htg. (WR)
"	Seattle	Accogon Cutting Gas Co. (WR)
"	"	Air Mac, Inc. of Washington (H)
"	Spokane	Construction Equipment Co. (X)
"	"	Grange Cooperative Wholesale (WR)
"	"	Washington Machinery & Supply Co. (H)
"	Tacoma	Mirald Welding Supplies, Inc. (WR)
"	Yakima	Arthur Krum Co. (WR)

HAUCK MANUFACTURING CO.

124 Tenth Street
Brooklyn 34, 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 BRANCHES

California	Los Angeles	254 S. Broadway	Alvin M. Cunningham, Mgr.
	San Francisco	383 Brannan St.	H. B. Cleveland, Mgr.

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 Flagmen Jackets and Vests; Delineators for Detours; Special Traffic Guide Signs; Flashing Lights; etc.

FACTORY BRANCHES

California	LaCrescente	3755 Montrose Ave.	Jack Miller
Colorado	Denver	1018 Lawrence St.	L. S. Reed

DISTRIBUTORS

California	San Francisco	Edward R. Bacon Co.
Colorado	Denver	L. S. Reed & Co.
Nevada	Reno	Pioneer Equipment Co.
Oregon	Portland	Sierra Machinery Co.
		Traffic Safety Supply Co.

B. M. HEEDE, INC.

30 - 37th Avenue
Long Island City, 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.

Good distributors seek equipment lines buyers want — Consistent advertising in WESTERN CONSTRUCTION Builds buyer acceptance and demand!

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

THE HEIL CO.
 3000 West Montana
 Milwaukee 1, Wisconsin

 PRODUCTS: Truck Bodies; Hydraulic Hoists; Hydraulic Telloates;
 Refuse Collection Units.

REGIONAL MANAGERS

California	Los Angeles	2999 W.6th St.	Len Anderson
Colorado	Denver	505 Colorado Blvd.	John Zimmerman
Washington	Seattle	708 5th Ave. So.	Claude Conrad

DISTRIBUTORS

Alaska	(Seattle)	Glen Carrington Co.
Arizona	Phoenix	Utility Trailer Sales Co.
California	Los Angeles	Transportation Equipment Co.
	Modesto	Heil Equipment of No. California
	Sacramento	" " " "
	San Francisco	" " " "
Montana	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.

HELTZEL STEEL FORM & IRON CO.

 Warren
 Ohio

 PRODUCTS: Portable Aggregate Batch Plants; Portable Bulk Cement
 Plants; Stationary Batching Plants for the Concrete
 Products; Transit-Mix and Central-Mix Industries;
 Bulk Cement Batching Plants; Concrete Buckets; Road
 and Airport Forms; Curb, Curb and Gutter, Sidewalk
 and Special Forms; Storage Bins; Bulk Cement Elevators;
 Truck Mixer Batches; Combination Batches; Universal
 Batches; Dual Aggregate Batches; Dustless Cement
 Batches; Dual Cement Batches.

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	Los Angeles	Garlinghouse-Fremont & Co.
	San Francisco	Coast Equipment Co.
Colorado	Denver	Ray Corson Machinery Co.
Idaho	Boise	Columbia Equipment Co.
Montana	Butte	Hall-Perry Machinery Co.
	Great Falls	" " " "
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Nevada	(Los Angeles)	Garlinghouse-Fremont & 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	Kereml Tractor & Equipment Co.

HENDRIX MANUFACTURING CO.

 Jenkins Street - P.O. Box 31
 Mansfield, Louisiana

PRODUCTS: Dragline Buckets.

Write us for name of your nearest dealer.

HENSLEY EQUIPMENT CO., INC.

 800 Peralta Avenue
 San Leandro, California

 PRODUCTS: Ripping 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	Phoenix	Western Machinery Co.
California	Bakersfield	Crook Co.
	Chico	Chico Auto Parts
	Colusa	Emerson-Braden Co.
	Eureka	McGarahan Supply Co.
	Fresno	Contractors Equipment & Supply Co.
	Marysville	Hust Bros.
	Oroville	Oroville Auto Parts
	Redding	Lowry Equipment Co.
	Sacramento	Western Equipment & Supply Co.
	San Luis Obispo	Farmers Hardware & Equipment Co.
	Santa Rosa	Doug-Lynn Mfg. Machinery 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.
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Eugene	Western Equipment Co.
	Medford	Cal-Ore Machinery Co.
	Portland	Western Equipment Co.
	Salt Lake City	J.T. Holland Co.
Utah	Seattle	Pacific Hoist & Derrick Co.
Washington	Spokane	Western Machinery Co.
Wyoming	Cheyenne	Kereml Tractor & Equipment Co.

HERCULES MOTORS CORP.

 101 Eleventh Street Southeast
 Canton, Ohio

PRODUCTS: Internal Combustion Engine and Power Units.

FACTORY BRANCH

California	Los Angeles	2336 S. Garfield Ave.	W.D. Brumback
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DISTRIBUTORS

Arizona	Phoenix	Schuler & James, Inc.
California	Bakersfield	Hydro Precision Bearing 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 Machinery 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 the major cities and towns throughout
 the West.

HERCULES STEEL PRODUCTS CORP.

 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	Metlco 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.
 1824 Third Avenue
 Moline, Illinois

PRODUCTS: Portable Space Heaters.

DISTRIBUTORS

Alaska	Anchorage	Northern Commercial Co.
	Fairbanks	" " " "
	Juneau	" " " "
	Ketchikan	" " " "
	Nome	" " " "
California	Fresno	Edward R. Bacon Co.
	Oakland	" " " "
	Sacramento	" " " "
	San Francisco	" " " "
Idaho	Boise	Intermountain Equipment Co.
	Idaho Falls	Arnold Machinery Co.
	Pocatello	Intermountain Equipment Co.
Oregon	Eugene	Loggers & Contractors Machinery Co.
	Portland	" " " "
Utah	Salt Lake City	Arnold Machinery Co.
Washington	Seattle	A.H. Cox & Co.
	Spokane	Western Machinery Co.
	Tacoma	A.H. Cox & Co.
Wyoming	Casper	Studer Tractor & Equipment Co.

HETHERINGTON & BERNER, INC.

 701 Kentucky Avenue
 Indianapolis 7, Indiana

 PRODUCTS: Bituminous Mixing Plants; Dredging Equipment; Moto
 Pavers; Moto Patches; 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 Powder & 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; Drive Equipment; Hose of all types; Industrial Rubber Products; Engineering of Materials Handling Systems.

REPRESENTATIVES

California Los Angeles 2604 S. Main Ave. G.V. Moulou, Rep. Mar.
 " " " " " " " " M.D. Austin, Dist. Mar.

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 Tractor Type; Truck Mounted Drag Chain and Spinner Type, Models E & W; Aaregate Spreader, Tractor Driven, Force Feed, Towed Type, Model R; Model AS Towed Type Bituminous, Concrete and Aaregate Spreader; Bulk Cement Bodies, Self-unloading.

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	Los Angeles	Brown-Beverly Industrial Equipment Co.
	San Francisco	Standard Machinery Co.
Colorado	Denver	H.W. Moore Equipment Co.
Idaho	Boise	Feenoughy Machinery Co.
	(Salt Lake)	Rocky Mountain Machinery Co.
Montana	Billings	H-C-L Equipment Co.
Nevada	Reno	Sierra Machinery Co.
Oregon	Portland	Feenoughy Machinery Co.
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Spokane	Feenoughy Machinery Co.
Wyoming	Cheyenne	Wortham Machinery Co.

HIGHWAY TRAILER CO.
 405 East Fulton
 Edgerton, Wisconsin

PRODUCTS: Utility Truck Bodies; Earth Boring Machines; Pole and Cable Reel Trailers; Winches and Power Take-Offs.

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

H & L TOOTH CO.
 1540 South 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	Sterline 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	Howard-Cooper Corp.
Utah	Salt Lake City	Heiner Equipment Co.
Washington	Seattle	Howard-Cooper Corp.
	Spokane	Modern Machinery Co.

HOBART BROTHERS
 Hobart Square
 Troy, Ohio

PRODUCTS: Electric or Gasoline Driven Arc Welders; Power Units; Combination Units; Welding Accessories & Electrodes.

DISTRIBUTORS

Arizona	Phoenix	Dye Oxygen Co.
		Phoenix Welding Supply Co.
California	Tucson	Dye Oxygen Co.
	Arcata	Loosers & Mill Supply Co.
	Bakersfield	Bakersfield Welding Supply
	Emeryville	Balaam Brothers
	Fresno	S.J. Stoler
	King City	Shields Tractor Co.
	Los Angeles	Anderson Equipment Co.
	"	Hobart Welder Sales & Service

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HOBART BROTHERS (Continued)

California	Pleasant Hills	Myron A. King
	San Diego	Balliey Equipment Co.
	"	San Diego Welders Supply Co.
	San Jose	Pacific Hardware & Steel Co., Inc.
	San Francisco	McCormick-Morgan Co.
	"	J.R. Zekis
	Salt Lake City	Farmers Hardware & Equipment Co.
	Santa Ana	V.B. Anderson Co.
	Santa Maria	Coast Welding Supply
	Ukiah	Holz Co.
	Whittier	Hobart Welder Sales & Service
Colorado	Denver	Acetylene Service Co.
	"	General Welding Supply Co.
	Grand Junction	Williams Electric Co.
	Pueblo	J.F. Damann Supply Co.
Idaho	Boise	Intermountain Equipment Co.
Montana	Billings	General Distributing Co.
	Great Falls	" " " "
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	R.L. Harrison Co., Inc.
Oregon	Portland	Welders Supply Co.
Utah	Salt Lake City	Whitmore Oxygen Co.
Washington	Seattle	Rock & Wright
	"	Yukon Equipment, Inc.
	Spokane	Intermountain Equipment Co.
	"	Spokane Welder Supply Co.

HOBBS MANUFACTURING CO.
 609 North Main
 Fort Worth 1, Texas

PRODUCTS: Low Bed Trailers; Self Loading Float Trailers; Hydraulic Dump Bodies; Cable Dump Trailers; Winch & 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.
New Mexico	Albuquerque	D & H Sales Co.
Oregon	Portland	Utility Trailer & Equipment Co., Inc.
Utah	Salt Lake City	Lang Company
	" " "	Utility Trailer Sales of Utah, Inc.
Washington	Seattle	Transport Trailer & Equipment Co.
	Spokane	Alloy Manufacturing Co.
Wyoming	Casper	Century White Truck Co.

HOMELITE DIVISION
 Textron American, Inc.
 Riverdale Avenue
 Port Chester, New York

PRODUCTS: Gasoline-Engine-Driven Chain Saws; Generators; Self-Priming Pumps; Blowers; Electric-Driven Pumps; Floodlights.

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 Milwauke	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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THE FRANK G. HOUGH CO.
 889 Sunnyside Avenue
 Libertyville, Illinois

PRODUCTS: "PAYLOADER" Tractor-Shovels; "PAYLOADER" Tractors.

DISTRICT REPRESENTATIVES

California	Hillsborough	1485 Lake View Dr.	Don Ross
	Inglewood	10509 Third Ave.	Merle M. Fate
Colorado	Aurora	1000 Kentin St.	David Hunsaker

DISTRIBUTORS

Alaska	Fairbanks	Glenn Carrington & Co.
Arizona	Phoenix	State Tractor & Equipment Co.
	Tucson	F. Ronstadt Hardware Co.
California	Bakersfield	Brown-Beverly Industrial Equipment Co.

Continued on next page

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

THE FRANK G. HOUGH CO. (Continued)

California	Escondido	Southern Equipment & Supply Co.
	Eureka	Howard-Cooper Corp. of California
	Five Points	Allied Equipment Co.
	Fresno	"
	Los Angeles	Brown-Beris Industrial Equipment Co.
	Madera	Allied Equipment Co.
	Oakland	Bay Cities Equipment, Inc.
	Redding	Sullivan & Grove Equipment Co.
	Reedley	Allied Equipment Co.
	Riverside	Bramen-Dickerson, Inc.
	Sacramento	Sacramento Valley Tractor Co.
	San Diego	Southern Equipment & Supply Co.
	San Jose	Valley Equipment Co.
	Santa Maria	Hanson Equipment Co.
	Stratford	Orton's Equipment Co., Inc.
Colorado	Denver	H.W. Moore Equipment Co.
	Grand Junction	"
Idaho	Boise	Intermountain Equipment Co.
	Pocatello	"
Montana	Billings	Industrial Equipment Co.
	Great Falls	Pover Equipment Co.
	Kalispell	Treasure State Equipment Co.
Nevada	Las Vegas	Clark Co. Wholesale Mercantile Co., Inc.
	Reno	Nevada Equipment Service Co.
New Mexico	Albuquerque	J.D. Coggins Co.
Oregon	Albany	Howard-Cooper Corp.
	Central Point	"
	Coquille	"
	Eugene	"
	Pendleton	Pendleton Grain Growers
	Portland	Howard-Cooper Corp.
	Roseburg	"
Utah	Salt Lake City	The Leng Co., Inc.
Washington	Seattle	Glenn Carrington & Co.
	"	Howard-Cooper Corp.
	"	Intermountain Equipment Co.
Wyoming	Spokane	Kermit Tractor & Equipment Co.
	Casper	"
	Cheyenne	"

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; Buckets; Front End Loaders; Gates; Gravel Plants; Hoppers; Levellers; Loadout Bins; Rock & Gravel Equipment; Storage Bins; Tanks; Washing Plants; Weighing Batchers.

THE HUBBARD CO.

4809 E. 49th Street
Los Angeles 58, California

PRODUCTS: Concrete Curing Compounds; Expansion Joint Materials; Joint Sealing Compounds; Sealing Compounds; Waterproofing Materials; Moisture Vapor Barriers; Caulking Compounds; Cold Roofing Mastics.

FACTORY BRANCHES

California	La Jolla	2360 Calle Del Oro	P.G. Webster, Mgr.
	San Francisco	2166 Market St.	V.W. Koch, Mgr.

DISTRIBUTORS

California	Sacramento	Slakey Bros.
	San Diego	Nelson-Sloan
Nevada	Las Vegas	Cerro

HUBER-WARCO CO.

202 North Greenwood Street
Marion, Ohio

PRODUCTS: Road Rollers; Motor Graders; Maintainers.

DISTRICT REPRESENTATIVE

California	Pleasant Hill	436 Minton Ct.	Jack McCaffrey
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DISTRIBUTORS

Alaska	(Seattle)	Western Tractor & Equipment Co.
California	Los Angeles	Santa Fe Equipment Co.
	Redding	Paul Droscher Sales
	San Francisco	Western Tractor Co.
Colorado	Denver	Graham Road Equipment Co.
Idaho	Boise	The Sawtooth Co.
Montana	Helena	Calrd Engineering Works
	Billings	"
Nevada	Reno	Jenkins & Albright
New Mexico	Albuquerque	Leonard Motor Co.
Oregon	Portland	Nelson Equipment Co.
Utah	Salt Lake City	Foulger Equipment Co.
Washington	Seattle	Toten Equipment Co.
	Spokane	"

Good distributors—backed with advertising support in WC—are the key to successful selling in the West!

HUGHES-KEENAN CORP.

Delaware
Ohio

PRODUCTS: Cranes.

DISTRIBUTORS

Arizona	(Los Angeles)	James P. Kinney Co.
California	Los Angeles	"
	"	"
Colorado	Denver	Casey-Metcalf Machinery Co.
Montana	Billings	Joe Coursey Equipment Co., Inc.
Nevada	(Los Angeles)	Industrial Equipment Co.
	(Salt Lake)	James P. Kinney Co.
	"	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.
Idaho	(Salt Lake)	Intermountain Ford Tractor Sales Co.
Oregon	Portland	Independent Distributors
Utah	Salt Lake City	Intermountain Ford Tractor Sales Co.
Washington	(Portland)	Independent Distributors
Wyoming	(Denver)	Universal Tractor Co.

THE HYSTER CO.

2982 Northeast Clackamas
Portland, Oregon

PRODUCTS: Winches; Logging Arches; Construction Equipment; Industrial Lift Trucks; Straddle Trucks; Mobile Cranes; Horizontal Transport Trucks.

DEALERS

TRACTOR EQUIPMENT

Arizona	Phoenix	Arizona Machinery Co.
	Branches:	Casa Grande, Coolidge, Flagstaff, Mesa, Tucson
	Yuma	Braden Machinery Co.
	Branches:	Wellton
California	Blythe	Honnen Machinery Co.
	Chico	Sierra Tractor & Equipment Co.
	Branches:	Gridley, Red Bluff and Redding
	Colusa	I.G. Zumwalt Co.
	Branches:	Willows
	El Centro	Faure Tractor & Equipment Co.
	Branches:	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
	Branches:	Robbins, Roseville
	Merced	Halton Tractor Co.
	Branches:	Chowchilla, Los Banos
	Modesto	Valley Tractor & Equipment Co.
	Branches:	Turlock, Soledad
	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.
	Branches:	Escondido
	San Jose	Ditz Bros.
	Branches:	Gilroy, 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	Creter Lake Machinery Co.
	Visalia	Trener Equipment Co.
	Branches:	Delano, Porterville, Tulare
Idaho	Boise	Bunting Tractor Co., Inc.
	Branches:	Burley, Twin Falls, Fairfield
	Idaho Falls	Parkinson Tractor Co.
	Branches:	American Falls, Reburg
	Lewiston	Nez Perce Tractor & Equipment Co.
	Preston	Peterson Tractor Service

Continued on next page

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

THE HYSTER CO. (Continued)

Montana	Missoula	Westmont Tractor & Equipment Co.
	Branch:	Kallispell
Nevada	Las Vegas	James Cashman Co.
	Reno	Sanford Tractor & Equipment Co.
	Branch:	Elko
Oregon	Klamath Falls	Crater Lake Machinery Co.
	Branches:	Medford, Redmond
	LaGrande	Inland Machinery Co.
	Branch:	Enterprise
	Ontario	Bunting Tractor Co.
	Pendleton	Empire Machinery Co.
	Branches:	Arlington, Athens, Heppner
	Portland	Interstate Tractor & Equipment Co.
	Branches:	Astoria, Eugene, Coquille, Roseburg, Salem, The Dalles
Utah	Logan	Peterson Tractor Service
	Branch:	Tremonton
	Salt Lake City	Wheeler-Kershaw Co.
	Branch:	Moab
Washington	Longview	Interstate Tractor & Equipment Co.
	Branches:	Collins, Mackay
	Seattle	Mt. Vernon, Port Angeles
	Branches:	Northern Commercial Co.
	Spokane	Byrne-Ferris Machinery Co.
	Branch:	St. John
	Tacoma	Murphy-Campbell Co.
	Walla Walla	Braden Tractor & Equipment Co.
	Branch:	Dayton
	Wenatchee	Columbia Tractor Co. of Wenatchee
	Branches:	Okanogan, Ephrata
	Yakima	Webb Tractor & Equipment Co.
	Branches:	Connell, Ellensburg, Toppenish

INGERSOLL-RAND CO.

11 Broadway
New York 4, New York

PRODUCTS: Backfill Tamper; Blowers; Clay Diggers; Clay Spades; Compactors; 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.

WESTERN BRANCH OFFICES

California	Los Angeles	1460 E. 4th St.	W.J. Heinz
	San Francisco	350 Brennan St.	W.C. Collier
Colorado	Denver	1541 Blake St.	A.A. Holland
Idaho	(Salt Lake)	144 SW Temple	R.W. Lawson
Montana	Butte	845 S. Montana	R.L. Olund
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.
	Bishop	G & M Hardware & 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. Thomas
	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.
Nevada	Reno	Nevada Equipment Service Co.
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Oregon	Portland	Loggers & Contractors Machinery Co.
Utah	Salt Lake City	Cate Equipment Co.
Washington	Seattle	Glenn Carrington Co.
	"	Pacific Hoist & Derrick Co.
	"	Intermountain Equipment Co.
Wyoming	Spokane	Woming Automotive Co.
	Casper	"

Good distributors seek equipment lines buyers want — Consistent advertising in WESTERN CONSTRUCTION Builds buyer acceptance and demand!

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

INSLEY MANUFACTURING CORP.
P.O. Box 167 - 801 North Olney Street
Indianapolis 6, Indiana

PRODUCTS: Power Shovels; Hoes; Cranes; Clamshell Cranes and Draglines; Rubber & 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 Maxt Corp. J. Ray Elliott, Mar.

FACTORY SALES REPRESENTATIVE

California Los Angeles 3278 Wilshire Lee R. Smith

DISTRIBUTORS

Arizona	Phoenix	Shriver Machinery Co.
California	Redding	Sullivan & Grove Equipment Co.
	San Francisco	Western Tractor Co.
	Stockton	Graco
	Woodland	"
Colorado	Denver	King & East Machinery Corp.
	Grand Junction	S & M Supply Co.
Montana	Helena	Calder Engineering Works
Nevada	Las Vegas	Inland Supply Co.
New Mexico	Albuquerque	M & F Equipment Co.
	(El Paso)	Equipment Supply Co.
Oregon	Portland	Wood Tractor Co.
Washington	Seattle	Washington Machinery Co.

INTERNATIONAL MANUFACTURING CO.

675 Rio Grande Avenue
Littleton, Colorado

PRODUCTS: Crawler Tractors; Wheel Tractors; Motor Trucks; Power Units; Diesel and Gasoline Engines; Bulldozer Blades; Bulldozers; Scrapers; Pavers.

DISTRIBUTORS

Alaska	Fairbanks	Glenn Carrington & Co.
	Nome	"
Arizona	Phoenix	State Tractor & Equipment Co.
	Tucson	F. Ronstadt Hardware Co.
	Yuma	Yuma Equipment Co.
California	Bakersfield	Kern County Equipment Co., Inc.
	El Centro	Purdy-Holquist Co.
	Eureka	Howard-Cooper Corp.
	Five Points	Allied Equipment Co.
	Fresno	"
	Los Angeles	Brown-Beverly Industrial Equipment Co.
	Madera	Allied Equipment Co.
	Oakland	Bay Cities Equipment, Inc.
	Oxnard	L.G. Mulhardt Equipment Co.
	Redding	Sullivan & Grove Equipment Co.
	Redley	Allied Equipment Co.
	Riverside	Braman-Dickerson Co.
	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.
	Santa Rosa	Stevenson Equipment Co.
	South Gate	Palmer Engine Co.
	Stockton	Delta Tractor Co.
	Stratford	Orton Equipment Co.
	Watsonville	Farmers Mercantile Co.
	Woodland	Delta Tractor Co.
Colorado	Denver	H.W. Moore Equipment Co.
	Grand Junction	"
Idaho	Boise	Intermountain Equipment Co.
	Pocatello	"
Montana	Billings	Industrial Equipment Co.
	Great Falls	Power Equipment Co.
	Helena	Treasure State Equipment Co.
	Missoula	"
Nevada	Las Vegas	Clark County Wholesale Mercantile Co.
	Reno	Nevada Equipment Service Co.
Oregon	Albany	Howard-Cooper Corp.
	Central Point	"
	Coquille	"
	Eugene	"
	Pendleton	Pendleton Grain Grovers, Inc.
	Portland	Howard-Cooper Corp.
	Roseburg	"
Utah	Salt Lake City	The Lang Co.
Washington	Seattle	Glenn Carrington & Co.
	"	Howard-Cooper Corp.
	"	Intermountain Equipment Co.
Wyoming	Spokane	Kernel Tractor & Equipment Co.
	Cheyenne	"

Pre-selling of equipment buyers and users is the key to getting good distributors—Good distributors want popular lines, help them want your line!

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

INTERNATIONAL MANUFACTURING CO.

675 Rio Grande Avenue
Littleton, Colorado

PRODUCTS: Chinook Wind LP Gas Fired Portable Heaters; Chinook Wind Ventilator and Heater Utility Type; Chinook Wind All Purpose Torch.

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Richmond	Bay Equipment Co.
	Glendale	Palmer Scaffolding Co.
Colorado	Denver	King & East Machinery Co.
		Wholesale Flooring, Inc.
Idaho	Boise	Western Equipment Co.
Montana	Great Falls	Hall-Perry Co.
	Billings	" " "
	Butte	" " "
New Mexico	Albuquerque	Leonard Motor Co.
	Farmington	" " "
Utah	Salt Lake City	Western Machinery Co.
	" " "	C.H. Jones Equipment Co.
	" " "	Hansen Lime & Stucco Co.
Washington	Spokane	Contractors Equipment Co.
Wyoming	Casper	Kereml Tractor & Equipment Co.
	Cheyenne	" " "

IOWA MANUFACTURING CO.

916 16th Street Northeast
Cedar Rapids, Iowa

PRODUCTS: Rock, Gravel and Asphalt Plants; Soil Compaction Units; Coal Machinery; Washing Plants; Conveyors; Motorized Head Pulleys; Screens; Blos; Crushers; Hammermills; Impact Breakers; Feeders and Stationary Rock and Gravel Plants.

DISTRICT REPRESENTATIVES

California	San Francisco	100 Font Blvd.	O.E. "Bud" Whitney
Texas	Dallas	6415 W.NE Highway	Ken V. Turner

DISTRIBUTORS

Arizona	Phoenix	Arizona Cedar Rapids Co.
California	Los Angeles	Brown-Bevis Industrial Equipment Co.
	Oakland	Bay Cities Equipment Co.
Colorado	Denver	H.W. Moore Equipment Co.
Idaho	Boise	Intermountain Equipment Co.
	Pocatello	" " "
Montana	Billings	Seltz Machinery Co.
	Great Falls	" " "
	Kalispell	Mountain Tractor Co.
	Missoula	" " "
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	R.L. Harrison Co.
Oregon	Portland	P.L. Crooks & Co., Inc.
Utah	Salt Lake City	Kimball Equipment Co.
Washington	Ephrata	Intermountain Equipment Co.
	Seattle	Jack Sahlborg Equipment Co.
	Spokane	Intermountain Equipment Co.
Wyoming	Cheyenne	Wortham Machinery Co.

IRVINGTON FORM & TANK CORP.

20 Vesey Street
New York 7, N.Y.

PRODUCTS: Atlas Compo Walls Forms (Plywood & Steel); Atlas Round Bridge Pier Forms; Atlas Speed Forms (All Steel); All types of special forms.

JACKSON VIBRATORS, INC.

Ludington
Michigan

PRODUCTS: Vibrators (Concrete, Paving and for moving materials from bins, hoppers and chutes); Portable Gas-Electric Power Plants; Soil Compactors.

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 Falls	" " "
Idaho	Billings	Hall-Perry Machinery Co.
Montana	Butte	" " "
	Great Falls	" " "
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Portland	Loggers & Contractors Machinery Co.
Utah	Salt Lake City	Western Machinery Co.
Washington	Seattle	A.H. Cox & Co.
	Spokane	Western Machinery Co.
Wyoming	Cheyenne	Wilson Equipment & Supply Co.

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

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	" " "
	Phoenix	" " "
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.
New Mexico	Albuquerque	J.D. Coagins 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.

JETCO, INC.

1100 Westminster Ave.
Alhambra, California

PRODUCTS: Trencher Parts; Jiffy Teeth, Buckets, Side Cutters and Adapters; Digging Wheel Rims.

DISTRIBUTORS

Arizona	Phoenix	Shriver Machinery Co.
California	Arlington	West Tractor Sales
	Ontario	Glen B. Dornier
	San Bernardino	Garner Implement Co.
	San Francisco	Standard Machinery Co.
	Van Nuys	So-Cal Equipment & Supply Co.
Colorado	Denver	Power Equipment Co.
Idaho	Boise	Engineering Sales Service, Inc.
Nevada	Reno	General Equipment Co.
	Las Vegas	Blystone Equipment Co.
New Mexico	Albuquerque	J.D. Coagins Co.
Montana	Helena	Montana Power & Equipment Co.
Utah	Salt Lake City	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 Machinery 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 Crell Co.
	Spokane	Andrews Equipment Service, Inc.
Wyoming	Casper	Studer Tractor & Equipment Co.

JONES & LAUGHLIN STEEL CORP.

3 Gateway Center
Pittsburgh, Pennsylvania

PRODUCTS: Steel & Steel Products; Wire Rope; Tubular Products; Junior Beams and Junior Channels.

DISTRICT SALES MANAGERS

California	Los Angeles	R.G. Shearer	Dist. Sales Manager
	San Francisco	J.H. Tice	" " "
Colorado	Denver	E.A. Toothaker	Res. Mgr. of Sales

Distributors want to sell popular equipment lines—Make your line popular with consistent advertising in WC!

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

EARLE M. JORGENSEN CO.
 10650 South Alameda Street
 Los Angeles 54, California

PRODUCTS: "Goldedge" Blades (Cutting Edges for Earth-Moving Equipment).

FACTORY BRANCHES

California	Los Angeles	District Mgr.	C. Schriber
	Oakland	"	P.C. Childs

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.H. Emrick
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 Francisco	Coast Equipment Co.
	Boise	Carl R. Burt Equipment Co.
Nevada	Reno	Sierra Machinery Co., Inc.
Oregon	Portland	Clyde Equipment Co.
Utah	Salt Lake City	Foulger Equipment Co.
Washington	Seattle	Clyde Equipment Co.
	Spokane	American Machine Co.

KENWORTH MOTOR TRUCK CO.
 8801 East Marginal Way
 Seattle, Washington

PRODUCTS: Heavy Duty Construction Trucks - on and off highway.

DISTRIBUTORS

Arizona	Phoenix	J.T. Jenkins Co.
California	Los Angeles	" " " "
	San Francisco	" " " "
Colorado	Denver	Colorado Kenworth Corp.
	Pocatello	Transport Equipment Co.
Montana	Billings	Custom Tire & Motor Power Equipment 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.
 582 Market Street
 San Francisco 4, California

PRODUCTS: Steam Cleaners; Flame Throwers; Weed Burners; Portable Heaters - 2000 degrees.

REPRESENTATIVE

California	Redwood City	2701 El Camino Real	Horam Slocum
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DISTRIBUTORS - STEAM CLEANERS

California	Palo Alto	Harry G. Wilson Sales Co.
	Sacramento	Sacramento Wheel Service
Colorado	Denver	Johnson-Tudor Co.
New Mexico	Albuquerque	Automotive Equipment & Repair Co.
Utah	Salt Lake City	Steam Engineers & Supply Co.

The above are distributors of ECONOMY Steam Cleaners. Ker-O-Kil Weed Burners and Flame Throwers are sold to all of the principal hardware jobbers in the Pacific Coast States.

JOS. F. KIESLER CO.
 932 West 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	McGoy Co.
	"	Western Machinery Co.
Idaho	Boise	Feenoughy Machinery Co.
Montana	Billings	Hall-Perry Machinery Co.
	Butte	" " " "
	Great Falls	" " " "
Oregon	Portland	Feenoughy Machinery Co.
Utah	Salt Lake City	Western Machinery Co.
Washington	Seattle	Feenoughy Machinery Co.
	Spokane	" " " "

KLAUER MANUFACTURING CO.
 Dubuque
 Iowa

PRODUCTS: Snow Plows; Sheet Metal Building Materials.

KOEHRING COMPANY
 3026 W. Concordia Ave.
 Milwaukee 16, Wisconsin

PRODUCTS: Excavators; Crawler and Rubber Tired Mounted Cranes, Shovels, Hoes, Clamshells, Dragages; Construction Mixers, Tilt and Non-tilt; Pavers, Crawler and Rubber Tired Mounted; Concrete Finishers; Mud-Jacks; Side-walk, Street, Highway and Railroad; Dumpers; Railroad Cranes.

DISTRIBUTORS

Arizona	Phoenix	Neil B. McGinnis Co.
California	Bakersfield	San Joaquin Tractor Co.
	Los Angeles	Haron, 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 Boulevard
 Stockton 4, 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

California	Oakland	Ferguson-Bleakmore Equipment Co.
Colorado	Denver	McKelvy Machinery Co.
Idaho	Boise	Engineering Sales & Service, Inc.
Montana	Billings	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 Works

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	(Seattle)	Andrews Equip. Service of Wash., Inc.
Arizona	Phoenix	Equipment Sales Co.
	"	The O.S. Stepley Co.
California	Bakersfield	Inland Equipment Co.
	El Monte	Warnock-Bancroft Equipment Co.
	Eureka	E.W. Pierce Co.
	Fresno	Allied Equipment Co.
	Marville	Valley Truck & Tractor Co.
	Oakland	Spears-Wells Machinery Co.
	Sacramento	Sacramento Valley Tractor Co.
Colorado	Denver	Farris-Moritz Equipment Co.
Idaho	Boise	The Sawtooth Co.
Montana	Billings	Westate Machinery Co.
Nevada	Elko	A-D Machinery Co.
New Mexico	Albuquerque	J.D. Gargina Co.
Oregon	Eugene	Western Equipment Co.
	Portland	" " " "
Utah	Salt Lake City	Rasmussen Equipment & Supply Co.
Washington	Seattle	Andrews Machinery of Washington, Inc.
	Spokane	Andrews Equip. Service of Wash., Inc.
Wyoming	Cheyenne	Worthington Machinery Co.

H. J. KRUEPER CO.
 535 South 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.

KWIK-MIX CO.
235 West 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, Mar.

DISTRIBUTORS

Arizona	Phoenix	Neill B.McGinnis Co.
California	Bakersfield	San Joaquin Tractor Co.
	Los Angeles	Harron, Rickard & McCone Co.
	"	Cost Reduction Equipment Co.
	San Francisco	Standard Machinery Co.
Colorado	Denver	McKelvy Machinery Co.
	"	Plant Equipment Co.
Idaho	Boise	Engineering Sales & Service Co.
Montana	Billings	Western Construction Equipment Co.
	Missoula	"
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	Columbia Equipment Co.
Utah	Salt Lake City	Kimball Equipment Co.
	"	National Equipment Co.
Washington	Seattle	Pacific Hoist & Derrick Co.
	Spokane	American Machine Co.

LA CROSSE TRAILER CORP.
418 Gould Street
La Crosse, Wisconsin

PRODUCTS: Low-Bed, Heavy Duty Trailers.

DISTRIBUTORS

Arizona	Phoenix	Road Machinery Co.
California	Los Angeles	Smith-Booth-Usher Co.
	San Francisco	Edward R.Bacon Co.
Colorado	Denver	Liberty Trucks & Parts
	"	McKelvy Machinery Co.
Montana	Billings	Western Construction Equipment Co.
	Missoula	"
Nevada	Reno	Sanford Tractor & Equipment Co.
	"	R.D.Roeder Equipment Co.
New Mexico	Albuquerque	R.L.Harrison Co.
	"	C.C.Ribble Co.
Utah	Salt Lake City	Gale Equipment Co.
	"	Luc Machinery Co.
	"	Western Machinery Co.
Wyoming	Cheyenne	Kerem Tractor & Equipment Co.

LE ROI DIVISION
Westinghouse Air Brake Co.
1706 South 68th Street
Milwaukee 14, Wisconsin

PRODUCTS: Air Compressors; Backfill Tampers; Back Hoes; Clay Spades; Drills; Engines; Front End Loaders; Generator Sets; Pavement Breakers; Rock Bits; Rock Drills; Tampers; Tractors; Wagon Drills.

REGIONAL MANAGERS

California	Compton	430 E.Compton	I.E.Smiley
Colorado	Denver	8705 Dover Circle	W.E.Mattson

SALES REPRESENTATIVES

California	Emeryville	1545 Park Ave.	W.H.Winheim
Montana	Butte	927 W.Woolmen	W.J.Briner
Washington	Seattle	550 Mercer St.	R.E.Marler

DISTRIBUTORS

Alaska	Anchorage	Craig Taylor Equipment & Supply Co.
Arizona	Phoenix	Equipment Sales Co.
California	Bakersfield	Crook Co.
	"	Lawless Brothers, Inc.
	Berkeley	Central Equipment Co., Inc.
	Fresno	Lawless Brothers, Inc.
	Los Angeles	Crook Co.
	Redding	Lovry Equipment Co., Inc.
	Sacramento	Central Equipment Co., Inc.
	San Francisco	Rix Co., Inc.
Colorado	Denver	Denver Machine Shop
	Grand Junction	S & M Supply Co., Inc.
Idaho	Boise	Engineering Sales Service, Inc.
	Idaho Falls	Southern Idaho Equipment Co.
	Twin Falls	"
Montana	Billings	Industrial Equipment Co.
	Great Falls	Normont Equipment Co.
Nevada	Reno	General Equipment Co.
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Portland	Balzer Machinery Co.
Washington	Seattle	Craig Taylor Equipment & Supply Co.
	"	Totem Equipment Co.
	Spokane	Equipment Sales & Service
Wyoming	Casper	Gehring Equipment & Supply Co.

LESCHEN WIRE ROPE DIVISION
H. K. Porter Co., Inc.
2727 Hamilton Avenue
St. Louis 12, Missouri

PRODUCTS: Wire Rope and Wire Rope Slings.

WESTERN OFFICES AND WAREHOUSES

California	Los Angeles	6424 E.Fleet St.
	San Francisco	520 4th St.
Oregon	Portland	914 NW 14th Ave.
Washington	Seattle	2724 First Ave.So.

DISTRIBUTORS

Arizona	Phoenix	Pratt-Gilbert Hardware Co.
	Yuma	Braden Machinery Co.
California	Arcata	Loggers Mill Supply
	Blithe	Honnen Machinery Co.
	Crescent City	Pacific Engine & Machine Works
	Dixon	Weaver Tractor Co.
	Fresno	Allied Equipment Co.
	Grass Valley	Steele Supply Co.
	Los Angeles	Bell & Black Supply Co.
	"	Garlinghouse-Fremont & Co.
	Napa	Berglund Tractor & Equipment Co.
	Oakland	Viking Supply Co.
	Oxnard	Wallace Machinery Co.
	Paso Robles	J.M.Wildman, Inc.
	Rio Vista	Weaver Tractor Co.
	Sacramento	"
	Salinas	Seaboard Equipment & Supply Co.
	"	Farmers Mercantile Co.
	San Francisco	Coast Equipment Co.
	Santa Rosa	Berglund Tractor & Equipment Co.
	Stockton	Hickinbotham Bros.
	Willits	Berglund Tractor & Equipment Co.
Colorado	Denver	Farris-Moritz Equipment Co.
	"	M.L.Foss, Inc.
	Pueblo	Holmes Hardware Co.
	"	S.W.Pressey & Son
Idaho	Boise	Gale City Steel, Inc.
	Buhl	Mountain States Implement Co.
	Idaho Falls	"
	"	"
	Preston	"
	Pocatello	Flaherty Manufacturing, Inc.
	Rexburg	Mountain States Implement Co.
	Rupert	"
	Salmon	Havemann Hardware Co.
Montana	Billings	Seitz Machinery Co.
	Great Falls	"
Nevada	Reno	Sierra Machinery Co.
Oregon	Astoria	Alfred Pustil Co.
	Independence	Independence Iron Works
	Portland	Sparks-Willis, Inc.
Utah	Ogden	Mountain States Implement Co.
	Salt Lake City	Industrial Supply Co., Inc.
	Tremonton	Mountain States Implement Co.
Washington	Abberdeen	Goldschtein & Block
	Bellingham	Powder Sales & Equipment Co.
	Seattle	Seattle Ship Supply, Inc.
	"	Washington Iron Works
	"	Yukon Equipment Co.
	Spokane	Noti-Atwater Co.

LE TOURNEAU-WESTINGHOUSE CO.
2301 North Adams Street
Peoria, Illinois

PRODUCTS: Abrasive Blades (Scraper & Dozer); Angle Dozers; Bulldozers; Cranes; Mobile; Graders; Grader Blades; Loaders; Logging Arches; Power Control Units; Prime Movers; Rippers; Rotary Snow Plows; Scarifier Teeth; Scrapers; Sheepfoot Rollers; Snow Plows; Tractors; Trailers; Logging Winches; Wire Rope; Bottom Dumps; Rear Dumps; Root Rakes; Tree Stingers.

FACTORY BRANCH

California San Francisco 230 7th St. Harley J.Cooke, Mar.
(Moving about March 1, 1956 to 9029 "G" St., Oakland)

REGIONAL MANAGERS

California	San Francisco	230 7th St.	D.E.Hoffman
Colorado	Denver	1222 W.16th St.	James T.Barrow
Washington	Spokane	1127 W.20th St.	B.W.Brereton

DISTRIBUTORS

Alaska	(Spokane)	Modern Machinery Co., Inc.
Arizona	Phoenix	*Road Machinery Co.
	"	Superior Equipment Co., Inc.
California	Bakersfield	Crook Company (Branch)
	Los Angeles	Crook Company
	Oakland	Fernuson & Blakemore Machinery Co.
Colorado	Denver	*Johnson & Tudor Co.
Idaho	Boise	Western Equipment Co.
	(Spokane)	Modern Machinery Co., Inc.
	Billings	Western Construction Equipment Co.
Montana	Great Falls	"
Oregon	Evadne	Loggers & Contractors Machinery Co.
	Portland	"
	(Boise)	Western Equipment Co.
Nevada	Reno	Pioneer Equipment Co. of Nevada

Continued on next page

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

LE TOURNEAU-WESTINGHOUSE CO. (Continued)

New Mexico	Albuquerque	Contractors Equipment & Supply Co.
	El Paso	Contractors Equip. & Supp. Co. of El Paso
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Seattle	Modern Machinery Co., Inc. (Branch)
	Spokane	" " " "
	(Portland)	Loggers & Contractors Machinery Co.
Wyoming	(Billings)	Western Construction Equipment Co.
	Casper	Moss Equipment & Supply Co.

*Adams Division Products only

**Adams Division Products & Tournepore only

THE LINCOLN ELECTRIC CO.

22801 St. Clair Avenue
Cleveland 17, Ohio

PRODUCTS: Electric Arc Welders; Arc Welding Electrodes and Arc Welding Supplies.

FACTORY BRANCHES

California	Emeryville	Manager	C.L. Stocker
	Los Angeles	"	J.B. McCormick
Colorado	Denver	"	Merrill Yale
Oregon	Portland	"	E.H. Well
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.

LINK BELT SPEEDER CORP.

1201 Sixth Street Southwest
Cedar Rapids, Iowa

PRODUCTS: Shovels; Cranes; Trench Hoes; Draglines; Crawler, Truck, Wheel-Mounted; Gasoline, Diesel or Electric Power.

DISTRICT SALES REPRESENTATIVES

California	Pasadena	283 S. El Molino Ave.	R.G. Robey
Oregon	Portland	3121 SW 10th Ave.	N.V. Chehak

DISTRICT SERVICE REPRESENTATIVES

California	Santa Ana	1531 W. 12th St.	K.G. Snider
Oregon	Tigard	Rt. 3, Box 473-A	W.B. Severe

DISTRIBUTORS

Alaska	Anchorage	Craig Taylor Equipment & Supply Co.
Arizona	Phoenix	Equipment Sales Co.
California	Fresno	Edward R. Bacon Co.
	Los Angeles	Essick Machinery Co.
	Oakland	Edward R. Bacon Co.
	Sacramento	" " " "
	San Francisco	" " " "
	Stockton	" " " "
	Udiah	" " " "
Colorado	Denver	H.W. Moore Equipment Co.
	Grand Junction	" " " "
Idaho	Boise	Western Equipment Co.
Montana	Billings	Montana Powder & Equipment Co.
	Helena	" " " "
Nevada	Elko	A-D Machinery Co.
New Mexico	Albuquerque	J.D. Coggins Co.
	Farmington	" " " "
Oregon	Portland	Nelson Equipment Co.
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Seattle	Howard-Cooper Corp.
	Spokane	Western Machinery Co.

LIPPMAN ENGINEERING WORKS

4603 West Mitchell Street
Milwaukee 14, Wisconsin

PRODUCTS: Crushing, Screening and Conveying Machinery.

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Los Angeles	Casey-Metcalf Machinery Co.
	San Francisco	Coast Equipment Co.
Colorado	Denver	Woodriff Bros.
Idaho	Idaho Falls	Southern Idaho Equipment Co.
Oregon	Eugene	Loggers & Contractors Machinery Co.
	Portland	" " " "
Washington	Seattle	Hulse Machinery Co., Inc.

Pre-selling of equipment buyers and users is the key to getting good distributors—Good distributors want popular lines, help them want your line!

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.

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	Feenaughy Machinery Co.
Montana	Billings	Hall-Perry Machinery Co.
New Mexico	Albuquerque	J.D. Coggins Co.
Oregon	Portland	Feenaughy Machinery Co.
Utah	Salt Lake City	Lund Machinery Co.
Washington	Seattle	Feenaughy Machinery Co.
	Spokane	" " " "
Wyoming	Cheyenne	Wortham Machinery Co.

LITTLE GIANT CRANE & SHOVEL, INC.

East 16th & Howard Drive
Des Moines 13, Iowa

PRODUCTS: Shovels; Cranes; Clamshells; Draglines; Trenches; Pile Drivers; Post Drivers; Crawler, Magnet, Truck Mounted and Swamper and Rail Propulsion Mounted; Gasoline, Diesel or Electric Power.

DISTRIBUTORS

Colorado	Denver	Farris-Moritz Equipment Co.
Montana	Billings	Western Construction Equipment Co.
	Great Falls	" " " "
Washington	Seattle	Pacific Holst & Derrick Co.
	Spokane	Western Machinery Co.

LOS ANGELES STEEL CASTING CO.

6199 South Boyle Avenue
Los Angeles 58, California

PRODUCTS: TAMPRITE Tamper Shanks and Tips; RIPZ Reversible Rippers.

MACK MOTOR TRUCK CORP.

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 Blvd.	E.R. Robinson
Oregon	Portland	1122 N. Williams Av.	J.D. Young
Utah	Salt Lake City	704 S. Third West	S.V. Trent
Washington	Seattle	3707 Airport Way	E.A. May

DIVISION MANAGERS

California	Los Angeles	2001 S. Alameda St.	J.C. Rowold, V.P.
			L.F. Lindstrom, Asst. D.M.

DISTRIBUTORS

Alaska	Anchorage	Northern Commercial Co.
Arizona	Phoenix	Arizona Truck Service & Sales
	Tucson	Graves & Reed
California	Arcata	Redwood Mack Sales, Inc.
	Bakersfield	California Truck & Ind. Equipment Co.
	Blythe	Leo's Truck & Diesel Service
	Colma	Ferretti Bros.
	Fresno	Reliable Automotive Co.
	Napa	Napa-Solano Mack Sales & Service
	Oakland	Howard B. Fredericks Co.
	Oroville	K & S Equipment Co., Inc.
	Palm Springs	Harold Smith Garage
	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	Farmer's Hardware & Equipment Co.
	Santa Ana	Ed Thompson Garage
	Stockton	Roadster Truck Sales
	Ventura	Fleet Maintenance, Inc.
Colorado	Grand Junction	Grand Junction Mack Sales & Service
	Pueblo	Mutual Machinery Co.
Idaho	Boise	Western Equipment Co.
	Lewiston	Idaho Cletrac Sales Co.
	Twin Falls	Willies Truck Sales
Montana	Billings	Billings Mack Sales & Service, Inc.
	Butte	Roberts Truck & Supply Parts
	Great Falls	Rice Motors
	Kalispell	Kalispell Mack Sales
	Missoula	Brian Motor Co.

Continued on next page

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

MACK MOTOR TRUCK CORP. (Continued)

Nevada	Las Vegas	The Motor Equipment Co.
	Reno	Jenkins & Albright
	Winnemucca	Sonoma Motors, Inc.
Oregon	Eugene	Pitchford Mack Sales Co.
	Medford	Jerry Olson Mack Sales
	Ontario	Mutch Oil Co.
	Pilot Rock	Mathews Motor Service
	Redmond	Mid-States Truck & Tractor
Utah	Cedar City	Cox Motor Co.
	Logan	Dean C. Pack Motor Co., Inc.
	Moab	Moab Garage Co.
	Ogden	Rawson Garage Co.
	Provo	Central Utah Motor Co.
	Tooele	E.L. Gillespie's Excel Service
Washington	Bellingham	Ernest Walker
	Chehalis	Mathis Motors
	Concrete	Concrete Automotive
	Port Angeles	Priest Logging & Equipment Co.
	Spokane	Lilenquist Motors, Inc.
	Wenatchee	Mid-State Equipment Co.
	Woodland	Tri-County Mack Sales & Service
	Yakima	Tire Sales & Equipment
Wyoming	Casper	E.G. Dratzick, Inc.
	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
Baldwin-Lima-Hamilton Corp.
14120 East Rosecrans Avenue - 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	Craig Taylor Equipment & Supply Co.
Arizona	Phoenix	Shriver Machinery Co.
California	La Mirada	Madsen Works, Div. Baldwin-Lima-Hamilton
	Oakland	C.H. Grant Co.
Colorado	Denver	McCoy Co.
Idaho	Boise	Western Equipment Co.
Montana	Billings	Hall-Perry Machinery Co.
	Butte	"
Nevada	(Salt Lake City)	Foulger Equipment Co.
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	Cramer Machinery Co.
Utah	Salt Lake City	Foulger Equipment Co.
Washington	Seattle	Modern Machinery Co., Inc.
	Spokane	"
Wyoming	Casper	Studer Tractor & Equipment Co.

MAGINNISS POWER TOOL CO.
154 Distl Avenue
Mansfield, Ohio

PRODUCTS: Hi-tectric (180 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 & Equipment Co.
	Fresno	"
	Sacramento	Island Equipment Co.
	Stockton	Equipment Sales & Service
	Los Angeles	Electric Tool & Supply Co.
Colorado	Denver	Western Machinery Co.
Montana	Helena	Montana Powder & Equipment Co.
	"	"
Oregon	Portland	Casey Tractor & Equipment Co.
Utah	Salt Lake City	Western Machinery Co.
Washington	Seattle	Universal Equipment Co.
	Spokane	Construction Equipment Co.

WESTERN CONSTRUCTION is first choice of equipment manufacturers — first choice is built into WC!

MALL TOOL CO.
7740 South Chicago Avenue
Chicago 19, Illinois

PRODUCTS: Chain Saws; Earth Augers; Concrete Vibrators, Surfacers & Finishers; Travelling Machines; Flexible Shafts; Generators; Grinders; Circular Hand Saws; Sump Pumps; Portable Electric & Pneumatic Drills.

FACTORY REPRESENTATIVES

California	Berkeley	Barton B. Davies	Regional Manager
	Glendora	Laurence Simellus	Sales
	Los Angeles	Richard D. Romandy	"
Colorado	Denver	Harold E. Ott	"
Montana	Great Falls	Edward P. Bucko	"
Oregon	Portland	Wilbur E. Fish	Manager
Washington	Seattle	Victor Frandsen	"
	Spokane	Myrle E. Bean	Sales

MALSARY MANUFACTURING CO.
845 92nd Avenue
Oakland 3, California

PRODUCTS: Steam 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
Washington	Seattle	6057 35th Ave., NE	H.T. Steinheim

DISTRIBUTORS

Alaska	(Seattle)	Yukon Equipment Co.
Arizona	Phoenix	E-Z Janitor Supply Co.
	"	Huddleston Equipment Co.
	Tucson	Harbour Tire & Auto Supply
California	Bakersfield	Deifels
	Fresno	Edward R. Bacon Co.
	"	Hachi 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.
Montana	Great Falls	Hines Motor Supply Co.
	Kalispell	Treasure State Equipment Co.
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	Hallidle Machinery Co.
	"	Modern Machinery Co.
Wyoming	Casper	Wyoming Automotive Co.

MANITOWOC ENGINEERING CORP.
South 16th Street
Manitowoc, Wisconsin

PRODUCTS: Crawler and Truck Mounted Power Cranes, Draglines, Shovels and Trenchers.

DISTRIBUTORS

Arizona	Phoenix	O.S. Stapley Co.
California	Los Angeles	Casey-Metcalf Machinery Co., Inc.
	Richmond	Bay Equipment Co.
Colorado	Denver	Air Rentals, Inc.
Montana	Helena	Steffeck Equipment Co.
New Mexico	Albuquerque	J.D. Coogins Co.
Oregon	Portland	Manitowoc 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	Tucson	Boards GMC Co.
California	Fresno	Ruckstell California Sales Co.
	Los Angeles	Truck Bodies Co.
	Oakland	Ruckstell California Sales Co.
Colorado	Denver	Woerber Auto Body & Manufacturing
Montana	Great Falls	Johnson Distributing Co.
New Mexico	Albuquerque	M & F Equipment Co.
Oregon	Portland	Pacific Body Builders, Inc.
Washington	Spokane	Alloy Manufacturing Co.

Good distributors—backed with advertising support in WC—are the key to successful selling in the West!

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

MARION POWER SHOVEL CO.

Marion
Ohio

PRODUCTS: Power Cranes; Shovels; Draglines; Clamshells; Backhoes; Magnet Cranes; Pile Drivers; Skimmers - from $\frac{3}{4}$ to 60 cubic yard capacity; from 10 to 60-ton lifting capacity; mounted on crawlers, trucks or rubber tired as the self-propelled, one-man operated MOBILCRANE.

WESTERN SALES MANAGER

California S. San Francisco 326 Shaw Road Dean Calland

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

SERVICE REPRESENTATIVES

California	San Mateo	36th Ave. West	Fred Holverstott
Oregon	Portland	9035 N. Clarendon	Norman S. Holcomb
	"	3015 NE 108th Ave.	John V. Bernhardt

DISTRIBUTORS

Alaska	(Seattle)	Star Machinery Co.
Colorado	Denver	Western Machinery Co.
New Mexico	Albuquerque	M & F Equipment Co.
Oregon	Eugene	Western Equipment Co.
	"	"
Washington	Seattle	Star Machinery Co.
	Spokane	"

MARLOW PUMPS DIVISION

Beil & Gossett Co.
Box 566
Ridgewood, New Jersey

PRODUCTS: Pumps; Dewatering, Self-Priming Centrifugal, Diaphragm, Jetting.

FACTORY REPRESENTATIVES

California	Burbank	223 S. Beachwood	Wm. M. Coopman
Oregon	Portland	Box 4326	Larry Harrington Co.

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	Bakersfield	Crooks Co.
	Los Angeles	Dinsmore Equipment Co.
	Monrovia	Geo. M. Philpott Co.
	Oakland	"
	Sacramento	"
	San Diego	Hudson Corp.
	San Francisco	Geo. M. Philpott Co.
Colorado	Denver	A. J. Philpott Co.
Idaho	Boise	Engineering Sales Service, Inc.
Montana	Billings	Montana Powder & Equipment Co.
	Helena	"
Oregon	Portland	Geo. M. Philpott Co.
Washington	Seattle	Jack Sehlberg Equipment Co.
	"	Star Machinery Co.

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 266 Lenos 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. Krapp 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, California

PRODUCTS: Valves and Gatevalves; Portable Hydrants for Irrigation and commercial uses; Concrete Pipe Making Machines.

MARTIN MACHINE CO.

816 North East Street
Kewanee, Illinois

PRODUCTS: Heavy Duty Equipment Trailers.

Your "CATERPILLAR" Dealer is your MARTIN Dealer.

MARVEL EQUIPMENT CORPORATION

215 Eagle Street
Brooklyn 22, New York

PRODUCTS: Electric Sets; Diesel, Generator Sets; Grinders; Saw Rigs; Vibrators.

DISTRIBUTORS

California	Pasadena	J. E. Haddock, Ltd.
Colorado	Denver	McKelvy Machinery Co.
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	Brunner & Lav Corp.
Utah	Salt Lake City	Heiner Equipment Co.
Washington	Spokane	Fred M. Viles Co.
Wyoming	Casper	Studer Tractor & Equipment Co.

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	Inglewood	C. P. Concrete Equipment
	Oakland	"
Colorado	Denver	Power Equipment Co.
Idaho	Boise	Western Equipment Co.
	Idaho Falls	"
Montana	Billings	Western Construction Equipment 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	Totem Equipment Co.
	Spokane	Andrews Equipment Co.
Wyoming	Cheyenne	Worham Machinery Co.

MATERIAL HANDLING, INC.

4985 Fyler Avenue
St. Louis 9, Missouri

PRODUCTS: Material Handling Equipment; Batchers; Indicators; 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 & Emergency); Six-Wheel Truck Units; Winches & Hoists.

DISTRIBUTORS

Contact local Crane & Shovel Dealer for Maxi Crane Carrier information and other products.

MAXON CONSTRUCTION CO., INC.

Manufacturing Division
131 North Ludlow Street
Dayton 2, Ohio

PRODUCTS: Concrete Haulers.

DISTRIBUTORS

Arizona	Phoenix	Neil B. McGinnis Equipment Co.
California	Los Angeles	Garlinghouse-Freeman & 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.

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

C. I. T. CORPORATION

660 Market Street, San Francisco
Equitable Building, Portland

416 West 8th Street, Los Angeles

MAYHEW SUPPLY CO., INC.

4700 Scyene Road
Dallas, Texas

PRODUCTS: Portable Rotary Drill Rigs; Core Drills.

FACTORY BRANCHES

Colorado	Grand Junction	2909 North Ave.	Lou Ladwig
Montana	Sidney	813 Second St.	John Shaddler
Wyoming	Casper	502 N.Fenway	

DIVISION MANAGER

Wyoming	Casper	502 N.Fenway	Ray Medlock
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DISTRIBUTOR

California	San Francisco	George M. Philpott Co.
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M-B CORPORATION

New Holstein
Wisconsin

PRODUCTS: Power Brooms; Trailers; Street, Airport, Highway and Warehouse Markers; Garbage Collection Bodies; Regular and Reflective Highway and Sign Paints.

DISTRIBUTORS

Arizona	Phoenix	Road Machinery Co.
California	Baldwin Park	Bronson Equipment Co.
	San Francisco	Edward R. Bacon Co.
Colorado	Denver	Liberty Trucks & Parts
Montana	Billings	Industrial Equipment Co.
	Great Falls	Normont Equipment Co.
Nevada	Las Vegas	Clark County Wholesale Mercantile Co.
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Portland	Contractors Equipment Corp.
Utah	Salt Lake City	Western Machinery Co.
Washington	Spokane	"
	Seattle	Jack Sahlberg Equipment Co.
Wyoming	Cheyenne	Kerem Tractor & Equipment Co.

M. P. McCAFFREY, INC.

2121 East 25th Street
Los Angeles 58, California

PRODUCTS: Clamshell Buckets; Dragline Buckets; Crane Booms; Back Hoe Attachments; Sheaves and Sheave Blocks; Rock Tongs; Sheepfoot Tamers; Scrap Grapples.

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
	"	Lee Redman Equipment Co.
California	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 Equipment & Supply Co.
Oregon	Medford	Cal-Ore Machinery Co.
	Portland	Balzer Machinery Co.
Utah	Salt Lake City	Arnold Machinery Co.

McCAFFREY-RUDDOCK TAGLINE CORP.

2131 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.
	"	Shriver Machinery Co.
California	Berkeley	Owen Bucket Co., Ltd.
	Culver City	F.W. Shrader Co.
	Los Angeles	Brown-Beris Industrial Equipment Co.
	"	Crook Company
	"	Herron, Rickard & McCone Co.
	"	M.P. McCaffrey, Inc.
	"	Shaw Sales & Service Co.
	"	Shepherd Tractor & Equipment Co.
	"	Smith-Booth-Usher Co.
	"	Southern California Equipment Co.
	Willington	Hendricks Equipment Co.
Colorado	Denver	Constructors Equipment Co.
	"	Ray Corson Machinery Co.
	"	Fargo-Noritz Equipment Co.
	"	H.W. Moore Equipment Co.
Idaho	Boise	Feenaughty Machinery Co.
	"	Western Equipment Co.
	"	Arnold Machinery Co., Inc.
Montana	Idaho Falls	Hall-Perry Machinery Co.
	Billings	"
	Butte	"
	Great Falls	Normont Equipment Co.
	Missoula	Westmont Tractor & Equipment
Nevada	Reno	Sierra Machinery Co.

Continued in next column

McCAFFREY-RUDDOCK TAGLINE CORP. (Continued)

New Mexico	Albuquerque	Contractors Equipment & Supply Co.
	"	E.D. Flournoy Co.
Oregon	Hobbs	El Paso Welding Supply
	Eugene	P.L. Crooks & Co., Inc.
	Medford	Western Equipment Co.
	Portland	Cal-Ore Machinery Co.
	"	Balzer Machinery Co.
	"	Clyde Equipment Co.
	"	P.L. Crooks & Co., Inc.
	"	Electric Steel Foundry Co.
	"	Feenaughty Machinery Co.
	"	Western Equipment Co.
Utah	Salt Lake City	Arnold Machinery Co., Inc.
	"	Foulger Equipment Co.
Washington	Seattle	Clyde Equipment Co.
	"	A.H. Cox & Co.
	"	Feenaughty Machinery Co.
	"	Star Machinery Co.
	"	Washington Machinery Co.
	"	Electric Steel Foundry Co.
	Spokane	General Machinery Co.
	"	Modern Machinery Co., Inc.
	"	Feenaughty Machinery Co.
	Tacoma	A.H. Cox & Co.
	Wenatchee	"
Wyoming	Casper	Kerem Tractor & Equipment Co.
	Cheyenne	"

McCULLOCH MOTORS CORP.

6101 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	Frazier & 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.
	Roseburg	McCulloch Chain Saw Sales & Service
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; Complete Pile Driving Rigs; Sand-Drain Driving Equipment; Steam Generators; Material Handling Equipment.

DISTRIBUTORS

California	Los Angeles	Garlinhouse, 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	G.H. Jones Equipment Co.
Washington	Seattle	Star Machinery Co.
	Spokane	"

MEILI-BLUMBERG CORP.

1615 Wisconsin Avenue
New Holstein, Wisconsin

PRODUCTS: Power Brooms; Trailers; Street, Airport, Highway and Warehouse Markers; Refuse Bodies, Packer Type.

METAL FORMS CORP.

3334 North Booth Street
Milwaukee 12, Wisconsin

PRODUCTS: Metal Forms for concrete construction work; Foundation Forms; Road Forms; Curb & Gutter Forms; Circular Tank and Silo Forms; Manhole Forms.

DISTRIBUTORS

Alaska	Anchorage	Craig Taylor Equipment & Supply Co.
Arizona	Phoenix	State Tractor & Equipment Co.
California	Los Angeles	Brown-Beris Industrial Equipment Co.
Colorado	Denver	Corson Machinery Co.
Idaho	Pocatello	Fisherly Equipment Co.
Montana	Billings	Western Construction Equipment Co.
Nevada	Las Vegas	Inland Service & Supply Co.
Utah	Salt Lake City	Lund Machinery Co.
	"	Rocky Mountain Machinery Co.

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

MID WESTERN INDUSTRIES, INC.
 1009 South West Street
 Wichita, Kansas

PRODUCTS: Loaders; Backhoes.

DISTRIBUTORS

California	Los Angeles	Tractor Sales Corp.
	Stockton	H.C. Shaw Co.
Colorado	Denver	Interstate Tractor Sales
Montana	Billings	Montana Oliver Distributors
Oregon	Portland	Western Farm Equipment, Inc.
Utah	Salt Lake City	General Implement 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.

MILLER TILT TOP TRAILER CO.
 450 South 92nd Street
 Milwaukee 14, Wisconsin

PRODUCTS: Tilt Top Trailers.

DISTRIBUTORS

Arizona	Phoenix	Superior Equipment Co.
California	Los Angeles	Brown-Beta Industrial Equipment Co.
Colorado	Denver	Graham Road Equipment Co.
Montana	Billings	Seltz Machinery Co.
Nevada	Reno	Nevada Equipment Service
Oregon	Medford	Industrial Machinery & Pump Co.
Utah	Salt Lake City	Cafe Equipment Co.
Washington	Seattle	Pacific Hoist & Derrick Co.
Wyoming	Casper	Studer Tractor & Equipment Co.

MINNEAPOLIS-MOLINE CO.
 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 BRANCHES

California	Stockton	H.F. Anderson	Manager
Colorado	Denver	H.L. Dolbec	"

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Los Angeles	Casey-Metcalf Machinery Co., Inc.
	San Francisco	Oswald Machine Co.
Colorado	Denver	Gunderson-Taylor Machinery Co.
	Pueblo	Mutual Machinery Co.
Idaho	Boise	The Sawtooth Co.
Montana	Great Falls	Central Machinery Co.
	Kalispell	Modern Equipment Co.
	Miles City	Tractor & Equipment Co.
	Missoula	Missoula Mercantile Co.
New Mexico	Albuquerque	Contractors Equipment & Supply
Oregon	Portland	Andrews & Andrews Equipment Co.
Utah	Salt Lake City	Minneapolis-Moline Co.
Washington	Seattle	Modern Machinery Co., Inc.
	Spokane	"

MISSISSIPPI VALLEY EQUIPMENT CO.
 511 Locust Street
 St. Louis 1, Missouri

 PRODUCTS: Rental and sale of Steel Sheet Piling and Bearing
 Piles; Rebuilt and New-Rile Hammers; Pile Extractors
 and Pile Driving Accessories; Heavy Construction and
 Railway Equipment.

Write us for more information

Save your HANDBOOK for emergency contacts with equip-
 ment 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!

MIXERMOBILE DISTRIBUTORS, INC.
 8027 N.E. Killingsworth
 Portland 20, Oregon

 PRODUCTS: Scoopmobiles; Mixermobiles; Towermobiles; Duo-Way
 Scoops; Duo-Way Lifts; Stationary Towers; Stationary
 Mixers; Tractormobiles; Dozermobiles.

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	El Monte	Bronson Equipment Co.
	Los Angeles	Essick Machinery Co.
	Oakland	Mixermobile Sales & Service, Inc.
Colorado	Denver	Constructors Equipment Co., Inc.
Idaho	Boise	Western Equipment Co.
Montana	Missoula	Westmont Tractor & Equipment Co.
Nevada	Reno	Mack Truck Sales
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	"

MONARCH ROAD MACHINERY CO.
 1331 Michigan Street Northeast
 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.

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, Mo.

 PRODUCTS: Asphalt Road Planers; Hydraulic Hotsets; Steel Dumping
 Bodies; Hydraulic Cylinders; Highway Mowers; Truck
 Cranes.

DISTRIBUTORS

B.C.	Vancouver	Loaders & Contractors Eqpt. Co., Inc.
California	San Francisco	Coast Equipment Co.
Oregon	Portland	Cramer Machinery Co.
Washington	(Portland)	"

MORGEN MANUFACTURING CO.
 117 West Third Street
 Yankton, South Dakota

PRODUCTS: Adjustable Masonry Scaffolding.

DISTRICT MANAGER

Washington	Bellevue	8733 4th Pl. N.E.	James A. Dougan
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DISTRIBUTOR

Washington	Seattle	Mutual Materials Co.
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MORSE BROS. MACHINERY CO.
 2900 Brighton Boulevard
 Denver 1, Colorado

 PRODUCTS: Sluice Gates; Head Gates; Flap Gates; Jaw Crushers;
 Ball and Rod Mills; Flotation Machines; Thickeners;
 Classifiers; Aqueators; Vacuum Filters; Diaphragm
 Pumps.

DISTRIBUTORS

California	Los Angeles	Process Engineers, Inc.
	San Mateo	"
Utah	Salt Lake City	Water Works Equipment Co.
Washington	Seattle	McIlaren Co.

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

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

M-R-S MANUFACTURING CO.

Box 336
Flora, Mississippi

PRODUCTS: Diesel Wheel Tractors; Hauling Units; Bulldozers.

MUNICIPAL SUPPLY CO.

2508 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	Constructors Equipment Co.
	"	Liberty Trucks & Parts Co.
Idaho	Boise	The Sawtooth Co.
New Mexico	Roswell	Smith Machinery Co.
Utah	Salt Lake City	C.H. Jones Equipment Co.
Washington	Seattle	Reliance Equipment & Supply
	Spokane	Inland Diesel & Machinery Co.

MURPHY DIESEL CO.

5317 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	109 S. Coronado	F. North Jones
Washington	Redmond	Rt. 1, Box 1057	Bradley Bartlett
Wyoming	Casper	1327 W. 25th St.	J.L. Jarboe

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., Inc.
Idaho	Boise	Engineering Sales Service Co., 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.

L. R. MURPHY SCALE CO.

1610 North "C" Street
Sacramento, California

PRODUCTS: Contractors Motor Truck Portable Scales; Motor Truck Pit Type Scales; Hopper Scales; Built-In & 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: "Transo-loader" Tractor Loaders.

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

Arizona	Phoenix	Dye Oxygen Co., Inc.
	Tucson	" " " "
	Yuma	" " " "
California	Albany	Atlas Welding Supply Co.
	Bakersfield	Kern Welding Supplies
	Eureka	Eureka Oxygen Co.
	"	McGaraahan Supply Co.
	Fresno	Fresno Oxygen & Welding Suppliers
	"	S.J. Sigler

Continued in next column

NATIONAL WELDING EQUIPMENT CO. (Continued)

California	Hanford	Valley Oxygen Co.
	Huntington Park	Burdett Oxygen Co.
	Long Beach	Bowers Ambulance Service
	"	Welding Equipment Co.
	Los Angeles	Abasco, Inc.
	"	Anderson Equipment Co.
	"	Angelus Oxygen & Equipment
	"	Hudson Oxygen Therapy Sales Co.
	"	Stuart Oxygen Co.
	"	H.C. Witherspoon, Inc.
	Marvsville	Hust Brothers, Inc.
	Merced	Laird Welding & Manufacturing Works
	Modesto	Welders Supply Service
	Oakland	Heldt Equipment Co.
	"	Stuart Oxygen Co.
	Redding	Paul Droscher Sales
	Sacramento	California Oxygen Co.
	San Diego	Aeroweld Supply Co.
	"	Bowers & Co.
	San Francisco	Stuart Oxygen Co.
	San Jose	Pacific Hardware & Steel Co., Inc.
	Santa Ana	V.B. Anderson Co.
	Santa Rosa	Oxygen Service & Supply
	Stockton	California Welding Supply
	Whittier	V.B. Anderson Co.
Colorado	Denver	Western Oxygen Co.
	Pueblo	" " "
Idaho	Boise	Spencer Supply Co.
Montana	Billings	Home Oxygen Co.
	Great Falls	Mike's Welding Supply Co.
Nevada	Reno	Sierra Oxygen Co.
New Mexico	Albuquerque	New Mexico Steel
	Hobbs	Western Oxygen, Inc.
	Roswell	Western Welders Supply Co.
Oregon	Medford	Industrial Air Products Co.
	Portland	" " "
Washington	Bellingham	Ekdahl, Seppala & Gregor, Inc.
	Ephrata	Ephrata Oxygen Co.
	Seattle	Welders Supply Co.
	"	Western Oxygen, Inc.
	Spokane	Industrial Air Products Co.
	"	Gibson Welding Supplies
	Yakima	Industrial Air Products Co.
Wyoming	Warland	Warland Oxygen Co.

NEO-FLASHER MANUFACTURING CO.

3210 Valhalla Drive
Burbank, California

PRODUCTS: Flasher Warning Lights and Barricades for construction uses.

DISTRICT MANAGERS

Colorado	Denver	US Natl. Bank Bldg.	Blaine Riley
Oregon	Portland	122 SW First Ave.	Art Sullivan
Washington	Seattle	1954 First Ave.	Bruce Rutherford

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Alhambra	Frank Cox Equipment Co.
	Los Angeles	Acme Industrial Supply Co.
	"	Construction Supply Co.
	"	Harron Rickard & McCone
	"	Otto K. Olesen Co.
	Oakland	Neo-Flasher Sales & Service
	Sacramento	A & B Neo-Flasher Sales & Service
Colorado	Denver	Western Machinery Co.
Montana	Helena	Montana Powder & Equipment Co.
Oregon	Portland	Contractors Equipment Corp.
	"	Traffic Safety Supply Co.
Utah	Salt Lake City	Western Machinery Co.
Washington	Seattle	Safety Supply Co.
	"	Star Machinery Co.
	Spokane	Western Machinery Co.
Wyoming	Cheyenne	Wortham Machinery Co.

NO-JOINT CONCRETE PIPE CO.

Yuba City
California

PRODUCTS: Machine cast in place concrete pipe for storm drains, irrigation and underground canals.

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**

NOBLE CO. 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 First Ave., N. Dale Nunemaker

SOUTHWEST DISTRICT SALES REPRESENTATIVE

California Inglewood 117 1/2 W. Manchester Lawrence Taylor

DISTRIBUTORS

Arizona	Phoenix	Superior Equipment
California	Oakland	Noble Company
Colorado	Denver	Western Machinery Co.
Idaho (S)	Boise	Arnold Machinery Co.
Idaho (N)	"	Intermountain Equipment Co.
Oregon (N)	"	Loggers & Contractors Machinery Co.
Oregon	Portland	

NORDBERG MANUFACTURING CO. 3073 South Chase Avenue Milwaukee 1, Wisconsin

PRODUCTS: "SYMONS" Cone Crushers; "SYMONS" Vibrating Screens; Primary Gyratory Crushers; Gyradisc Crushers; Grinding Mills; Kinds; Coolers; Slakers; Mine Hoists; Railway Track Maintenance Machinery; Diesel Engines (10 to 12,800 HP); Gasoline Marine Engines.

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	Howard-Cooper Corp.

NORTHFIELD IRON CO. Northfield Minnesota

PRODUCTS: All Steel Snow Fence.

DISTRIBUTORS

Idaho	(Salt Lake)	J.T. Holland Co.
Montana	"	Culvert Co.
Nevada	(Salt Lake)	Roscoe Steel Co.
Utah	Salt Lake City	J.T. Holland Co.
Wyoming	(Billings)	Roscoe Steel Co.

NORTHWEST ENGINEERING CO. 135 South LaSalle Street Chicago 3, Illinois

PRODUCTS: Shovels; Cranes; Draglines and Pullshovels - Crawler and Truck Mounted.

FACTORY BRANCHES

California	Los Angeles	Manager	P.C. Rowe
	San Francisco	"	A.G. Crowley
Washington	Seattle	"	J.L. Tallman

DISTRIBUTORS

Arizona	Phoenix	Superior Equipment 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	Mid-State Equipment Co.
Wyoming	Cheyenne	Jeremi Tractor & Equipment Co.

NOVO PUMP & ENGINE CO. 702 Porter Street Lansing 5, Michigan

*PRODUCTS: Diaphragm Pumps; Hoists; Pavement Breakers.

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

O. K. MACHINERY DIVISION OF JOHN C. POTTER PRINTING PRESS CO. Florence Street Columbia, Pennsylvania

PRODUCTS: Hoists; Winches; Air Compressors (Portable); Portable Man Positioners; Portable Elevators.

OLIVER CORP. 400 West Madison Street Chicago 6, Illinois

PRODUCTS: Crawler and Wheel Tractors (Gas & Diesel) with allied equipment.

WESTERN DIVISION MANAGER

California	Oakland	1066 47th Ave.	Sam W. White, Jr.
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FACTORY BRANCHES

California	Los Angeles	4330 District Blvd.	H.W. DeMent, Mgr.
	Oakland	1066 47th Ave.	G.M. Blow, Mgr.
Oregon	Portland	130 SE Morrison	H.E. Noess, Mgr.

DISTRIBUTORS

Arizona	Phoenix	Arizona Equipment Sales, Inc.
California	Bakersfield	Motor Truck Sales & Service Co.
	Boice	Cal-Butte Tractor Co.
	Colton	Condosta Tractor Co.
	Cotati	Tractor Specialties
	Eureka	Gustafson Tractor Co.
	Los Angeles	LeRoi-Rix Machinery Co.
	Napa	Warner-Ritz Tractor & Equipment Co.
	Porterville	Farmer Equipment & Tractor Co.
	Redding	Louvy Equipment Co., Inc.
	Sacramento	Flood Equipment Co.
	Salinas	Ashton Implement Co.
	San Jose	Mechanical Farm Equipment Co.
	San Leandro	M.F.D., Inc.
	Stockton	H & M Tractor Co.
Colorado	Denver	Liberty Truck & Parts Co.
Idaho	Boise	Eng. Sales Service, Inc.
	Cottonwood	Idaho Cierac Sales Co.
	"	"
	"	"
	"	"
Montana	Billings	Calrd Engineering Works, Inc.
	Helena	"
Nevada	Whitney	Nevada Tractor Sales
New Mexico	Albuquerque	N.C. Ribble Co.
Oregon	Eugene	Loggers & Contractors Machinery Co.
	Portland	"
Utah	Salt Lake City	Arnold Machinery Co., Inc.
Washington	Seattle	Pacific Holst & Derrick Co.
	Spokane	Inland Diesel Machinery Co.
	Walla Walla	Melcher-Ray Machinery Co.
	Wenatchee	Central Tractor & Equipment

D. W. ONAN & SONS, INC. University Avenue Southeast & 25th Minneapolis 14, Minnesota

PRODUCTS: Electric Generating Plants; Gasoline and Diesels; Gasoline Engines; Separate Generators; Diesel Engines.

ZONE MANAGERS

California	Palo Alto	1588 Edgewood Dr.	Frank Gernand
Colorado	Denver	2800 Tennyson St.	Les Leland

DISTRIBUTORS

Arizona	Nogales	Commercial Distributors
	Phoenix	Equipment Sales Co.
California	Monterey	Ets Hokin & Galvan
	Oakland	"
	San Diego	"
	San Francisco	"
	Stockton	"
	Wilminaton	"
Colorado	Denver	National Light & Pump Co.
Montana	Billings	Great Northern Tool & Supply
	Cutbank	"
	Great Falls	Brack Motor Supply
	Helena	"
	Kevin	Great Northern Tool & Supply
	Missoula	Miller 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.

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!

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

OSHKOSH MOTOR TRUCK, INC.
2300 Oregon Street
Oshkosh, Wisconsin

PRODUCTS: 4 and 6 Wheel Drive Trucks used in snow removal and on and off-highway hauling. From 22,000 pounds to 120,000 pounds gross vehicle weight.

DISTRIBUTORS

California	Los Angeles	Le Roi-Rix Machinery Co.
	San Francisco	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	Kereml Tractor & Equipment Co.

OTTAWA STEEL DIVISION
L. A. Young Spring & Wire Corp.
435 1/2 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 Machine; Outdoor Type Fork Lift Tractor.

FACTORY REPRESENTATIVE

California	Glendale	1322 N. Central	Arlie J. Simmonds
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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	Starline Equipment Co.
Montana	Billings	Seltz Machinery Co.
	Great Falls	" "
New Mexico	Albuquerque	J.D. Coolins Co.
	"	R.L. Harrison Co., Inc.
	"	N.C. Ribble Co.
Oregon	Portland	Cramer Machinery Co.
Utah	Salt Lake City	Kimball Equipment Co.
Washington	Seattle	Star Machinery Co.
	Spokane	Western Machinery Co.
Wyoming	Casper	Kereml Tractor & Equipment Co.
	Cheyenne	" " " "

OVERSTROM & SONS
2213 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., LTD.
59th & Breakwater
Cleveland, Ohio

PRODUCTS: Clamshell Buckets and Grapples.

WESTERN FACTORY BRANCH

California	Berkeley	Manager	E.L. Kelzer
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DISTRIBUTORS

Arizona	Phoenix	Shriver Machinery Co.
	"	State Tractor & Equipment Co.
	"	Western Machinery Co.
California	Los Angeles	Brown-Bevis Industrial Equipment Co.
	"	Electric Steel Foundry Co.
	"	Garlinghouse, Fremont & Co.
	San Diego	Southern Equipment & Supply Co.
Idaho	Boise	Intermountain Equipment Co.
Nevada	Reno	Sierra Machinery Co.
Oregon	Portland	Clyde Equipment Co.
Washington	Seattle	A.H. Cox & Co.
	Spokane	Intermountain Equipment Co.

WESTERN CONSTRUCTION initiated and sponsors the famous "Dr. L. I. Hewes Award" the western highway engineer's most coveted prize for achievement!

PACIFIC CAR & FOUNDRY CO.
Fourth and Factory
Renton, Washington

PRODUCTS: Hoists; Winches; Logging Arches; Wire Rope; Rigging Filings; Power Control Units; Ship Repairs; 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: Power Pumps; Sump Pumps; Contractors' Pumps.

FACTORY BRANCHES

California	Los Angeles	5000 District Blvd.	R.H. Franklin, Mar.
Oregon	Portland	526 N.W. Broadway	S.B. Huntington, Mar.
Washington	Seattle	114 W. Harrison	Bernard Willis, Mar.

DISTRIBUTORS

Colorado	Denver	Mine & Smelter Supply Co.
	"	Waukesha Engine & Equipment Co.
New Mexico	Albuquerque	Seabee-Huff Equipment Co.
Utah	Salt Lake City	J. Henry Jones Co.
	"	"
	"	National Equipment Co.

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
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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.
	Coos Bay	Loaders Supply Co.
	Roseburg	Flury Supply Co.
	Medford	Roque Equipment Co.
Utah	Salt Lake City	J.T. Holland Co.
Washington	Seattle	Collins Machinery Co.
	Spokane	Hellmuel & Co.

PAGE ENGINEERING CO.
Clearing Post Office
Chicago 38, Illinois

PRODUCTS: Walking Draglines; "Automatic" Dragline Buckets; Horizontal-Vee Diesel Engines; Chain and Bucket Accessories.

DISTRIBUTORS

California	Los Angeles	Bevis Machinery Co.
	"	Brown-Bevis Industrial Equipment Co.
	"	Smith-Booth-Usher Co.
	Richmond	Bay Equipment Co.
	San Francisco	Coast Equipment Co.
	"	Edward R. Bacon Co.
	"	Standard Machinery Co.
	Stockton	Moore Equipment Co.
	"	Stockton Iron Works
Colorado	Denver	Colorado Builders Supply Co.
	"	Ray Corson Machinery Co.
	"	Farris-Moritz Supply Co.
	"	Liberty Trucks & Parts Co.
	"	Mine & Smelter Supply Co.
	"	H.W. Moore Equipment Co.
	"	McCoy Company
	"	Power Equipment Co.
	"	Western Machinery Co.
Idaho	Idaho Falls	Southern Idaho Equipment Co.

Continued on next page

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

PAGE ENGINEERING CO. (Continued) Clearing Post Office Chicago 38, Illinois

Montana	Billings	Western Construction Equipment Co.
"	"	Industrial Equipment Co.
"	"	Seltz Machinery Co., Inc.
Butte	"	Hall-Perry Machinery Co.
Great Falls	"	Central Machinery Co.
Helena	"	Steffek Equipment Co.
Missoula	"	Westmont Tractor & Equipment Co.
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
"	"	Harry Cornelius Co.
Oregon	Medford	Cal-Ore Machinery Co.
"	Portland	Feeneuchly Machinery Co.
"	"	Hoover-Cooper Corp.
"	"	Nelson Equipment Co.
Utah	Salt Lake City	Arnold Machinery Co.
"	"	Western Machinery Co.
Washington	Seattle	A.H.Cox & Co.
"	"	Northern Commercial Co.
"	"	Star Machinery Co.
"	Spokane	Yukon Equipment Co.
"	"	Andrews Equipment Co.
"	"	Modern Machinery Co.
Wyoming	Casper	Studer Tractor & Equipment Co.
"	Cheyenne	Northam Machinery Co.
"	Greybull	Nash-Davis Machinery Co.

THE PARSONS CO. 200 North Eighth Avenue East Newton, Iowa

PRODUCTS: Trenchliners and Trenchmobiles (Ditchers and Trenchers).

FACTORY BRANCH

California Stockton Koehring Co. of Calif., 2200 Country Club Blvd.
Manager - Harry Powers

DISTRICT REPRESENTATIVE

California Stockton 2200 Country Club Blvd. W.B. Thompson

DISTRIBUTORS

Arizona	Phoenix	Nell B. McGinnis Co.
California	Los Angeles	Herron, Rickard & McCone Co.
"	San Francisco	Standard Machinery Co.
"	Bakersfield	San Joaquin Tractor Co.
Colorado	Denver	McKelvy Machinery Co.
Idaho	Boise	Engineering Sales Service, Inc.
Montana	Billings	Western Construction Equipment Co.
"	Great Falls	"
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. Bersch, Mgr.
"	San Francisco	1695 Mission St. R.B. Bergh, Mgr.
Washington	Seattle	420 Elsie Ave. N. J.J. Wilbur, Mgr.

DISTRIBUTORS

Arizona	Phoenix	Superior Equipment Co.
California	Bakersfield	Builders Supply & Equipment Co.
"	San Diego	Squires-Bell Machinery Co.
Colorado	Denver	The United Materials Co.
Nevada	Las Vegas	Contractors Service Co.
"	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
"	Roswell	Lumbermen's Supply Co.
Utah	Salt Lake City	Hansen Lime & Stucco Co.
Washington	Spokane	Allied Industries, Inc.

PEERLESS PUMP DIVISION Food Machinery & Chemical Corp. 301 West Avenue 26 Los Angeles, California

PRODUCTS: Pumps, all types.

FACTORY BRANCHES

Arizona	Phoenix	Manager	H.L. Drew
California	Bakersfield	"	Holly Stanford
"	Fresno	"	C.H. Sator
New Mexico	Albuquerque	"	Max Maurer

EARL H. PENCE & CO., INC. 2150 Washington Avenue San Leandro, California

PRODUCTS: Aerial Tractors and Equipment; Aerialhoes; Aerial Diesel Mucking Machine; Aerial Loaders.

DISTRIBUTORS

Alaska	Anchorage	George W. Terry
Arizona	Phoenix	Reed Dore Co.
California	El Cerrito	Oldenburg Rental Equipment
"	Escondido	Webb Bros.
"	Fresno	Decker Equipment Rental
"	Los Angeles	Agricart Equipment Corp.
"	Redding	Lowry Equipment Co.
"	San Diego	Palomar Tractor Co.
"	San Jose	Emery Supply Co.
"	San Mateo	Bayshore Equipment Rental
"	San Rafael	Tool-terris
"	Santa Cruz	Webb Farm Equipment Supply
Colorado	Denver	Colorado Toro Co.
Nevada	Reno	B & M Tractor & Equipment
Oregon	Portland	E.O. Dreke Co.
"	Tigard	Triangle Tractor Co.
Utah	Moab	J.S. Corley Enterprises
"	Salt Lake City	Sharn Equipment Sales
Washington	Seattle	Ed Short Tractors

PERFECTION STEEL BODY CO. Gallatin Ohio

PRODUCTS: Perfection-Dump, Stake, Contractors', Coal and Coke, Drop Side, Steel Platform and Special Purpose Truck Bodies; Hydraulic Hoists; Farm Booster Type Hoists; Hydraulic Lift End Gates (Hydra-Power); Two Wheel Trailers; Hydraulic Front End Loaders; Wagons; Soil Pulverizers; Snow Plows; Crane and Dozer Attachments for Front End Loaders.

DISTRIBUTORS

Dealers in all principal cities.

PETERBILT MOTORS CO. 10700 MacArthur Boulevard Oakland 5, California

PRODUCTS: Heavy Duty Trucks, MacDonald Division; Low Body Trucks; Converter Bodies and Lift Trucks.

FACTORY BRANCH

California San Francisco 757 Folsom St. Mr. Morris, Mgr.

DISTRIBUTORS

California	Fresno	Connell Motor Truck Co., Inc.
"	Los Angeles	Carl N. Frank Truck Sales, Inc.
"	San Jose	Coast Counties Truck & Equipment Co.
"	Stockton	Connell Motor Truck Co., Inc.
Colorado	Denver	Kear Truck & Equipment Co.
Idaho	Boise	Glenn Dick Equipment Co.
New Mexico	Albuquerque	Marthorn 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.

PETTIBONE MULLIKEN CORP. 4700 West Division Street Chicago 51 Illinois

PRODUCTS: Motor Graders; Front End Loaders; Speed Swing Loaders; Yard Cranes; Bucket Conveyor Loaders; Fork and Bucket Loaders; Material Handling Buckets; Clamshell, Dragline, Pushshovel Dippers and Shovel Dippers; Mangnese Steel Castings.

FACTORY BRANCH

California N. Hollywood 6900 Tujunga Ave. Pettibone Wood Mfg. Co.

DISTRICT MANAGERS

California	N. Hollywood	12147 Huston St. C.W. Cedarlette
"	Palo Alto	674 Wellsbury A.E. Ainley
"	Redding	7193 Pitt Rd. N. Anderson
Colorado	Denver	790 Lincoln E.J. Towey

DISTRIBUTORS

Arizona	Phoenix	Arizona Equipment Sales, Inc.
California	Berkeley	West Coast Engine & Equipment Co.
"	Los Angeles	Calaver Corp.
"	Sacramento	Moore Equipment Co., Inc.
"	Stockton	"
Colorado	Denver	Liberty Trucks & Parts Co.
Idaho	Boise	Carl B. Burt Equipment Co.
"	Pocatello	Rocky Mountain Machinery Co.

Continued on next page

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

PETTIBONE MULLIKEN CORP. (Continued)

Montana	Helena	Montana Powder & Equipment Co.
Nevada	Reno	Moore Equipment Co., Inc.
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	Modern Machinery Co., Inc.
	Spokane	" " "
Wyoming	Cheyenne	Mountain Equipment Co.

PETTIBONE WOOD MANUFACTURING CO.
6900 Tujunga Avenue
North Hollywood, California

PRODUCTS: Roadmixers; P-600 Series Preparitizers; Spreader Boxes; Cement Bazookas; Cement Bulklers; Tank Trailers.

DISTRICT REPRESENTATIVE

California	Palo Alto	674 Wellsbury Way	Alex Ainlay
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DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
	Los Angeles	Pettibone Wood Manufacturing Co.
	San Francisco	Bay Cities Equipment Co.
	Stockton	Moore Equipment Co.
Colorado	Denver	H.W. Moore Equipment Co.
Idaho	Boise	Starline Equipment Co.
Montana	Butte	Hall-Perry Machinery Co.
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	P.L. Crooks Co.
Utah	Salt Lake City	Arnold Machinery Co.
Washington	Seattle	Modern Machinery, Inc.
	Spokane	" " "

PIONEER ENGINEERING WORKS, INC.
1515 Central Avenue
Minneapolis 13, Minnesota

PRODUCTS: Feeding, Conveying, Crushing, Screening and Washing Equipment; Bituminous Mixing Plants; Bituminous Pavers.

DISTRICT REPRESENTATIVES

Colorado	Denver	2091 Jasmine St.	Elton T. Fair
Oregon	Portland	2145 N.E. Hancock	Wm. H. Schanpen

DISTRIBUTORS

Arizona	Phoenix	Neill 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.
Montana	Billings	Industrial Equipment Co.
	Great Falls	Normont Equipment Co.
	Kelso	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.

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' and 65'.

DISTRICT REPRESENTATIVE

California	Alhambra	1796 E. Mendocino St.	Bert McMillin
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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 Powder & Equipment Co.
New Mexico	Albuquerque	Winter-Weiss Co.
Oregon	Portland	Loaders & Contractors Machinery Co.
Utah	Salt Lake City	H.H. Nielsen Co.
Washington	Seattle	Star Machinery Co.
	Spokane	" " "
	Seattle	Hatten Machinery Co.

PORTO PUMP, INC.
227 Iron Street
Detroit 7, Michigan

PRODUCTS: The Porto Pump - a rotary rubber gear portable pressure pump used for pressure testing water mains, pressure testing fire sprinkler installations, core and exploratory drilling operations, jetting operations, fire fighting operations and various other applications requiring a portable pressure pump.

DISTRIBUTORS

Alaska	(Seattle)	H.D. Fowler Co., Inc.
Idaho	"	" " " " "
Montana	"	" " " " "
Oregon	"	" " " " "
Washington	Seattle	" " " " "

POWDER POWER TOOL CORP.
7526 S.W. Macadam Ave.
Portland 1, Oregon

PRODUCTS: Powder Actuated Tools and Fasteners.

PRECOC, INC.
6300 East Slauson Avenue
Los Angeles 22, California

PRODUCTS: Back-Rippers; Dozer-Rippers.

DISTRIBUTORS

All Caterpillar Dealers.

THE PRIME-MOVER CO.
Sampson Street
Muscatine, Iowa

PRODUCTS: Prime-Mover; Wheelbarrow Type Dump Hopper of 10 cu.ft. capacity, interchangeable with Platform Body in few seconds; 50-Inch Steel Grader Blade Attachment, gasoline-powered, gear-driven, takes three-quarter ton load.

FACTORY REPRESENTATIVE

Washington	Seattle	8733 4th Pl., N.E.	James A. Dougan
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DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	Culver City	Superior Scaffold Co.
Colorado	Denver	Ray Corson Machinery Co.
Idaho	Boise	The Sawtooth Co.
New Mexico	Albuquerque	J.D. Cogalins Co.
Nevada	Reno	Pioneer Equipment Co.
Oregon	Eugene	Loggers & Contractors Machinery Co.
	Portland	" " "
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Seattle	Universal Equipment Co.
	Spokane	Andrews Equipment Service of Wash., Inc.
Wyoming	(Salt Lake)	Rocky Mountain Machinery Co.

"QUICK-WAY" TRUCK SHOVEL CO.
2401 E. 40th Avenue
Denver, Colorado

PRODUCTS: "Quick-Way" Truck Shovels and Attachments.

FACTORY BRANCHES

California	Los Angeles	1434 Peerless Pl.	T.S. Petersen
Colorado	Denver	153 Balsam St.	D. Wayne Wothers
Washington	Spokane	E. 1507 Rockwell	Tom R. Enquist

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	Fresno	Edward R. Bacon Co.
	Los Angeles	Herron-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.
	Idaho Falls	" " "
	(Salt Lake)	" " "
Montana	Billings	Montana Powder & Equipment Co.
	Helena	" " "
New Mexico	Albuquerque	J.D. Cogalins Co.
Oregon	Portland	Columbia Equipment Co.
Washington	Seattle	" " "
	Spokane	" " "
Wyoming	Casper	Kerem Tractor & Equipment Co.
	Cheyenne	" " "

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

QUINCY COMPRESSOR CO.

304 Maine Street
Quincy, Illinois

PRODUCTS: Air Compressors; Dry Vacuum Pumps.

WEST COAST DISTRIBUTOR - QUINCY COMPRESSOR

California San Francisco 1185 Mission St. Bernard Katz

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Berkeley	Central Equipment Co.
	Fresno	Edward R. Bacon Co.
	Los Angeles	Esslick Manufacturing Co.
	"	Blinks Manufacturing Co.
	"	Sherris Manufacturing Co.
	"	Smith-Booth-Usher Co.
	Modesto	Benson & Zimmerman
	Oakland	J.T. Cline, Quincy Compressor Service
	Redding	Rother Auto Parts
	Sacramento	Franklin Machinery Co.
	"	Western Machinery Co.
	San Francisco	Edward R. Bacon Co.
	"	Blinks 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.

RAMSET FASTENING SYSTEM

Winchester-Western Division
Olin Mathieson Chemical Corp.
12117 Berea Road
Cleveland 11, Ohio

PRODUCTS: Powder Actuated Tools; Fasteners and Powder Charges.

DISTRIBUTORS

Arizona	Phoenix	Thunderbird Sales Corp.
	Tucson	Industrial Tool & Supply Co.
California	Bakersfield	Pioneer Mercantile Co.
	Compton	Crown Pipe & Supply Co.
	"	Thieme Construction Supplies
	Eureka	George C. Jacobs Co.
	Fresno	A.L. Young Machinery Co.
	Indio	Valley Lumber & Supply Co.
	Los Angeles	Andrey Co., Inc.
	"	Mine & Mill Machinery Co.
	"	Moss & Hallock
	Modesto	American Lumber Co.
	Monterey	Peninsula Saw Shop
	Oakland	Haven Saw & Tool Co.
	Sacramento	Rubber Products Co.
	"	Sacramento Machinery Co.
	Salinas	Electric Supply of Salinas
	"	Tynan Lumber Co.
	San Diego	Construction Tool & Supply Co.
	San Francisco	Elder & Co.
	"	Fastco
	"	Hobelman & Co.
	"	A.L. Young Machinery Co.
	San Jose	Power Tool Mart
	Santa Ana	V.B. Anderson Co.
	Stockton	Delta Pipe & Supply Co.
	Ventura	Peoples Lumber Co.
	"	Crow-Garrick Co.
	Whittier	V.B. Anderson Co.
Colorado	Denver	Central Electric Supply Co.
	"	Landes, Zachary & Peterson
	"	M.L. Foss, Inc.
	"	Union Supply Co.
	Grand Junction	Pacific & Western Industrial Supply Co.
	Pueblo	Johnson Electric Co.
	"	Pueblo Electric Supply
Idaho	Boise	Safway Scaffold Co.
	Idaho Falls	Arnold Machinery Co.
	Twin Falls	Mid-State Supply Co.
	Wallace	Sardner Supply Co.
Montana	Billings	Building Specialties Co.
	Butte	Construction Materials Co.
	Havre	Treasure State Supply Co.
	Livingston	Builders Machine Co.
	Missoula	Missoula Mercantile Co.
	"	Hub Electric Supply
Nevada	Reno	Kitchen Electric Supply Co.
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
	"	Landes, Zachary & Peterson
	"	Santa Fe Builders Supply Co.
	Carlsbad	Carlsbad Supply Co.
	Santa Fe	Santa Fe Builders Co.

Continued in next column

RAMSET FASTENING SYSTEM (Continued)

Oregon	Astoria	Fisher Brothers Co.
	Baker	Oregon Lumber Co.
	Coos Bay	W.J. Conrad Lumber Co.
	The Dalles	Stadelmann-Bonn Hardware Co.
	Eugene	John Warren Hardware
	"	T.V. Williams
	Grants Pass	Jack Humrick
	Klamath Falls	Sven Lake Moulding Co.
	Pendleton	Tum-A-Lum Lumber Co.
	Portland	Cascade Distributors, Inc.
	Salem	Valley Welding Supply
Washington	Aberdeen	Grays Harbor Equipment Co.
	Bellingham	J.M. Van Winkle
	Everett	Everett Hardware Co.
	Pasco	Lehi Electric Supply Co.
	Seattle	Cascade Distributors, Inc.
	"	Northern Commercial Co.
	Spokane	Cascade Distributors, Inc.
	"	Harold Bird, Inc.
	Tacoma	Arthur Krum Co.
Wyoming	Yakima	Landes, Zachary & Peterson
	Casper	Wyoming Builders Service Co.
	Cheyenne	Power Builders Supply

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	1424 11th Ave.	George Hundsdoerfer

DISTRIBUTORS

California	Fresno	Allied Equipment Co.
	Los Angeles	Brown-Beris Industrial Equipment 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.
Oregon	Albany	Howard-Cooper Corp.
	Central Point	"
	Coquille	"
	Eugene	"
	New Port	"
	Portland	"
	Roseburg	"
Washington	Seattle	Fremont Electric Co.
	"	Glenn 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.

Blair
Nebraska

PRODUCTS: ELEGRADER - Elevating Grader Attachments for Adams 550-610-660 and Caterpillar No. 12.

DISTRIBUTORS

Alaska	(Seattle)	Glenn Carrington Co.
Arizona	Phoenix	Road Machinery Co.
California	Bakersfield	Crook Company
	Los Angeles	"
	Oakland	Ferguson & Blakemore Machinery Co.
Colorado	Denver	Johnson-Tudor Co.
Idaho	Boise	Western Equipment Co.
Montana	Billings	Industrial Equipment Co.
	"	Western Construction Equipment Co.
Nevada	Great Falls	"
	Reno	Pioneer Equipment Co. of Nevada
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Oregon	Eugene	Loggers & Contractors Machinery Co.
	Portland	"
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Seattle	Modern Machinery Co., Inc.
	Spokane	"

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

REMINGTON ARMS CO., INC.
939 Barnum Avenue
Bridgeport 2, Connecticut

PRODUCTS: Model 455 Remington Stud Driver; Accessory Guards for Anchoring Pre-fabricated Metal Sections; Power Loads; Accessory Fittings (couplings, conduit clips, eye-nuts, cupped washers); Industrial Kilm Gun & Shells.

DISTRICT MANAGERS

California	San Francisco	785 Market St.	D.L.Braun
Oregon	Portland	921 SW Washington	D.N.Wiemer
Utah	Salt Lake City	Walker Bk.Bldg.	D.W.Flannigan

DISTRIBUTORS

Arizona	Phoenix	Waco Scaffolding & Equipment Co.
California	Los Angeles	Nelson Stud Welding
"	"	Waco-May Co.
"	"	Warden Tool Co.
Sacramento	"	"
San Diego	"	"
San Francisco	"	Waco Scaffolding Div., Laurence Myers
"	"	Warden Tool Co.
San Leandro	"	Nelson Stud Welding
Colorado	Colorado Springs	Hendrie & Bolthoff Co.
Denver	"	"
"	"	Nelson Stud Welding
"	"	Waco Scaffolding
Idaho	Grand Junction	The Salt Lake Hardware Co.
"	Boise	General Electric Supply Co.
Montana	Billings	The Salt Lake Hardware Co.
"	"	Billings Hardware Co.
"	"	General Electric Supply Co.
"	"	Marshall-Wells Co.
Butte	"	General Electric Supply Co.
New Mexico	Albuquerque	Lively Equipment Co.
Oregon	Eugene	Woodbury Eugene
"	Medford	Woodbury Medford
"	Portland	Woodbury & Co.
Utah	Salt Lake City	General Electric Supply Co.
"	"	The Salt Lake Hardware Co.
Washington	Seattle	Seattle Hardware Co.
"	Spokane	Jensen-Byrd Co.
Wyoming	Casper	Gibson Welding Supplies, Inc.
"	"	General Electric Supply Co.
"	"	Wyoming Automotive Co.

REO MOTORS, INC.
1331 South Washington
Lansing, Michigan

PRODUCTS: Gas Engines and Trucks.

BRANCH OFFICES

California	Los Angeles	2315 E.Olympic Blvd.	J.M.Fradsham
"	San Francisco	601 Mariposa St.	W.D.Bell
Colorado	Denver	200 W.48th St.	N.W.Isenhart
New Mexico	Albuquerque	2401 4th St.,N.W.	J.H.Bates
Washington	Spokane	1124 N.Freya St.	P.J.Oldershaw

WESTERN REGIONAL MANAGER

California	San Francisco	c/o Reo Motors, Inc.	Wm.F.Sternberg
"	"	601 Mariposa St.	"

Distributors and Dealers in all principal cities

RHEEM AUTOMOTIVE CO.
4951 Alcoa Avenue
Los Angeles 58, California

PRODUCTS: Rheem Beam Highway Guard Rail.

DISTRIBUTORS

Arizona	Phoenix	Arizona Hardware Co.
Colorado	Denver	Colorado Builders Supply Co.
Idaho	Boise	Starline Equipment Co.
Montana	(Denver)	Colorado Builders Supply Co.
Nevada	Sparks	Paul Tholl
New Mexico	(Denver)	Colorado Builders Supply Co.
Oregon	Portland	Contractors Equipment Corp.
Utah	Salt Lake City	C.H.Jones Equipment Co.
Washington	Seattle	Jack Sahberg Equipment Co.
Wyoming	(Denver)	Colorado Builders Supply Co.

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

RICHMOND SCREW ANCHOR CO., INC.
816 Liberty Avenue
Brooklyn 8, New York

PRODUCTS: Engineered Tying Devices; Anchorages and Accessories for Concrete Construction.

REGIONAL MANAGER

California	San Marino	1750 San Marino Ave.	George E.Tupper
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DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
"	Tucson	Ireland Steel & Specialties Co.
California	Bakersfield	Bakersfield Sandstone & Brick Co.
"	Los Angeles	W.J.Burke & Co.
"	Fresno	Healey & Popovich
"	San Francisco	W.J.Burke & Co.
Colorado	Denver	Ray Corson Machinery Co.
Idaho	Boise	Allen Steel Supply Co.
"	Idaho Falls	Max Ker & Son Lumber Co.
Jerome	"	Cinder Products Co.
Montana	Billings	Building Specialties Co.
"	"	Casper Concrete Co.
"	"	Sirup Hardware Co.
Bozeman	"	Empire Building Materials Co.
New Mexico	Albuquerque	Construction Accessories, Inc.
Hobbs	"	Builders Supply, Inc.
Oregon	Portland	W.J.Burke & Co.
"	"	Pacific Building Materials Co.
Utah	Salt Lake City	Gerstner Steel Supply Co.
"	"	Intermountain Concrete Specialties
Washington	Seattle	W.J.Burke & Co.
Vancouver	"	Pacific Building Materials 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 Sandpiper Dredges.

DISTRIBUTORS

Alaska	Fairbanks	Herring Equipment Co.
Colorado	Denver	Power Equipment Co.
Montana	Billings	Industrial Equipment Co.
"	"	Seitz Machinery Co.
Sidney	"	Richland Machinery Co.
Nevada	Reno	Nevada Equipment Service, Inc.
Oregon	Eugene	Loggers & Contractors Machinery Co.
Portland	"	"
Washington	Seattle	A.H.Cox & Co.
"	"	Hulse Machinery Co., Inc.

RODGERS HYDRAULIC, INC.
7401 Walker Street
Minneapolis 26, Minn.

PRODUCTS: Hydraulic Jacks; Hydraulic Pumps; Cylinders; Valves; Couplings; Shop Presses; Forging Presses; Track Presses.

DISTRICT MANAGER

California	San Francisco	4719 Geary St.	Earl P.Holstington
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DISTRIBUTORS

California	Los Angeles	Fornaciari Co.
Colorado	Denver	Mine & Smelter Supply Co.
Idaho	Boise	Intermountain Equipment Co.
Oregon	Portland	Contractors Equipment Corp.
Texas	El Paso	Mine & Smelter Supply Co.
Utah	Salt Lake City	Rasmussen Equipment Co.
Washington	Seattle	Glenn Carrington Co.
"	"	Northern Commercial 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 Cables; Tramways.

FACTORY BRANCHES

California	Los Angeles	Manager	J.C.Barney
"	San Francisco	"	G.C.Bukowsky
Colorado	Denver	"	G.P.Hays
Washington	Seattle	"	A.R.Robinson

Selling the West is an eleven-state job...
WESTERN CONSTRUCTION covers it all!

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

ROGERS BROTHERS CORP. Albion Pennsylvania

PRODUCTS: Loubed 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 & Equipment Co.
	Missoula	Miller Machinery Co.
New Mexico	Albuquerque	J.D. Coagins Co.
Utah	Salt Lake City	Western Machinery Co.
Wyoming	Cheyenne	Cheyenne Truck Equipment 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	FW Pacific Co.
Colorado	Denver	H.W. Moore Equipment Co.
Idaho	Boise	The Starline Equipment Co.
	Idaho Falls	Parkinson Tractor Co.
Montana	Helena	Montana Powder & Equipment Co.
	Missoula	Westmont Tractor & Equipment Co.
Nevada	Reno	Sterra 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.

BOWE MANUFACTURING CO. 614 West Third Street Galesburg, Illinois

PRODUCTS: Ro-Way Overhead Doors and Electric Operators.

DISTRIBUTORS

Arizona	Phoenix	Baker-Thomas-Woolsey, Inc.
California	Los Angeles	M.G. Jencks
Colorado	Colorado Springs	Colorado Overhead Door Co.
	Denver	Colorado Builders Supply Co.
	(Salt Lake)	Alder's
Montana	Billings	Wm. M. Kennedy
	Butte	Archie W. Adams
	Hayward	Treasure State Supply
New Mexico	Albuquerque	Cobusco Steel Products
	Artesia	Jay F. Vandeventer
Utah	Salt Lake City	Alder's
Wyoming	(Denver)	Colorado Builders Supply Co.

R. P. B. CORP. 2751 East 11th Street Los Angeles 23, California

PRODUCTS: Rapid Pavement Breakers.

DISTRIBUTORS

Arizona	Phoenix	Shriver Machinery Co.
California	Oakland	J.H. Wilson Co.
Washington	Seattle	A.H. Cox & Co.

SAFETEE PRODUCTS CO. 173 14th Street San Francisco 3, California

PRODUCTS: Cyclone Sandblast Equipment.

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Berkeley	Central Equipment Co.
	Los Angeles	Morrisey Equipment Co.
	Oakland	Heldt Equipment Co.
	"	Victor Equipment Co.
	Sacramento	Central Equipment Co.
	"	Sacramento Sky Ranch
	"	Victor Equipment Co.
	San Francisco	Maintenance Materials Co.
	"	Victor Equipment Co.
	San Jose	Arnold Bros. & Herrero
Colorado	Denver	Western Machinery Co.
New Mexico	Albuquerque	Big 3 Welding
Oregon	(Seattle)	General Paint Removing Co.
Utah	Salt Lake City	Western Machinery Co.
Washington	Seattle	General Paint Removing Co.

SAFWAY STEEL PRODUCTS, INC. 6228 West State Street Milwaukee 13, Wisconsin

PRODUCTS: Scaffolding; Adjustable Shores; Hoist Towers; Rolling Towers; Swing Sheling; Material Platforms.

FACTORY BRANCHES

California	Los Angeles	5875 Rodeo Rd.	G.R. Garsden, Mgr.
	San Diego	4810 Anno Ave.	M.J. Murphy, Mgr.

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 Ladles, 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

Arizona	Phoenix	Western Machinery Co.
California	San Francisco	Edward R. Bacon Co.
	Los Angeles	Smith-Booth-Usher Co.
	San Diego	Gould Hardware & Machinery 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	Clyde Equipment Co.
	Spokane	Intermountain Equipment Co.

SALYERS EQUIPMENT CO. 728 East Washington Boulevard Los Angeles 21, California

PRODUCTS: Generator Sets - Diesel, Gasoline and Natural Gas Powered.

SANSTORM MANUFACTURING CO. Santa Clara and H Streets Fresno 15, California

PRODUCTS: Sanstorm Pressure Type and Suction Type Blast Cleaning or Sandblast Equipment.

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Los Angeles	Garlinghouse-Fremont Co.
	"	Smith-Booth-Usher Co.
	Oakland	Edward R. Bacon Co.
	Sacramento	"
	"	Moore Equipment Co.
	"	Western Traction Co.
	San Diego	Hudson Equipment Co.
	San Francisco	Edward R. Bacon Co.
	"	Coast Equipment Co.
	Stockton	Moore Equipment Co.
	"	Guntter & Zimmerman Sales Div., Inc.
Colorado	Denver	Western Machinery Co.
Idaho	Boise	Engineering Sales & Service, Inc.
Montana	Billings	Montana Powder & Equipment Co.
	Butte	Hall-Perry Machinery Co.
	Helena	Montana Powder & Equipment Co.
New Mexico	Albuquerque	J.D. Coagins Co.
	"	Contractors Equipment & Supply
Oregon	Portland	LeGrand 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.
	Wenatchee	" " " "

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

SASGEN DERRICK CO.
 3101 Grand Avenue
 Chicago 22, Illinois

PRODUCTS: Derricks; Hoists; Winches; Liftomatics.

SAUERMAN BROS., INC.
 620 South 28th Avenue
 Bellwood, Illinois

 PRODUCTS: Drag Scrapers; Slackline & Tautline Cableways;
 Wire Rope Blocks; Wire Rope & 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.
 Park Street
 Waverly, Iowa

 PRODUCTS: 3/8 cu.yd. 5-6-7-ton Crane Carriers; Crawler and
 Cruiser-mounted Power Cranes; Draglines; Clamshells;
 Trench Hoes; Shovels; Magnets; Grapples and Back-
 fillers; Pile Drivers.

DISTRICT MANAGER

Washington Spokane 2316 Mantlo Blvd. R.A. Otterness

DISTRIBUTORS

Alaska	Anchorage	Yukon Equipment Co.
	Fairbanks	" "
California	Fresno	Moore Equipment Co.
	Los Angeles	Cook Bros. Construction Machinery Co.
	N. Sacramento	Moore Equipment Co.
	Oakland	Bay Cities Equipment Co.
	Redding	Moore Equipment Co.
	San Diego	Shaw Sales & Service Co.
	Stockton	Moore Equipment Co.
Colorado	Denver	McKelvy Machinery Co.
Idaho	Boise	Engineering Sales Service, Inc.
Montana	Billings	Industrial Equipment Co.
	Great Falls	Normont Equipment Co.
Nevada	Elko	A-D Machinery Co.
	Reno	Moore Equipment Co.
Oregon	Medford	Cal-Ore Machinery Co.
	Portland	Wood Tractor Co.
Utah	Salt Lake City	Kimball Equipment Co.
Washington	Seattle	Modern Machinery Co.
	" "	Yukon Equipment Co.
	Spokane	Modern Machinery Co.

SCHRAMM, INC.
 West Chester
 Pennsylvania

 PRODUCTS: Backfill Tampers; Back Hoes; Bucket Loaders; Chain
 Saws; Clay Diggers; Clay Spades; Compressors; Concrete
 Breakers; Crawler Compressors; Demolition Tools; Earth
 Drills; Loaders; Pavement Breakers; Rock Bits; Rock
 Drills; Power Shovels; Snow Plows; Sump Pumps;
 Tampers; Wagon Drills; Pneumotactors; Rotadrills.

FACTORY BRANCHES

California	Los Angeles	846 E. 6th St.	Karl S. Burlie, Mgr.
	San Francisco	1315 Howard St.	Donald M. Thomson, Mgr.

DISTRICT REPRESENTATIVE

Oregon	Portland	2727 SE Union Ave.	Edw. E. Calkins
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DISTRIBUTORS

Arizona	Phoenix	Nell B. McGinnis Co.
California	Corie Madera	North Bay Equipment Co.
	El Cajon	Kroeger Equipment Co.
	Eureka	Eureka Boller 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

Continued in next column

SCHRAMM, INC. (Continued)

California	Redding	Gerlinger Steel & Supply Co.
	Richmond	Bay Equipment Co.
	Riverside	Bramen Dickerson Co., Inc.
	Sacramento	Sacramento Wheel Service
	Salinas	Farmers Mercantile Co.
	San Diego	Hudson Equipment Co.
	San Francisco	Monarch Supply Co.
	" "	Robinson Equipment Co.
	" "	Ridley Co.
	" "	Schramm, Inc.
	Reno	Wade's Equipment Repair
	Van Nuys	Valley Trailer Rentals
	Watsonville	Farmers Mercantile Co.
Colorado	Denver	H.W. Moore Equipment Co.
Idaho	Boise	Western Equipment Co.
Montana	Billings	Montana Powder & Equipment Co.
	Great Falls	" " " "
	Helena	" " " "
	Missoula	" " " "
Nevada	Albuquerque	C.D. Roeder Equipment Co.
New Mexico	Albuquerque	The Merry Cornellus Co.
Oregon	Portland	Contractors Equipment Corp.
Utah	Salt Lake City	Heiner Equipment & Supply Co.
	" " " "	Rasmussen Equipment & Supply Co.
Washington	Seattle	Universal Equipment Co.
	Spokane	General Machinery Co.
Wyoming	Casper	Casper Supply Co.

SCREEN EQUIPMENT CO., INC.
 1754 Walden Avenue
 Buffalo 25, New York

PRODUCTS: Vibrating Screens.

DISTRIBUTORS

California	Oakland	Cheney Machinery Sales & Parts Service
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 Service
Oregon	Portland	Balzer Machinery Co.
Utah	Salt Lake City	National Equipment Co.
Washington	Spokane	Western Machinery Co.
Wyoming	(Billings)	Western Construction Equipment Co.

SEAMAN-ANDWALL CORP.
 305 North 25th Street
 Milwaukee 3, Wisconsin

PRODUCTS: Mixers; Pulverizers and Rollers.

ZONE MANAGERS

Arizona	Mesa	508 N. Robson St.	George Blever
California	San Mateo	606 S. El Camino	Jack Lumley

DISTRIBUTORS

Arizona	Mesa	Lyle E. Trimble, Inc.
California	Bakersfield	Lawless Brothers
	Fresno	Peerless Tractor & Equipment Co.
	Los Angeles	Brown-Bevis Industrial Equipment Co.
	San Francisco	Western Tractor Co.
Colorado	Denver	Liberty Trucks & Parts Co.
Montana	Billings	Industrial Equipment Co.
	Kalispell	Treasure State Equipment Co.
	Great Falls	Normont Equipment Co.
New Mexico	Albuquerque	J.D. Coggins Co.
Utah	Salt Lake City	Western Machinery Co.
Washington	Seattle	Jack Sahlberg Equipment Co.

SELMA TRAILER & MANUFACTURING CO.
 Highway 99 & Highland
 Selma, California

 PRODUCTS: Trailers-Tilt Bed; Equipment Trailers to 10 tons;
 Construction Trailers for Portable Tool Shed;
 Scaffolds; Trap Wagons; Water Tanks; Cement Forms;
 Equipment "Pallets on Wheels".

SHAWNEE MANUFACTURING CO., INC.
 1947 North Topeka Avenue
 Topeka, Kansas

 PRODUCTS: Angle Dozers; Backhoes; Bulldozers; Ditchers; Front
 End Loaders; Trenchers; Trench Hoes; Rear Blades;
 Hydro-Clams; Scrapers.

DISTRIBUTOR

Washington	Spokane	Farm Aid Eqpt. Co.	2932 E. Trent Ave.
(Arizona, California, Colorado, Idaho, Montana, Nevada, Oregon, Utah and Washington)			

WAREHOUSES

California	Gardena	17028 S. Figueroa
Montana	Billings	1st Ave. No. & 15th St.
Utah	Ogden	745 Wall Avenue

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

SHERMAN PRODUCTS, INC.
3200 West 14 Mile Road
Royal Oak, Michigan

PRODUCTS: Power Diggers; Fork Lifts; Front End Loaders.

WESTERN ZONE MANAGER

California San Francisco Box 481 J.W.Greenis

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	(Portland)	Columbia Tractor & Implement 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 Sales
Washington	(Portland)	Columbia Tractor & Implement Co.
Wyoming	(Denver)	McCarty-Sherman Distributing Corp.

SHUNK MANUFACTURING CO.
1460 Auto Avenue
Bucyrus, Ohio

PRODUCTS: Graders; Snow Plows; Sawtooth (serrated); Bulldozer and Scraper Blade Cutting Edges for all makes of road construction and maintenance equipment.

SIMPLICITY ENGINEERING CO.
Oak Street
Durand, Michigan

PRODUCTS: Gyration Screens; Horizontal Screens; Simpli-Flow Two Bearing Screens; Scalpers; Grizzlies; Dewatering Wheels; Oscillating Feeders; Oscillating Conveyors; Grizzly Feeders.

DISTRIBUTORS

Arizona	Phoenix	Arizona Equipment Sales, Inc.
	Prescott	Arizona Mining Supply Corp.
California	Los Angeles	Brown-Bevis Industrial Equipment Co.
	San Francisco	Standard Machinery Co.
Colorado	Denver	Patten Engineering Co.
Idaho	Pocatello	Rocky Mountain Machinery Co.
Montana	Billings	Industrial Equipment Co.
	Kalispell	Treasure State Equipment Co.
	Missoula	"
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	Columbia Equipment Co.
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Seattle	Columbia Equipment Co.
	Spokane	Modern Machinery Co.

SKAGIT STEEL & IRON WORKS
Sedro-Woolley
Washington

PRODUCTS: General Utility Hoists; Winches; Windlasses; Derricks.

SKIL CORPORATION
5033 Elston Avenue
Chicago 30, Illinois

PRODUCTS: Portable Electric & Pneumatic Tools; Saws; Drills; Sanders; Planes; Drivers & Nut Runners; Grinders; Hammers; Sheers.

WESTERN FACTORY BRANCHES

California	Los Angeles	Branch Manager	Paul Jones
	San Francisco	"	Herman Pflug
Colorado	Denver	"	J.Edward Watwood
Oregon	Portland	"	Bert Macomber
Washington	Seattle	"	Hank Linder
	Spokane	"	Byron Hoffman

SKOOKUM CO., INC.
8524 N. Crawford St.
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 fit individual needs. The Skookum-Cooke Cold Flow Press.

FACTORY BRANCH

*British Columbia Vancouver 647 Terminal Ave. Gordon S.Cannem

FACTORY PERSONNEL

Oregon	Portland	8524 North Crawford St.	
		Sales Manager	Ken Wernsing
		Dist.Sales Repr.	Howard Wilson
		"	Dick Lyons

SMITH ENGINEERING WORKS
532 East Capitol Drive
P.O. Box 723
Milwaukee 12, Wisconsin

PRODUCTS: TelSmith Gyrotory Breakers; Jaw Crushers; Gyrasphere Crushers; Intercone Crushers; Roll Crushers; Pulsetors; Vibro-King Screens; Rotary Grizzlies; Hercules & Standard Rotary Screens; Super-Scrubbers; Screw Revashers; Sand Classifiers; Sand Tanks; Sand Drags; Feeders; Apron Feeders; Elevators and Portable Crushing and Screening Plants.

DISTRICT MANAGERS

California	Los Angeles	816 W.5th St.	R.S.Bailey
Oregon	Portland	1631 NW Thurman	J.R.Smith

DISTRIBUTORS

Arizona	Phoenix	Lee Redman Equipment Co.
California	Los Angeles	Essick Machinery Co.
	San Francisco	Mines Engineering & Equipment Co.
Colorado	Denver	Constructors Equipment Co.
Idaho	Boise	The Starline Equipment Co.
Nevada	(San Francisco)	Mines Engineering & Equipment Co.
	(Salt Lake)	Fouler Equipment Co.
Montana	Billings	Westate Machinery Co.
	Helena	Calrd Engineering Works
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Oregon	Portland	Clyde Equipment Co.
Utah	Salt Lake City	Fouler Equipment Co.
Washington	Seattle	Clyde Equipment Co.
	Spokane	General Machinery Co.

GORDON SMITH & CO.
528 College Street
Bowling Green, Kentucky

PRODUCTS: Portable Air Compressors.

WESTERN REPRESENTATIVE

California Whittier 348½ N.Greenleaf Ave. Lee J.Pruess

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.
Washington	Seattle	Hatten Machinery Co.

S. MORGAN SMITH CO.
P.O. Box 712
York, Pennsylvania

PRODUCTS: Hydraulic Turbines; Rotavalves; Ball Valves; Butterfly Valves; Howell-Bunger Valves for free discharge; Leonard Trash Rakes; Gates and Gate Hoists; Adjustable Blade Axial Flow Pumps.

DISTRICT OFFICE

California San Francisco 68 Post St. PH: GA 1-5582

Western District Manager.....Harry A.Doell

SALES REPRESENTATIVES

Arizona	Phoenix	Steel & Engineering Products Co.
California	Los Angeles	Water Works Supply Co.
	"	W.J.Beckett Co.
	San Francisco	Trident Engineering Co.
	"	Water Works Supply Co.
Colorado	Denver	Harry J.Glass & Associates
Oregon	Portland	E.A.Finkbeiner Co.
Utah	Salt Lake City	William Z.Harrison Co.
Washington	Seattle	Instrument Sales & Equipment Co.

THE T. L. SMITH CO.
2835 North 32nd Street
Milwaukee 10, Wisconsin

PRODUCTS: Portable Concrete Mixers; Stationary Tilting Concrete Mixers; Truck Mixers and Agitators.

DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	Los Angeles	Essick Manufacturing Co.
	Oakland	The Brose Co.
	San Diego	Southern Equipment & Supply Co.
Colorado	Denver	Constructors Equipment Co., Inc.
Idaho	Boise	Western Equipment Co.
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.

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

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.
Arizona	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.

FACTORY BRANCH

California	Los Angeles	5955 S. Western Ave.	J.D. Watford, Reg. S.M.
		Production Manager	F.H. Crouch
		Sales Engineer	W.J. Matteson

DISTRIBUTORS

Alaska	(Los Angeles)	Sonoco Products Co. - Factory Branch
Arizona	Phoenix	Baker-Thomas-Woolsey, Inc.
California	Los Angeles	W.J. Burke & Co.
	Sacramento	" " " "
	San Francisco	" " " "
Colorado	Denver	K.C. Construction Supply Co.
Idaho	(Portland)	W.J. Burke & Co. (Northern)
	(Salt Lake)	Intermountain Concrete Spec. (Southern)
Montana	(Seattle)	W.J. Burke & Co. (Western)
	(Denver)	K.C. Construction Supply (Eastern)
Nevada	(Los Angeles)	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.

SOUTHWEST WELDING & MANUFACTURING CO.
 Alhambra
 California

PRODUCTS: Scrapers; Rippers; Sheepfoot Rollers; Bottom-dump Wagons; Compaction Rollers; Sprinkler Tanks.

SPEARS-WELLS MACHINERY CO.
 1832 West Ninth Street
 Oakland 30, 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 Street
 Los Angeles 25, California

PRODUCTS: Truck Cranes; Drills; Hammers; Rock Bits; Rock Drills; Pumps.

DISTRIBUTORS

Alaska	Anchorage	Craig Taylor Equipment Co.
Arizona	Phoenix	D.W. Jacques & Co.
California	Long Beach	Mohave Sales, Inc.
	Los Angeles	Mine & Mill Machinery Co.
	" "	Precision Refrigeration Co.
	San Francisco	C.H. Bull Co.
Colorado	Denver	Denver Machine Shop
	Grand Junction	S & M Supply Co.
Montana	Butte	Butte Machinery Co.
New Mexico	Albuquerque	J.D. Cogals Co.
	" "	Universal Mining & Milling Co.
Oregon	Medford	Cal-Ore Machinery Equipment Co.
Utah	Midvale	Utah Bit & Steel Co.
	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Seattle	Totem Equipment Co.

STANDARD STEEL CORP.
 5001 South Boyle Avenue
 Los Angeles 58, California

PRODUCTS: Asphalt Plants; Aggregate Batching Plants; Cement Batching Plants.

DISTRIBUTORS

California	Belmont	Power Machinery Co.
Colorado	Denver	Feris-Moritz Equipment Co.
Montana	Helena	Calrd Engineering Works
New Mexico	Albuquerque	N.C. Ribble Co.
Oregon	Portland	Contractors Equipment Corp.
Utah	Salt Lake City	The Lang Co.
Washington	Seattle	Washington Machinery Co.

STANDARD STEEL WORKS
 16th & Howell Avenue
 North Kansas City 16, Missouri

PRODUCTS: Bituminous Distributors; Maintenance Distributors; Tar Rollers; Road Brooms; Gravel Spreaders; Street Flushers; Asphalt Supply Tanks; Asphalt Tools; 2 1/2 ton Tandem Rollers.

DISTRIBUTORS

Alaska	Anchorage	Craig Taylor Equipment & 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 Equipment Co.
Nevada	Reno	C.D. Roeder Equipment Co.
New Mexico	Albuquerque	R.L. Harrison Co.
Oregon	Portland	Columbia Equipment Co.
Utah	Salt Lake City	Foulser Equipment Co.
Washington	Seattle	Columbia Equipment Co.
Wyoming	Cheyenne	Kereml 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 BRANCHES

California	San Francisco	145 Mission St.	R.J. Cooper, Sr.
Oregon	Portland	1007 E. Bridge	P.R. Hines
Utah	Salt Lake City	210 W. 33rd St.	Ray Nelson
Washington	Seattle	714 Joseph Vance Bldg.	Dan A. Lyons

STERLING MACHINERY CO.
 1950 Santa Fe Avenue
 Los Angeles 21, 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 and Braden Tractor Co.
California	Bakersfield	Janco Pump & Engineering Co.
	Los Angeles	American Pump Co.
	" "	Peerless Pump Div. Food Mach. & Chem. Corp.
	Oakland	Pacific Pumping Co.
	San Francisco	Charles E. Love 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	Eualce	United Supply & Manufacturing Co.
	Hobbs	" " " "
	Lovington	" " " "
	Portland	Pacific Pumping Co.
	" "	Pump Pipe & Power Co.
Utah	Salt Lake City	Nickerson Pump & Machinery Co., Inc.
Washington	Seattle	Glen Carrington & Co.
	" "	Cascade Machinery Co.
	" "	Modern Machinery Co., Inc.
	" "	Pacific Hoist & Derrick Co.
	Spokane	Modern Machinery Co., Inc.
Wyoming	Sheridan	Sheridan Iron Works, Inc.

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

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

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

STOW MANUFACTURING CO.
 443 State Street
 Binghamton, New York

PRODUCTS: Concrete Vibrators; Concrete Vibrating Screeds;
 Concrete Vibrating Screenshot Packages; Rotary Travels;
 Portable Concrete Grinding Machines & Accessories;
 Flexible Shafts; Flexible Shaft Power 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

DISTRIBUTORS

Arizona	Phoenix	Neil B. McGinnis Co.
California	Los Angeles	H.P. Kinastley Co.
	Sacramento	W.J. Burke & Co.
	San Diego	Acme Tool & Equipment Co.
	San Francisco	A.C. Cope
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.
 8380 Baldwin Street
 Oakland 21, California

PRODUCTS: Rock Crushers (Jaw & Gyratory); Ball Mills; Rod Mills;
 Concentrating Tables; Feeders.

DISTRIBUTORS

Arizona	Phoenix	D.S. Stapley Co.
California	Los Angeles	Garlinghouse-Fremont & Co.
	Oakland	Straub Manufacturing Co.
Colorado	(Oakland)	" " " "
Nevada	"	" " " "
New Mexico	"	" " " "
Oregon	Portland	Contractors Equipment Co.
Utah	Salt Lake City	Lund Machinery Co.
Washington	Seattle	Washington Machinery Co.

SUPERIOR CEMENT TOOL CORP.
 11616 Wright Road
 Lynwood, California

PRODUCTS: Cement Finishing Machines.

DISTRIBUTORS

Arizona	Phoenix	State Tractor & Equipment
	Tucson	" " " "
	Yuma	Yuma Builders Supply
California	Anaheim	Power Tool & Supply
	Fresno	Contractors Equipment & Supply
	Los Angeles	Garlinghouse, Fremont & Co.
	"	Mine & Mill Machinery
	Orange	Roseborough Tool
	San Diego	Gould Hardware & Supply
	San Francisco	George M. Philpott Co.
Colorado	Denver	Universal Co.
Idaho	Boise	Contractors Equipment & Supply
Nevada	Las Vegas	Blystone Equipment Co.
New Mexico	Albuquerque	J.D. Coggins Co.
Utah	Salt Lake City	Contractors Equipment & Supply
Washington	Seattle	Hatten Machinery Co.

SUPERIOR CONCRETE ACCESSORIES, INC.
 4110 Wrightwood Avenue
 Chicago 39, Illinois

PRODUCTS: Snap Ties; Cone Fast Coll 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
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DISTRIBUTORS

Arizona	Phoenix	Building Specialties Supply
California	Los Angeles	Thomas Concrete Accessory Co.
	Sacramento	A.W. Burrows
Idaho	Boise	Western Equipment Co.
	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.

SUPERIOR-LIDGERWOOD-MUNDY CORP.
 1101 John Avenue
 Superior, Wisconsin

PRODUCTS: Hoisting Machinery; Car Pullers.

DISTRIBUTORS

Arizona	Phoenix	Western Machinery Co.
California	Los Angeles	Brown-Sevils Industrial Equipment Co.
	San Francisco	Krogh Pump & Machinery Co.
Colorado	Denver	Western Machinery Co.
Oregon	Portland	Loogers & Contractors Machinery 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 Scaffold; Rolling Scaffolds; Water
 Jacks; Stud Jacks; Material Towers; Jiffy Jacks;
 Trestles, all types.

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.

DISTRIBUTORS

Arizona	Phoenix	Border Products, Inc.
Colorado	Denver	Universal Co.
Oregon	Portland	Concrete Forms, Inc.
Utah	Salt Lake City	Contractors Equipment & Supply Co.
Washington	Seattle	Concrete Forms, Inc.

TALBERT CONSTRUCTION EQUIPMENT CO.
 7950 W. 47th Street
 Lyons, Illinois

PRODUCTS: Removable Gooseneck Low Bed Trailers; Dump Semi-
 Trailers; Pole Trailers; Mobile Crane Mounts.

REPRESENTATIVES

California	Inglewood	240 W. Ivy Ave.	Warth Bros. Fabr. Co.
Colorado	Denver	E. 40th St.	at York Timpte Bros.

DISTRIBUTORS

Arizona	Phoenix	Superior Equipment Co.
California	Inglewood	Warth Bros. Fabricating Co.
Colorado	Denver	Timpte Bros.
Montana	(Denver)	" " " "
New Mexico	Albuquerque	" " " "
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Spokane	General Machinery Co.
Wyoming	(Albuquerque)	Timpte Bros.

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

Good distributors seek equipment lines buyers want — Con-
 sistent advertising in WESTERN CONSTRUCTION Builds
 buyer acceptance and demand!

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

TAMPO MANUFACTURING CO.
 P.O. Box 2340
 San Antonio 6, Texas

PRODUCTS: Pneumatic Tired Rollers, Towed Type and Self-Propelled; Compactors; Tamping Rollers, Sheepsfoot; Buckets, Concrete; Road Brooms; Ready-Mix Batchina 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	Billings	Industrial Equipment Co.
	Great Falls	Normont Equipment Co.
	Kalispell	Treasure State Equipment Co.
New Mexico	Albuquerque	Lively Equipment Co.
Nevada	(San Francisco)	Edward R. Bacon 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 No. 52nd Street
 Omaha 3, Nebraska

PRODUCTS: Bulldozers and Front-End Loaders for Crawler Tractors.

REPRESENTATIVES

Arizona	Phoenix	Box 2406	Overstreet & Kintmonth
California	Los Angeles	501 So. L.A. St.	Allied Equip. Distrib.
	Stockton	1869 W. Rose	J.E. McGinness

TEMPLETON, KENLY & CO.
 16th & Gardner Road
 Broadview, Illinois

PRODUCTS: Simplex Jacks, Mechanical and Hydraulic; Lever Jacks for speedy cap and toe lifting; Screw Jacks for economy; Push and Pull Jacks for assembly and maintenance; Drop Forged Steel Trench and Timber Braces; Hydraulic Jacks for easier cap lifting; 30-100 ton capacity Jenny Center-Hole Hydraulic Pullers self-contained operating; "Remotrol" Hydraulic Pullers with remote controlled Rams and Pumps with models 10 to 600 ton rated capacity; Roll-Toe Foot Lift Hydraulic Jacks.

BRANCH OFFICE

California Los Angeles c/o Wm. S. Pine 1635 E. 22nd St.

WESTERN DISTRICT SALES MANAGER

California Concord 720 Bancroft Rd. W. H. Zepp

DISTRIBUTORS

Arizona	Douglas	Phelps-Dodge Corp.
	Phoenix	Arizona Hardware Co.
	"	Pratt Gilbert Hardware Co.
California	Bakersfield	Hopper Machine Works, Inc.
	Long Beach	American Wholesale Hardware Co.
	Los Angeles	California Hardware Co.
	"	Ducommun Metals & Supply Co.
	"	Fornaciari Co.
	"	Oil Well Supply Co.
	"	Republic Supply Co. of California
	"	J. G. Tucker & Son
	"	Union Hardware & Metals Co.
Sacramento	"	Capital Machine & Welding Works
"	"	L & G Specialties
"	"	Thomson Dlags Co.
San Diego	"	Gould Hardware & Machinery Co.
"	"	Western Metal Supply Co.
San Francisco	"	Edward R. Bacon Co.
"	"	C. H. Bull Co.
"	"	A. J. Glesener Co.
San Leandro	"	Republic Supply Co. of California
Stockton	"	Austin Brothers, Inc.
"	"	Hickinbotham Bros.
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.
	"	Montana Hardware Co.
	"	Westmont Tractor & Equipment Co.
	"	Carl Weissman & Sons, Inc.
Nevada	Reno	Sierra Machinery Co.
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
	"	R. L. Harrison Co., Inc.
	"	J. Korber & Co.
Oregon	Carlsbad	Union Industrial Corp.
	Astoria	Fisher Brothers Co.
	Corvallis	Roesser's Hardware Co.
	Klamath Falls	Lorenz Company

Continued In next column

TEMPLETON, KENLY & CO. (Continued)

Oregon	Portland	J. E. Haseltine & Co.
	"	Nelson Equipment Co.
Utah	Salt Lake City	Industrial Supply Co.
	"	Mine & Smelter Supply Co.
Washington	Seattle	Glenn Carrington Co.
	"	Campbell Industrial Supply Co.
	"	Clyde Equipment Co.
	"	Peterson Wholesale Hardware Co.
	"	Seattle Hardware Co.
	"	Star Machinery Co.
	Spokane	Intermountain Equipment Co.
	"	Towne Equipment Co.
Tacoma	"	Hunt & Moffet Co.
Yakima	"	Yakima Hardware Co.

HYDRAULIC SERVICE STATIONS

California	Los Angeles	Fornaciari Co.
	San Francisco	C. H. Bull Co.
Colorado	Denver	Quinn & McGill Motor Supply Co.
Oregon	Portland	Equipment Service Co.
Utah	Salt Lake City	Wilson's Transport Supply
Washington	Seattle	Universal Repair Shop

THERMOID WESTERN CO.

Nephi
 Utah

PRODUCTS: Conveyor and Elevator Belting; Transmission Belting; V-Belts; Complete Line of Hose; Fittings; Packing; Brake Linings; Molded Products; Tank and Pipe Lining; Specialty Products.

FACTORY BRANCHES

California	Los Angeles	1100 S. Santa Fe Ave.	James L. Peimear
	San Francisco	544 Second St.	William B. Wallace
Oregon	Portland	3939 NW St. Helens Rd.	Ronald "Bud" Olson
Utah	Nephi		Earl H. Dunn

DIVISION SALES MANAGERS

California	Los Angeles	1100 S. Santa Fe Ave.	R. W. Wyman (SW)
	San Francisco	544 Second St.	R. W. Chaffin (NW)

DISTRIBUTORS

Arizona	Phoenix	Garrett Supply Co.
California	Fresno	Bearings Supply Co.
	Sacramento	Capital Machine & Welding Works, Inc.
	San Francisco	George M. Philpott Co.
	"	Standard Machinery Co.
	Stockton	Gunter & Zimmerman Sales Div., Inc.
Colorado	Denver	McCartney-Denver Co.
	Uravan	Homer Woods Supply Co.
Idaho	Boise	Western Bearings, Inc.
	Pocatello	Flaherty Equipment Co.
Montana	Butte	Butte Machinery Co.
Nevada	Fallon	Bernie Spencer Industrial Sales & Serv.
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	James A. Hill Co.

THEW SHOVEL CO.
 Lorain
 Ohio

PRODUCTS: Power Shovels; Draglines; Cranes; Hoes; Clamshells.

DISTRIBUTORS

Arizona	Phoenix	Lee Redman Equipment Co.
California	Los Angeles	Electric Tool & Supply Co.
	San Francisco	Coast Equipment Co.
Colorado	Alamosa	McCoy Company
	Denver	"
	Grand Junction	"
	Sterling	"
Idaho	Boise	Southern Idaho Equipment 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.
	Levison	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	H. H. Nielsen
Washington	Seattle	A. H. Cox & Co.
	Spokane	Andrews Equipment Service
	Tacoma	A. H. Cox & Co.
	Wenatchee	"
Wyoming	Greybull	Nash-Davis Machinery Co.

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

THOR POWER TOOL CO.
175 North State Street
Aurora, Illinois

PRODUCTS: Paving Breakers; Rock Drills; Clay Diggers; Trench Diggers; Backfill Tampers; Wagon Drills; Sump Pumps; Cement Hammers; Associated Mining and Contractors' Tools.

FACTORY BRANCHES

California	Los Angeles	Manager	W.J. Laughlin
	San Francisco	"	E.C. O'Connell
Colorado	Denver	"	C.H. Gabriel
Washington	Seattle	"	R.J. Horrocks

DISTRIBUTORS

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	Western Equipment Co.
	"	The Sawtooth Co.
	Coeur d'Alene	Gardner Supply Co.
Montana	Butte	Butte Machinery Co.
	Great Falls	Central Machinery Co.
	Helena	Montana Powder & Equipment Co.
	Albuquerque	Tractor & Equipment Co.
New Mexico	"	J.D. Coagins Co.
Oregon	Medford	Cal-Ore Machinery Co., Inc.
	Portland	Nelson Equipment Co.
	"	Feenaughy Machinery Co.
Utah	Midvale	Utah Bit & Steel Co.
	Salt Lake City	Western Machinery Co.
Washington	Seattle	A.H. Cox & Co.
	"	Yukon Equipment Co.
Wyoming	Spokane	Western Machinery Co.
	Casper	Casper Supply Co.
	Cheyenne	Worham Machinery Co.

TIMKEN ROLLER BEARING CO.
Canton &
Ohio

PRODUCTS: Tapered Roller Bearings; Removable Rock Bits; Alloy Steel Bars and Billets; Seamless Steel Tubing.

BRANCHES

California	Los Angeles	2727 South Flower St.
	San Francisco	1452 Bush Street
Washington	Seattle	305 Ninth Ave. North

TOWNER MANUFACTURING CO.
2111 West 17th Street
Santa Ana, California

PRODUCTS: Aerialing and Mixing Ploves (Scarl-Ploves); 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	"

TRACTOMOTIVE CORP.
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).

DISTRIBUTORS

Allis-Chalmers Industrial Tractor Dealers and Branches.

TRACTOR SPREADER CO.
630 Terrace Avenue
Hasbrouck Heights, New Jersey

PRODUCTS: "Jersey Spreader"

DISTRIBUTORS

Alaska	Anchorage	Craig Taylor Equipment Co.
California	Santa Rosa	Doug-Lynn Mfg. & Machinery Co.

Selling the West is an eleven-state job ...
WESTERN CONSTRUCTION covers it all!

TRAFFIC EQUIPMENT CO.
2461 South Dahlia Lane
Denver 22, Colorado

PRODUCTS: Steel Traffic Barricades; Steel Construction Barricades; Manhole Guards; Steel Bridge Wins; Flashing Lamp Brackets and Extensions.

DISTRIBUTORS

Colorado	Denver	Macdonald Equipment Co.
	"	Safety Equipment Co.
Utah	Salt Lake City	Contractors Equipment Co.

TRAILMOBILE, INC.
901 Gilman Street
Berkeley, 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 Heegenberger Rd.	Erve Rupert
	Sacramento	510 N. 12th St.	A.W. Smith
	San Francisco	2030 Third St.	Roy Reece

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.
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)	Feenaughy 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	Feenaughy Machinery Co.
Utah	Salt Lake City	Arnold Machinery Co.
Washington	Seattle	Feenaughy Machinery Co.
	Spokane	"
Wyoming	Casper	Kereml Tractor & Equipment Co.
	Cheyenne	"

TRAYLOR ENGINEERING & MANUFACTURING CO.
Tenth & Mill Street
Allentown, Pennsylvania

PRODUCTS: Gyrotory, Jaw and Reduction Crushers; Crushing Rolls; Rod Mills; Ball Mills; Apron & Grizzly Feeders.

FACTORY BRANCH OFFICE

California	San Francisco	55 New Montgomery	D.J. Kramm, Mgr.
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DISTRIBUTORS

Oregon	Portland	Balzer Machinery Co.
Utah	Salt Lake City	National Equipment Co.

TRIUMPH MACHINERY CO.
Willow Grove Street
Hackettstown, New Jersey

PRODUCTS: Hydraulic Driven Highway Mowers; Hydro-Clipper.

DISTRIBUTORS

See your local tractor distributor.

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

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

TRUSCON STEEL DIVISION
Republic Steel Corporation
Youngstown 1, Ohio

PRODUCTS: Steel Windows (all types); Residential Interior Steel Doors; Industrial and Hanger Steel Doors; Metal Lath Products and Accessories; Steel Joists; Steeldock Roofs; Complete Steel Buildings; Concrete Reinforcing Bars; Stresssteel Tensioning Units; Welded Wire Fabric; Steel Poles and Radio Towers.

WESTERN OFFICES

Arizona	Phoenix	221 SE Camelback Rd.	R.A. Johnson, Br. Mar.
California	Los Angeles	5424 Slauson Ave.	N.J. Cavalier, PCM
	San Francisco	16 Beale St.	Hall Waller, Sls. Mar.
Oregon	Portland	2139 N. Kerby Ave.	J.L. Ruth, S.M.
Washington	Seattle	107 W. Harrison St.	Norman Field, S.M.

TUCKER SNO-CAT CORP.
P.O. Box 888
Medford, Oregon

PRODUCTS: Sno-Cats; Sno-Kittens; Sno-Trailers.

DISTRIBUTORS

Colorado	Denver	The H.W. Moore Equipment Co.
California	Los Angeles	Calavar Corp.
	San Francisco	The F.W.D. Pacific Co.
Utah	Salt Lake City	The Lang Co.
Washington	Seattle	Yukon Equipment, Inc.

TURLOCK IRON & MACHINE WORKS
P.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; Two-Speed Transmission; Reverse Gears.

FACTORY BRANCH

California	Los Angeles	2950 Legnis Blvd.	A.W. Belcher, Mgr.
"	"	"	P.R. Olney, Office Mgr.
"	"	"	H.R. Hovson, District Service Repr.

DISTRIBUTORS

Arizona	Phoenix	Arizona Equipment Sales, Inc.
California	Bakersfield	California Truck & Industrial Equip. Co.
	Huntington Park	N.A. D'Arcy Co.
	Los Angeles	Charles W. Carter Co.
	Sacramento	California Equipment Co.
	San Francisco	"
Colorado	Denver	Charles A. Fowler Co.
New Mexico	Hobbs	Industrial Equipment Co.
Oregon	Eugene	Vance Supply Co.
	Portland	Mill-Log Equipment Co.
	"	Hydra-Lines, Inc.
	"	Power Transmission Products
Utah	Salt Lake City	Diesel Electric Service & Supply Co.
Washington	Seattle	Bowers Machine Co.
	"	Chain Gear, Inc.
	Spokane	Bitcoy, Inc.
Wyoming	Casper	Gehring Equipment Co.

ULRICH PRODUCTS CORP.
Roxboro
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 WIRE ROPE CORP.
21st & 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	"	C.D. Schooley

UNIT CRANE & SHOVEL CORP.
6411 West Burnham Street
Milwaukee 14, Wisconsin

PRODUCTS: Cranes; Shovels; Crawler, Mobile and Truck Mounted.

DISTRICT SALES REPRESENTATIVE

California	Sacramento	4440 Cabrillo Way	Herman Combs
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DISTRIBUTORS

Arizona	Phoenix	The O.S. Stapley Co.
California	Fresno	Moore Equipment Co.
	Los Angeles	Brown-Bevis Industrial Equipment Co.
	N. Sacramento	Moore Equipment Co.
	Oakland	Bay Cities Equipment, Inc.
	Redding	Moore Equipment Co., Inc.
	Stockton	"
Colorado	Denver	Air Rentals, Inc.
Montana	Billings	Seltz Machinery Co., Inc.
	Great Falls	"
Nevada	Reno	Moore Equipment Co., Inc.
Oregon	Portland	Manitou Equipment Co.
Utah	Salt Lake City	Rasmussen Equipment & Supply Co.
Washington	Seattle	C.H. Bell Equipment Co.
	Spokane	Inland Diesel & Machinery Co.

UNIT MANUFACTURING CO.
1229 Harmon Street
Minneapolis 3, Minnesota

PRODUCTS: Hydraulic Cylinders; Unit Utility Hoists and "3 in 1" Lifts.

UNIVERSAL ENGINEERING CORP.
624 C Avenue N.W.
Cedar Rapids, Iowa

PRODUCTS: Portable, Semi-Portable, Stationary Crushing-Screening-Washing and Loading Equipment for Rock, Gravel, Sand and Aglime; Ore Crushing and Handling Equipment; Asphalt Plants.

DISTRICT REPRESENTATIVES

California	N. Hollywood	12147 Huston St.	Claude W. Cadarette
	Palo Alto	674 Wellsbury Way	Alex Ainsley
Colorado	Denver		E.J. Towey

DISTRIBUTORS

Arizona	Phoenix	Arizona Aggregates
California	Fresno	Moore Equipment Co., Inc.
	Los Angeles	Calavar Corporation
	Redding	Moore Equipment Co.
	Sacramento	"
	San Francisco	West Coast Engine & Equipment Co.
	Stockton	Moore Equipment Co.
Colorado	Denver	Western Machinery Co.
Idaho	Boise	Carl R. Burf Co.
Montana	Helena	Montana Power & Equipment
Nevada	Reno	Moore Equipment Co.
New Mexico	Albuquerque	Harry Cornelius Co.
Oregon	Portland	Balzer Machinery Co.
Utah	Salt Lake City	Rocky Mountain Machinery Co.
Washington	Seattle	Modern Machinery Co.
	Spokane	"
Wyoming	Cheyenne	Mountain Equipment Co.

UNIVERSAL FORM CLAMP CO.
1238 North Kostner Avenue
Chicago 51, Illinois

PRODUCTS: Uni-Form Panels; Spirolac Form Ties; Twistive Form Ties; Form Clamps; Anchoring Devices; Reinforcing Bar Supports.

FACTORY BRANCHES

California	Los Angeles	Manager	Richard Allen
	San Leandro	"	"

DISTRIBUTORS

Arizona	Phoenix	Superior Equipment Co.
Colorado	Denver	K.C. Construction Supply Co.
Oregon	Portland	McCracken-Ripley Co.
Washington	Seattle	Universal Equipment Co.
	Spokane	Construction Equipment Co.

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

UNIVERSAL MANUFACTURING CORP.

West New Castle
Zelienople, Pennsylvania

PRODUCTS: Ezebilt Steel Panel Scaffolding and Scaffold-form 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 No. 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: Battery Chargers and Generator Sets, Gasoline Engine Driven; Light and Power Plants, Diesel Engine Driven.

DISTRIBUTORS

California	Los Angeles	Fornaciari Co.
	"	Shepherd Marine
	San Diego	"
	San Francisco	Thomas A. Short Co.
Oregon	Coos Bay	Elfoings Marine & Builders Supplies
	Portland	Lee McCuddy's Columbia Marine, Inc.
Washington	Seattle	Pacific Marine Supply Co.

UTILITY TRAILER MANUFACTURING CO.

3900 Medford Street
Los Angeles 39, California

PRODUCTS: #77 Dump Trailers; #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 & Equipment Co.
Washington	Seattle	Transport Trailer & Equipment Co.
	Spokane	Alloy Manufacturing Co.

VERMEER MANUFACTURING CO.

Box 188
Pella, Iowa

PRODUCTS: Ditching Machines.

DISTRIBUTORS

Arizona	Phoenix	O.S. Stapley Co.
California	Alhambra	Jeico, Inc.
Washington	Seattle	Hulse Machinery

VIBRO CO.

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.

VIBRO-PLUS PRODUCTS, INC.

54-11 Queens Boulevard
Woodside 77, New York

PRODUCTS: Concrete Vibrators; Vibrating Feeders; Vibratory Soil Compactors.

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

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 Helmenann	Manager
	Sacramento	Richard Labagh	"
	San Diego	Herb Maynard	"
	Ventura	R.J. Campbell	"
	Stockton	Neal Holmes	"

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.
	Poplar	Poplar Supply Co.
Nevada	Elko	A-D Machinery Co.
	Fallon	Motor Supply Co.
	Reno	Nevada Rental Sales Co.
	"	Sierra Oxygen Co.
New Mexico	Albuquerque	Industrial Supply Co.
Oregon	Eugene	Eugene Welders Supply Co.
	Medford	J.E. Hazeltine & Co.
	Portland	Industrial Air Products
	"	"
	"	J.E. Hazeltine & Co.
Utah	Salt Lake City	The Gallagher 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	"
	World	World Oxygen Co.

VULCAN FOUNDRY CO.

4401 San Leandro Street
Oakland 1, California

PRODUCTS: Tamping and Sheepfoot Rollers; Traffic Lane Markers; Valves; Ditcher Holders and Teeth; Ripper Wear Boots; Wear and Abrasive Resistant Castings.

DISTRIBUTORS

California	Alhambra	Southwest Welding & Manufacturing Co.
	Berkeley	Hawkins & Hawkins
	Los Angeles	Westrac Co.
	Oakland	Buren Equipment Co.
	Richmond	Southwest Welding & Manufacturing Co.
	San Francisco	Chas. M. Bailey Co.

VULCAN IRON WORKS, INC.

327 North Bell Avenue
Chicago 12, Illinois

PRODUCTS: Steam or Air Operated Pile Hammers; Drop Pile Hammers; Steam or Air Operated Pile Extractors; Pile Driving Accessories.

DISTRIBUTORS

Arizona	(Salt Lake)	The Gallagher Co.
California	Los Angeles	Harron, Rickard & McCone Co.
	San Francisco	Coast Equipment Co.
Colorado	Denver	Hendrie & Bolthoff Co.
Idaho	(Salt Lake)	The Gallagher Co.
Nevada	"	"
New Mexico	Albuquerque	Hendrie & Bolthoff Co.
Oregon	Portland	Balzer Machinery Co.
Utah	Salt Lake City	The Gallagher Co.
Washington	Seattle	A.H. Cox & Co.
Wyoming	(Denver)	Hendrie & Bolthoff Co.

WESTERN CONSTRUCTION is first choice of equipment
manufacturers — first choice is built into WC!

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

WAGNER IRON WORKS

1905 South First Street
Milwaukee 1, Wisconsin

WESTERN REGIONAL MANAGER

California Oakland 656 - 31st St. Don E. Techel

DISTRIBUTORS

California	Anaheim	Allied Equipment Distributors
	Los Angeles	Hight-Thompson, Inc.
	Oakland	H.E. Linney Co.
	Richmond	Pacific Tractor & Implement Co.
Colorado	Denver	McCarty-Sherman Distributing Co.
		Hill Farm Machinery Co.
Montana	Billings	Seltz Distributing Co.
Oregon	Portland	Independent Distributors
Utah	Salt Lake City	Intermountain Ford Tractor Sales Co.

WALTER MOTOR TRUCK

1001 Irving Avenue
Ridgewood, L.I. 27, New York

PRODUCTS: Four-Wheel Drive Trucks; Wrecker and Utility Trucks; Snow Plow Trucks; Tractor Trucks; Dump Trucks.

DISTRIBUTORS

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 Highway South
Seattle 88, Washington

PRODUCTS: Conversion for 4 Wd. Vehicles - Willys, Dodge, G.M.C., Land Rover and International.

DISTRIBUTORS

Alaska	(Seattle)	Wilcox Willys Co.
Arizona	Phoenix	Auto Safety House
	"	Ray Korte Kaiser-Willys
California	Emeryville	Willys Motors, Inc.
	Los Angeles	Ray Hammel, Inc.
	"	Lambert Company
Colorado	San Leandro	C & C Trailer Body Co.
	Denver	Thomas Hyer Motor Co.
	"	Kurtland Motors
Idaho	Boise	Gem State Motors
Montana	Billings	George H. Pierce, Inc.
	Great Falls	H.C.L. Equipment Co.
	"	Robinson Motors
New Mexico	Albuquerque	A. Ray Barker Co.
Oregon	Portland	Anderson Willys
	"	Pacific Body Builders
Utah	Salt Lake City	Kaiser-Willys Intermountain
Washington	Seattle	Wilcox Willys
	Spokane	Critzer Equipment Co.

WARSON POWER TOOLS, INC.

P.O. Box 168
Danbury, Connecticut

PRODUCTS: Portable Gasoline Breakers; Portable Rock Drills and Gasoline Operated Rammers.

WAUKESHA MOTOR CO.

1001 West St. Paul Avenue
Waukesha, Wisconsin

PRODUCTS: Gas, Gasoline and Diesel Engines and Power Units.

FACTORY BRANCH

California Los Angeles Manager A.G. Mulkey

DISTRIBUTORS

Arizona	Phoenix	Waukesha SW Engine-Parts Mfg. Co.
California	Emeryville	Waukesha Pacific Equipment Co.
	Eureka	B & S Supply Co.
	Los Angeles	Fralzer Wright Co.
Colorado	Denver	Waukesha Engine & Equipment Co.
Idaho	Boise	D.N. Nordling Parts Co.
Montana	Billings	Hines-Bearinas & Ind. Supply Co. (Sub Dir)
New Mexico	Hobbs	Waukesha Sales & Service, Inc.
	Farmington	Waukesha Engine & Equipment, Inc.
Oregon	Portland	Truck & Industrial Equipment Co.
Utah	Salt Lake City	Koepsel and Loye, 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)	Glen 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	Feenaughy Machinery Co.
	Idaho Falls	Southern Idaho Equipment Co.
Montana	Helena	Steffeck Equipment Co.
Nevada	Reno	General Equipment Co.
New Mexico	Albuquerque	I.D. Connors Co.
	"	N.C. Ribble Co.
	Las Cruces	The Myers Co.
Oregon	Portland	Feenaughy Machinery Co.
Washington	Seattle	" " "
	Spokane	" " "
Wyoming	Casper	Studer Tractor & Equipment Co.

WAYER IMPACTOR, INC.

168 Hosack Street
Columbus 7, Ohio

PRODUCTS: Model D-25 Impactor.

WAYNE MANUFACTURING CO.

1201 East Lexington Street
Pomona, California

PRODUCTS: Street Sweepers; Industrial Power Sweepers.

REPRESENTATIVE

California Palo Alto 1590 Dana Ave. Robert E. Spear

DISTRIBUTORS - STREET SWEEPERS

Arizona	Phoenix	Road Machinery Co.
California	Fresno	Orendorff Equipment Co.
	Los Angeles	Brown-Beyls Industrial Equipment Co.
	San Francisco	Western Tractor Co.
Colorado	Denver	Ray Corson Machinery Co.
Idaho	Boise	Feenaughy Machinery Co.
Montana	Billings	Industrial Equipment Co.
	Great Falls	Norfont Equipment Co.
	Kalispell	Treasure State Equipment Co.
Nevada	Reno	General Equipment Co.
New Mexico	Albuquerque	J.D. Coggins Co.
Oregon	Portland	Feenaughy Machinery Co.
Utah	Salt Lake City	Rocky Mountain Machinery Co.

DISTRIBUTORS - INDUSTRIAL POWER SWEEPERS

Arizona	Phoenix	Road Machinery Co.
California	Eureka	Eureka Boiler Works, Clark Ross Div.
	Fresno	Orendorff Equipment Co.
	Los Angeles	R. J. Lison Co.
	Oakland	Godman Machinery Corp.
	San Diego	Brown-Beyls Industrial Equipment Co.
Colorado	Denver	Joe Coursey Equipment Co., Inc.
Nevada	Las Vegas	Brown-Beyls Industrial Equipment Co.
	Reno	General Equipment Co.
Oregon	Portland	Ivan W. Lee & Sons
Washington	Seattle	" " " " "

THE S. K. WELLMAN CO.

200 Egbert Road
Bedford, Ohio

PRODUCTS: Velvetouch All-Metal Clutch Plates; Facinas and Brake Linings for Automotive, Tractor and Industrial Equipment.

FACTORY BRANCHES

California	San Francisco	424 Bryant St.	J.S. Mitchell, Mgr.
	Los Angeles	240 W. 21st St.	
Oregon	Portland	636 NW 16th Ave.	

WESTERN DISTRICT MANAGER

California Los Angeles 240 W. 21st St. G.O. Abell

The WC HANDBOOK 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

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	McGow 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	Lang Company
Washington	Seattle	Clyde Equipment Co.
	Spokane	Construction Equipment Co.

WEST COAST MACHINERY, INC. 1801 E. Charter St. Stockton, California

PRODUCTS: Road and Farm Machinery; Lift Trucks; Orchard Ridoers; Disc Harrows; Bulldozers; Tilt-graders; Anglegraders; Power Control Units; Electric Cars (Golf, Pickup, Trailer).

DISTRIBUTORS

California	Fresno	Moore Equipment Co., Inc.
	N. Sacramento	" "
	Oakland	Bav Cities Equipment, Inc.
	Redding	Moore Equipment Co., Inc.
	Stockton	" "
Montana	Kalispell	Mountain Tractor Co.
	Missoula	" "
Nevada	Reno	Moore Equipment Co.
Washington	Seattle	Star Machinery Co.

WESTFALL AUTOMATIC TAGLINE 345 East Second Street Los Angeles 12, California

PRODUCTS: Taglines.

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-Copper Corp.
	Portland	" "
Utah	Salt Lake City	The Lang Co.
Washington	Seattle	Howard-Cooper Corp.
	Spokane	Intermountain Equipment Co.

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 2000 HP.

FACTORY BRANCHES

Alaska	Ketchikan	900 Water St.	Ralph J. Peters
California	Terminal Island	1048 S. Seaside	J.A. Flynn
Oregon	Astoria	131 Seventh St.	E.F. Olson
	Portland	237 SE Union Ave.	C.H. Gaudy
Washington	Seattle	Fishermen's Term.	F.G. Hudson
Wyoming	Casper	154 N. Beach St.	J.D. Stewart

REGIONAL MANAGER

California	Oakland	610 16th St.	David Ury
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DISTRIBUTORS

Arizona	Phoenix	Arizona Engine & Pump Co.
California	San Diego	National Shipbuilding & Steel Co.

THE WHITE MOTOR CO. 842 East 79th Street Cleveland 1, Ohio

PRODUCTS: White Motor Trucks and Busses, Gasoline and Diesel; White Industrial Engines; Autocar Trucks, Gasoline and Diesel.

FACTORY BRANCHES

California	Los Angeles	411 E. Washington	W.L. Henry, Mgr.
	San Francisco	590 Brannan	H.P. Strother, Mgr.
Colorado	Denver	1910 - 38th St.	R.W. Cochran, Mgr.
Oregon	Portland	2705 N.W. Nicolai	H.D. Collins, Mgr.

PACIFIC COAST REGIONAL OFFICE

California	San Francisco	590 Brannan St.	W.D. Patterson, Reg. Mgr.
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DISTRIBUTORS

Alaska	Anchorage	Anchorage Motors
	Fairbanks	Fairbanks Motors
Arizona	Kingman	Williamson & Ireland
	Phoenix	Truck Equipment Co.
	Willcox	86 Truck Stop
	Yuma	Cooper's Tractor & Garage
California	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. Boliano
	Redding	William A. Byrnie
	Riverside	Briggs & Elliott
	Sacramento	White Truck & Equipment Co.
	San Diego	J.R. Townsend Co.
	San Jose	San Jose Autocar White Co.
	Santa Rosa	The Miller Motor Co.
	Stockton	Garvey Truck Service
	Woodland	Ochoa Bros.
Colorado	Grand Junction	W.R. Hall Sales & Service
Idaho	Boise	Boise White Truck & Equipment Co.
	Lewiston	Henderson Motors
	Roberts	Jackson Auto Service
Montana	Billings	Billings White Truck
	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 Motor Co.
Nevada	Reno	General Equipment Co.
Oregon	Albany	Oregon Truck Sales, Inc.
	Coos Bay	Hirshor Diesel & Supply
	Eugene	Gunderson Bros. Engineering Co.
	Medford	Witham Parts & Equipment Co.
Utah	Cedar City	Jones Crawford Motor Co.
	Loona	Transport Motor Co., Inc.
	Salt Lake City	Lindner & Wood White Motor Sales
Washington	Bellingham	Arnett White Truck Sales
	Pasco	Thompson Truck Service
	Port Angeles	Tower Service & Equipment Co.
	Raymond	Ed Pederson Sales & Service
	Seattle	Fageol Motors, Inc.
	"	Northern Commercial Co.
	Spokane	Jones White Truck Co.
	Vancouver	McCoy Auto Co.
Wyoming	Casper	Century White Truck Co., Inc.
	Framie	Diamond Horseshoe
	Newcastle	Newcastle Equipment Co.
	Worland	H & S Motor Co.

WHITEMAN MANUFACTURING CO. 3249 Casitas Avenue Los Angeles 39, California

PRODUCTS: Concrete Finishing Machines; Screeding Machines; Vibrators; Power Buggies; Grinders; Vibratory Screeds; Truck Mixers; Tamperers; Sreed Stakes.

DISTRIBUTORS

Alaska	Anchorage	Yukon Equipment Co.
Arizona	Phoenix	Baker Thomas Lime & Cement Co.
California	El Centro	W-K Equipment Co.
	Los Angeles	Brown-Bevis Industrial Equipment Co.
	"	Electric Tool & Supply Co.
	"	Essick Machinery Co.
	"	Garlinhouse Bros.
	"	Gridley Equipment Co.
	"	Smith-Booth-Usher Co.
	Porterville	Porterville Farm Implement Co.
	San Bernardino	W-K Equipment Co.
	San Francisco	Edward R. Bacon Co.
	"	W.J. Burke Co.
	San Diego	Southern Equipment & Supply 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.

Continued on next page

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

WHITEMAN MANUFACTURING CO. (Continued)

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.
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.
	Spokane	"
Wyoming	Casper	Kereml Tractor & Equipment Co.
	Cheyenne	"

WILLARD CONCRETE MACHINERY SALES CO.

11700 Wright Road
Lynwood, California

PRODUCTS: Transit Mixers; Batch Plants; Conveyors.

DISTRIBUTORS

Arizona	Phoenix	Arizona Equipment Sales Co.
California	Berkeley	Work Holst & Body Corp.
Colorado	Denver	Accessory Supply Co.
Montana	Great Falls	Western Construction Equipment Co.
Nevada	Reno	Sierra Machinery Co.
Utah	Salt Lake City	Lund Machinery Co.
Washington	Spokane	Spokane Machinery Co.

WILSON ENGINEERING CO.

915 Meridian Avenue
South Pasadena, 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: Air-Cooled Engines.

DISTRIBUTORS

Arizona	Phoenix	Prett-Gilbert Hardware Co.
California	Emeryville	E.E. Richter & Son, Inc.
	Los Angeles	Continental Sales & Service Co.
Colorado	Denver	Central Auto Electric Co.
Idaho	Idaho Falls	Arnold Machinery Co., Inc.
	(Portland)	Andersen Machinery
	(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	Andersen Machinery
Utah	Salt Lake City	Arnold Machinery Co., Inc.
Washington	Seattle	Star Machinery Co.
	Spokane	"
	(Portland)	Andersen Machinery
Wyoming	(Billings)	Midland Implement Co., Inc.
	(Denver)	Central Auto Electric Co.
	(Salt Lake)	Arnold Machinery Co., Inc.

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magazine west of New York!

WOOLDRIDGE MANUFACTURING DIVISION

Continental Copper & Steel Industries, Inc.
Hendy Avenue
Sunnyvale, California

PRODUCTS: Self-propelled Scrapers; Rippers; Tractor-drawn Scrapers; Bulldozers; Hauling Wagons; Angling Dozers; Power Control Units.

DISTRIBUTORS

Arizona	Phoenix	Shrver Machinery Co.
California	Fresno	Peerless Tractor & Equipment Co.
	(Medford)	Cal-Ore Machinery Co., Inc.
	Modesto	Stanislaus Implement & Hardware Co.
	Redding	Louvy Equipment Co., Inc.
	San Diego	Hudson Equipment Co.
	Stockton	Stockton Iron Works
Colorado	Denver	Mckelvy Machinery Co.
Nevada	Reno	Jenkins & Albright
New Mexico	Albuquerque	Leonard Motors Co., Inc.
Oregon	Medford	Cal-Ore Machinery Co., Inc.
Washington	Seattle	Washington Machinery Co.
	Spokane	Inland Diesel & Machinery Co.

WORTHINGTON CORP.

Construction Equipment Div.
Plainfield, New Jersey

PRODUCTS: Agitators; Backfill Tampers; Clay Diggers; Concrete Mixers; Paving Breakers; Compressors; Air Tools; Truck Mixers; Pavers; Pneumatic Placers; Rock Drills; Wagon Drills; Triplex Tampers; Construction Pumps.

REGIONAL SUPERVISORS

California	Los Angeles	5075 Santa Fe Ave.	W.F. Martin
	San Francisco	224 Townsend St.	A.C. Cartwright
Utah	Salt Lake City	118 Motor Ave.	P.E. Wilson
Washington	Seattle	2616 Western Ave.	C.W. Croney

DISTRIBUTORS

Arizona	Phoenix	Lee Redman Equipment Co.
California	Bakersfield	Inland Equipment Co.
	Berkeley	West Coast Engine & Equipment Co.
	Fresno	Reynolds Equipment Co.
	Los Angeles	Orr In W. Fox
	Oakland	Mixmobile Sales & Service (Mixers)
	Sacramento	Island Equipment Co.
	Stockton	Equipment Sales & Service Co.
Colorado	Denver	Power Equipment Co.
Idaho	Pocatello	Rocky Mountain Machinery Co.
Montana	Helena	Calrd Engineering Works
	Missoula	Miller Machinery Co.
Nevada	Elko	A-D Machinery Co.
New Mexico	Albuquerque	Leonard Motor 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	Star Machinery Co.
	Spokane	"
Wyoming	Casper	Kereml Tractor & Equipment Co.
	Cheyenne	"

WRIGHT POWER SAW & TOOL CORP.

410 South Third Street
Louisville 2, Kentucky

PRODUCTS: Gasoline Wright Saws; Pneumatic Wright Saws; Wright Oilers.

DISTRIBUTORS

Alaska	Anchorage	Craig Taylor Equipment Supply
Arizona	Phoenix	Shrver 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	Butte	Hall-Perry Machinery Co.
	Great Falls	"
New Mexico	Albuquerque	Contractors Equipment & Supply Co.
Oregon	Portland	Cramer Machinery Co.
Utah	Salt Lake City	Cate Equipment Co.
Washington	Seattle	Star Machinery Co.

WYLIE MANUFACTURING CO., INC.

P. O. Box 7086
Oklahoma City, Oklahoma

PRODUCTS: Asphalt Maintenance Equipment; Patchmobile - Portable Hot Asphalt Plant; Heat-A-Mix - Tellite Mixer.

WESTERN REPRESENTATIVE

Oregon	Portland	1136 NE 114th St. Ted Henry
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DISTRIBUTORS

Arizona	Phoenix	Equipment Sales Co.
California	Berkeley	West Coast Engine & Equip. Co. (Northern)
	Los Angeles	Essick Machinery Co. (Southern)
	Sacramento	Island Equipment Co.
	Stockton	Equipment Sales & Service
Colorado	Denver	Western Machinery Co.
Idaho	Boise	Feenbaugh Machinery 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	"

YUBA MANUFACTURING CO.
351 California Street
San Francisco 4, California

PRODUCTS: Internal Drive Head Pulleys; Dredges (Bucket Ladder and Hydraulic); Stockton-Yubabill Clamshell Buckets; Screens; Conveyors; Hoists.

DISTRIBUTORS

Arizona	Phoenix	Arizona Cedar Rapids Co.
California	Alhambra	Frank Cox Equipment Co.
	Los Angeles	Brown-Berls Industrial Equipment 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 - Slant, Gulde and Fence Posts; Culvert Markers and Reflector Units - Complete Units for Highway, Street and Traffic Lane Marking; Baked Enamel Highway, Traffic and Safety Signs, Scotchlite Reflectorized ("Supergloss" Baked Enamel).

DISTRIBUTORS

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construction
market
is a rugged
11-state job...*



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good
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Equitable Building, Portland

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*the two natural regions of the
national construction market*



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DISTRIBUTORS' SECTION

CONTAINS . . .

Names of Distributors arranged by states and cities, with their addresses, personnel, phone numbers, branch offices, and lines handled. Separate listings for branch offices of distributors with addresses, phone numbers and branch personnel.

ALASKA CUMMINS DIESEL, INC. (Branch).....ANCHORAGE
3215 East 5th PH: 6-1455

Manager.....Dale Ungerecht

SEE MAIN OFFICE LISTING UNDER SEATTLE

ALASKA CUMMINS DIESEL, INC. (Branch).....KETCHIKAN
1405 Tongass PH: 2755

Manager.....Don Nefztger

SEE MAIN OFFICE LISTING UNDER SEATTLE

CRAIG TAYLOR EQUIPMENT & SUPPLY CO.....ANCHORAGE
322 Concrete Ave. PH: 6-5815

President.....Craig Taylor
Parts Manager...David Taylor

Sales Manager...Craig Taylor
Service Manager..Harold R. Miller

LINES HANDLED

Albin Manufacturing Co.
Alloy Steel & Metals Co.
American Rubber Manufacturing Co.
Barnes Manufacturing Co.
Cataphote Corporation
Champion Manufacturing Co.
Chaussee Manufacturing Co.
Coffing Holst Co.
Diamond Iron Works
Flexible Steel Lacing Co.
Earle M. Jorgensen Co.
Gallon Iron Works
Good Roads Machinery Co.
Hose Accessories Co.
LeRoi Company
Lillengreen & Co.
Link-Belt Speeder Corp.
Madsen Iron Works
Master Vibrator Co.

Metal Forms Corp.
Mixermobile Manufacturers
Muller Manufacturing Co.
N.P. Nelson Iron Works
Pacific Wire Works
"Quick-Way" Truck Shovel Co.
Rust-Oleum Corp.
Schramm, Inc.
Standard Steel Works
Timken Roller Bearing Co.
Toledo Pressed Steel Co.
Tractor Spreader Co.
Transport Trailers, Inc.
Vibro-Plus Products, Inc.
Weyer Impactors, Inc.
Winslow Govt. Std. Scale Works
Wire Rope Corp. of America
Wright Power Saw & Tool Corp.
X-L-O Roller Corp.
Young Iron Works

GLENN CARRINGTON & CO.....SEATTLE
91 Columbia St. PH: MA 0804

President.....Glenn Carrington Vice President...A.F. Erickson

BRANCH OFFICES

Fairbanks, Alaska N. Turner St. G.A. Gustafson, Mgr. PH: 2181
Office Mgr. V.P. Guzzardi

Anchorage, Alaska Parts Manager J.H. Chendler
McKinley Apts. C.E. Kiger, Mgr. PH: 2-1945

LINES HANDLED

J.D. Adams Manufacturing Co.
Barber-Greene Co.
Berco Manufacturing Co.
Buda Company
Clayton Manufacturing Co.
Cleaver-Brooks Co.
Columbia-Geneva Steel Div.
Construction Machinery Co.
Gardley Manufacturing Co.
Delta Manufacturing Co.
Dempster Brothers
Eagle Iron Works
Elmco Corporation
Electric Steel Foundry Co.
E.D. Etnyre & Co.
Fairbanks, Morse & Co.
Four Wheel Drive Auto Co.
Goodman Manufacturing Co.
Grondler Crusher & Pulv. Co.
Hernischfeger Corp.
The Heil Company
Highway Equipment Co., Inc.

Frank G. Hough Co.
Ingersoll-Rand Co.
International Harvester Co.
Isaacson Iron Works
Jacuzzi Manufacturing Co.
H.C. Little Co.
Mail Tool Co.
Maxon Construction Co.
Palmer Electric Mfg. Co.
The Ready Power Co.
Rodgers Hydraulic Co.
Salem Tool Co.
Sasgen Derrick Co.
Silent Glow Oil Burner Corp.
Simplicity Engineering Co.
Smith Engineering Works
Sterling Machinery Co.
Templeton-Kenly Corp.
U.S. Rubber Co.
Wauveau Iron Works
Wayne Manufacturing Co.
Wisconsin Engine Co.
Young Iron Works

NORTHERN COMMERCIAL CO.....SEATTLE
811 First Ave. PH: MU 2300

President.....Volney Richmond, Jr. Vice President..H.D. Stephens
Secy-Treasurer...John E. Larson Mar. Mach. Dept.. Truman Sage
Parts Manager...Wm. M. (Pat) Bell Service Mgr....John R. Heagren

BRANCH OFFICES

Anchorage	Manager	C.F. Beshaw	PH: 3-5051
Fairbanks	"	Graig Gilkey	PH: 2176
Juneau	"	E.G. Whitehead	PH: 867
Ketchikan	"	M.S. Roe	PH: 9724
Nome	"	Steve Andersen	PH: Main 22

LINES HANDLED

Athey Products Corp.
Blackhawk Manufacturing Co.
Blaw-Knox Company
Broderick & Bascom Rope Co.
Buoyrus-Erie Co.
Caterpillar Tractor Co.
Chain Belt Co.
Clayton Manufacturing Co.
DeWalt, Inc.
Dotmer Industries, Inc.
Essick Manufacturing Co.
Fleco Corporation
General Electric Co.
Goodyear Tire & Rubber Co.
Goulds Pumps, Inc.
W.E. Grace Manufacturing Co.

The Hyster Co.
Joy Manufacturing Co.
Kohler Company
LaCrosse Trailer Corp.
Lincoln Electric Co.
Linde Air Products Co.
McCulloch Motors Corp.
Herman Nelson
Pioneer Engineering Works
Preco, Inc.
Ramset Fasteners, Inc.
Sauerman Bros., Inc.
Seasalt Steel & Iron Works
Stoody Company
White Manufacturing Co.
Witte Engine Works

DEPENDABLE Equipment & Supplies Sales Parts & Service



Northern Commercial Company

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Ketchikan • Nome • Whitehorse • Dawson
Home Office: Colman Bldg., Seattle

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

NORTHERN SUPPLY CO.....ANCHORAGE
Box 439, Post Road PH: 3-5191; 6-4151

Owner.....H.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
Bolce Crane Co.
Carlson Sullivan Corp.
Colorado Fuel & Iron Corp.
Champion DeArment Co.
Collins Axe & Tool
Chesterton Packing Co.
Coffing Hoist Co.
Henry Distson & 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 Werner Corp.
Heller Brothers Co.
Indestro Manufacturing Co.

Jeffery Manufacturing Co.
Jacobs Manufacturing Co.
Kennedy Manufacturing Co.
Ker-O-Kill Manufacturing Co.
Keuffel & Esser
Mathias Klein & Sons
Liddicoast 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.
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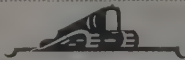
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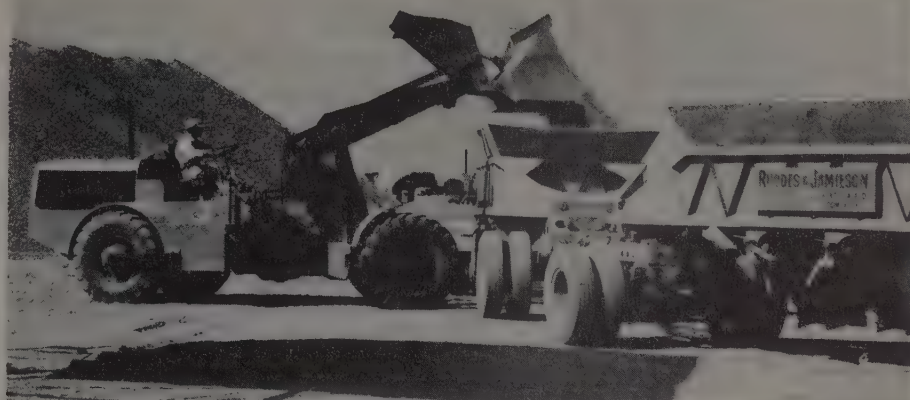
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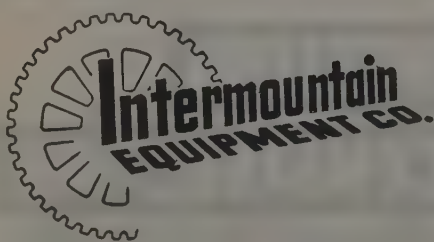
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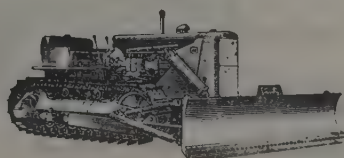
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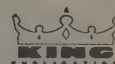
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Minneapolis-Moline Mfg. Co.
New England Carbide Tool Co.
Page Engineering Co.
J.D.Pollis Manufacturing Co.
Quick Steam Cleaners
Timken Roller Bearing Co.
Vibro-Plus Products
Whitman Manufacturing Co.
Winchberger Corp.
Winslow Govt. Scales Co.
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Manager.....John M.Allen
Parts Manager...Bert Earlson

Business Man.....Harry Shuler
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Le Roi Division
Murphy Diesel Co.

Northwest Engineering Co.
Ohio Locomotive Crane Co.
Pacific Wire Rope Co.
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Screen Equipment Co.
Traylor Engr. & Mfg. Co.
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Vulcan Iron Works

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Beebe Brothers
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Clyde Iron Works, Inc.
Concrete Surfacing Machinery Co.
Duff-Norton Manufacturing Co.
Handlan, Inc.
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Klauser Manufacturing Co.
Marlow Pumps
McCaffrey Ruddock Tooling Corp.

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Quincy Compressor Co.
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Shovel Supply Co.
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Smith Engineering Works
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Winslow Govt. Std. Scale Works

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Parts Manager...Hugh Munro

Vice President...Jim Wahoske
Sales Manager...Jim Wahoske
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Be-De Manufacturing Co.
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Cataphote Corp.
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Flexible Road Joint Machy. Co.
Heltzel Steel Form & Iron Co.
Henry Manufacturing Co.
Hwyay Machinery Co.
International Vibration
Koehring Co.
Koehring of Calif.

Kwik-Mix Co.
Lug-All Co.
Mason Construction Co.
Neill-Blumberg Co.
Miller Spreader Corp.
Omaha Standard
Ottawa Steel Co.
Persons Co.
Petroleum Heating
Quick-Way Shovel Co.
Safety Traffic Cone Corp.
Shovel Supply Co.
Simplicity Engineering Co.
Solitaire Industries
Standard Steel Works
Stockland Road Machinery Co.
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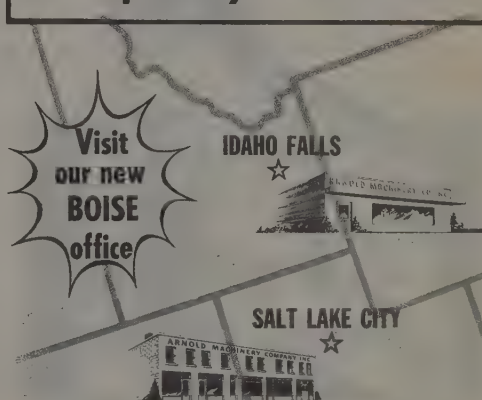
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Gar Wood Industries (Findlay Div.)
Gorman-Rupp Pump Co.
The Gunnison Manufacturing Co.
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Gardner-Denver Co.
Gledhill Road Machinery Co.
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Cleveland Trencher Co. Page Engineering Co.
Colorado Fuel & Iron Corp. Palmer Electric Mfg. Co.
Dart Manufacturing Co. "Quick-Way" Truck Shovel Co.
Drott Manufacturing Co. Shovel Supply Co.
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Ger-Bro Manufacturing Co. Superior Equipment Co.
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American Chain & Cable Co. Iowa Manufacturing Co.
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Buffalo Springfield Roller Littleford Bros. Co.
Caterpillar Tractor Co. Page Engineering Co.
W.E.Grace Mfg. Co. Thor Power Tool Co.
Hyster Company Trackson Company

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Manager.....Herbert McKinney

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CONTAINS . . .

Factory Branches with their addresses, personnel and phone numbers.

Factory Representatives with their addresses and phone numbers.

ADAMS DIVISION, LeTourneau-Westinghouse Co.			AMERICAN CHAIN & CABLE CO., INC.		
Denver	1222 W.16th St. District Manager	James T.Barron	Denver	4555 E.46th Ave. Manager	PH: FR 7-8807 Paul D.Steele
Oakland	9029 "G" St. District Manager Branch Manager Parts Manager	Don Hoffman H.J.Cooke Lee Hartwig	Los Angeles	2216 S.Garfield Ave. District Representative	PH: RA 3-3691 R.S.Heffner
AERO-COUPLING CORP.			Portland	2210 N.W.Roosevelt St. District Representative	PH: CA 6-2409 I.L.Schobert
Burbank	3015 Winona Ave. Manager General Sales Manager	PH: TH 8-5578 Forrest F.Hinkley C.W.Sawhill	San Francisco	890 Tennessee St. District Sales Manager	PH: MI 7-4640 George F.Lehr
AIR REDUCTION PACIFIC			AMERICAN HOIST & DERRICK CO.		
Bakersfield	CO. 3131 Jewett Ave. Manager	PH: FA 3-2976 E.E.Broadwater	Long Beach	6138 E.Tanglewood Manager	H.L.Lindberg
Burbank	1916 Burbank Ave. Manager	R.M.Parma	Mercer Island	9029 E.Shorewood Manager	R.H.Lampman
Emeryville	1485 Park Ave. Vice President Sales Manager	H.W.Saunders L.J.Fife	AMERICAN LOGGING TOOL CORP.		
Fresno	2319 Santa Clara Manager	PH: 4-2353 John Vrolyk	Los Angeles	2441 Hunter St. Manager	PH: TR 2857 R.H.Boag
Inglewood	1513 Centinela Manager	PH: OR 8-6348 R.H.McDowell	Portland	1518 N.W.Marshall St. Manager	PH: CA 7-2244 H.E.Tucker
Portland	430 N.W.Tenth Ave. Vice President Sales Manager	PH: CA 7-2467 H.A.Hoth S.Richardson	San Francisco	44 Potrero Ave. Manager	PH: UN 3-3567 J.E.Cormichael
San Diego	1531 Rigel St. Manager	PH: BE 4-1570 R.W.Gauk	Seattle	755 Edmunds St. Manager	T.Verhoef
Seattle	3623 E.Marginal Way Vice President Sales Manager	PH: MAIn 3260 L.A.Hamilton C.R.Goetjen	THE AMERICAN RUBBER MANUFACTURING CO.		
Tacoma	2106 A St. Manager	E.J.White	Eugene	3217 Whiffen Drive Representative	W.J.Schluchter
Vernon	2861 Leonis Blvd. Vice President Sales Manager	E.W.MacCorkle, Jr. S.W.Georgeson	Los Angeles	1741 W.Slauson Ave. Representative	PH: AX 2-0201 W.C.Muth
ALLIS-CHALMERS MANUFACTURING CO.			Portland	2939 N.Willamette Blvd. Representative	PH: CA 2-1708 Frank F.Welgel
Billings	25th & 4th Avenue Manager	PH: 5-5484 J.E.Begley	Seattle	Smith Tower Representative	PH: SE 1727 L.D.Eneboe
Los Angeles	4440 E.49th St. Branch Manager Construction Machy. Mgr.	PH: LO 5-5421 F.J.Crawford R.G.Mitchell	Springville	433 S.Third St.East Representative	John K.Hardy
Oakland	1400 Park Ave. Manager Assistant Manager Industrial Sales Manager Industrial Sales	PH: OL 3-3100 G.W.Schierman R.B.Harland S.C.Skimen F.R.Carpenter	AUSTIN-WESTERN CO.		
Pocatello	6025 - 1st Avenue Manager	PH: 193 L.D.Byers	Billings	6 Valley Drive District Manager	E.L.Kleckner
Portland	1305 S.E.Union Ave. Manager	PH: BE 2-2177 A.D.Relchard	So.San Francisco	149 So.Linden Ave. District Manager Asst.District Manager Parts Depot Manager Service Manager	PH: JU 3-5888 J.E.Huber Fred Bourquin F.J.Anzalone R.H.Witherill
AMERICAN BITUMULS & ASPHALT CO.			BADGER MACHINE CO.		
Inglewood	1401 W.Florence Ave. Manager	PH: OR 7-8112 D.E.Ketcham	Carmichael	4817 Melvin Drive Representative	Joseph Tandeski
Oakland	4525 San Leandro St. Manager	PH: KE 3-0341 A.C.Kroeger	Lakewood	1460 Reed St. Representative	Sheridan Wolfe
Portland	5501 N.W.Front Ave. Manager	PH: CA 2-1668 G.L.Ritter	BALDWIN-LIMA-HAMILTON CORP.		
Tucson	601 W.Simpson St. Manager	PH: 3-0511 L.R.Martz	Denver	6387 W.Ohio St. Representative	Paul Hawkinberry
			La Mirada	14100 E.Rosecrans Ave. District Manager	T.A.Griffin
			San Francisco	2929 - 19th St. Asst.District Manager	PH: MI 7-6781 Ralph Rodgers
			Seattle	1932 First Ave.So. Dist.Mgr.-Industrial Div. Office & Parts Manager	PH: SE 5420 W.D.Haley E.R.Wilkes
			BARBER-GREENE CO.		
			San Mateo	318 S."B" St. Area Sales Manager Area Service Manager	PH: DI 3-5828 E.L.Benson Harry Jackson

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Oakland	680 Hegenberger Rd. Manager	PH: LO 8-4150 William Stillwell
Seattle	809A Terminal Sales Bldg. Sales Representative	Wm.A.Matzke, Jr.
BETHLEHEM PACIFIC COAST STEEL CORP. Los Angeles	6000 So.Boyle Ave. Sales Manager	PH: LO 8-3041 L.J.Sorecco
Phoenix	213 N.First Ave. Sales Representative	T.E.Neff
Portland	508 Pacific Bldg. Manager of Sales	L.S.Kuhn
San Francisco	20th & Illinois Sts. Sales Manager	PH: MA 1-3200 C.D.Howe
Seattle	3631 E.Marginal Way Manager of Sales	PH: MO 1700 H.E.Gray
Spokane	W.725 Sprague St. Sales Representative	PH: TE 2743 C.T.Foxworth
BLACK & DECKER MANUFACTURING CO. Denver	1010 Bennet St. Manager	PH: AC 0621 A.R.Cooper
Los Angeles	2432 S.Broadway Branch Manager	PH: PR 0371 L.C.Kaefer
Portland	1640 N.W.Johnson St. Branch Manager	PH: CA 8-8631 Joe L.Gehring
Richmond	1732 Wright Ave. Pac.West Coast Sales Mgr. Warehouse Manager	J.P.Spain A.R.Meyers
San Francisco	4343 - 3rd St. Branch Manager Pac.West Coast Sales Mgr.	PH: AT 2-1900 Paul W.Pounds J.P.Spain
Seattle	434 - 8th Ave.No. Manager	PH: EL 6443 P.W.Lund
Spokane	N.2706 Hemlock Manager	PH: EM 4784 Gus Nelson
BLAW KNOX EQUIPMENT DIV. -BLAW KNOX CO., Construction Eqpt.Div. San Francisco	Western Sales Office 681 Market St. West Coast District Mgr.	PH: YU 2-1569 J.P.Cullen
BOSTON WOVEN HOSE & RUBBER CO. Los Angeles	1052 W.Sixth St. Representative	PH: MU 8186 W.E.Rivinius
Salt Lake City	1016 Military Dr. Representative	PH: DA 2-3612 Gail S.Moffat
San Francisco	995 Market St. Representative	PH: EX 2-2687 David S.Riser
Seattle	911 Western Ave. Representative	PH: EL 3085 S.B.Riser
Tucson	2521 E.Fourth St. Representative	George A.Hybl
BRIIGGS & STRATTON CORP. Bellevue	10255 N.E.21st Place Regional Field Supvr.	Carl Peterson
Phoenix	4518 N.12th Place Regional Field Supvr.	William Plutte
Van Nuys	5442 Elliott Ave. Regional Field Supvr.	W.J.Merkley
BRODERICK & BASCOM ROPE CO. Portland	1518 N.W.Marshall St. District Manager	PH: CA 7-2244 H.E.Tucker
San Francisco	44 Potrero Ave. Manager	PH: UN 3-3567 J.E.Carmichael
WM. BROS. BOILER & MANUFACTURING CO. Denver	1410 Spruce St. Sales Representative	O.G.Holliman
BUCHYRUS-ERIE CO. So. San Francisco	120 Freeway St. Western Sales Manager	PH: PL 5-7436 J.H.Sackett
Seattle	White-Henry-Stuart Bldg. N.W.Sales Manager Sales Representative Field Engineer Sales Repr.(Spokane)	PH: MA 6424 Robert P.Brooks John H.Plehn Lee DuBois D.K.Johnson

BUDA ENGINE & EQUIPMENT CO., INC. San Francisco	470 Bayshore Blvd. Factory Branch Manager	PH: VA 4-3906 C.H.Riding
BUFFALO-SPRINGFIELD ROLLER CO. Salt Lake City	526 - 13th St. Western District Repr.	Ben E.Lingenfelter
W.J.BURKE & CO. Albuquerque	606 Louisiana Blvd.,S.E. Manager	PH: 5-7549 William High
Los Angeles	6235 E.Telegraph Manager	PH: RA 3-7286 John T.Altwater
Portland	2344 - 21st Ave., N.W. Manager	PH: CA 2-9377 E.J.Cowling
Sacramento	115 "N" St. Manager	PH: HU 1-4626 J.A.McLaughlin
Seattle	1101 Elliott Ave. Manager	PH: AL 0553 Verne Cooperrider
A.M.BYERS San Francisco	225 Bush St. Division Manager	PH: YU 2-6760 A.D.Sheere
CARVER PUMP CO. Rolling Hills	26942 Buckskin Lane Western Reg. Sales Mgr.	Wm.A.McMahan
J.I.CASE CO. Los Angeles	Sub Branch Office District Manager	PH: LU 8-2917 Wm.F.Carey
Oakland	1933 Peralta St. PO Box 665, Bayshore Sta. District Manager Asst.Branch Manager " " " " " " Service Superintendent	PH: TE 0838 W.F.Carey P.L.Eades P.F.Jones Ray Friedrichsen
Portland	3333 S.E.39th Ave. Representative	PH: BE 2-9109 R.E.Arnold
Sacramento	6063 - 34th Ave. Representative	Jack DeBenedett
CATERPILLAR TRACTOR CO. San Leandro	800 Davis St. Sales Manager Assistant Sales Manager Sales Promotion	PH: SW 8-1100 B.L.Hagglund F.S.Foster T.W.Fahey
San Francisco	120 Montgomery St. Sales Manager Assistant Sales Manager Sales Promotion	PH: EX 7-1313 J.A.Justeson F.McNamara H.C.Fleming
CHAIN BELT CO. (CALIFORNIA FACTORY) Los Angeles	7601 Telegraph Rd. P.O.Box 6901 Mgr. of Calif. Operations	PH: RA 3-4751 S.V.Warner
San Francisco	366 Brennan St. Regional Manager	PH: CA 1-1438 C.R.Angell
CHICAGO BRIDGE & IRON CO. Los Angeles	General Petroleum Bldg. District Sales Manager	PH: MA 6-8651 Dean E.Stephen
Salt Lake City	555 W.17th South District Sales Manager	PH: HU 4-8551 J.G.Daniels
San Francisco	200 Bush St. Sales Manager	PH: EX 2-8936 L.A.Elsener
Seattle	1355 Henry Bldg. Sales Manager	PH: SE 7487 R.A.Jackson
CHICAGO PNEUMATIC TOOL CO. Los Angeles	655 S.Santa Fe Ave. District Manager Asst.District Manager	PH: MI 2651 H.P.Hansen H.K.Blackmon
Salt Lake City	156 W.4th South Assistant Manager	PH: EL 5-2985 O.L.Briggs
San Francisco	855 Bryant St. District Manager Assistant Manager Special Representative (Contractors Division)	PH: HE 1-7928 H.P.Hansen D.Holman C.W."Scotty" Scott
Seattle	2901 First Ave.,So. District Manager	PH: MA 3930 R.S.McBeth
CHRYSLER CORPORATION, Los Angeles	Marine & Industrial Engine 5800 S.Eastern Ave. Regional Manager	PH: RA 3-2581 M.J.Yost

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Menlo Park	210 Golden Oak Drive Alpine Hills District Manager	PH: UL 1-1334 Marshall O.Nystrom
Seattle	500 Wall St., Apt.913 District Representative	R.W.Lewis
THE CLEVELAND VIBRATOR CO. San Francisco	7 Front St. Representative	PH: SU 1-4151 L.P.Metesser
CLIPPER MANUFACTURING CO. Denver	Denver Club Bldg. Manager	PH: AL 5-6790 Sam Ashwood
Los Angeles	440 Seaton St. Manager	PH: MU 4589 Bob Stubbs
San Francisco	885 Bryant St. Manager	PH: UN 3-4324 Bob Stubbs
COFFING-HOIST DIVISION, Belmont	Duff-Norton Co. 1300 Sunnyslope Ave. District Sales Manager	R.A.Ratcliff
COLORADO FUEL & IRON CORP. Albuquerque	336 Korber Bldg. District Sales Manager	PH: 3-5526 C.O.Smith
Butte	401-402 Metals Bank Bldg. District Sales Repr.	PH: 5359 N.H.Nordby
Denver	4950 Colorado Blvd. Steel Sales & Warehouse Division Sales Manager	PH: DU 8-2491 J.R.Caten
Grand Junction	P.O.Box 451 District Sales Repr.	PH: 1744-J A.F.Corbetta
Los Angeles	2444 Saybrook Ave. Pacific Coast Division District Sales Manager	PH: RA 3-4691 H.B.Hansen
Oakland	1080 - 19th Ave. Pacific Coast Division General Mgr. of Sales Prod.Sales Mgr.(Wire Rope)	PH: KE 2-2141 J.T.Brittain R.G.Huntress
COLUMBIA-GENEVA STEEL Denver	Div. United States Steel Corp. 1st National Bank Bldg. Manager Sales	PH: MA 3-2241 J.B.Black, Jr.
CONSTRUCTION MACHINERY CO. San Carlos	1440 Cordilleras Ave. District Representative	PH: LY 1-0510 Edward R.Daley
COOK BROS. EQUIPMENT CO. Phoenix	2300 S.16th St. Manager	PH: AL 3-4952 Robert E.Wade
COPPERWELD STEEL CO. Bellevue	10219 N.E.30th Pl. Manager	L.E.McGuire
Los Altos	916 Fillip Rd. Manager	A.B.Leech
CUMMINS ENGINE CO. Denver	423 Denver National Bldg.	PH: MA 3-7559
Los Angeles	Rm.1101, 411 W.5th St. Regional Manager Representative Service Engineer	PH: MI 0224 Wilmot Sandham John W.Tucker Herman Martin
Seattle	935 Securities Bldg. Regional Manager	PH: MA 6855 C.J.Wilhite
JOHN DEERE Portland	215 S.E.Morrison St. Manager	PH: BE 4-5431 A.G.McClary
Salt Lake City	1841 W.1700 South St. Manager	PH: HU 4-4427 Walter Essenpreis
San Francisco	Box 3573, Rincon Annex Manager	PH: SU 1-2929 J.S.Bohmker
DETROIT DIESEL ENGINE Denver	DIV., General Motors Corp. 1269 Garfield St. Factory Representative	PH: EA 2-1444 H.K.McAfee
Los Angeles	227 So.Reno St. Representative	PH: DU 3-8176 A.W.Anderson
Phoenix	1833 W.Hazelwood Representative	PH: AM 5-3827 Gerry R.Holly
Seattle	4016 E.60th St. Representative	PH: PL 7179 James T.Hanna

DE WALT, INC. Arvada	5975 Dover St. Representative	F.J.Gregory
Beverly Hills	9385 Charleville Rd. Representative	W.H.Dudley
Burlingame	665 Darrell Rd. Representative	S.C.Hendricks
Seattle	14635 - 25th St., S.W. Representative	J.B.Mitchell
DIAMOND IRON WORKS DIVISION, Goodman Manufacturing Co. Denver	2389 Forest St. District Sales Manager	G.A.McCorlison
DIAMOND CHAIN CO., INC. Los Angeles	900 Santa Fe Ave. Factory Representative	PH: VA 1723 J.H.Creus
Menlo Park	1090 El Camino Real District Manager	PH: DA-3-4940 H.W.King
DIXON VALVE & COUPLING CO. Los Angeles	2333 E.Eighth St. Manager	PH: VA 0624 P.M.Hardwick
Portland	3935 S.W.75th Ave. Regional Manager	Thos.P.McNiesh
DRESSER MANUFACTURING DIVISION Denver	3221 Leyden St. Regional Manager	D.V.Hackett
So.San Francisco	101 So.Airport Blvd. Regional Manager	PH: PL 5-8778 R.J.Driggs
DROTT MANUFACTURING CORP. Hayward	1755 St.Andrew St. District Representative	Charles Rieckhoff
Portland	1909 N.E.73rd St. District Representative	Robert Jephson
DUFF-NORTON MANUFACTURING CO. San Francisco	1016 Howard St. Manager	PH: HE 1-4755 Ralph Ratcliff
K.O.DUNCAN CO. El Monte	1526 N.Potrero Ave. Manager	Frank S.Pearne, Jr.
EARTHCAVATOR CO., INC. Whittier	9243 S.Norwalk Blvd. Manager	M.C.Davis
ECONOMY FORMS CORP. Denver	2863 Walnut St. Manager	PH: AC 2-1845 E.L.Morrett
Los Angeles	5718 Long Beach Ave. Manager	PH: LU 1-7231 Robert Crowe
Oakland	190 MacArthur Blvd. Representative	PH: HI 4-2682 L.S.Dingman
ELECTRIC STEEL FOUNDRY CO. Emeryville	1280 - 65th St. Manager	Hal Robb
Eugene	1464 West Sixth St. Manager	Lloyd Maxwell
Los Angeles	4600 Pacific Blvd. Manager	PH: LU 1-7251 Joe Blake
Seattle	1131 W.Hanford St. Manager	PH: EL 4161 Bill Latimer
Spokane	N.1327 Washington St. Manager	PH: FA 4507 Nello Vanelli
EUCLID DIVISION, General Motors Corp. Bellevue	10038 N.E.30th Pl. District Sales Repr.	W.B.Dickerson
Denver	110 Ivy St. District Sales Repr.	E.C.Dellen
Great Falls	2000 First Ave.N. District Sales Repr.	PH: 2-8141 M.W.Miller
Oakland	606 Syndicate Bldg. Western Regional Manager	M.H.Johnson
Sacramento	710 La Sierra Drive District Sales Repr.	H.P.Behl
Spokane	1621 S.Grand Blvd. District Sales Repr.	J.S.Spillman

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Oakland	351 Embarcadero St. Sales Representative	K.L.Thurston Wm.L.Selig, Jr.	Los Angeles	2939 E.11th Manager	PH: AN 3-6723 Thomas Meyer
San Diego	1815 Hancock St. Sales Representative	Ned C.Crawford	Portland	1111 N.W.16th Manager	PH: BR 1259 Jink C.Williams
Santa Clara	1706 Grant St. Sales Representative	R.Burton Rose	Salt Lake City	631 So.Second West Manager	PH: EL 5-7437 P.E.Moss
FLECO CORP. Vancouver	730 N.Norellus Rd. Representative	E.V.Frankenberg	San Francisco	398 Fifth St. Manager	PH: SU 1-7944 Robert Steinke
FLEXIBLE STEEL LACING CO. Long Beach	5621 The Toledo Manager	Newton Crum	Seattle	2751 Fourth Ave.So. Manager	PH: MA 8527 Herbert Cleaver
Seattle	10146 Holmen Road Sales Representative	PH: SU 8489 John A.Marshall	THE GORMAN-RUPP CO. Palo Alto	110 Walter Hays Drive District Representative	Robert L.Nicolel
FORD MOTOR CO., Tractor & Implement Div. Oakland	Financial Center Bldg. Western Sales Manager Regional Sales Repr. Service Representative Parts Representative	PH: TW 3-7791 J.Lockwood, Jr. T.W.Heming R.A.Pender G.W.Riley J.W.Bressler	GRADALL DIV.-WARNER & SWASEY CO. Los Angeles	3340 Leonis Blvd. Field Engineer	R.R.Bechtel
THE FOUR WHEEL DRIVE AUTO CO. Burlingame	1256 Cortez Ave. District Manager	Ronald C.Gehrke	GEORGE HAISS MANUFACTURING CO., INC. Palo Alto	674 Wellisbury Way West Coast District Repr.	PH: DA 4-1755 A.E.Ainlay
Pomona	2204 Virginia Ave. District Sales Manager	PH: LY 2-1989 Jack Kelly	HARNISCHFEGER CORP. Denver	1108 - 15th St.	PH: AL 5-5619
Portland	8427 S.W.58th Ave. District Manager	Les Berndt	Los Angeles	Pacific Div.Hdqtrs.& Plant 2400 E.Imperial Highway District Manager General Manager	PH: LO 9-7141 W.G.Godfrey B.Pratte
FRUEHAUF TRAILER CO. Sacramento	3660 W.Capitol Ave. Office Manager	PH: GI 3-3906 Chester Glebe	San Francisco	Rm.212, 100 Bush St. District Manager Sales Engineer	PH: DO 2-2313 Wm.H.DeHuff W.A.Stiles Don Carlson
Seattle	2411 Sixth Ave.So. Manager	PH: MU 0487 A.V.Tice	Seattle	2909 - 1st Ave.So. District Manager Office Manager	PH: MA 7720 P.H.Hunter F.Effenberger
Spokane	W.1107 Third Ave. Branch Manager Office Manager Service Manager Parts Manager	PH: MA 9151 M.G.Holm Elmo Aegard Harold Gover F.Van Eaton	HAUCK MANUFACTURING CO. Los Angeles	254 S.Broadway, Rm.254 Manager	Alvin M.Cunningham
FULLER MANUFACTURING CO. Oakland	641 E.10th St. District Manager	PH: TE 4-9023 E.L.King	San Francisco	625 Third St. Manager	PH: SU 1-2979 H.B.Cleveland
THE GALION IRON WORKS & MFG. CO. Altadena	3273 Mt.Curve District Representative	PH: SY 8-5577 Dan Penkoff	HAWKINS-HAWKINS CO., INC. Denver	1018 Lawrence St. Manager	L.S.Reed
Portland	3902 N.E.36th Ave. Regional Manager	Robert N.Shears	La Crescenta	3755 Montrose Ave. Manager	Jack Miller
GARDNER-DENVER CO. Butte	215 East Park St. District Manager	PH: 2-2662 R.S.Gibson	THE HEIL COMPANY Denver	505 Colorado Bldg. Manager	PH: SK 6-2971 MA 3-1773 John Zimmerman
Denver	P.O.Box 1020 District Manager	PH: KE 4-0181 H.F.Gerhauser	Los Angeles	2999 W.6th St. District Manager	PH: DU 9-2772 Len C.Anderson
Los Angeles	845 E.61st St. Manager Office Manager	PH: AD 3-4115 W.A.Nilsson J.R.Linz	Seattle	708 - 5th Ave.So. District Manager	PH: MA 1114 F.Claude Conrad
San Francisco	811 Folsom St. District Manager	PH: EX 2-8747 C.H.Dirks	HERCULES MOTORS CORP. Los Angeles	2336 S.Garfield Ave. Manager	PH: RA 3-6563 W.B.Brumback
Seattle	615 - 8th Ave.So. District Manager Office Manager	PH: SE 1115 B111 D.Elliott Don Nethaus	HERCULES POWDER CO. San Francisco	120 Montgomery St. Manager	F.Geo.Trescher
Portland	4531 S.W.Idaho Dr. Resident Salesman	PH: CH 4-4927 Donald A.Helnze	HEWITT-ROBINS, INC. Los Angeles	2604 So.Malt Ave. Regional Manager District Manager	G.V.Migula M.D.Austin
GARWOOD INDUSTRIES, INC. Los Angeles	4515 So.Soto St. Manager	PH: LO 8-3211 Al F.Hoop	HOMELITE-A DIVISION, Fresno	Textron American, Inc. 2308 Venture St. Manager	PH: 4-5170 LeMar Cheney
Richmond	4th & Wright St. District Manager	PH: BE 4-3914 A.M.Guthrie	Los Angeles	624 S.Anderson District Manager Branch Manager Office Manager	PH: AN 8-0186 Ralph W.Evans Charles Guernon William Rankin
			Portland	3436 S.E.Milwaukee Ave. Manager	PH: FI 9233 Guy Sabin
			Sacramento	2234 Auburn Blvd. Manager	PH: WA 5-5396 Richard Dodelin
			Salt Lake City	7440 Highway 91 Manager	PH: EL 9-4216 Lynn Peterson
			So.San Francisco	727 Airport Blvd. District Manager Branch Manager Office Manager	PH: JU 6-5900 R.C.Gildden J.Kirkbride Dick Claunch
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THE HUBBARD CO. La Jolla	2360 Calle Del Oro Manager	P. G. Webster
San Francisco	2166 Market St. Manager	V. W. Roch
HUBER-WARCO CO. Pleasant Hill	436 Minton St. District Representative	Jack McCaffrey
INGERSOLL-RAND CO. Butte	845 S. Montana District Manager	PH: 2-0451 R. L. Olund
Denver	1641 Blake St. Manager	PH: KE 4-2245 A. A. Holland
Los Angeles	1460 E. 4th St. District Manager Engineer	PH: AN 6761 W. J. Heinz H. K. Lewis J. U. Zoeller C. N. Portland
Salt Lake City	144 S. W. Temple Manager	PH: DA 8-8127 R. W. Lawson
San Francisco	350 Brannan St. Manager	PH: GA 1-6330 W. C. Golyer
Seattle	526 First Ave. So. Manager	PH: MA 2866 J. A. Anderson
INSLEY MANUFACTURING CO. Los Angeles	3278 Wilshire Blvd. Factory Sales Repr.	Lee R. Smith
INTERNATIONAL HARVESTER CO. (District Office) Billings	20 S. Broadway District Manager	PH: 4-4144 W. F. Koch
IOWA MANUFACTURING CO. San Francisco	6 Font Blvd. District Representative	PH: JU 5-4640 O. E. "Bud" Whitney
THE JAEGER MACHINERY CO. Sherman Oaks	5107 Mammoth Ave. Representative	Herbert F. Twalts
EARLE M. JORGENSEN CO. Oakland	1657 W. Grand Ave. District Manager	PH: HI 4-2030 P. C. Childs
JOY MANUFACTURING CO. Denver	1626 Wazee St. Manager	PH: KE 4-6334 J. H. Enrick
Los Angeles	5426 E. Washington Blvd. District Manager	PH: RA 3-6305 T. G. Weir
Salt Lake City	1359 S. 2nd West District Manager Field Engineer	PH: HU 4-8791 K. A. Lehner F. L. Buehler G. J. Miller
San Francisco	1155 Harrison St. District Manager	PH: HE 1-2446 L. C. Rhodes
KER-O-KIL MANUFACTURING CO. Redwood City	2701 El Camino Real Manager	Horam Slocum
KOEHRLING CO. OF CALIFORNIA Stockton	2200 Country Club Blvd. P.O. Box 1891 Vice Pres. & Gen. Mgr. Secretary & Office Mgr. Asst. Factory Manager Parts Manager	PH: HO 4-7375 H. R. Powers Geo. L. Willson H. R. Patton B. D. Ward
Other Subsidiaries C. S. Johnson Co., Koehring Southern Co., Kwik-Mix Co., Parsons Co.		
KOLMAN MANUFACTURING CO. San Francisco	1739 - 32nd Ave. Western Representative	PH: OV 1-8346 Sam Madrid

LE ROI DIVISION, Westinghouse Air Brake Co. Butte	927 W. Woolman Sales Representative	W. J. Briney
Compton	430 E. Compton Blvd. Manager, Western Region District Representative	PH: NE 6-4343 Irvin E. Smiley James Crawford
Denver	8705 Dover Circle Regional Manager	W. E. Mattson
Emeryville	1545 Park Ave. District Representative	PH: OL 2-8100 W. Howard Winheim
Phoenix	3921 East Elm St. District Representative	PH: AM 5-9116 William J. Marsh
Seattle	550 Mercer St. District Representative	PH: AL 3000 Robert E. Marler
LESCHEN WIRE ROPE DIVISION Portland	914 N.W. 14th Ave. Manager	PH: CA 8-0480 A. J. Swift
San Francisco	520 - 4th St. District Manager	PH: GA 1-8134 D. Berglund
Seattle	2724 First Ave. So. Manager	PH: SE 0851 H. L. Waltman
LINCOLN ELECTRIC CO. Emeryville	1303 Stanford Ave. District Manager	PH: HU 3-6126 C. L. Stocker
Portland	1034 N.E. Russet St. District Manager	PH: BU 9-8881 E. H. Well
LINK-BELT SPEEDER CORP. Pasadena	283 S. El Molino Ave. District Representative	PH: SY 3-3520 Ralph G. Robey
Portland	3121 S.W. 10th Ave. District Sales Repr.	N. V. Chehak
Santa Ana	1531 W. 12th St. District Sales Repr.	K. G. Snider
Tigard	Route 3, Box 473-A District Sales Repr.	W. R. Severe
MACK MOTOR TRUCK CORP. Denver	4850 Vasquez Blvd. Manager	PH: TA 5-1201 E. R. Robinson
Los Angeles	2001 South Alameda President Vice President Division Manager Manager-Fire Apparatus Service Manager Parts Manager	PH: RI 9-6261 P. O. Peterson (NY) J. C. Rowold J. C. Rowold R. W. Cornelli E. H. Laycock J. C. Alexander
Portland	1122 N. Williams Ave. District Manager Assistant Manager	PH: BE 2-4187 John D. Young J. C. Merrick
Salt Lake City	704 S. Third West Manager	PH: DA 2-3471 S. V. Trent
San Francisco	1745 Folsom St. District Manager Assistant Branch Manager Service Superintendent Parts Supervisor	PH: UN 1-1455 J. E. Donovan W. C. Miles H. P. Kraus Martin Meyn
Seattle	3707 Airport Way Manager	PH: SE 0860 E. A. May
MACWHYTE CO. Los Angeles	2035 Sacramento St. District Manager	PH: TR 8383 Fred Sime
Portland	1603 N.W. 14th Ave. District Manager Office Manager	PH: GA 7-1661 W. J. Brett Earl S. Jernigan
San Francisco	188 King St. District Manager	PH: EX 2-4966 Fred Sime
MALL TOOL CO. Berkeley	2735 San Pablo Ave. Regional Manager	PH: LE 9-0966 Berton B. Daves
Denver	3601 Brighton Blvd. Sales	PH: AC 2-3508 Harold E. Ott
Glendora	440 E. Alosta Ave. Sales	PH: ED 5-1225 Laurence Simellus
Great Falls	406 - 19th St., S.W. Sales	PH: 8614 Edward P. Bucko
Los Angeles	5316 Santa Fe Ave. Sales	PH: KI 2122 Richard D. Romandy

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Los Angeles	3923 W.51st St. District Sales Manager	PH: DU 2-2446 D.E.Nortz
Seattle	6057 - 35th Ave., N.E. District Sales Manager	H.T.Steinheim
MARION POWER SHOVEL CO. Los Angeles	4835 Crenshaw Blvd. District Manager	PH: AX 4-2560 T.R.Fogelberg
Phoenix	1017 N.22nd Ave. Manager	PH: AL 2-5371 Ernest J.Riggs, Jr.
Portland	3133 N.E.87th Place District Manager	PH: AL 3-8550 Wm.F.Lantus
So. San Francisco	326 Shaw Road Western Sales Manager	PH: PL 6-3155 Dean Calland
MARLOW PUMPS, Burbank	223 S.Beachwood Drive District Manager	Wm.M.Coopman
MARMON-HERRINGTON CO. Oakland	266 Lenox Ave. District Manager	PH: TE 2-2567 Paul P.Bliss
MORGEN MANUFACTURING CO. Bellevue	8733 Fourth Pl., N.E. District Manager	James A.Dougan
MURPHY DIESEL CO. Casper	1327 W.25th St. District Representative	J.L.Jarboe
Redmond	Route 1, Box 1057 District Representative	Bradley Bartlett
Ventura	109 S.Coronado District Representative	F.North Jones
NEO-FLASHER MANUFACTURING CO. Denver	U.S.National Bank Bldg. District Manager	Blaine Riley
Portland	122 S.W.First Ave. District Manager	Art Sullivan
Seattle	1954 First Ave. District Manager	Bruce Rutherford
NOBLE COMPANY Inglewood	117½ W.Manchester S.W.District Sales Repr.	PH: OR 8-4457 Lawrence Taylor
Seattle	518 First Ave., No. N.W.District Sales Repr.	Dale Nunemaker
NORDBERG MANUFACTURING CO. San Francisco	674 Harrison St. Manager	C.G.Cox
Vancouver	1876 W.Georgia St. Manager	S.C.McComb
NORTHWEST ENGINEERING CO. Los Angeles	3707 S.Santa Fe Ave. Division Sales Manager Los Angeles Dist.Sls.Mgr. Headquarters	PH: LU 7-2531 A.G.Crowley P.G.Rowe San Francisco
San Francisco	255 - 10th St. Regional Manager Office Manager	PH: HE 1-5060 A.G.Crowley M.C.Schultz
Seattle	1234 - 6th Ave., So. District Sales Manager	PH: SE 2201 J.L.Tallman
THE OLIVER CORP. Los Angeles	4330 District Blvd. Manager Industrial Sales Repr.	PH: LU 7-3297 H.W.Dement D.G.Baker
Oakland	1066 - 47th Ave. Western Division Manager Manager	PH: KE 2-2511 Sam W.White, Jr. G.M.Blou
Portland	130 S.E.Morrison Manager	H.E.Noess
D.W.ONAN & SONS, INC. Denver	2800 Tennyson St. Zone Manager	Les Lelande
Palo Alto	1588 Edgewood Drive Zone Manager	Frank Gernand
PACIFIC PUMPING CO. Los Angeles	5000 District Blvd. Manager	PH: LU 1-8181 R.H.Franklin
Portland	526 N.W.Broadway Manager	PH: CA 8-2121 S.B.Hunting
Seattle	114 W.Harrison St. Manager	PH: EL 6222 Bernard Willis

PACIFIC WIRE ROPE CO. Los Angeles	1840 E.15th St. Sales Co-ordinator	PH: RI 9-7511 N.Graham
Portland	3615 N.W.St.Helens Rd. Manager	PH: CA 3-3188 James K.Mosser
San Francisco	681 Market St. Manager	PH: EX 7-1372 John G.Boven
THE PARSONS CO., Koehring Co. of California Stockton	2200 Country Club Blvd. Manager District Representative	Herry Powers W.B.Thompson
THE PATENT SCAFFOLDING CO., INC. Los Angeles	6931 Stanford Ave. Manager	PH: PL 3-2571 R.C.Barsch
San Francisco	1695 Mission St. Manager	PH: HE 1-4278 R.B.Bergh
Seattle	420 Eighth Ave., No. Manager	PH: SE 7142 J.J.Wilbur
PETTIBONE MULLIKEN CORP. Denver	790 Lincoln District Manager	E.J.Tovey
N.Hollywood	6900 Tujunga Ave. District Manager	C.W.Cadarette
Palo Alto	674 Wellsbury Way West Coast District Repr.	PH: DA 4-1755 A.E.Ainlay
Redding	7193 Pitt Rd. District Manager	N.Anderson
PIONEER ENGINEERING WORKS, INC. Denver	2091 Jasmine St. District Representative	Elton T.Fair
Portland	2145 N.E.Hancock District Representative	W.H.Schannep
PITMAN MANUFACTURING CO. Altadena	1796 E.Mendocino St. District Representative	Bert McMillin
THE PRIME-MOVER CO. Seattle	8733 Fourth Pl., N.E. Representative	James A.Dougan
QUICK-WAY TRUCK SHOVEL CO. Denver	155 Balsam St. District Manager	D.Wayne Wagers
Los Angeles	1434 Peerless Pl. District Manager	T.S.Petersen
Spokane	E.1507 Rockwell District Manager	Tom R.Engquist
QUINCY COMPRESSOR CO. San Francisco	1185 Mission St. Manager	PH: UN 1-3030 Bernard Katz
THE READY POWER CO. Huntington Park	Box 1205, State St.Sta. District Manager	Karl Mollendick
Seattle	1424 - 11th Ave. District Manager	PH: EA 0525 George Hundsdorfer
REMINGTON ARMS CO., INC. Portland	921 S.W.Washington St. District Manager	PH: CA 8-3294 D.N.Wiener
Salt Lake City	Walker Bank Bldg. District Manager	PH: EL 5-8686 D.W.Fleannigan
San Francisco	785 Market St. District Manager	PH: EX 2-3176 D.L.Braun
RICHMOND SCREW ANCHOR CO., INC. San Marino	San Marino Ave. Regional Manager	George E.Tupper
RODGERS HYDRAULIC, INC. San Francisco	4719 Geary St. District Manager	PH: PR 6-2264 Earl P.Holington
JOHN A.ROEBLING'S SONS CORP. Denver	4801 Jackson St. District Manager	PH: FR 7-2769 G.P.Hays
Los Angeles	5340 E.Harbor St. District Manager	PH: RA 3-6421 PA 8-2171 J.C.Barney
San Francisco	1740 - 17th St. Manager	PH: MA 1-8787 G.C.Bukowsky
Seattle	900 - 1st Ave., So. Manager	PH: MA 4992 A.R.Robinson

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SAFWAY STEEL PRODUCTS, INC.	Los Angeles	5875 Rodeo Rd. Manager	PH: TE 0-3758 G.R.Garsden
	San Diego	4810 Anna Ave. Manager	PH: CY 6-3394 M.J.Murphy
SCHIED BANTAM CO.	Spokane	P.O.Box 849 District Manager	R.A.Ottersness
SCHRAMM, INC.	Los Angeles	846 E.6th St. District Manager Office Manager Sales Engineer Service Manager	PH: TU 2431 Karl S.Burile I.Torrez Thomas J.Bono Charles F.Ill H.E.Brengle
	Portland	2727 S.E.Union Ave. District Representative	Edw.E.Calkins
	San Francisco	1315 Howard St. West Coast Manager Manager Office Manager Sales Engineer Service Manager	PH: UN 3-6655 D.M.Thomson D.M.Thomson Donald A.Hovland Larry Kean Cecil B.Anderson Edgar McClelland
SEAMAN-ANDWALL CORP.	Mesa	508 N.Robson St. Zone Manager	George Blewer
	San Mateo	606 S.El Camino Real West Coast Zone Manager	PH: DI 4-9944 Jack Lumley
SHERMAN PRODUCTS, INC.	San Francisco	Box 481 Zone Manager	J.W.Greenis
SKIL CORPORATION	Denver	4462 York St. Branch Manager	PH: MA 3-4195 J.E.Watwood
	Los Angeles	2730 S.Broadway Manager Office Manager Service Manager	PH: RI 1171 Paul Jones Mrs. F.Huseby F.H.Scifres
	Portland	5616 N.E.Gilson St. Manager	PH: BE 4-7418 Bert Macomber
	San Francisco	285 So.Van Ness Ave. Branch Manager Sales Representative " " " " Service Manager	PH: UN 3-1250 Herman Pflug Ken R.McMillan Charles Fowler W.R.Woosley Jerry Healey
	Seattle	818 John St. Manager Service Manager	PH: SE 3045 H.F.Linder Robert Schroeder
	Spokane	2226 N.Division Branch Manager Service Manager	PH: HU 6438 B.L.Hoffman Paul E.Chase
GORDON SMITH & CO.	Whittier	348 1/2 N.Greenleaf Ave. Western Representative	Lee J.Pruis
S.MORGAN SMITH CO.	San Francisco	68 Post St. Western District Manager	PH: GA 1-5582 Harry A.Doeil
SMITH ENGINEERING WORKS	Los Angeles	810 W.Fifth St. District Manager	R.S.Balley
	Portland	1631 N.W.Thurman District Manager	J.R.Smith
STEPHENS-ADAMSON MANUFACTURING CO.	Portland	1007 E.Burnside St. Manager	PH: BE 5-4473 P.R.Hines
	Salt Lake City	210 W.33rd So.,Box 1054 Manager	PH: IN 6-8683 Ray Nelson
	San Francisco	145 Mission St. Manager	PH: EX 2-7181 R.J.Cooper, Sr.
	Seattle	714 Joseph Vance Bldg. Manager	PH: MU 3963 Dan A.Lyons
STOW MANUFACTURING CO.	Los Angeles	230 E.Anahelm Blvd. Regional Repr.	Walter Humes
	Portland	35 S.W. 1st Ave. Regional Manager	B.Rutherford
	San Francisco	445 Bryant St. Regional Repr.	PH: EX 2-8064 A.C.Cope
	Seattle	1954 1st Ave.,So. Regional Manager	PH: EL 1954 B.Rutherford

SUPERIOR CONCRETE ACCESSORIES, INC.	San Leandro	2100 Williams St. District Manager	PH: LO 2-2830 H.G.Ballou
TEMPLETON, KENLY & CO.	Concord	720 Bancroft Rd. District Sales Manager	W.H.Zepp
	Los Angeles	1635 E.22nd St. Manager	Wm.S.Pine
THERMOID WESTERN CO.	Los Angeles	1100 S.Santa Fe Ave. Manager S.W.Division Sales Mgr.	James L.Pelmeau R.W.Wyman
	Portland	3939 N.W.St.Helens Rd. Manager	PH: CA 2-9765 Ronald Olson
	San Francisco	544 Second St. Manager N.W.Division Sales Mgr.	PH: YU 2-4141 Wm.B.Wallace W.J.Chaffin
THOR POWER TOOL CO.	Denver	1040 Speer Blvd. Branch Manager Office Manager	PH: AL 5-3668 C.H.Gabriel L.W.Cooper
	Los Angeles	6200 E.Slauson Ave. L.A.Factory Vice Pres. L.A.Branch Manager	PH: RA 3-3191 W.B.Hunn W.J.Laughlin
	San Francisco	315 So.Van Ness Ave. District Manager	PH: UN 1-2045 E.C.O'Connell
TRAILMOBILE, INC.	Seattle	611 E.Pike St. Manager	PH: CA 5000 R.J.Horrocks
TRAILMOBILE, INC.	Los Angeles	1765 E.46th St. Manager	PH: AD 1-9283 Wayne Hill
TWIN DISC CLUTCH CO.	Los Angeles	2950 Leonis Blvd. Manager Office Manager District Service Repr.	PH: LO 8-3309 A.W.Belcher P.R.Olney H.R.Hougan
UNION WIRE ROPE CORP.	Portland	1637 N.W.14th Ave. Manager	PH: CA 7-0475 Carl D.Schooley
UNIT CRANE & SHOVEL CORP.	Sacramento	4440 Cabrillo Way District Sales Repr.	Herman Combs
UNIVERSAL ENGINEERING CORP.	Denver	2800 Newport St. District Representative	E.J.Tovey
	N.Hollywood	12147 Huston St. District Representative	Claude W.Cadarette
	Palo Alto	674 Wellsbury Way District Representative	PH: DA 4-1755 A.E.Ainlay
UNIVERSAL FORM CLAMP CO.	Los Angeles	5855 S.Western Ave. Manager	PH: AX 2-0231 Richard Allen
	San Leandro	2051 Williams St. District Manager	PH: LO 2-2051 R.G.Allen
VICTOR EQUIPMENT CO.	Fresno	145 Van Ness Ave. Manager	PH: 6-0619 Al Dreith, Jr.
	Los Angeles	3821 S.Santa Fe Vice President " "	PH: LA 1286 E.O.Williams Jack Spence
	Oakland	1200 - 17th Ave. Manager	PH: KE 6-4700 Richard Heinemann
	Sacramento	1315 - 21st St. Manager	PH: G1 3-1450 Richard Lebagh
	San Diego	2711 Kettner St. Manager	PH: CY 6-6372 Herb Maynard
WAGNER IRON WORKS	Oakland	656 - 31st St. Western Regional Manager	PH: OL 4-2763 Don E.Teichl
WAUKESHA MOTOR CO.	Los Angeles	4927 Pacific Blvd. Manager	PH: LU 8-2266 A.G.Mulkey
WAYNE MANUFACTURING CO.	Palo Alto	1590 Dana Ave. Manager	Robert E.Spear

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THE S.K.WELLMAN CO. Portland	636 N.W. 16th Ave. Service Representative	PH: CA 3-7910 J.J. Love
San Francisco	424 Bryant St. Manager	PH: EX 2-2419 J.S. Mitchell
THE WHITE MOTOR CO. Denver	1910 - 38th St. Manager	PH: AC 2-4661 R.W. Cochran
Los Angeles	411 E. Washington Manager	PH: RI 9-9171 W.L. Henry
Portland	2705 N.W. Nicolai Manager	PH: CA 6-2411 H.D. Collins
San Francisco	590 Brannen St. Regional Manager	PH: YU 2-5134 W.D. Patterson H.P. Strother
WORTHINGTON CORP Los Angeles	5075 Santa Fe Ave. Regional Supervisor	PH: LO 8-6451 W.F. Martin
Salt Lake City	118 Motor Ave. Regional Supervisor	P.E. Wilson
San Francisco	224 Townsend St. Regional Supervisor	PH: GA 1-4906 A.C. Cartwright
Seattle	2616 Western Ave. Construction Eqpt. Div. Regional Supervisor	PH: MA 4218 C.W. Croney

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PRODUCTS SECTION

CONTAINS:

Alphabetical listing of products manufactured by the manufacturers listed in the yellow section.

A

- ABRASIVE BLADES**
Black & Decker Mfg. Co.
Clipper Manufacturing Co.
Concrete Sawing Eqp't. Co.
Construction Machinery Co.
DeWalt, Inc.
Felder Manufacturing Co.
LeTourneau-Westinghouse Co.
Shunk Manufacturing Co.
Skill Corporation
Thor Power Tool Co.

AGITATORS
Butler Bln Co.
Dorr-Oliver, Inc.
Towner Manufacturing Co.
Worthington Corp.

AERIAL TRAMWAYS
Columbia-Geneva Steel Co.
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
Allis-Chalmers Mfg. Co.
American Tractor Eqp't. Corp.
Arps Corp.
Austin-Western Co.
Baker Manufacturing Co.
Wm. Bros. Boiler & Mfg. Co.
Elmco Corp.
Hydraulic Tool & Eqp't. Co.
LeTourneau-Westinghouse Co.
Oliver Corp.
Ottawa Steel Div.
Shawnee Manufacturing Co.
Wagner Iron Works
West Coast Machinery Co.
Woodriddle Manufacturing Co.

ASPHALT CUTTERS
Arrow Tools, Inc.
Berco Manufacturing Co.
Brunner & Lay, Inc.
Clipper Manufacturing Co.
Ottawa Steel Div.
R.P.B. Corp.
Thor Power Tool Co.

ASPHALT KETTLES
Aeroll Products, Inc.
Clipper Manufacturing Co.
Hauck Manufacturing Co.
Littleford Bros., Inc.
Rosco Manufacturing Co.
Spears-Wells Machinery Co.
Standard Steel Works
White Manufacturing Co.

ASPHALT PAVING EQUIPMENT
Berber-Greene Co.
Blaw Knox Co.
Burch Corp.
Foote Co., Div. Blaw Knox Co.
Harnischfeger Corp.
Hauck Manufacturing Co.
Hetherington & Berner, Inc.
Highway Equipment Co.
Littleford Bros., Inc.
Iowa Manufacturing Co.
Kwik-Mix Co.
- ASPHALT PAVING EQUIPMENT**
Madsen Iron Works
Pioneer Engineering Works
Spears-Wells Machinery Co.
Ulrich Products Corp.
Universal Engineering Co.
Weyer Impactor, Inc.

ASPHALT PLANTS
Berber-Greene Co.
W.L. Childers Mfg. Co.
F.D. Cummer & Son Co.
Geo. Hals Manufacturing Co.
Hetherington & Berner, Inc.
Iowa Manufacturing Co.
Kwik-Mix Co.
Madsen Iron Works, Inc.
Pioneer Engineering Works
Standard Steel Corp.
Standard Steel Works
Universal Engineering Corp.
White Manufacturing Co.
Wylie Manufacturing Co.

ASPHALT SUPPLY TANKS
E.D. Etnyre & Co.
Gunnison Manufacturing Co.
Littleford Bros., Inc.
Madsen Works Division
Pettibone Wood Mfg. Co.
Standard Steel Works
- Browning Crane & Shovel Co.
Bucyrus-Erie Co.
Byers Manufacturing Co.
Clark Equipment Co.
Cook Bros. Equipment Co.
Electric Steel Foundry Co.
General-Osgood Co.
Hanson Clutch & Machinery Co.
Harnischfeger Corp.
Frank G. Hough Co.
Hydraulic Tool & Eqp't. Co.
Hyster Co.
Insley Manufacturing Co.
Koehring Co.
LeRol Co.
Link Belt Speeder Corp.
Little Giant Crane & Shovel, Ind.
Marion-Osgood-General
M.P. McCaffrey, Inc.
Mid-Western Industries, Inc.
Oliver Corp.
Ottawa Steel Div.
Earl H. Pence & Co., Inc.
Quick-Way Truck Shovel Co.
Schild Bantam Co.
Schramm, Inc.
Shawnee Mfg. Co.
Sherman Products, Inc.
Thew Shovel Co.
Wagner Iron Works
Wayne Shovel & Crane Div.

BAR CUTTERS
Brunner & Lay
C.H. & E. Manufacturing Co.

BARRICADES
Neo-Flasher Mfg. Co.
Traffic Equipment Co.

BATCHERS
Berber-Greene Co.
Blaw Knox Co.
Butler Bln Co.
Bodinson Manufacturing Co.
Construction Machinery Co.
Conveyor Co.
Gar-Bro Manufacturing Co.
Heltzel Steel Form & Iron Co.
Hovry-Berg Steel & Iron Works
Koehring Co.
Lippmann Engineering Works
Materials Handling, Inc.
Miller & Smith Mfg. Co., Inc.
Noble Co.
Standard Steel Corp.
Tampo Manufacturing Co.
Willard Concrete Mch'y. Sls. Co.

BELT FASTENERS
Conveyor Co.
Flexible Steel Lacing Co.

BENDERS
C.H. & E. Manufacturing Co.

BINDICATORS
Butler Bln Co.
Conveyor Co.
C.S. Johnson Co.
Materials Handling, Inc.

BINS
Baldwin-Lima-Hamilton Corp.
Berber-Greene Co.
Baughman Manufacturing Co.
Blaw Knox Co.
Bodinson Manufacturing Co.
Butler Bln Co.
Construction Machinery Co.
Conveyor Co.

Cook Bros. Equipment Co.
Diamond Iron Works
Gar-Bro Manufacturing Co.
Heltzel Steel Form & Iron Co.
Hovry-Berg Steel & Iron Works
Iowa Manufacturing Co.
C.S. Johnson Co.
Koehring Co.
Lippmann Engineering Works
Materials Handling, Inc.
Miller & Smith Mfg. Co., Inc.
Noble Co.
Pioneer Engineering Works
Tampo Manufacturing Co.
Straub Manufacturing Co.
Suprema, Inc.
Universal Engineering Corp.

BITUMINOUS BOOSTERS
Wm. Bros. Boiler & Mfg. Co.
Cleaver Brooks Co.
W.E. Grace Mfg. Co.
Spears-Wells Machinery Co.

BITUMINOUS DISTRIBUTORS
Wm. Bros. Boiler & Mfg. Co.
Essick Manufacturing Co.
E.D. Etnyre Co.
Foote Co., Div. Blaw Knox Co.
Gunnison Manufacturing Co.
Littleford Bros., Inc.
Municipal Supply Co.
Rosco Manufacturing Co.
Spears-Wells Machinery Co.
Standard Steel Works

BITUMINOUS HAUL TANKS
E.D. Etnyre & Co.
Gunnison Manufacturing Co.
Littleford Bros., Inc.
Spears-Wells Machinery Co.
Standard Steel Works
Rosco Manufacturing Co.

BITUMINOUS MIXING PLANTS
Berber-Greene Co.
F.D. Cummer & Son Co.
Hetherington & Berner, Inc.
Iowa Manufacturing Co.
Koehring Co.
Kwik-Mix Co.
Littleford Bros., Inc.
Madsen Iron Works, Inc.
Pioneer Engineering Works
White Manufacturing Co.
Wylie Manufacturing Co.

BLAST CLEANING EQUIPMENT
Air Placement Eqp't. Co.
Sensstorm Manufacturing Co.
Victor Equipment Co.

BLOCKS & SHEAVES
American Hoist & Derrick Co.
Gar Wood Industries, Inc.
Hewitt-Robins, Inc.
M.P. McCaffrey, Inc.
Pace Engineering Co.
Sauerman Bros.
Owen Bucket Co.

BLOWERS
Homelite Div.
Ingersoll-Rand Co.
Skill Corp.

BOILERS, STEAM
Wm. Bros. Boiler & Mfg. Co.
Cleaver Brooks Co.
Littleford Bros., Inc.
McKiernan-Terry Corp.
Mississippi Valley Eqp't. Co.

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BOOMS

Colby Steel & Mfg. Co.
M.P. McCaffrey, Inc.
Pacific Car & Foundry Co.

BOOSTERS

Cleaver Brooks Co.
Gardner-Denver Co.
W.E. Grace Mfg. Co.

BRIDGES, SUSPENSION

Behlheim Pacific Corp.
Columbia-Geneva Steel Co.
John A. Roebling Sons Corp.

BUCKETS, CLAMSHELL

Austin-Western Co.
Blaw Knox Co.
Electric Steel Foundry Co.
Geo. Halss Mfg. Co.
C.S. Johnsons Co.
Jos. F. Klesler Co.
Koehring Co.
M.P. McCaffrey, Inc.
Ottawa Steel Div.
Owen Bucket Co.
Pettibone-Mulliken Corp.
Scheld Bantam Co.
Wellman Engineering Co.
Yuba Manufacturing Co.

BUCKETS, CONCRETE

American Tractor Corp.
Blaw Knox Co.
Gar-Bro Manufacturing Co.
Hetzl Steel Form & Iron Co.
Insley Manufacturing Co.
C.S. Johnsons Co.
Koehring Co.
Martin Iron Works
Miller & Smith Mfg. Co., Inc.
Noble Company
Tempo Manufacturing Co.

BUCKETS, DRAGLINE

Bucyrus-Erie Co.
Drake-Williams-Mount Co.
Electric Steel Foundry Co.
Geo. Halss Mfg. Co.
Hendrix Manufacturing Co.
Insley Manufacturing Co.
M.P. McCaffrey, Inc.
Owen Bucket Co.
Page Engineering Co.
Pettibone-Mulliken Corp.
Quick-Way Truck Shovel Co.
Sauerman Bros.
Scheld Bantam Co.
Wellman Engineering Co.

BUCKET LOADERS

American Tractor Corp.
Badger Machine Co.
Baker-Lull Corp.
Barber-Greene Co.
Droft Manufacturing Co.
Eagle Crusher Co.
Geo. Halss Mfg. Co.
Hydraulic Tool & Eqp't. Co.
Lippman Engineering Works
Mixermobile Distributors, Inc.
Oliver Corp.
Ottawa Steel Div.
Earl H. Pence & Co., Inc.
Pettibone-Mulliken Corp.
Reese Engineering Co.
Schramm, Inc.
Sherman Products, Inc.
Ulrich Products Corp.
Wagner Iron Works

BULLCLAMS

Droft Manufacturing Co.

BULLDOZERS

Allis-Chalmers Mfg. Co.
American Coleman Co.
American Tractor Corp.
Austin-Western Co.
Atlas Scraper & Engineering Co.
Baker Manufacturing Co.
Baker-Lull Corp.
Wm. Bros. Boller & Mfg. Co.
Caterpillar Tractor Co.
Droft Manufacturing Co.
Elmco Corp.
Gar Wood Industries, Inc.
LeTourneau-Westinghouse Co.
Mixermobile Distributors, Inc.
M-R-S Manufacturing Co.
Oliver Corp.
Ottawa Steel Div.
Earl H. Pence & Co., Inc.
Perfection Steel Body Co.
Shawnee Manufacturing Co.
West Coast Machinery Co.
Woodridge Mfg. Co.

BULLDOZER BLADES

American Tractor Corp.
Baker-Lull Corp.
Colorado Fuel & Iron Corp.
Electric Steel Foundry Co.
Hell Company
Hensley Equipment Co.
Hydraulic Tool & Eqp't. Co.
Earle M. Jorgensen Co.
LeTourneau-Westinghouse Co.
Oliver Corp.
Rockland Allied Eqp't. Corp.
Shunk Manufacturing Co.
West Coast Machinery Co.
Wright Power Saw & Tool Co.

C

CABLEWAYS

Behlheim Pacific Corp.
Columbia-Geneva Steel Co.
John A. Roebling's Sons Corp.
Sauerman Bros.
Superior-Lidgerwood-Mundy Corp.

CAR PULLERS

American Hoist & Derrick Co.
Bodinson Manufacturing Co.
Clyde Iron Works, Inc.
Hewitt-Robins, Inc.
Frank G. Hough Co.
Stephens-Adamson Mfg. Co.
Superior-Lidgerwood-Mundy Corp.

CAR SCOOPS

Butler Bln Co.

CHAIN SAWS

Homelite Div.
Mail Tool Co.
McClulloch Motors Corp.
Schramm, Inc.
Skill Corp.

CIRCULATORS

Barnes Manufacturing Co.
Wm. Bros. Boller & Mfg. Co.

CLAY DIGGERS

Arrow Tools, Inc.
Brunner & Lav, Inc.
Chicago Pneumatic Tool Co.
Gardner-Denver Co.
Ingersoll-Rand Co.
LeRoi Division
Schramm, Inc.
Thor Power Tool Co.

CLAY SPADES

Arrow Tools, Inc.
Barco, Mfg. Co.
Brunner & Lav, Inc.
Chicago Pneumatic Tool Co.
Ingersoll-Rand Co.
LeRoi Division
Schramm, Inc.
Thor Power Tool Co.
Worthington Corp.

COMPRESSORS

Chicago Pneumatic Tool Co.
Davey Compressor Co.
Essick Manufacturing Co.
Gardner-Denver Co.
Ingersoll-Rand Co.
Jaeger Machine Co.
Joy Manufacturing Co.
LeRoi Division
Miss. Valley Eqp't. Co.
Morse Bros. Machinery Co.
O.K. Clutch & Machinery Div.
Schramm, Inc.
Worthington Corp.

CONCRETE BREAKERS

Arrow Tools, Inc.
Barco Manufacturing Co.
Brunner & Lav, Inc.
Chicago Pneumatic Tool Co.
K.O. Duncan Co.
Eagle Iron Works
Gardner-Denver Co.
Ingersoll-Rand Co.
Joy Manufacturing Co.
LeRoi Division
Ottawa Steel Div.
R.P.B. Corp.
Schramm, Inc.
Stanco Manufacturing Co.
Thor Power Tool Co.
Wersop Power Tools, Inc.

CONCRETE CARTS

Gar-Bro Mfg. Co.
W.E. Grace Mfg. Co.
Hovry-Berg Steel & Iron Wks.
Insley Manufacturing Co.
Koehring Co.
Kwik-Mix Co.
Prime Mover Co.
Superior Scaffold Co.
Whiteman Mfg. Co.

CONCRETE FINISHING MACHINES

Blaw Knox Co.
Flexible Road Joint Mch'y. Co.
Jaeger Machine Co.
Koehring Co.
Madison Iron Works, Inc.
Mail Tool Co.
Stow Manufacturing Co.
Whiteman Mfg. Co.

CONCRETE FORM TIES

Economy Forms Co.
Gates & Sons, Inc.
H.S. Krueper Co.
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.
Supremix, Inc.
Wagner Iron Works

CONCRETE HEATERS

Aerol Products, Inc.
Littleford Bros., Inc.
Moretemp Heat Machine Co.

CONCRETE PAVING SPREADERS

Blaw Knox Co.
Flexible Road Joint Mach. Co.
Foote Co., Div. Blaw Knox Co.
Jaeger Machine Co.
Koehring Co.
Stow Manufacturing Co.
Whiteman Mfg. Co.

CONCRETE PLACING EQUIPMENT

Air Placement Eqp't. Co.
Chain Belt Co.
Chicago Pneumatic Tool Co.
Construction Machinery Co.
Hovry-Berg Steel & Iron Works
Insley Manufacturing Co.
Jaeger Machine Co.
Koehring Co.
Kwik-Mix Co.
Mixermobile Distributors, Inc.
Pettibone Wood Mfg. Co.
Scheld Bantam Co.
Stow Manufacturing Co.
Thew Shovel Co.
Universal Form Clamp Co.
Whiteman Mfg. Co.

CONCRETE SAWS

Clipper Manufacturing Co.
Concrete Sawing Eqp't. Co.
Construction Machinery Co.
Eveready Brlsaw Co.
Felter Manufacturing Co.
Skill Corp.
Thor Power Tool Co.

CONCRETE SURFACERS

Air Placement Eqp't. Co.
Concrete Surfacing Mch'y. Co.
Flexible Road Joint Mch'y. Co.
Koehring Co.
Mail Tool Co.
Stow Manufacturing Co.
Thor Power Tool Co.
White Manufacturing Co.
Whiteman Mfg. Co.

CONVEYORS

Atlas Conveyor Co.
Baldwin-Lima-Hamilton Corp.
Barber-Greene Co.
Baughman Mfg. Co.
Bodinson Mfg. Co.
Chain Belt Co.
Construction Machinery Co.
Conveyor Co.
Diamond Iron Works
Fairfield Engineering Co.
Geo. F. Halss Mfg. Co.
Hercules Steel Products Co.
Hewitt-Robins, Inc.
Hovry-Berg Steel & Iron Works
Insley 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 Works
Stephens-Adamson Mfg. Co.
Straus Manufacturing Co.
Tempo Manufacturing Co.
Universal Engineering Corp.
Willard Concrete Mch'y. Sys. Co.
Yuba Manufacturing Co.

CRANES

American Hoist & Derrick Co.
Austin-Western Co.
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
Marion-Osgood-General
Michigan (Clark Eqp't. Co.)
Miss. Valley Eqp't. Co.
Northwest Engineering Co.
Osgood-General
Pacific Car & Foundry Co.
Pettibone-Mulliken Corp.
Pitman Manufacturing Co.
Quick-Way Truck Shovel Co.
Scheld Bantam Co.
Thew Shovel Co.
Unit Crane & Shovel Corp.
Versatile Hydraulic Co.
Wayne Shovel & Crane Div.

CRANES, TRUCK

American Hoist & Derrick Co.
Austin-Western Co.
Badger Machine Co.
Baldwin-Lima-Hamilton Corp.
Bay City Shovel, Inc.
Browning Crane & Shovel Co.
Bucyrus-Erie Co.
Byers Manufacturing Co.
Cook Bros. Equipment Co.
Gar Wood Industries, Inc.
General-Osgood Co.
Hanson Clutch & Machinery Co.
Harnischfeger Corp.
Hughes-Keenan Co.
Hyster Company
Insley Manufacturing Co.
Kenworth Motor Truck Co.
Koehring Co.
Little Giant Crane & Shovel
Link Belt Speeder Corp.
Miss. Valley Eqp't. Co.
Pettibone-Mulliken Corp.
Quick-Way Truck Shovel Co.
Skaiff Steel & Iron Works
Scheld Bantam Co.
Stanco Manufacturing Co.
Thew Shovel Co.
Unit Crane & Shovel Co.
Versatile Hydraulic Crane Co.
Wayne Shovel & Crane Div.

CRANES, WAGON

American Hoist & Derrick Co.
Baldwin-Lima-Hamilton Corp.
Bay City Shovel, Inc.
Browning Crane & Shovel Co.
Byers Manufacturing Co.
Cook Bros. Equipment Co.
Hanson Clutch & Mch'y. 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 Co.
Baldwin-Lima-Hamilton Corp.
Badger Machine Co.
Browning Crane & Shovel Co.
Byers Manufacturing Co.
Elmco Corp.
Euclid Div., General Motors
Hanson Clutch & Mch'y. Co.
Harnischfeger Corp.

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

CRAWLERS (CONTINUED)

Frank G.Hough Co.
International Harvester Co.
Koehring Co.
Link Belt Speeder Corp.
Little Giant Crane & Shovel
Oliver Corp.
Schield Bantam Co.
Thev Shovel Co.
Unit Crane & Shovel Corp.

CRUSHERS

Baldwin-Lima-Hamilton Corp.
Brooks Equipment & Mfg. Co.
Browning Manufacturing Co.
Diamond Iron Works
Conveyor Co.
Eagle Crusher Co.
Hewitt-Robins, Inc.
Iowa Manufacturing Co.
Lippman Engineering Works
Morse Bros. Machinery Co.
Nordberg Mfg. Co.
Pioneer Engineering Works
Smith Engineering Works
Stephens-Adamsom Mfg. Co.
Straub Manufacturing Co.
Traylor Engrg. & Mfg. Co.
Universal Engineering Corp.

CRUSHING PLANTS

Athey Products Corp.
Baldwin-Lima-Hamilton Corp.
Bodinson Manufacturing Co.
Conveyor Co.
Diamond Iron Works
Geo. Halss Mfg. Co.
Hovry-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-Adamsom Mfg. Co.
Traylor Engineering & Mfg. Co.
Universal Engineering Corp.

CULVERTS

Armco Drainage & Metal Prods.

CURB & GUTTER FORMS

Blaw Knox Co.
Heltzel Steel Form & Iron Corp.

CUTTERS, WIRE ROPE

Morse-Starratt Products Co.

D

DANGER BEACONS

Cetaphote Corp.

DEMOLITION TOOLS

Barco Manufacturing Co.
Brunner & Lay, Inc.
Chicago Pneumatic Tool Co.
K.O.Duncan Co.
Ingersoll-Rand Co.
McCaffrey, M.P., Inc.
Ottawa Steel Div.
Schramm, Inc.
Thor Power Tool Co.

DERRICKS

American Holst & Derrick Co.
Glyde Iron Works
Four Wheel Drive Auto Co.
Highway Trailer Co.
Miss. Valley Eqp't. 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 Mfg. Co., Inc.
Cleveland Trencher Co.
Gar Wood Industries, Inc.
Gradall Div., Warner Swasey Co.
Hydraulic Tool & Eqp't. Co.
Jetco, Inc.
Koehring Co.
Northwest Engineering Co.
Ottawa Steel Div.
Parsons Company
Shawnee Manufacturing Co.

DRAGLINES

American Holst & Derrick Co.
Baldwin-Lima-Hamilton Corp.
Bay City Shovel, Inc.
Bethlehem Pacific Corp.
Browning Crane & Shovel Co.
Bucyrus-Erie Co.
Byers Manufacturing Co.
Clark Eqp't. Co.(Constr.Div.)
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
Marion-Osgood-General
Miss. Valley Eqp't. Co.
Northwest Engineering Co.
Page Engineering Co.
Quick-Way Truck Shovel Co.
Schield Bantam Co.
Skagit Steel & Iron Works
Thev Shovel Co.
Unit Crane & Shovel Corp.
Wayne Shovel & Crane Div.

DREDGING EQUIPMENT

Eagle Iron Works
Eslick Manufacturing Co.
Harnischfeger Corp.
Hetherington & Berner, Inc.
Little Giant Crane & Shovel Co
Rockland Allied Eqp't. 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.
Felter Manufacturing Co.
Gardner-Denver Co.
Ingersoll-Rand Co.
Joy Manufacturing Co.
LeRol Division
Mail Tool Co.
McCulloch Motors Corp.
Powder Power Tool Corp.
Salem Tool Co.
Skill Corp.
Stanco Mfg. Co.
Thor Power Tool Co.
Timken Roller Bearing Co.
Worssop Power Tools, Inc.
Winter-Weiss Co.
Worthington Corp.

DRYERS

Madsen Works Division

DUMMY JOINTS

Flexible Road Joint Mch'y.Co.

DUMP BODIES

Anthony Company
Cook Bros. Equipment Co.
Euclid Div., General Motors
Galion Allsteel Body Co.
Gar Wood Industries, Inc.
Hercules Steel Products Co.
Heil Company
Marion Metal Products Co.
LeTourneau-Westlinghouse Co.
Perfection Steel Body Co.
St.Paul Hydraulic Holst Div.

DUMP TRAILERS

Anthony Company
Athey Products Corp.
Baughman Mfg. Co.
Cook Bros. Eqp't. Co.
Euclid Div., General Motors
Galion Allsteel Body Co.
Gar Wood Industries, Inc.
Heil Company
Hercules Steel Products Co.

Hobbs Manufacturing Co.
LeTourneau-Westlinghouse 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.
Mail 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 Eqp't. Co.
D.W.Onan & Sons, Inc.
Ready Power Co.
White Motor Co.

ELEVATORS

American Holst & Derrick Co.
Barber-Greene Co.
Baughman Mfg. Co.
Bodinson Mfg. Co.
Butler Bin Co.
Cblby Steel Form & Iron Co.
Construction Machinery Co.
Conveyor Co.
F.D.Cummer & Son Co.
Heltzel Steel Form & Iron Co.
Iowa Manufacturing Co.
C.S.Johnson Co.
Madsen Iron Works, Inc.
Miller & Smith Mfg. Co., Inc.
Noble Company
O.K.Machinery Co.
Lippman Engineering Works
Stephens-Adamsom Mfg. Co.

ENGINES, AIR COOLED

Briggs & Stratton Corp.
Continental Motors Corp.
Crafcon Company
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.
Minneapolis-Moline Co.
Miss. Valley Eqp't. 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.
Hercules Motor Corp.
Homelite Div.
Ingersoll-Rand Co.
LeRol 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.
Iowa Manufacturing Co.
Lippman Engineering Works
Miller & Smith Mfg. Co., Inc.
Nordberg Mfg. Co.
Pioneer Engineering Works
Simplicity Engineering Co.
Smith Engineering Works
Stephens-Adamsom Mfg. Co.
Straub Manufacturing Co.
Traylor Engr. & 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.
Dolmar Industries, Inc.
Flexible Road Joint Mch'y.Co.
Foote Co., Div.,Blaw Knox 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 Motor Truck Co.
McCulloch Motors Corp.
Porto Pump, Inc.
White Motor Co.

FLAME THROWERS

Ker-Q-Kill Mfg. Co.

FLEXIBLE SHAFTS

Mail Tool Co.
Master Vibrator Co.
Stow Manufacturing Co.

FLOOD LIGHTS

Homelite Div.

FLOTATION MACHINES

Morse Bros. Machinery Co.
Straub Manufacturing Co.

FOLDING SCRAPERS

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.
Universal Form Clamp Co.

FOUNDATIONS

Raymond Concrete Pile Co.

FRONT END LOADERS

Allis-Chalmers Mfg. Co.
American Tractor Eqp't. Co.
Baker-Lull Corp.
J.I.Case Co.
Clark Equipment Co.
Drott Manufacturing Co.
Elmco Corp.
Geo. Halss Mfg. Co.
Frank G.Hough Co.
Hovry-Berg Steel & Iron Works
Hydraulic Tool & Eqp't. Co.
Jaeger Machine Co.
LeRol Division

Continued on next page

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

FRONT END LOADERS (CONTINUED)

Mixmobile Distributors, Inc.
Oliver Corp.
Ottawa Steel Div.
Perfection Steel Body Co.
Pettibone-Mulliken Corp.
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.
Butler Bin Co.
Colorado Fuel & Iron Corp.
Gar-Bro Mfg. Co.
Hovry-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-Adams Mfg. Co.
Straub Manufacturing Co.

GENERATOR SETS

Buda Company
Cummins Engine Co.
Detroit Diesel Engine Div.
Electric Taper Eqt. Co.
Harnischfeger Corp.
Hobart Bros.
Homelite Div.
Jackson Vibrators, Inc.
LeRol Division
LeTourneau-Westinghouse Co.
Maginnis Power Tool Co.
Mall 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

J.D. Adams Mfg. Co.
Allis-Chalmers Mfg. Co.
Austin-Western Co.
Briscoe Mfg. Co.
Caterpillar Tractor Co.
Gallon Iron Works & Mfg. Co.
Gledhill Road Machinery Co.
Gradall Div., Warner-Swasey Co.
Huber Manufacturing Co.
Mell-Blumberg Co.
Pettibone-Mulliken Corp.
W.A. Riddell Co.
Rome Grader Co.
Wausau Iron Works

GRADER BLADES

J.D. Adams Mfg. Co.
Austin-Western 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.

GRAPPLERS

Austin-Western Co.
Badger Machine Co.
Blaw Knox Co.
Browning Crane & Shovel Co.
Electric Steel Foundry Co.
M.P. McCaffrey, Inc.
Owen Bucket Co.
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
Hovry-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-Adams 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
Mall 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 Eqt. Corp.

H

HAMMERS

Arrow Tools, Inc.
Barco Manufacturing Co.
Black & Decker Mfg. Co.
Dotmar Industries, Inc.
Electric Steel Foundry Co.
Master Vibrator Co.
McKlerman-Terry Corp.
Ottawa Steel Div.
Skill Corp.
Stanco Mfg. Co.
Thor Power Tool Co.
Vulcan Iron Works

HAMMERMILLS

Brooks Eqt. & Mfg. Co.
Diamond Iron Works
Eagle Crusher Co.
Geo. Halss Mfg. Co.
Iowa Manufacturing Co.
Lippman Engineering Works
Morse Bros. Machinery Co.
Universal Engineering Corp.

HAND WINCHES

Gripholst, Inc.
Skaft Steel & Iron Works
Stephens-Adams Mfg. Co.

HEATERS, PORTABLE

American Air Filter Co.
Herman Nelson Div.
Arthur C. Baumann Co.
W.L. Childers Co.
Cleaver Brooks Co.
International Mfg. Co.
Madsen Iron Works, Inc.
Malabar Mfg. Co.
Master Vibrator Co.
Silent Glow Oil Burner Corp.

HIGHWAY & STREET MARKERS

Catepote Corp.
Copperveld Steel Co.
Hawkins-Hawkins Co.
M-B Corp.
Mell-Blumberg Co.
Zumar Industries

HIGHWAY GUARD RAILS

Armco Drainage & Metal Prods.
Hawkins-Hawkins Co.
U.S. Spring & Bumper Co.

HIGHWAY WIDENERS

Burch Corp.
Dotmar Industries, Inc.
Ulrich Products Corp.
Whiteman Mfg. Co.

HOISTS

American Hoist & Derrick Co.
Anthony Company
Beebe Bros.
Brooks Equipment & Mfg. Co.
C.H. & E. Mfg. Co.
Chicago Pneumatic Tool Co.
Clippard Mfg. Co.
Clyde Iron Works, Inc.
Coffing Hoist Division
Commercial Shearing Co.

Construction Machinery Co.
Cook Bros. Equipment Co.
Duff-Norton Mfg. Co.
Essick Mfg. Co.
Gallon Allsteel Body Co.
Gar Wood Industries, Inc.
Gripholst, Inc.
Harnischfeger Corp.
Hell 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 Eqt. Co.
Morse Bros. Machinery Co.
Nordberg Mfg. Co.
Novo Engine Co.
O.K. Machinery Division
Pacific Car & Foundry Co.
Perfection Steel Body Co.
Sauermaier Bros., Inc.
St. Paul Hydraulic Div.
Sesgen Derrick Co.
Skagit Steel & Iron Works
Stephens-Adams Mfg. Co.
Sterling Machinery Co.
Superior-Lidgerwood-Mundy Co.
Thomas Holst Co.
Thor Power Tool Co.
Unit Manufacturing Co.
Versatile Hydraulic Crane 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.
Hovry-Berg Steel & Iron Works
Insley Manufacturing Co.
Koehring Co.
Miller & Smith Mfg. Co., Inc.
Noble Company
Lippman Engineering Works

HYDRAULIC COUPLINGS

Aeroquip Corp.
American Tractor Eqt. Corp.
Car-Lynn Co.
Chiksan Co.
Dixon Valve & Coupling Co.
Hydraulic Tool & Eqt. Co.
Oliver Corp.
Rodgers Hydraulic, Inc.
Twin Disc Clutch Co.
Ulrich Products Corp.

I

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.
Brooks Equipment & Mfg. Co.
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 Mach. Co.

K

KETTLES, HEATING

Aeroli Products Co., Inc.
Blaw Knox Co.
Clippard Mfg. Co.
Hauk 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 Co.
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.
Hovry-Berg Steel & Iron Works
Oliver Corp.

LIFT GATES

Anthony Company
Gallon Allsteel Body Co.
Gar Wood Industries, Inc.
Hell Company
Hercules Steel Products Co.
Hobbs Manufacturing Co.
Marion Metal Products Co.
S.Morgan Smith Co.
St. Paul Hydraulic Div.

LIGHTING PLANTS

Harnischfeger Corp.
D.W. Onan & Sons, Inc.
Ready Power Co., Inc.
U.S. Motors Corp.

LOADERS

Allis-Chalmers Co.
J.D. Adams Mfg. Co.
American Tractor Corp.
American Tractor Eqt. Corp.
Atthey Products Corp.
Austin-Western Co.
Badger Machine Co.
Baker-Lull Corp.
Barber-Greene Co.
Brooks Equipment & Mfg. Co.
J.L. Case Co.
Clark Equipment Co.
Drott Manufacturing Co.
Eagle Crusher Co.
Elmo Corp.
Euclid Div., General Motors
General Motors Div., Euclid
Geo. Halss Mfg. Co.
Harnischfeger Corp.
Frank G. Hough Co.
Hyster Company
Jaeger Machine Co.
Joy Manufacturing Co.
Lippman Engineering Works
Mid-Western Industries, Inc.
Mixmobile 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-Adams Mfg. Co.
Theer Shovel Co.
Tractomotive Corp.
Ulrich Products Corp.
Versatile Hydraulic Crane Co.
Wagner Iron Works
West Coast Machinery Co.

LOGGING ARCHES

Hyster Company
LeTourneau-Westinghouse Co.
Pacific Car & Foundry Co.

LOGGING TOOLS

American Logging Tool Corp.

M

MAGNETS

Austin-Western Co.
Owen Bucket Co.
Schield Bantam Co.
F.W. Shrader Co.

MAGNET CHARGERS

D.W. Onan & Sons, Inc.
Ready Power Co.

MAGNET REELS

McCaffrey-Ruddock Tag. Corp.
Owen Bucket Co.

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

MAINTAINERS

Austin-Western Co.
Burch Corp.
Gallion Iron Works & Mfg. Co.
Gledhill Road Machinery Co.
Huber Manufacturing Co.
Mellin-Blumberg Corp.
Tractomotive Corp.

MIXERS

Air Placement Eqp't. Co.
Barber-Greene Co.
Blaw Knox Co.
Chain Belt Co.
C.H.&E. Mfg. Co.
Concrete Transport Mixer Co.
Construction Machinery Co.
Cook Bros. Equipment Co.
F.D.Cummer & Son Co.
Dorr-Oliver, Inc.
Esslick Manufacturing Co.
Foote Co., Div. Blaw Knox 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-Adams Mfg. Co.
SuPremix, Inc.
Worthington Corp.

MIXING PLANTS

Barber-Greene Co.
Blaw Knox Co.
Bodinson Mfg. Co.
Butler Bin Co.
Concrete Transport Mixer Co.
Construction Machinery Co.
Cook Bros. Equipment Co.
Conveyor Co.
Heltzel Steel Form & Iron Co.
Iowa Manufacturing Co.
C.S. Johnson Co.
Kwik-Mix Co.
Mixermobile Distributors, Inc.
Noble Company
SuPremix, Inc.

MUD JACKS

Koehring Co.

O

OIL BURNERS

Aeroll 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.
Dohm Industries, Inc.
Doug-Lynn Mfg. Co.
Foote Construction Eqp't. Div.
Hetherington & Berner, Inc.
Iowa Manufacturing Co.
Koehring Co.
Pioneer Engineering Works
Worthington Corp.

PAVEMENT BREAKERS

Arrow Tools, Inc.
Barco Manufacturing Co.
Brunner & Lav, Inc.
Chicago Pneumatic Tool Co.
Gardner-Denver Co.
Ingersoll-Rand Co.
Joy Manufacturing Co.
LeROI Division
Novo Engine Co.
Ottawa Steel Div.
R.T.B. Corp.
Rockland Allied Eqp't. Corp.
Schramm, Inc.
Thor Power Tool Co.
Warsop Power Tools, Inc.
Worthington Corp.

PAVING FORMS

Blaw Knox Co.
Heltzel Steel Form & Iron Co.

PEN STOCKS

Chicago Bridge & Iron Corp.

PILE EXTRACTORS

Contractors Machinery Co.
McKiernan-Terry Corp.
Miss. Valley Eqp't. Co.
Vulcan Iron Works

PILE HAMMERS

Browning Crane & Shovel Co.
Clyde Iron Works, Inc.
Consolidated Machy. & Supply
Contractors Machinery Co.
Eagle Iron Works
Little Giant Crane & Shovel Co.
McKiernan-Terry Corp.
Miss. Valley Eqp't. 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 Eqp't. Co.

POST DRIVERS

Little Giant Crane & Shovel Co.

POWER CONTROL UNITS

Allis-Chalmers Mfg. Co.
Be-Ge Manufacturing Co.
Baker Manufacturing Co.
Caterpillar Tractor Co.
Char-Lynn Co.
International Harvester Co.
Kay Brunner Steel Prod. 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.
Electric Taper & Eqp't. Co.
Fairfield Engineering Co.
Harnischfeger Corp.
Hobart Bros.
Homelite Div.
Jackson Vibrators, Inc.
Kohler Company
LeTourneau-Westinghouse Co.
Master Vibrator Co.
Magnolia Power Tool Co.
Miss. Valley Eqp't. Co.
Morse Bros. Machinery Co.
Nordberg Mfg. Co.
D.W. Onan & Sons, Inc.
Ready Power Co.
Stephens-Adams Mfg. Co.

POWDER ACTUATED TOOLS

Hubbard Company
Powder Power Tool Corp.
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 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.
Hanson Clutch & Machinery Co.
Harnischfeger Corp.
Insley Mfg. Co.
Koehring Co.
Little Giant Crane & Shovel, Inc.
Link Belt Speeder Corp.

Marlon-Osgood-General
Northwest Engineering Co.
Quick-Way Truck Shovel Co.
Schield Bantam Co.
The Shovel Co.
Unit Crane & Shovel Corp.
Wayne Shovel & Crane Div.

PULVERIZERS

Eagle Crusher Co.
Brooks Equipment & Mfg. Co.
Gilson Bros. Co.
Iowa Manufacturing Co.
Lippman Engineering Works
Morse Bros. Machinery Co.
Oliver Corp.
Perfection Steel Body Co.
Pettibone 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.
Esslick Manufacturing Co.
Gardner-Denver Co.
Gorman-Rupp Co.
Homelite Div.
Ingersoll-Rand Co.
Jaeger Machine Co.
Lincoln Engineering Co.
Mall 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. Morran Smith Co.
Sanco Manufacturing Co.
Sterling Machinery Co.
Thor Power Tool Co.
Viking Pump Co.
Wausau Iron Works
Worthington Corp.

R

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

Brooks Equipment & Mfg. Co.
Gar Wood Industries, Inc.
Good Roads Machinery Co.
Hell Company
M-B Corp.
Marlon Metal Products Co.
St. Paul Hydraulic Div.
Towner Manufacturing Co.

RIPPERS

American Tractor Corp.
Atlas Scraper & Engineering Co.
Baker Manufacturing Co.
Caterpillar Tractor Co.
Drott Manufacturing Co.
Electric Steel Foundry Co.
Gar Wood Industries, Inc.
H & L Tooth Co.
Hensley Equipment Co.
Hydraulic Tool & Eqp't. Co.
LeTourneau-Westinghouse Co.
Los Angeles Steel Casting Co.
Rockland Allied Eqp't. Corp.
Southwest Welding & Mfg. Co.
Tractomotive Corp.
Woodridge Manufacturing Co.

ROAD MIXERS

Austin-Western Co.
Barber-Greene Co.
Burch Corp.
Foote Co., Div. Blaw Knox Co.
Harnischfeger Corp.
Kwik-Mix Co.

Pettibone-Wood Mfg. Co.
Seaman Motors, Inc.

ROCK BITS

Brunner & Lav, Inc.
Chicago Pneumatic Tool Co.
Hensley Equipment Co.
Ingersoll-Rand Co.
LeROI Div.
Schramm, Inc.
Slanco Mfg. Co.
Timken Roller Bearing Co.
Thor Power Tool 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
Salem Tool Co.
Schramm, Inc.
Slanco 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
Geo. Hais Mfg. Co.
Frank G. Hough Co.
Hovry-Berg Steel & Iron Works
Iowa Manufacturing Co.
Lippman Engineering Works
Miller & Smith Mfg. Co., Inc.
Pioneer Engineering Works
Rockland Allied Eqp't. Co.
Smith Engineering Works
Straub Manufacturing Co.
The Shovel Co.
Unit Crane & Shovel Co.
Universal Engineering Corp.

ROCK & SAND M

Bodinson Manufacturing Co.
Conveyor Co.
Iowa Manufacturing Co.
Madsen Iron Works
Pioneer Engineering Works

ROLLERS, ROAD

All Purpose Spreader Co., Inc.
Austin-Western Co.
Wm. Bros. Roller & Mfg. Co.
Buffalo-Springfield Roller Co.
C.H.&E. Mfg. Co.
Erick Mfg. Co.
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
Tempo Manufacturing Co.

ROTARY SNOW PLOWS

J.D. Adams Mfg. Co.
Austin-Western Co.
Wm. Bros. Roller & 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 Eqp't. Co.
Safetec Products Co.
Sanstorm Mfg. Co.
Schramm, Inc.
Victor Equipment Co.

SAWS, POWER

Black & Decker Mfg. Co.
C.H.&E. Mfg. Co.
Chicago Pneumatic Tool Co.
Clippner Mfg. Co.
Consolidated Machy. & Supply

CONTINUED ON NEXT PAGE

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

SAWS, POWER (CONTINUED)

Construction Machinery Co.
DeWalt, Inc.
Felter 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. Mfg. Co.
Clippner Mfg. Co.
Construction Machinery Co.
Oliver Corp.

SCALES, CONTRACTORS

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

J.D. Adams Mfg. Co.
American Tractor Corp.
Austin-Western Co.
Baker Manufacturing Co.
Drott Manufacturing Co.
Electric Steel Foundry Co.
Gallon Iron Works & Mfg. Co.
H & L Tooth Co.
Hensley Equipment Co.
Rockland Allied Eqp't. Corp.
Shunk Manufacturing Co.

SCRAPERS

Allis-Chalmers Mfg. Co.
American Tractor Eqp't. Corp.
Atlas Scraper & Engr. Co.
Be-Ge Manufacturing Co.
Burch Corp.
Caterpillar Tractor Co.
Colorado Fuel & Iron Corp.
Elmco Corp.
Euclid Div., G.M.C.
Gar Wood Industries, Inc.
Good Roads Machinery Co.
Hydraulic Tool & Eqp't. Co.
LeTourneau-Westinghouse Co.
Oliver Corp.
Sauerman Bros.
Southwest Welding & Mfg. Co.
Woodlridge Mfg. Co.

SCREENS

Baldwin-Lima-Hamilton Corp.
Bodinson Mfg. Co.
Colorado Fuel & Iron Corp.
Conveyor Co.
Diamond Iron Works
Hevitt-Robins, Inc.
Iowa Manufacturing Co.
Kolman Manufacturing Co.
Lippman Engineering Works
Morse Bros. Machinery Co.
Nornberg Mfg. Co.
Overstrom & Sons
Pioneer Engineering Works
Screen Equipment, Inc.
Simplicity Engineering Co.
Smith Engineering Works
Stephens-Adams Mfg. Co.
Straub Mfg. Co.
Symons Bros. Co.
Universal Engineering Corp.
Yuba Manufacturing Co.

SCREENS, VIBRATING

Hevitt-Robins, Inc.
Lippman Engineering Works
Overstrom & Sons
Simplicity Engineering Co.
Stephens-Adams Co.

SHEEPFOOT ROLLERS

Baker Manufacturing Co.
Wm. Bros. Boiler & Mfg. Co.
Browning Mfg. Co.
Electric Steel Foundry
LeTourneau-Westinghouse Co.
Los Angeles Steel Casting Co.
M.P. McCaffrey, Inc.
Southwest Welding & Mfg. Co.
Tampo Manufacturing Co.

SHOVELS, POWER

American Hoist & Derrick Co.
Austin-Western Co.
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 Eqp't. Co. (Michigan)
Cook Bros. Equipment Co.
Gar Wood Industries, Inc.
Hanson Clutch & Machinery Co.
Harnischfeger Corp.
Insley Mfg. Co.
Koehring Co.
Link Belt Speeder Corp.
Manitowoc Engineering Works
Marion-Osgood-General
Miss. Valley Eqp't. 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.

SIDE WALK FORMS

Blaw Knox Co.

SIDE WALK 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.

SNOW PLOWS

J.D. Adams Mfg. Co.
American Tractor Corp.
Atlas Scraper & Engineering Co.
Austin-Western Co.
Baker Manufacturing Co.
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.
Klawer Mfg. Co.
LeTourneau-Westinghouse Co.
Oliver Corp.
Schramm, Inc.
Ulrich Products Corp.
Wagner Iron Works
Walter Motor Truck Co.
Weausau Iron Works

SNOW VEHICLES

American Coleman Co.
Tucker-Sno-Cat Corp.
Walter Motor Truck Co.

SOIL COMPACTION UNITS

Austin-Western Co.
Baker Mfg. Co.
Barco Mfg. Co.
Wm. Bros. Boiler & Mfg. Co.
Buffalo-Springfield Roller Co.
Electric Tamper & Eqp't. Co.
W.E. Grace Mfg. Co.
Iowa Manufacturing Co.
Jackson Vibrators, Inc.
LeTourneau-Westinghouse Co.
Ottawa Steel Div.
Tampo Manufacturing Co.
Vibro-Plus Products, Inc.
Weyer Impactor, Inc.

SOIL STABILIZERS

Air Placement Equipment Co.
Austin-Western Co.
Harnischfeger Corp.
Hercules Steel Products Corp.
Madsen Works Div.
Rosco Manufacturing Co.
Seaman Motors, Inc.

SPREADERS

Baughman Mfg. Co.
Blaw Knox Co.
Burch Corp.
Essick Manufacturing Co.
Foote Co., Div. Blaw Knox Co.
Gledhill Road Machinery Co.
Good Roads Machinery Co.
Hercules Steel Products Co.
Highway Equipment Co.
Jaeger Machine Co.
Miller & Smith Mfg. Co., Inc.
Petlibone Wood Mfg. Co.
Spears-Wellis Machinery Co.
Standard Steel Works
Wausau Iron Works

STAND PIPES

Chicago Bridge & Iron Corp.

STEAM GENERATORS

Wm. Bros. Boiler & Mfg. Co.
Cleaver Brooks Co.
Littleford Bros., Inc.
Madsen Iron Works, Inc.
Malsbury Mfg. Co.
McKinnon-Terry Corp.
Miss. Valley Eqp't. Co.
Morse Bros. Machinery Co.

STEERING DEVICES

Gerrison Mfg. Co.
Superior-Lidgerwood-Mundy Corp.

STORAGE BINS

Armco Drainage & Metal Prods.
Blaw Knox Co.
Bodinson Mfg. Co.
Butler Bin Co.
Chicago Bridge & Iron Co.
Construction Machinery Co.
Conveyor Co.
F.D. Cummmer & Son Co.
Diamond Iron Works
Ger-Bro Mfg. Co.
Heltzel Steel Form & Iron Co.
Hovry-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.
Meili-Blumberg Co.
Zumar Industries

STREET FLUSHERS

E.D. Etnyre & Co.
Gunnison Mfg. Co.
Municipal Supply Co.
Rosco Manufacturing Co.
Spears-Wellis Machinery Co.
Standard Steel Works

STREET SWEEPERS

Austin-Western Co.
Baker-Lull Mfg. Co.
Conveyor Co.
W.E. Grace Mfg. Co.
Frank G. Hough Co.
M-B Corp.
Municipal Supply Co.
Rosco Mfg. Co.
Spears-Wellis Machinery Co.
Standard Steel Works
Wayne Manufacturing Co.

SUB GRADERS

Austin-Western Co.
Blaw Knox Co.

SUMP PUMPS

Barnes Mfg. 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.



TAG LINES

McCaffrey-Ruddock Tagline Corp

TAMPERS

Barco Mfg. Co.
Wm. Bros. Boiler & Mfg. Co.
Brunner & Ley, Inc.
Chicago Pneumatic Tool Co.
Cleveland Trencher Co.
Electric Tamper & Eqp't. Co.
Ger-Bro Manufacturing Co.
Gardner-Denver Co.
Gunderson-Taylor Machine Co.
Ingersoll-Rand Co.
Jackson Vibrators, Inc.
Joy Manufacturing Co.
LeRol Division
Master Vibrator Co.
Ottawa Steel Div.
R.P.B. Corp.
Schramm, Inc.
Thor Power Tool Co.

Vibro-Plus Products, Inc.
Weyer Impactor
Whiteman Mfg. Co.
Worthington Corp.

TAMPING ROLLERS

American Tractor Eqp't. Co.
Baker Manufacturing Co.
Blaw Knox Co.
Wm. Bros. Boiler & Mfg. Co.
W.E. Grace Mfg. Co.
Hyster Company
Iowa Manufacturing Co.
Lewins-Browning Mfg. Co.
Tampo Manufacturing Co.

TANDEM ROLLERS

Austin-Western Co.
Baker Manufacturing Co.
Buffalo-Springfield Roller Co.
C.H.&E. Mfg. Co.
Clyde Iron Works
Essick Manufacturing Co.
Gallon Iron Works & Mfg. Co.
Lewis-Browning Mfg. Co.
W.A. Riddell Co.

TANKS

Wm. Bros. Boiler & Mfg. Co.
Chicago Bridge & Iron Co.
Hovry-Berg Steel & Iron Works
Lippman Engineering Works
Littleford Bros., Inc.
Morse Bros. Machinery Co.
Spears-Wellis Machinery Co.

TANK CAR HEATERS

Wm. Bros. Boiler & Mfg. Co.
Cleaver Brooks Co.
W.E. Grace Mfg. Co.
Littleford Bros., Inc.
Spears-Wellis Machinery Co.

TRACTORS

Allis-Chalmers Mfg. Co.
American Coleman Co.
American Tractor Corp.
Bude Co. (Industrial)
J.L. Case Co.
Caterpillar Tractor Co.
Elmco Corp.
Euclid Div., General Motors
Four Wheel Drive Auto Co.
Harris Mfg. Co.
International Harvester Co.
LeRol Company
LeTourneau-Westinghouse Co.
Frank G. Hough Co.
Minneapolis-Moline Co.
Mixmobile Distributors, Inc.
M-R-S Mfg. Co.
Oliver Corp.
Earl H. Pence & Co., Inc.
Reese Engineering Co.

TRAFFIC LANE MARKERS

Cataphote Corp.
Gledhill Road Machinery Co.
Hawkins-Hawkins Co.
M-B Corp.
Meili-Blumberg 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. Mfg. Co.
Cleveland Trencher Co.
Cook Bros. Equipment Co.
Euclid Div., General Motors
Foster Trailer Co.
Four Wheel Drive Auto Co.
Fruehauf Trailer Co.
Gallon Allsteel Body Co.
Hanson Clutch & Machv. Co.
Hitcher Trailer Co.
Hobbs Manufacturing Co.
John Trailer Div.
LaCrosse Trailer Corp.
LeTourneau-Westinghouse Co.
Martin Machine Co.
Meili-Blumberg Corp.
Miller & Smith Mfg. Co., Inc.
Perfection Steel Body Co.
Rogers Bros. Corp.
Selma Manufacturing Co.
Towner Mfg. Co.
Trailmobile, Inc.
Transport Trailers, Inc.
Utility Trailer Mfg. Co.
Winter-Weiss Co.

TRANSMISSIONS

Fuller Manufacturing Co.
Stephens-Adams Mfg. Co.

C. I. T. CORPORATION

660 Market Street, San Francisco

416 West 8th Street, Los Angeles

Equitable Building, Portland

TRENCHERS

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.
Northwest Engineering Co.
Oliver Corp.
Parsons Co.
Quick-Way Truck Shovel Co.
Shawnee Mfg. Co.
Sherman Products, Inc.

TRENCH HOES

Badger Machine Co.
Barber-Greene Co.
Be-Ge Manufacturing Co.
Byers Manufacturing Co.
Electric Steel Foundry Co.
General-Osgood Co.
Gradall Div., Warner & Swasey
Hanson Clutch & Machinery Co.
Harnischfeger Corp.
Insley Manufacturing Co.
Koehring Co.
Little Giant Crane & Shovel, Inc.
Link Belt Speeder Corp.
Marion-Osgood-General
Manitowoc Engineering Corp.
Northwest Engineering Co.
Oliver Corp.
Oltava Steel Div.
Schield Bantam Co.
Shawnee Mfg. Co.
Thew Shovel Co.
Unit Crane & Shovel Corp.
Wagner Iron Works
Wayne Crane Division

TRUCKS

American Coleman Co.
Cook Bros. Equipment Co.
Dart Truck Co.
Dodge Div., Chrysler Corp.
Euclid Div., General Motors
General Motors, Euclid Div.
Four Wheel Drive Auto Co.
G.M.C. Truck & Coach Div.
International Harvester Co.
Kenworth Motor Truck Corp.
Koehring Co.
Mack Motor Truck Corp.
Marmon-Herrington Co.
Oshkosh Motor Truck, Inc.
Peterbilt Motors Co.
Reo Motors, Inc.
Sterling Div., White Motor Co.
Walter Motor Truck Co.
White Motor Co.

TRUCK BODIES

Anthony Company
Baughman Mfg. Co.
Cook Bros. Equipment Co.
Fruehauf Trailer Co.
Gallion Allsteel Body Co.
Gar Wood Industries, Inc.
Heil Company
Hercules Steel Products Corp.
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 Holst & Derrick Co.
Austin-Western Co.
Badger Machine Co.
Baldwin-Lima-Hamilton Corp.
Bay City Shovel, Inc.
Brooks Equipment & Mfg. Co.
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 Mfg. Co.
Koehring Co.
Little Giant Crane & Shovel
Link Belt Speeder Corp.
Manitowoc Engineering Corp.
Marion-Osgood-General
Northwest Engineering Co.
Quick-Way Truck Shovel Co.
Schield Bantam Co.
Thew Shovel Co.
Unit Crane & Shovel Corp.
Versatile Hydraulic Crane Co.
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 Mfg. Co.
Willard Concrete Machy. Co.
Worthington Corp.

TRUCK SHOVELS

American Holst & Derrick Co.
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.
Gradall Div., Warner & Swasey
Hanson Clutch & Machy. Co.
Harnischfeger Corp.
Insley Mfg. Co.
Koehring Co.
Little Giant Crane & Shovel, Inc.
Link Belt Speeder Corp.
Marion-Osgood-General
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.
Emco Corp.

VALVES

American Tractor Eqp't. Corp.
Atlas Scraper & Engineering Co.
Branick Mfg. Co.
Char-Lynn Co.
Commercial Shearing Co.
Dixon Valve & Coupling Co.
Garlison Mfg. Co.
Madsen Iron Works, Inc.
Martin Iron Works
Reese Engineering Co.
S. Morgan Smith Co.

VIBRATORS

Blaw Knox Co.
Butler Bln Co.
Chicago Pneumatic Tool Co.
Cleveland Vibrator Co.
Conveyor Co.
Dreyer Vibrator Co.
Electric Tamper & Eqp't. Co.
Gar-Bro Manufacturing Co.
Ingersoll-Rand Co.
Jackson Vibrators, Inc.
Magnitis Power Tool Co.
Mail Tool Co.
Marvel Equipment Co.
Master Vibrator Co.
Stephens-Adamson Mfg. Co.
Stow Manufacturing Co.
Thor Power Tool Co.
Viber Company
Vibro-Plus Products, Inc.
Waver Impactor, Inc.
White Mfg. Co.
Whiteman Mfg. Co.

VIBRATORY SCREEDS

Blaw Knox Co.
Bodinson Mfg. Co.
Electric Tamper & Eqp't. Co.
Iowa Manufacturing Co.
Jackson Vibrators, Inc.
Master Vibrator Co.
Stow Manufacturing Co.
Vibro-Plus Products, Inc.
Whiteman Mfg. Co.

W

WAGONS

Allis-Chalmers Mfg. Co.
Athey Products Corp.
Caterpillar Tractor Co.
C & D Mfg. Co.
Dart Truck Co.
Insley Manufacturing Co.
M.R.-S. Manufacturing Co.
Oliver Corp.
Perfection Steel Body Co.
Selma Trailer & Mfg. Co.
Southwest Welding & Mfg. Co.
Woodridge Mfg. Co.

WAGON CRANES

American Holst & Derrick Co.
Bay City Shovel, Inc.
Browning Crane & Shovel Co.
Clark Equipment Co.
Cook Bros. Equipment Co.
Hanson Clutch & Machy. Co.
Insley Mfg. Co.
Link Belt Speeder Corp.
Northwest Engineering Co.
Schield Bantam Co.
Unit Crane & Shovel Corp.
Wayne Shovel & Crane Div.

WAGON DRILLS

Brunner & Lav, Inc.
Chicago Pneumatic Tool Co.
Gardner-Denver Co.
Ingersoll-Rand Co.
Joy Manufacturing Co.
LeRoi Division
Schramm, Inc.
Thor Power Tool Co.
Versatile Hydraulic Crane Co.
Worthington Corp.

WASHING PLANTS

Baldwin-Lima-Hamilton Corp.
Bodinson Mfg. Co.
Conveyor Co.
Diamond Iron Works
Eagle Iron Works
Howry-Berg Steel & Iron Works
Iowa Manufacturing Co.
Lippman Engineering Works
Pioneer Engineering Works
Smith Engineering Works
Stephens-Adamson Mfg. Co.
Universal Engineering Corp.

WEIGHING BATCHERS

Blaw Knox Co.
Bodinson Mfg. Co.
Butler Bln Co.
Construction Machinery Co.
Conveyor Co.
Gar-Bro Mfg. Co.
Howry-Berg Steel & Iron Works
Iowa Manufacturing Co.
C.S. Johnson Co.
Koehring Co.
Miller & Smith Mfg. Co., Inc.
Noble Company

WELDERS

Harnischfeger Corp.
Hobart Bros.
Lincoln Electric Co.
National Welding Eqp't. Co.
Victor Equipment Co.

WHEELBARROWS

Gar-Bro Mfg. Co.
Koehring Co.
Kuik-Mix Co.
Prime Mover Co.

WHIRLEYS

American Holst & Derrick Co.
Clyde Iron Works, Inc.
Miss. Valley Eqp't. Co.

WINCHES

American Holst & Derrick Co.
American Tractor Corp.
Beebe Bros.
Chicago Pneumatic Tool Co.
Clyde Iron Works, Inc.
Essick Mfg. Co.
Four Wheel Drive Auto Co.
Gar Wood Industries, Inc.
Gripols, Inc.
Hewitt-Robins, Inc.
Highway Trailer Co.
Hobbs Mfg. Co.
Hyster Company
Maxl Corp.
O.K. Machinery Div.
Pacific Car & Foundry Co.
Sageen Derrick Co.
Skagit Steel & Iron Works
Stephens-Adamson Mfg. Co.
Superior-Lidgerwood-Mundy Corp.

WIRE ROPE

American Chain & Cable Co., Inc.
Bethlehem Pacific Coast Steel
Broderick & Bascom Rope Co.
Colorado Fuel & Iron Corp.
Columbia-Geneva Steel Co.
E.H. Edwards Co.
Jones & Laughlin Steel Corp.
Leschen Wire Rope Div.
LeTourneau-Westinghouse Co.
Macvhyte Company
Pacific Wire Rope Co.
John A. Roebling's Sons Corp.
Savermen Bros.
Union Wire Rope Co.
Wickwire Spencer Steel Div.

WOODWORKING MACHINERY

Black & Decker Mfg. Co.
C.H.E. Mfg. Co.
Consolidated Mch. & Supply Co.
DeWalt, Inc.
Skill Corp.

ADVERTISING

TO THE
CONSTRUCTION
INDUSTRY OF
THE WEST
AND ALASKA
IS A
REGIONAL JOB

- Construction needs, problems, and practices are different
- The West's construction problems differ from those in the rest of the U. S., but are common to the whole Western region
- Western contractors are regional operators—many work on projects anywhere in the West; most cross state borders continually

and

**Western
Construction**

Covers It ALL!

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

TRADE NAMES OF MANUFACTURERS

Only when the name of a product differs from the name of the manufacturer is that brand or Trade Name listed in the Directory below.

Acco.	American Chain & Cable Co.	Handi-Crane	Clyde Iron Works	Quick-Lift	Coffing Hoist Co.
Admum.	Blaw Knox Co.	Heat-A-Mix	Wylie Manufacturing Co.	Redi-Fab	Barber-Greene Co.
Aeroquip.	Aero Coupling Co.	Heater Planer	Spears-Wells Machy. Co.	Redler	Stephens-Adamson Mfg. Co.
Airco.	Air Reducing Pacific Co.	Heat Treat	Chicago Automotive Co.	Red Seal	Continental Motors Corp.
Air-Plus.	The Jaeger Machine Co.	Heico	Heltzel Steel Form & Iron	Red Strand	Leach Rope Div.
Airmaster.	Letco Div.	Hercules Red Strand	Leschen Wire Rope Div.	Remotrol.	Templeton, Kenly & Co.
Air Ace.	Dormar Industries, Inc.	Hevi-Lift	Harnischfeger Corp.	Rex	Chain Belt Co.
Airplane.	Air Placement Equipment Co.	HiFistake	Macwhytte Company	Rhino.	Shunk Manufacturing Co.
Airbrake.	Viber Company	Hi-Hastic	Macwhytte Company	Rock Ram	Lippman Engr. Works
Alco.	Aluminum Co. of America	Hi-Lectric	Maginnis Power Tool Co.	Rock-Jak	S. O. Duncan Co.
Alta.	Gorman-Rupp Co.	Hill Billy	Insley Manufacturing Co.	Rocker Shovel	Elmc Co.
American Crosby.	American Hoist & Derrick Co.	Hi Lo	Concrete Transport Co.	Rocket	Concrete Transport Co.
American Tubular Tower.	Universal Manufacturing Co.	Hi-Ly	Chicago Bridge & Iron Co.	Rotted	John A. Roebeling Sons Corp.
Anso.	Amer. Manganes Steel Div.	Hi-Loader	Athey Products Corp.	Roto-Valve	John A. Roebeling Sons Corp.
Aro-Pak	Aro Equipment Corp.	Hi-Speed	Baugman Mfg. Co.	Royal Blue	John A. Roebeling Sons Corp.
Ascor	Alloy Steel Corp.	Hi-Way	Highway Equipment Co., Inc.	Roustabout	Hughes-Keenan Corp.
Ateco	Amer. Tractor Expt. Corp.	Hoist-Air	Construction Machinery Co.	Royal Crown	Madsen Iron Works, Inc.
Atlas	Atlas Copco Pacific, Inc.	Hold-Control	Coffing Hoist Co.	Safety Berde	Utility Tractor Mfg. Co.
Atlas	Irvington Form & Tamp Corp.	Hoist-Air	Coffing Hoist Co.	Runad-O-Matic	McCaffrey Runk Tag. Co.
Atlas	Macwhytte Co.	Hold-Control	Charylenn Co.	Runabout	Barber-Greene Co.
Atlas	White Motor Co.	Hopto Digger	Badger Machine Co.	Saco	Stephens-Adamson Mfg. Co.
Autocraft.	Austin Western Div.	Hoe Boy	Chicago Bridge & Iron Co.	Sacon	Stephens-Adamson Mfg. Co.
Automatic	Page Engineering Co.	Hold-Control	Charylenn Co.	Safe Guard	Macwhytte Company
Bantam	Schild Bantam Co.	Hopto Digger	Badger Machine Co.	Safe Lock	Macwhytte Company
Batch-O-Matic	Barber-Greene Co.	Hoe Boy	Chicago Bridge & Iron Co.	Safety Pull	Coffing Hoist Co.
Bell-Pack	Dresser Manufacturing Div.	Hopto Digger	Chicago Bridge & Iron Co.	Salt Mixer	Baugman Manufacturing Co.
Bemco	Brooks Expt. & Mfg. Co.	Humpdinger	Ralph B. Carter Co.	Sandpiper	Rockland Allied Equip. Co.
Berg	Concrete Surf. Machy. Co.	Hydra Hammer	Ottawa Steel	Scoopmobile	Mikermobile Distributors
Berg	Bethlehem Pac. Coast Steel	Hydra-Seal	Pitman Manufacturing Co.	Scout	Swan Manufacturing Co.
Beth-Co-Weld	Bethlehem Pac. Coast Steel	Hydra-Way	Ottawa Steel	Scow-Air	Lippman Engr. Works
Bin Batcher	Construction Machinery Co.	Hydrepare	Dresser Mfg. Division	Sealmaster	Stephens-Adamson Mfg. Co.
BJ	Byron Jackson Co.	Hydrocrane	Bucyrus-Erie Co.	Seco	Screen Equipment Co., Inc.
Black Topper	E. D. Elzy & Co.	Hydronite	Chicago Bridge & Iron Co.	Sentry	Traffic Equipment Co.
Blizzard Buster	Northfield Iron Co.	Hydro-Shear	Ralph B. Carter Co.	Serra	Coffing Hoist Co.
Blue Brute	Worthington Corp.	Hydro-Spring	Twin Disc Clutch Co.	Simplex	Templeton, Kenly & Co.
Blue Center	John A. Roebeling Sons Corp.	Hy-Lo-Jack	Drott Mfg. Co.	Simpli-Flo	Simplicity Engineering Co.
Blue Ox	Flint Wheel Drives Auto Co.	Hy-Lo-Jack	Monarch Road Machy. Co.	Skid-Loader	Drott Manufacturing Co.
B-M	Bodinson Manufacturing Co.	Hy-Lee-Jep	Monarch Road Machy. Co.	Smith Shovel	Dormar Industries, Inc.
B-MCO	Browning Manufacturing Co.	Hystaway	Hydraulic Tool & Equip. Co.	Smith Mobile	R. L. Smith Co.
Bondact	Air Placement Equip. Co.	Impactor	Wayer Impactor Co.	Sno Cat	Tucker Sno-Cat Corp.
Booster	Chester Brooks Co.	Insulok	Dresser Mfg. Division	Socketype	Macwhytte Company
Broad	Broderick & Bascom Rope Co.	Intelli-Giant	Chiksan Company	Sonotube	Sonoco Products
Brogal	Broderick & Bascom Rope Co.	Jackson	Electric Tapper & Equip. Co.	South Bend	Municipal Supply Co.
Brolog	Broderick & Bascom Rope Co.	Jerry	Templeton, Kenly & Co.	Speedall	Pettibone-Mulliken Corp.
Brooks Ld. Luggers	Brooks Equipment & Mfg. Co.	Jet Control	Spears-Wells Machy. Co.	Speed Grader	Pettibone-Mulliken Corp.
Brooks Ld. Luggers	Brooks Equipment & Mfg. Co.	Jetec	Construction Machinery Co.	Speedmaster	Pettibone-Mulliken Corp.
Bulk-Mobile	Baugman Manufacturing Co.	Jifty Link	Page Engineering Co.	Speed-O-Matic	Link Belt Speeder Corp.
Bullelam.	Drott Manufacturing Co.	Jifty Teeth	Jetco, Inc.	Speed Swing	Pettibone-Mulliken Corp.
Casco	Pacific Car & Foundry Co.	Jonhson Float	Madsen Works	Spiralor Form Ties	Universal Form Clamp Co.
Carryhaul	Martin Machine Co.	Kilindo Non-Rotating	Macwhytte Co.	Spray Leader	Littleford Bros., Inc.
Cary-Lift	Pettibone-Mulliken Corp.	King	Lippman Engr. Works	Spray Master	Littleford Bros., Inc.
Car	Caterpillar Tractor Co.	King	National Welding Equip. Co.	Spread-Mobile	Baugman Manufacturing Co.
Centrapids	Iowa Manufacturing Co.	Kompactor	Buffalo-Springfield Roller Co.	Steffan	National Welding Equip. Co.
Century	Keesaby & Mattison, Inc.	Kue-Ken	Straub Manufacturing Co.	Strokontrol	Char-Lynn Co.
C. F. & L.	Colorado Fuel & Iron Corp.	KW	Kenworth Motor Truck Co.	Superglows	Zumar Industries
Challenge	Cook Bros. Equipment Co.	Kwik-Melter	Littleford Bros., Inc.	Superior	White Motor Co.
Challenger	Coffing Hoist Co.	Kwik-Steam	Littleford Bros., Inc.	Super-Power	Coffing Hoist Co.
Chief Rollers	Gallon Iron Works	Ladscap	Universal Mfg. Co.	Sure-Prime	The Jaeger Machine Co.
Chinook	International Mfg. Co.	Lay-Set	American Chain & Cable Co.	Sure-Copco	John A. Roebeling Sons Corp.
Circuit Rider	Lippman Engr. Works	Lew	Lippman Engineering Works	Swintek	Eagle Iron Works
Climont	Colorado Fuel & Iron Corp.	Liftamatic	Sagen Derrick Co.	Swiveloader	Stephens-Adamson Mfg. Co.
Collectomatic	Hall Company	Lima	Badger Machine Co.	Swynolds	Nordberg Manufacturing Co.
Coleman	The American Coleman Co.	Little Monster	Madsen Works	Tanker	Littleford Bros., Inc.
Concut	Concrete Sawing Equip. Co.	Load King	Cook Bros. Equipment Co.	Telematic	Anthony Company
Conkey	Concrete Bridge & Iron Co.	Loadmaster	Shawnee Mfg. Co., Inc.	Telvel	Stephens-Adamson Mfg. Co.
Conveyco	The Conveyor Co.	Loadmaster	The Jaeger Machine Co.	Terra Clipper	Smith Engineering Works
CP	Chicago Pneumatic Tool Co.	Long Bowl	Electric Steel Foundry Co.	Terra Coffra	Woodridge Mfg. Co.
Crane-Mobile	Ray City Shovels, Inc.	Lorain	Thew Shovel Co.	Terra-Lift	Woodridge Mfg. Co.
Crane-Set	Sauerman Bros., Inc.	Lube-Rig	Aro Equipment Corp.	Terra-Lob	American Tractor Corp.
Cruiser Crane	Koehring Co.	Lubrovans	Lincoln Engineering Co.	Terraloder	American Tractor Corp.
Cyclone	Safetec Products Co.	McCarthy Drills	The Salem Tool Co.	Terramatic	American Tractor Corp.
Dandie Mixers	Kwik-Mix Co.	Mavari-R	Bethlehem Pac. Coast Steel Co.	Terratract	American Tractor Corp.
Darex	Dewey & Almy Chemical Co.	Maurice	Murray Div. Co.	Terra-Trol	Columbia Steel Co.
Davis	Midwestern Industries	Micunigan	Clark Equipment Co.	Terra-Trol	Columbia Steel Co.
Dech-Blec	Dech-Blec Co.	Mighty Midget	Coffing Hoist Co.	Terra-Trol	Columbia Steel Co.
Disphragram	Gorman-Rupp Co.	Mine King	Goodall Rubber Co.	Terra-Trol	Columbia Steel Co.
Dieselelectric	American Hoist & Derrick Co.	Mite-Mite	M-I-S Manufacturing Co.	Terra-Trol	Columbia Steel Co.
Domar	Ulrich Products Corp.	Mixall	Barber-Greene Co.	Terra-Trol	Columbia Steel Co.
Doser-Rooter	Electric Steel Foundry Co.	Mix-Plus	The Jaeger Machine Co.	Terra-Trol	Columbia Steel Co.
Dresser	Macwhytte Co.	Model 48	Madsen Works	Terra-Trol	Columbia Steel Co.
Drive-It	Power Power Tool Co.	Monarch White Strand	Macwhytte Co.	Terra-Trol	Columbia Steel Co.
Dual-Prime	Construction Machinery Co.	Mo-St.	Morse-Starratt Products Co.	Terra-Trol	Columbia Steel Co.
Dumperette	Maxon Construction Co., Inc.	Moto-Bug	Kwik-Mix Company	Terra-Trol	Columbia Steel Co.
Durofil	Sauerman Bros., Inc.	Moto-Crane	Thew Shovel Co.	Terra-Trol	Columbia Steel Co.
Dyna-Chute	Monarch Road Machinery Co.	Moto Mixer	Chain Belt Co.	Terra-Trol	Columbia Steel Co.
Dyna-Might	Monarch Road Machinery Co.	Moto Patcher	Hetherington & Berner, Inc.	Terra-Trol	Columbia Steel Co.
Eco	Eugene Engineering Co.	Moto Paver	Hetherington & Berner, Inc.	Terra-Trol	Columbia Steel Co.
Economy	Ker-O-Kil Mfg. Co.	Multifoote	Blaw Knox Co.	Terra-Trol	Columbia Steel Co.
Eico	Economy Forms Corp.	Murex	Metal & Thermit Co.	Terra-Trol	Columbia Steel Co.
Electrobrons	Woodboss, Inc.	Nucretor	Air Placement Equip. Co.	Terra-Trol	Columbia Steel Co.
Elegader	Reisser Company	Omaha	Drake-Williams-Mount Co.	Terra-Trol	Columbia Steel Co.
Endlock	Universal Mfg. Co.	On-The-Square	Madsen Works	Terra-Trol	Columbia Steel Co.
Eso	Electric Steel Foundry Co.	Os-A-Vexor	Simplicity Engineering Co.	Terra-Trol	Columbia Steel Co.
Erics	Euclid Div. G.M.C.	Pace Maker	Universal Engineering Corp.	Terra-Trol	Columbia Steel Co.
Everett	Earth Equipment Co.	Pace Maker	Cook Bros. Equipment Co.	Terra-Trol	Columbia Steel Co.
Excavolader	Link-Belt Speeder Corp.	Pakut	National Welding Equip. Co.	Terra-Trol	Columbia Steel Co.
Exzblit	Universal Mfg. Co.	P & H	Harnischfeger Corp.	Terra-Trol	Columbia Steel Co.
Fastback	Electric Steel Foundry Co.	Partchdrill	Winter-Weiss Co.	Terra-Trol	Columbia Steel Co.
Ferris Grubber	Frank B. Ferris Co.	Patchmobile	Spears-Wells Machy. Co.	Terra-Trol	Columbia Steel Co.
FIDA	American Coleman Co.	Payloader	Frank G. Hough Co.	Terra-Trol	Columbia Steel Co.
Flatweave	John A. Roebeling Sons Co.	Peak-Temp	Cleaver Brooks Co.	Terra-Trol	Columbia Steel Co.
Flexco	Flexible Steel Lacing Co.	Pekrul	Morse Bros. Mchly. Co.	Terra-Trol	Columbia Steel Co.
Flexplane	Flexible Road Joint Mach. Co.	Pile-Pounder	Littleford Bros., Inc.	Terra-Trol	Columbia Steel Co.
Gar-Bro	Garlinghouse Bros.	Plastic Coated	Macwhytte Company	Terra-Trol	Columbia Steel Co.
Gas-O Dome	Victor Equipment Co.	Pneumadrivier	Schramm, Inc.	Terra-Trol	Columbia Steel Co.
General	Marion Power Shovel Co.	Pneumafast	Schramm, Inc.	Terra-Trol	Columbia Steel Co.
Gouldage	Earle M. Jorgensen Co.	Pneumajack	Schramm, Inc.	Terra-Trol	Columbia Steel Co.
Gold Medal	Patent Scaffolding Co., Inc.	Pneumapower	Schramm, Inc.	Terra-Trol	Columbia Steel Co.
Graco	W. E. Grace Co.	Pneumastat	Schramm, Inc.	Terra-Trol	Columbia Steel Co.
Gradall	Warner & Swasey Co.	Pneumatractor	Schramm, Inc.	Terra-Trol	Columbia Steel Co.
Gravel King	Universal Engineering Corp.	Portadrill	Winter-Weiss Co.	Terra-Trol	Columbia Steel Co.
Gravelmaster	Universal Engineering Corp.	Powerloader	J. I. Case Co.	Terra-Trol	Columbia Steel Co.
Grid Roller	Iverson Company	Power Shop	DeWalt, Inc.	Terra-Trol	Columbia Steel Co.
Grizzly	Lippman Engr. Co.	Powersteel	Broderick & Bascom Rope Co.	Terra-Trol	Columbia Steel Co.
Gutter-Snipe	Municipal Supply Co.	Power Vane	Chicago Pneumatic Tool Co.	Terra-Trol	Columbia Steel Co.
Gvrex	Hewitt Robins	Pulvi-Mixer	Seaman Motors, Inc.	Terra-Trol	Columbia Steel Co.
Gvro-Flo	Ingersoll-Rand Co.	Pumpcrete	Chain Belt Co.	Terra-Trol	Columbia Steel Co.
Haiss-T	Pettibone-Mulliken Corp.	Purple Strand	Bethlehem Pac. Coast Steel Co.	Terra-Trol	Columbia Steel Co.
Hamdobox	Littleford Bros., Inc.			Terra-Trol	Columbia Steel Co.

HE JUST FIGURED OUT
WHAT IT REALLY COSTS TO
USE SUBSTITUTE PARTS
IN HIS MACHINES !!



Down time is no joke.

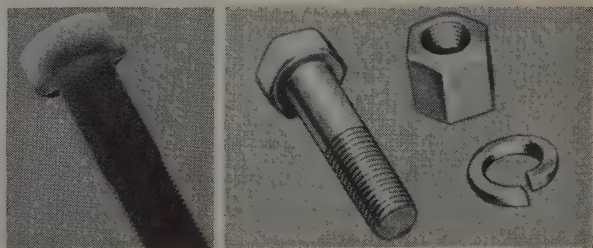
But it happens at times when track hardware gives out.

If you replace with original Caterpillar hardware, here's what you're sure of: bolts, nuts, capscrews and lock washers made from prechecked fine-grade steels, carefully hardened and tested, finished to the strictest specifications in the industry. You're sure of longer wear life, no matter how tough your jobs come. You're sure of *less* down time in the future.

If you replace with substitute hardware—can you be sure of anything?

Better get Caterpillar parts every time.

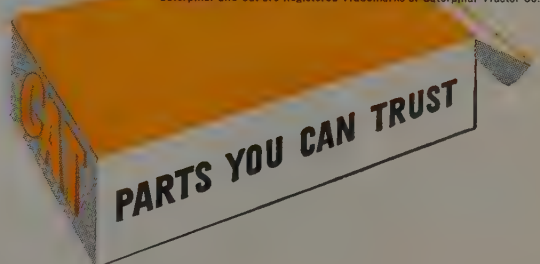
Caterpillar Tractor Co., San Francisco, Cal.; Peoria, Ill., U.S.A.



On the surface, CAT* hardware looks like ordinary kind. But etched cross section of newly designed track bolt (left) shows depth of special "Hi-Electro" hardening penetration in bolt head.

CATERPILLAR*

*Caterpillar and Cat are Registered Trademarks of Caterpillar Tractor Co.



See manufacturer's listing page 13, Yellow Section

ENGINEERS

on the move

Herbert L. McHenry, formerly in the military planning branch of the North Pacific Division office, Corps of Engineers, at Portland, recently returned after four years in Paris, France, with the Joint Construction Agency, and has been assigned to the technical engineering branch. Recently resigned from the Division office is **Budd W. Matlock**, who has accepted a position with International Engineering Co., San Francisco.

* * *

Lt. Col. Alarich L. E. Zacherle recently assumed the duties of executive officer of the Seattle District, Corps of Engineers, filling the place held for more than a year by **Col. W. T. Bradley** who is now assistant district engineer.

* * *

Col. A. E. McCollam recently returned to San Francisco as executive of the South Pacific Division, Corps of Engineers, and will assist **Col. William F. Cassidy**, Division Engineer, in a military and civil works construction program totaling over \$130,000,000 in work under way.

* * *

G. Bryce Bennett has been appointed assistant state highway engineer of the Idaho Department of



**G. Bryce
Bennett**

Highways. Bennett has been acting materials engineer for the Department since 1951.

* * *

Fairfax D. Kirm, Bureau of Reclamation specialist in analysis of concrete dams, retired recently after 28 years of Reclamation service. He was supervisor of the concrete dams analysis unit at the engineering offices in Denver, Colo. Kirm is best known for the principal role he played in the development of the "trial load" method of concrete dam analysis. Beginning with Hoover Dam, application of the method as developed by Kirm and others has resulted in efficient design and important economies in the con-

struction of Grand Coulee, Shasta, Hungry Horse and other large concrete dams. Kirm plans to conduct a consulting engineering practice.

* * *

Clyde E. Barrett recently moved to the Tri-Dam Project near Strawberry, Calif. where he is supervisor of concrete and steel construction for



**Clyde E.
Barrett**

the firm of Tudor-Goodenough Engineering Co. Barrett was with Tudor Engineering Co. at The Dalles, Ore., before this latest assignment. Two impervious earth and one concrete dam, with powerhouses, are involved in the project: Donnell's, concrete; Beardsley and Turlock, compacted earth.

* * *

Arnold L. Henny has been named director of the Columbia River 308 Review Section in the Portland District, Corps of Engineers. He has been special assistant to **Ben L. Peterson**, chief of the engineering division. Before joining the Corps in 1934 to work on Bonneville Dam, Henny was employed for four years by the Bureau of Reclamation in Denver. Also recently reported by the District is the promotion of **William W. Elmer, Jr.**, to assistant chief of the design branch, engineering division. Elmer, formerly assistant to the head of the structures section and primarily in charge of design memoranda for The Dalles Dam, will be assistant to **Lewis E. Knerr**. **Claude W. Beck**, bridge engineer with the Portland District, recently retired after 21 years' service with the Army Engineers. During this period four and a half years were spent at Bonneville Dam, eight in the construction division offices in Portland, six and one-half at Detroit Dam, and two and a half years at The Dalles Dam relocations office.

* * *

Thomas B. Waddell after 38½ years of service with the State of California recently retired as assist-

ant state engineer, which position he held since November 1951. Immediately prior to that he was principal hydraulic engineer.

* * *

Leslie M. Alexander has been promoted to the newly created position of assistant general manager in charge of development, sales, and customer services of the Salt River Power District, Phoenix, Ariz. Prior to joining the power District, Alexander was with the Bureau of Reclamation, and during World War II he was assigned to the Corps of Engineers, attached to the Air Force.

* * *

Torald Mundal has been appointed vice president and chief engineer of International Engineering Co., Inc., a subsidiary of Morrison-Knudsen Co., Inc., with headquarters in San Francisco. Mundal joined International Engineering in 1948 as chief design engineer and has helped supervise planning for many of the firm's diversified projects around the world, including the Alcan Project in Canada, and development of San Francisco Bay.

* * *

Emory E. Johnston, district maintenance superintendent for the Oregon State Highway Department at Redmond since 1941, has been promoted to maintenance office engineer at Salem. He replaces **L. R. Chandler** who has been transferred to Roseburg as assistant division engineer. **Alfred Bates** from the Prineville area has been advanced to district maintenance superintendent at Redmond.

CALENDAR

- Jan. 25-27—Institute of Transportation and Traffic Engineering, annual California Street and Highway Conference, University of California, Los Angeles, Calif.
- Jan. 27—Beavers, 1st annual meeting, Statler Hotel, Los Angeles, Calif.
- Jan. 28 - Feb. 2 — American Road Builders' Association, Road show and convention, Chicago, Ill.
- Feb. 9-10 — Society of American Military Engineers, annual technical meeting, Palmer House, Chicago, Ill.
- Feb. 13-15—Association of Asphalt Paving Technologists, annual meeting, Hotel Cleveland, Cleveland, Ohio.
- Feb. 13-16—Associated General Contractors, annual national convention, New York City.
- Feb. 20-23—American Concrete Institute, annual convention, Bellevue-Stratford Hotel, Philadelphia, Pa.
- Feb. 23 - 24 — Highway Engineering Conference of the University of Colorado, annual conference, Boulder, Colo.



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CFI CLINTON WELDED WIRE FABRIC

Concrete pipes subjected to heavy loads, when used as highway drainage culverts, sewer pipes and high pressure water systems, must have superior structural strength to give dependable service with lower maintenance cost.

When you specify concrete pipes reinforced with Clinton Welded Wire Fabric, you make a sound investment in permanent installations. When reinforced with this rugged steel wire mesh they have maximum strength and dura-

bility. In addition, their smooth walls assure uninterrupted, clog-free flow.

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See manufacturer's listing page 16, Yellow Section

ALASKA Newsletter

By CLIFFORD S. CERNICK, Anchorage

MUNICIPAL CONSTRUCTION in Alaska shouldn't be overlooked during the coming year. The city of Anchorage, alone, is planning a \$5,000,000 expansion and improvement program. High-level construction activities are slated also in Fairbanks, Ketchikan, and other major Alaskan cities. All in all, the stepped-up volume of city construction activities during 1956 is expected to take up the slack created by a downward trend in defense construction activities.

OUTLOOK FOR 1956—Your reporter conducted an informal poll as to the over-all outlook for the coming year in the Alaska construction industry. Things shape up this way: over-all volume of military construction, total employment and number of contracts issued will decline slightly. Volume of commercial and municipal construction will increase. Housing construction will go up perceptibly after a dull year in 1955. To sum up: 1956 will be a more competitive year than 1955—contracts will be harder to get and fewer, and bidding for contracts more spirited.

ATOMIC POWER IN ALASKA—Power for new Alaskan industries and increased population is becoming more and more in demand—and those in the power field in the territory are seriously considering the possibility of establishing an atomic power plant in the north. The Chugach Electric Association which serves power to the Anchorage area has announced that it considers itself "on the ground floor" as far as obtaining atomic power generating facilities is concerned. Marlin Stewart, manager of CEA, says his organization is third on the eligibility list of REA cooperatives seeking atomic power plants. The city of Anchorage also is interested in establishment of an atomic power plant here and City Manager George Shannon has already made preliminary inquiries on the matter.

ANCHORAGE-AREA CONSTRUCTION—Among the projects being considered for construction in the Anchorage area within the next year is a \$325,000 Alaska National Guard armory and a \$1,000,000 sewer construction project. The sewer construction would be with the aid of Alaska Public Works funds.

FREIGHT COSTS CUT—An Alaska innovation that may cut the cost of shipping supplies to construction job sites is being contemplated by

the Alaska Railroad. The railroad is considering inauguration of a "piggyback" service for shippers which consists in transportation of trailer vans from the seaport to the cargo destination, resulting in substantial shipping savings.

\$15,000,000 PROGRAM—A total of \$15,000,000 in additional construction for Air Force bases in Alaska has been authorized. Work will be at Elmendorf, King Salmon, Ladd Field, and Eielson Air Force Base, with Elmendorf getting the lion's share of the appropriation. Including the Elmendorf share of the latest authorization, total work now authorized for the Anchorage-area air bases amounts to more than \$24,000,000.

TROUBLE AT WHITTIER—A work stoppage by plumbers at the seacoast town of Whittier held up completion of millions of dollars worth of defense and school construction. Plumbers walked out in protest of the discharge of a worker who was found to be surplus. Dispute was patched up and work was resumed within 10 days.

TROOP COMPETITION—R. E. McFarland, president of the Alaska Federation of Labor, was unhappy, early in November, about the way a surplus salvage job was carried out on the island of Shemya. McFarland sent a letter to Lt. Gen. Joseph H. Atkinson protesting use of Air Force personnel as paid laborers on the civilian project. McFarland said the Air Force men were being paid \$2.50 per hour "which is considerably lower than the prevailing rate of wages in the area." He asked General Atkinson to "immediately stop employment of armed services personnel on the project" because of heavy unemployment in Alaska. General Atkinson investigated and found that airmen had been employed on the job and the practice was stopped immediately.

HIGHWAY FUNDS to meet the cost of a pressing highway construction need in the territory are being sought by Alaska officials. However, A. F. Ghiglione, head of the Alaska Road Commission, feels that inclusion of Alaska in the Federal Highway Act program would benefit the territory only if a special concession was given for road maintenance costs. Total appropriations received for roads in Alaska during the past six years was \$120,000,000. Last year's total allotment was the smallest—

\$10,300,000. There are now about 1,000 miles of pavement in Alaska and about 3,800 miles of roads under ARC jurisdiction. In addition, the Bureau of Public Roads supervises about 300 miles of forest highways.

FAR NORTH PROJECT—One of the continent's farthest north construction projects in 1956 will be a new electrical distribution system for the Eskimo village of Kotzebue. The village, largest native village in Alaska, recently received a \$312,000 loan from the Rural Electrification Administration for the project.

NIKE SITE VISITS—Interested contractors are being invited to visit sites for Nike rocket construction preliminary to issuance of a call for bids on the jobs. The sites are near Anchorage and Fairbanks. Bid invitations will be issued in the spring. Arrangements for visits to Nike sites must be made through the Alaska District Corps of Engineers in Anchorage.

RECORD CITY BUDGET—Alaska's largest city, Anchorage, has a record budget for 1956, and most of the money is earmarked for construction. The budget total is \$7,640,039. Anchorage was incorporated as a first class city on Nov. 23, 1920—just 35 years ago—and in that time has mushroomed beyond the wildest dreams of all its boosters. The city is continuing to grow. A total of \$891,738 has been earmarked for Anchorage area schools.

HOMER GETS LOAN—The Rural Electrification Administration has approved a loan of \$175,000 for the Homer Electric Association. The loan will be used by the Kenai peninsula cooperative to extend its power lines into adjacent villages.

APW FUNDS SOUGHT—Several Anchorage city councilmen have expressed the opinion that the Alaska Public Works program has not allocated a fair share of funds to the Anchorage area. As a result, both City Engineer George Matkin and Mayor Ken Hinchey have appealed to both Juneau and Washington officials for another look at the allocations.

NEW SCHOOLS NEEDED—The Anchorage school board is seeking \$12,000,000 to build new schools in the next five years. A three-way method of raising funds has been suggested: bonding, federal aid, and a municipal sales tax.

CONSTRUCTION NEWS NUGGETS—Prospects for heavy construction season in Juneau in 1956... two new schools will be constructed there... A major system of four-lane highways now seems assured for Anchorage.

Now 2 Kolman Conveyor-Screen Plants to Fit Every Job

KOLMAN

**COMPLETELY PORTABLE
CONVEYOR-SCREEN PLANT**
CONVEYOR • SCREEN • TRAP • FEEDER

Kolman has the combination for low-cost, high production screening and loading! That extra heavy construction throughout the Model 101 permits handling heavy loads at constant rates without fear of excessive expense or breakdown time loss! It's a brute for production—capable of loading over 800 tons per hour.

Kolman Model 101 is available in belt widths from 18" to 36" and up to 60-ft. lengths on portable plants. It's capable of carrying either a single, double or triple-deck vibrating screen without additional support, and can be equipped with a gravity-feed loading trap or feeder-trap combination. The complete plant is portable with no disassembly

whatever, as pictured at left. The vibrating screen folds easily into towing position. Adaptable to any type of feeding—dozer, dragline, shovel, front-end loading and others. Best of all, you'll find the Kolman 101 costs less than comparable heavy-duty conveyors. Write for literature.



50' x 36" Model 101



KOLMAN

'JUNIOR'
PORTABLE CONVEYOR

The Kolman "Junior" Conveyor, Model 202, is designed to meet the demand for a LOW COST portable conveyor rugged enough to support a Loading Trap and large Vibrating Screen. It will take the kind of punishment that is dished out to a portable outfit—and will cost you less money to own and operate!



40' x 24" Model 202

The rugged "box-type" construction of the "Junior" gives you great strength and rigidity at unusually low prices. The sides are of fabricated 3/16" steel plate formed into a channel 16" deep with 2" legs. A steel belt cover completely covers the top, giving additional rigidity and completely encasing the return belt to prevent material from work-

ing in to cause belt damage. The underslung power unit provides easy access for operation and servicing. The "Junior" is available with a gravity feed loading trap to make a complete, low cost portable screening plant. Lengths up to 50' with 18" or 24" belts. Write for literature.

SEE YOUR NEAREST DEALER—

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EUREKA—E. W. Pierce Company
MARYSVILLE—Valley Truck & Tractor Co.
SACRAMENTO—Sacramento Valley Tractor Co.
SANTA ROSA—Empire Farm Equipment Co.

COLORADO
DENVER—Faris-Moritz Equip. Co.

IDAHO
BOISE—The Sawtooth Company

NEVADA
ELKO—A-D Machinery Co.
NEW MEXICO
ALBUQUERQUE—J. D. Coggins Co.

OREGON
PORTLAND—Western Equipment Co.
EUGENE—Western Equipment Co.

UTAH
SALT LAKE—Rasmussen Equipment & Supply

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SEATTLE—Andrews Machinery of Wash.
SPOKANE—Andrews Machinery of Wash.

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See manufacturer's listing page 36, Yellow Section

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5670 West 12th St., Sioux Falls, S. D.

Please send literature on—

- ☐ 101 Heavy Duty Conveyor
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Quote size or capacity

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ARIZONA

UNIVAC, Remington Rand's electronic brain, is now in operation in the Arizona Highway Department. As a typical example of how the machine will save time, it was pointed out that on computing grades for earthwork quantities, Univac will calculate about 100 grade points per hr. including time required for key punching cards. This same operation done manually with desk calculators would take 5 hr. In addition to using Univac on earthwork quantities and grades it will be used on payrolls and taxes. It is estimated that about 150 man hours of calculating machine labor will be saved each month on the combustion payrolls alone.

THIRTY STATE HIGHWAY construction projects aggregating \$12,000,000 were in progress Nov. 15. This represents an increase of 105% over the total value of jobs under construction on the same date a year ago.

CONSTRUCTION of the new Colorado River bridge at Yuma is proceeding well on schedule. The new span is a joint project of Arizona, California, and the U. S. Bureau of Public Roads. It was designed by the California Highway Department which is supervising construction. Builder of the span, which will cost \$1,236,000, is the Fred J. Early, Jr. Co., of Calif. Arizona's share of the

cost is \$665,938. It is expected to be completed next April.

RECENT MAJOR CONTRACT AWARDS and low bids for Arizona include a low bid of \$378,525 submitted by **Pioneer Constructors**, Tucson, for grading and surfacing 7 mi. of Route 66 on the Holbrook-Lupton highway. A low bid of \$91,188 was submitted by **Tiffany Construction Co.**, Phoenix, for grading and draining about 4 mi. in Graham County, work to be completed June 30, 1956. **Given Construction**, Phoenix, received a \$352,476 award for construction of a bridge at the San Carlos River near Peridot. **Heuser & Garrett**, Phoenix, submitted a bid of \$302,674 for grading, draining, and construction of a bridge in the city of Yuma.

CALIFORNIA

CARQUINEZ BRIDGE BIDS—The American Bridge Co. was declared low bidder on building the superstructure of the parallel Carquinez Straits Bridge, but the bid was immediately protested. American's bid of \$9,489,000 was followed closely by **Judson Pacific-Murphy Corp.**, Fred J. Early, Jr., Co., Peter Kiewit Sons' Co., and Stolte Inc. with a joint bid of \$9,523,000. J. Philip Murphy, president of Judson Pacific-Murphy, protested that American is a Pittsburgh, Pa., concern and holds

no contractor's license in California. American's attorneys argued that the firm is a subsidiary of U. S. Steel and that the latter has a blanket contractor's license in the state covering all its subsidiaries. Department officials asked the State Contractors License Board for a written opinion.

On December 7, supported by a ruling from the Attorney General's office, the Department of Public Works awarded the contract to American. However, later, on December 8, an alternative writ of mandate was served ordering the Director of Public Works to award the superstructure contract to **Judson Pacific-Murphy-Kiewit**, the second low bidder. If this is not done, causes are to be shown in the San Francisco Superior Court on December 16.

Bids for the substructure were opened on Nov. 29. Low bidder was **Mason & Harger-Silas Mason Co., Inc.** and **F. S. Roland, Jr., Inc.**, San Francisco, with a bid of \$5,454,000. On Nov. 28, bids were opened for the grading and paving of 2.9 mi. of U. S. 40 and for construction of three steel girder and two reinforced concrete bridges to provide a 6-lane divided freeway leading to Carquinez Bridge. The low bidder was **Ferry Bros., John Ferry, Peter L. Ferry & Son** and **L. A. and R. S. Crow of Glendale**. Their bid was \$7,098,000. On Dec. 2, bids were opened for the approaches and interchanges. **Peter Kiewit Sons' Co.** submitted the low bid of \$4,661,000. **Walsh & Pomeroy** were close behind with a bid of \$4,843,000.

CONGRESS HAS AUTHORIZED \$23,000,000 for Navy construction work in the Southern California area during the fiscal year 1956. The Eleventh Naval District has awarded 57 architectural and engineering contracts for preparation of final construction plans on the proposed construction to 35 engineering firms. A list of the forthcoming projects, their estimated cost, their location, and estimated date of advertising for sealed bids is available from the Public Information Office of the Eleventh Naval District, San Diego, Calif.

OPTIMISM about the collective futures of the electrical and heavy construction industries and a description of the cloudy picture prevailing in the financing of new highways were the two viewpoints expressed by the principal speakers at the 37th annual convention of the Northern



AGUA FRIA POWER PLANT IN ARIZONA

Construction has begun on the Salt River Project's Agua Fria Power Plant which will cost \$25,000,000. The first unit is expected to be completed in April 1957, the second in April 1958. **J. M. Reimers** is superintendent for **Bechtel Corp.**

See manufacturer's listing page 13, Yellow Section, adv. next page →

"I'VE BEEN MOVING DIRT SINCE 1936 AND TRIED ABOUT ALL KINDS OF EQUIPMENT. I'VE FOUND THAT **CAT*** EQUIPMENT ALWAYS COULD GO WHERE OTHER MOTOR GRADERS AND TRACTORS COULDN'T—AND STAYED ON THE JOB DAY AFTER DAY WITH PRACTICALLY NO ATTENTION EXCEPT FOR GREASING."

A. H. HOUSE, Superintendent
for **M. E. Ruby, Jr., Austin, Texas**



Mr. House, like all construction superintendents, rates his machines by *results*. He's getting them from the Caterpillar No. 12 Motor Grader shown helping build a farm-to-market road near La Grange, Texas.

The big yellow unit is maintaining a haul road for the fast-stepping DW15s and Scrapers. Result: the wheeled rigs are hauling 14 yards per trip on a 2½-mile haul in 12 minutes, including loading and dumping!

The No. 12 is wringing the last cent of economy out of the tractor-scraper teams on the job—helping them haul maximum capacity at the highest possible speed. Tomorrow this rig can be leveling, grading, shaping embankment or sloping fill.

And now the No. 12 can do all its many construction chores *even better*. For it is the first motor grader to be equipped with the exclusive Caterpillar

oil clutch. Now disc replacement is practically eliminated and maintenance is greatly reduced. Clutch fade, even under extreme operating conditions, is practically eliminated since the oil bath prevents the plates from heating.

Your Caterpillar Dealer would like to demonstrate these new motor graders on *your* job. Seeing them in action you'll understand how these versatile machines now can give you even more work at lower cost.

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

CATERPILLAR*

*Caterpillar and Cat are Registered Trademarks of Caterpillar Tractor Co.

**99% OF ALL
CAT MOTOR GRADERS
ARE STILL IN USE**

California Chapter of the AGC. Walter J. Maytham, Pacific Coast vice president of Westinghouse Electric Corp., declared that the pace of the electrical industry provides a gage of business conditions generally. He saw no slowdown in a growth which has seen the demand for electricity doubled each 10 yr. Richard M. Zettel, research economist at the University of California's Institute of Transportation and Traffic Engineering, stated that no one can find a clear expression of national highway policy today. The meeting, held on Dec. 2, was divided into morning and afternoon sessions. The morning meeting was devoted to committee reports and internal affairs, under the direction of chapter president Ernest L. Clements. In the afternoon, Maytham and Zettel shared the platform with representatives of governmental agencies and the Armed Services, with chapter vice president Gordon Pollock presiding.

THE CITY COUNCIL of Los Angeles unanimously adopted an ordinance authorizing a new contract with the Coliseum Commission which will permit construction of an \$8,000,000 sports arena in Exposition Park.

RECENT MAJOR CONTRACT AWARDS and low bids in California include a low bid of \$218,393 submitted by **A. J. Raisch Paving Co.**, of San Jose, for 1.2-mi. grading and surfacing in Santa Clara County. **Trans-ocean Engineering Corp.**, Hayward, was awarded a \$349,867 contract for grading and seal coating the Bay Highway in Sonoma County. **C. E. Wooster**, Bakersfield, submitted a low bid of \$208,973 for grading and surfacing 2.6 mi. of the State Highway near Kettleman City. **W. H. Darrough & Sons**, Yuba City, submitted

a low bid of \$284,471 for 2.6-mi. grading and paving in Marin County. A low bid of \$2,039,702 was submitted by **Guy F. Atkinson Co.**, South San Francisco, for 1.6 mi. of grading and construction of two bridges in San Mateo County. **James B. Allen** of San Carlos submitted a low bid of \$181,409 for construction of a bridge grading, and paving at Beneda Slough in Madera County. **Sully-Miller Contracting Co.**, Long Beach, submitted a low bid of \$316,471 for 5.1-mi. grading and surfacing in Orange County. A low bid of \$574,714 was submitted by **C. B. Tuttle**, Los Alamitos, for constructing a bridge south of Ventura in Ventura County. **M. J. Ruddy & Son**, Modesto, submitted a low bid of \$1,294,763 for grading and surfacing two miles in Shasta County. **Leo F. Peazza Paving Co.**, San Jose, submitted a low bid of \$1,535,052 for grading and surfacing 1.9 mi. and construction of five bridges in Santa Clara County. A low bid of \$323,255 was submitted by **Baun Construction Co.**, Fresno, for 8-mi. grading and surfacing in Fresno County.

COLORADO

GOVERNOR JOHNSON says he is determined that a site for a highway toll tunnel under the Continental Divide be selected by the next legislature and he has asked the highway department to study two additional locations. The highway department has been studying and making core drill tests of the Straight Creek route on U. S. Highway 6 above Georgetown and the Vasquez Creek tunnel near Berthoud Pass.

CONSTRUCTION is well under way on the Speer Blvd. interchange at the west end of the 14th St. Viaduct, one

of the cloverleaves in the Valley Highway being pushed through Denver. Crews from the Gardner Construction Co. of Glenwood Springs, which won the contract for the \$930,000 job, began construction early in November.

RECENT MAJOR CONTRACT AWARDS and low bids in Colorado include a low bid of \$264,857 submitted by **J. S. Brown and E. F. Olds Plumbing and Heating Corp.** of Albuquerque, New Mexico, for construction of sanitary sewer system trunk lines at the Air Force Academy, Colorado Springs.

IDAHO

PETER KIEWIT SONS' CO. has submitted the low bid of \$1,927,000 for the widening of the last and lowest stretch of Parleys Canyon highway. Included in the 3.3-mi. contract is an interchange with Parleys Way and Foothill Drive.

DESPITE THREATS of court action, Idaho Power Co. has signed a contract with Morrison-Knudsen Co. for building two private dams in the Hells Canyon stretch of the Snake River. The two dams, Brownlee and Oxbow, are among three for which Idaho Power was licensed August 4 by the Federal Power Commission following more than a year of hearings in which the National Hells Canyon Association objected vigorously. The Association has said it will appeal the FPC's licensing. Morrison-Knudsen has begun work on the access roads and already has about \$1,000,000 worth of heavy equipment on the job sites.

RECENT MAJOR CONTRACT AWARDS and low bids in Idaho include an award of \$164,000 to **Reynolds & Walker**, Twin Falls, for construction of a maintenance shop building for the State of Idaho, Dept. of Highways at Shoshone, Lincoln County. **Earl L. McNutt Co.**, Eugene, Ore., was awarded a \$498,654 contract for construction of 3.8 mi. in Idaho County to be completed on or before Sept. 1, 1956. **LeGrand Johnson Construction Co.**, Logan, Utah, was awarded a \$439,400 contract for construction of a bridge on the 1000 Springs-Banbury Hill road in Twin Falls.

MONTANA

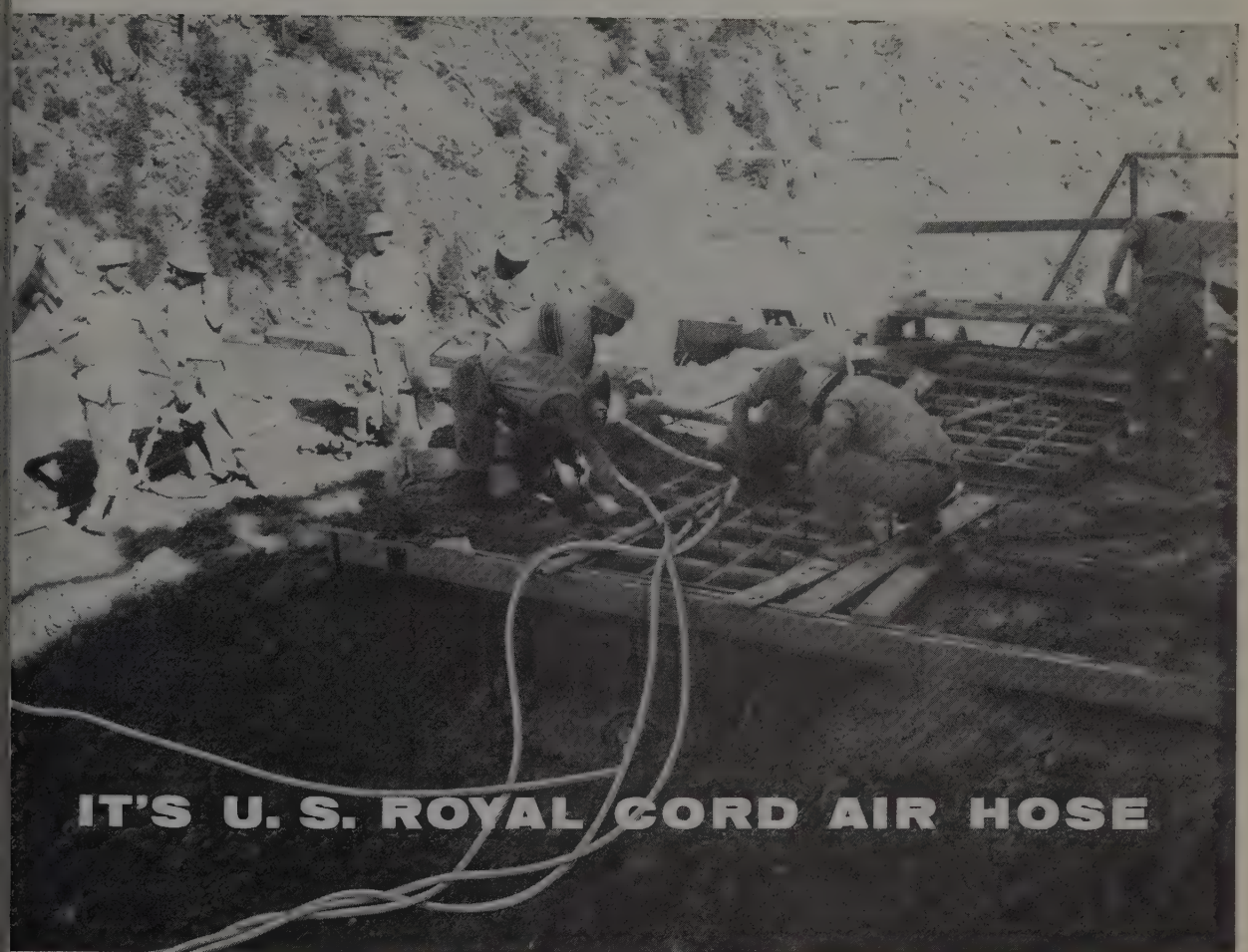
RECENT MAJOR CONTRACT AWARDS and low bids in Montana include a low bid of \$453,293 submitted by **Northwestern Engineering Co.**, Rapid City, South Dakota, for construction of paving and lighting system, Glasgow Air Force Base.



INDIAN CREEK BRIDGE WINS HONORABLE MENTION

Nine bridges were selected as the most beautiful steel bridges opened to traffic in 1954, in the American Institute of Steel Construction's 27th Annual Aesthetic Bridge Competition. The Indian Creek bridge in Plumas County, Calif., was one of three honored in Class III, bridges with fixed spans less than 400 ft. and costing less than \$500,000.

**At the Denver water dam one hose
takes the place of many...**



IT'S U. S. ROYAL CORD AIR HOSE

The immense water-supply dam recently completed for the city of Denver, Colorado, required over 8,000 feet of air hose in its construction.

The experienced contractor who handled the job picked U. S. Royal Cord Air Hose for several hard-boiled reasons:

- (1) U. S. Royal Cord Air Hose not only handles air—but also *water—and water under the extreme pressures required in washdown*. He used the hose on vibrators to consolidate the concrete—he used it as part of cooling lines on face of dam—on pneumatic tools, on sump pumps and sludge pumps, rock drills, chipping hammers, air wrenches.
- (2) The contractor found there was no need to go easy on

U. S. Royal Cord. *No* need for cribbing, no time wasted by workers in selecting or storing special hose for special jobs. *No money tied up in stocking specialized hose.*

- (3) Valuable pay hours saved—hour after hour, week after week. U. S. Royal Cord is *built like a tire*—that's why it can be kicked around and abused and made to do jobs you don't expect from an air hose.

You can save yourself plenty of worry by standardizing on "U. S." Hose. Performance after performance demonstrates the folly of wasting money on short-lived, cheap hose. You can get "U. S." Hose at any of the 27 "U. S." District Sales Offices or write us at Rockefeller Center, New York 20, N. Y.

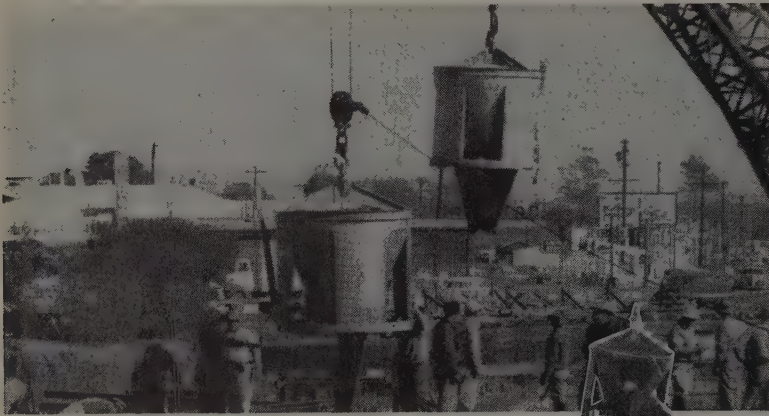


Mechanical Goods Division

United States Rubber

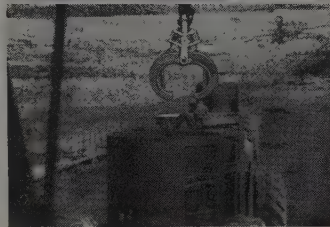
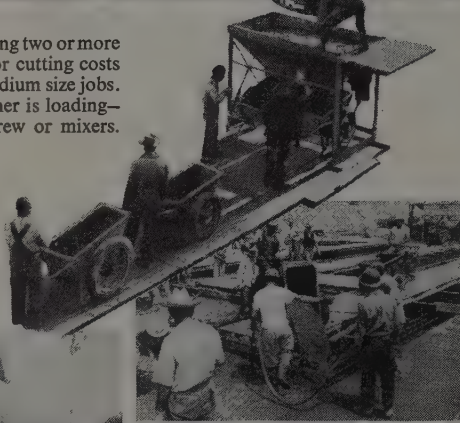
Use Production Line Methods

FOR HANDLING CONCRETE



SETTING A FASTER PACE by using two or more concrete buckets is a method for cutting costs used by many contractors on medium size jobs. While one is discharging the other is loading—there is no delay of placing crew or mixers.

FLOOR HOPPERS keep concrete carts moving by serving as storage for concrete. Fill them direct from truck mixer or by bucket if in elevated position.



POWER-CARTS, because they carry more, travel faster and are non-fatiguing, can place 4 to 5 times as much concrete per hour as a push cart even at hauling distances of 1000 feet.

PORTABLE HOPPERS move from job to job easily and save hours of time all the way down the line from mixer to placing crew to finishers because it eliminates waiting time and delay.

New power operated **CRANE HOOKS** are electrically controlled from the crane cab. They are ideal for picking up and releasing each individual bucket when several buckets are used.

GAR-BRO MANUFACTURING CO. • Los Angeles, California • Peoria, Illinois
General Offices: 2415 East Washington Boulevard, Los Angeles 21, California

GAR-BRO

Ask your dealer for
the Gar-Bro Manual...

the world's most complete line of

CONCRETE HANDLING EQUIPMENT

See manufacturer's listing page 27, Yellow Section



NEVADA

RECENT MAJOR CONTRACT AWARDS and low bids in Nevada include a low bid of \$235,142 submitted by **Silver State Construction Co.**, Fallon, for grading and surfacing in Douglas and Lyon counties. A \$127,348 contract was awarded to **Silver State Construction Co.**, Fallon, for grading and surfacing 1.5 mi. in Lyon County.

NEW MEXICO

THE HIGHWAY DEPARTMENT has completed plans for \$10,300,000 worth of new construction in anticipation of increased federal aid from Congress next year. An additional \$7,000,000 worth of final plans could be assembled in a very short time. Operations engineer I. B. Miller says that New Mexico is much further ahead in its planning than any of the other 11 Western states except California. Much of the planning concerns Interstate routes 85, 66, and 80.

RECENT MAJOR CONTRACT AWARDS and low bids in New Mexico include a \$521,548 award to **Wylie Brothers Contracting Co.**, Albuquerque, for 5.3-mi. grading and surfacing in Torrance County. **J. H. Ryan & Son** received a \$500,034 award for grading and surfacing 5.7 mi. in Torrance and Socorro counties. **Leslie Wheeler** received a \$138,424 contract for 3.7 mi. of grading and paving in Chaves County. **Jack Adams, Los Alamos**, received a \$178,962 contract for 9.4-mi. grading and surfacing in Bernalillo County.

OREGON

THE NEW PORTLAND-SALEM freeway, a scenic, billboard-free route cutting off 5 mi. and an estimated 20 min. travel time between the two cities, was opened to automobile traffic in November. Removal of the road blockades opened the section between Salem and Wilsonville. The section between Wilsonville and Tigard has been open for several months. Part of the Salem-Wilsonville section is limited to gross loads under 10,000 lb. since about 7-mi. is still only two-lane and thinly surfaced. Paving on the entire four lanes will be completed about August 1.

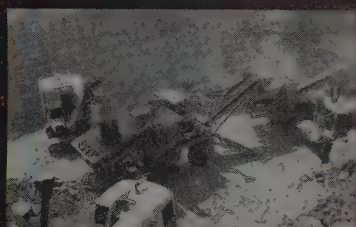
A DECISION by a Federal Power Commission presiding examiner issuing a 50-yr. license to the city of Eugene and through its Eugene Water & Electric Board for construction of its proposed Beaver March hydroelectric project on the McKen-

**Need 400 tons of 1¼" aggregate per hour, with crushing 20%?
 ... 250 tons per hour of paving stone?
 ... 300 tons per hour of crusher run limestone?**

CEDARAPIDS has the answer



The Commander, big-volume producer of fine crushed aggregate, is the answer to profitable operation in pits with high percentages of fines. Maintenance costs are low.



Portable Primaries turn 100% of pit run material—even big boulders—into specification product. Use ahead of any make gravel plant for profitable rock crushing.



Cone Crusher Secondary combines Cedarapids portability with Symons® Cone Crusher's low-cost output of the hardest or most abrasive rock or gravel.



Single Pass Plants for low-cost crushing units where material does not have to be accurately graded, and for jobs where portability and fast set-up are important.



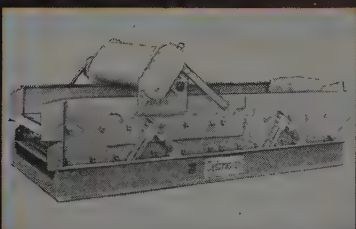
Hammermill Secondary Plant, a complete gravel crushing and screening plant, produces roadrock or aglime or a percentage of both at the same time.



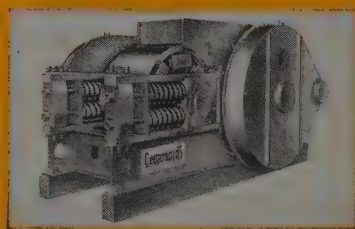
Portable Double Impeller Impact Breakers are ideal primary units for use ahead of secondary crushing plants. Use alone for high capacities of desirable cubical shaped aggregate.



Jaw Crushers—15 sizes enable Cedarapids engineers to select the right size for your job. Single jaw and twin jaw models are available.



Horizontal Vibrating Screens in a wide range of sizes in single, double and triple deck models, assure high capacities of accurately graded aggregate.



Roll Crushers, in eight sizes with three types of roll shells, insure high capacity of the smaller sized finished products you want.

IOWA
MANUFACTURING COMPANY
 Cedar Rapids, Iowa, U. S. A.

IOWA MANUFACTURING COMPANY, Cedar Rapids, Iowa, U. S. A.
 Gentlemen: My next job is _____

☐ Please send details of the Cedarapids equipment you recommend.

Name _____

Title _____

Company _____

Address _____

City _____ Zone _____ State _____

See manufacturer's listing page 35, Yellow Section



WALNUT GROWERS GET NEW WAREHOUSE

A Bethlehem Pacific erection crew places the final members for the California Walnut Growers Association warehouse in North Stockton. Rafters, made continuous by field welding, are supported by 80-ft. trusses to give a clear area at the floor of 60 by 80 ft. Utah Construction Co. is the general contractor.

zie River in Lane and Linn counties has become effective as the final decision and order of the FPC. The project estimated to cost \$8,500,000 will consist of a storage dam and a low diversion dam.

OREGON'S HIGHWAY construction program would be cut almost in half unless Congress increases federal aid next year, State Highway Engineer R. H. Baldock said recently. If federal aid is continued at the present rate, Oregon would have \$33,000,000 for construction next year and only \$24,000,000 in 1957. The commission spent \$40,000,000 for construction last year and \$35,000,000 this year.

PACIFIC NORTHWEST Power Co. has allocated another \$500,000 to continue work on its Pleasant Valley and Mountain Sheep dam sites on the Snake River between Idaho and Oregon. This brings to \$1,750,000 the total funds appropriated by four of the region's private utilities to prepare for construction of the \$210,000,000 project. Pacific Northwest Power Co. consists of Washington Water Power, Pacific Power & Light, Portland General Electric, and Montana Power companies. It filed with the Federal Power Commission Sept. 7 for a license to build and operate the new 1,446,000-kw. project. The project would be second only to Grand Coulee as the largest hydro development in the Northwest.

A NEW ROUTE is planned by the Bureau of Public Roads to bypass Laurel Hill on Mt. Hood highway. About \$575,000 in federal funds will be made available for the undertaking, in cooperation with the state highway department and the forest service. The complete road will be 2.4 mi. in length and will rejoin U. S. 26 at Timberline Junction.

THE U. S. AIR FORCE has plans for a \$5,000,000 communications installation on the World War II site of Camp Adair north of Corvallis. Test drilling is under way for building foundations, although the precise nature of the station is secret. The installation is expected to be completed by the end of 1957.

CORE DRILLING and other foundation exploration work for the proposed Haystack Dam southeast of Culver is under way in preparation for an expected call for bids in December or January. Congress has appropriated \$274,000 for initial work on the Bureau of Reclamation dam, the total cost of which is estimated at \$1,600,000. The dam will be earthfill 83 ft. high, with a crest length of 1,250 ft. Approximately 600,000 cu. yd. of fill will be required.

RECENT MAJOR CONTRACT AWARDS and low bids in Oregon include an award of \$133,760 to Tom Lillebo, Reedsport, for construction of East Fork Illinois River Bridge in Josephine County. Durbin Bros., Eugene, was awarded a \$211,888 contract for 9.2 mi. of grading in Marion County. A low bid of \$294,444 was submitted by Lord Brothers Contractors, Portland, for construction of a bridge over Banfield Expressway in Multnomah County. Roy L. Houck & Sons, Salem, was awarded a \$238,301 contract for 2.4 mi. of grading and paving near Dayton in Wasco County. Fred H. Slate Co., Oregon Ltd. & E. C. Hall Co., Portland, received a \$306,278 contract for grading and paving in Coos County. Sig Anderssen, North Bend, submitted a low bid of \$139,839 for construction of a bridge on the Coos River Highway near Allegany. Central Paving Co., Independence, received a \$144,386 contract for grading and surfacing in Crook County. Val-

ley Construction Co., Portland, was awarded a \$427,220 contract for construction of three bridges in Douglas County. Central Heating Co., Oregon Ltd., Eugene, submitted a low bid of \$383,502 for 6.8 mi. of grading and paving in Douglas County. Roy L. Houck & Sons, Salem, was awarded a \$386,230 contract for 6.1 mi. of grading and surfacing in Sherman County.

UTAH

RECENT MAJOR CONTRACT AWARDS and low bids for Utah include a low bid of \$288,045 submitted by Gibbons & Reed, Salt Lake City, for construction of embankment, Salt Lake Airport. Gibbons & Reed, Salt Lake City, received a \$150,673 award for 1.6 mi. of grading and surfacing in Utah County. Fife Construction Co., Brigham City, submitted a low bid of \$253,695 for 9.4 mi. of grading and paving in San Juan County. Peter Kiewit Sons' Co., Idaho Falls, submitted a low bid of \$1,927,142 for construction of highway in Salt Lake County.

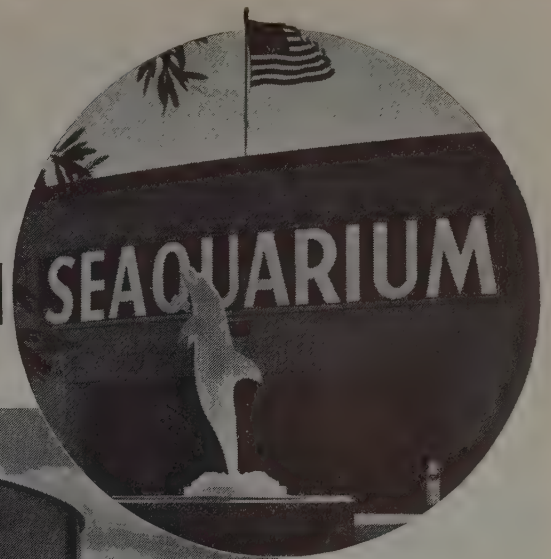
WASHINGTON

PUBLIC UTILITY DISTRICT No. 2 of Grant County intends to issue a formal call for bids on the construction of the Priest Rapids Dam powerplant and appurtenances on the Columbia River early in 1956. The dam will be a concrete and earth-fill structure about 100 ft. high and 8,800 ft. long. Arrangements for viewing this site can be made by contacting the Utility District at Ephrata. Additional information about the project can also be obtained from the consulting engineers, Harza Engineering Co., 400 Madison St., Chicago 6, Ill.

PUGET SOUND POWER & LIGHT CO., of Seattle has filed an application with the Federal Power Commission requesting a license for its proposed Upper Baker River Power Project on the Baker River in Whatcom County, Wash. Total estimated construction cost of the project is \$27,000,000. The FPC in August of 1954 issued a preliminary permit to Puget Sound giving it priority of application for a license for this project.

RECENT MAJOR CONTRACT AWARDS and low bids in Washington include \$212,000 award to S. S. Mullen of Seattle for construction of an outfall at the Hanford project along the Columbia River. A low bid of \$127,659 was submitted by Curtis Construction Co., Spokane, for grading and paving 3.2 mi. in Yakima County. Northwest Construction re-

Giant Steel Fishbowls by PITTSBURGH-DES MOINES for the MIAMI



Entrance of the Seaquarium, on Rickenbacker Causeway, Miami, Florida



The steel aquaria under construction. 80 ft, 565,200-gallon tank in foreground, with 50 ft, 260,252-gallon tank in rear. Acclimating flume connects both tanks

One of the world's largest collections of tropical fish and marine animals is on brilliant display in Miami's new Seaquarium—with its great steel tanks fabricated and erected by Pittsburgh-Des Moines. The tanks are unique, with walls containing double rows of big show-windows, resting on concrete bottoms. • Many design and construction problems were encountered, requiring special solutions based on P-DM's broad engineering and construction resources. • Let us quote on your particular needs.



Aerial view, showing coral boulders on tank floor affording shelter for fish. Tiered outer decks afford visitors surface and underwater viewing



Prefabricated welded segment of tank goes into position on concrete base

PITTSBURGH • DES MOINES STEEL Company

Plants at PITTSBURGH, DES MOINES and SANTA CLARA

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PITTSBURGH (25),.....3420 Neville Island	DES MOINES (8),.....921 Tuttle Street
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LOS ANGELES (48),.....6399 Wilshire Blvd.	SANTA CLARA, CAL.,.....627 Alvise Road



27 YEARS

with the SAME WAUKESHA ENGINE

...working
60-70 HOURS
week in and
week out



Unloading 32 railway cars of sand in 9 hours! That takes a fast operator, a good crane, and speedy, responsive, reliable power.

Contractors L. V. Hites and M. W. Martin of Topeka, Kansas, have such a combination.

Operator, Earl Walker, has been speeding up construction jobs with this Waukesha Engine powered

American Crane ever since 1928.

That's 27 years' straight—working 60 to 70 hours every week. The Waukesha JL (Serial G-181) is the crane's original engine. It's had several overhauls, of course. Once it got a set of second-hand blocks (when new ones couldn't be had). Sure they offer Earl new cranes. He likes this crane and its Waukesha.

...and modern Waukesha Engines have even greater stamina and reliability

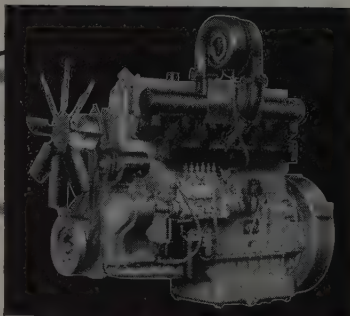
GAS • GASOLINE • NORMAL or TURBOCHARGED DIESELS

—up to 1135 horsepower for every industrial service

Modern 1197 cu. in. Waukesha Turbo-charged Diesel—Model WAKDB5—over 350 hp—used in many makes of cranes, shovels and heavy trucks. Send for bulletin.

279

WAUKESHA MOTOR COMPANY
WAUKESHA, WISCONSIN
NEW YORK • TULSA • LOS ANGELES



See manufacturer's listing page 59, Yellow Section

ceived an \$80,517 contract for the Avondale Road revision in King County. Troy T. Burnham Co., Seattle, received a \$101,657 award for grading and surfacing in Lewis County. Fiorito Bros., Seattle, was awarded a \$112,762 contract for construction of Eastgate Interchange in King County. Hoffman Construction Co., Portland, Ore., was awarded a \$289,800 contract for building work at the Hanford Works, Richland. Acme Construction Co., Eugene, Ore., was awarded a \$478,892 contract for 3.3 mi. of grading and paving in King County.

WYOMING

RECENT MAJOR CONTRACT AWARDS and low bids in Wyoming include a low bid of \$845,453 submitted by Sharrock & Pursel, Casper, for earthwork, structures, and drains for the Eden Project.

ALASKA

RECENT MAJOR CONTRACT AWARDS and low bids in Alaska include a low bid of \$3,911,534 for extensive construction for the U. S. Air Force on Elmendorf Base, submitted by Morrison-Knudsen of Anchorage. S. S. Mullen, Inc. Seattle, Wash., was awarded two contracts totaling \$2,178,000 for defense construction at Ladd and Elmendorf Air Force Bases.

Here and There

CONSTRUCTION PROGRESS on Oahe Dam near Pierre, S. Dak., during the 1955 work season has maintained the schedule set by the Corps of Engineers as essential to closure of the dam in 1958. When freezing weather halted outside construction work in November, 30,000,000 cu. yd. of earth had been placed in the main embankment. The overall project is about 12% completed. The dam will be the largest rolled fill earth dam in the world on the basis of earth quantities.

AN AGREEMENT for the design and construction of a \$130,000,000 steel plant expansion at Jamshedpur, India, has been signed between Tata Iron & Steel Co., Ltd., and Kaiser Engineers Division of Henry J. Kaiser Co. The job will require the purchase of approximately \$50,000,000 worth of machinery and equipment and is scheduled to take only 30 months time.

**for high-speed superhighway
and airport work . . .**

**MORE AND MORE CONTRACTORS CHOOSE
BLAW-KNOX**

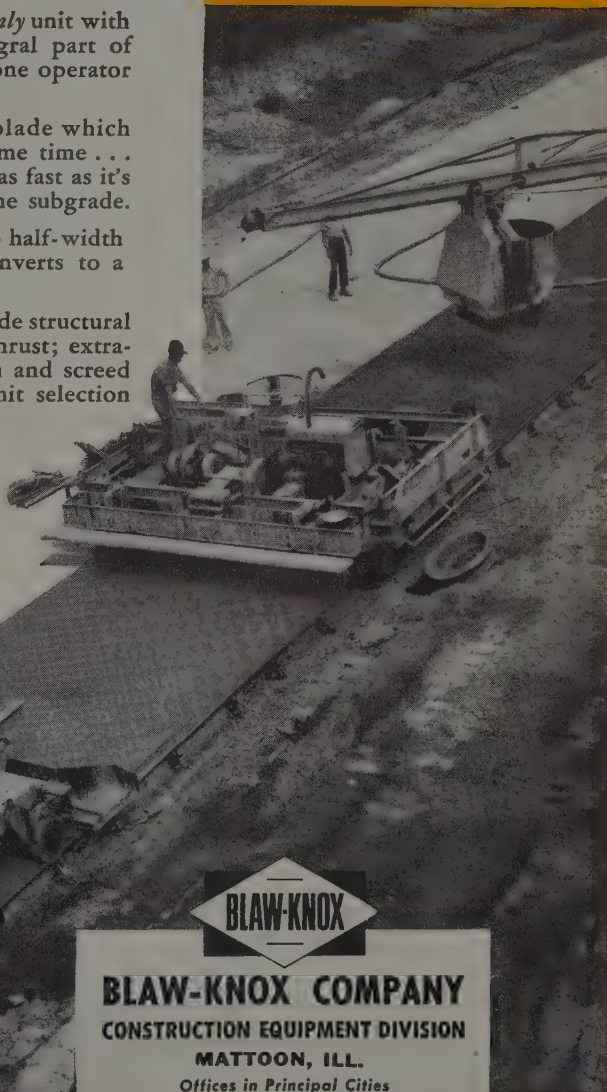
CONCRETE SPREADERS AND FINISHERS!

***They offer advantages found in
no other comparable units!***

- The Blaw-Knox Spreader-Vibrator is the *only* unit with the vibrator attachment designed as an integral part of the machine. No extra engine needed! Only one operator required!
- It's the *only* spreader with a transverse blade which spreads laterally and longitudinally at the same time . . . easily spreads extremely harsh, dry concrete as fast as it's placed, regardless of where it's dumped on the subgrade.
- It's the *only* spreader that easily converts to half-width and full-width paving. The 10'-15' unit converts to a 20'-25' width and vice versa.
- Exclusive Blaw-Knox Finisher features include structural design that minimizes weaving and lateral thrust; extra-wide screed ends to prevent wastage; traction and screed speeds are independently controlled to permit selection of best combination depending upon mix.

**ASK ABOUT THE BLAW-KNOX
"Complete Paving Package"**

Before you bid your next job, check the profit-benefits of using a balanced fleet of units with one-source, one-responsibility economy and production advantages.



BLAW-KNOX

BLAW-KNOX COMPANY

CONSTRUCTION EQUIPMENT DIVISION

MATTOON, ILL.

Offices in Principal Cities

SEE YOUR BLAW-KNOX DISTRIBUTOR . . . TODAY!

BLAW-KNOX PACIFIC COAST BRANCH

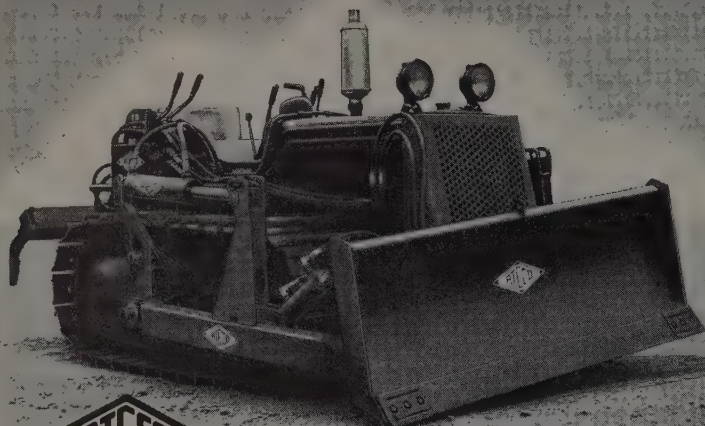
818 Monadnock Bldg., 681 Market St., San Francisco 5, Calif.

CONTRACTORS EQUIPMENT CORPORATION.....Portland, Oregon
FOULGER EQUIPMENT CO.....Salt Lake City, Utah
THE O. S. STAPLEY CO.....Phoenix, Arizona
C. H. GRANT CO.....Oakland, California
COLORADO BUILDERS' SUPPLY CO., Equipment Division
Denver, Colorado—Casper, Wyoming
LIVELY EQUIPMENT CO.....Albuquerque, New Mexico—El Paso, Texas

INDUSTRIAL EQUIPMENT CO.....Billings, Montana
NORMONT EQUIPMENT CO.....Great Falls, Montana
STAR MACHINERY CO.....Seattle, Washington—Spokane, Washington
SHAW SALES AND SERVICE CO.....Los Angeles 22—Branch: San Diego, Calif.
TREASURE STATE EQUIP. CO.....Kalispell, Montana—Missoula, Montana
NORTHERN COMMERCIAL CO.....Seattle 4, Washington

See manufacturer's listing page 9, Yellow Section

STEP UP PRODUCTION with this 1-MAN EARTHMOVING TEAM



Hydraulic-Tilt BULLDOZER-SCARIFIER

...for Allis-Chalmers, Caterpillar, and International Track-Type Tractors

For fast, big-yardage performance you'd never expect from small to medium-sized crawlers, try this new ATECO team on your next job! Hydraulic-tilt dozer and hydraulically-operated scarifier are controlled from the tractor seat to give your operator instant, finger-tip control of every job condition. Here are some of the money-making features you won't want to do without:

HYDRAULIC TILT lets operator lower either blade corner instantly for faster digging—cuts time 20% or better on pioneering, sidehill cuts, "finegrade" trimming!

HYDRAULIC SCARIFIER is instantly ready to rip up hard materials for easier dozing and full-bowl loads that mean bigger yardages with fewer passes!

SCARIFIER HELPS BALANCE DOZER WEIGHT—improves handling and traction, puts more horsepower to work, gets more done!

ATECO bulldozers or angling-blade roadbuilders and scarifiers are available for Allis-Chalmers HD5 and HD9, Caterpillar D2, D4 and D6, and International TD6, TD9 and TD14 tractors. No other dozer combination offers ATECO profit-building performance; why pay more and get less? See your tractor dealer today, or write us now for literature, prices.



34

CONVERTS TO FRONT-END LOADER with an inexpensive ATECO conversion kit. All you need is lift arms and bucket—use same pump, valve and cylinders as dozer!

(not available on HD9, D6 or TD14 models)

ANGLING-BLADE ROADBUILDER also available, with or without scarifier. Roadbuilder can quickly be converted to straight-blade bulldozer or to front end loader.

AMERICAN TRACTOR EQUIPMENT CORPORATION

Designers and manufacturers
since 1920

Mack Woodruff
PRESIDENT

9131 San Leandro Blvd.
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BULLDOZERS • ROADBUILDERS • RIPPERS • SCRAPERS • LOADERS

CANADA is getting "promising results" from engineering investigations now being conducted in British Columbia in connection with that government's proposal to divert Columbia River waters into the all-Canadian Fraser River system. This is the latest word from Gen. A. G. L. McNaughton, Canada's representative on the international joint commission and author of the diversion scheme. If Canada cuts down the flow into the U. S. of the Kootenay River it will wipe out the prospect of construction of Libby Dam in western Montana as authorized by Congress in 1950. It would also adversely affect Chief Joseph and McNary dams.

McNaughton also said Canadian law officers are now checking the legal situation in which the United States and Canada find themselves over the diversion dispute, as a consequence of the formal protest made by the U. S.

A BOOKLET containing schedules to which the three principal government construction awarding agencies have agreed for the processing of change orders and disputes has been published by The Associated General Contractors of America.

Entitled "Processing Change Orders and Disputes," the booklet was distributed in November to AGC chapters and to field offices of the Corps of Engineers, Bureau of Yards and Docks, and Bureau of Reclamation, and to the other federal contracting agencies.

The federal government for many years has stipulated in its standard contract provisions the conditions and time limitations within which contractors must comply with change orders and perform actions incident to filing claims, appeals, and answers to decisions of contracting officers of the agencies. Previously there had been no time limitations on the government agencies.

The AGC 35th annual convention on March 4, 1954, adopted a resolution which recommended that "government agencies and general contractors cooperate fully in handling expeditiously any change orders or disputes that may arise in connection with their contracts."

Discussions of the subject were held by task units of the AGC Contract Forms and Specifications Committee which have been meeting for several years with the government agencies to make recommendations for improved specifications or other means of improving construction for the government.

The booklet consists of a brief introduction, the text of an identical letter which AGC wrote to each of the agencies, and the texts of the letters received from the agencies. Copies are available from the AGC national office at 20c each.

See manufacturer's listing page 6, Yellow Section

Announcing...



THE NEW ATHEY **PR-15** REAR DUMP TRAILER

SPEEDS TO 31.3 MPH provide high production at the lowest possible cost. No idle shovels or wasted time. More loads per hour, more material hauled per day.

15.6 CU. YDS. (22 TON) CAPACITY — matched design of the tractor and trailer assures top performance — utilizes full tractor capabilities.

FAST 12 SECOND DUMPING keeps units producing — earning more money. Body raises 60° to dump any load quickly and surely. Spreading is easy with positive operator control of the dumping angle. High speed pump flow control valve and double-acting cylinders all team up to give maximum efficiency.

TURNS IN 37' — facilitates work in narrow cuts and speeds spotting under shovel. Keeps cycle on a profitable basis, eliminates high cost maneuvering.

POWERED BY CAT 186 HP DW15 TRACTOR and interchangeable with the No. 15 Cat Scraper. Tires on the tractor and trailer are interchangeable. Trailer tires,

wheels and brake drums are also interchangeable with the No. 15 Scraper for greater economy.

HYDRAULICALLY-CONTROLLED THROUGHOUT — positive, dependable. One lever for dumping. No complicated cable arrangements or downtime for costly cable replacement.

EXCELLENT WEIGHT DISTRIBUTION with 37% on the tractor drive wheels. Traction assured in the toughest footing with big 21:00-25, 24 ply rock-type tires on the trailer and tractor drive wheels.

RUGGED AND DEPENDABLE, made of premium quality steels by specialists in the tractor-trailer field. Over 32 years of know-how and field experience stand behind the PR15.

The PR15-DW15 team is designed for high production at the lowest cost. It has many advantages over other types of hauling units. The wide mouthed body is an easy target. A low loading height increases shovel efficiency. The low center of gravity permits maximum speeds on the haul and around tight turns.

Safety is built in with big powerful brakes. Positive operator control on the edge of the fill with independent braking of tractor drive and trailer wheels. Handling is easy and sure.

All these features mean more profit on every job where the PR15-DW15 team is working — loading more, rolling faster, dumping quicker. Check your Athey-Caterpillar Dealer for all the facts. Find out how you can cut your hauling cost with the new PR15. *Athey Products Corporation, 5631 West 65th Street, Chicago 38, Illinois.*

See manufacturer's listing page 6, Yellow Section

SUPERVISING the jobs

Ivan Hill, general superintendent for Emerson S. Ellett, Inc., is being assisted by **Harry M. Haagenenson**, superintendent, and **A. E. McCausland**, carpenter foreman, in the handling of Schedules Nos. 1 and 2, rehabilitation and enlargement of Firestone section on the Colorado-Big Thompson Project in Colorado. A 210-day, \$381,429 contract which started Oct. 17, this is the fifth Colorado-Big Thompson contract or subcontract awarded to Ellett. Pennington Construction Co. has the earthwork subcontract.

* * *

L. H. Weber is superintending his own recent contract award for 1.3 mi. of grading and surfacing of highway in Targhee National Forest in Wyoming. **Steve L. Adams** is foreman. Bid price was \$96,588.

* * *

Eldred R. Peterson, project manager, and **Marius Jensen**, general superintendent, are head men on construction of the \$1,000,000 telephone building going up in Albuquerque, N. Mex. **Kitchell-Phillips Contractors, Inc.**, won the award from the Mountain States Telephone Co. and started work Oct. 1. **Joe**

Easton is assistant superintendent and "**Curley**" **Owens** is reinforcing steel foreman. Building is to be 4-story structure of lift-slab type, with approximate floor area of 100,000 sq. ft., and is scheduled for completion about August.

* * *

A. L. Acton, superintendent, assisted by **F. R. Acton** and **Gail George**, grade foremen, is supervising a \$342,178 award to Taggart Construction Co. for grading, draining, surfacing, and miscellaneous work on 5.4 mi. of the Worland-Thermopolis road in Hot Springs County, Wyo. **George Monighan** is the timekeeper. Labor foreman is **J. C. Rodgers**.

* * *

W. J. Loomis is superintending the nearly completed 4.4-mi. grading and surfacing job on the Zuni-Ramah road, McKinley County, N. Mex., a \$153,493 contract being handled by **Floyd Haake**, contractor. **T. J. Serna** is grade foreman.

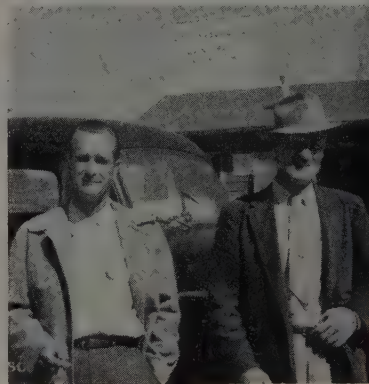
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Woodrow Winters is superintending the job of **Whiting & Haymond**, contractor on the grading and surfacing of 5.3 mi. in Wasatch National Forest, Utah, a \$230,735 undertaking.

William E. Cowan is general superintendent on a \$209,457 contract awarded to **W. H. Darrough & Sons** for 5.3 mi. of grading and surfacing and installing of drainage facilities west of Willits, Mendocino County, Calif. Other important personnel on this project, scheduled for early completion, are **Leonard Anderson**, superintendent; **Jack M. Darrough**, general foreman, and **E. V. "Curley" Whipple**, master mechanic.

* * *

A. P. Wuebel is project manager and **Dale A. Zarecor** is general superintendent and engineer for **C. H. Leavell & Co.** which is doing a concrete and brick construction job at Santa Fe for the New Mexico State Highway Department. Other key men on this project are these foremen: **H. Schock**, cement; **Wayne Follis**, ironworker; **Bennie Quin-**



Wuebel

Scott



Zarecor Follis Quintana

tana, carpenter; **M. Sanchez**, labor; **H. Oldaker**, brick. **W. C. Kruger & Associates** is architect-engineer, with **M. O. Scott** as inspector on the project.

* * *

William H. Langford, general superintendent for **Price-McNemar Construction Co.**, is in charge of a new and interesting job recently received by this contractor from the Corps of Engineers. Also employed on the project, which lies in unusually rugged terrain in the Angeles

Down-time

By Domagalski



"Maybe tonight we'll see the money they're always leaving on the table."

Western Construction

See manufacturer's listing page 13, Yellow Section, adv. next page →



D9 MOVES BIG YARDAGE

for
**MORRISON-
KNUDSEN**

A CAT* D9 Tractor with No. 9S Bulldozer is the prime earthmoving tool on this Morrison-Knudsen contract in Idaho. The job—relocating 11.37 miles of the Idaho City-Owl Creek road—involves clearing 64 acres and moving 337,000 cubic yards of dirt and rock. One rock cut is 87 feet deep and there are fills up to 30 feet.

With its huge 14-foot 'dozer, capable of handling up to 9 cu. yd. at a blade load, the D9 makes 40 passes, 200 feet long, per hour.

Now that the D9 has proved itself on jobs all over the country, owners recognize it as the top production machine among big tractors. It's the first track-type tractor with Turbocharger. The 286 HP Caterpillar Diesel Engine gives it ample power to match

its weight and traction. You have a choice of torque converter or oil clutch drive. And there is "Live-shaft" drive for rear-mounted equipment.

Operators say this big machine is "as easy to handle as a small tractor." Easy to service, too. The exclusive, trouble-free oil clutch, separately removable power train components and a fuel system that needs no adjustments in the field are among the reasons why.

Your Caterpillar Dealer can give you some eye-opening facts about the economy of the D9 for big yardage jobs. Ask him for a working demonstration today.

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

CATERPILLAR

*Caterpillar and Cat are Registered Trademarks of Caterpillar Tractor Co.

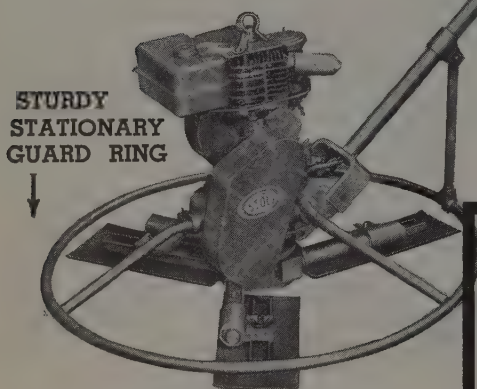
**NAME THE DATE...
YOUR DEALER
WILL DEMONSTRATE**

NEW!

The most advanced,
best engineered
trowel on the market!

STOW Roto-Trowel

for faster floor finishing



STURDY
STATIONARY
GUARD RING

DEAD-MAN
CONTROL

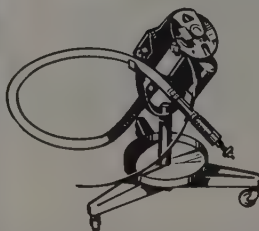
Model G-34 Gasoline

Also available as
Electric model E-34

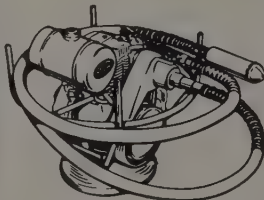
- Allows surface floating within one hour of removal of screed from job
- Roto-Trowel, with floating blades attached, drives air-pockets out—brings up moisture to produce an excellent surface
- With finishing trowels in place, adjusted for specific conditions of the job, Stow Roto-Trowel provides a smooth, level, even finish

Stow Roto-Trowel is:

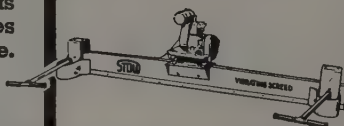
Ruggedly constructed to do an excellent job on any concrete slab. Pitch Control provides exact adjustment of trowel pitch while machine is in motion. Dead-Man Control stops trowel blades the instant the operator lets go of lever. Equipped with rugged 34" dia. Stationary Guard Ring, does not rotate, permits close-to-wall work. Quick change blades reverse for double life. 2½ H. P. engine.



G40-C Flexible Shaft Concrete Grinder—an efficient, lightweight tool built on a wide wheel base for stability, caster fitted for easy mobility.



AGW Vibrators—heavy-duty vibrators especially recommended for compacting thick floor slabs, walls, piles and foundations.



Stow Vibrating Screens—strike off a smooth surface that is true to grade, at the same time thoroughly vibrating the concrete.



Write today
for Bulletin 555

STOW MANUFACTURING CO.

56 Shear St., Binghamton, N. Y.

See manufacturer's listing page 54, Yellow Section

National Forest near Mount Wilson, Los Angeles County, Calif., are Sidney R. Query, field engineer; William R. Ervin, general carpenter foreman, and Delbert H. Asher, carpenter foreman.

* * *

Robert McElveny is general superintendent on the erection of civic auditorium for the City of Albuquerque, N. Mex. Expected to take a year, this \$1,010,000 contract went to Lembke, Clough & King which started operations in September. Carpenter foreman is Lee Candalara. Harlin Harris has the excavating under a subcontract.

* * *

George Jurovich is supervising for John A. Artukovich Sons, Inc., on the Metropolitan aqueduct job, Garfield St., South Gate, to Wadsworth St., Los Angeles, Calif. Vlady Thomas is welding superintendent, and Andy Kless is foreman. The Metropolitan Water District is represented at the site by Charles Ringler.

* * *

E. A. Hokanson is supervising construction of the Southern Pacific Pipe Line pump station at Watson Creek, Los Angeles County, Calif., for J. A. McNeil Co., contractor. Bill Finlayson is resident engineer for Engineering Management, Inc., and Sid Carlton is inspector for the same company.

* * *

Larry Barber is superintendent, and Bob Koonz, foreman, for J. A. McNeil Co. which is constructing a new plant for Gardner-Denver at Montebello, Calif.

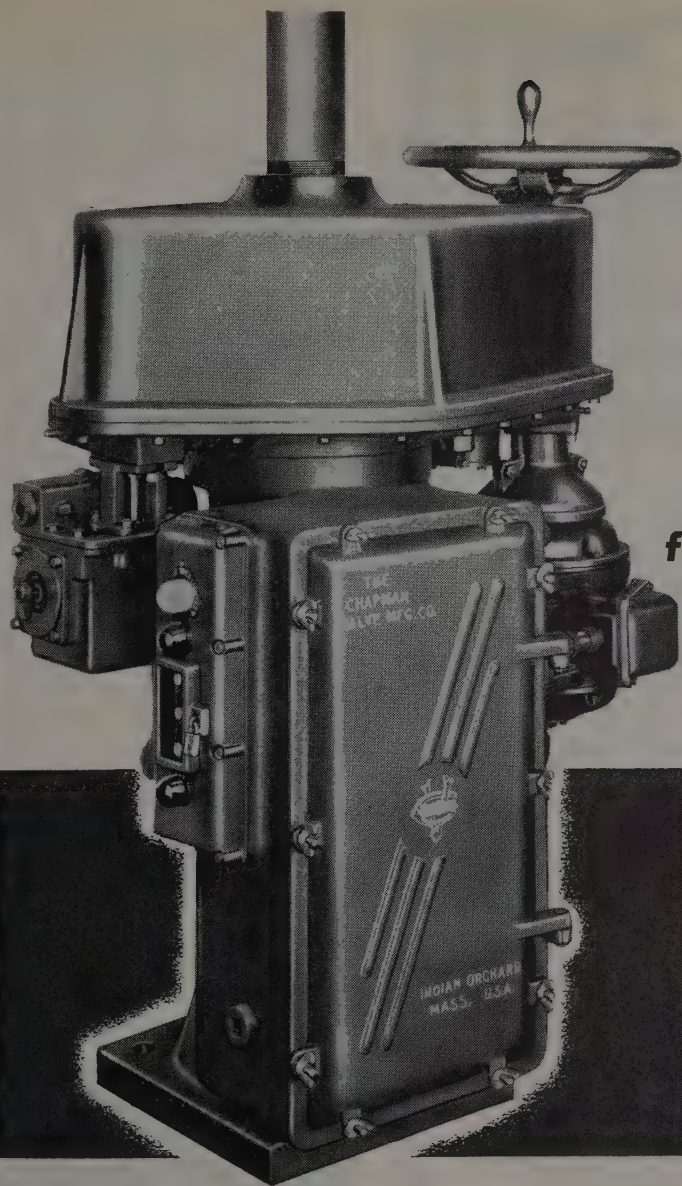
* * *



SUPERVISING a large highway project near Montgomery Creek, Calif., for Eaton & Smith is Andrew Cathey, above. Jack Keating is assistant superintendent.

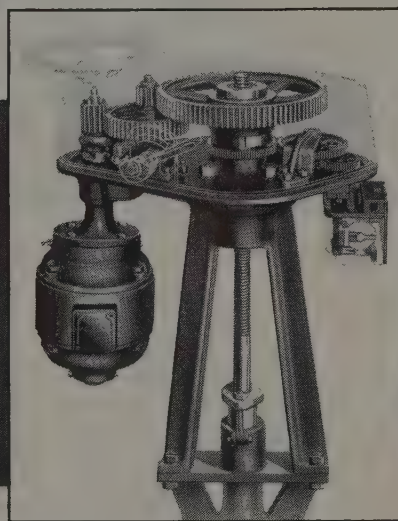
* * *

D. D. "Doug" Baker as project manager and Ford Johnson as general superintendent head the construction force for Peter Kiewit Sons' Co. and Parish Bros. on construction of Monticello Dam, a \$7,628,991 project expected to be finished before the end of the year.



Simple and
RUGGED...

**CHAPMAN'S
MOTOR UNIT**
*for Valves, Floorstands
and Sluice Gates*



Floorstand equipped with Motor Unit . . . control panel, motor, limit switch and push button station.

Simple, durable mechanism of Chapman's Motor Unit Handwheel remains stationary during motor operation.

Chapman Motor Units have fewer components than any other units, providing greater dependability, much lower maintenance costs.

There are only two pinions and two gears in the motor reduction train: drift is eliminated and lash is negligible. Your valves seat tight, but not too tight. Operation is *always* smooth and trouble-free.

You can mount the Chapman Motor Unit in any position, at any angle required. The rugged stub-tooth gears require no grease

or oil bath . . . yet run smoothly, quietly, with minimum wear.

Weatherproof and steam tight, Chapman's floorstand units are shipped completely wired, ready to connect to your power leads, for easy, rapid installation. This modern motor unit is dependable and economical. Send for *new* catalog No. 51.

**The CHAPMAN Valve
Manufacturing Company**
INDIAN ORCHARD, MASSACHUSETTS

Tough and Ready

**TOWNER
SCARI-
PLOW**

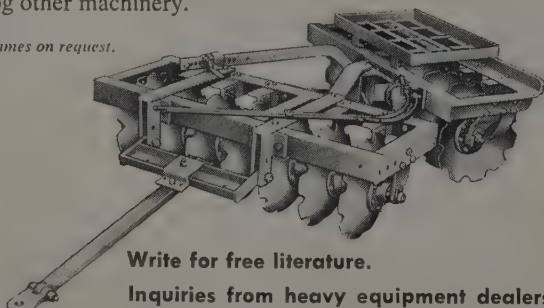
for the hardest
compaction and
land-leveling jobs



Leading contractors* use the Towner Scari-Plow for cutting fill on dams, levees and roads... for maintaining road shoulders... and for loosening dirt in borrow pits. A powerful three tons in weight and with giant, 28-inch diameter, razor-sharp disc blades, the Towner Scari-Plow gives speed and efficiency to the toughest compaction and land-leveling jobs.

Here's the plow built for tough going! Proved for 15 years, it penetrates the hardest soil with a double-plowing action that leaves the soil loose and finely broken, with no large chunks to clog other machinery.

*Names on request.



Write for free literature.

Inquiries from heavy equipment dealers invited.



Towner Manufacturing Company
Makers of quality farm equipment for 40 years.

SANTA ANA 38, CALIFORNIA • BLOOMINGTON 38, ILLINOIS

See manufacturer's listing page 56, Yellow Section

Other superintendents are: Robert Becker, shift; James Balden, mill yard; Joseph Hassell and Wilson Wiggins, shift; Sam Aldred, Marshall Eastham, and Floyd Sandy, assistant plant. Among the foremen are: Pipefitter, Lee Upton (day), Noel Evans (swing); ironworker, "Connie" Carbert and Keith Fuller; carpenter, Donald Anderson and Virgil Warren; cement finisher, Gil are: Pipefitter, Lee Upton (day), Ernie Brown, Claude Latta (graveyard); Norman Crosswell, "Shorty" Schramm (swing), E. Callahan (day); boilermaker, Sam Turner; carpenter, S. H. Hawkins, H. E. Cates, D. Anderson and J. Hawkins.

In the office: Henry C. Scott, project engineer; Clark Histmark, office engineer; W. Gilbert Lowe, office manager; David Rigby, safety supervisor, and W. D. Egleston, purchasing agent.

Monticello Dam is a part of the Solano Project in the western section of the Sacramento Valley, Calif., a Bureau of Reclamation undertaking. B. P. Bellport is project construction engineer; J. R. Granger, resident engineer; M. R. Johnson, field engineer; H. H. Huston, technical installations and grouting. A. Z. Greenlaw heads the inspection branch. J. Welsh is safety engineer. On highway relocation, D. M. Wren is resident engineer, and E. O. Baird is senior inspector.

* * *

C. H. McCormick is general superintendent, and C. A. Hoffpauir is job engineer on construction of a building on the campus of the University of Arizona. Foreman on labor is Odell Reeves.

Reinforcing and structural steel is subcontracted to Allison Steel Co.,



McCormick

Hoffpauir

represented by J. A. Rau. Weeco Plumbing Co. has the plumbing, John A. Carrasco, foreman. Other subs are Howard P. Foley Electrical Co., Clark & Co., mechanical, and James L. King, masonry. Prime contractor M. M. Sundt Construction Co. expects to have this \$800,000 job completed about May.

* * *

Ken Willis, general superintendent, is in charge of work of Fisher Construcion Co. which is finishing up an addition to a cement plant at Rillito, Ariz., for the Arizona Port-

(Continued on page 128)

he greatest year yet

By even the most conservative predictions, 1956 promises to be the greatest year yet for the construction industries.

This means that there will be even more jobs and bigger jobs to do than ever before. And wherever there's important, demanding hauling to be done, you'll find Macks on the jobs—the *Mack-sized* jobs.

When it comes to moving earth, rock, ready-mix concrete, equipment and building supplies, the construction industry knows there's nothing like Macks. For

instance, the economy-champion Mack Thermodyne® Diesel engine, the sure-footed Balanced Bogie with exclusive Mack Power Divider, traditional Mack rugged construction... these are among the many Mack features that assure long, trouble-free life at the lowest maintenance costs. You can count on Macks to get more work done—on schedule, and at a profit.

At the beginning of the new year, isn't it a good time to remind yourself again "Can I afford *not* to use Macks?"

MACK TRUCKS

Los Angeles • Denver • San Francisco • Seattle • Portland • Salt Lake City • Albuquerque



(Continued from page 124)

land Cement Co. Others who have been employed on this job are "Mitch" Davis, who was in charge of the office, and the following foremen: Charles Carlock, labor; Doyle Yocham, carpenter; D. V. Rauch, millwright; Bob Clark, equipment.

Subcontracts are held by: Soule Steel Co., Ray Dresser, reinforcing superintendent; Corbin-Dykes Electrical Co., Reed Batson, superintendent; Allison Steel Co., Elbert Turner, structural superintendent.

* * *

J. C. Stewart and J. C. Andreen, project manager and general superintendent respectively for Utah Construction Co., are employed on a contract covering a stripping and mill project 20 mi. southwest of Tucson, Ariz., for Pima Mining Co.



Norris

Andreen



Henry
Rubin

Frank McCaughey is office manager. Superintendent C. H. Norris heads the stripping. George Bennifel and John Moon are shifters. John Cerney is carpenter foreman, and William Martin is master mechanic. Robert Thurmond is stripping engineer; Paul Newell is mill engineer; John Bettes is party chief. Resident engineer on this \$6,000,000-\$8,000,000 project is Henry Rubin.

* * *

Heading Erv's Equipment Rental of Tucson, Ariz., are A. W. Kuhr, owner, and Erv W. Hartje, co-owner.

* * *

D. F. Farrell is superintendent for King Construction Co. on the National Life & Casualty Building in Phoenix, Ariz., a \$400,000 structure.

* * *

Nicholas J. Gannon, Jr. has been appointed general superintendent in charge of all field operations for Sharp & Fellows Co. of Los Angeles, Calif. His headquarters are at the company offices, 108 West Sixth St.

* * *

Robert Perkins, project manager, Art Cronin, general superintendent,

and Horace Bell, assistant superintendent, are key men for Claude C. Wood Co. on grading and gravel surfacing and two bridges south of Igo and 2.6 mi. west of Girvan, Shasta County, Calif. William B. Van Noate is office manager. Ed Walker is master mechanic. A State highway contract, the engineering is by Shasta County, with Ken Moody, resident engineer.

* * *

M. O. Mitty is project manager for O. K. Mitty & Sons' \$287,000 contract for State highway construction ½ mi. east of Chinese Camp, Tuolumne County, Calif. General superintendent on the work is R. N. Mitty, assisted by Gordon Johnson. Other key men: Howard Wheeler, master mechanic; George Welton, grade foreman; Ed Johns, labor foreman, and Pete Tomasovich, powder foreman. Resident engineer is F. J. Lethold.

* * *

Al Vercruyssen, general superintendent, and William Stanley, assistant superintendent, headed the personnel on the recently completed crushing and paving job near Roseville, Calif., for Baldwin Contracting Co., Inc. Other important men on the project: George Logan, equipment superintendent; John Zerkervich, crusher superintendent, and H. P. Bertolini, master mechanic. Mr. Hislop was State resident.

* * *

O. H. Tucker is project manager for the Tri-Dam Project on the Stanislaus River in Tuolumne and Calaveras counties, Calif., an over-\$31,000,000 project by the joint venture of Peter Kiewit Sons' Co., Stoltz, Inc., and Morrison Knudsen Co., Inc. In the first stages of construction now are two upstream units, Donnells and Beardsley dams.

General superintendent B. L. Perkins heads the personnel at Beardsley Dam. Project engineer is D. Richards. P. Smith is office engineer, with B. Doyl and E. Newton, surveyors. K. J. Hayes is day superintendent. Drill and shoot superintendent is C. Nielson, with T. Armitage as general foreman. H. Gard is excavation superintendent; M. Moore, T. Baker and Mel Stoddard, foremen. B. Doherty is master mechanic; H. Zigelhofer, C. Dapron and Floyd Gray, foremen. Carpenter shop foremen are Erhardt and N. Swanson. M. Krumpatic is concrete superintendent. General tunnel superintendent is G. Underwood, with P. M. Lee, superintendent, M. F. Lurz, night walker, and the following foremen: H. Ward, D. R. Greene and E. J. McEnroe. C. Seaton is electrical superintendent; D. Hobeck, safety man; H. Vergo, fire warden. In the warehouse, J. Sharp is foreman, assisted by M. Tuttle, N. Shanlein and L. Dixon. In the office, J. Meinzer is manager; D. Billings, camp manager; J. Hobson, chief accountant. Purchasing agent is P. L'Esperance,

and B. Armitage and M. Reinhard are engaged on clerical detail.

Tri-Dam Project is being built jointly for the South San Joaquin Irrigation District and Oakdale Irrigation District. B. W. Goodenough of Tudor-Goodenough Engineers is acting as project engineer. A. H. Griffin is office engineer, and H. Calloway, assistant. Paul Vergon is office manager. On Beardsley Dam, resident engineer is J. J. DeVorsice; William "Wally" Sims and Frank Bryant, inspectors. On Donnells, S. R. Overholser is resident, Richard Perley assistant, and "Pat" Cline, inspector.

* * *

P. J. Dunn, project manager; Myron H. Griggs, structure superintendent and E. E. Kerr, assistant, are key men for Piombo Construction Co. on freeway construction for the State of California near LaMoine, a project which started early last year and will probably run till September. Resident Engineer is W. H. Jacobson. "Tommy" Thomas is office manager, and Bob E. Lee is paymaster.



Dunn

Thomas



Shelton

Parkinson Kinney

Other important contractor men are: E. Flint, master mechanic; Jim Lewis, Jack Tucker, "Rosy" Shelton, J. C. Parkinson, and Bill Kinney, grade foremen; C. A. Frandsen, carpenter foreman; C. Salter, powder foreman; E. F. Venable, lube engineer. Len Swenson is in the tire shop. The following are heavy duty mechanics: Jack McDonald, D. E. Hars, Frank Miller and C. D. Washabough.

* * *

George Foster, project manager, is in charge of the Poe Project, on

**"WE LIKE
Yellow Strand
VERY MUCH.**

It outlasts other rope."



says:

**Edward S. Mando, Contractor,
Erie, Pa.**

Moving the 72", 5-ton section of concrete pipe into ditch with special hook and pin arrangement welded to shovel. Yellow Strand Wire Rope stands up to heavy load, resists kinking, remains flexible.

This storm sewer contract specifies 1,000' of storm sewer, including 1,000' of 72" concrete pipe. Sections of the concrete pipe weighed well over five tons each . . . this is reported to be the heaviest job of its kind ever to be done in Erie area. The pipe was laid by the same backhoe that dug the trench, and to

handle the load, the shovel had to be specially counterweighted.

Edward S. Mando, Erie contractor, knew that he'd need tough, abrasive-resistant and flexible wire rope for the job. He specified Broderick & Bascom Yellow Strand. Speaking from his experience on this contract and many other jobs

over the years, he says, "We like Yellow Strand very much. It outlasts other rope."

On the heaviest jobs . . . on the most rugged and demanding wire rope applications throughout the world, you'll find B & B Yellow Strand working as a vital and productive link between the machine and the material being handled. Make sure this link doesn't become a bottleneck for your production. Specify Yellow Strand next time you order wire rope.

BRODERICK & BASCOM ROPE CO.

4203 Union Blvd. • St. Louis 15, Mo.

Manufacturers of Wire Rope for 80 Years

655 Edmunds St., Seattle 8, Wash.
1518 N.W. Marshall St., Portland 9, Ore.
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270 North Street, Teterboro, New Jersey
1330 W. Fulton St., Chicago 7, Ill.
2441 Hunter St., Los Angeles 21, Calif.
9350 Market St. Road, Houston 15, Texas



See manufacturer's listing page 10, Yellow Section

the North Fork of the Feather River in California, for the joint venture firm of Utah Construction Co. and Bates & Rogers Construction Co. Reputed to be an excellent tunnel man, Foster has established safety and tunnel driving records on previous jobs. **Charles Hageman** is assistant project manager and chief engineer. **Wayne Glade**, who has been running construction job offices for 20 years, is office manager. Tunnel superintendent is **Bob Harless**; surface superintendent, **Cecil Welton**; master mechanic, **Herb Alexander**. Representing Pacific Gas & Electric Co., owner, are the following engineers: **Elmer E. Hall**, resident; **John Mattimoe**, assistant resident, and **Vance Bowden**, tunnel.

Electrical work is under subcontract, with **Art Meyers** superintending the job. "**Scotty**" **Fraser** is general foreman, assisted by **Pete Navone** and **Pete Goggia**, foremen. The office is being managed by **Frank W. King**.

* * *



JAMES W. SCHELL, superintendent on the Bear Creek flood control dam near Merced, Calif. **Ferry Brothers** was the contractor on the Corps of Engineers project.

* * *

"**Johnnie**" **Clark**, project manager, **G. Bawden**, general superintendent, and **Don Lee**, assistant superintendent, head the list of **Granite Construction Co.**'s forces working on bridge construction near Marysville, Calif. **Joe Mathis** is managing the office. Among the foremen are:



Clark Mathis

ville, Calif. **Joe Mathis** is managing the office. Among the foremen are:

J. D. "T-Bone" Nelson, and **Roy C. Sarge** Gassman, carpenter; and **Alex Frausto**, concrete. **Dick Gentzler** is resident engineer; **Howard Payne**, assistant.

* * *

Bob Kurtz, project manager for **Fredrickson & Watson**, directed a \$555,555 contract for highway construction at **Hatchet Mountain**, Calif., with **Fred Dohle** in the super-



Joe Mancebo

intendent spot, assisted by **Bill Adams**. **Alf Jacobsson** was office engineer. Other key men: **Joe Mancebo**, master mechanic; **George Parsons** and **Johnny Bettencourt**, mechanics; **Willy Vardanega**, labor foreman.

* * *

W. T. Spencer is general superintendent, and **Fred Straub** is superintendent on the **Gordon H. Ball** over-\$3,000,000 contract for 2.6 mi. of grading and surfacing and concrete bridges in **Contra Costa County**, west **Sunnybrook Dr.** and west of **Pleasant Hill Rd.** This is a 340-day job which got under way Oct. 24. **Wayne Haapala** is general manager—bridge division. Master mechanic is **Floyd "Andy" Anderson**.

* * *

Curt Vander Linden, superintendent for **Valley Paving & Construction Co., Inc.**, has charge of \$140,014 grading and surfacing job covering a 7.5-mi. stretch on the **Fairview-Shore** road in **San Benito County**, Calif. A 60-day contract, work started in mid-November.

* * *

W. B. Mackey is superintending a job, now concluding, in **Big Horn County**, Wyo., for **C. A. Reeves**, contractor who received the award on a low bid of \$172,118. Work covers grading and surfacing 7.6 mi. of **Burlington-Meeteetse** road. **Ed W. "Tiny" Johnson** is in the mechanic spot, and **John E. Hanft** is labor foreman.

* * *

L. J. Hinnewinkel is superintending the job, and **W. I. Sawyer** and **D. H. Homewood** are foremen on **Peter Kiewit Sons' Co.**'s award for construction of 4.3 mi. of the **Gallatin Gateway-South** road, Mont., a \$371,-229 project.

* * *

L. H. Weber is acting as his own superintendent on a \$108,000 award

to him for grading and surfacing 1.3 mi. of road in **Targhee National Forest**, Wyo. Earthwork is being done this fall; oil surfacing next spring. **Stephen L. Adams** is foreman.

* * *

Bob Howard supervised construction of the new **Safeway Store** in **Blythe, Calif.**, for **M. J. Brock & Sons, Inc.**, general contractor.

* * *

G. E. Marshall is acting as his own superintendent on a \$180,165 award for grading, surfacing, and structures on the **Van Norman-Glasgow** highway in **McCone County**, Mont. Foremen on the work for the **G. E. Marshall** contracting firm are **M. E. Helmer** and **E. R. Christian**.

* * *

John J. Morton, project manager, **Joe McNabb**, project engineer, and **Errol Platt**, business manager, are the top men handling the last major construction work on **The Dalles Dam**, a \$4,319,085 contract which went to **Guy F. Atkinson Co.** and **Ostrander Construction Co.** Contractor started on the closure dam in late October and has set the completion date at August 1, 1957.

* * *

Robert G. "Bob" Dwyre, project manager, and **M. "Scotty" Borthwick**, general superintendent, are head men on the \$477,738 construction of two reservoirs under way for the **City of Albuquerque**, New Mex., since June by the contracting firm of **Lembke, Clough & King, Inc.** Work



Mitchell Borthwick Harris

is expected to be finished in February. Foremen on the job are **T. L. McCorkle**, carpenter, and **Ramon Sisneros**, labor.

Caldwell Excavating Co. is doing the excavating, **Harlan Harris**, superintending. Forms manufactured by **Economy Forms Corp.** are being used on both the 6,000,000-gal. **Burton Park** reservoir, and the 4,000,000-gal. **West Mesa** reservoir, with **Virgil Gracey** in the foreman spot. **Joe Mitchell** is on the job for the local rental equipment company.

* * *

R. B. Crookston is general superintendent working for **Wangsgaard Construction Co.** on construction of roadway and surfacing on 12.9 mi. of **State Highway 11**, from **Pierce** to **Headquarters**, **Clearwater County**, Idaho, a \$551,816, 300-day project, which started in mid-October. **James Mathis** is assisting as foreman.

(Continued on page 175)

TRICKS of the TRADES



Beer Barrels *handle with care*

A METHOD OF HANDLING heavy glass-lined beer storage tanks with the Tirfor Griphoist was disclosed by E. W. Koll, owner of the G. W. Thomas Drayage and Rigging Co.

The operation was introduced at the five-story addition to the Burgermeister Brewery being built by Cahill Construction Co. at 470 10th St., San Francisco.

The problem presented to Koll embraced these factors: (1) 45 tanks measuring 10 ft. in diameter by 45 ft. in length, each weighing 25,000 lb. with a capacity of 30,000 gal. to be installed from one to four stories elevation; (2) the glass-lined tanks must be handled delicately to avoid damage; (3) interference with the Freeway approach traffic must be kept at a minimum; (4) the ever-present consideration of doing a good job at lower cost.

After conferring with Bill Ellis, foreman, Koll put into the operation two truck cranes, a Lorain 15 ton and a Northwest 20 ton, which elevated the tanks in position outside the building.

That was when the Griphoist unit went into action. Using a wire rope sling, a rigger secured the Griphoist to a column of the building, swung a bridle around the tank, and then, with a pull-push motion of the handle, pulled the tank into position. This was repeated 45 times.



The operation eliminated a winch truck, an operator, and a signal man and more than 50% in time. The fact that there is no limit to the length of the wire rope that can be used with the Griphoist was a decided advantage.

The average time for lifting each tank from the trailer and holding it in position was 10 min. An average time of 5 min. was required to pull each tank into the building.

Tips for tightening High strength bolts

SUCCESSFUL USE of high strength bolts in steel construction depends largely on accurate tightening, according to engineers of Russell, Burdsall & Ward Bolt and Nut Company.

To assure proper tensioning of bolts, standard procedures for air pressure settings and operating cycle of the impact wrench should be followed. And since varying conditions such as wrench characteristics, length of hose, temperature and height may change as the job progresses, periodic rechecking is recommended. Daily calibration normally is sufficient. This takes about 10 min.

Calibration means simply setting air pressure to stall the impact wrench when the desired tightness is reached. The same length air hose used on the job is recommended for calibrating the wrench. The pressure regulating valve with gage is first set at an arbitrary level known to deliver close to the desired tension. For $\frac{3}{4}$ -in. bolts the first setting is 60 psi., for $\frac{7}{8}$ -in. bolts 70 psi., and for 1-in. bolts 80 psi.

Next a new bolt with hardened washer is set up in the calibration device, taking care that the nut will work freely against the pressure plate when the impact wrench is applied. The nut is tightened until the wrench stalls (time is approximately 7 to 15 sec.). When the wrench chuck stops turning, the operator will feel the wrench "buck." Impacting a test bolt should not be resumed after stopping once, as the initial impact develops highest rate of output within the first 4 to 7 sec., and the torque set up would not be valid for field operations.

The hydraulic gage should not be seen by the operator performing calibration. After the wrench stalls, the tension set up in the bolt can be read on the gage. If it's too low, pressure should be raised; if tension is too high, the pressure should be lowered at the regulating valve. Adjustments should be in increments of 2 to 5 psi. A new bolt should be inserted for each test. These test bolts can be used later in the normal manner.

When the proper tension level has been reached, the wrench is tagged with the corresponding air pressure required and the size bolt used. Variations over 10% in tension are extremely rare. There is no maximum bolt tension recommended; they must only be pulled up to a minimum of 90% of the elastic proof load, shown in the table below.

Space conditions may make it desirable to tighten from the head end instead of the nut. R. B. & W. technicians recommend such a procedure provided the surfaces are parallel.

REPORTS

from the COURTS

By HOWARD S. BURNSIDE, Attorney and Registered Engineer

Restrictions on unlicensed partner

The case of *Palmer v. Brown*¹ concerns the familiar principle that one required by law to be licensed in his business or profession cannot recover on a contract for work when he is in fact unlicensed. This case differs from the ordinary in that there is involved a partnership in which one partner was not licensed at the time the job was done. The opinion of the court demonstrates the application of the law in a partnership situation.

"By statutory sanction, Palmer, as a licensed architect, was permitted to form a partnership for the conduct of business under the firm name with Krisel, an uncertified person." And such a partnership may validly contract under the partnership name and collect for services provided the services are performed by the licensed members and indicate on "all instruments of service" only the members of the firm who are architects.^{2 3} "The partnership entity may not be used as a facade behind which . . . services may be offered and furnished by unlicensed persons without compliance with the statutory requirements.

"A partnership need not notify its clients in writing that a particular member is unlicensed; however, a client has the right to expect that services will be performed by the licensed member, or at least under his responsible direction and that unlicensed partners will not be designated as architects.

"When the preparation by an unlicensed person of drawings, plans and specifications is directed, supervised, checked and approved by a licensed firm member, it may well be considered as the product of the firm whose professional services have been engaged and the purpose of the statutes is served.

"It is a violation of the rule against an unlicensed partner being designated an architect when such a person signs as an architect a certificate authorizing a progress payment, even though he becomes licensed the following day. It is no excuse that the unlicensed person was also a partner in view of the fact that the contract required the execution of certificates as part of the services to be rendered.

"Section 5539 as construed in Jo-

seph v. Drew² merely permits an architect to unite his technical skill with the business talent, financial means or special proficiency of some unlicensed person . . ."

Upon a violation it is possible for the client to resist further payments of fee and in addition he may recover amounts previously paid. Further, under certain circumstances a client may sustain an action against the architect for negligent failure to secure lien releases upon the giving of certificates for progress payments.

1. *Palmer v. Brown*, 127 Cal. App. 2d 44.
2. *Joseph v. Drew*, 36 Cal. 2d 575.
3. *Calif. Bus. and Prof. Code* 5539.

Councilmen liable for improper maintenance

It has been determined by the U. S. District Court for the District of Idaho that city councilmen may be held liable for the failure of the municipality and their failure individually to keep city streets in a reasonably safe condition for the public. Under a statute of the State of Idaho the council has to see to the maintenance of streets for and on behalf of the city. The mayor, however, was dismissed from the action, the court holding that he did not have such a duty and therefore could not be held liable for improper maintenance.

Lemmon v. Clayton, 128 F. Supp. 771.

Exception from licensing law

Plaintiff sued for the balance due on a sale and installation of a patented kitchen unit consisting of a sink, and garbage disposal, dishwasher and steel cabinets with incidentals consisting of changes in electrical outlets, laying of linoleum, painting, etc. After a judgment for the plaintiff the defendant appealed on the sole ground that the plaintiff was not a licensed contractor.

The trial court had found that the cabinets were pre-fabricated and a finished product and were not actually "fabricated into" the kitchen. It also found that the minor plumbing and electrical wiring was a part of the installation and necessary to the proper operation.

The judgment for the plaintiff was affirmed by the appellate court which based its decision on the sections of

the Business and Professions Code applying to specialty work.

"This chapter does not apply to the sale or installation of any finished products, materials, or articles of merchandise, which are not actually fabricated into and do not become a permanent fixed part of the structure."¹

In this case the minor electrical and plumbing work was regarded as a necessary part of the finished setup and not independent thereof and thus came within the exemption provisions of the Code.

The plaintiff was not a general contractor but specialized in the selling and installation of a brand of kitchen cabinets which he bought as a finished product. All incidental work was performed by licensed mechanics who received less than \$100.

Since plaintiff was a specialty contractor he was authorized to contract with two or more crafts to do and perform incidental and supplemental work.²

1. 7045 *Calif. Bus. and Prof. C.*
2. 7059 *Calif. Bus. and Prof. C.*
3. *E. A. Davis & Co. v. Richards*, 120 Cal. App. 2d 237.

Notes

In a condemnation proceeding by the City of Long Beach to obtain an easement for a public street over a railroad right of way, the court made a nominal award of \$1 and the railroad appealed. The Supreme Court of California reversed the decision. Generally only nominal compensation is required when a street is laid across tracks because the railroad can continue to use the tracks as before. But here, an existing parallel street was to be widened into a portion of the right of way leased by the railroad to a lumber company. The City argued that since the railroad had merely an easement to be used only for railroad purposes the company was not entitled to compensation for the taking or prevention of a commercial use. The court ordered a judgment to be entered to allow a proper sum for the property taken and the cost of changing certain poles and overhead facilities.

City of Long Beach v. Pac. Elec. Ry. Co.
283 P. 2d 1036

An easement is "A privilege, service, or convenience which one neighbor has of another, by prescription, grant, or necessary implication, and without profit; as a way over his land, a gate-way, water course, and the like.

Blacks Law Dictionary.

Where one joint adventurer, acting within the scope of the joint venture, and in furtherance of its agreed purposes, is guilty of fraud in procuring benefits which are retained by the joint adventurers, all are liable for the fraud in compensatory damages.¹

1. *Grant v. Weatherholt*, 123 A.C.A. 52.



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You can remove forms faster with Dehydratine 80 because it accelerates both the initial and final set. Here's why:

- Early strength is greater—liquid Dehydratine 80 mixed with cement can increase the 1 day strength by 300%, saves time at low temperatures—requires shorter protection period, permits quicker finishing, cuts delays between operations. Furthermore, Dehydratine 80:
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You owe it to yourself to take advantage of this money back guarantee today!

We'll send you a five gallon pail of Dehydratine 80 FREE with every fifty-five gallon drum ordered from your Building Supply Dealer or direct from one of our conveniently located warehouses. Try the five gallon pail and if you are not completely satisfied that it meets *all our claims* when used as directed, return the drum freight collect and we'll completely refund your money.

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- ☐ Please send me _____ 55 gallon drums Dehydratine 80 and _____ free 5 gallon pails.
☐ Please send 8 page descriptive technical bulletin.
☐ I want to see a salesman.

Name _____

Title _____

Company _____

Street _____ City _____

State _____

NEW LITERATURE

For your convenience in obtaining free copies of literature described, the company address is provided with each review.

Caterpillar adds new engines

Two new heavy duty diesel engines, D342 and D339, are described in a two-color release made available by Caterpillar Tractor Co. The bulletin provides a full explanation of the research and manufacturing operations going into the production of these two new engines. Pictures also illustrate a great variety of job applications including many common to the construction industry. Explanations are included to indicate the low maintenance and operating cost, as well as the special machining given to crankshafts and camshafts to extend engine life. Copies of the brochure, Form No. 31554, may be secured from any Caterpillar dealer or from the Caterpillar Tractor Co., at Peoria, Ill.

Flexible leak-proof hose

Under the title "Quick-Seal Couplings," a new and revised 20-page catalog features this complete line of direct-disconnect hose couplings. Illustrations show design features

which provide a tighter connection as internal pressure increases, together with a full swiveling action to prevent hose from twisting and kinking. The fully illustrated folder is available from Titeflex, Inc., 500 Frelinghuysen Ave., Newark 5, N. J.

Wood for schools

Advantages of wood construction for school buildings, described in text and illustrated in pictures, are the subject of a new publication "The Modern Wood School" just released by the National Lumber Manufacturers Assn. The 24-page brochure reviews school construction throughout the country. Copies of the booklet are available from National Lumber Manufacturers Assn., 1319 Eighteenth St. N. W., Washington 6, D. C.

Portable batch plant

The Ruby Portable Batch Plant designed to produce 35 yd. of specification concrete per hour, with complete portability for highway haul, electric powered and easily set up at the job is described in a specification

sheet by Clark's Welding Works, Perkins, Calif.

Survey markers for permanence

A 4-page folder describes Copperweld survey markers for permanent reference points. Markers are designed to provide an economical marker with long life and easy installation. Folder may be obtained from Copperweld Steel Co., Glassport, Pa.

Portable complete concrete plant

Auto-Crete, a name describing a completely portable batching and concrete mixing plant is described in a 12-page booklet by Koehring Co. of Calif. The booklet not only describes the plant and its features, but also reviews with step-by-step pictures the simple operations required to set it up with a 2-man crew in less than an hour. The aggregate bins hold 5½ yd. of gravel, 5½ yd. of sand and 125 cu. ft. of bulk cement. The mixer is a 16-sack size and the unit can be towed on the highway by any 1½-ton

The Secret to Lower Form Clamp Costs...

TAPER-TYE

The 9000 lb. Concrete Form Clamp!

Continuous tapered rod drives easily from one side of form.

PAT. NO. 2365563.

TAPER-TYES are sold outright or may be rented. Ask for details!

AVAILABLE IN TWO TYPES:

TYPE A

Tapered rod is threaded at each end—washers spin on or off.

Physical Characteristics of the Type A*

ROD LENGTH	DIAMETER		TAPER LENGTH	ACME THREAD LENGTH	WASHER DIAMETER	DISTANCE BETWEEN WASHER	
	LARGE END	SMALL END				MIN.	MAX.
36"	¾"	½"	22"	10"	4¼"	22"	30½"

ADJUSTABLE FROM 6" TO 14" CONCRETE

*Also available up to 61" lengths on special order.

TYPE B

Tapered rod is double-slotted on small end. Plate slides over rod, keyhole drops in slots for instant assembly.

Physical Characteristics of the Type B*

ROD LENGTH	DIAMETER		TAPER LENGTH	ACME THREAD LENGTH	WASHER DIAMETER	KEY PLATE SIZE	DISTANCE BETWEEN WASHER & KEY PLATE	
	LARGE END	SMALL END					MIN.	MAX.
36"	¾"	½"	22"	10"	4¼"	2"x6"x¼"	21"	29½"

ADJUSTABLE FROM 6" TO 13" CONCRETE

Only 3 pieces!

No Make-up!
Fast Stripping!
No Re-make-up!
Write for literature!



UNIQUE DESIGN—Small end of tapered rod is slotted on each side. Plate contains inverted keyhole.

FAST ASSEMBLY—No tools required. Simply slide plate on rod until keyhole drops in slots.

FAST STRIPPING—A quick tap and the plate loosens. Tapered keyhole sides prevent binding.

EASY REMOVAL FROM CONCRETE—Tapered rod instantly drives from concrete by tapping on small end.

Manufacturers of Concrete Form Equipment

H.J. KRUEPER CO.

535 SO. CLARENCE ST. • LOS ANGELES 33 • CALIF.
Telephone: ANGELUS 9-8204

Distributed by: W. J. BURKE AND CO., San Francisco, Los Angeles, Sacramento, Portland, Seattle, Albuquerque • INTERMOUNTAIN CONCRETE SPECIALTY CO., Salt Lake City • TRACTOR PARTS & EQUIPMENT CO., Phoenix • K. C. CONSTRUCTION SUPPLY CO., Denver.

See manufacturer's listing page 36, Yellow Section

PEAK PAYLOADS



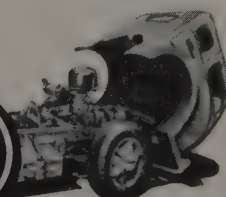
"Performance Record... EXCELLENT!" That's how Harold K. Fox, president of Hartman Concrete Materials Company of Bakersfield, California describes his 3-White 3000's, used with 6½ yard mixer units and with 18 ton semi tractor units for hauling rock and sand.

Expect more from White—more work, more payload, lower operating cost per mile! White's exclusive weight distribution and lightweight design consistently provide more efficient operation, now and for years to come. Where greater payload is a factor... where cost is a factor, you'll find definite advantages in White's specialized design. Get the facts as they apply to *your* business. Call your White Representative today!

THE WHITE MOTOR COMPANY

CLEVELAND 1, OHIO

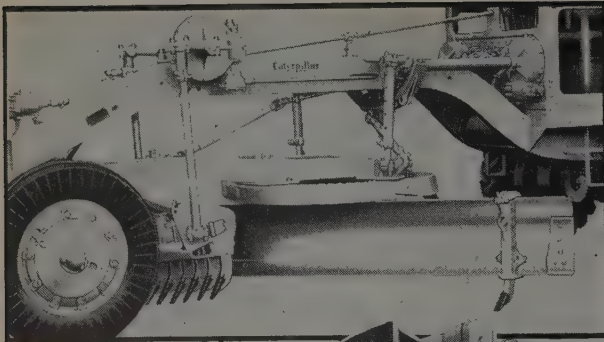
Factory Branches, Distributors and Dealers Everywhere



Tips its cab to service

FOR MORE THAN 55 YEARS THE GREATEST NAME IN TRUCKS

See manufacturer's listing page 60, Yellow Section

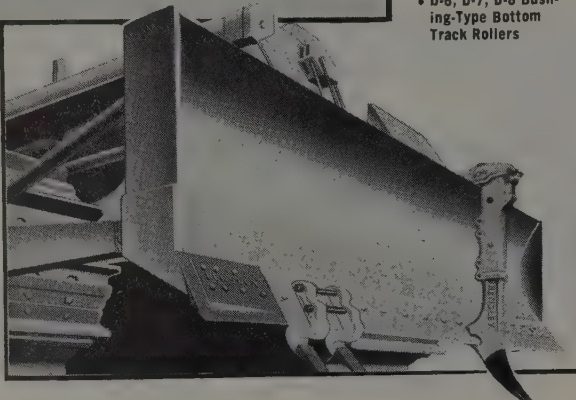


HENSLEY
TRADE MARK

- Dozer Rippers
- Dozer Brush Rakes
- Scraper Rippers
- Cutting Edges
- Rock End Bits (Shasta)
- Scarifier Shanks and Teeth
- Hitch Blocks
- Cable Cutters
- D-6, D-7, D-8 Bushing-Type Bottom Track Rollers

HENSLEY
TRADE MARK

- D-4 D-6, D-7, D-8, HD-9, HD-15, HD-19, HD-20, TD-14, TD-18, TD-24, Bearing-Type Bottom Track Rollers
- D-7, D-8, HD-19 HD-20, TD-24 Heavy-Duty Grouser Shoes
- D-7, D-8, Heavy-duty Rock Guards
- D-8 Sprocket Rims
- Bucket and Shovel Teeth
- Many Other Replacement Parts



When the going is tough . . . SEE YOUR NEAREST HENSLEY DEALER

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Coolidge, Douglas, Nogales

CALIFORNIA:

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Contractors' Equipment & Supply Co., Fresno
Crook Co., Bakersfield
Doug-Lynn Mfg. Mch. Co., Inc., Santa Rosa
Emerson-Braden, Colusa
Farmers Hardware & Equipment,
San Luis Obispo
Holz Co., Ukiah
Hust Bros., Marysville
Lowry Equipment Co., Redding
McGaraghan Supply Co., Eureka
Oroville Auto Parts, Oroville
Stockton Iron Works, Stockton
Western Equipment & Supply Co.,
Sacramento
Westside Tractor & Equipment, Willows

COLORADO:

S & M Supply Co., Grand Junction
Joe Smith Machinery, Denver

IDAHO:

Engineering Sales Service, Boise

IOWA:

Iowa Explosives & Supply Co., Des Moines

KANSAS:

Wenzel Mch. Rental & Sales, Kansas City

MICHIGAN

Bark River Culvert & Equipment, Bark River,
Ironwood

MINNESOTA:

Stevenson's, St. Cloud

MISSOURI:

Cooke Sales & Service, Chillicothe

MONTANA:

Westate Machinery, Billings

NEVADA:

Elko Blacksmith Shop, Elko
Pioneer Equipment Co., Reno

NEW MEXICO:

Lively Equipment Co., Albuquerque

OKLAHOMA:

R. A. Young & Sons, Tulsa

OREGON:

Cal.-Ore. Machinery, Medford
Western Equipment Co., Eugene and Portland

TEXAS:

Caprock Machinery, Amarillo
Deal's Machine Shop, Lubbock
Hi-Way Machinery, Dallas and San Antonio
W. L. Johnson Machinery Co., Midland
Lively Equipment Co., El Paso

UTAH:

J. T. Holland Co., Salt Lake City

WASHINGTON:

Pacific Hoist & Derrick Co., Puyallup and
Seattle
Western Machinery Co., Spokane

WISCONSIN:

Bark River Culvert & Equipment, Milwaukee,
Madison, Eau Claire, Green Bay

WYOMING:

Keremi Tractor & Equip. Co., Cheyenne and
Casper

ALASKA:

Western Tractor & Equipment Co.,
Anchorage and Fairbanks

CANADA:

Alberta Tractor Parts, Edmonton, Alberta
Columbia Equipment Ltd., Vancouver, B. C.

truck-tractor unit. It is particularly suited for jobs where high portability and small pours of from 100 to 150 cu. yd. per day are required. Power for all operations is supplied by a 25-kw. generator powered by gasoline engine. The descriptive booklet may be obtained from Koehring Co. of Calif., 2200 Country Club Blvd., Stockton 4, Calif.

Highway signs and markers

Every type of highway sign including the usual safety and warning signs for highway use, culvert markers, guide posts and miscellaneous reflectors are described with figures and dimensions in a 4-page folder just released by Zumar Industries, 1608 Essex St., Los Angeles 21, Calif. All of these items are carried in stock for immediate delivery.

Selecting wire rope

A new series of wire rope recommendation cards designed to assist contractors in selecting the proper grade and construction of wire rope for use on their equipment is now being distributed monthly by Bethlehem Pacific. Covering the most commonly used wire ropes in the construction field, each of these recommendation cards is printed as a sturdy, easy-to-read unit measuring 4 by 9 in. A metal grommet at the top of each card permits them to be held together for handy reference. Many cards have illustrations which show a cross section of the rope and its proper use on the job. This wire rope recommendation service may be obtained by writing to the Publications Dept., Bethlehem Pacific, 20th & Illinois Sts., San Francisco.

Portable rock plants

Portable rock plants are described with diagrams showing combination setups and tables of specifications in an 8-page booklet of Diamond Iron Works. The descriptive material covers means of setting up plants to maximum advantage, including primary crusher and portable crushing and screening units. Write **Diamond Iron Works**, Halsted St. & 48th Place, Chicago 9, Ill.

Concrete panel forms

In a 12-page booklet, **Superior Concrete Accessories**, illustrates and diagrams the use of their panels and accessories in erecting forms for various types of concrete structures. Particular importance is paid to forming corners on structures and the use of fillers. Copies can be obtained from the Pacific Coast Division office and factory at 2100 Williams St., San Leandro, Calif.

HENSLEY
TRADE MARK

EQUIPMENT COMPANY, INC. — MANUFACTURERS
800 PERALTA AVENUE • SAN LEANDRO, CALIF.

See manufacturer's listing page 31, Yellow Section

Power brakes for roller

The first application of power brakes to road rollers is announced by Buffalo-Springfield in Bulletin S-69-855. The power brakes are described in addition to other specifications on weights and compressions. Copies are available from Buffalo-Springfield Roller Co., Springfield, Ohio.

What is a turbodiesel?

Answers to basic questions relating to turbocharging for diesel engines are available in a 16-page four-colored booklet released by Cummins Engine Co., Inc. The company is producing five "Turbodiesels" ranging from 175 to 600 hp. and this represents the most complete line of turbocharged engines produced today among manufacturers of light weight diesel engines. The booklet illustrates with clear diagrams the principle of the turbocharger in developing additional horsepower for the engine. Charts are also included to show the torque, horsepower, and fuel consumption for the various size units. Copies of the reference book can be obtained from Cummins Engine Co., Inc., Columbus, Ind.

Handling concrete for bridges

Called a Conveyor-Car, a new machine for moving concrete into place on bridge decks is described in a folder issued by Penn Iron Works, Inc., Reading, Pa. The machine conveys concrete from mixer trucks at the end of a structure to the point of pour moving on the same tracks used by the spreader. Operating details are given together with complete specifications covering capacity, weight, dimensions, and power plant.

New A-C tractor shovel

Features of the new Allis-Chalmers HD-11G tractor shovel are presented pictorially in an 8-page catalog (MS-460) recently released by the Construction Machinery Division of Allis-Chalmers. The catalog provides specifications for the unit and it describes the features which have been introduced to provide easier servicing on the job. Also features designed for the operator's comfort are described. The booklet may be obtained from the Construction Machinery Division of Allis-Chalmers Mfg. Co., Milwaukee, Wis.

Dump bodies and hoists

The complete line of dump bodies, hydraulic hoists, trailer dumps, and special truck equipment manufactured by Hercules Steel Products Co. is pictured and described in a 4-page catalog. The models, capacities, and

Only
GOODALL
Gives You This
Assurance of
Extra **SAFETY**



"INFERNO" Steam Hose *With the* **BLACK SPIRAL STRIPE**

That black spiral stripe on the familiar red cover of "Inferno" shows at a glance that the steam hose selected for pile driving and other heavy-duty steam jobs will assure *unquestioned safety*, regardless of the severity of the service. There can be no mistaking an unsafe hose for the one built to stay on the job *longer*, without risk of bursting and consequent danger to men and damage to equipment.

"INFERNO" STEAM HOSE specifications include high-temperature tube; multiple-layer, braided steel wire carcass; wear- and weather-resistant "Synplastic" (R) cover. Sizes 1/2" to 3", inclusive, in maximum lengths of 50 feet.

"If it's GOODALL . . . it MUST be Good"

Contact Our Nearest Branch for Details and Prices

Standard of Quality—Since 1870



HOSE • BELTING • FOOTWEAR • CLOTHING
AND OTHER INDUSTRIAL RUBBER PRODUCTS

GOODALL *Rubber Company*

GENERAL OFFICES, MILLS and EXPORT DIVISION, TRENTON, N. J.
Branches and Distributors Throughout the United States and in Canada

recommended applications covering the entire line are shown with illustrations for each basic model type. Capacities range from 6 to 35 tons. Copies of the catalog are available direct from Hercules Steel Products Co., Galion, Ohio (Catalog 325).

A new rotary snow plow

Showing a dozen different mountings and setups, a 4-page folder by Wm. Bros illustrates its new series "A" Rotary Snow Plow. These plows are designed to be mounted on front-end loaders and almost every make of wheel-type tractor as well as jeeps. In addition, the plow can be mounted on

crawler tractors and motor graders. Tests indicate that the plow can load a 5-yd. truck in less than 30 sec. Operated by a 30-hp. engine, the unit is more economical than many larger units and much faster than bucket loaders. Operating kinks and methods are reviewed. Copies of the booklet may be obtained from Wm. Bros Boiler and Mfg. Co., Road Machinery Division, 1057 Tenth Ave., S. E., Minneapolis 14, Minn.

Concrete paving vibrators

Vibrators for concrete paving are described in a 4-page folder released by Maginniss Power Tool Co., Mans-

field, Ohio. The booklet illustrates the installation of vibrator attachments to concrete pavers.

Nickel plated steel

A technical description of CF&I Bart lectro-clad nickel-plated steel reviewing manufacturing techniques and procedures used for fabrication is available from **Colorado Fuel & Iron Corp.**, 575 Madison Ave., New York 22, N. Y. The Bart process deposits nickel on steel plate in thicknesses from .006 to .02 in. and the resulting nickel-plated steel can be cut and shaped without damage to the plating.

Coating for concrete forms

A form coating for concrete forms, either wood or metal, is described in a leaflet available from **Stonhard Co.**, 1306 Spring Garden St., Philadelphia 23, Pa. The product does not soak into wood forms and allows free-stripping, saving labor. It also acts as a preventive against formation of rust on steel forms.

Fasteners for powder tools

Illustrating in full size about 75 fasteners designed for use with its powder-actuated tools, **Ramset Fasteners, Inc.**, has released a new catalog of 8 pages. The catalog describes the line of tools, illustrates the types of problems particularly adapted to this type of fasteners with groupings to show proper use depending on materials to be fastened. Copies are available from Ramset Fasteners, Inc., 12117 Berea Road, Cleveland 11, Ohio.

Asbestos coated roofing

American Steel Band Co. has released a 4-page bulletin on "Steelbestos," a fire resistant, asbestos protected roofing and siding material for buildings. The material is described with specifications and illustrations of use on specific structures.

Trenchers and backfillers

The complete line of Cleveland trenchers and backfillers—8 models representing a wide variety of uses—is described in a 4-page bulletin just published by **Cleveland Trencher Co.**, 20100 St. Clair Ave., Cleveland 17, Ohio. Recent revisions of several specifications for the Model 80W backfiller represent the principal difference between this addition and previous bulletins. Action photographs show models carrying out all types of trenching work.

Heaters and weatherproof

Oil heaters are described in a 4-page folder just issued by the Road Machinery Division of **Wm. Bros Boiler & Mfg. Co.**, 1057 Tenth Ave. S.E., Minneapolis 14, Minn. The

Armco Pipe Piles

SUPPORT RIO GRANDE BRIDGE

North of Albuquerque, New Mexico, a new bridge was required to replace an old structure. The design of the bridge called for precast concrete girders supported by welded steel pipe pile bents.

Armco Welded Steel Pipe Piles got the job. The bridge, 962 feet long with 19 spans, used 7,238 feet of Armco Piles, 16-inch diameter and .188-inch wall thickness. Each bent contained seven 65-foot piles, driven approximately 50 feet into the sand and gravel river bottom. Piles were driven on a batter to compensate for live load impact.

After inserting 44-foot steel reinforcing cages, each Armco Pile was filled with concrete. Then each bent was capped by a reinforced concrete beam 29 feet long.

Armco Pipe Piles are widely used for foundations of bridges, underpasses and buildings. They are supplied in a wide range of diameters, wall thicknesses and exact lengths. Write us for more data.

ARMCO DRAINAGE & METAL PRODUCTS, INC.

CALCO AND NORTH PACIFIC DIVISIONS

Berkeley • Los Angeles
Portland • Seattle • Spokane



View of the partly-finished Alameda Bridge spanning the Rio Grande River near Albuquerque, New Mexico. Bents are composed of Armco 16-inch Spiral Welded Pipe Piles.

PRIME CONTRACTOR: SHARP & FELLOWS, LOS ANGELES
PROJECT ENGINEER: B. M. LONG, NEW MEXICO HIGHWAY DEPARTMENT

Armco Pipe Piles



See manufacturer's listing page 6, Yellow Section

Why the **Big "B"** Rear-Dump



can cut your hauling costs

Speeds to 34 mph

The new 35-ton capacity B Tournapull Rear-Dump has 10 forward speeds, from 2 mph to 34 mph ... 2 reverse speeds, 2 and 4 mph. Rapid shift and quick acceleration of 293 hp diesel engine lets you move faster and easier into higher gear ranges.

Improved gradability

Proper distribution of weight forward



ward onto drive wheels allows "B" to go up steep grades.

Fast loading

Large "target" area makes loading fast and simple. Bowl is 17'8" long, 10'2" wide, has maximum depth of 7'6". Rear of body provides wide, low entry which gives excavator faster loadings.

Fingertip control of dumping

The touch of a switch, activates hoist motor to lift body. As body lifts quickly, it swings behind rear wheels to dump clean. Completely streamlined bowl sheds material readily. There is positive control both up and down.

Rugged Construction

Body is heavy steel plate, rigidly reinforced. Three layer bottom consists of heavy bottom plate, thick steel billets and heat treat-

ed steel strips to resist wear. Main case of prime-mover is built extra strong ... will not distort to put strain on power-train.

No hydraulics, springs or hinged steering connections

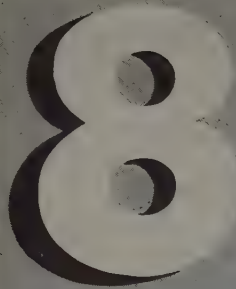
Problems of conventional rear-dumps are eliminated by simple design of "B" Rear-Dump. Troublesome hydraulics, long driveshafts, springs, spring hangers and hinged steering connections are eliminated. Improved hauler means higher mechanical efficiency and lower maintenance costs on all hauling jobs.

See your LeTourneau-Westinghouse Distributor about the new "B" Rear-Dump today. He can also show you how this unit can be interchanged with a Scraper or Crane, at only about 25% of original total price.

Tournapull—Trademark Reg. U.S. Pat. Off. BR-889-G-b

LeTourneau-WESTINGHOUSE Company
Peoria, Illinois

A Subsidiary of Westinghouse Air Brake Company



Reasons Why UNI-FORM PANELS ARE THE MOST WIDELY USED PREFABRICATED FORM IN THE INDUSTRY...

VERSATILITY

Uni-Form Panels will form straight, irregular, curved, battered walls . . . slabs, beams, columns, piers—everything from small house foundations to massive concrete structures.

COMPLETE — READY TO USE

The Uni-Form Panel System is complete, ready to use when it reaches the job. Eliminates field fabrication. Result: FASTER JOB STARTS.

FAST ERECTION

Simple assembly of easy to handle panels increases productivity of labor. Form more contact area per man hour with Uni-Form Panels.

AUTOMATIC ACCURACY

Assembly of Panels with Uni-Form Ties furnished for any wall thickness insures automatically accurate forming. Tie positively locks and spreads panels. No measuring . . . no guesswork.

LUMBER SAVINGS

You use less lumber in Uni-Forming. Steel-framed panels erect into a tight, rigid form requiring minimum alignment and bracing on 1 side only—regardless of height. Saves labor too.

FASTER STRIPPING

Less alignment and bracing lumber . . . fewer parts to remove means faster stripping, lower costs.

LONG LIFE

Rugged steel frame designed for fast pouring, cradles and protects plywood edges . . . permits maximum re-usage of plywood (actually 50 times or more) before replacement is necessary. Minimum panel maintenance required . . . lower material costs.

EXPERT ENGINEERING SERVICE

Universal's engineering staff and field engineers provide competent, specialized assistance, backed by over 40 years of experience in concrete forming.

3 SIMPLE STEPS FOR ASSEMBLY



1. Insert Tie loop in Panel tie hole.



2. Tie Key locks Uni-Form Tie to Panel.



3. Tie loop receives adjacent Panel. Insertion of Tie Key completes tying, locking and spreading operation.



3 BASIC ELEMENTS UNI-FORM PANEL

... Heavy duty — steel-framed, plywood faced.

UNI-FORM TIE

... High strength, easy break-back.

UNI-FORM TIE KEY

... Wedge shaped for fast, easy insertion and removal. Reusable.

UNIVERSAL FORM CLAMP CO.

1238 N. Kostner Avenue • Chicago 51, Illinois

Distributed by:

UNIVERSAL EQUIPMENT CO.

1549 Eastlake Ave., Seattle 2, Washington

UNIVERSAL FORM CLAMP CO.

2051-59 Williams St., San Leandro, Calif.

UNIVERSAL FORM CLAMP CO.

5855 S. Western Ave., Los Angeles, Calif.

brochure points out the special features of these heaters including the fact that the entire electrical system is weatherproofed. The units will meet requirements for heating temperatures up to 500 deg. F. where low pressures are desirable.

Hydraulic horsepower

Power produced by hydraulic pressure, referred to as hydraulic horsepower, is reviewed in a 16-page booklet just released by Char-Lynn Co. of Minneapolis. Copies can be secured from Geo. A. Kushman, 95 Market St., Oakland, Calif. The booklet shows the product line with performance curves and dimensions of various units. Such items as cylinder speed, horsepower required, the volume of oil needed, sizes of pipe, and pump sizes are discussed in the booklet.

The Johns-Manville products

A handbook of Johns-Manville products containing information on 11 lines including transite pipe, conduits, friction materials and building roofs and sidings is now available from that company. The handbook contains not only descriptions of the various products, but engineering data on related subjects. Copies of "Johns-Manville Products Handbook" are now available from Johns-Manville, 22 East 40th St., New York 16, N. Y.

For screening sand and gravel

Vibrating screens are described in a 20-page booklet published by Pioneer Engineering Works, Inc., 1515 Central Ave., Minneapolis, Minn. The Super Service line includes 11 standard sizes of single-mounted and four standard combination sizes of tandem-mounted vibrating screens adaptable to many applications. The booklet also has information on washing attachments, spouts, chutes, hoppers, and spring suspension. These heavy duty units are particularly adapted to crushed rock, sand, and gravel.

Standard steel buildings

"Buildings by Luria" is the 28-page illustrated catalog which describes the standardized steel structures designed and produced by that company. A new series of flat roof structures is described for the first time and information is made available on rigid frames offering clear spans of more than 100 ft. The catalog also describes the wide choice of standard door and window combinations. Copies of the catalog may be obtained by writing on company stationery to the executive offices of Luria Engineering Co., 511 Fifth Ave., New York 17, N. Y.

See manufacturer's listing page 57, Yellow Section



When these pictures were taken, machines were working in very cramped quarters to level a road through the school grounds. Making a narrow cross-wise cut, Tournapulls had to back into a 161-hp crawler to be push-loaded. In about 100', Tournapull loads 10 yards of sand and clay in 55 seconds. This high school, being built by the Jefferson Union High School District, will serve a new community of more than 13,000 people.



Tournapull spreads its 10 yard load of sand and clay over a 100' strip as it levels grounds for Westmoor High. Two LeTourneau-Westinghouse sheepfoot rollers, towed by 155-hp crawlers, helped to compact fills, some as deep as 42'.

Move 300,000 yards to level 45 acres in 45 working days

Robert A. Farish, South San Francisco, California, had 45 acres of land to level in Daly City for the Westmoor High School building and grounds. To bring land to grade, 300,000 cubic yards of sand mixed with some clay had to be moved...fills deep as 42' had to be constructed.

Important in the Farish equipment fleet that handled the job were 3 C Tournapulls. These self-powered scrapers, working 45 hours a week, for two months, hauled 1/3 of the yardage. Three self-powered and 3 tractor-drawn, 20-yd. scrapers moved the rest.

When these pictures were taken, job was all but completed, and Tournapulls were cutting a road through the area...hauling spoil for 1200', including about 400' up an 8% grade, spreading material to raise low spots.

2600' cycles take 5¼ minutes

Each "C" completed a 2600-foot cycle, over roads of compacted sand fill, every 5¼ minutes. On shorter 800' one-way hauls, each Tournapull delivered 12 loads, of about 10 yards each, every hour, estimates Boyd R. Cable, Superintendent on the job.

"Tournapulls have been working out fine," Says Owner Robert Farish.

"They have a good power plant," adds Superintendent Cable.

Referring to the continually wet weather in this coastal fog belt (the sun shone only three days while this job was in progress), Superintendent Cable says, "Tournapulls are maneuverable. You get wet weather and you have to park the others—but 'C's' keep right on working."

Built for operator comfort

Operators particularly like the many comfort features built into Tournapulls...the air-foam cushioned seat...the big, low-pressure tires that absorb much of the shocks and jars of travel over rough ground...the convenient dashboard location of "push-button" controls.

Operator Glenn Ward says, "I've been moving dirt 28 years and these are nice to run. They don't wear you out. Seat fits your back—no back trouble with these."

95% efficient in 8,000 hours

The three "C's" on this job have also handled numerous jobs for contractor Farish, including 750,000 yards for a housing project at El Sobrante,



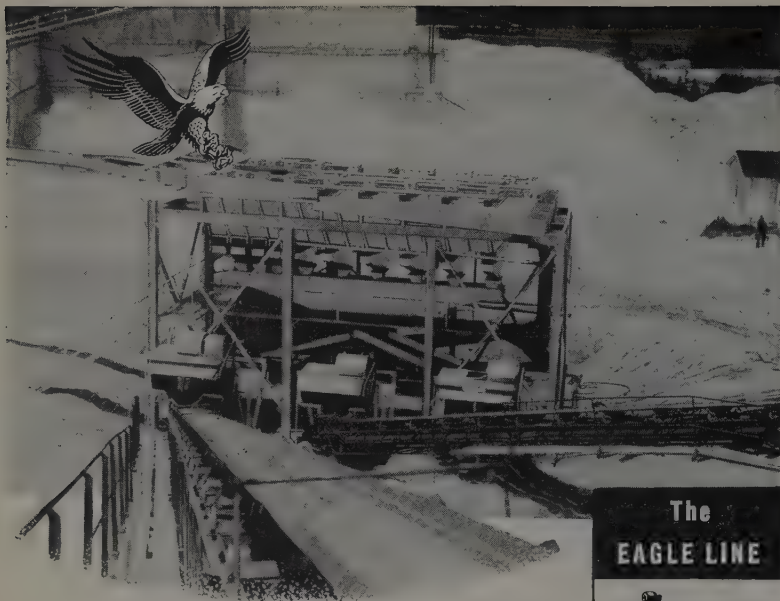
and 170,000 yards in an earthmoving project at West View. In a combined total of more than 8,000 hours of work, the three "C's" have been 95% mechanically efficient.

Before you bid your next job, ask to see figures on Tournapulls. Their speed (up to 30 mph), short turn radius (15 feet), and versatility (same prime-mover powers rear-dump, bottom-dump, crane, and flat-bed trailing units) can be important factors in cutting your costs.

Tournapull—Trademark Reg. U.S. Pat. Off. P-909-B-h

LeTourneau-WESTINGHOUSE Company
Peoria, Illinois

A Subsidiary of Westinghouse Air Brake Company



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-Classifier-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, Iowa

Brown-Bevis-Industrial Equip. Co.
Los Angeles, Calif.
Coast Equipment Co.
San Francisco, Calif.
P. L. Crooks & Co.
Portland, Ore.
Intermountain Equip. Co.
Boise, Pocatello, Idaho.
Spokane, Wash.

Keremi Tractor & Equip. Co.
Cheyenne, Casper, Wyo.
The Lang Co.
Salt Lake City, Utah
H. W. Moore Equip. Co.
Denver, Colo.
Jack Sahiberg Equip. Co.
Seattle, Wash.

Shriver Machinery Co.
Phoenix, Ariz.

Sierra Machinery Co.
Reno, Nev.

N. C. Ribble Co.
Albuquerque, N. M.

Western Construction Equip. Co.
Billings, Missoula, Mont.

See manufacturer's listing page 23, Yellow Section

Construction Handbook

One hundred pages of valuable information, published as a "Facts and Figures" handbook, is now 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.

For controlling slopes

Use of gunite to control erosion on earth and loose-rock slopes is outlined in a 4-page bulletin released by the Gunite Contractors Assn., 714 W. Olympic Blvd., Los Angeles 15, Calif. Erosion control jobs are featured.

Aggregate production

An entirely new addition of a 124-page book entitled "Aggregate Producers Handbook" has been released for distribution by Smith Engineering Works of Milwaukee 1, Wis. Material in the book has been collected over a period of many 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.

Aluminum for highway signs

Advantages of aluminum panels for highway signs are outlined in a brochure published by Reynolds Metals Co., 314 East Burnett Ave., Louisville, Ky. These extruded metal panels, which are interlocking as assembled, provide for greater speed and convenience in erecting highway signs as well as offering longer maintenance-free service. The permanent surfaces are unaffected by rain, sun, or winter weather.

(Continued on page 177)

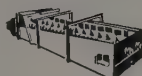
The EAGLE LINE



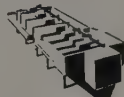
FINE MATERIAL WASHERS



COARSE MATERIAL WASHERS



LOG WASHERS



WATER SCALPING—CLASSIFYING TANKS.



"SWINTEK" DREDGE LADDERS



COMPLETE DREDGES



BREAKER BALLS & PILE HAMMERS.

"***GREAT***" for all-around utility work

says Supt. on Garden State Parkway contract



On their 14 mile section of the Garden State Parkway in Cape May County, New Jersey, Public Constructors, Inc., Pleasantville, are using a 19 mph rubber-tired Tournatractor for all-around utility work.

This 208 hp tractor works all over their widely-scattered 2¼ million-yard sand job. It often moves ahead of the company's 33 scrapers to clear trees and brush and handle pioneer dozing. At times, it is used to level cuts and fills and to doze around bridges and culverts. Because of its speed and maneuverability, tractor-on-rubber performs these utility assignments without interfering with production dirtmoving.

Besides leveling work, Tournatractor is also used to push-load some of the contractors' 11 C Tournapulls. Where material is pure white sand, tractor's fast pusher-service loads the 16-yd. "C's" in as little as 45 seconds.

Used for other scattered jobs

Tournatractor is always ready for emergency calls, too. Jobs 5 miles away can be reached in 20 minutes (or less) due to its 19 mph speed. Cleaning haul roads and dozing fill on distant sections of the job are handled quickly and efficiently. Paved highways present no travel problems for the tractor-on-rubber. It goes everywhere under its own power...

needs no blocking, planking, trailer-loading and unloading. For all around utility service, it "gives a great performance day after day," says Supt. John Franks.

Discover for yourself why the fast, mobile Tournatractor is ideal for utility-type assignments, as well as major tractor work. Phone or write for a demonstration on your job, today. There's no obligation.

Tournatractor, Tournapull—Trademark Reg. U.S. Pat. Off. T-837-H-5

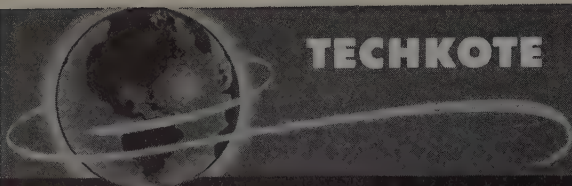


Tournatractor, with its 4-wheel drive, push-loads 16-yard C Tournapull in 45 to 60 seconds. Big low-pressure tires provide plenty of traction and flotation even in this poor, sandy footing.

LeTourneau-WESTINGHOUSE Company

Peoria, Illinois

A Subsidiary of Westinghouse Air Brake Company



... 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.
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Casper, Wyoming, Casper Concrete Co.
Denver, Colorado, K. C. Construction Supply Co.
Albuquerque, New Mexico, W. J. Burke & Co., Inc.
San Antonio, Texas, Rufus A. Walker & Co.
Phoenix, Arizona, Superior Building Materials
Honolulu, T. H., R. L. Castendyk Company
Vancouver, B. C., Canada, Burrard Construction Supplies, Ltd.
Salt Lake City, Utah, Intermountain Concrete Specialties

TO BE SURE . . .



USE THE FINEST!

TECHKOTE

COMPANY

INCORPORATED

820 W. Manchester Avenue, Inglewood, California



are also available. Literature and prices may be obtained from Caterpillar distributors, or from the American Tractor Equipment Corp., 9131 San Leandro Blvd., Oakland 3, Calif.

Galion announces super grader

Galion is now in production of a motor grader, designated Model T-700, which they claim is the world's biggest, heaviest, and most productive motor grader. The total weight of the machine with scarifier is listed at



40,125 lb., far outstripping anything in the grader field. It is powered by a 190-hp. Cummins diesel engine. Features listed as standard equipment include a hydraulic shiftable mold board 14 ft. long, 30 ft. high, and 1 in. thick, 4-wheel hydraulic brakes, a transmission brake for parking, and a foot decelerator. Galion Iron Works & Manufacturing Co., Galion, Ohio.

Latest Jaeger truck mixers

Characteristics of the latest type Jaeger standard Model D truck mixers are shortened center of gravity



INSIDE TIRE FACTS

HOW TO SAVE 50%

YOU SAVE at least 50% of cost of new tires . . . and get equal hours of ADDITIONAL SERVICE, when you order your off-highway tires retreaded by WHEELER, at Salt Lake City, with the Hawkinson system . . . Attractive discounts, too. Quotations on request. Save freight. Wheeler is centrally located to entire Northwest. Wire, write or phone today!



WHEELER CAN DOUBLE THE LIFE of YOUR OFF-HIGHWAY TIRES!

SECTIONS AND RECAPPING SIZES

1200x24; 1300x24 (grader);
1400x24; 1800x24-25;
2100x24-25; 2400x24-25;
and 2400x29.

Phone: INGERSOLL
68646
SALT
LAKE
CITY

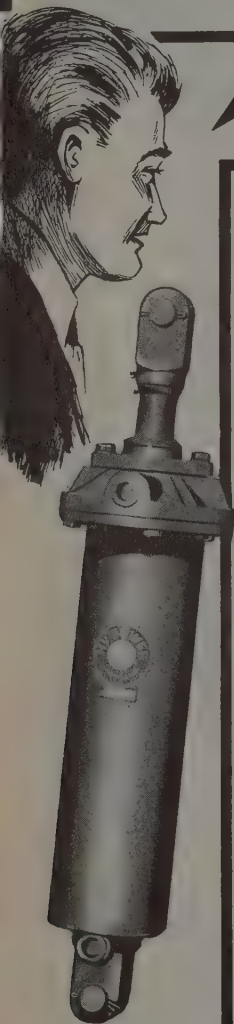
WHEELER—for finest recapping of
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tributor of General Tires.

KRAFT
SYSTEM
RECAPPING
A GENERAL TIRE SERVICE

WHEELER'S AT SALT LAKE CITY

WHEELER GENERAL TIRE CO., 1338 South Second West PHONE 68646

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

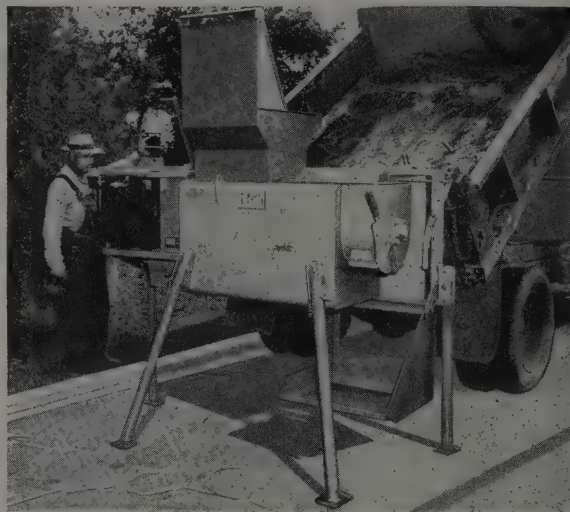
FACTORY REPRESENTATIVES: GREYER & GREYER
 P. O. BOX 47 • STOCKTON, CALIFORNIA

See manufacturer's listing page 57, Yellow Section

and reduced weight, 3-speed transmission with single lever control, and a complete choice of optional equipment to fit local conditions and plant requirements. Standard sizes range from 8½ cu. yd. down to 3½ cu. yd. model which will haul 3 to 3½ yd. on single axles or 4 to 4½ yd. on the lightest tandem axle trucks. A choice of water injection at rear end or through drum head is offered. Complete information may be obtained by writing the Jaeger Machine Co., Columbus 16, Ohio.

Tail-gate asphalt-patch mixer

An improved model of its Heat-a-Mix tail-gate asphalt-patch mixer has been announced by Wylie Manufacturing Co., P. O. Box 7086, Oklahoma City, Okla. It is a



compact, high capacity pugmill and material heater, self-contained with its own gasoline engine and propane or kerosene heating system. New features include a forward-and-reverse transmission, which makes it possible to retain material in the pugmill until it reaches the temperature desired. There is no direct flame in contact with asphalt material. The entire unit by means of its new removable, adjustable legs, can now be quickly transferred from one truck to another on the road without a crane or hoist.

Trailers with removable goosenecks

Model GPR removable gooseneck trailers have been announced by Transport Trailers, Inc., 1211 12th St., S.W., Cedar Rapids, Iowa. Developed to provide greater safety and convenience in loading and unloading heavy



equipment for transport in congested areas, these removable gooseneck trailers are available with flat or drop platforms, and as beam trailers with or without removable side platforms and telescoping outriggers. Capacities range from 15 to 60 tons for standard production models with special engineered units up through 100 tons.

MODERN CONSTRUCTION METHODS REQUIRE "JOB TAILORED" CEMENTS

THE NEW ST. JOHN'S SCHOOL in El Cerrito, featuring the first use of corrugated paper boxes for lift-slab forms in Northern California. This technique eliminated need for expensive forming, while providing great weight saving and reductions in construction time. Boxes either fall out or are easily removed by hand, leaving true, smooth beams and coffers.

**PAPER BOX PATTERNS
FORM
LIGHTER
LIFTS**

Roof and second story slabs in place. The 8-classroom school will be one story in front, designed to eliminate the second floor corridor.

Paper boxes are framed in reinforcing steel. Hand placing of concrete starts at far end. Note masking tape used to seal boxes into a unit.

The use of paperbox forms and unique structural design (see captions) were not the only modern techniques used in construction of St. John's School in El Cerrito. Architect Vincent G. Raney further reduced construction costs and job time by planning for lift slab erection (by Vagtborg Lift-Slab Corp.); special parting compounds between slabs; and special adhesives for securing the boxes to the slabs without discoloration.

Indication of the care and planning that went into this structure was evidenced in the selection of Permanente Type I Standard Portland cement, supplied by Golden Gate Stucco and Ready-mix Company, Albany. The concrete, as used, developed 3,200 psi minimum at seven days.



*On the job On time **

**PERMANENTE
CEMENT COMPANY**

PERMANENTE, SANTA CLARA, YOSEMITE AND KAISER BRANDS OF PORTLAND CEMENT AND PERMANENTE LIME PRODUCTS

OAKLAND • PORTLAND • SEATTLE • EAST PASCO
ANCHORAGE • FAIRBANKS • HONOLULU

Loader-backhoe for Case tractors

Ottawa Steel Division of the L. A. Young Spring & Wire Corp., P. O.



Box 39, Ottawa, Kansas, is now manufacturing a front end loader and industrial backhoe for the Case

Co., 420 and 425 tractors. The backhoe is available in two models for each tractor. One model digs 8½ ft. deep and the other 11 ft. deep. It features a hydraulically actuated bucket which makes it possible to retain the materials while loading into trucks over 8½ ft. in height. The loader is equipped with 4 double acting hydraulic cylinders; 2 to raise, lower, hold, and provide down pressure on the bucket, and two to dump and retract the bucket. The bucket is in digging position when it reaches the ground. Further information is available.

Trackmobile for railroad cars

Now in manufacture is the Trackmobile that hauls, switches, and spots railroad cars. The trackmobile can run on roadways or on tracks by virtue of retractable automobile-type road wheels. The conversion from road to rail wheels takes only 90 sec. The machine develops as much as 12,800 lb. of draw-bar pull, which is sufficient to pull a number of heavily loaded railroad cars. All controls, including those for positioning, raising and lowering the automotive-type wheels, and coupling and uncoupling, are located in the cab. The cab is elevated and enclosed in glass to provide 360-deg. visibility and all-weather operation. **Whiting Corp., Harvey, Ill.**

Demolition and digging tools

A new line of paving breakers, demolition, and digging tools has been announced by **Ingersoll-Rand, 11 Broadway, New York 4, N. Y.** The tools are for application under conditions where hazardous liquids would be ignited by a spark. Literature is available.

Odorless concrete sealer

Aqua-Dry is a concrete sealer that is odorless, non-peeling, and non-chipping. It has an affinity for moisture only before it sets. All the various jobs can be carried out with the one material. If large holes call for mortar, fine sand and water can be added to Aqua-Dry to make a paste. It can be tinted to desired colors and retails for \$3.45 a gal. west of the Rockies, and is manufactured by **Rex Chemical Co., 906 N. Western Ave., Chicago, Ill.**

Winch is world's largest

Availability of the world's largest towing winch of matched design for the new Caterpillar D9 crawler tractor has been announced by **Hyster Co., 2902 N.E. Clackamas St., Portland 8, Ore.** The winch develops



a line pull of 76,000 lb. Barrel diameter of the drum is 16 in., flange diameter is 27 in., and barrel length is 11 in. The cable capacity is 269 ft. of 1½-in. line or 217 ft. of 1¼-in. line. An automatic brake is available as optional equipment. Net weight is about 3,250 lb. The winch is available in two versions, one for the direct drive Caterpillar tractor, the other with alternative intermediate gear train to suit the D9 torque converter model. Literature is available.

JETCO JIFFY® HEAVY DUTY EQUIPMENT

FOR ALL TYPES OF TRENCHERS

HEAVY DUTY WHEELS

Fabricated of high alloy steel for long wear. Standard ¾", ¾", or 1" thicknesses, or to specification.

Standard or specified diameters.

Holes pre-drilled for bucket installation.

Shipped ready for installation.

Photo of Cleveland 320 heavy duty wheel, buckets and teeth.

HEAVY DUTY BUCKETS

Fabricated from high quality steel in ¾", ¾" and ¾" thicknesses. • No further welding or hole drilling necessary. • Jetco weld-on pockets give added strength to bucket. • Pre-drilled holes for side-cutters included.

Shipped ready for installation.

HEAVY DUTY TEETH & POCKETS

Drop-forged, weld-on pocket with smooth radius for positive taper fit with Jetco Jiffy Teeth—no bolts. • Self-sharpening, quick change, reversible teeth of high quality steel for longer wear. • Teeth designed for all types of soils. • Minimum leading edge leverage.

Write for catalog



JETCO, INC.

Dept. C, 1100 Westminster Avenue
Alhambra, California

See manufacturer's listing page 35, Yellow Section



FROM COOK BROS. . . .

*the finest line of batch trucks
in the construction industry*



WITH UNMATCHED POWER AND "BIG LEAGUE" HAULING CAPACITY

COOK BROS. "M-310" BATCH TRUCKS

... haul five big "34E Paver" batches per load, giving 25% more batching capacity! The "M-310" is tough, rugged, quality-built with short wheelbase ... easy to handle and maneuver in small areas, on or off the highway ... hauls more weight on a heavy duty front axle,

and has a 15 ton legal payload capacity in most states, including California. Batch gates are easily and quickly removed for regular dump truck service.

The single-passenger cab (beside engine) provides unobstructed driver vision. The oversize steering wheel, easily-read instrument panel, and hydraulically-suspended seat assure 100% driving efficiency.

COOK BROS. "LOAD KING" BATCH TRUCK

The C-B "Load King" delivers material at the rate of five one-yard-plus batches per load!

"Load King's" exclusive front end design provides a new experience in driving ease and safety, without power steering. The extra strong front end is designed for more weight ... all net payload.

The cab forward design means shorter wheelbase for

greater ease of maneuverability. C-B Dual Drive (Chain or Gear) with transmission to meet your hauling needs, packs plenty of climbing pull for grades, and plenty of speed for today's modern Freeway Driving.

Payloads up to 15 tons on "Load King's" shorter wheelbase with more uniform load distribution, is legal in many states, including California.

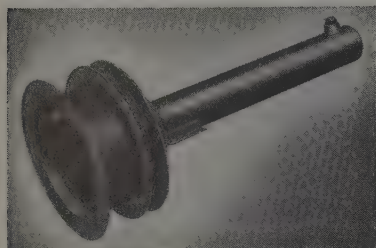
MANUFACTURERS OF: HEAVY DUTY TRUCKS • TRUCK EQUIPMENT • DUAL CENTER CHAIN DRIVES • DUAL GEAR DRIVES • DUMP BODIES • HYDRAULIC HOISTS • TRAILERS • TELESCOPIC DUMP TRAILERS • BOTTOM DUMP TRAILERS • SIX WHEEL ATTACHMENTS • FRAME EXTENSIONS
DISTRIBUTORS FOR: CHALLENGE TRUCK MIERS • C. S. JOHNSON BATCH PLANTS • PIONEER ROCK PLANT EQUIPMENT • AMERICAN HOIST & DERRICK CO., CRANES & SHOVELS



COOK BROS.
EQUIPMENT COMPANY
3334 San Fernando Road, Los Angeles 63
Telephone: Cleveland 6-3151

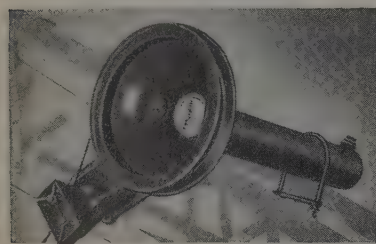
See manufacturer's listing page 19, Yellow Section

2 ways to make crane operations pay more



1 RUD-o-MATIC Combination Magnet Reel-Tagline

Rud-o-Matic Combination Magnet Reel-Tagline saves expensive electric cable wear on overhead and boom crane jobs. Tension on the steel tagline cable keeps the strain from the expensive electric magnet cable. Now standard equipment with major crane manufacturers, the Rud-o-Matic Combination Magnet Reel-Tagline is made in five models to fit your present equipment. Insure complete tagline control on your crane with Rud-o-Matic!



2 RUD-o-MATIC Tagline

Crane operations are more profitable when you install Rud-o-Matic Taglines. Heavy duty torsion coil spring keeps tension on tagline cable at all times for bucket control. Buckets are held steady at any angle of the boom. Available in 11 models for various bucket sizes and pull out requirements. Taglines delivered fully equipped with fairlead and cable attached—ready to install. Get more pay loads per day with your crane with Rud-o-Matic Tagline Control!

For full information on Rud-o-Matic Taglines, call or write—

McCAFFREY-RUDDOCK
Tagline
CORPORATION

2131 East 25th Street • Los Angeles 58, California

See listing page 41, Yellow Section

New engine by Wisconsin

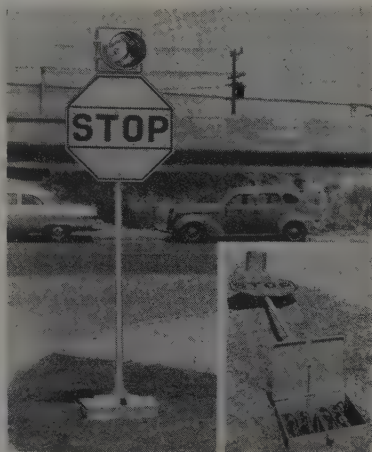
Wisconsin Motor Corp., 1910 S. 53rd St., Milwaukee 14, Wis., has introduced a new engine, the Model BKN. It is rated from 3.2 to 6.8 hp. and has a speed range of 1,600 to 3,600 rpm. Its 2 $\frac{7}{8}$ -in. bore by 2 $\frac{3}{4}$ -in. stroke provides a displacement of 17.8 cu. in. It can be equipped with various gear reductions, clutch assembly, electric starter and generator or starter only, and can be equipped to operate on kerosene, butane, propane, or natural gas although regularly supplied for operation on gasoline.

Electric asphalt melting pot

Now available is a thermostatically controlled electric melting pot for melting asphalts, tars, pitches, resins, mastics, and other viscous materials. The control allows the operator to select exactly the right temperature for the material being melted. The pot weighs 15 lb. and operates from any 115-volt outlet. The price of the unit is \$75. Glas-Col Apparatus Co., Terre Haute, Ind.

Battery operated flasher

Neo-Flasher Mfg. Co., 3210 Valhalla Drive, Burbank, Calif., has announced the introduction of a battery operated flashing light which meets I.T.E. standards. The Neo-Flasher



was designed to control traffic where high cost wiring has prevented installation of a light. The unit is constructed with a cast iron battery case. The battery case lid is hinged for easy access. Four ignition dry cell batteries will operate a flasher for approximately 1 year. It is completely weatherproof. Further information will be sent from the manufacturer.

Ransome rippers

Two new rippers, the Ransome R-78 ripper and the Ransome R-46 ripper, have been introduced by The Ransome Corp., 2729 Hunting Park Ave., Philadelphia 29, Pa. The rippers are designed to fit tractor-bull-

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.



DRAGLINE Well balanced for deep bites, easy control, and clean dumping.



LIGHTWEIGHT BUCKET for speedy stockpiling only—larger capacity gives extra payloads.

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 listing page 41, Yellow Section

WESTERN CONSTRUCTION—January 1956

See manufacturer's listing page 37, Yellow Section



Twin Disc Torque Converter on shovel increases cable life over 100%!



Records of Zontelli Brothers, of Ironton, Minn., owners of the JoAnn Iron Mine, show replacement of *seven sets* of cable on a shovel equipped with straight mechanical drive—while replacing only *three sets* on one driving through a Twin Disc Torque Converter . . . a substantial reduction in down time, *plus* increased cable life of *over 100%*.

According to Al Fox, Master Mechanic, "considering the cost of down time in replacing cables—plus the cost of cable itself and the actual labor involved in replacing them, the Twin Disc Torque Converter saves us a lot of money."

Both these Model 54-B Bucyrus-Erie 2½-yd shovels are used to load trucks with iron ore from the open pit mine, where it is then hauled to the washing and crushing plant and

processed. One shovel is powered by a diesel engine, with direct mechanical drive—and the other is equipped with a Caterpillar D337 Diesel, working through a Twin Disc Model CF Torque Converter.

In over-all comparisons, the torque converter-equipped shovel increases production, consumes less fuel, and substantially reduces maintenance costs wherever it is used.

For *automatic* matching to load demands, with torque multiplication up to *six times* . . . for cushioning out overloads, shock loads and vibrations . . . *specify* Twin Disc Torque Converters for *your* shovels. *Increase* production and cable life—*reduce* fuel and maintenance costs. *Get all the facts.* Write today to Twin Disc Clutch Company, Hydraulic Division, Rockford, Illinois. Request Torque Converter Bulletin 135-D.



This Model 54-B Bucyrus-Erie 2½-yd. shovel—powered by Caterpillar D337 Diesel Engine, driving through a Twin Disc Model CF Torque Converter—is loading ore from the JoAnn Iron Mine, owned by Zontelli Brothers, Ironton, Minn.



BRANCHES OR SALES ENGINEERING OFFICES: CLEVELAND • DALLAS • DETROIT • LOS ANGELES • NEWARK • NEW ORLEANS • TULSA

dozer blades of any make and can be used for any application. The R-46 can be adjusted to any blade from 27 in. to 38 in. in height. The Model R-78 can be adjusted for any blade from 35 in. to 48 in. in height. In addition to the adjustable ripping depths, the rippers feature a removable ripping tooth and one-man rack and pinion depth adjustment.

Self-priming centrifugal pump

A self-priming centrifugal pump has been announced by Homelite, a division of **Textron American, Inc.**, Port Chester, N. Y. The pump is designed to work efficiently at low-

noise level, slow speed operation, and yet deliver a full capacity of 9,000 gph. The pump has a guaranteed 28-ft. suction lift, and a 65-ft. total head including friction. Automatic priming at 5-ft. suction lift takes just 9 sec. The pump weighs 87 lb.

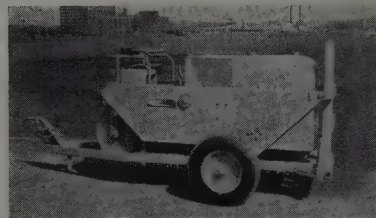
Portable rotary compressor

A new portable rotary compressor, the Blue Brute 600, has been placed on the market by the Tool Division, **Worthington Corp.**, Harrison, N. J. A clutch allows operators to warm-up the engine before cutting in the compressor. The self-draining compressor eliminates settling of oil and

moisture in any low areas of either cylinders, inter-stage chamber or discharge point.

Model 55 tandem roller

Standard Steel Works, Kansas City, Mo., has announced its Model 55 tandem roller. A feature of the machine is the even distribution of ballasting in both steel and water to



provide 1½- to 2½-ton compaction. For various weights needed from light patching to wide roll dimensions for smooth finishing, steel ballasts are removable in 70-lb. sections for a variety of compaction ranges. Automotive steering, finger tip controls, automotive type foot brake pedal, speed controller and throttle as well as water valve are handled from the driver's seat. Overall length is 103 in. Complete details and specifications are available.

Kenworth truck-tractor

Kenworth Motor Truck Corp., Seattle, Wash., has announced the manufacture of an earthmover truck-tractor with a dump semi-trailer, called the 802-B. With a capacity of 32 cu. yd. struck, the vehicle's gross



combined weight is 165,000 lb. The 802-B is powered by a 33-hp. turbo-charged Cummins diesel engine. In dumping, the entire trailer raises, and the rear trailer wheels move forward to a position directly behind the tractor tires. A special feature is the interchangeability of axle outer end parts between the truck and trailer. Parts such as wheels, rims, bearings, brake assemblies, and tires may be used either on the tractor or trailer.

Overloader angledozer

The Seaboard Equipment Co., 7 Hanover St., New York, N. Y., has announced that it has now added to the range of equipment for use with the Merton Mark V overloader with a new angledozer. The angledozer blade pivots about the frame



"Spray it and forget it"®

Distributed
in the West by

Boise, Idaho
Morrison-Merrill & Co.

Denver, Colorado
The Colorado Builders' Supply Co.

Honolulu, T. H.
Grace Brothers, Ltd.

Phoenix, Arizona
Baker-Thomas-Woolsey Wholesalers, Inc.

Portland, Oregon
P. L. Crooks & Co., Inc.

Salt Lake City, Utah
Cobusca Steel Products

San Diego, California
H. G. Fenton Material Co.

Seattle, Washington
Charles R. Watts & Co.

hunt PROCESS

concrete curing compounds

1 HUNT PROCESS CLEAR

For natural color of the concrete. A carefully proportioned blend of materials in a petroleum solvent will not permanently discolor the concrete.

2 HUNT PROCESS "TILT-UP"

For curing and bond breaking in "Tilt-Up" or precast construction. Film disintegrates and oxidizes after curing period leaving surfaces in condition for painting.

3 HUNT PROCESS BLACK

For curing and waterproofing. A blend of asphalts with pigment in a petroleum solvent.

4 HUNT PROCESS PIGMENTED—WHITE & GRAY

For temperature control in the concrete. A curing compound containing high quality pigments which give a heat reflecting film.

HUNT PROCESS CO., INC.

FACTORY AND MAIN OFFICE
7012 STANFORD AVENUE, LOS ANGELES 1, CALIFORNIA

THE ORIGINAL MEMBRANE CURE SINCE 1926

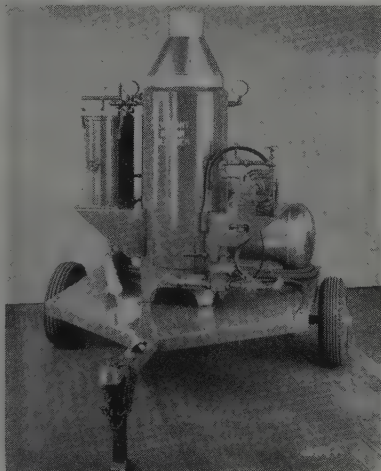
and can be angled either way by the removal feature in the design whereby the extension of either of the pusher arms, when the blade is in the angled position, is accommodated in the loader bucket. Complete information is available.

Sectional tamping pole

Lightness and flexibility have been combined in a sectional explosives tamping pole manufactured by **Ideal Explosives Supply Co.**, 95 Craggy Ave., Ashville, N. C. The 10-ft. pole sections are easily joined to form a tamping pole adaptable to any depth, eliminating the necessity for excessively long, hard-to-handle poles. It has been used successfully to depths of 120 ft. One plug of any desired size is furnished with each set of poles. The poles are available at \$6.50 per 10-ft. section.

Economy steam cleaner

A trailer model of the Economy Steam Cleaner, particularly adapted to work in the construction industry,



has been introduced. The one-control system regulates pressure and steam saturation at the same time. Designed for either butane or natural gas fuel, the cleaner preheats the water in a jacket before it enters the coil. The machine will produce 80 lb. of steam pressure in less than 2 min. from a cold start. The cleaner and tank are mounted on a trailer with cantilever springs and high speed rubber tires. **Ker-O-Kil Mfg. Co.**, 582 Market St., San Francisco 4, Calif.

Diesel fuel system tester

A new type diesel fuel system testing unit is now available to operators of GM Series 71 engines. The unit is for injector calibrating and running-in, and is the first unit of its type made available to shops that service and maintain this type engine. The unit eliminates the chance of an injector being put back into service that does not exactly equal the fuel delivery of



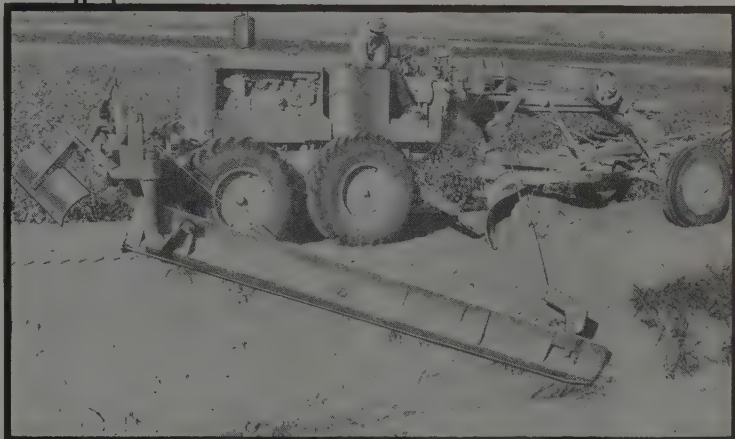
TO CUT COSTS!

Investigate

THE NEW

BRISCOE

GRADER-SLOPER



Here's the Practical Answer to Low-Cost Sloping Operations on Roads, Highways and Canals.

This new versatile attachment to the Grader cuts costs on sloping and grading operations; moving in either 2nd or 3rd gear, the BRISCOE Grader-Sloper cleans slopes quickly and effectively, bringing up spoils from as low as 6 feet. The BRISCOE Grader-Sloper leaves a clean, uniform slope, pulling all dirt and gravel up onto the roadway, while supplying loose material for finishing the top. (Also an ideal solution to the weed control problems.)

Your Motor Grader serves double duty, no need to detach the Sloper to use the Grader. Either blade may be operated independently of the other, or the two blades may be utilized together, using all 38 feet of blade, cutting and sloping . . . all in one operation.

Hydraulically controlled, the Grader-Sloper has eliminated excessive side draft and is heavily reinforced through-out for rugged use. Years of experience in manufacturing BRISCOE Slopers has verified the soundness of the BRISCOE Sloper design. This basic Sloper principle has now been adapted to the Motor Grader, and is ready to help cut your sloping and grading costs today!



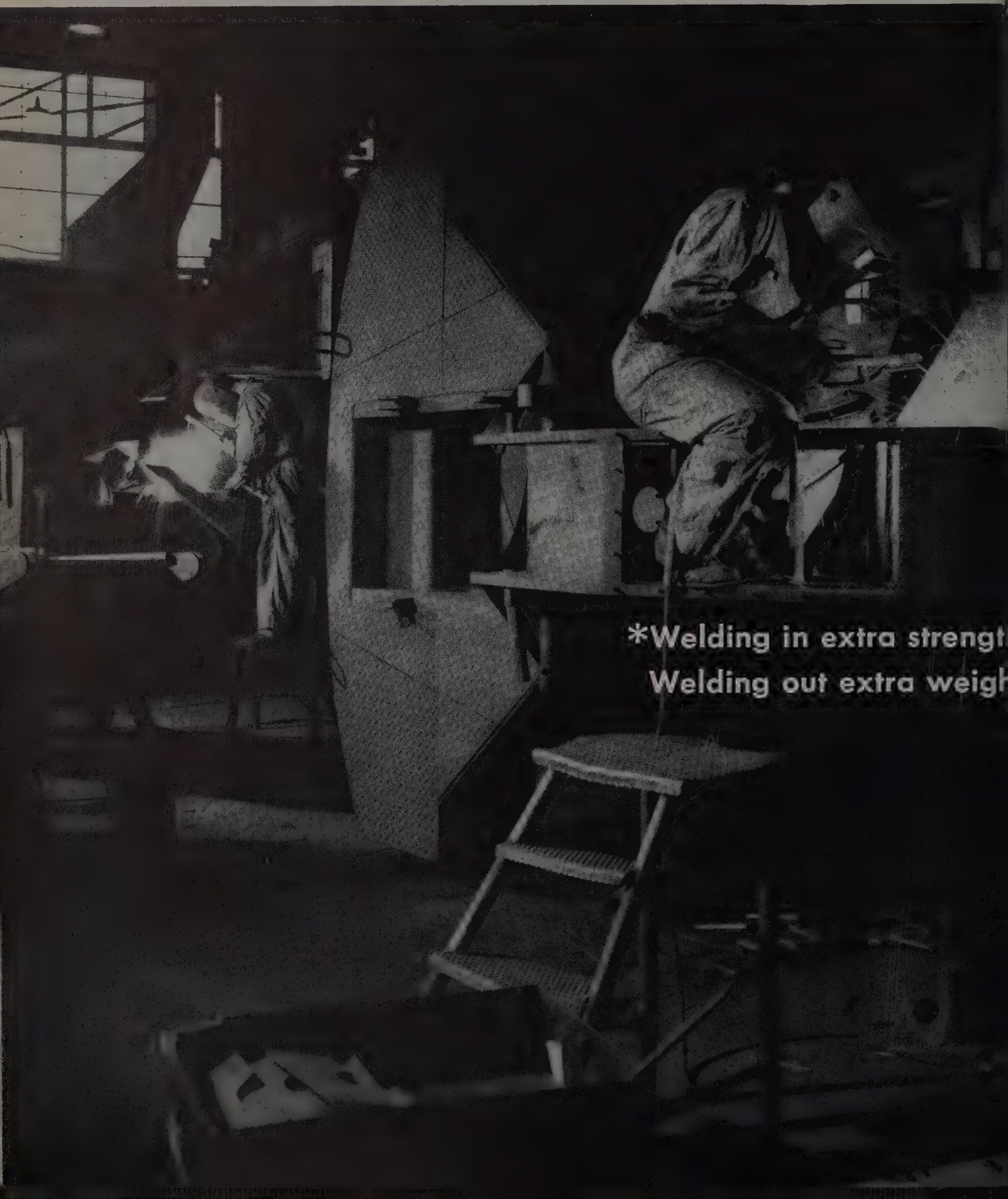
Write or wire for complete information.

BRISCOE Manufacturers

OF CALIFORNIA

4129 N. Del Norte Ave. Kerman 2, Calif. Phone 9381

what puts more guts in



*Welding in extra strength
Welding out extra weight

P&H power shovels?

*ALL-WELDED CONSTRUCTION

P&H engineers were first to discover that the way to put more guts in excavating equipment was to throw out old-fashioned methods and replace them with modern materials and processes.

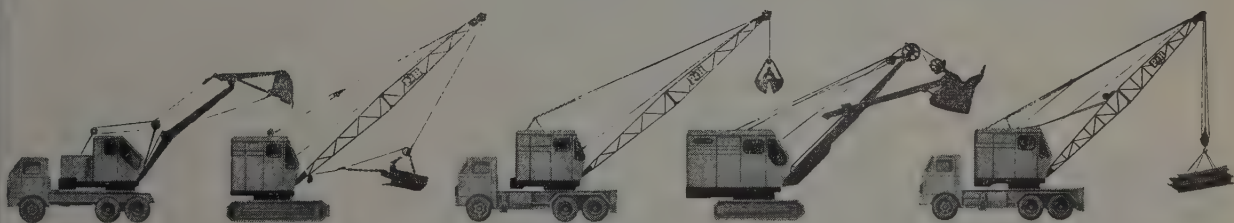
That meant welding in extra strength. Getting rid of useless weight.

Castings that added useless weight were replaced with weldments of new, high tensile steels and rolled sections. Gussets, stiffeners and reinforcing plates were added for extra strength. Welding these into one rigid unit is the way

P&H puts guts in every ounce of steel.

Years of actual service have proved the value of P&H modern engineering. Shovel users everywhere have demonstrated their acceptance by making P&H the largest manufacturer of power shovels and cranes in the business.

Your P&H dealer will be glad to point out, feature by feature, how P&H puts more guts in power cranes and shovels with all-welded construction. Also, in other ways. Harnischfeger Corporation, Milwaukee 46, Wisconsin.



For Modern Engineering, Look to

HARNISCHFEGER

POWER CRANE and SHOVEL DIVISION

the **P&H** *Line*



TRUCK CRANES



DIESEL ENGINES



POWER SHOVELS



PREFABRICATED HOMES



HOISTS



SOIL STABILIZERS



WELDING EQUIPMENT



OVERHEAD CRANES

See manufacturer's listing page 30, Yellow Section

others being put in the same engine. **Diesel Control Corp.**, 226 North Marine Ave., Wilmington, Calif.

Split flange hose fittings

A complete line of split flange hose fittings has been announced by **Aeroquip Corp.**, 300 South East Ave., Jackson, Mich. Their fittings conform with all SAE specifications and are available in all sizes from 1/2 in. through 2 in. Complete data on the new flanges are available from the manufacturer. Ask for Bulletin No. 3.

Shawnee scraper for IH 300

The Shawnee Mfg. Co., 1947 N.

Topeka Ave., Topeka, Kansas, has announced a two-wheel hydraulic scraper for use with the International Harvester 300 Utility tractor. The scraper has a capacity of 3/4 yd., and is hydraulically controlled from the driver's seat. The 66-in. wide cutting blade extends beyond the wheels and sides of the scraper enabling unlimited digging depth. The unit weighs 900 lb. and uses two 600x15 tires. Additional information is available.

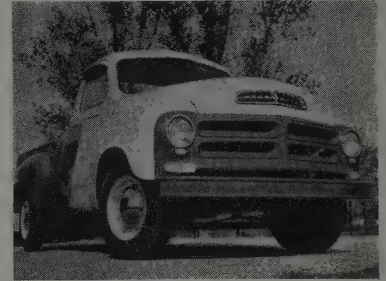
Tandem axle trailer dump

Designated Model STM (SP), a new tandem axle trailer dump for use with single axle tractors and equipped

with a self-powered hydraulic hoist has been announced by **Galion All-steel Body Co.**, Galion, Ohio. The trailer dump is fitted with a complete hydraulic system including an auxiliary engine, hydraulic pump, spool type control valve, and hydraulic oil reservoir. Any conventional tractor can be used with the self-powered trailer dump. The unit is ideal for use in shuttle operations in which the loaded trailer is dropped by the tractor and the load is dumped as required, while the tractor returns an empty trailer for reloading.

New line of Studebaker trucks

The widest clear floor space pickup body in the industry, bigger box and platform choices in the light duty line, new cab, colors, and safety equipment, and increased frame



strength are a few features of the new line of Studebaker trucks. The line ranges from 1/2-ton pickup models to 2-ton trucks. In the light duty line wheel bases of 112, 122, and 131 in. will be available with gross vehicle weight ranging from 4,800 lb. in the 1/2-ton model to 9,600 lb. in the 1-ton model. Four engines are offered, ranging from 92 hp. to 160 hp. Complete information on the new trucks is available from the **Studebaker-Packard Corp.**, South Bend, Ind.

Attachment for motor graders

The Galion Hydra-Tilt moldboard permits the grader operator to adjust the tilt of the moldboard without leaving the cab or stopping the grader. A touch of a hydraulic control lever is all that is necessary to set the moldboard pitch at any point between minimum and maximum. This attachment works equally well with regular or hydraulically shiftable moldboards. Two hydraulic cylinders are supplied, one for attachment on each side of the circle. For complete information write the **Galion Iron Works & Manufacturing Co.**, Galion, Ohio.

600-Series Rok-Bits

The addition of a 600-thread series to the carbide-insert Rok-Bit line has been announced by **Brunner & Lay**, 2425 East 37th St., Los Angeles 58, Calif. These bits fit directly on the G-D extension rods, with no need for expensive adaptors. Each bit has five air holes—center hole, two other

INDUSTRY-WIDE ACCEPTANCE

You'll agree,
old type spreaders just won't
fill the bill after you've seen

The Self-Propelled
"SPREAD-MASTER" Power Spreader
in Action



... the only modern self-propelled
chip spreader on the market!

Spread cover coat material the modern way . . . it's easier, faster, more economical and superior in results! Two-man crew can make spreading continuous operation—no drag or brooms needed . . . just one straight line of uniform application. Tighter, more uniform mat is achieved by placing larger chips in asphalt first, fines on top. When rolled, choice chips then are keyed and wedged in place.

Using the "Spread-Master," an Arizona contractor applied 205 tons liquid asphalt on road surface and covered it with 1747 tons of seal coat material in 11 1/2 hours of operating time!

FLAHERTY MFG., INC.

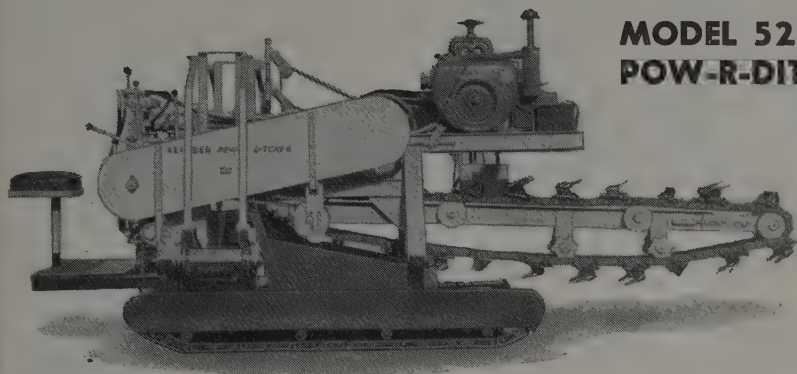
P. O. BOX 1042

POCATELLO, IDAHO

PHONE 653

VERMEER POW-R-DITCHER

BIG DITCHER PERFORMANCE AT LOWEST COST!



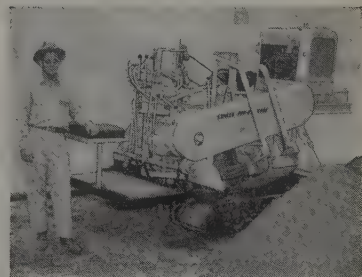
**MODEL 524-T
POW-R-DITCHER**

Here's the low cost ditcher for contractors, municipalities, utility companies, etc. This self-propelled model 524-T Pow-R-Ditcher digs 8" to 24" wide and down to 6' deep . . . at speeds of 1' to 15' per minute. Excellent for foundation footings, gas, water and sewage lines.

"60% LOWER LABOR COST WITH MY POW-R-DITCHER"

"I've used my Pow-R-Ditcher over a year for sewer connections, digging from 18" to 24" wide and using Jiffy cutters. I've found the machine very satisfactory and extremely maneuverable. In my trenching work, the Pow-R-Ditcher has helped decrease my labor cost by 60%."

A. D. Weaver, S&W SEWER CONTRACTORS, Long Beach, Calif.



"4-T POW-R-DITCHER Is Superior For Small Mains and Services"

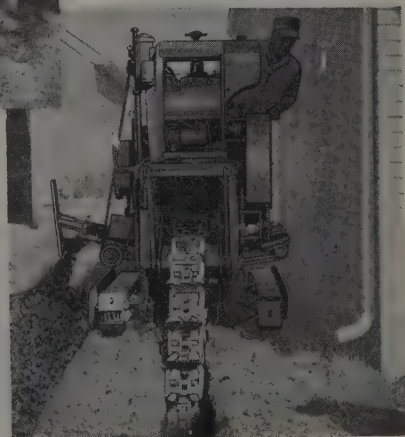
"We have used several makes of ditchers and find the Vermeer 4T POW-R-DITCHER superior for installation of small gas mains and services. We get more footage with less destruction to landscaping. Our experience in this type of work covers a 15 year period and a great variety of ground conditions."

"Bud" Somerville & Supt. Jim Godwin
Somerville Const., Ada, Mich.



MODEL 4-T POW-R-DITCHER Easily Transported In A Pickup Truck

Digs 6" to 14" wide and 4 1/2' deep. Highly maneuverable, this "Midget" Pow-R-Ditcher is only 6' high, 13' long and 42" wide.



Get the full particulars on the complete line of Vermeer Pow-R-Ditchers. They cost less and they dig for less! Write for colorful illustrated literature.

JETCO, INC.

1101 Westminster Ave.
Alhambra, California

DOMESTIC TRACTOR

6200 Folsom Blvd.
Sacramento, Calif.

PRINGLE TRACTOR CO.

110 Abbot St.
Salinas, Calif.

M. F. D., INC.

14900 E. 14th St.
San Leandro, Calif.

See manufacturer's listing page 58, Yellow Section

The Head Pulley with motor inside. Safe, compact, simple—no chains, no belts, no sprockets, no exposed motors.

Built by Yuba for sale in Arizona, California, Idaho, Montana, Nevada, New Mexico, Oregon, Texas, Utah, Washington.

Built and sold in other states by Iowa Mfg. Co., Cedar Rapids, Iowa.



IF YOU USE BELT CONVEYORS OR BUCKET ELEVATORS SAVE SPACE, CUT DOWNTIME with YUBA-SCHROCK HEAD PULLEY

All moving parts fit compactly inside pulley shell, protected against weather and dirt, thus practically eliminating pulley troubles. This pulley with motor inside requires no more

room than an idler pulley; can be installed quickly. Diameters 10½" to 56". ½ to 125 hp. for voltages to 2300. Job proved. Write TODAY for folder and name of nearest distributor.



YUBA MANUFACTURING CO.

82

Pulley and Sprocket Dept.

PHONE 628

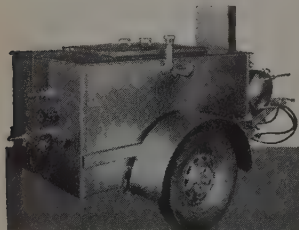
BENICIA, CALIFORNIA

See manufacturer's listing page 62, Yellow Section

White

HEATING KETTLES

FOR SAFER MELTING
OF BITUMINOUS
MATERIALS

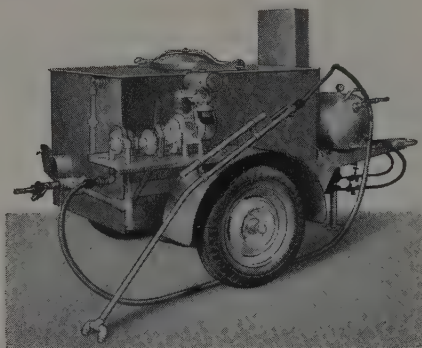


Tool Heaters

Surface Heaters

Special F-10 Compound
Kettle

Torches and Burners



Capacities from 80 to 325 gallons. All equipped with *exclusive* FIRE PROOF TOP (hinged tops available for roofing use). Operator and equipment are *protected* from flash fires. Complete line of accessories optional. Choice of kerosene and propane burners.

White

MANUFACTURING COMPANY

ELKHART 15, INDIANA

See manufacturer's listing page 60, Yellow Section

holes on the cutting face, and two side holes—to facilitate chip removal and keep the bit from working in its own cuttings.

Convertible transit-level

A redesigned optical system with a 3-ft. focus for close-quarters surveying highlights the features of a new builders' convertible transit-level introduced by C. L. Berger & Sons, Inc., 37 Williams St., Boston, Mass. An internal-focusing 10½-in. telescope with 22-power coated optics views object right side up, produces a clear, sharp image even in poor lighting over long sights as well as at close distances. Further information is available. The retail price, complete with mahogany transit case, tripod, plumb bob, sun shade, and instruction manual, is \$219, FOB factory.

Campcar for construction crews

The Morrison-International Campcar is designed to meet the needs of railroad and construction crews as living and working quarters. It can be moved to virtually any site by any type of automotive equipment. It has been designed to provide functional interiors in seven models. In addition, special models are being produced to meet the specific requirements of users. They can operate at or away from city utilities and are constructed to withstand rough off-the-highway travel. Morrison Railway Supply Corp., 813 Rand Bldg., Buffalo 3, N. Y.

Power-lift tail-gate

A power-lift tail-gate, suitable for mounting on ½-, ¾- and 1-ton trucks with service, express or pick-up bodies, has been announced by Hercules Steel Products Co., Galion, Ohio. Designated Model H-6E the new 600-lb. capacity gate is electrically powered by the truck's battery. A button switch and hand valve control the operation. The gate rolls by gravity, stopping when it reaches ground level or an obstruction. Capacities of 600, 1,100, 2,000 or 3,000 lb. are available. Further information is available from the manufacturer.

Iron powder maintenance electrode

The Lincoln Electric Co., Cleveland 17, Ohio, has introduced an iron powder type electrode especially for maintenance and repair welding. The electrode, Jet-Hard BU-90, is for fast build-up of worn parts. It produces a medium carbon, medium alloy deposit of moderately hard, tough machinable surface to resist shock and abrasion. It can be used with either D-C, electrode negative, or A-C. It is available in 5/32-in., 3/16-in. and ¼-in. sizes.

Self-adjusting air filter

A self-adjusting air filter designed for industrial use has been announced



**As easy to move as
an electric hand saw!**

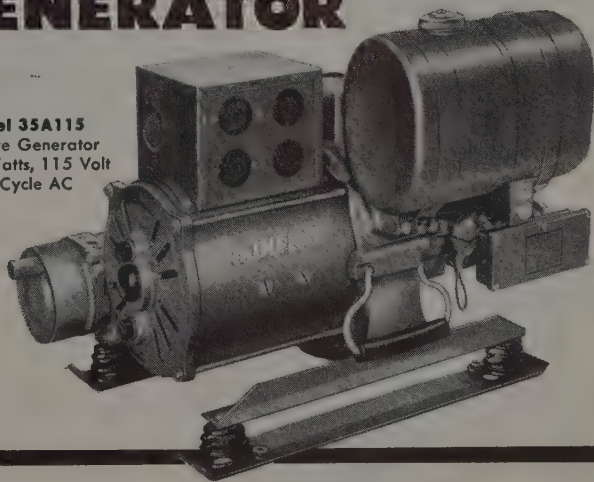
- 1. New Money-Saving features** . . . No DC brushes; just two easy-to-get-at collector ring brushes . . . No commutator or DC windings . . . No intermediate couplings; armature keys directly to shaft. Fewer parts to wear out — longer trouble-free generator service.
- 2. Constant Voltage** . . . less than 4% change from no load to full 1500 watt capacity . . . assures long service life for your electric tools . . . guarantees top performance at all times.
- 3. Overload Capacity** . . . 1500 watt continuous duty with generous overload capacity prevents tool stalling under heavy loads . . . insures uninterrupted service even when starting loads exceed operating loads.
- 4. Compact and Lightweight** . . . one man can easily carry this generator wherever you need electricity to power time-saving elec-

ALL NEW DESIGN!

Simple... Foolproof... Low Cost

1500 WATT HOMELITE GENERATOR

Model 35A115
Homelite Generator
1500 Watts, 115 Volt
60 Cycle AC



tric tools. No need for long, hazardous power-consuming cables.

Whatever tools you want to operate — electric saws, drills, floodlights, grinders, belt sanders, hammers, — the new Homelite 35A115 generator can save you money. For a free demonstration or additional information, call your nearest Homelite representative, or write:

SAVE EVEN MORE! New Homelite electronic idle control unit, available as optional accessory, runs engine at idle speed when no current is drawn . . . automatically brings engine to full speed when load is

applied.

Ask your Homelite representative to show you how this easily-installed accessory reduces engine wear . . . increases service life . . . cuts fuel consumption.

HOMELITE

A DIVISION OF TEXTRON AMERICAN, INC.
1301 RIVERDALE AVE., PORT CHESTER, N. Y.

Manufacturers of Carryable PUMPS • GENERATORS • BLOWERS • CHAIN SAWS

Homelite Factory Branches:

CALIFORNIA — Fresno, Los Angeles, Sacramento,
San Francisco • OREGON — Portland, Prineville
UTAH — North Salt Lake
WASHINGTON — Seattle, Spokane

See manufacturer's listing page 32, Yellow Section

by **EMCO Pneumatic Corp.**, 1317-1319 Locust St., Des Moines, Iowa. The unit weighs 12 oz. The major parts are made of aluminum instead of brass and require no manual adjustment. The cleaner eliminates sludge, abrasive substances, rust, scale, and moisture from entering air operated tools. It has a range from 1 cu. ft. per min. to 20 cu. ft. per min. with an operating range from 60 lb. to 250-lb. air pressure. The filter sells for \$16.50 FOB factory.

50-ton compactors

The roller division of the **Tampo Mfg. Co.**, San Antonio, Texas, has announced two new models of 50-ton



rubber tired compactors. The Model 50, with an overall length of 20 ft. is designed to be pulled by crawler tractors. The Model 56 is designed for rubber tired prime movers. It puts 6 tons of dead weight over the drive axle of the tractor.

Trailers and trailer dumps

A new series of single and tandem axle trailer dumps and 4-wheel trailers, with payload capacities of up to

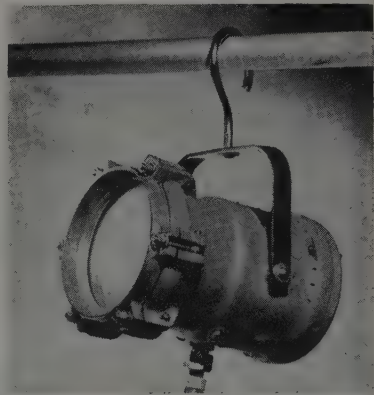


30 cu. yd., has been announced by **Hercules Steel Products Co.**, Galion, Ohio. Equipped with front-mounted single cylinder telescopic hoists, the new units are designed for over-the-road hauling of aggregates and other bulk materials. Front mounting of the hoist shifts weight forward onto the tractor axles and substantially improves tractor-trailer load distribution. Lifting capacities of up to 35 tons are provided by a single 5-

sleeve, 8-in. telescopic hoist, front mounted on 17- to 24-ft. single and tandem trailer dumps.

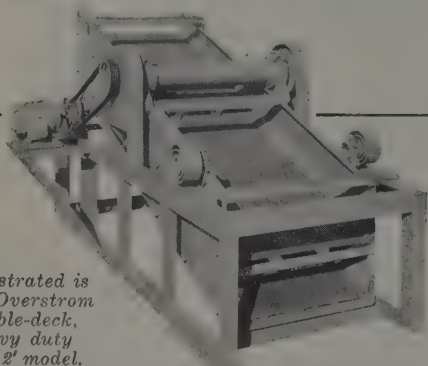
Explosion-proof floodlight

An explosion proof floodlight powered by compressed air turbo-generators and cooled by exhaust air has been introduced by **Copco Eastern Ltd.**, 930 Brittan, San Carlos, Calif. The 22-lb. semi-portable lamp draws



23 cu. ft. of air per min. at pressures ranging from 60 to 100 psi. A filtering device prevents foreign matter from entering the turbo-generator through its 1/2-in. air supply coupling. An automatic turbine cut-off ensures full safety in the event the blast-proof lens is shattered by external impact.

(Continued on page 169)



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.

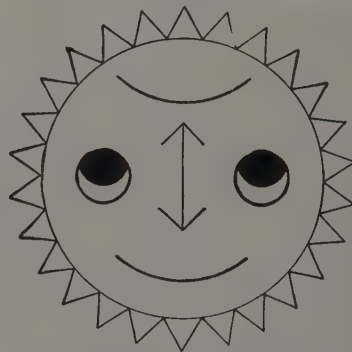
Overstrom Screens can also be designed and engineered to meet your individual requirements. For detailed information, write:

Overstrom & Sons

2213 West Mission Road • Alhambra, California

See manufacturer's listing page 45, Yellow Section

The tragic fact, our doctors tell us, is that every third cancer death is a needless death... twice as many could be saved.



LET'S LOOK AT THE BRIGHTER SIDE

Many thousands of Americans are cured of cancer every year. More and more people are going to their doctors *in time*... To learn how to head off cancer, call the American Cancer Society or write to "Cancer" in care of your local Post Office.

American Cancer Society



NEW EQUIPMENT

(Continued from page 164)

Twin-pin connecting link

Now available is a twin-pin connecting link for fast chain repairs. It takes only a hammer and 5 min. to make a chain repair on the job.



This repair unit can also be used for joining a load line to the hitch plate extension and, in larger buckets, as a connection to the trunnion link. The units which can be used over and over again are available in a complete range of sizes from 1 to 3 in. **Page Engineering Co.**, Clearing PO, Chicago 38, Ill. Ask for Catalog CSL-754.

Largest Hyster lift truck

Availability of a lift truck of 20,000-lb. capacity at 24-in. load centers has been announced by **Hyster Co.**, 2902 N. E. Clackamas St., Portland



8, Ore. The machine is gasoline powered. A diesel engine is optional. The travel speed is 20 mph. in either forward or reverse. Braking is provided through vacuum-powered brakes, and the turning radius is 179 in. Complete specifications are contained in Specification Sheet No. 1417.

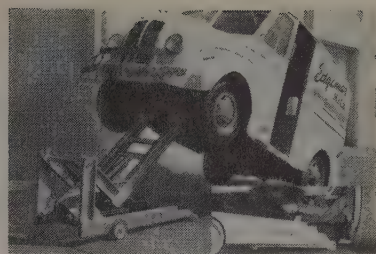
Muffler curbs hydrocarbons

A new muffler for automotive engines which eliminates more than 95% of the hydrocarbons passed into the atmosphere from unburned and partially burned fuel has been developed by **Clayton Mfg. Co.** of El

Monte, Calif. First of the new units to be placed in the market will be for gasoline driven, heavy duty, truck and bus engines in the range of 550- to 750-cu. in. piston displacement. Because the muffler contains no catalyst or other substance which would deteriorate in service, maintenance is reduced to a minimum. Further information is available.

Truck lift has cutaway frame

All new Lee truck lifts manufactured by **Automotive Equipment Mfg. Co.**, Lynwood, Calif., are now constructed with a specially designed cutaway frame to facilitate the lifting



of trucks with restricted front axle clearance. Capacity is 5,500 lb. and lifting height is 50 in. maximum. Write to the manufacturer at 11000 So. Alameda, Lynwood, Calif.



EAGLE PORTABLE CRUSHING PLANT DELIVERS 100-125 YDS. PER HOUR

Compare that output with ANY portable plant of comparable size and cost! Key unit is 18x36 roller bearing Eagle Jaw Crusher. It and the several other motors (more individual control of unit) are powered by a motor generator set or power line. Plan on one of these units to increase your profits in 1956!

Get more information and engineering help
through nearest distributor:

- **J. D. Coggins Co.**
P. O. Box 467
Albuquerque, New Mexico
- **Contractors Equipment Company**
2727 N. E. Union Street
Portland, Oregon
- **Diesel Construction Equipment Co., Inc.**
5050 Market Street
San Diego 2, California
- **Hatten Machinery Company**
3433 Fourth Avenue South
Seattle 4, Washington
- **Standard Auto Body Company**
4900 So. Soto Street
Los Angeles, California
- **Williamson Inc.**
P. O. Box 2076
Salt Lake City, Utah
- **Work Hoist & Body Corp.**
2817 Seventh Street
Berkeley 10, California

EAGLE
JAW CRUSHERS • IMPACT BREAKERS
PULVERIZERS • CONVEYORS • LOADERS **CRUSHER CO., Inc.** GALION OHIO U.S.A.

See manufacturer's listing page 23, Yellow Section

News of DISTRIBUTORS

Arizona firm adds line

Western Machinery Co., Phoenix, Ariz., has added to its lines the Flaherty Manufacturing Co., of Pocatello, Idaho.

Changes in Alaska personnel

Machinery Division of Northern Commercial Co. announces two changes in the management personnel of the company's machinery stores in Alaska. Gragg Gilkey, manager of the machinery branch in Fairbanks, has been transferred to Anchorage in the same capacity. Succeeding Gilkey at Fairbanks is Howard Blefgen, who has been assistant manager.

Min-A-Con sales engineer

The appointment of George P. Oakes as sales engineer for Min-A-Con Equipment Co., Phoenix, Ariz., was recently announced. In his new capacity, Oakes will do much traveling throughout the state in connection with distribution of the lines handled by this equipment company.

Distributor for Boise area

Stow Manufacturing Co. recently appointed the Starline Equipment Co. of Boise, Idaho, as distributor in this area for its complete line of concrete vibrators, portable concrete grinders, vibrating screeds and the new Roto-Trowel.

New man; new line

Walter E. Keller has joined Essick Equipment Co., Los Angeles, Calif., as manager of the heavy machinery division. The company recently added the Scoopmobile and Mixermobile to its lines.

John Newsome joins Aikins

John Newsome joined Aikins Tractor Co. at Eureka, Calif., recently as used equipment manager. He has had a broad experience in organization, financial analysis and sales planning, including three years with an Allis-Chalmers dealer in the East.

Rasmussen addition

Robert Whittenburg, formerly with Wheeler-Kershaw Co., is now with Rasmussen Equipment & Supply Co., Salt Lake City, Utah, as office manager.

Western Equipment sales and service

Western Equipment Co., Boise, has a new service available in eastern

Idaho. Joseph Eastvold, who has been representing this equipment firm at Boise in the service department, has moved to Pocatello where he is serving the eastern Idaho area. Western Equipment Co. is now representative in the entire state of Idaho south of the Salmon River at Riggins for the LeTourneau-Westinghouse account.

Bob Hansen new sales mgr.

Appointment of Robert Hansen as sales manager of the new Mining & Milling Equipment Division of Western Machinery Co. in Salt Lake City is announced. Hansen was previously assigned to the Midwest territory where he sold WEMCO products and the company's engineering-construction services for many years.

TRAINING COURSES covering maintenance and servicing of Euclid equipment are to be conducted at the General Motors Training Center in Denver, Colo., from Jan. 16 through April 13. These classes, of one and two weeks duration, are open to all owner and dealer service personnel in the area. Information and enrollment applications are available from Euclid dealers or the Service Training Department, Euclid Division of General Motors Corp., Cleveland 17, Ohio.

Hudson Corp. adds four lines

Hudson Corporation, San Diego, Calif., has taken on four new lines: Modern power sweepers, Ferguson tractors, Homelite Corporation products, and Worthington Corporation's tools and equipment.

Air-Mac takes on new line

Air-Mac, Seattle, Wash., is now handling Martin Decker scales for fork lift trucks, cranes, and for various other equipment items.

N. W. Terratrak distributor

Pacific Hoist & Derrick Co. of Seattle, Wash., announces the acquisition of Terratrak manufactured by American Tractor Co.

Lehmkuhl news

John K. Shoemake, with a number of years of broad experience in the construction and industrial equipment field, recently joined M. C.

Lehmkuhl Co., in San Francisco. In addition to its other lines Lehmkuhl has signed up with Clark Bros. Co. (Division of Dresser Operations) as industrial sales representative in this area.

McCoy Company expansion

Three recent additions to the sales personnel of the McCoy Company of Denver, Colo., are: Earl Bonham, covering the counties of Logan, Sedgwick, Phillips, Morgan, Yuma, Washington, Kit Carson, Cheyenne; Jack Yohley, covering Archuleta, Mineral, Saguache, Alamosa, Rio Grande, Conejos, Costilla, Huerfano, Custer, Chaffee, and Fremont counties; and Vic Thomas, sales trainee. The Bros line of construction equipment in this territory is now handled by McCoy. This distributor will soon be moving into a new branch at Pueblo, Colo. Now in the last stage of construction is a 12,000-sq. ft. plant to house a complete service shop, parts department, sales offices, and show room.

Bob McKeen joins distributor

Robert McKeen, former Cal basketball star, has joined Watson & Meehan, San Francisco distributor, as advertising manager.

News of Cramer Machinery Co.

Under George W. Schriver, Cramer Machinery Co.'s new president, C. J. Guthrie serves as sales manager, with Jack Hyde and Lee Shannon as salesmen. This Portland, Ore., firm has recently taken on three new lines: Willard Concrete Machinery Sales Co., truck mixers; Essick Manufacturing Co., Essick mixer, and Kerrick steam cleaners and winches.

Dealer adds to staff; accounts

Balzer Machinery Co., Portland, announces the appointment of Dell K. Foster, who will call on building contractors and represent Balzer in the Oregon counties of Multnomah and Clackamas. Also, the appointment of Tom W. Moore, who has been assigned the area of northeastern Oregon and counties bordering the Columbia River. Balzer now represents the Le Roi and Cleveland divisions, Westinghouse Air Brake Co., as well as the Essick Manufacturing Co., and other accounts.

New No. California representative

White Manufacturing Co. is now represented in Northern California by Bay Equipment Co., 3254 East Shore Highway, Richmond, Calif. Bay Equipment carries stocks of White vibrators, trowelers, torches, and parts, and also is in position to handle the sale of White bituminous heating equipment such as kettles, and this manufacturer's complete asphalt plants.

New Char-Lynn distributor

Fornaciari Company, Los Angeles equipment firm, has been appointed industrial and construction distributor for the complete line of low pressure hydraulic controls including cylinders, valves, hand and power driven hydraulic pumps manufactured by the Char-Lynn Company of Minneapolis, Minn.

Change in ownership

Myron Swendsen, president of Engineering Sales Service, Inc., Boise, Idaho, announces sale of his interests in this company, to devote his time and ability to other business lines with which he is currently associated. This change places Harry W. Hurd in the position of president of the organization while continuing as sales manager. Associated with him in the change of ownership, Eugene W. Shellworth will serve as vice president. Dick Farnsworth retains his duties as secretary-treasurer and in the sales division.

MANUFACTURERS

Assignments to West Coast

Chicago Bridge & Iron Co. announces the transfer of Robert S. Chamberlin from the general sales office in Chicago to the San Francisco sales office, and the transfer to the Los Angeles sales office of Arthur G. Albertson.

Administrative changes

William F. Funk, former president of LaCrosse Trailer Corp., LaCrosse, Wis., announces his semi-retirement, after 64 years of association with the business, which was founded 90 years ago by his father. Newly appointed LaCrosse officers include Francis J. Duffy, president (active with the company since 1929); David F. Hyde, vice president; Robert J. Funke, secretary-treasurer. William Funk will continue as chairman of the board.

Dorr-Oliver promotions

Dorr-Oliver Incorporated announces the promotion of Carlton W. Crumb to the new post of director of technical data, and Charles M. Comstock to the position of advertising manager. A veteran of 28 years service with the present Dorr-Oliver organization, Crumb was formerly sales promotion manager, while Comstock served as assistant sales promotion manager.

New engineering head

Appointed to head the engineering department of American Tractor Corp., Churubusco (Ft. Wayne), Ind., is Theodore A. Haller. Starting as a graduate student engineer with Allis-Chalmers Manufacturing Co. 23

years ago, Haller rose through various engineering posts to that of chief development engineer of A-C. In accepting his new position, Haller said he was impressed by the revolutionary developments incorporated in American Tractor's 1956 line of TerraTrac crawler tractors and equipment now being introduced.

Hyster appointments

Three key personnel appointments by the Hyster Company were recently announced. Daniel J. Sheehan, with the company since 1946 at the

Danville, Ill., plant, has been appointed general parts and service manager with headquarters in Portland, Ore. James L. Woodley, at the Portland plant for the past two years and with Hyster since 1945, has been made manager of the manufacturing plant at Danville. Harold R. Lucas has been promoted to manager of a new merchandise division of the general sales department in Portland.

Gates & Sons 1st national sales meet

Gates & Sons, Inc., originator of the widely-used Gates forming sys-

Mixing ZERO SLUMP Concrete is "Duck Soup" with this WISCONSIN-POWERED



Truck Mixer

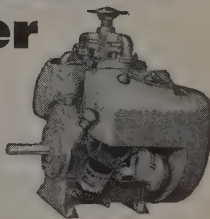
Mixing low slump concrete in zero weather is the toughest job you can give a concrete mixer. The concrete resists flow, doesn't slide down the discharge blades readily and puts a terrific load on both the mixer and its power unit. But it's all in a day's work for this 3½-yard, open-end, close-coupled Smith Truck Mixer. It handles the stiffest and stickiest concrete with ease and efficiency in any weather . . . and the Wisconsin Model VF4D Heavy-Duty Air-Cooled Engine supplies adequate power even with a 5-yard load and 0 Slump, according to The T. L. Smith Co., Milwaukee, Wisconsin.

The Wisconsin VF4D Air-Cooled Engine, delivering 25 hp. at 2400 rpm., has the built-in Lugging Power that keeps the job moving through the shock-load pinches without stalling. Heavy-duty features include tapered roller bearings at BOTH ends of the crankshaft, Stellite exhaust valves and valve seat inserts, positive type valve rotators . . . for long engine life and minimum maintenance . . . plus foolproof AIR-COOLING from sub-zero to 140° F.

YOU can't do better than to specify "Wisconsin Power" for your equipment.



WISCONSIN MOTOR CORPORATION
World's Largest Builders of Heavy-Duty Air-Cooled Engines
MILWAUKEE 46, WISCONSIN



This is the Model VF4D Heavy-Duty Air-Cooled Engine that supplies dependable, all-weather power for the 3½-yard Smith Deluxe Truck Mixer.

See manufacturer's listing page 61, Yellow Section

A 8505-1/2-I

tems and manufacturer of concrete form ties and accessories, recently was host to its distributors at its first 3-day national sales meeting at Denver, Colo., at which expansion plans for sales and advertising in 1956 of new products and their use in the building industry were discussed.

Eagle Crusher Co. progress

Ralph A. White, new general manager of Eagle Crusher Co., Galion, Ohio, recently reported greatly expanded sales interest in its line of truck mounted loaders, jaw crushers, and hammermills. The company is currently developing the portable crushing plant phase of its activities.

G. E. Burks named Cat v.p.

The election of G. E. Burks as a vice president of Caterpillar Tractor Co. was recently announced. Located at Peoria, Burks will continue to give administrative direction to growing program of Caterpillar's research department and the engineering departments at four plants.

Permanente elevates four

Four new vice presidents for Permanente Cement Co., Oakland, Calif., were recently appointed: James K. Beatty, formerly general sales manager, was made vice president in charge of sales, cement division; Paul E. Rogers, formerly controller,

is vice president-controller; John M. Garoutte, formerly works manager at the Permanente plant, was advanced to vice president in charge of operations, cement division; Peter S. Hass, formerly assistant to vice president and general manager, was appointed vice president and assistant general manager, cement division.

Caterpillar appointment

Dale Wright has been appointed chief metallurgist at Caterpillar Tractor Co., Peoria, Ill., following the retirement of Glen C. Riegel.

Link-Belt names asst. sales mgr.

Appointment of N. V. "Norb" Chehak as assistant sales manager



N. V. Chehak

of Link-Belt Speeder Corp. is announced. In his new duties at the factory in Cedar Rapids, Iowa, Chehak will aid G. W. Rowand, sales manager, in marketing the company's

complete line of crawler and rubber-tired shovel cranes, 1/2- to 3-yd., 10- to 60-ton capacities.

Gordon Ley named district rep

Gordon Ley has been appointed district representative serving the Colorado area, according to announcement by Electric Steel Foundry Co., Portland, Ore. Ley's appointment is necessitated by expanded sales of ESCO products in the Utah-Colorado area since establishment of the Salt Lake branch under the management of Garland Allen in 1952. Allen will now devote his full time to the Utah and southern Idaho section.

Lincoln names district manager

The Lincoln Electric Co. announces the opening of a new branch office and warehouse in Denver, Colo., at 1224 Walnut St. District manager for the Denver area is Merrill F. Yale who has been a sales engineer in the San Francisco office since 1949. He is assisted by "Scotty" Lambrecht.

Changes in top Kaiser personnel

Jack J. Carlson has been appointed a vice president of Kaiser Steel Corp., and general manager of the Montebello, Calif., fabricating division plant. B. J. "Barney" Osborne, pres-

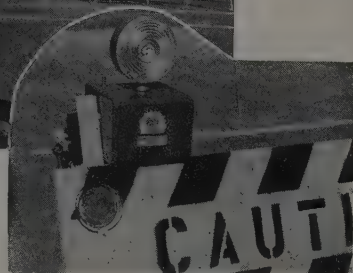
FLASH-R-LITE

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

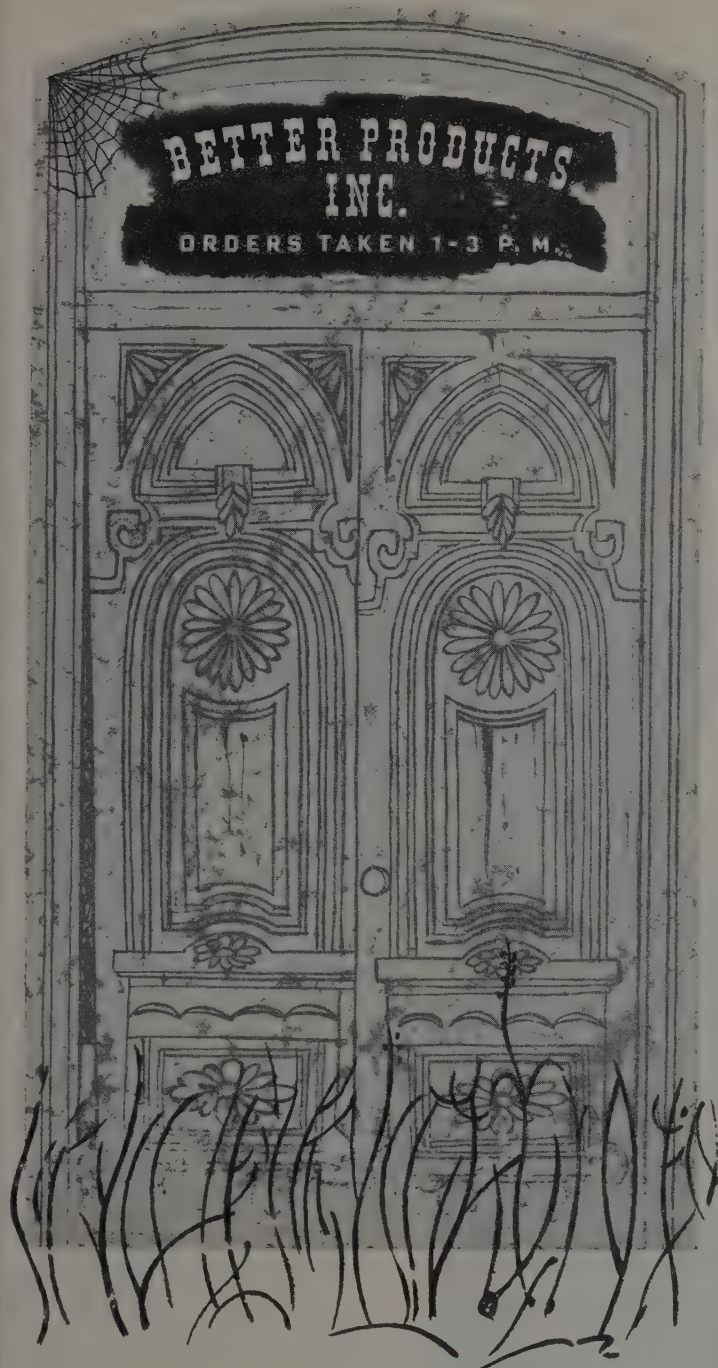
San Jose

Fresno

Santa Barbara

Honolulu

See manufacturer's listing page 25, Yellow Section



Advertising Recognition Week February 19-25

what happened to the world?

What went wrong? Had a fine new product. Just what the world needed. Now sit back and watch the world beat a path to the door.

But it never did. Truth is, the world never heard of the outfit. Or its fine new product. Couldn't have cared less.

Advertising would have made the difference in this case. (Although it doesn't help a product that isn't basically sound.) Advertising spreads the word to the trade and public. Lets them know who you are. What you're offering. What it will do. What it costs.

Advertising whets interest and opens doors for salesmen. It creates demand.

And it does more. For when it helps you sell, it helps you provide jobs. And when it creates mass markets, it helps you bring down prices. It raises everybody's standard of living, which in turn, creates more buying power. It's a victorious circle.

As a businessman, you already know advertising helps you sell. But you're a consumer, too. And —

ADVERTISING HELPS YOU LIVE BETTER FOR LESS!

WHEN THE MAN SAYS

NO BLASTING

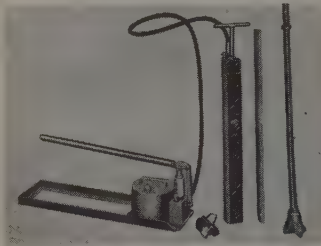
Use a

DUNCAN

hydraulic

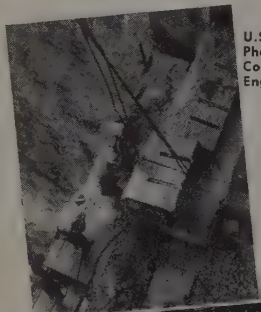
ROC - JAK*!

for heavy CONCRETE demolition



The DUNCAN ROC-JAK*

performs a quick economical job in the demolition of mass concrete or exposed face ledge rock where the use of explosives or ball drop is prohibited or impractical. The DUNCAN ROC-JAK . . . rugged and of simple operation will function in any position. Noiseless, dustless and safe.



U.S. Army
Photo . . .
Corps of
Engineers

TEN-
TON
ROC-JAK
'BITES'

*ROC-JAK Registered
U.S. Patent Office

Write for complete information and price.

K. O. DUNCAN COMPANY
10713 W. Pico Blvd.
Los Angeles 64, California

ent general manager of the plant, will move to the Oakland home offices of the company as assistant to the vice president and general manager for consultation in connection with fabricating operations.

Werthington promotions

John B. Laramy is appointed assistant general sales manager of Werthington Corporation. Announcement is also made of the appointment of Alvin F. Welsh as manager of marketing research.

Thor buys rubber firm

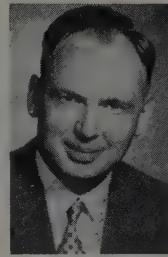
Thor Power Tool Co., Aurora, Ill., manufacturer of portable air and electric power tools, has acquired the assets of the Cincinnati Rubber Manufacturing Co., Cincinnati, Ohio. This company manufactures transmission and conveyor belting, hose, rubber roll covers, packings, gaskets, tubing, and associated mechanical rubber products.

Rockwell to build new plant in Calif.

Rockwell Manufacturing Co. will soon begin construction of a 100,000-sq. ft. warehouse, assembly, and repair plant at Porterville, Calif., their second in California. According to W. F. Rockwell, Jr., president, the new \$1,000,000 facility is expected to be completed early in 1956.

Robert Hunter made sales manager

Announcement is made of the appointment of Robert E. Hunter as general sales manager of the Detroit



**Robert E.
Hunter**

Diesel Engine Division of General Motors. Until this appointment, Hunter has been director of sales of General Motors Diesel Limited of Canada. He replaces E. F. Bentley, who is going on special leave of absence.

Gar Wood promotes Zahniser

Gar Wood Industries, Inc., Wayne, Mich., announces the appointment of Ralph W. Zahniser as manager of sales promotion and advertising. Zahniser has been with Gar Wood since 1951 and has served in several capacities in sales promotion and advertising. Prior to that he was associated with Ford Motor Co. and State Equipment Co.

Changes in key personnel

A. W. "Art" Belcher, formerly in charge of the Seattle office of Twin Disc Clutch Co., has been appointed district representative in charge of all West Coast sales and service operations, transferring his headquarters to Los Angeles. A. E. "Duke" Young, formerly district manager in charge of the Seattle office, will continue to maintain his residence there, and will act in a consulting capacity for Twin Disc. Pierce Tyrrell, formerly district manager at Los Angeles, has transferred to Rockford, Ill., where he will be in charge of rubber tired vehicles.

Britton made mgr. of distributor sales

Appointment of G. O. Britton to the position of manager of distributor sales is announced by American Hoist & Derrick Co. Britton has a broad background in construction and allied fields, having at one time been general sales manager of Shield Bantam Co. and having served as domestic sales manager of Athey Products Co.

New advertising promotion mgr.

Paul E. Finical has been appointed as Barnes Manufacturing Co.'s new advertising and sales promotion manager, making his headquarters at the home office in Mansfield, Ohio.

New Western plant

Ohio Chemical Pacific Co., Division of Air Reduction Co., Inc., announces plans for the building of a

(Continued on page 176)

**SAVE
MONEY**
when pouring concrete
**RENT
ECONOMY**
STEEL FORMS

•
Easily and
quickly assembled
•
Complete supervisory service
•
Adaptable to wide use
•
Save time and material
•
Other forms available
on a purchase basis

Write for catalog to
ECONOMY FORMS CORP.
HOME OFFICE • DES MOINES, IOWA

DISTRICT SALES OFFICES: St. Louis, Mo. • Kansas City, Mo. • Lincoln, Neb. • Minneapolis, Minn. • Ft. Wayne, Ind. • Milwaukee, Wisc. • Cincinnati, Ohio • Cleveland, Ohio • Metuchen, N. J. • Rochester, N. Y. • Springfield, Mass. • Washington, D. C. • Decatur, Ga. • Dallas, Texas • Los Angeles, Calif. • Oakland, Calif. • Denver, Colo.

SUPERVISING . . .

(Continued from page 130)

Hunter Stratton, superintendent for Martin Construction Co., is on a grading, surfacing, and 3-span overpass contract located on the Tucson-Benson highway. Other key men on this \$547,000 Arizona State Highway job are foremen: "Bud" White,

crete paving, and **Otis Lustre**, plant foreman. A 190-day job, work has been under way since Nov. 14.

* * *

William O. Murphy acted as general superintendent on a recent award to Murphy Brothers, Inc., covering 5 mi. of grading and surfacing on Coulee Dam-Belvedere highway in Okanogan County, Wash. The project, costing \$487,260, was superintended by **Ted A. Carl**.

* * *

Robert Phillips, superintendent; **Sid Hendricks**, grade foreman; **Paul Garner**, bituminous foreman, and **W. J. Parson**, purchasing agent, comprise the key personnel on grading and surfacing 2.1 mi. of highway near Salt Lake City, Utah. Work is being done by Jack B. Parson Construction Co. and involves 900,000 cu. yd. of excavation, 110,000 tons gravel, 40,000 tons plant-mix; 6,000 ft. of

pipe. Parson started work Nov. 7 with the following equipment on the job, and expects to have the project complete in 300 work days: D9 Cat with Ateco ripper; 8 DW20 scrapers; 2 TD24s; several D8s; 12 motor patrols; Universal gravel plant, 4000 Standard hot plant; Blaw Knox lay-down machine; L195 International and R162 trucks.

* * *

Fred Michel, superintendent, has the help of **Burt Brewer**, carpenter foreman, and **Axel Malmstrom**, labor foreman, in the construction of a railroad overcrossing in Auburn, Wash. A \$397,630 job on which Anderson Bridge Construction Co. has been working since Oct. 21, structure is 1,150 ft. long, box girder type with one single 5-ft. diameter column on each footing, with cast-in-place concrete piles. Duration of job is 360 days.



Stratton White Nelson

grade; **Bill Briggs**, carpenter; **Earl Nelson**, labor; **Paul Crumbacher**, master mechanic. Job started Aug. 1 and is set for completion next April.

Others in the crafts are **Bill Crooke**, **Shannon**, **Dunn**, and **Hawkins**, and operators: **Burnside**, **Schwarz**, **Cloutier**, **Roe**, **Christy** and **Mireles**.

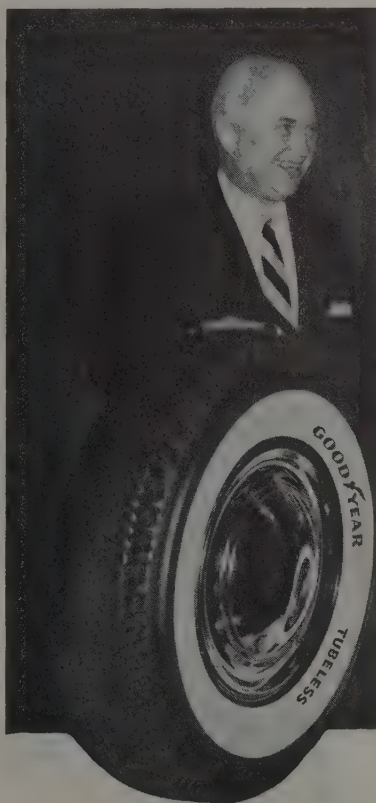
In the engineering end, the chief personnel are: **J. H. Turley**, project supervisor; **Bill White**, concrete inspector; **Virgil Johnson**, head chainman; **Ray Parkes**, scaleman, and **Art Poor**, transitman.

* * *

Ward A. Seeley, who has been superintendent for Wiscombe Painting Co. at Chief Joseph powerhouse and intake structure, has been advanced to general field superintendent for the firm. **Richard P. Weber** is superintendent for Wiscombe on subcontract at The Dalles spillway, powerhouse, and navigation locks. He was recently transferred from Palisades Dam in Idaho where **Roy C. Wiscombe** took his place. On Wiscombe's subcontract for painting of penstocks and surge tanks at Garrison Dam, No. Dak., **Richard Barndt** is bossing the job.

* * *

Milton Gracia, project manager, and **M. V. Woods**, superintendent, head the field force of Madonna Construction Co. on a \$1,663,629 award for 11.3 mi. of grading, surfacing, and a concrete undercrossing. Other key personnel on the job, which lies between Los Alamos and Santa Maria, Calif., are **Berniece Swader**, office manager; **George Voight**, superintendent; **"Bobby" Canel**, field mechanic; **Dan Borradorri**, master mechanic; **Leslie Johnson**, superintendent on concrete structures; **Jess Dulgadillo**, superintendent on con-

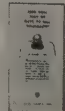


NATIONAL BUSINESS PUBLICATIONS, INC., 1001 Fifteenth Street, N. W., Washington 5, D. C. • Sterling 3-7535

The national association of publishers of 171 technical, professional, scientific, industrial, merchandising and marketing magazines, having a combined circulation of 4,022,707 . . . audited by either the Audit Bureau of Circulations or Business Publications Audit of Circulation, Inc. . . . serving and promoting the Business Press of America . . . bringing thousands of pages of specialized know-how and advertising to the men

who make decisions in the businesses, industries, sciences and professions . . . pin-pointing the market of your choice.

Write for list of NBP publications and the latest "Here's How" booklet, "How Well Will We Have to Sell Tomorrow?", by Ralston B. Reid, Advertising & Sales Promotion Manager, Apparatus Sales Division, General Electric Company, Schenectady, N. Y.



"We depend on Business Publications for vital news of a dozen industries..."

says

E. J. Thomas, President

Goodyear Tire & Rubber Company, Inc.

"Alert reporting and expert interpretation of engineering and business news," Mr. Thomas adds, "make a variety of business periodicals 'must' reading for Goodyear executives."

Where editorial pages are "must" reading, advertising pages are studied, too. When the news and the articles of a magazine are essential and helpful to a reader, the facts and figures in the advertising pages impress him deeply.

Business publications provide a direct sales route for any product or service of benefit to business or professional men.

"SOLVED OUR PROBLEM"

WITH THE EXACT PILING
THE JOB NEEDED



FOSTER RENTAL PILING SERVICE

Delivered the exact lengths of MP116 piling needed to prevent any danger of losing a dam through river floods or cave-ins on this cofferdam job. An efficient delivery assured contractors Brown & Root an uninterrupted work schedule.

Cofferdam construction for AUSTIN, TEXAS POWER HOUSE on Banks of Colorado River. Steel-sheet piling, supplied by L. B. Foster Co., was used in 35 to 40 ft. lengths to make up the cofferdam which will be filled with 120,000 cu. ft. of concrete.

*"FASTER
from FOSTER"*

Get complete
piling service
from Foster —

the right type, the exact section, the exact length . . . and when you need it . . . on low, fixed expense of our RENTAL Plan.

STEEL-SHEET PILING
H-BEARING PILE • PIPE PILES
H-S LIGHTWEIGHT PILING

Write for Catalog W-1
RAILS • TRACK EQUIPMENT • PIPE FABRICATION

L.B. FOSTER co.

PITTSBURGH 30 • NEW YORK 7 • CHICAGO 4
ATLANTA 8 • HOUSTON 2 • LOS ANGELES 5

3460 Wilshire Blvd.

Los Angeles 5, Calif.

MANUFACTURERS

(Continued from page 174)

nitrous oxide plant at 1231 Second St., West Berkeley, Calif., replacing the present facilities at San Francisco. J. H. Williams, vice president of this division, which operates in eight Western states, will be in charge of the new plant. Executive offices will remain in San Francisco.

San Jose distributor expansion

Wilson D. Patterson, The White Motor Co.'s regional manager, announces the completion of important changes in facilities provided by White-Autocar distributor, Jack Lambrecht, in the San Jose (Calif.) area. Included in the improvements is a 7,000-sq. ft. building comprised of modern offices, parts room and a completely modern maintenance shop. Adjacent to the plant is a 60,000-sq. ft. parking yard where a 30-ft. outside lube pit is located. Assisting Lambrecht at the San Jose installation located at 1675 Bayshore Blvd., are Clair Austin, business manager, and Jim Todd and Ed Ruppenthal, sales.

C. F. Meyer made asst. v. p.

Elected to the newly created position of assistant vice president of National Electric Products Corp., of Pittsburgh, Pa., is Charles F. Meyer.

Howard Meeker retires

Howard R. Meeker, chairman of the board of LeTourneau-Westinghouse Co., announces his retirement as of Jan. 1. Meeker, associated with the J. D. Adams Co. for 41 years, and president for over 10 years, became board chairman of LeTourneau-Westinghouse when this organization acquired the Adams Company the first of 1955.

Muther joins Rucker Company

The Rucker Company, Oakland, Calif., announces that William E. Muther has been appointed manager of manufacturing and estimating. A mechanical engineer, Muther brings to his new position an experience of 17 years in design and manufacture of special hydraulic and pneumatic machinery.

Gar Wood appointment

Gar Wood Industries, Inc., Wayne, Mich., has appointed Harold C. Clark as sales manager, Findlay Division. In his new capacity, Clark will direct sales activities for the Buckeye line.

Changes in sales management

The appointment of J. P. Cody as manager of the industrial division of J. I. Case Co., Racine, Wis., has been announced. He will supervise all activities in connection with the promotion and sale of Case industrial tractors, powerloaders, mowers, and engine units. Cody succeeds George W. Iverson who recently retired after guiding the division for some 25 years. J. E. O'Connor will serve as assistant manager.

Grayson fills new post

John D. Grayson has been named vice president and treasurer of American Tractor Corp., manufacturer of TerraTrac crawler tractors and equipment, a newly created post.

Loader firm names sales mgr.

Promotion of Roy E. Mullin to the newly made position of general sales manager of Napco Industries, Inc., has been announced. In his new capacity, Mullin will supervise sales of the Construction Equipment Division, and the Federal Motor Truck, Napco Products, and Highway Safety Appliances divisions.

Simplex service depots

A new hydraulic jack repair service plan has been adopted by Templeton-Kenly & Co., Broadview, Ill. Under the plan, carefully selected jack repair shops for users of Simplex hydraulic jacks in all important industrial areas are being franchised as factory-authorized service depots, with an identification insignia displayed by the shop.

Plenty of LIFT!
with

MONARCH POWER HYDRAULICS

for Snow Plows and Road Machinery

FOR NEW
OR
EXISTING
EQUIPMENT

The HEP
"Dynamight"
ELECTRIC
POWER CONTROL

FITS ALL TRUCKS — is
FAST and EASY to Install

Available for 6 or 12
Volt Systems

1000 lbs. pressure
1 gal. per minute volume

Fan Belt Models
Also Available.

MONARCH ROAD MACHINERY CO.
1331 MICHIGAN ST. N. E.
GRAND RAPIDS 3 MICH.

See listing page 42, Yellow Section

NEW LITERATURE

(Continued from page 144)

Portable metal shelters

A unique design of portable, sectional metal storage shelters has been announced by Yard-Stor Shelter Co. and is described in an illustrated booklet and supplemental sheets by **Yard-Stor Shelter Co.**, 19256 John R., Detroit 3, Mich. The structures tilt, telescope, nest, or slide apart for easy access. The units are planned to be made available on a rental basis for local crane rental services.

Wedge action breaks concrete

A concrete breaking tool known as a Sabur Point is described in a small folder available from the manufacturer, **Brunner & Lay of Los Angeles, Inc.**, 2425 East 37th St., Los Angeles 58, Calif. The tool has a curved blade which sets up a wedge action to shatter concrete with maximum efficiency.

Winches for tractors

Operators of Oliver and Terratractor crawler tractors will want the complete specification sheets on Carco winches adapted for these tractors and made available either through dealers or direct from **Pacific Car & Foundry Co.**, Renton, Wash. The

specification sheets describe the new E-24 winch developed especially for convenient one- or two-man towing operations. For lighter pulling or hoisting, the Carco Model C is a compact unit providing a line pull over 6,700 lb.

Chemonited lumber

A 32-page booklet reviewing the process of Chemoniting lumber and uses of the treated product has just been released by **J. 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.

Anchors for prestressing concrete

A convenient wall chart reviews the do's and don'ts of using Steelcase Strandvise for prestressing concrete. This device holds the steel strand or rod and will anchor wires ranging from 150,000 to 290,000 psi. at 4,000 to 18,000-lb. tension. The chart is available to anyone interested in prestressed concrete construction from **Reliable Electric Co.**, 3145 Carroll Ave., Chicago 12, Ill.

Crushing and screening line

The Diamond line of crushing and materials handling equipment including jaw and roll crushers, vibrating screens, conveyors, feeders, storage bins, washers, and hammermills is described in Catalog D-106 and available from **Diamond Iron Works**, Halsted St. and 48th Place, Chicago 9, Ill. Typical plant setups are both diagrammed and pictured.

Two industrial engines

An 8-page bulletin describing the Le Roi industrial engines has just been published by the **Le Roi Division of Westinghouse Air Brake Co.** The 3-color bulletin uses pictures, charts, drawings, and diagrams to review the advanced design performance and economies of the two engines, H540 rated at 190 hp. and H844, a V-8 rated at 285 hp. The bulletin which shows applications and list specifications may be obtained from the Sales Promotion Dept., Le Roi Division, Westinghouse Air Brake Co., Milwaukee 1, Wis.

Plastic lining for sewers

T-Lock Amer-Plate which provides a plastic lining for sewers is described in an 8-page brochure published by Amercoat Corp. This lining is designed especially for sewers carrying gasses, acids, alkalis, and salts.

Dilute Bitumuls base treatment slashes costs on haul roads

One of the toughest jobs a Road Builder faces is maintaining heavy-duty haul roads within the scope of available funds and equipment.

Costs Down 50%

One West Coast logging firm has now licked this problem. Last year it used Diluted Bitumuls® Base Treatment and cut maintenance costs more than 50% on heavy duty roads that take the daily pounding of heavy logging trucks.

Previous Methods

In 1950 this company used an asphalt cut-back with 10% Diesel oil at a cost of \$620.00 per mile. Price prohibited applying aggregate cover, and the road deteriorated almost immediately. Expensive months of patching followed.

In 1951 a heavier application of Diesel mixture was used, plus a cover of 1/8" crushed rock, costing \$650.00 per mile. Again, the severe traffic necessitated early patching.

In 1952 the loggers applied hot fuel oil with aggregate cover. They achieved



Water-Wagons like those shown here, a blade grader and roller were the only pieces of equipment needed to maintain good, stable haulroads by the Diluted Bitumuls Base Treatment method.

better results, but costs rose to the prohibitive figure of \$1,000 per mile.

Diluted Bitumuls Treatment

In both 1953 and 1954 a mixture of 10% Bitumuls (Mixing Grade) and 90% water was used at 1200 gallons per mile, in three applications of 400 gallons each. No aggregate cover was required. Total cost—\$294.00 per mile. After 2 years, there has been no raveling or pick up. Dust, a real hazard to drivers, was virtually eliminated.

Old timers will tell you that Diluted

Bitumuls Base Treatment is not new. The method has been profitably used throughout the country for many years under various names. The only equipment required is a water wagon, a mixing blade and a roller. Material is wind-rows; the Bitumuls applied by sprinkler truck, mixed, spread and compacted. The road is then opened to traffic.

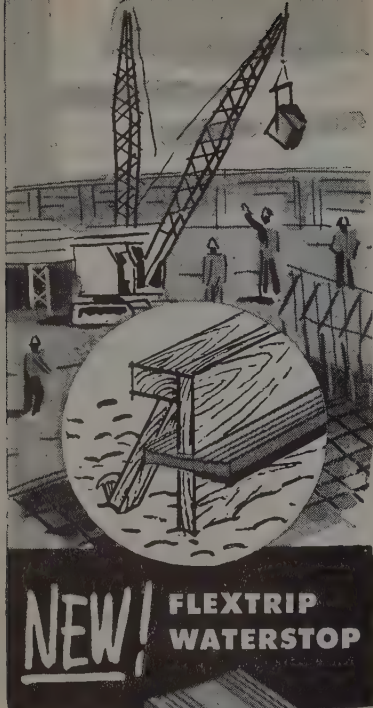
Full information on the Diluted Bitumuls Base Treatment and on other types of Bitumuls construction can be obtained from our nearest office.

**AMERICAN
Bitumuls & Asphalt
COMPANY**

200 BUSH STREET, SAN FRANCISCO 4, CALIFORNIA

Oakland 1, California • Seattle, Washington • Portland 7, Ore.
Inglewood, California • Tucson, Arizona

See manufacturer's listing page 4, Yellow Section



NEW! FLEXTRIP WATERSTOP

THE LATEST

VINYL PLASTIC WATERSTOP

for "wall-floor" and "between-pour" horizontal concrete construction joints

Water just can't get through joints protected by FLEXTRIP, the all-new, strip-type waterstop. Unique concave shape plus ribbed edges give FLEXTRIP a never ending grip in the concrete . . . is flexible enough to withstand extreme joint-separation (more than 3 inches) yet rigid enough to stand up to the battering effect of pouring concrete. Here's lasting joint-protection unmatched by any other waterstop. What's more, FLEXTRIP will never rust, rot, check or crack and is unaffected by acid, alkalis, petroleum products, chemicals or the most adverse atmospheric conditions . . . lasts as long as the concrete. Write for additional information on FLEXTRIP and other vinyl waterstops.

Distributed for

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. BERK & CO.

2344 N.W. 21st St.
Portland 9, Ore.

The booklet describes several major sewer products which have already installed 2,000,000 sq. ft. of this type of liner. Information in the booklet reviews composition, physical and chemical properties, and the method of incorporating the lining in either precast or cast-in-place concrete sewers. The brochure is available from **Amercoat Corp.**, 4809 Firestone Blvd., South Gate, Calif.

Loading for steel joists

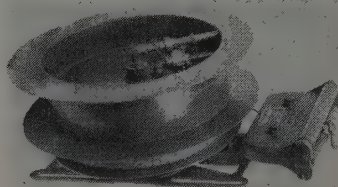
Open web steel joists available from Ryerson are described in a 20-page bulletin which supplies complete design data, load tables, and illustrations of accessories and installation advice for contractors. Copies of the bulletin may be secured from **Joseph T. Ryerson & Son, Inc.**, P. O. Box 188, Emeryville, Calif.

Sheave and sockets for wire rope

Durolite wire rope blocks and fittings in sizes from 6 to 42 in. are described in Bulletin No. 163 just released by Sauerman Bros. This new rigger's block has an extra wide sheave groove permitting use of larger cable than the standard block of the same diameter. Also, Bulletin No. 164 contains diagrams, tables, and other information on sockets for wire rope in sizes from 3/8 to 2 in. Both bulletins may be obtained from **Sauerman Bros., Inc.**, Dept. W-6, 620 S. 28th Ave., Bellwood, Ill.

WESTFALL

COMBINATION AIR HOSE AND TAGLINE REEL



CONTROLS CONCRETE BUCKET

This combination Air Hose Reel is designed to control bucket by cable while it pays in and out air hose. Cable takes all the hard pull—eliminating any strain on air hose. Spring has uniform tension.

Parts are interchangeable with Westfall standard equipment.

Installed in 15 or 20 min. making it a great time and labor saver.

Tagline can be used separately when not in use with cement bucket.

WESTFALL AUTOMATIC TAGLINE

345 E. Second St., Los Angeles 12, Calif.
MUtual 4694

Features of AC tractors

Two illustrative catalogs have just been released by **Allis-Chalmers Mfg. Co.**, one a 16-page bulletin (MS-457) reviewing design and performance features of the new HD-21 diesel power crawler tractor, and the other an 8-page folder (MS-446) reviewing the design and performance data on the new Allis-Chalmers heavy-duty Forty-Five motor grader. Both folders include extensive job photographs as well as specifications and features designed to improve the safety and comfort of the operator. Write Allis-Chalmers Mfg. Co., Milwaukee, Wis.

Melting pot for asphalt

The latest model of Glas-Col portable electric melting pot for asphalts and other materials is described in Bulletin 202 put out by **Glas-Col Apparatus Co.**, 711 Hulman St., Terre Haute, Ind. The new model features a thermostatic control.

Handbook on wire rope slings

An 80-page catalog illustrating and describing 54 types of wire rope slings and their fittings has just been released by the **Wire Rope Corp. of America, Inc.** The catalog reviews the many different types of slings and fittings recommended for specific applications. Capacity tables are provided for slings as well as fittings. Copies are available from the Wire Rope Corp. of America, St. Joseph, Mo.

Belt conveyors and accessories

Stephens-Adamson Mfg. Co., announces a new 16-page bulletin covering the belt conveyor line of the company. The booklet describes not only the regular units, but some special carrier installations, particularly one for handling light materials and the accessories and trippers that go with the line. Bulletin 355 can be obtained from Stephens-Adamson Mfg. Co., Los Angeles.

Trencher for wheel tractors

Features of the new Everett trencher designed specifically for use on Ferguson 35 tractors or the new series of Ford tractors has just been released by **The Earth Equipment Corp.**, 2036 Sacramento St., Los Angeles 21, Calif. The 4-page booklet describes in detail the engineering features of the Everett trencher and the recent design improvements including V-belt power drive, accessible controls, built-in rock guard and single wheel design for faster penetration.

Views of steel construction

Illustrating the many types of new construction carried out by the Fabricated Steel Construction Division

See listing page 60, Yellow Section

of Bethlehem Pacific Coast Steel Corp., a 16-page brochure is available which should be of particular interest to structural engineers and contractors. The pictorial booklet describes a wide variety of structures and projects. It can be secured from the Publications Dept. of the corporation at 20th & Illinois Sts., San Francisco.

Service tools for GMC trucks

A 48-page GMC truck special service tool manual is now available presenting complete information on all of the Kent-Moore special tools required to carry out recommended service on GMC gasoline and diesel powered trucks. The manual is prepared for the GMC truck service man and describes and illustrates hundreds of special service tools for working on axles, brakes, clutches, transmissions, fuel systems, steering mechanisms, and other assemblies. Model applications include the 1955 additions. The manual can be obtained from the **Kent-Moore Organization, Inc.**, 5-105 General Motors Bldg., Detroit 2, Mich.

Use of calcium chloride

A manual reviewing the use of calcium chloride for highway maintenance during winter season has been made available by the **Calcium Chloride Institute**. The 32-page book discusses the material, its characteristics, storing and application. Tables and charts covering skid test and melting action are included. Address of the Institute is 909 Ring Bldg., Washington 6, D. C.

Forms for concrete pipe

A catalog of the complete line of steel forms for all shapes, sizes, and lengths of concrete pipe has recently been released by the **Quinn Wire and Iron Works** of Boone, Iowa. In addition to describing the complete line of forming equipment, the catalog contains information of direct interest for anyone casting concrete and includes an outline of methods, production suggestions, and culvert capacities. These forms are designed for casting culverts, sewers, man-holes, septic tanks, cattle passes, etc. In addition the company makes bending rolls for shaping wire fabric used in the production of reinforced concrete pipe. The 32-page catalog may be secured direct from Quinn Wire and Iron Works, Boone, Iowa.

Boilers for heating or power

The Koehring-Waterous line of heating and power boilers is described in a new catalog of 16 pages including 35 photographs, drawings, and charts. A selection guide is incor-

porated to provide a handy reference chart based on the output requirements to aid in determining boiler sizes and types for specific installations. Copies of this catalog may be obtained from any Koehring-Waterous boiler representative or direct from **Koehring-Waterous, Ltd.**, Brantford, Ontario, Canada.

New scrapers by Caterpillar

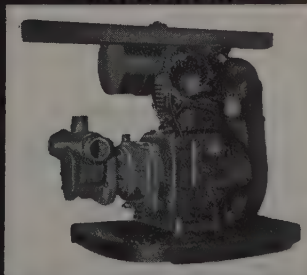
Literature on the new Lowbowl Nos. 456 and 470 scrapers has recently been made available by Caterpillar Tractor Co. This new bowl design increases capacity of the scraper and permits faster and easier loading. The new units have capacities of 17-yd. struck and 25-yd. heaped. The bulletin No. 31690 is available from any Caterpillar dealer or the Advertising Dept., **Caterpillar Tractor Co.**, Peoria, Ill.

Wire rope slings

Dura-grip wire rope slings are described and illustrated in a new bulletin prepared by Wickwire Spencer Steel Division of The Colorado Fuel & Iron Corp. The splice construction which develops full strength of the rope and guarantees long life and extra safety is featured in the bulletin. It also gives a complete listing of dimensions and rated capacities. Copies available from **The Colorado Fuel & Iron Corp.**, 575 Madison Ave., New York, N. Y.

WATER MAIN PRESSURE TEST PUMP

PORTO PUMP A ROTARY, RUBBER
GEAR PUMP MECHANIZES AND EXPEDITES THE PRESSURE TESTING OF
WATER MAINS AND FIRE SPRINKLER
INSTALLATIONS.



Quickly develops required testing pressure up to 200 PSI, powered by dependable 4 cycle gasoline engine, weighs 95 lbs., only one man required for pump operation, saves time and labor, increases profits.—also excellent for jetting operations, core and exploratory drilling operations, cleaning transit mix cement trucks and dirty equipment, wetting down poured concrete structures, such as bridge supports, and various other applications requiring a portable pressure pump.

Dealers Inquiries Invited
PORTO PUMP, INCORPORATED
227 IXON STREET, DETROIT 7, MICH.

See listing page 47, Yellow Section



"THIS LUBRICANT DOUBLES THE LIFE OF GEARS"

—says TRINITY ALPS LUMBER CO.
Hayfork, California

"Our trucks have a forty mile county road logging haul over adverse grades, each truck making two complete round trips each working day. Our shop foreman in charge of maintenance, reports that with the use of LUBRIPLATE Lubricants there has been a minimum of truck down time and replacements of bearings and gears. The double reduction gears with LUBRIPLATE APG-140 has shown a saving of fifty per cent over previous operations."

REGARDLESS OF THE SIZE AND TYPE OF YOUR MACHINERY, LUBRIPLATE LUBRICANTS WILL IMPROVE ITS OPERATION AND REDUCE MAINTENANCE



LUBRIPLATE
LUBRICATION
MAKES CARS AND
TRUCKS RUN
BETTER AND LAST
LONGER

LUBRIPLATE H. D. S. MOTOR OIL . . . needs no additives

LUBRIPLATE DIVISION, Fiske Brothers Refining Co.
Newark 5, N. J. or Toledo 5, Ohio

DISTRIBUTED BY

Campbell Industrial Supply Co., Seattle, Wash.
Nott-Atwater Company, Spokane, Wash.
Goodyear Rubber & Asbestos Co., Portland, Ore.
Moly & Van Dyke, Inc., Klamath Falls, Ore.
Hendrie & Bolthoff Co., Denver, Colo.
Garlinghouse Brothers, Los Angeles, Calif.
Industrial Supply Co., Billings, Mont.
Fleck Brothers, Ltd., Vancouver, B. C., Canada
Campbell Industrial Supply Co., Tacoma, Wash.
Dodge-Yakima Supply Co., Yakima, Wash.
Industrial Lubrication Supply Co., Eugene, Ore.
Miller & Stern Supply Co., San Francisco, Calif.
Degen-Fiege Co., Los Angeles, Calif.
Hudson Equipment Co., San Diego, California
Sawtooth Company, Boise, Ida.
Wilkinson & McClean, Ltd., Calgary, Alberta, Can.
Bart-Sayer Co., El Centro, Calif.

LUBRIPLATE
THE MODERN LUBRICANT

UNIT PRICES

Selected abstracts for Western projects

IRRIGATION—Earthwork and structures for Eden Project in Wyoming

Wyoming—Eden Project—Bureau of Reclamation—Sharrock and Pursel submitted a low bid for the construction of sublaterals, drains, and waste-ways on the Eden Project. Unit prices were as follows:

(1) Sharrock and Pursel.....	\$845,453.50
(2) LeGrande Johnson Construction Co.....	867,724.49
Platte Valley Construction Co.....	1,057,965.00
Engineer's Estimate.....	692,755.00

	(1)	(2)
513,000 cu. yd. Excavation for lateral.....	\$.38	\$.46
16,300 cu. yd. Excavation for structures.....	1.00	2.25
Lump Sum Removing existing structure.....	L. S.	L. S.
94,000 cu. yd. Filling Eden Canal.....	.25	.20
123,000 cu. yd. Placing and compacting earth lining.....	.50	.46
60,000 cu. yd. Blending earth lining materials.....	.15	.25
142,000 cu. yd. Compacting embankments.....	.20	.21
75,000 cu. yd. Excav. from stock piles for embank.....	.20	.17
12,400 cu. yd. Backfill about structures.....	.50	.65
6,830 cu. yd. Compacting backfill about structures.....	4.00	2.50
250,000 mi. cu. yd. Overhaul.....	.20	.20
710 cu. yd. Sand and gravel bedding for riprap.....	11.50	12.00
2,200 cu. yd. Riprap.....	11.50	12.00
1,200 cu. yd. Concrete in structures.....	125.00	90.00
1,910 bbl. Furnishing and hauling cement.....	8.00	7.75
122,000 lb. Furn. and placing reinforcement bars.....	.18	.16
53 sq ft. Furnishing and placing 1/2 in. elastic filler material in joints.....	2.00	3.00
72 li. ft. Furnishing and pacing 6 in. rubber waterstops in joints.....	3.00	3.00
40 lin. ft. Furnishing and laying 36 in. diam. corrugated metal pipe.....	12.00	11.21
38 m.b.m. Furn. and erect. timber in structures.....	300.00	354.00
200 lin. ft. Furnishing and installing pipe rails for cattle guard on bridge.....	2.00	3.00
22 cattle guards Furnish. and construct cattle guards.....	500.00	1,200.00
29 mi. Furnishing and erecting barbed wire right-of-way fences.....	1,200.00	1,828.00
370 lin. ft. Furnish. and erect. protective fences.....	3.00	1.50

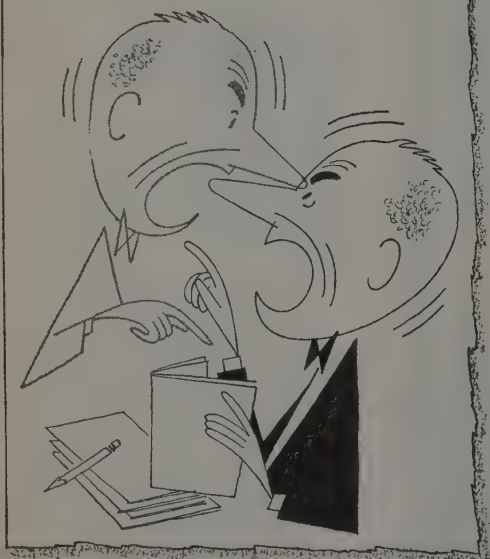
2,520 lin. ft. Furnishing and laying 18 in. diam. standard strength conc. culvert pipe, type "B" joints.....	6.00	5.37
1,420 lin. ft. Furnishing and laying 24 in. diam. standard strength conc. culvert pipe, type "B" joints.....	8.00	7.96
520 lin. ft. Furnishing and laying 30 in. diam. standard strength conc. culvert pipe, type "B" joints.....	11.00	10.85
55 lin. ft. Furnishing and laying 36 in. diam. standard strength conc. culvert pipe, type "B" joints.....	15.00	14.00
440 lin. ft. Furnishing and laying 36 in. diam. HC50 concrete pressure pipe, type "R" joints.....	30.00	24.37
230 lin. ft. Furnishing and laying 42 in. diam. HC50 concrete pressure pipe, type "R" joints.....	38.00	31.48
220 lin. ft. Furnishing and laying 54 in. diam. HC50 concrete pressure pipe, type "R" joints.....	55.00	44.51
190 lin. ft. Furnishing and laying 66 in. diam. HC50 concrete pressure pipe, type "R" joints.....	70.00	60.65
32 transitions Furnishing and laying 18 in. diam. precast concrete pipe transitions.....	100.00	49.37
5 transitions Furnishing and laying 24 in. diam. precast concrete pipe transitions.....	150.00	79.77
32 bends Fabricating bends in 18 in. diam. precast concrete pipe.....	50.00	40.00
29 bends Fabricating bends in 24 in. diam. precast concrete pipe.....	60.00	50.00
10 bends Fabricating bends in 30 in. diam. precast concrete pipe.....	75.00	65.00
11 bends Fabricating bends in 36 in. diam. precast concrete pipe.....	200.00	223.00
5 bends Fabricating bends in 42 in. diam. precast concrete pipe.....	230.00	259.00
2 bends Fabricating bends in 54 in. diam. precast concrete pipe.....	330.00	440.00
3 bends Fabricating bends in 66 in. diam. precast concrete pipe.....	600.00	622.00

HIGHWAY—A county road about 5.1 mi. long to be graded and surfaced in California

California—Orange County—State. Sully-Miller Contracting Co. submitted a low bid of \$316,471.90 for grading and plant-mixed surfacing on untreated base on a 5.1 mi. county road. Unit prices were as follows:

(1) Sully-Miller Contracting Co.....	\$316,471.90
(2) Cox Bros. Construction Co.....	329,684.15
R. J. Noble Co.....	351,052.50
Griffith Company.....	357,361.75

Supplier problems got you talking to yourself?



The answer's in the YELLOW PAGES!



Why talk to yourself? The people you want to talk with are the local suppliers listed in the handy Yellow Pages of your telephone directory. The "Classified" section is packed with information about local folks who serve or sell . . . who they are, where they are, what they have to sell, how to get in touch with them. So, when you have a tough supplier problem (or even an easy one) reach for the Yellow Pages. They've been the nation's local buying guide for more than 60 years. Make them yours, too!

You'll find it fast in the . . .

'YELLOW PAGES'



Pacific Telephone



	(1)	(2)
Cleaning and grubbing.....	\$20,000.00	\$20,000.00
Dev. wat. supp. & furn. watering equip.	1,000.00	1,250.00
Applying water.....	1.89	1.50
2,500 M. gal. Roadway excavation.....	.60	.59
80,000 cu. yd. Structure excavation.....	2.00	4.00
120 cu. yd. Structure backfill.....	2.50	3.75
40 cu. yd. Untreated base.....	2.08	2.08
54,000 ton Liquid asphalt, SC-2 (prime coat).....	29.00	27.50
155 ton Asphaltic emulsion (paint binder and fog seal coat).....	48.00	32.00
31 ton Paving asphalt (P.M.S.).....	3.90	4.45
1,250 ton Mineral aggregate (P.M.S.).....	3.90	4.45
25,000 ton Class "A" concrete (structures).....	100.00	85.00
7 cu. yd. Class "B" concrete (curbs and gutters).....	33.00	43.00
400 cu. yd. 24 in. R.C.P. (2500-D).....	25.00	15.00
4 lin. ft. 18 in. C.M.P. (12 ga.).....	5.90	7.25
21 lin. ft. 21 in. C.M.P. (14 ga.).....	5.50	7.00
10 lin. ft. 22 in. x 13 in. C.M.P. (12 ga.).....	7.00	7.25
86 lin. ft. 29 in. x 18 in. C.M.P. arch (14 ga.).....	6.80	7.00
40 lin. ft. Salvaging existing pipe culverts.....	1.00	1.20
547 lin. ft. Finishing roadway.....	3,500.00	1,000.00
48 ea. Adjusting manholes to grade.....	48.00	30.00
650 lb. Miscellaneous iron and steel.....	.50	.60

HIGHWAY—Construction of 7.5 mi. of State Highway near Wellington, Nevada

Nevada—Douglas and Lyon Counties—State. Silver State Construction Co. submitted a low bid of \$235,142.46 for the construction of 7.5 mi. of State Highway near Wellington. Unit prices were as follows:

(1) Silver State Construction Co.....	\$235,142.46
(2) Isbell Construction Co.....	241,633.18
Young & Smith Construction Co.....	252,046.53
Dodge Construction Inc.....	267,610.86
Nevada Contractors Inc.....	270,427.00
Wells Cargo, Inc.....	275,749.72

	(1)	(2)
Lump Sum Signs.....	\$	\$
1,500 hr. Flagman.....	2.25	2.50
6,095 lin. ft. Remove fence.....	.05	.10
Lump Sum Remove girder bridge.....	1.00	1.00
507 lin. ft. Remove culvert pipe.....	20.00	15.00
13 ea. Remove headwalls.....	100.00	150.00
8 ea. Remove concrete structures.....	.34	.26
181,134 cu. yd. Roadway excavation.....	.38	1.00
890 cu. yd. Drainage excavation.....	5.00	5.00
86 sta. V-type ditches.....	.015	.01
588,054 yd. sta. Overhaul, yd. sta.....	.10	.15
114,210 yd. mi. Overhaul, yd. mile.....	1.50	1.00
1,580 cu. yd. Structure excavation.....	1.00	1.50
1,720 cu. yd. Backfill.....	.50	1.00
8,087 M gal. Water.....	6.00	7.00
Lump Sum Furnish water equipment.....	.40	.70
108 hr. Power roller.....	.44	.45
6,494 ft. hr. Tamp or pneumatic-tired roller.....	.54	.60
24,621 ton Selected material base.....	35.00	35.00
32,880 ton Selected material surface.....	1.00	2.00
61 ton Liquid asphalt, Type MC-2.....	29.90	31.00
287 ton Sand roller.....	700.00	750.00
870 ton Liquid asphalt, type SC-3 or SC-4.....	.10	.25
7.46 mi. Roadmix.....	.20	.10
2,328 sq. yd. Roadmix intersections.....	75.00	70.00
6,845 lin. ft. Roadmix shoulder dike.....		
294 cu. yd. Class "AA" concrete.....		

37,200 lb. Reinforcing steel.....	.14	.15
.210 Mfbm Treated Douglas Fir.....	300.00	200.00
128 lin. ft. 8 in. corrugated metal pipe.....	2.00	3.00
100 lin. ft. 18 in. corrugated metal pipe.....	3.50	4.00
1,194 lin. ft. 24 in. corrugated metal pipe.....	5.00	6.00
488 lin. ft. 36 in. corrugated metal pipe.....	9.50	11.00
80 lin. ft. 22 in. x 13 in. corrugated metal arch pipe.....	4.50	5.50
224 lin. ft. 29 in. x 18 in. corrugated metal arch pipe.....	7.00	9.00
38 lin. ft. 43 in. x 27 in. corrugated metal arch pipe.....	13.00	15.00
36 lin. ft. 18 in. corrugated metal siphon pipe.....	5.00	7.00
24 lin. ft. Relay culvert pipe.....	2.00	2.00
14 cu. yd. Grouted hand laid riprap.....	25.00	25.00
1 ea. Move pipe culvert headwall.....	25.00	30.00
5,200 lin. ft. Standard steel guard rail, type "B".....	3.00	3.70
313 ea. Culvert markers and guide posts.....	5.00	6.00
1,625 lin. ft. Construct type A-32-3B fence.....	.50	.35
11,838 lin. ft. Construct type A-5B fence.....	.35	.35
6 ea. 16-ft. metal gates.....	50.00	75.00
50 ea. Reference monuments.....	10.00	7.00
33 ea. Right-of-way markers.....	5.00	8.00
8 ea. Embankment protector.....	35.00	35.00
Force Account Miscellaneous work.....		

BRIDGE—New 10-span continuous steel 5-girder bridge and grading of approaches near Globe, Arizona

Arizona—Gila—State. Givens Construction Co. submitted a low bid of \$352,476.65 for the construction of a 10-span continuous steel 5-girder bridge on U.S. 70 east of Globe. Unit bids were as follows:

(1) Givens Construction Co.....	\$352,476.65
(2) Western Constructors, Inc.....	354,461.75
Hagen Construction Co., Inc.....	356,960.00
Mardian Construction Co.....	364,940.50
Royden Construction Co.....	384,809.75
San Xavier Rock & Sand Co.....	394,806.50

	(1)	(2)
29,500 cu. yd. Roadway excavation.....	\$.40	\$.43
960 cu. yd. Structural excavation.....	2.50	4.50
1,600 cu. yd. mi. Overhaul.....	.18	.25
1 Lump Sum Provide water supply.....	1,000.00	1,000.00
303 M. gal. Apply water.....	.94	1.85
1,305 hr. Rolling.....	8.13	8.50
817,250 lb. Structural steel (CIP).....	.165	.162
1,565 lin. ft. Aluminum handrail (CIP).....	13.75	12.00
1,483 cu. yd. Class "A" conc. (including cement).....	53.00	51.00
209,750 lb. Reinforcing steel (bars) (CIP).....	.137	.13
170 lin. ft. Furn. and driving steel H-column test piles (12 in. x 53 lb.).....	8.75	8.60
880 lin. ft. Furn. and driving steel H-column piles (10 in. x 42 lb.).....	7.50	5.50
4,860 lin. ft. Furn. and driving steel H-column piles (12 in. x 53 lb.).....	8.00	6.75
365 lin. ft. Steel sheet piling wall (CIP).....	50.00	87.00
50 ea. Splicing piles (steel H-column) (10 in. x 42 lb. and 12 in. x 53 lb.).....	12.50	24.00
9,600 lb. Cutoff of piles (steel H-column) (10 in. x 42 lb. and 12 in. x 53 lb.).....	.10	.10
440 cu. yd. Riprap (plain) (std. C-23) (type E) (CIP).....	3.75	6.25
2 ea. Right-of-way markers (std. C-1) (type "B" or "C") (CIP).....	8.75	10.00
150 lin. ft. Bank protection (std. C-23) (type A) (CIP).....	9.38	11.50

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ADVERTISERS in this issue

NOTE...

... Advertisements of Western distributors, representing expanded listings in the Distributor Section of the 1956 W. C. Handbook, appear in each case adjacent to the distributor's listing in the Handbook.

Also, for the convenience of users of the W. C. Handbook, manufacturer advertisements in the regular pages are cross-referenced to their listings in the Handbook's yellow pages (1) by a line appearing directly below these advertisements, and (2) in the accompanying advertisers' index.

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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.
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BACKFILL, uncompacted

How close can you come?

On a highway construction job in Denver that will cost over \$400,000, the low and second bidders were only \$1.50 apart. The bids were called by the Colorado State Highway Department and according to newspaper figures, the Northwestern Engineering Co. of Denver bid \$418,668 and the Harrison & Atkinson Co. of Denver bid \$418,669.50. This difference of \$1.50 is reported to be the smallest bidding margin in the records of the Colorado Highway Department.

Some say yes and some say no

Results of introducing a serious error in the preparation of a bid are different based on circumstances and the awarding agency.

The California Department of Public Works announced recently that Charles L. Harney, Inc. of San Francisco, had made an obvious mistake in the preparation of a bid of \$1,730,560.40 for the construction of a section of freeway near Oakland. As a result, the contractor refused to accept the contract and the Department awarded it to the second low bidder, Fredrickson & Watson Construction Co. of Oakland at a figure of \$1,856,248.50.

On about the same date in Los Angeles, Jerry Artukovich announced to Los Angeles County that he had made a mistake in failing to introduce a cost item of about \$100,000 in his bid of \$1,089,935. He stated that he

had put in a figure of \$20,000 for equipment rental whereas it should have been \$120,000. The attorney for Los Angeles County told the supervisors that to permit the contractor to introduce the additional \$100,000 after the bid had been made would destroy the very principle of competitive bidding. Artukovich was held to his original bid.

You can always move

If you live next door to a main line railroad you cannot complain about the noise and nuisance of an adjacent asphalt plant. At least, that would appear to be a layman's interpretation of a recent court decision in Utah.

The party doing the complaining lived about 200 ft. from a main line railroad carrying 42 trains a day and the street in front of the house carried heavy traffic including a lot of trucking. Adding to the noise of the location was a petroleum refinery and a bulk loading plant.

With all of these nearby elements of sounds and confusion, the complainant took exception to an asphalt plant located about 300 ft. away particularly because of noises and smells during nights and Sundays when the hot plant was getting ready for a day's run or repairing equipment.

In the exact words of the court, "No one is entitled to absolute quiet in the enjoyment of his property; he may only insist upon a degree of quietness consistent with the standard of comfort prevailing in the locality in which he dwells."

Twenty-five years ago in *Western Construction*

"Bids will be opened March 4 in Denver for the construction of Hoover Dam. Its content of 4,400,000 cu. yd. of concrete will exceed the concrete placed to date by the Bureau of Reclamation in all of its dams and structures."

* * *

"On December 22, the consulting board for the Metropolitan Water District of Southern California approved the recommendations of Frank E. Weymouth, chief engineer for the district, on the Parker route for the Colorado River Aqueduct. The Parker route is 265 mi. long and the aqueduct is estimated to cost \$200,664,000."

* * *

"On January 26-30 the Associated General Contractors of

America will hold their 12th annual national convention in San Francisco. W. A. Bechtel, past president of AGC will extend official greetings at the opening session."

* * *

"Last November Deadwood Dam was completed in Idaho. Frank T. Crowe was superintendent of construction for Morrison-Knudsen Co. R. J. Newell is superintendent of the Boise project for the Bureau of Reclamation."

* * *

"Last month the Owyhee Dam reached the halfway point of construction. Construction engineer for the Bureau of Reclamation is F. A. Banks. Ben Cook and C. G. Clapp are in charge for the General Construction Co."

Happy birthday to us!

Thirty years ago this month the first issue of "Western Construction News" greeted its readers. No use relating history at this time; five years ago this same month our "Twenty-fifth Anniversary Issue" told you all about our early years.

Pictures in that first issue show plenty of horse-drawn equipment, so we have grown up with the mechanization of construction in these eleven Western states.

During those 30 years our objective has been to provide readers with useful information on field methods and construction techniques to make their efforts more profitable. Articles have passed along ideas on how contractors can build structures faster, better, and at a lower cost. **Western Construction** has served as a clearing-house in this exchange of information. In this area, which has peculiar construction problems that set it apart from the 37 Eastern states, there is definite need for one publication to perform this service.

The West is a product of modern construction. Our industry has made possible the conservation of water, the routes of transportation and the structures on which the West has been built. The volume and variety of construction activity during the past 30 years will be dwarfed by the work in the years to come. So, on its birthday, **Western Construction** looks back with satisfaction at its years of service and forward with eagerness to be of greater aid to the construction industry of this entire Western region.

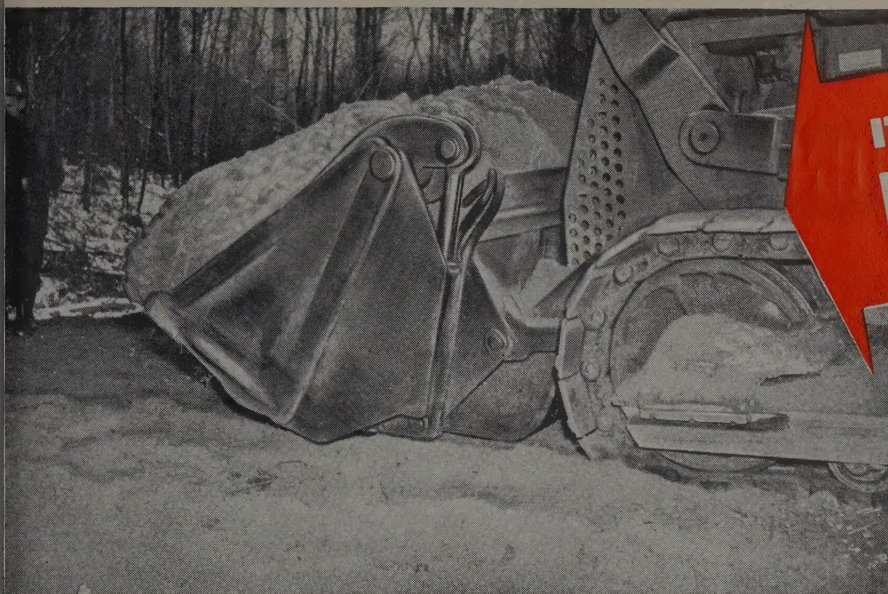
NEXT MONTH

PROBLEMS OF FOUNDATION construction in Alaska, where piles are frozen into the permafrost and the "bush" job has its usual headaches of supply and transportation, provide the real winter flavor for February.

"PUTTING THE ADVANTAGES of electric power to work on the small construction job" has helpful information for both small and large contractors. Cost figures are included.

WHAT are the objectives and accomplishments of the joint AED-AGC Committee, and how is its purpose translated into effective aid to local groups of contractors and distributors? This important subject will be discussed by an authority.

... The Editors

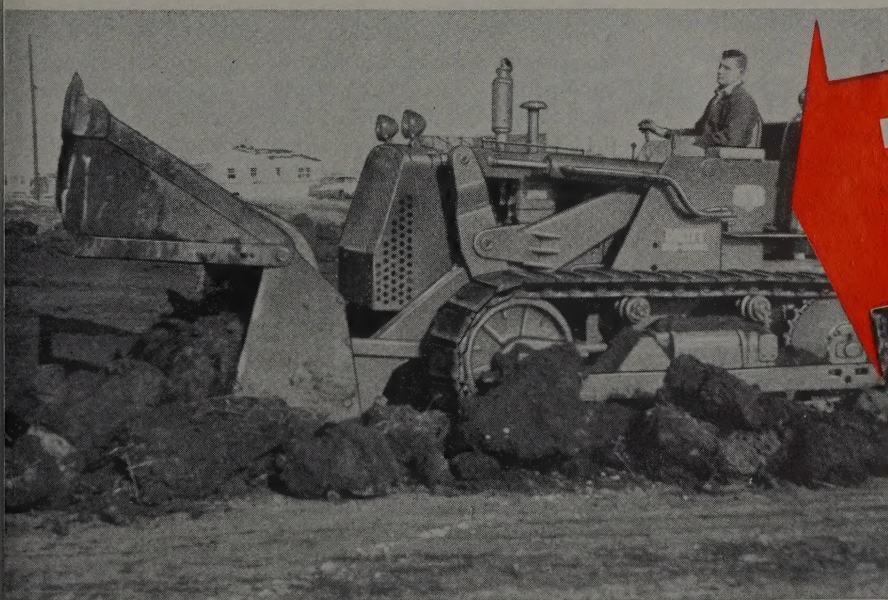


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Bulldozer**

with clam open in bulldozing position, the big-capacity earth-rolling blade has cutting edge and shoes on the ground. You regulate depth of cut with ease and accuracy by hydraulic "radius control" of blade pitch (forward and backward).



International Harvester Company, Chicago 1, Illinois

INTERNATIONAL®

DROTT

The Federal Aid outlook

Again the Congress is about to attack the problem of accelerating the nation's highway building program. Since it adjourned in 1955 without taking positive action on several proposals there have been few indications from members of either branch that a decision will be any easier now than it was then. The forces that took exception to the various plans a year ago will undoubtedly take the same position this session. In the meantime the highway system of the country grows progressively more inadequate, particularly here in the West. State highway departments, as well as smaller governmental units, mark time. They cannot accelerate planning until some idea of funds to be made available and their allocation has been spelled out in some detail.

Any large scale expansion of the Federal highway program will necessarily require additional taxes on fuel or equipment and accessories, or both. An election year is coming up when any reference to new taxes causes Congress to look the other way. Next, any medium size of expanded program could be bond-financed with repayment made from present Federal gas tax and other revenue, if diversion were restricted. Finally, a modest size increase in Federal help to highway building could be handled by increasing Federal Aid funds under the existing system of allocation and controls.

Of these three possible courses, which one appears most likely to be a 1956 reality? New tax levies will meet tough going; bond financing, even when it is self-liquidating with existing gas revenues, will find opponents in Congress. That leaves an expansion of present Federal Aid as the most likely to clear Congressional hurdles. It has many advantages as an interim program for a biennium, permitting further study and organizing of data to back the essential "big program" at a later session.

At least such a plan could be set into motion with minimum confusion. It would permit existing organizations to move through known procedures and regulations. Western state highway departments have worked for years with the Bureau of Public Roads, and there is mutual respect and understanding. A logical guess at this time would be for the highway industry to look forward to an acceleration of the regular Federal Aid program for the next two years.

Frustrated young engineers

Non-technical factors so often determine the yes-or-no of construction projects that the young engineer should be taught to see beyond his slide rule. When he gets old enough he will begin to realize this unpleasant situation. During the preceding years he frets and develops frustrations. In college he must be taught that the lowest cost is the engineers' objective. However, it might also be possible to give him just a small peek into the big wide world and tell him his design, which meets engineering requirements, may be rejected for reasons that are human fancy rather than technical fact.

This situation develops on all sizes and types of projects, from the plans for the upper Colorado River where dinosaur bones moved multi-million dollar dams, to the location of a local school building where an influential citizen or the town newspaper has strong convictions. The smart engineer gradually becomes something of a philosopher, and comes to realize that non-technical considerations are no small hurdle.

How many times do you hear a young graduate say: "There is a correct engineering solution to that problem, and when that answer is found there should be no further question." With this thought as his guide he and his contemporaries at the level of figuring cost-per-unit, estimating quantities and making calculations of physical forces, work hard to get the answer. Then they sit by and watch their uncontestable decision batted around by public officials, newspapers, politicians, and just plain citizens.

In the disgust of seeing his effort kicked around he comes to a bitter and cynical reaction that does him no good as an individual and does not provide a good perspective for his next bigger assignment. He begins to wonder whether engineering is an exact science, as he was taught, and whether other people are just plain dumb in failing to accept an answer he can prove mathematically correct.

Somewhere in the four years of engineering education, which concentrates on how important it is to get the "correct" answer, the department head, or a professor who has age, perspective, and proper background should devote a lecture or two to intangible factors that affect such conclusions. This could be done without malice, defeatism or touch of sour grapes. It could be realistic and just plain facts-of-life talk. If properly done it would not tear down the precepts of engineering. It could be done in a way that would let the graduate know forces beyond his control may be expected to act on his best efforts. Such an eye-opener would do much to keep the young engineer from getting too upset when public-opinion forces get mixed up with his slide rule.