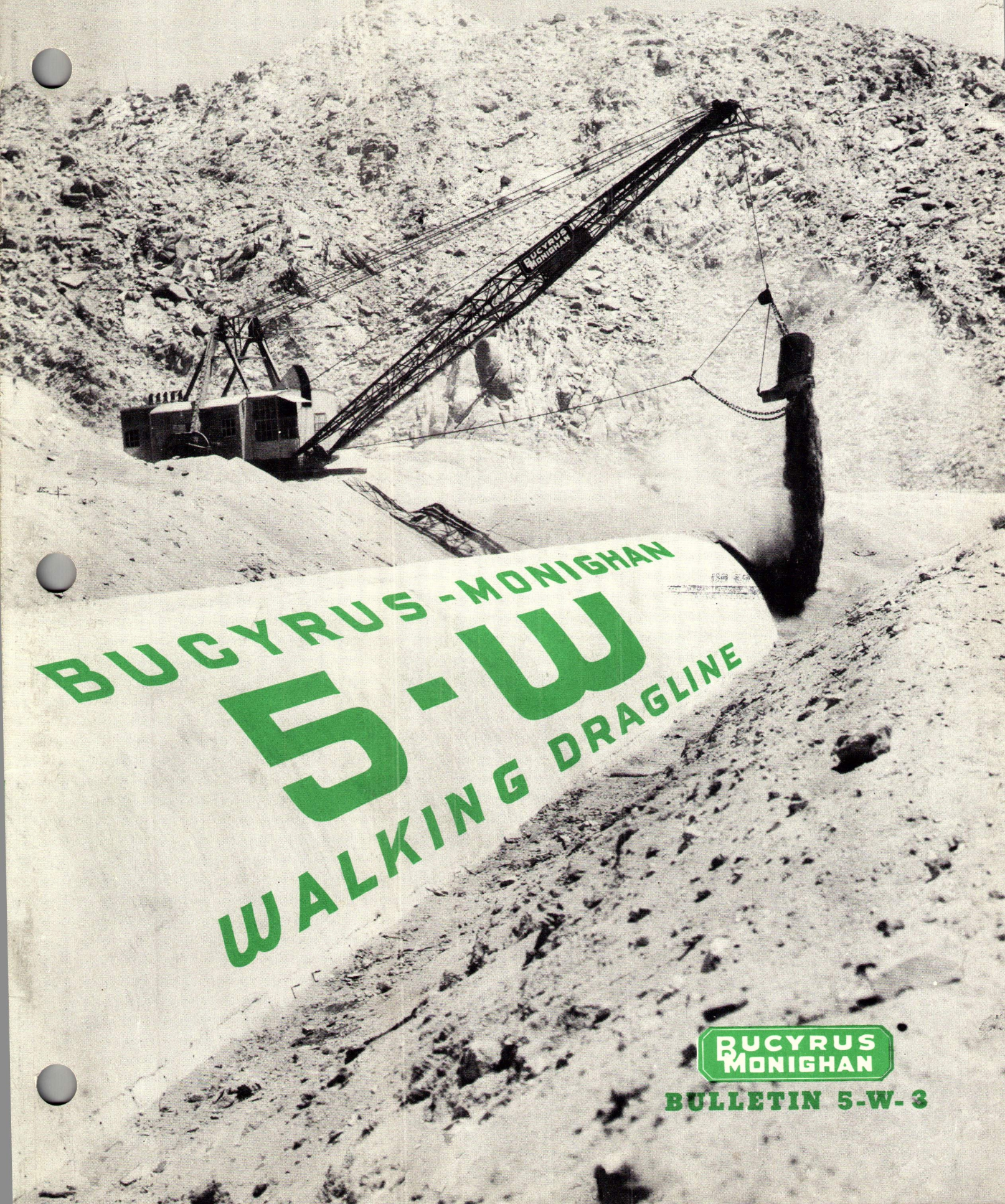


LONG RANGE — BIG OUTPUT

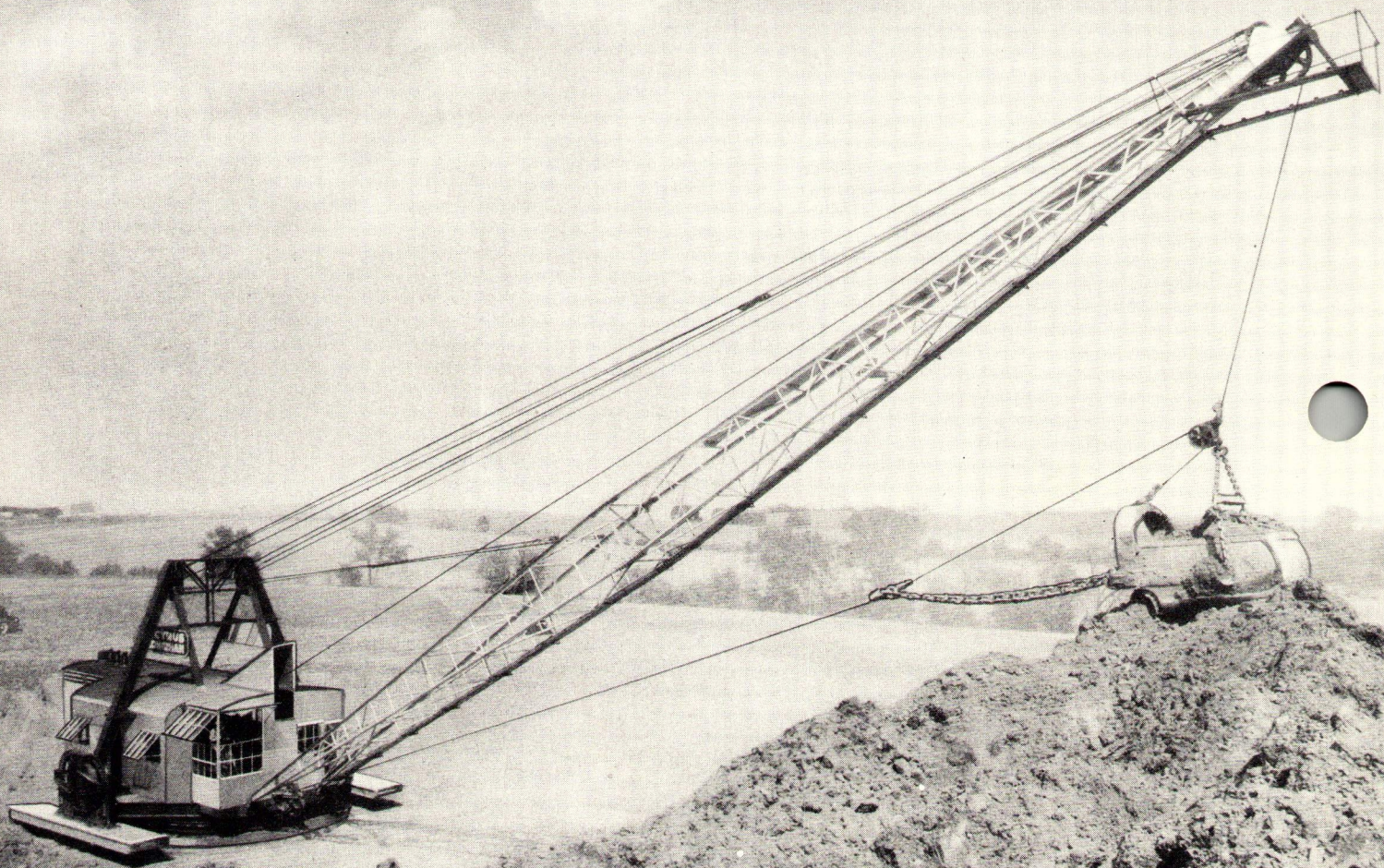


BUCYRUS-MONIGHAN
5-W
WALKING DRAGLINE

**BUCYRUS
MONIGHAN**

BULLETIN 5-W-3

A FAST, POWERFUL, Long Range, Walking Dragline with Big Output Capacity



Many Bucyrus-Monighans are used for stripping. This 5-W is removing overburden for the Atlas Coal Company near Oskaloosa, Iowa.

YEARS ahead in design and construction, the Bucyrus-Monighan 5-W has proved its ability to deliver steady all-weather performance and record-output on a host of difficult jobs all around the world. It combines long working ranges and big output capacity with exceptional maneuvering ability and very large bearing area for work on soft footing. The exclusive Bucyrus-Monighan Rolling Cam gives an *unequaled* smooth easy walking action. The strong, compact machinery is specially arranged for easy, convenient shipment. It is a quality machine throughout, built to the highest modern engineering and production standards. It is one of a well known line of machines which have made a world-wide reputation for high-speed output and low-cost operation. Sold by Bucyrus-Erie Company, the 5-W has behind it the experience, resources and engineering skill of the world's largest and oldest manufacturer of excavating equipment.

You will be proud of the fine appearance and obvious ability of this machine. You will be delighted with its simplicity and the freedom it will give you from most of the grief connected with dragline jobs. It gives you the best possible insurance against bad-weather losses.

The 5-W can be depended on to give you constantly the highest yardage, the lowest operating costs, and the *biggest profits*, on any job suitable to a machine of its size.



The BUCYRUS-MONIGHAN 5-W Offers You Many ● Valuable Money-Making Features. These Include:

- big output-capacity . . . fast cycle . . . quick moves . . . steady all-weather performance
- long working-range with bucket capacity to suit varying working conditions . . . for instance the 5-W can move material up to 240' with a 5-yard heavy-duty bucket on a 180° swing
- exceptional maneuverability . . . steps off in any direction . . . easy to place machine in most effective digging and spoiling position
- large bearing area . . . works and walks on any ground that will support a man . . . can work close to edge of bank
- long life . . . simplicity and strength all through the machine
- less maintenance . . . moving parts reduced to a minimum . . . less wear . . . big parts to take it . . . quality steel and design throughout
- accurate machinery alignment . . . strong, rigid foundation
- simple main machinery . . . enclosed transmissions running in oil . . . *electric-powered* swing with *Ward Leonard* control
- shipment simplified . . . easy to load or unload . . . no need to disassemble main machinery unit for U. S. A. railroad shipment
- diesel or all-electric drive . . . big, powerful, two-cycle diesel . . . economical . . . simple . . . minimum moving parts . . . heavy duty electric motors
- ~~oil hydraulic~~ ^{air} control . . . fast acting . . . easy to handle accurately . . . big area clutches and brakes . . . smooth operation
- all-welded boom . . . tubular braces . . . positive boom-hoist . . . worm-gear driven . . . high A-frame . . . wide boom-foot
- Red Arch bucket . . . fast filling . . . fast dumping . . . inserted Tiger teeth, easy to reverse, resharpen or renew

Stays on Top of Soft Going . . . "Steps Out" in Any Direction

THE 5-W is famous the world around for its ability as a "mudder". It digs while standing on the 452 square feet of circular base. It is always ready to step off in any direction. Because of this agility, a Bucyrus-Monighan has unique ability to side-step trouble, get away from slides, work or walk along the edge of a bank, and make quick detours around any obstructions in its path. Because of its large bearing area and

ease of mobility it is the most desirable machine to operate on loose sands, along soft or muddy river banks, or during rainy weather when any crawler type of equipment would be shut down. As illustration shows, it operates equally as well on desert gravels. Because of the simplicity, strength and dependability of its traction mechanism (and of the entire machine) the 5-W is the ideal selection for jobs far from the facilities of large machine shops and factory service.



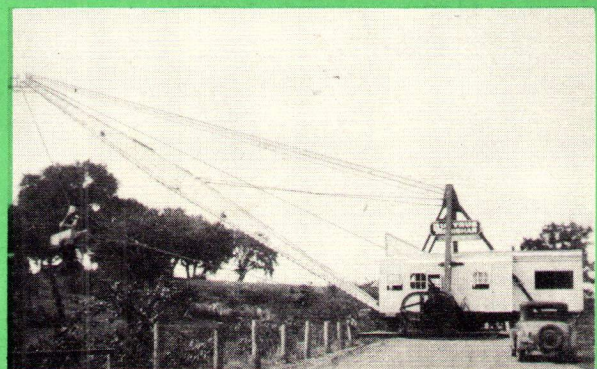
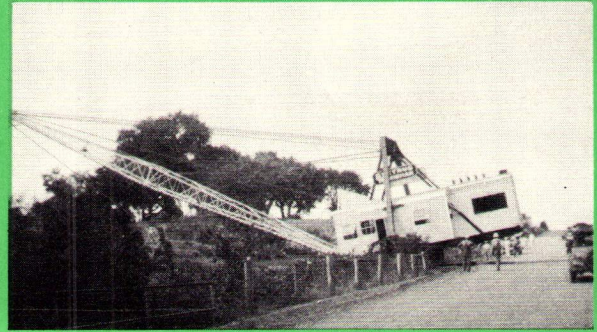
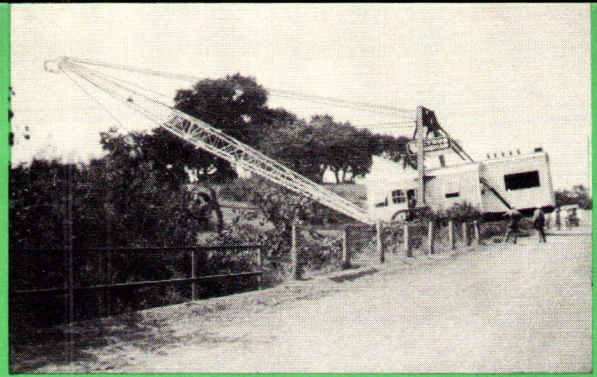
The two cam-operated walking shoes work in unison. They are carried high above the ground while the machine digs. When moving, both shoes are lowered simultaneously, and part of the weight is transferred from the base to the shoes. The tilting lift breaks the suction of soft ground.

Because the front edge of the base rises before moving forward, it is lifted over the rim where it has packed the earth, also over ordinary obstructions on the ground. The flexible pivoting of the shoes also adds to the Bucyrus-Monighan's easy moving-ability over rough ground.

The area of the base is so large that the machine can move and operate on any ground that will support a man. The 5-W weighs approximately 340,000 pounds including bucket. While digging, the 452 square feet of base provides bearing pressure of only 5 to 6 pounds per square inch. As the machine moves, a part of the load is transferred to the shoes which have liberal bearing area of 200 square feet.

Raised above the ground while the machine digs, the walking shoes swing free with ample clearance above the ground. When moving, the shoes are placed on fresh, untrodden ground, and, where the "going" is extremely soft, if the shoes show a tendency to sink in too far, supporting material can easily be placed beneath them. The cleated shoes with their long strong hinge to the track frame, hold position firmly, giving full 6-foot steps to each moving cycle.

The 5-W needs no steering mechanism. The machine travels in whatever direction the walking shoes are pointed. The direction is changed by merely swinging the revolving frame. This is why Bucyrus-Monighans can side-step and make abrupt turns around and away from obstacles, or move back and forth across the work to complete extra wide cuts without waste time. This ability to side-step also permits you always to work the 5-W in the most effective digging and spoiling position, and to utilize the advantage of a short-angle swing.



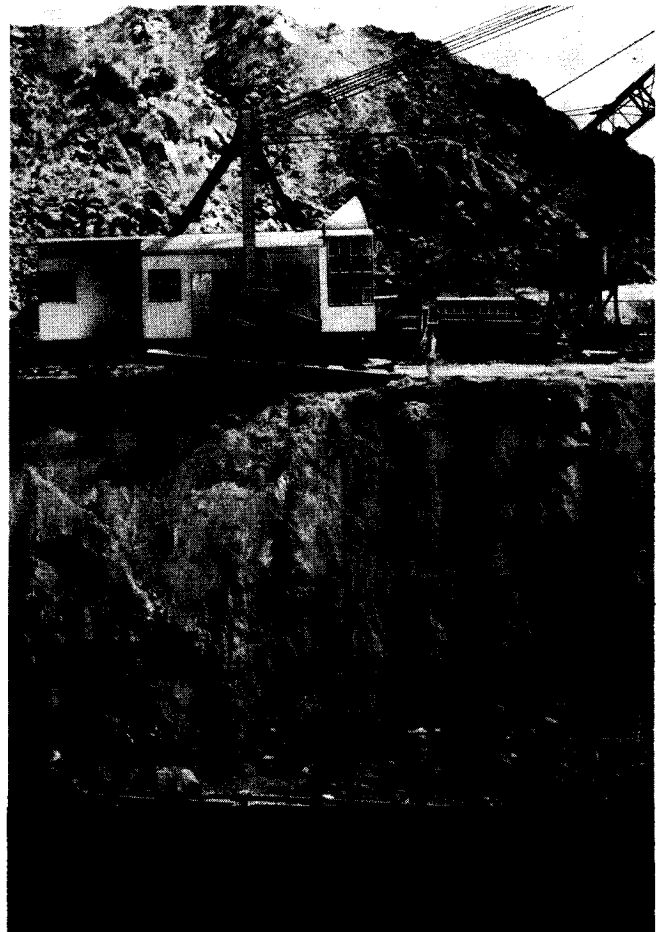
Strong, Simple Traction . . . Positive in Action . . . Proven on Hundreds of Successful Machines

THE traction machinery of the Bucyrus-Monighan walker is extremely strong and simple. When walking, a positive jaw-clutch connects the driving-pinion with the drag drum-shaft. The pinion drives the large bull-gear of the walking-shaft which rotates the cams on its squared ends. As the cam rotates in its track-frame it moves a crank-pin carrying a roller (mounted on the cam opposite the shaft) up and down in a vertical slot in the frame. The combined action of the double flanged cam on the track frame with the controlled position supplied by the crank-pin gives the desired pick-up, idling-travel, lifting-action, and forward-carry of the shoes. The action of the eccentric cam on the track raises and lowers the shoe. The action of the cam and crank-pin move the machine forward when the shoe contacts the ground, and the crank-pin moves the shoe forward when in raised position. A spring-set brake holds the shoes in raised position while digging and is automatically released ~~oil hydraulically~~ ^{by air} when the driving clutch is engaged.

Cam tracks and cams give smooth lifting and moving action. The tilting lift at the beginning of the step is easily made without shock; the carry is made smoothly and without jerking; at the end of the step the machine is lowered gently and the entire weight transferred gradually to the base. The smooth moving-cycle prevents shock in the traction machinery or main machinery. There is very little wear because no rotating or moving parts touch the ground. Note also the simplicity and close-coupled strength of this construction and the minimum of moving parts involved.

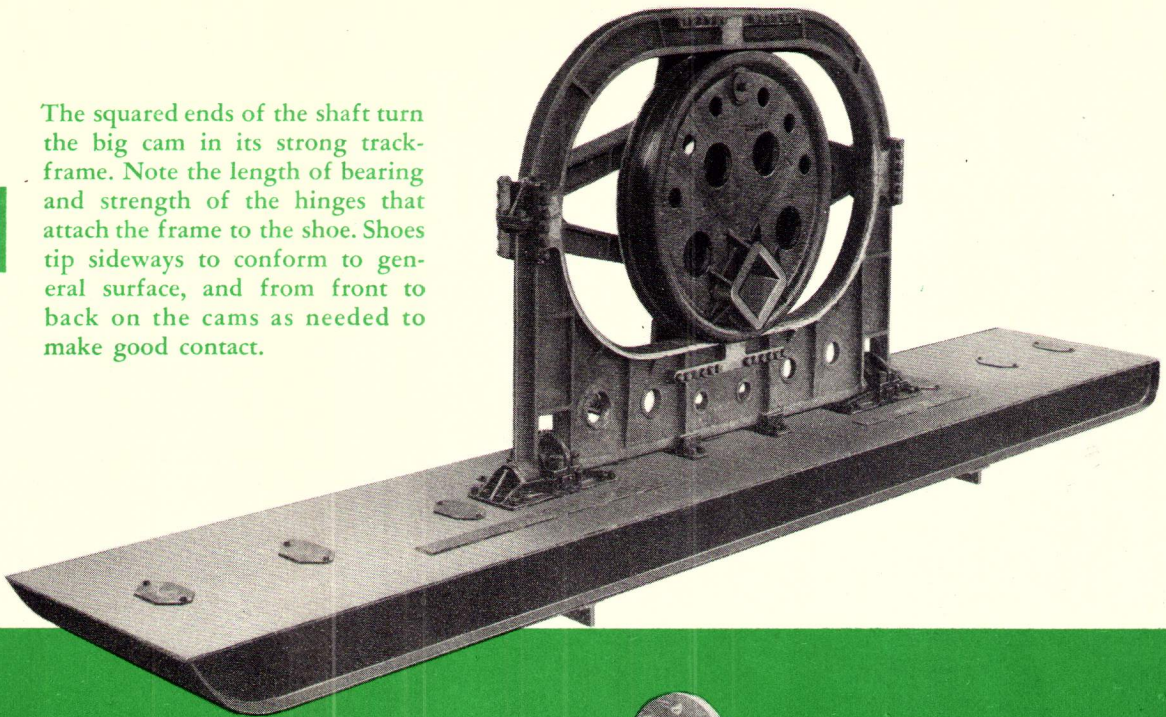
The weight lifted in moving is distributed along nearly one-third the length of the shoe by the four bearings between shoe and track frame. This exclusive Bucyrus-Monighan construction avoids the concentrated load imposed on shoe and connection in the single-pin-connected-linkage type of walking device, and consequently reduces wear. In addi-

tion, the long spread between connecting bearings on the 5-W assures that the shoe will be set on the ground parallel with the revolving frame and the line of travel. Where the surface is so uneven that one shoe contacts the ground before the other, there is an inevitable tendency to slew the machine, imposing considerable twisting force on the low shoe. With the 5-W cam construction and the long spread between connections, this force is widely distributed and not concentrated on a single pin or connection. The exclusive Bucyrus-Monighan rolling cam gives an easy *cushioned* walking action which has thoroughly proven its effectiveness and low maintenance requirements. Strong, well-balanced and simple, 5-W traction is smooth-acting, easy to maintain and far superior to any other type of walking device.



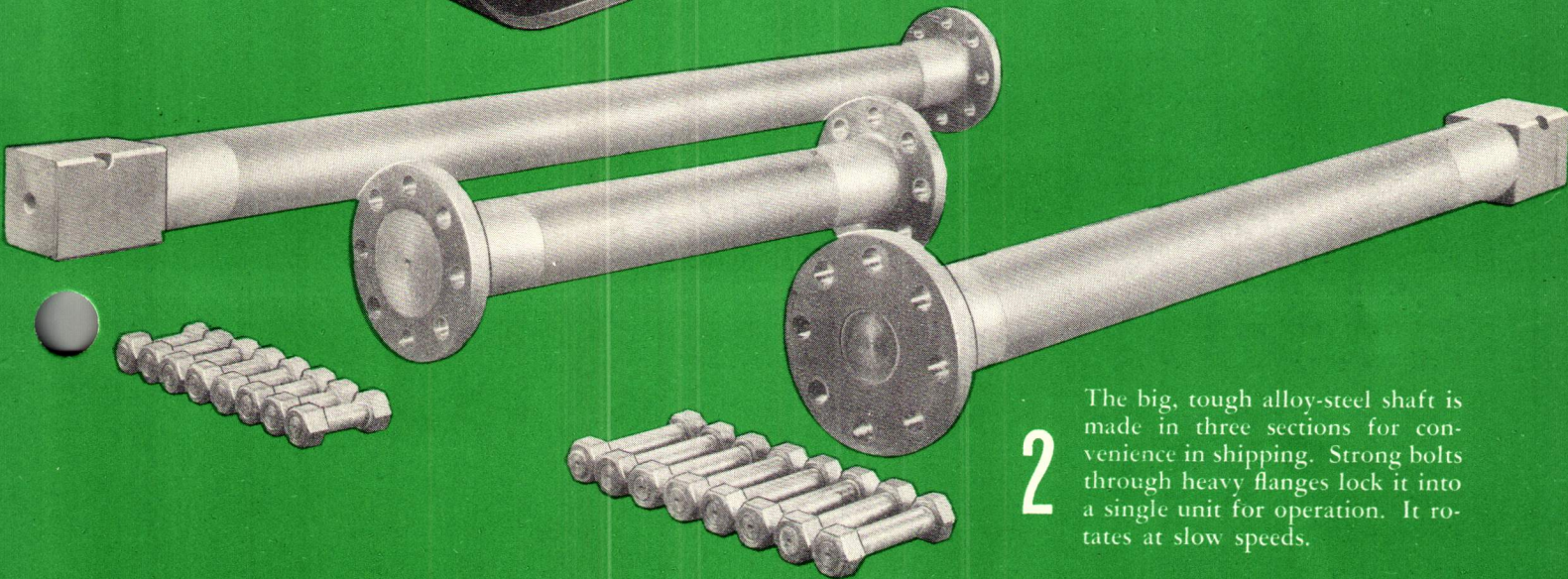
1

The squared ends of the shaft turn the big cam in its strong track-frame. Note the length of bearing and strength of the hinges that attach the frame to the shoe. Shoes tip sideways to conform to general surface, and from front to back on the cams as needed to make good contact.



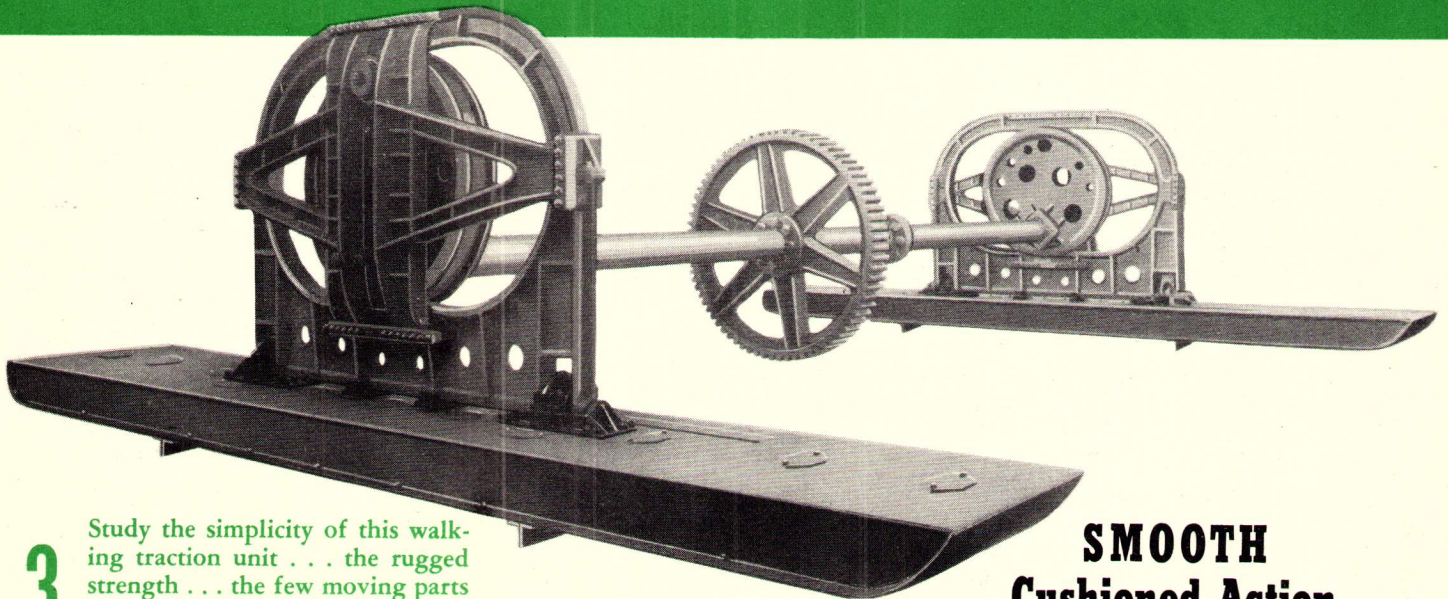
2

The big, tough alloy-steel shaft is made in three sections for convenience in shipping. Strong bolts through heavy flanges lock it into a single unit for operation. It rotates at slow speeds.



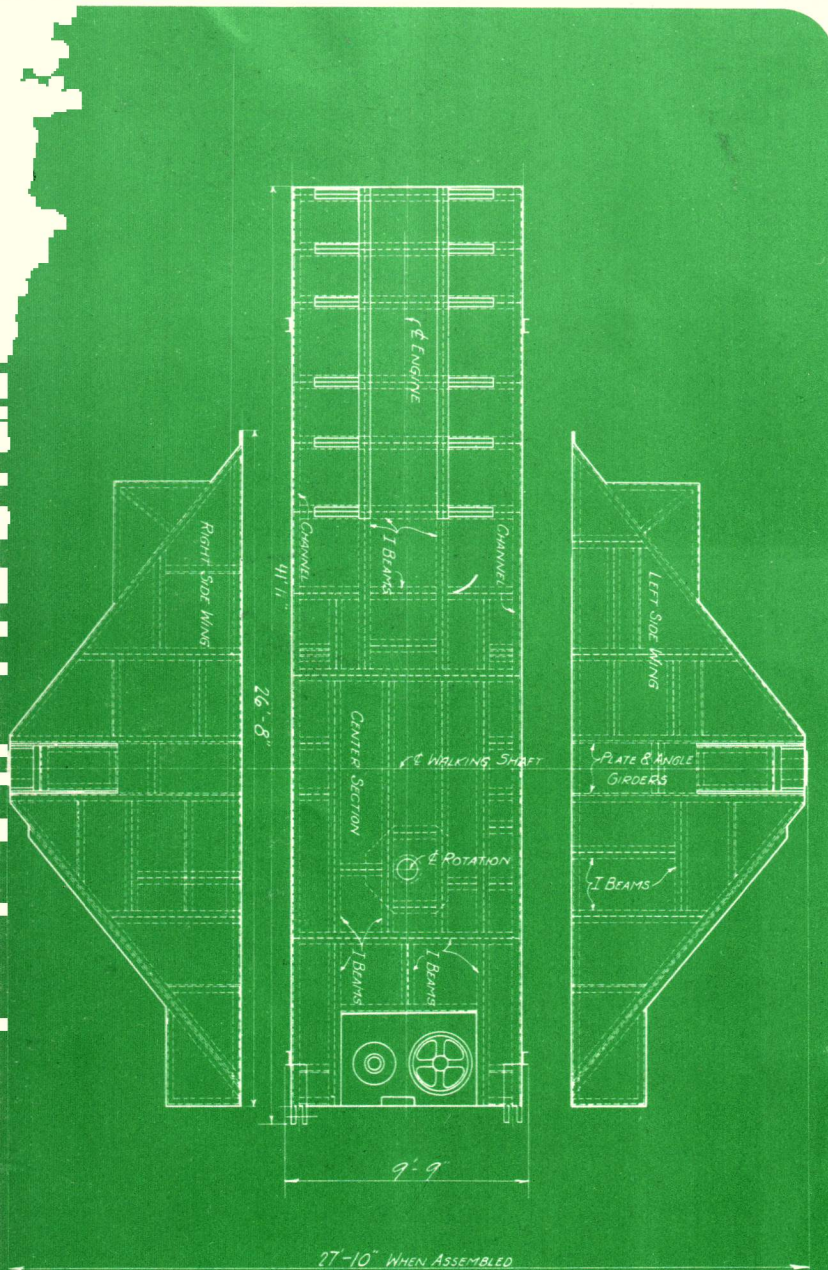
3

Study the simplicity of this walking traction unit . . . the rugged strength . . . the few moving parts . . . all of them well up out of the mud and grit.



**SMOOTH
Cushioned Action
with the rolling cam**

Easy to Ship . . . Main Machinery Stays in Assembly

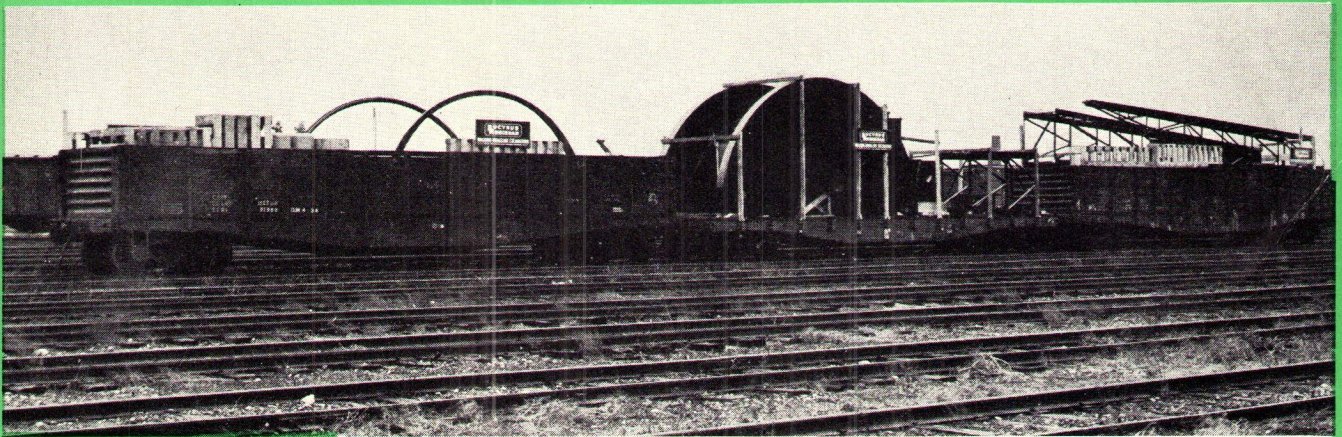


This diagram shows how the 5-W is knocked down for shipping in the U.S.A. Revolving frame extensions and walking traction units are disconnected at convenient joints. Side wings, which are separate units, are unbolted. Center section, containing main machinery, is shipped as a unit, without disassembly.

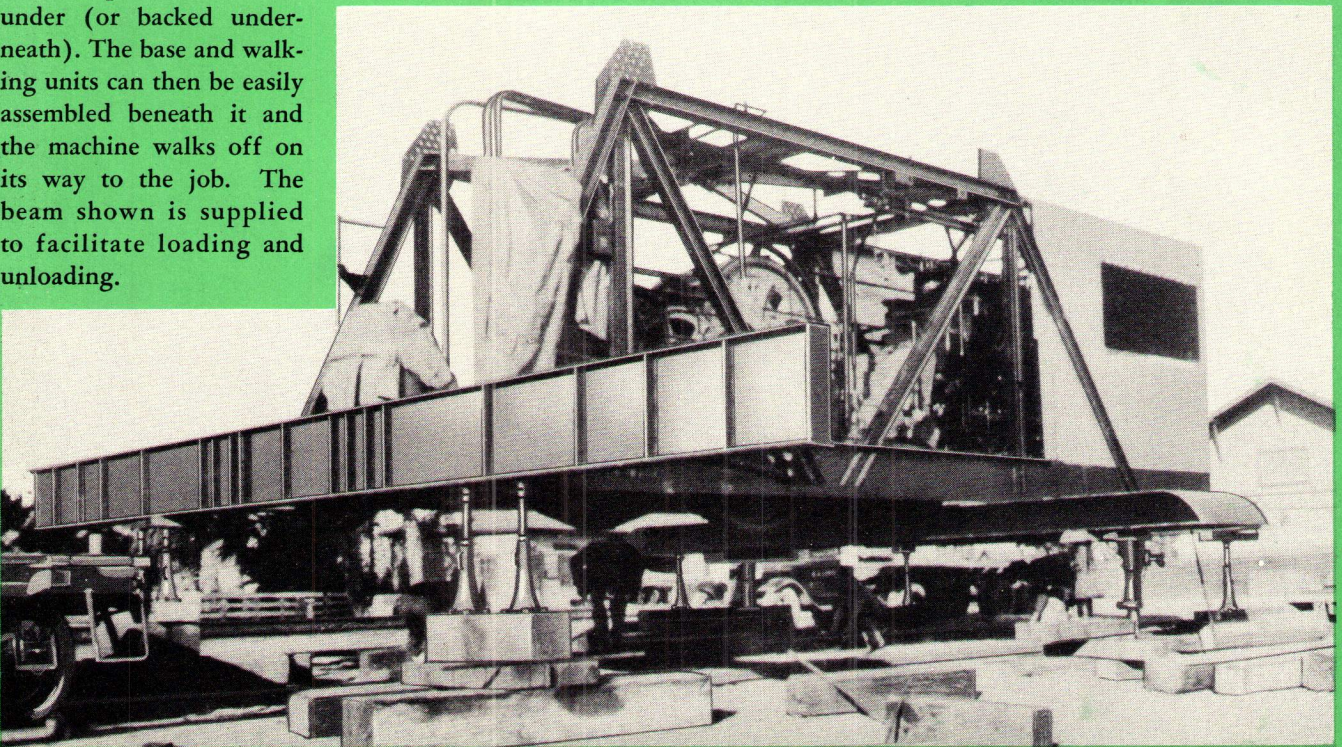
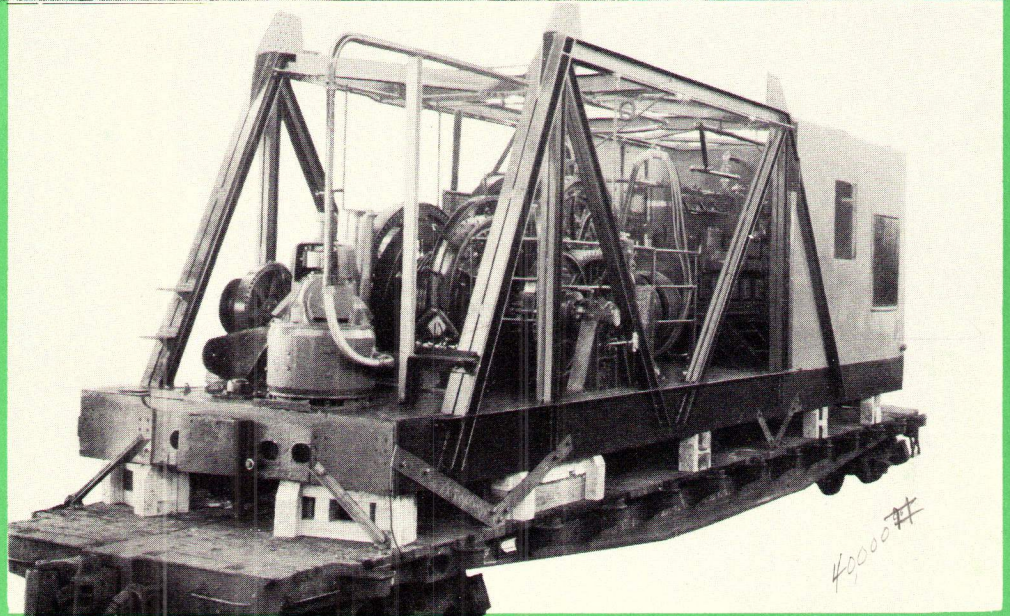
WHEN one job is finished and you are ready to move to the next, you walk the 5-W to the nearest siding. Standing on the loading track the 5-W lowers the boom and bucket to a double flat car (boom may be easily disjoined and stacked for shipment on a single car, if desired). Side-wings are unbolted from the base, revolving frame extensions and walking traction units are disconnected at convenient joints, the A-frame is lifted out (if clearance requires). The center section of the revolving frame, with all the main machinery in place, is then jacked up sufficiently to clear the deck of a flat car and the center section of the base is skidded out and loaded on another car, a flat is backed under the center frame and main machinery unit, which is lowered to the deck and is then ready to go on its way. At destination the process is reversed and, when reassembled, the machine walks off on its way to your next job.

Note that no main machinery units need be disassembled. This speeds up the entire operation and keeps your machinery always in correct alignment and adjustment. Only comparatively light units need to be handled during erection. When sold for export, the 5-W is especially built so it is easily knocked down for ocean shipment.

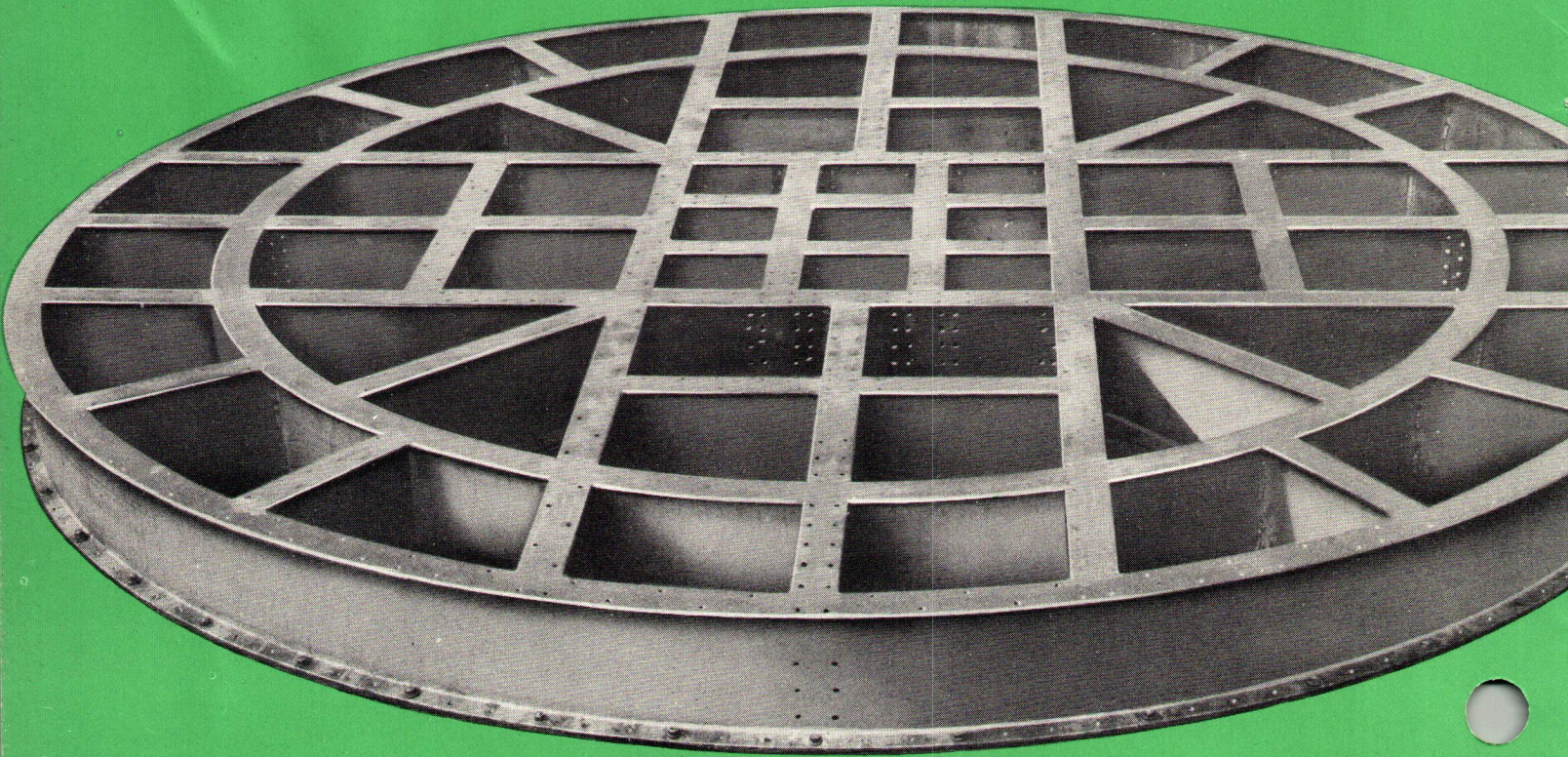
This shipping convenience is especially important for contract work and adds considerably to the resale value of the machine when-and-if you wish to dispose of it.



With the 5-W shipping is easy for such a large machine. The main machinery all stays in assembly and alignment. Five U. S. railroad cars carry the entire machine. Loading, unloading and erection is simple, convenient and quick. The main part of the revolving frame with machinery mounted in place and under cover loads on one car. When unloading (or loading), the center section of the revolving frame with main machinery units in place is jacked up and the flat car pulled out from under (or backed underneath). The base and walking units can then be easily assembled beneath it and the machine walks off on its way to the job. The beam shown is supplied to facilitate loading and unloading.



The Big Area Base Is Heavily Plated and Strongly Reinforced



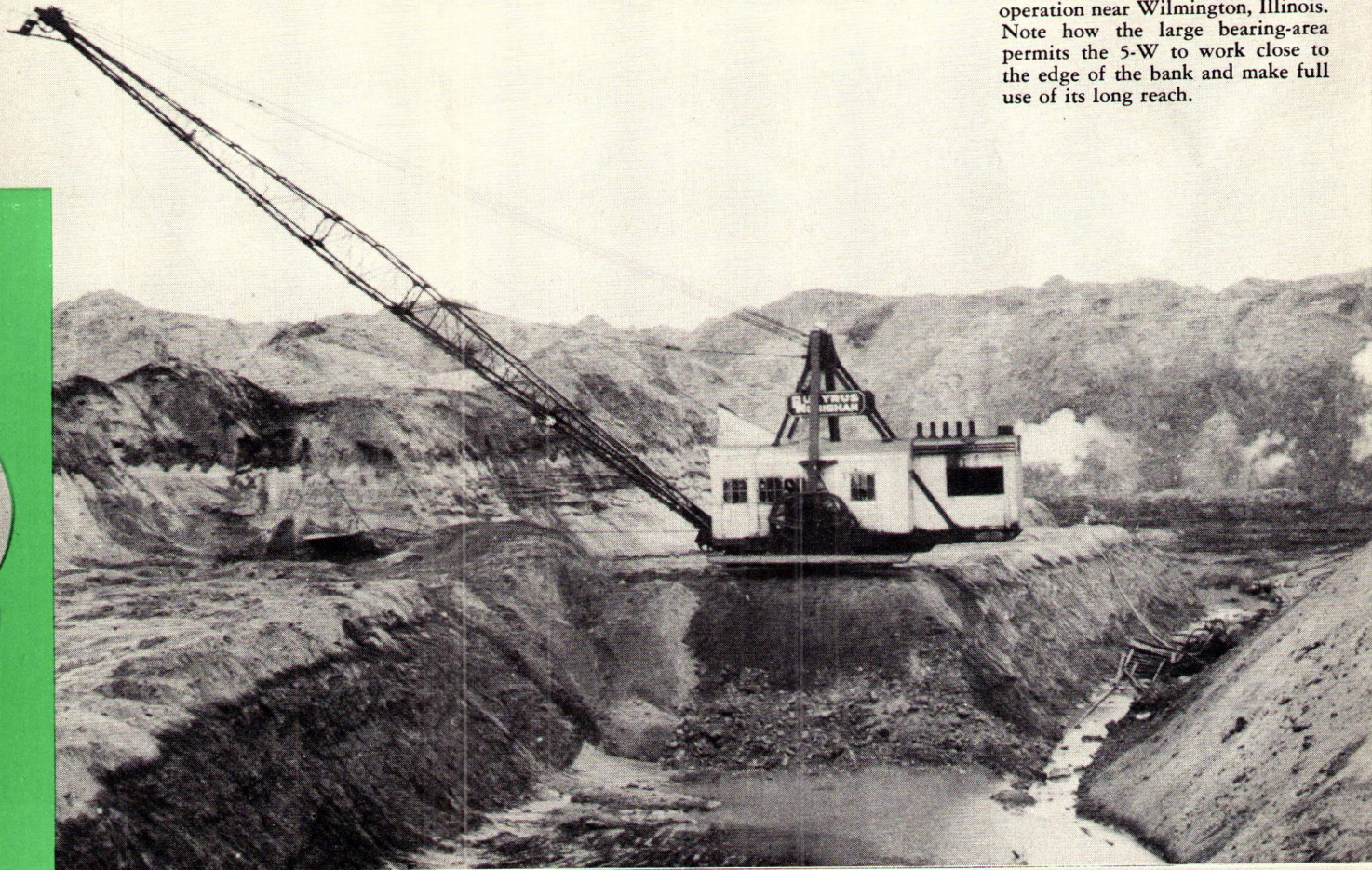
THE base (or "tub") is 24 feet in diameter and 21 inches deep. A circular 20-inch I-beam forms the outside member with a series of cross members welded into a strong rigid frame. Top and bottom are covered with heavy plate. A 104-pound steel rail, accurately curved to form the roller circle, is securely bolted to the inside circular I-beam. The swing rack is made up of cast steel sections that are securely bolted to the tub framing. Both swing-circle and swing-rack are amply strong and have proved their ability to stand up under long hard field service. Both contribute materially to the strength and rigidity of the base.

The roller circle is of the floating type consisting of forty, 10-inch, double-flanged rollers of chilled iron held in position by large-diameter spacing

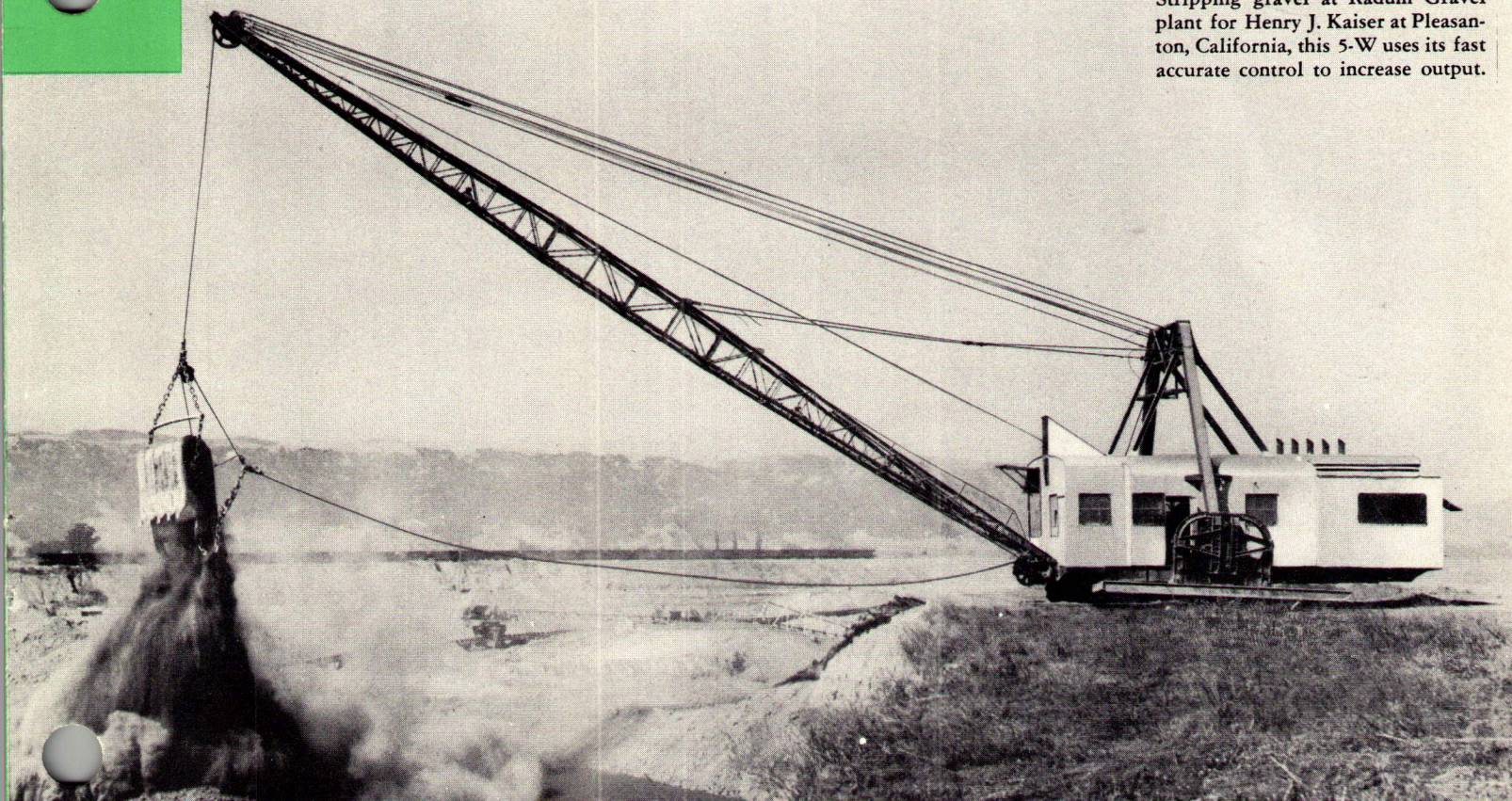
pins between the two channels of the roller circle frame. The rollers form a giant roller-bearing between the two rail swing-circles, one on the base and the other on the revolving frame. The loads are well distributed over the large diameter (18') circle and the rollers easily follow the rail in its long arc without skidding. Electrically driven and under Ward-Leonard control, the swing of the 5-W is easy, smooth and consumes a minimum of power.

The strong steel centering casting has a substantial base which is securely bolted to the closely grouped I-beam of the center frame. The pintle is machine turned for accurate fit and carries an adjusting nut at its upper end. As proved in actual service, this base is amply strong for moving and operating over rough rocky terrain.

Modern benched stripping cuts costs in handling deep overburden at this Northern Illinois Coal Company operation near Wilmington, Illinois. Note how the large bearing-area permits the 5-W to work close to the edge of the bank and make full use of its long reach.



Stripping gravel at Radum Gravel plant for Henry J. Kaiser at Pleasanton, California, this 5-W uses its fast accurate control to increase output.



Simple, Economical, Power

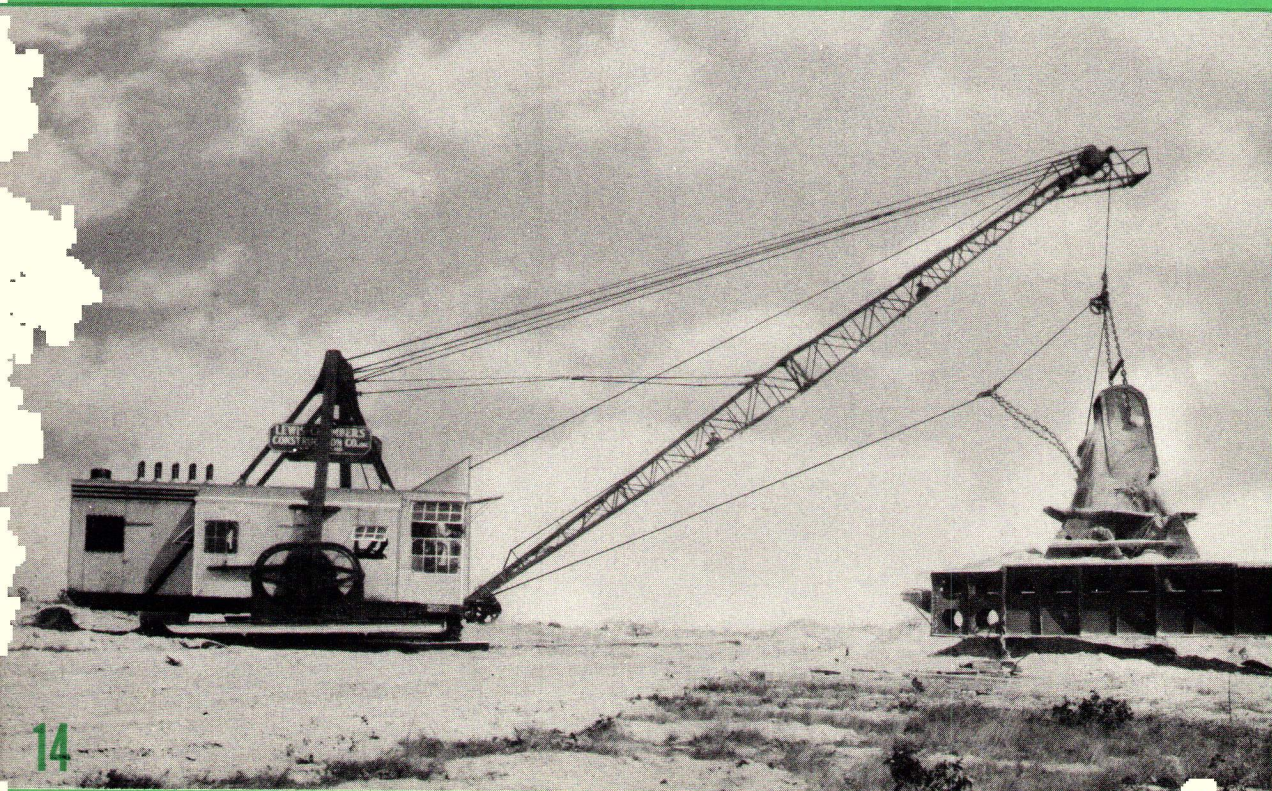
THE 5-W diesel is powered by a big, dependable, 6-cylinder, full-diesel, Fairbanks-Morse engine. The remarkable simplicity of this diesel, which is of the two cycle, airless injection, single-stage combustion type, assures steady dependable and economical performance in dragline service. Starting is by compressed air admitted to the cylinders in firing order. A small auxiliary gasoline engine driven compressor and storage tanks furnish the air.

Diesel fuel passes through pressure-tight filters before reaching the simple cam-operated injection pumps and also must pass through an edge-type filter at each injection valve. Scavenging air is forced through ports in the lower cylinder walls at the end of each stroke to thoroughly clean the burnt gases out of the cylinder.

Cylinders cast separately give easier cooling and more economical repairs or replacement. All parts of the entire engine are easily accessible.

Lubrication is completely automatic, and only inspection of the lubricating system and replenishment of the supply is necessary. Surplus oil is collected in a sump and forced through a pressure-tight filter to a separate sump from which it is recirculated. This not only assures clean lubricating oil, but also secures effective circulation while operating on grades.

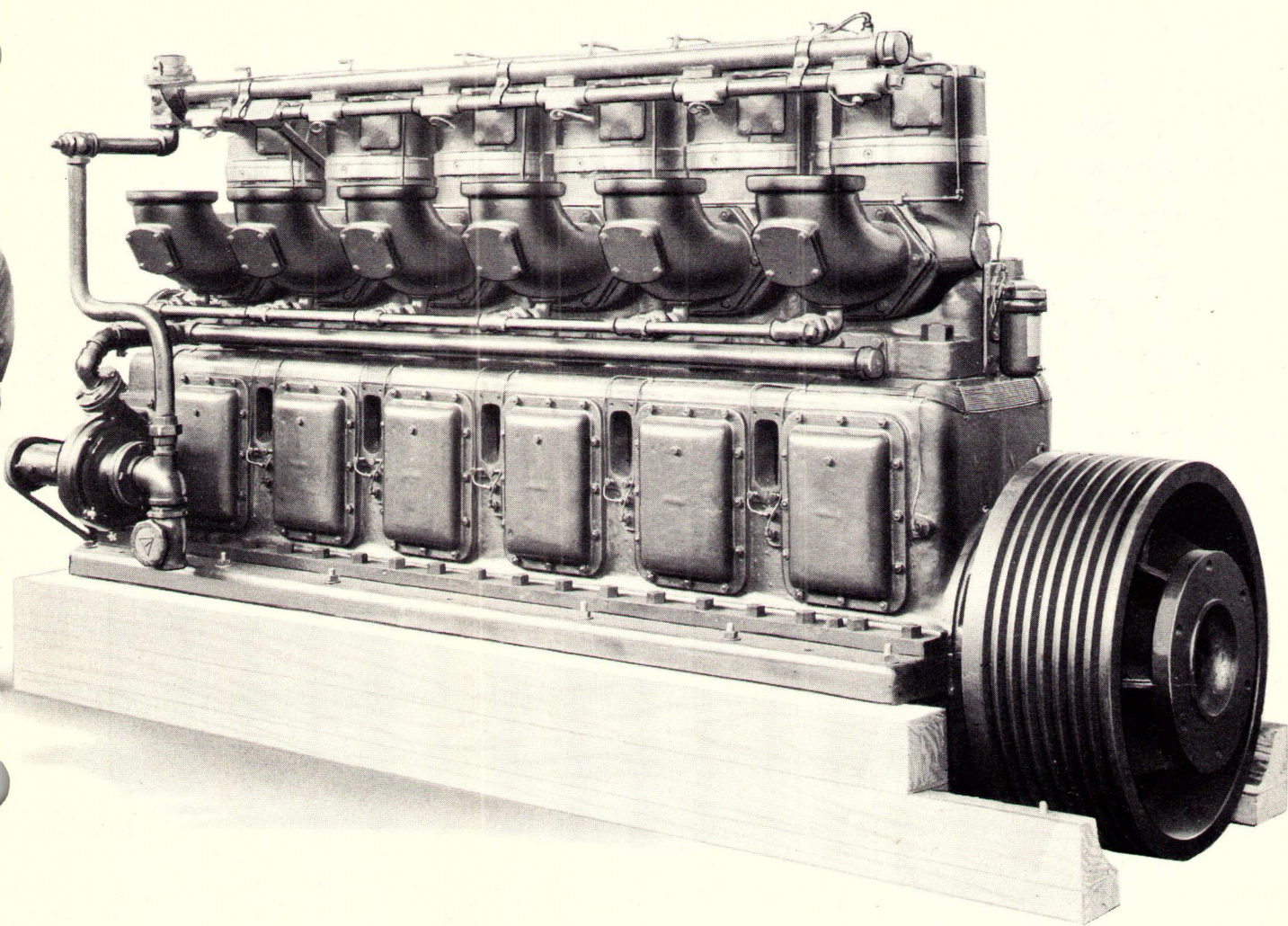
The 5-W electric for use on permanent or semi-permanent installations is powered with modern electric units especially suited for excavator service. It may be supplied with full Ward-Leonard Control or with Ward-Leonard controlled swing only.



Loading the traveling car hopper of the Bucyrus-Erie Bridge is another job where shows its ability to deliver marksmanship on a fast cycle. Lewis-Chambers Construction Company machine is here shown on the Florida Cross-Stat

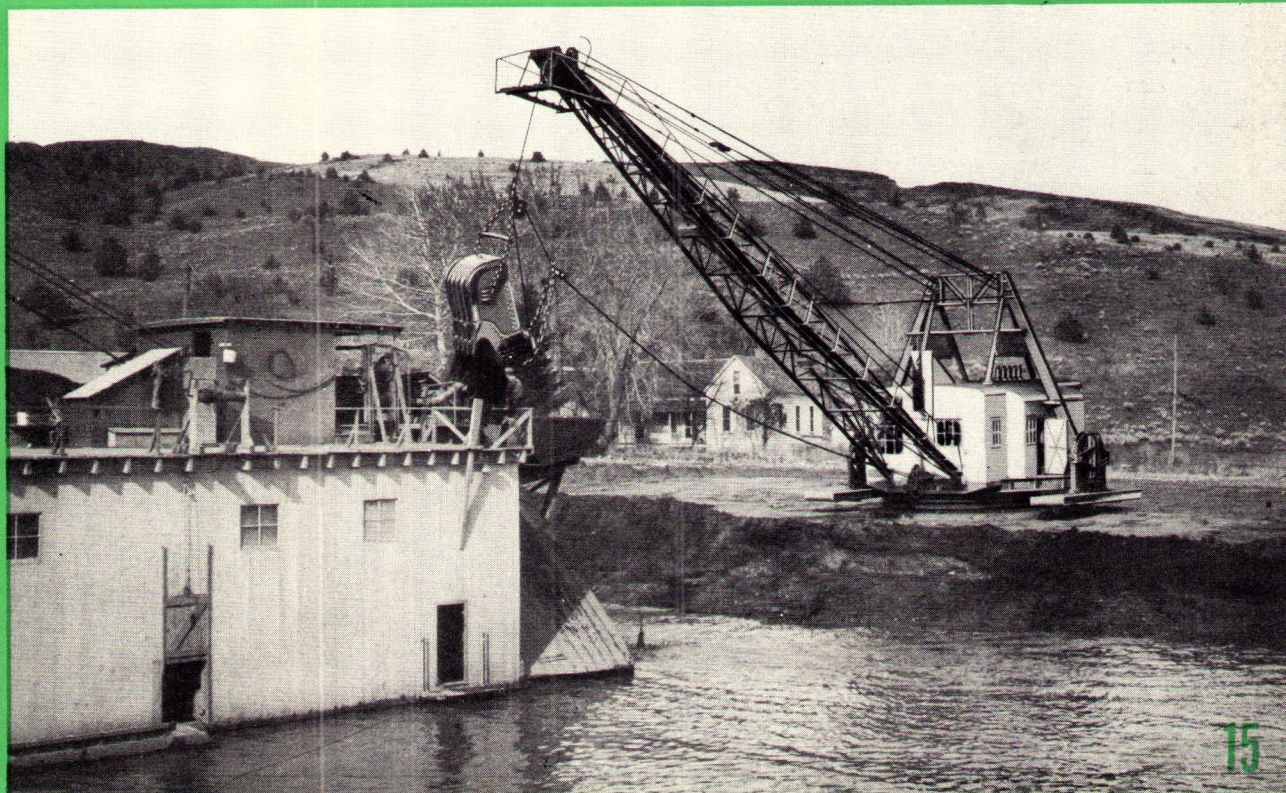
Gold
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Powerful ... Diesel or Electric



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is where you find it, but profit
acer mining is easier to make
the fast-stepping, fast digging
Bucyrus-Monighan loading the
. This is Ferris & Marchbank's
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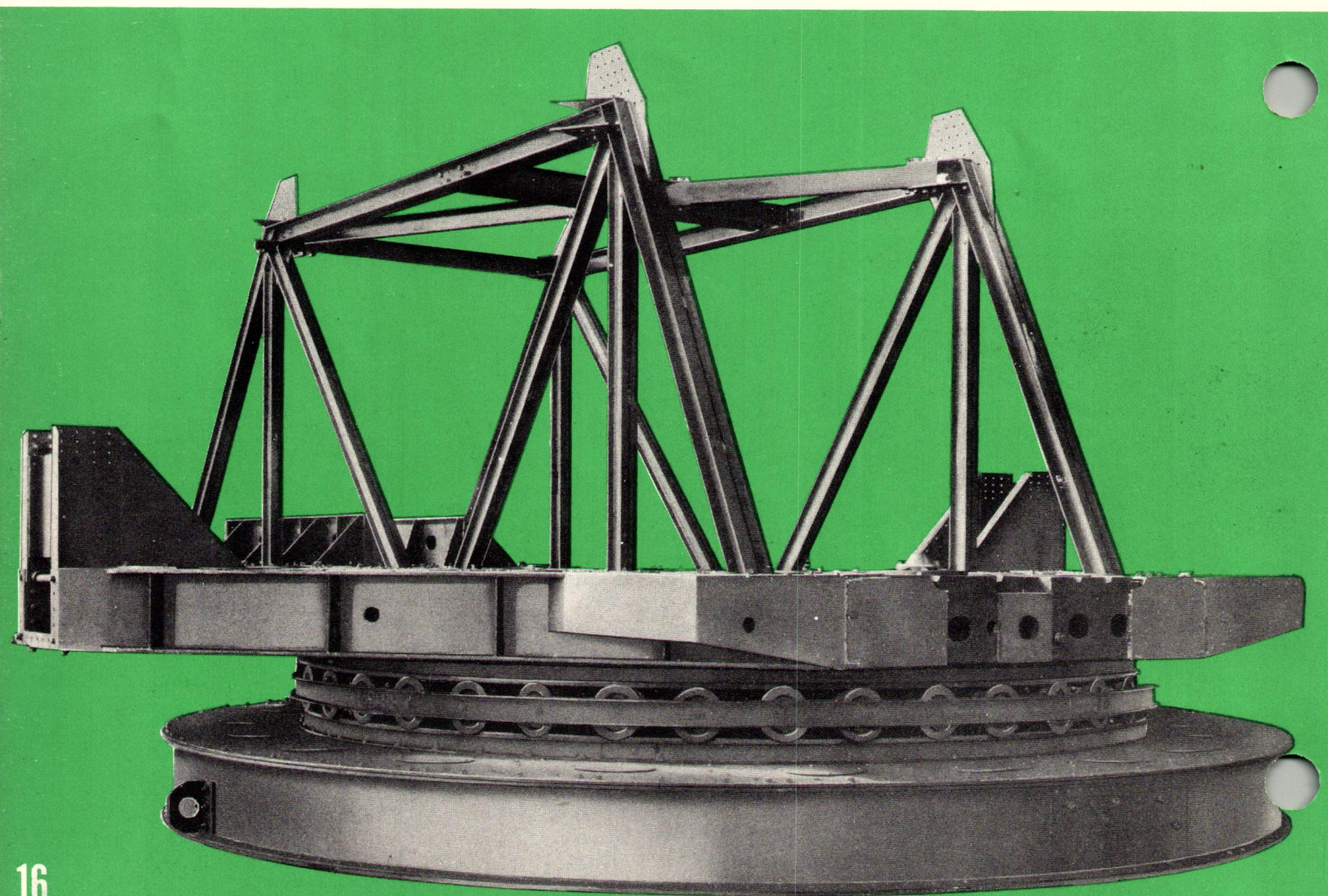


Strength of Rigid Foundation Stops Troubles Before They Start

THE strong simple revolving frame is made up of heavy I-beams *securely* welded together in rectangular and diagonal panels that provide strength where strength is needed. Dead-weight is eliminated. Strong plating is firmly fastened to the top and bottom adding to the box-section rigidity of the entire unit. The upper swing-circle of 104-pound rail is bolted to the bottom of the frame. The strong truss frame above the deck forms the lower part of the A-frame

and also is used for the framing of the house. This bridge-like construction adds strength and rigidity to the revolving frame distributing the stresses of digging and swinging evenly throughout the structure.

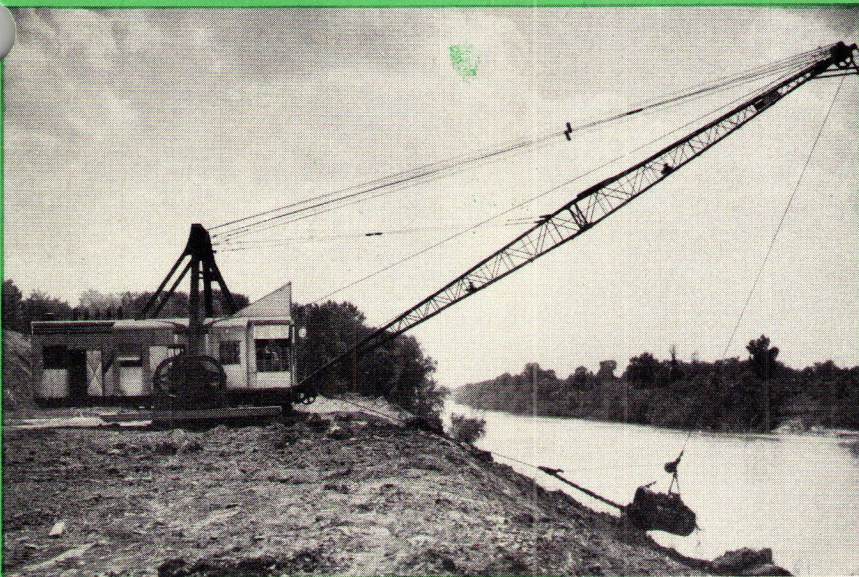
Toward the rear of the revolving frame are two hooks, which reach down to engage the base during the moving cycle. During normal digging operations these hooks are not in contact giving free swinging action. The hooks are only engaged when moving.



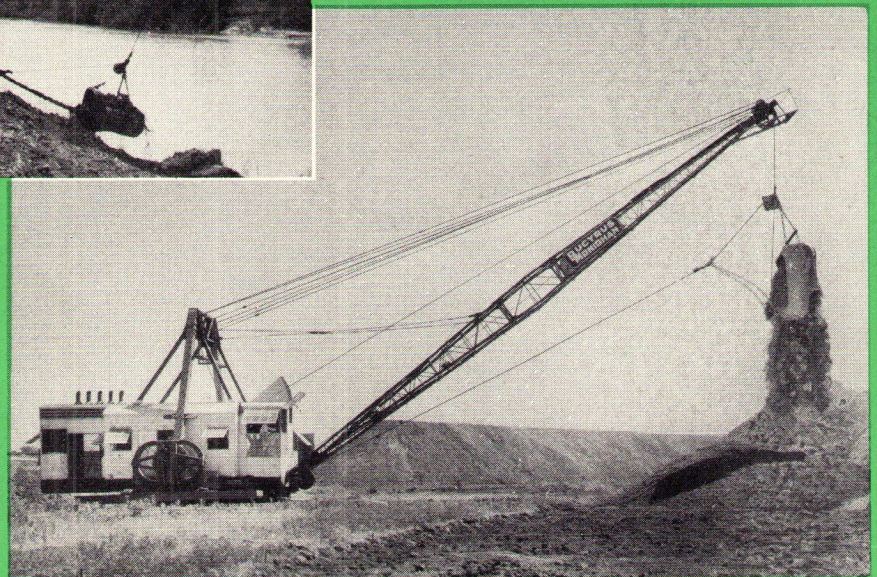
Ralph E. Davis uses this 5-W with 125-foot boom and 4-yard bucket on a drag-line-dredge gold-mining operation near Dillon, Montana.



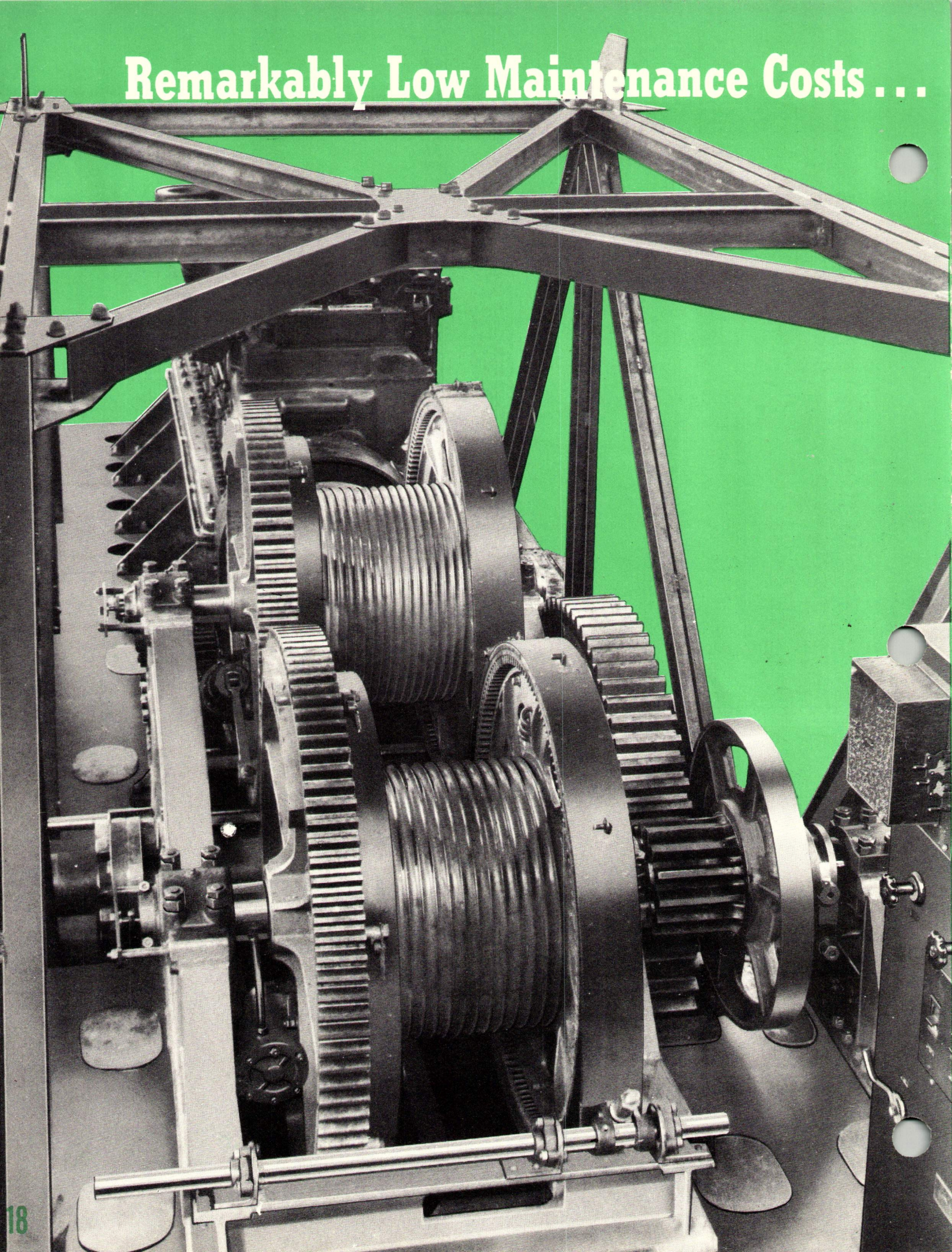
Rain or shine is working time for the 5-W. This machine is deepening and widening the Warrior River near Tuscaloosa, Alabama, on a contract of the Driver Company of Memphis, Tennessee.



Operators like the 5-W because there is so seldom any need for adjustments or repairs. This steady digging ability means bigger output and increased profits for you. This 5-W is excavating on the Loup River Project in Nebraska for Haas, Daughy and Jones of San Francisco.



Remarkably Low Maintenance Costs . . .



Gears Enclosed and Run in Oil...

Machinery Weight to the Rear

THE simple units of the 5-W Diesel main machinery are well arranged for convenience of operation and to give maximum counter-balance effect. Heavy units are concentrated at the rear, back of the center of rotation. Complications involved in long mechanical transmission systems are avoided by generating electric power at the engine to drive the electric swing motor. The spiral bevel gears of the transmission that drive the big hoist and drag drums are fully enclosed and operate in oil. Both drums are grooved and mounted on drum-shafts driven through large gears. Big outside-band brakes are operated from foot-pedals at the operator's stand. Air cylinders supply power for taking up the brakes, but final application is controlled by the operator's foot, giving him the "feel" necessary for fast, smooth operation. This highly developed braking process is a patented feature.

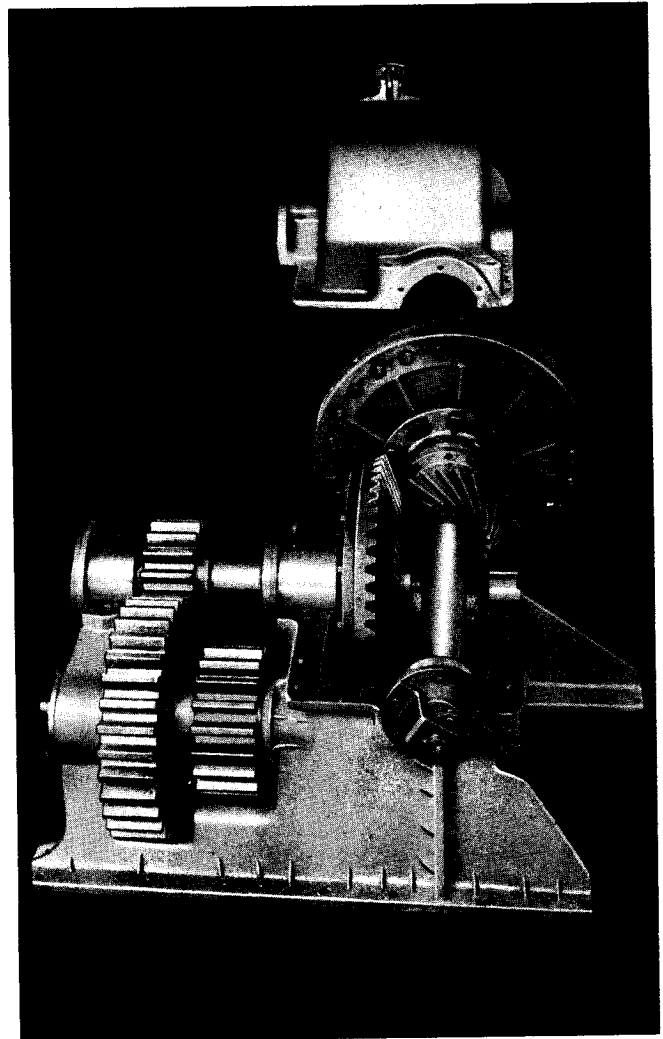
The transmission unit consists of a spiral bevel gear and pinion mounted on anti-friction bearings contained in an oil-tight housing. The single-disc dry-plate clutch is controlled from the operator's stand. The bevel-gear shaft, mounted in anti-friction bearings, is extended beyond the housing and carries a pinion which drives the drum gear train.

The swing machinery is contained in a unit-base built into the front end of the revolving frame. The unit consists of spur-gear reductions from the vertical motor to the vertical rack-pinion shaft, which are enclosed, run submerged in oil, and, with the exception of the rack-pinion shaft, are mounted on taper roller bearings. With the exception of the motor and the rack pinion, the entire swing machinery is contained within the base where it is completely protected.

Strength all through the machinery contributes to the Bucyrus-Monighan's remarkable reputation for trouble-free performance. This freedom from most of the breakdown delays usual in dragline

work, plus the all-weather traction, not only means steady output that adds very materially to profits but also takes a great deal of the "grief" out of the dragline business.

Not only does the electric-powered swing greatly simplify the transmission of power to the swing unit located at the front of the revolving frame, but it also simplifies the swing machinery and eliminates most of the adjustments and maintenance usually required on swing units. No clutches or brakes are required. The Ward-Leonard control gives the operator positive and accurate control of the swing with fast acceleration and quick plugging.



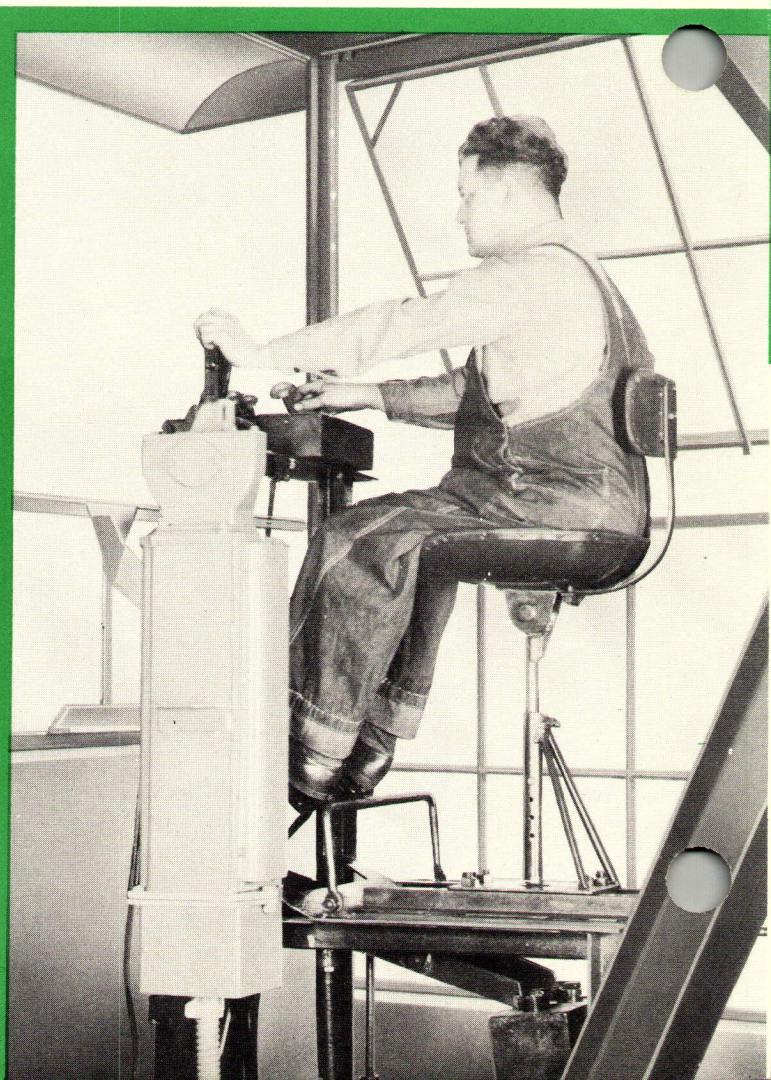
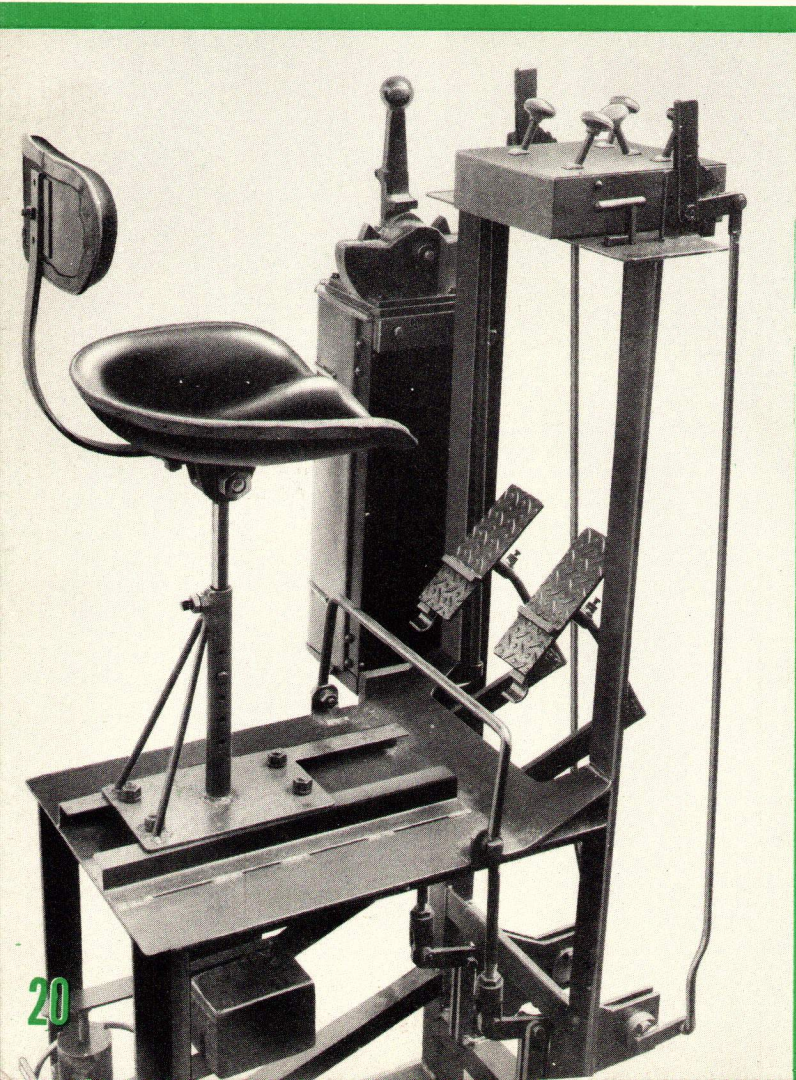
Easy Accurate Control for Speed . . .

Wide Tubular-Laced Boom . . .

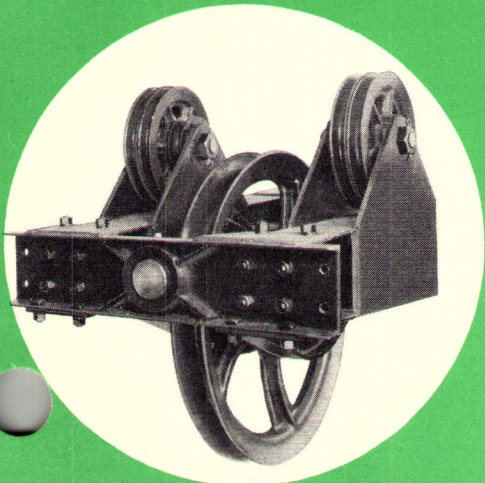
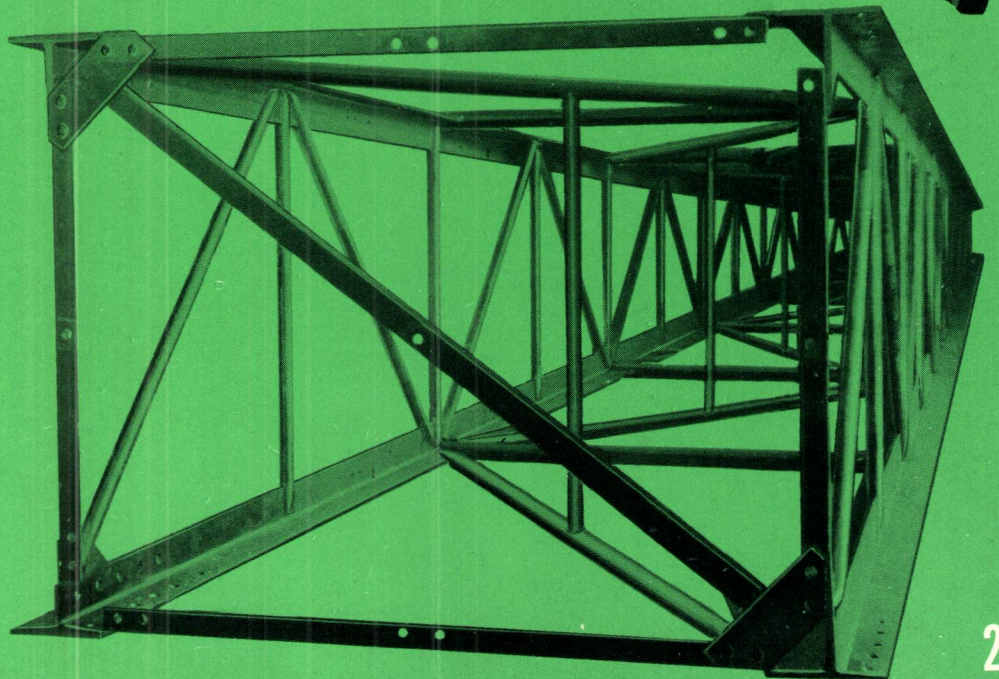
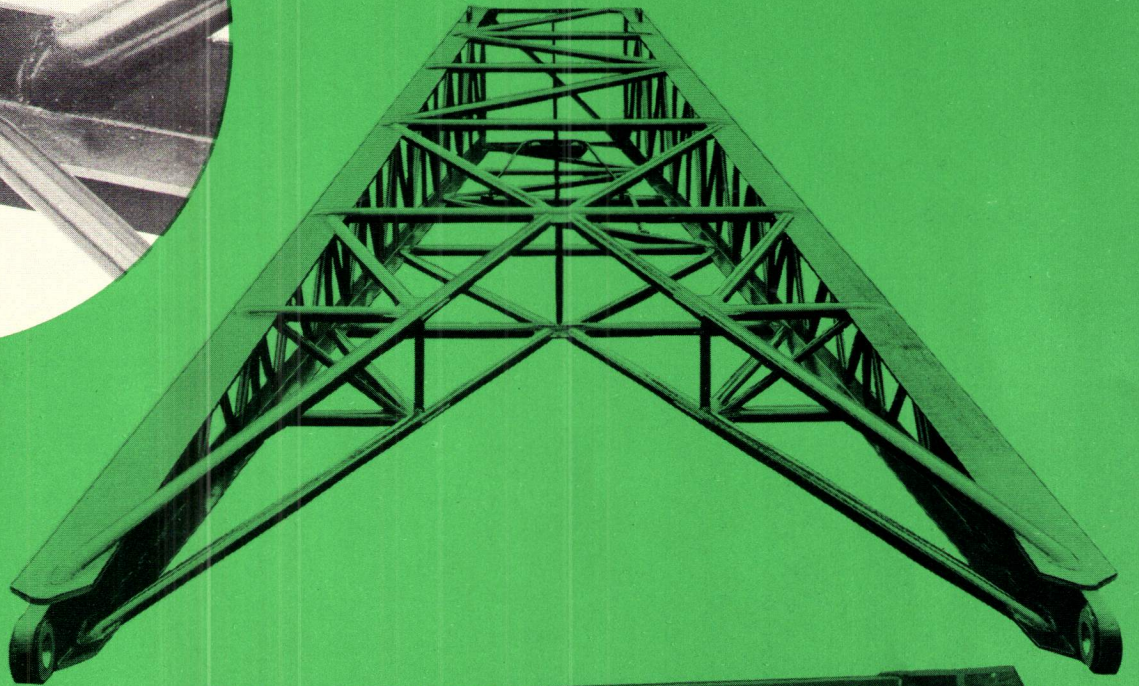
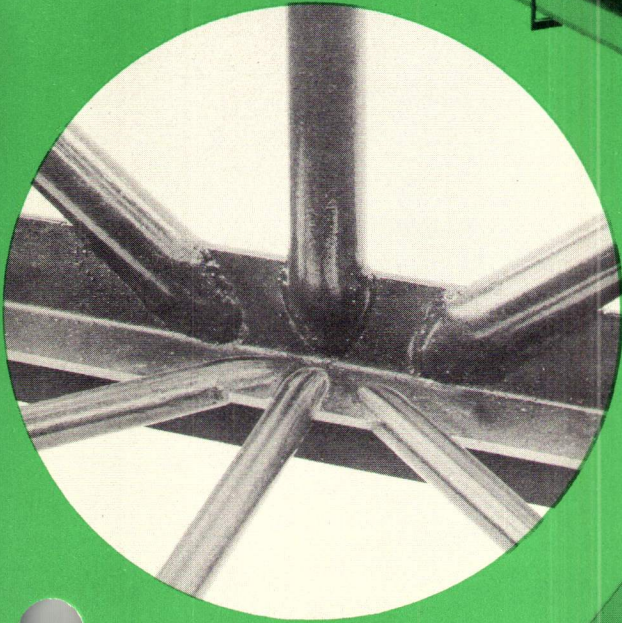
Worm-Gear Boom Hoist

FULL vision, easy ~~hydraulic~~^{air} control, strong smooth-working linkage, and adjustments that "stay put", make it easy for the 5-W operator to apply all the speed built into the machine. He is as fresh at the end of the shift as at the beginning — there is no end-of-shift slowdown on the 5-W. Hand-levers control valves that actuate the clutches. The control action is quick, positive, smooth, and dependable. All parts of the control system are simple and easy to keep in accurate adjustment.

The boom, of all-welded construction, consists of four T-shaped chord members, latticed on the four sides with tubular steel members. This high quality construction plus the extra wide shape makes this boom ideal for dragline service. The wide lower-end is plated with heavy steel to furnish a strong boom-foot. The boom foot is pin-connected to the strong cast-steel brackets on the frame. The boom-hoist is operated by a self-contained, worm-gear-driven drum. The boom-hoist is reversible and a safety band-brake prevents creeping.



The Monighan-type of wide, all-welded tubular-laced boom has made dragline history around the world. This construction is more expensive than that of the ordinary dragline boom but its great strength and light weight plus unique ability to take fast-swing stresses have made it famous for long-life and low maintenance cost in high-speed operation.



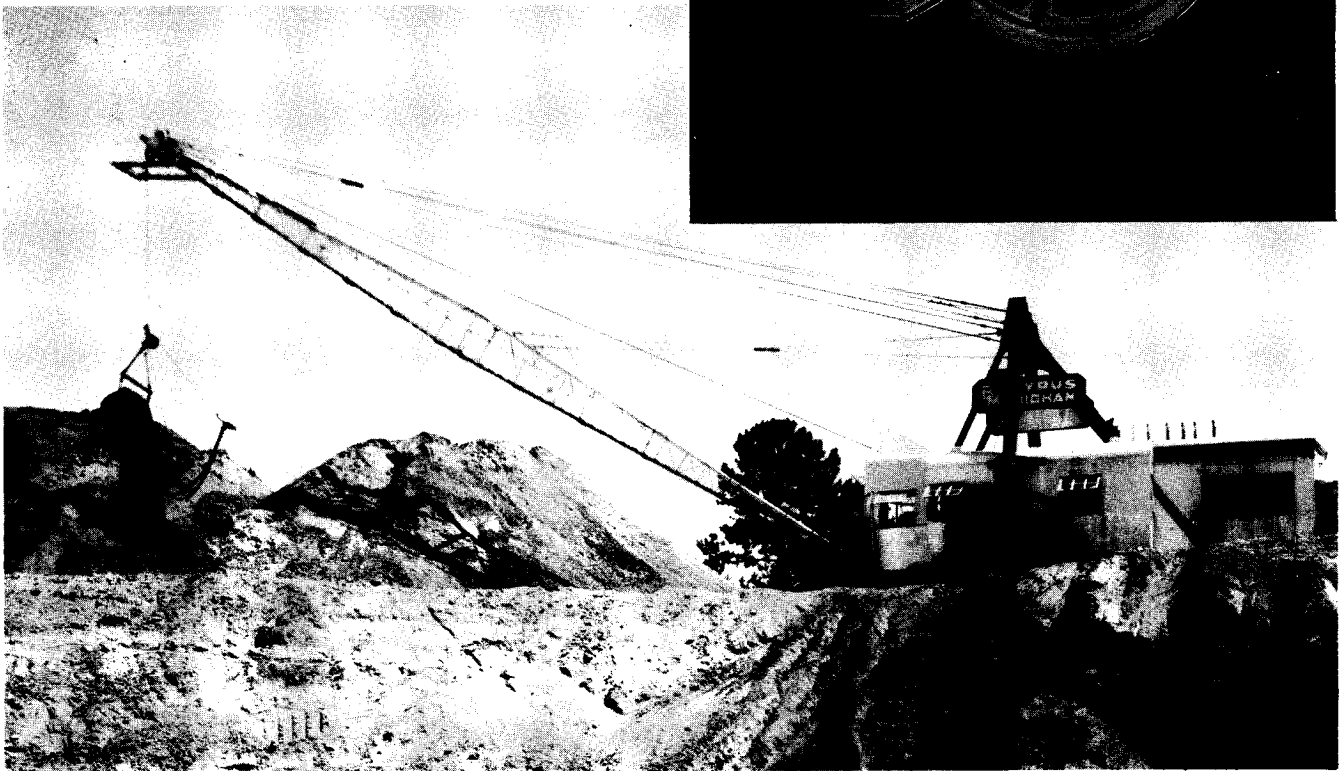
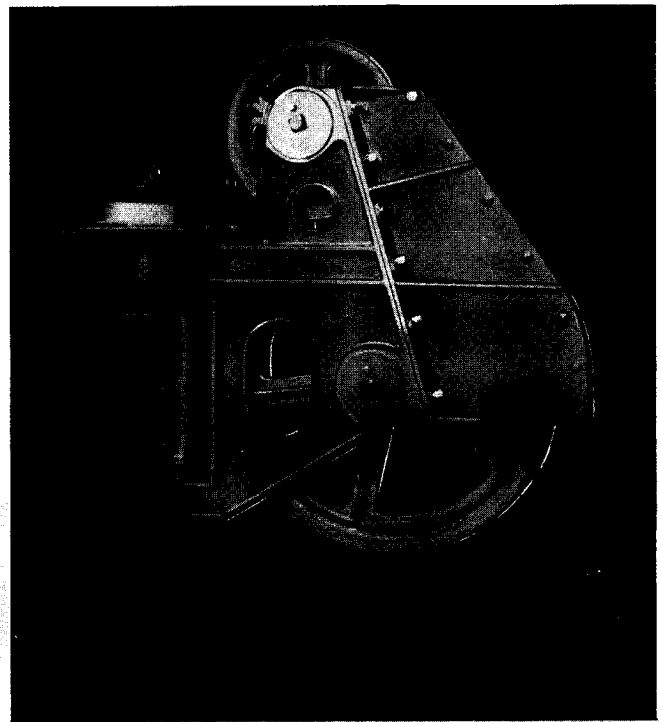
Fairlead Follows Rope Freely ...

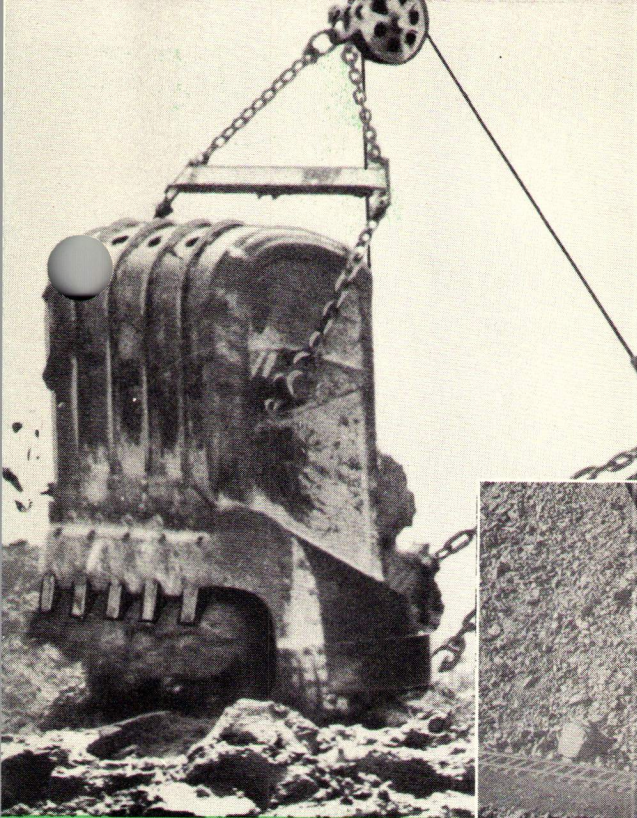
Red Arch Bucket Increases Output

THE 5-W universal fairlead consists of two horizontal and two vertical sheaves in a sturdy swivel-frame that swings laterally in line with the lead of the drag rope. The alloy steel sheaves have turned grooves for the rope. All bearings are protected against dirt. Renewable guards lead the rope onto the sheaves.

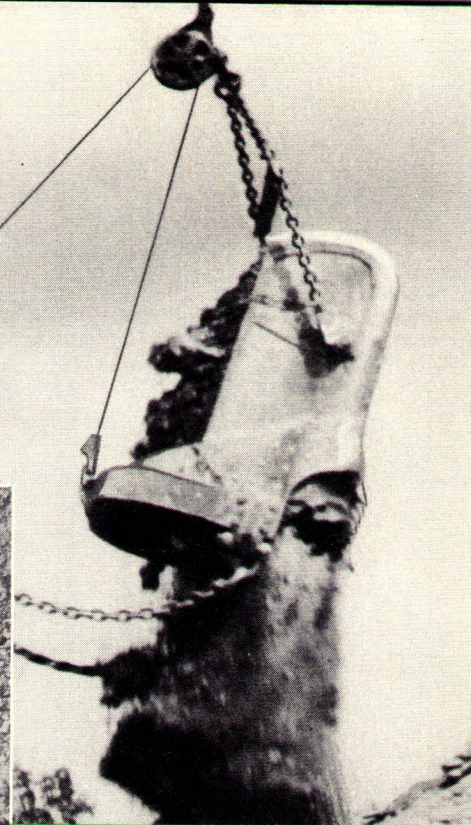
Standard equipment on the 5-W includes a fast-digging Bucyrus-Erie Red Arch dragline bucket of suitable size and type for the digging to be handled. Red Arch buckets provide low-cost high-output performance that goes with the 5-W's splendid digging ability. They carry big heaping loads, waste no power or speed on deadweight, and give excellent, dependable service. All parts are of design and materials that give proven long-life and low maintenance. The quickly renewable

and reversible inserted Tiger teeth of forged high-carbon steel, annealed and heat-treated, are easily resharpened. Many owners order an extra light (and therefore larger) bucket for use where digging permits. Its extra capacity makes it well worth while to carry this extra bucket on hand and to change over to it whenever light material is encountered.

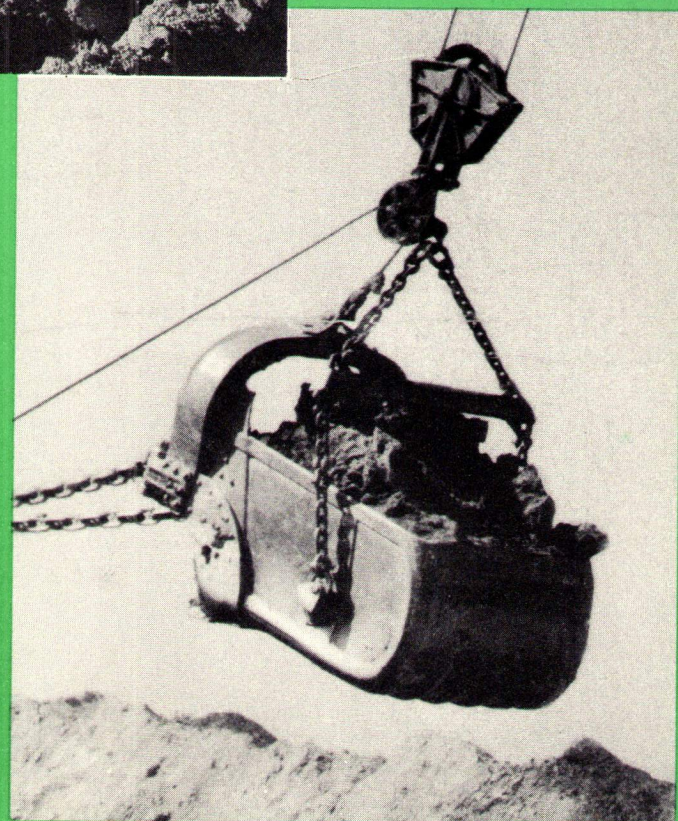
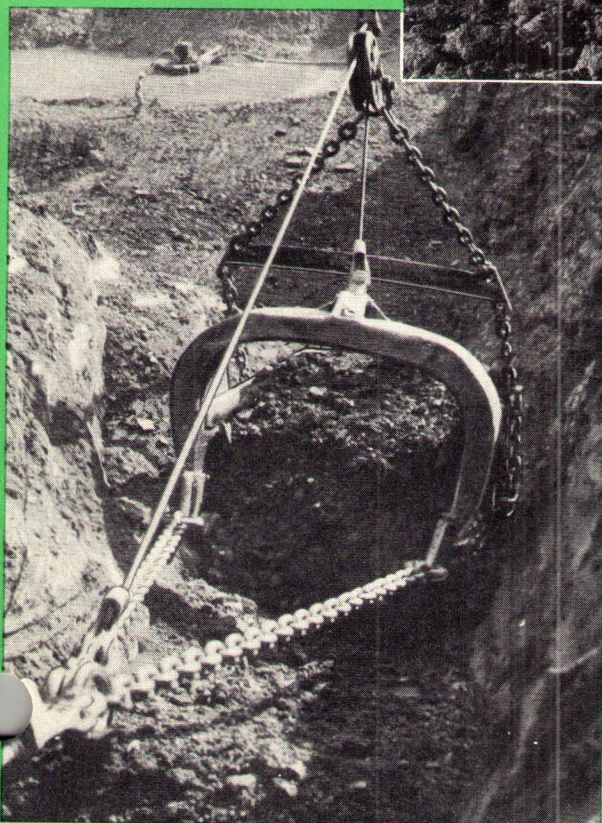




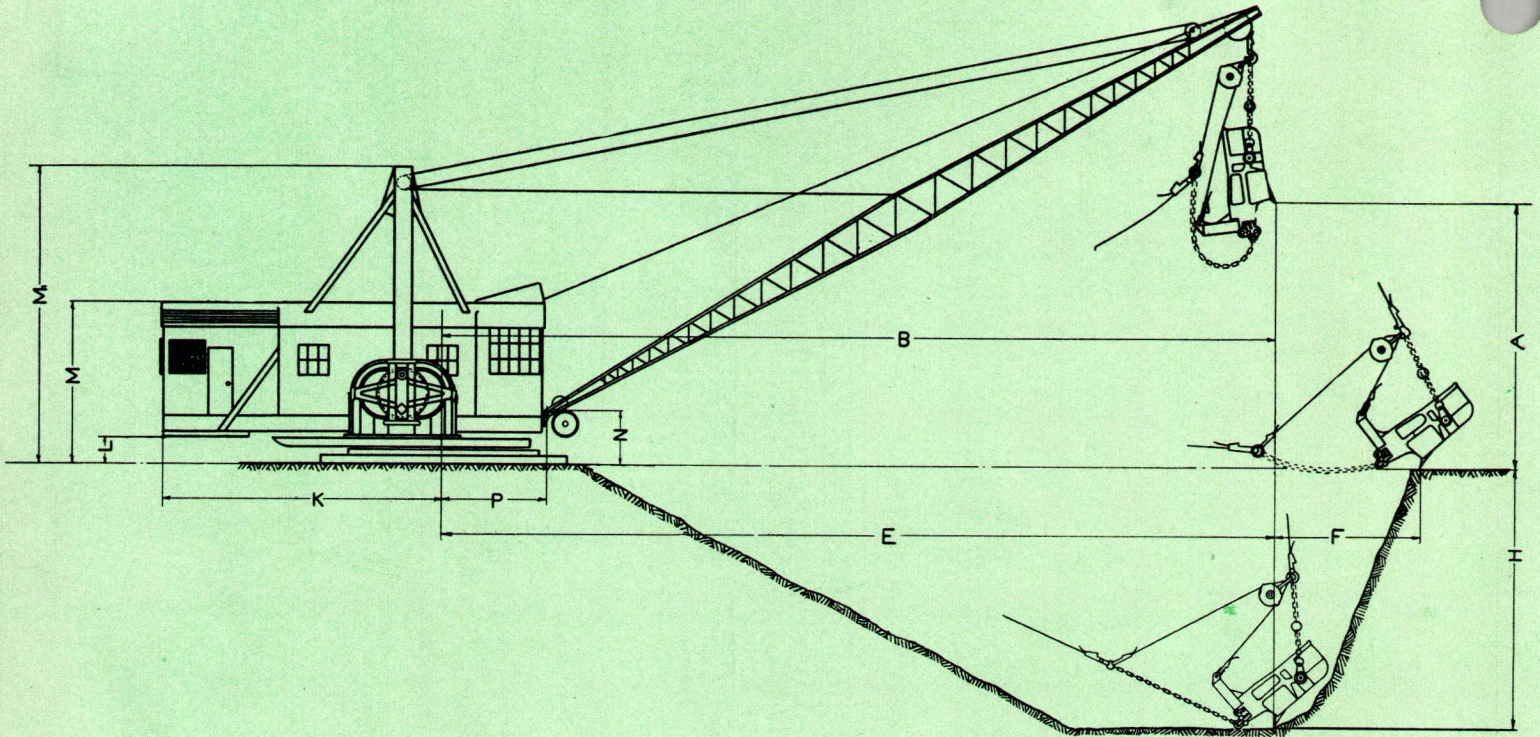
Red Arch buckets combine strength and light weight. They fill fast, handle accurately, dump cleanly and quickly. Design and materials give long life, low maintenance.



Inserted Tiger Teeth, exclusive with Red Arch buckets, are easily renewable and reversible. They are made of annealed, heat-treated steel, and can easily be resharpened.



5-W SPECIFICATIONS



WORKING RANGES

(Capacity of buckets figured with contents weighing 3,000 lbs. per cu. yd.)

Length of Boom.....	100'-0"			120'-0"			135'-0"		
Capacity and Type of Bucket — Ordinary Work.....	6 cu. yd. Type AX			5 cu. yd. Type AX			4 cu. yd. Type AX		
Angle of Boom.....	25°	30°	35°	25°	30°	35°	25°	30°	35°
Allowable Suspended Load—Lbs.....	30,000	30,000	30,000	25,500	25,500	25,500	20,500	20,500	20,500
A —Dumping Height.....	30'-0"	38'-0"	45'-0"	38'-0"	47'-0"	56'-0"	46'-0"	56'-0"	66'-0"
B —Dumping Reach.....	100'-0"	96'-0"	91'-0"	118'-0"	113'-0"	107'-0"	132'-0"	126'-0"	120'-0"
E —Digging Reach, under Boom Point.....	100'-0"	96'-0"	91'-0"	118'-0"	113'-0"	107'-0"	132'-0"	126'-0"	120'-0"
F —Throw of Bucket, Approximate.....	12' to 15'			20' to 25'			30' to 35'		
H —Digging Depth, Std. Hoist Rope Allows.....	55'-0"	50'-0"	43'-0"	65'-0"	60'-0"	51'-0"	75'-0"	70'-0"	60'-0"
H1 —Digging Depth, Max. no overwind of ropes.....	55'-0"	50'-0"	43'-0"	65'-0"	60'-0"	51'-0"	75'-0"	70'-0"	60'-0"
K —Clearance radius of revolving frame.....				32'-4"					
L —Clearance under frame to ground.....				3'-5"					
M —Height of house above ground.....				16'-2½"					
M1 —Height of A—Frame above ground.....				29'-10½"					
N —Height of boom foot pin above ground.....				5'-3½"					
P —Distance boom foot pin to center rotation.....				9'-11"					

6300
5000³³

WEIGHTS:

*Net weight, domestic, approximate. ✓	300,000 lbs.
Working weight, approximate	340,000 lbs.
Ballast required, furnished by purchaser	35,000 lbs.
Export shipping weight, boxed, approximate	320,000 lbs.
Ships option tons	320

WALKING TRACTION MOUNTING:

Width and length of shoes	4'-0" x 25'-0"
Area of both shoes	200 sq. ft.
Diameter of cam	4'-8 ¹ / ₄ "
Length of step	6'-0"
Overall width over shoes	33'-0"
Diameter of walking shaft	9" — (at towers 10")
Walking speed, normal engine speed	0.20 mi. per hr.

BASE:

Outside diameter	24'-0"
Bearing area	452 sq. ft.
Diameter rail circle	18'-0"
Size and weight of roller rail per yard	5" — 104 lbs.
Number and diameter of rollers	40 — 10"
Pitch diameter swing rack	14'-8"

REVOLVING FRAME:

Width and length (shipping center section)	9'-10" x 41'-2"
Depth, outside sill members	18" channel
Depth, inside sill members	18" I-Beams

MACHINERY — Diesel Power:

	100'-0" Boom	120'-0" Boom	135'-0" Boom
Diameter of hoist drum, grooved	34 ¹ / ₂ " P.D.	37 ¹ / ₄ " P.D.	40" P.D.
✓Speed of hoist, one part	178 f.p.m.	190 f.p.m.	206 f.p.m.
✓Pull of hoist rope, average engine speed	61,250 lbs.	56,600 lbs.	52,750 lbs.
✓Diameter of drag drum, grooved	34 ¹ / ₂ " P.D.	37 ¹ / ₄ " P.D.	40" P.D.
✓Speed of drag rope	155 f.p.m.	167 f.p.m.	178 f.p.m.
✓Pull of drag rope, average engine speed	66,250 lbs.	61,750 lbs.	57,250 lbs.
✓Diameter of hoist rope, one part	1 ¹ / ₄ "	1 ¹ / ₄ "	1"
✓Diameter of drag rope, one part	1 ¹ / ₂ "	1 ¹ / ₂ "	1 ³ / ₈ "
✓Diameter of boom hoist rope, ten parts	⁷ / ₈ "	⁷ / ₈ "	⁷ / ₈ "

†POWER:

✓F. M. Co. Diesel engine, 6 cylinder, Type 44-H.	240 H.P.
✓Bore and stroke	10" x 12 ¹ / ₂ "
✓Normal speed	400 r.p.m.
Horsepower rating (Excavator service)	300
Horsepower rating (Continuous)	240
✓Capacity of fuel tank	600 U.S. Gals.
✓Capacity of water system	140 U.S. Gals.

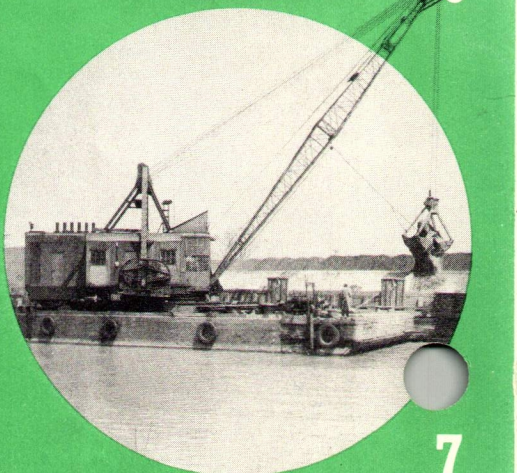
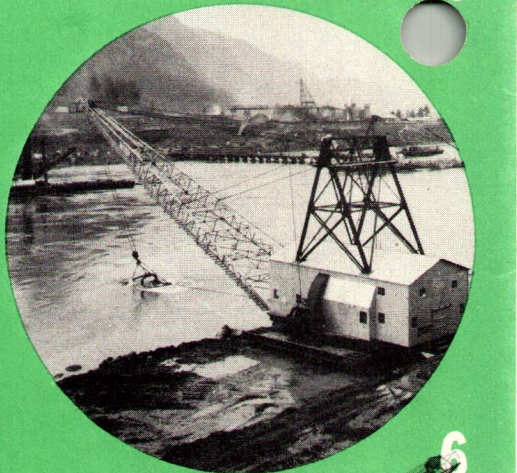
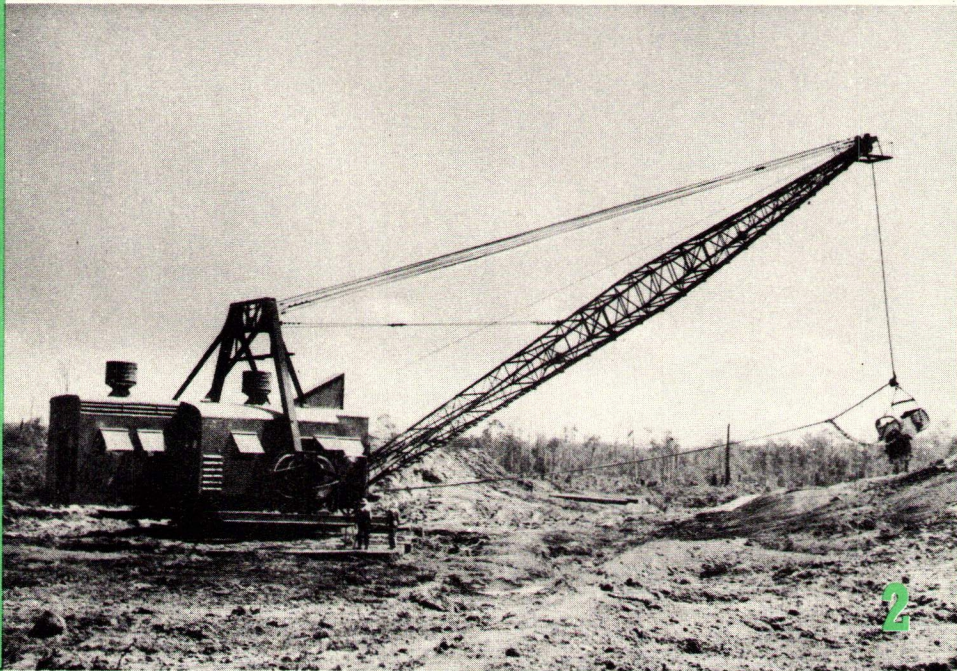
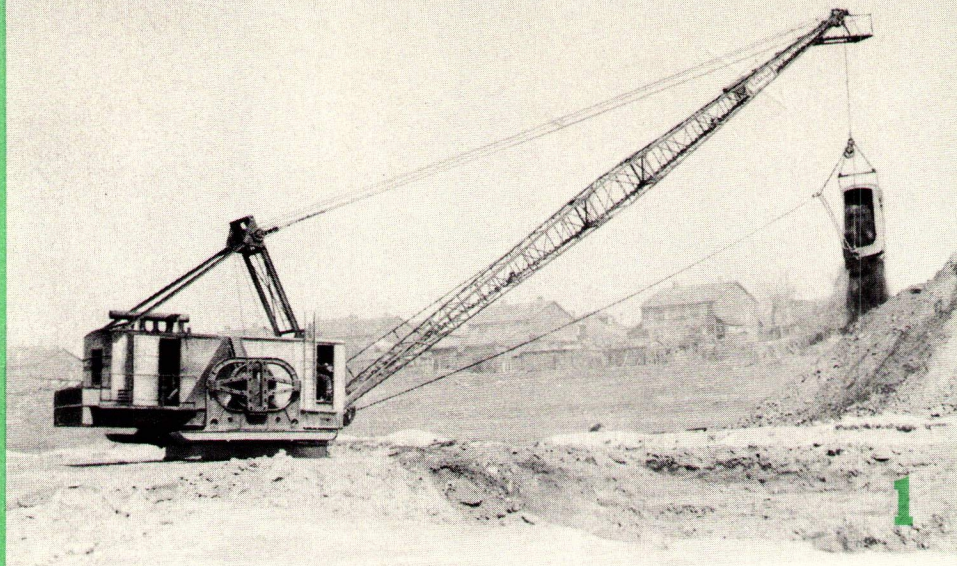
ELECTRICAL EQUIPMENT:

Swinging motor — 230v 50° C. cont.	40 h.p. 550 r.p.m.
Swinging generator — Ward Leonard control	Cap. to suit motor.

*Add 8000 lbs. blocking on cars when estimating freight for domestic delivery.

†Can also be furnished for full electric operation.





There is a Bucyrus-Monighan Dragline to fit your requirements

1 This new 3-W, owned by A. E. Dick, is one of the many Bucyrus-Monighan walkers stripping anthracite coal. This operation is near Florence, Pa.

2 Ability to deliver sustained dependable performance has made the Walker popular all over the world. Here is the Malayan Collieries Bucyrus-Monighan, operating in the Federated Malay States with 3-yard bucket and 130-foot boom.

3 Stripping coal for Maumee Collieries Company near Terre Haute, Indiana, this Bucyrus-Monighan carries a 12-yard bucket on a 165-foot boom.

4 Near Buenos Aires, Argentina, the International Cement Corporation strips overburden with this Walker which uses a 200-foot boom and 5-yard bucket.

5 J. A. Terteling & Sons use their new 9-W Bucyrus-Monighan walking dragline on Nebraska's huge power and irrigation project near North Platte.

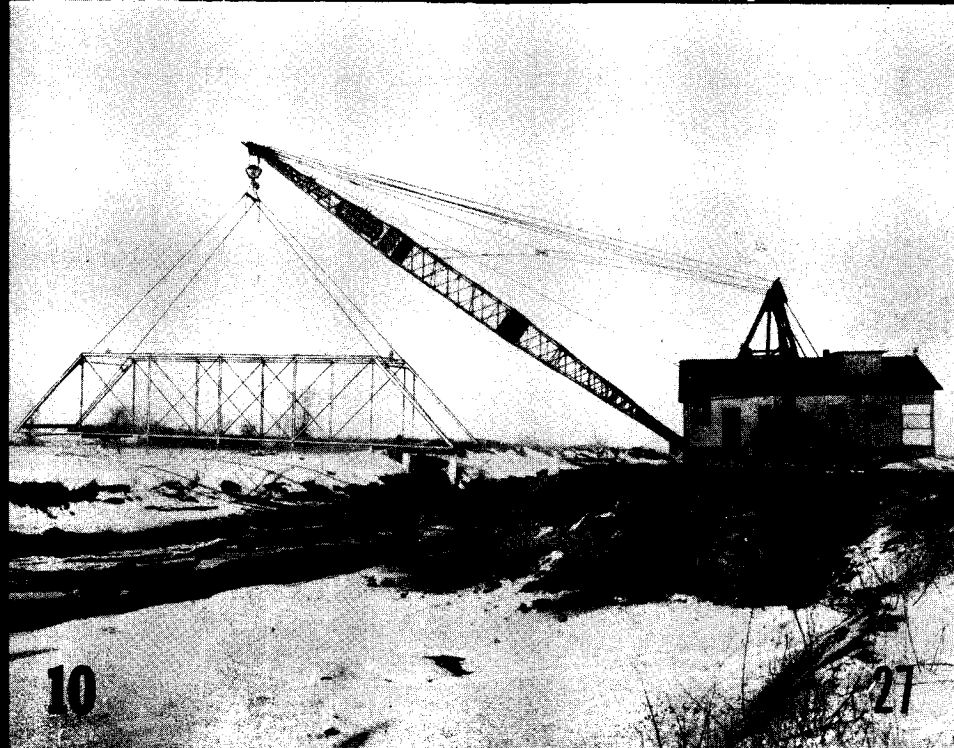
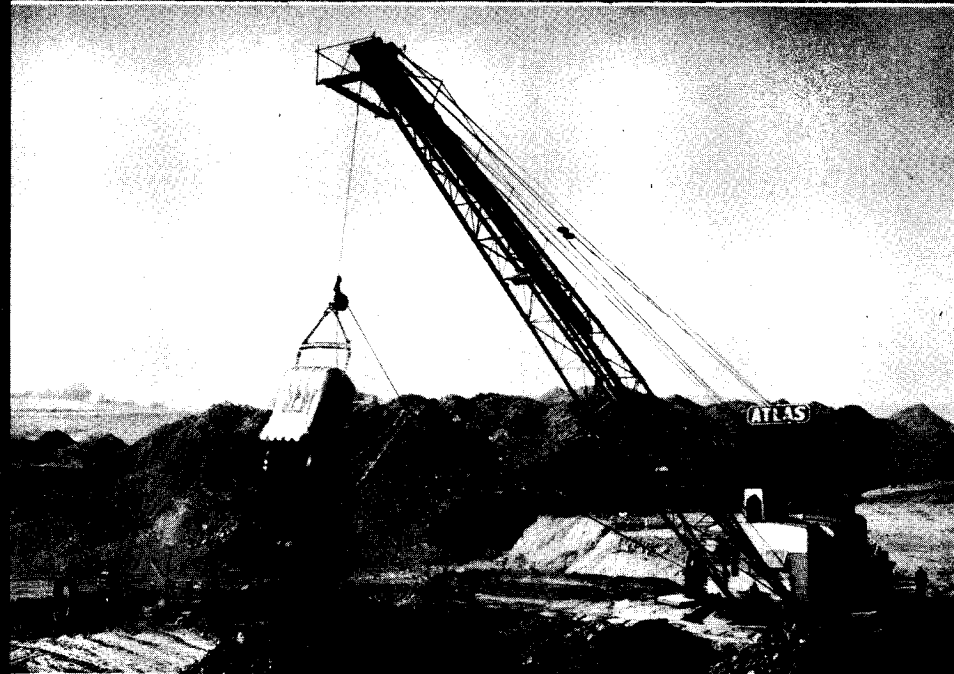
6 Columbia Construction Company found plenty for this Walker to do during construction of Bonneville Dam. An 8-yard bucket was used on 140, 160 and 175-foot booms.

7 Walter S. Rae converted his walking dragline to a 5-yard clamshell for dredging hard clay from the river bottom at Fairport Harbor, Ohio.

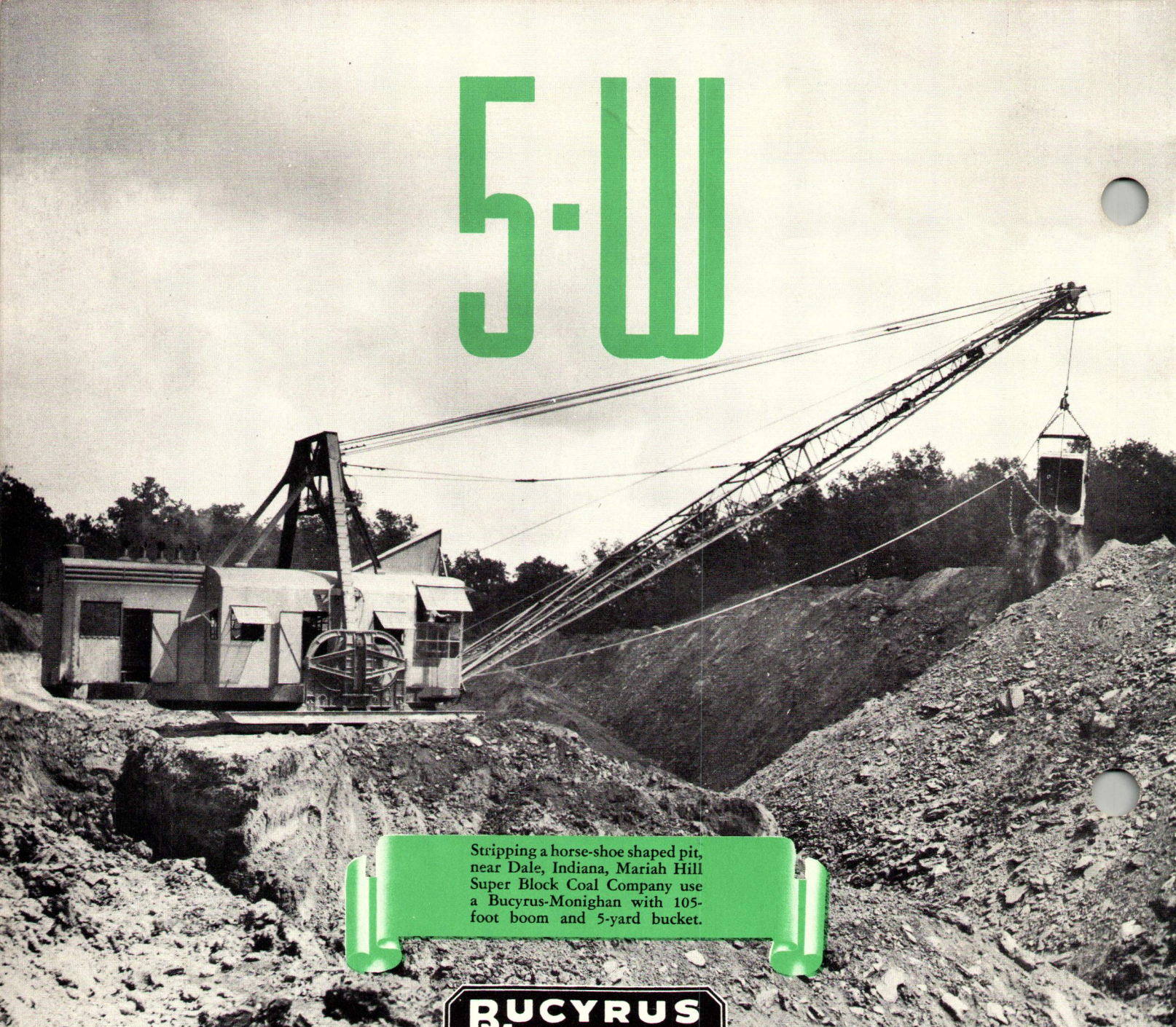
8 Excellent production records were made by this Bucyrus-Monighan owned by Pieux Franki in excavation of the Albert Canal in Belgium. The machine is here excavating near Liege lock foundation with 5-yard bucket and 135-foot boom.

9 "... for flexibility, durability, low yardage cost, this machine can't be beat!" says the Atlas Coal Company of their 5-yard Bucyrus-Monighan walker.

10 Here is a Bucyrus-Monighan removing a 100-foot span truss bridge over Salt Creek north of Lincoln, Nebraska. This machine is owned by Martin-Day Company, used 10-foot boom.



5-W



Stripping a horse-shoe shaped pit,
near Dale, Indiana, Mariah Hill
Super Block Coal Company use
a Bucyrus-Monighan with 105-
foot boom and 5-yard bucket.

**BUCYRUS
MONIGHAN**

BUCYRUS-MONIGHAN COMPANY

Chicago, Illinois

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