

NEW

CASE

Industrial Rubber-Tired
BACKHOE-LOADER

Model 320
Gasoline

The only low-priced backhoe-loader
designed, built and fully warranted
as a complete unit
by ONE responsible manufacturer



NOTE: Similar backhoe units also
available on Case-TerraTrac crawlers



J. I. CASE COMPANY

RACINE, WISCONSIN, U.S.A.

Famous for quality for over 100 years

ENGINEERED AND BUILT AS A

...outperforms any rig in its class.

One look at the new Case Model 320 industrial wheel tractor, with matching Case loader and backhoe, tells you here is a rugged *perfectly balanced unit* that will handle the toughest digging and loading assignments. The new "320" *looks* like a heavy-duty outfit... performs like a heavy-duty outfit... yet it actually sells at a *lower price* than many smaller capacity diggers mounted on converted farm tractors.

Why? Because the entire Case unit — tractor, backhoe, loader, even the engine — has been engineered and built by Case to work as a "team". You don't buy a loader here, a backhoe there, and "hang" them on somebody else's tractor. With the Case 320, you pay just *one* manufacturing profit... receive just *one* service warranty on the *complete* machine. No "hidden" charges... no messy split-responsibility! When something needs attention, your local Case industrial dealer can service *all* components in a hurry because he gets all his parts from *one* source.

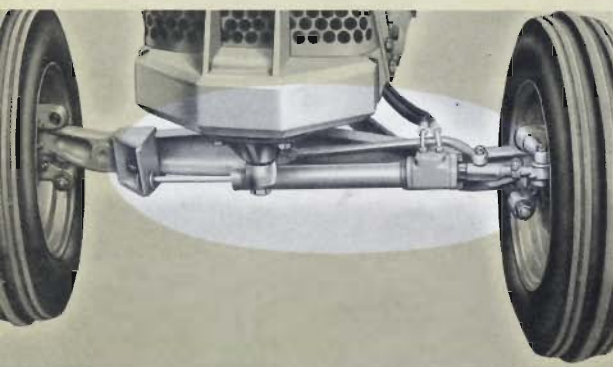
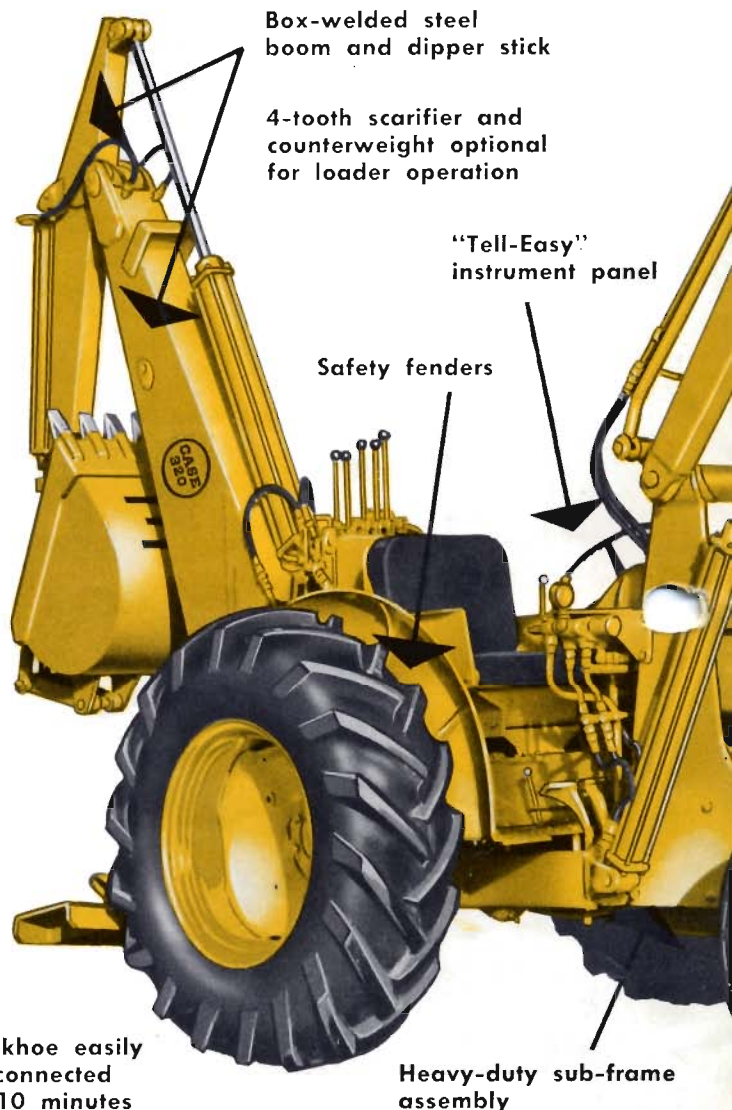
EXCLUSIVE PERFORMANCE FEATURES

A few minutes of operation will convince you that this new Case backhoe-loader combination has more power, speed and stamina for handling a wider range of jobs than any wheel-type digger in its price range.

For example, *only* the Case 320 gives you: heavy-duty industrial bumper and radiator guard... recessed headlights... husky drop-forged front axle... extra-heavy sub-frame assembly... shuttle transmission... power steering... and telescoping stabilizers.

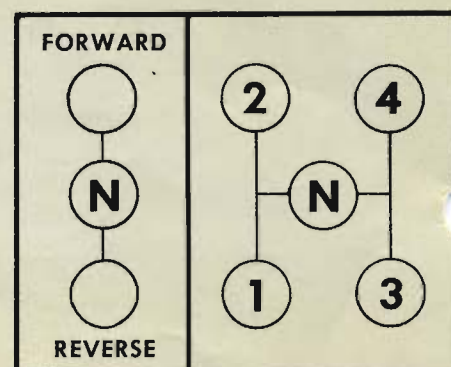
In addition, all Case backhoe and loader assemblies are stress-engineered with heavy box-welded plate construction, reinforced with expensive cast-steel gussets at points of strain, *plus* hardened steel pins and replaceable bushings at all wear points. No wonder leading contractors, public officials, and industrial users everywhere are acclaiming the new Case "320" the "buy of the year". See it today at your Case industrial dealer's.

Stress points heavily reinforced

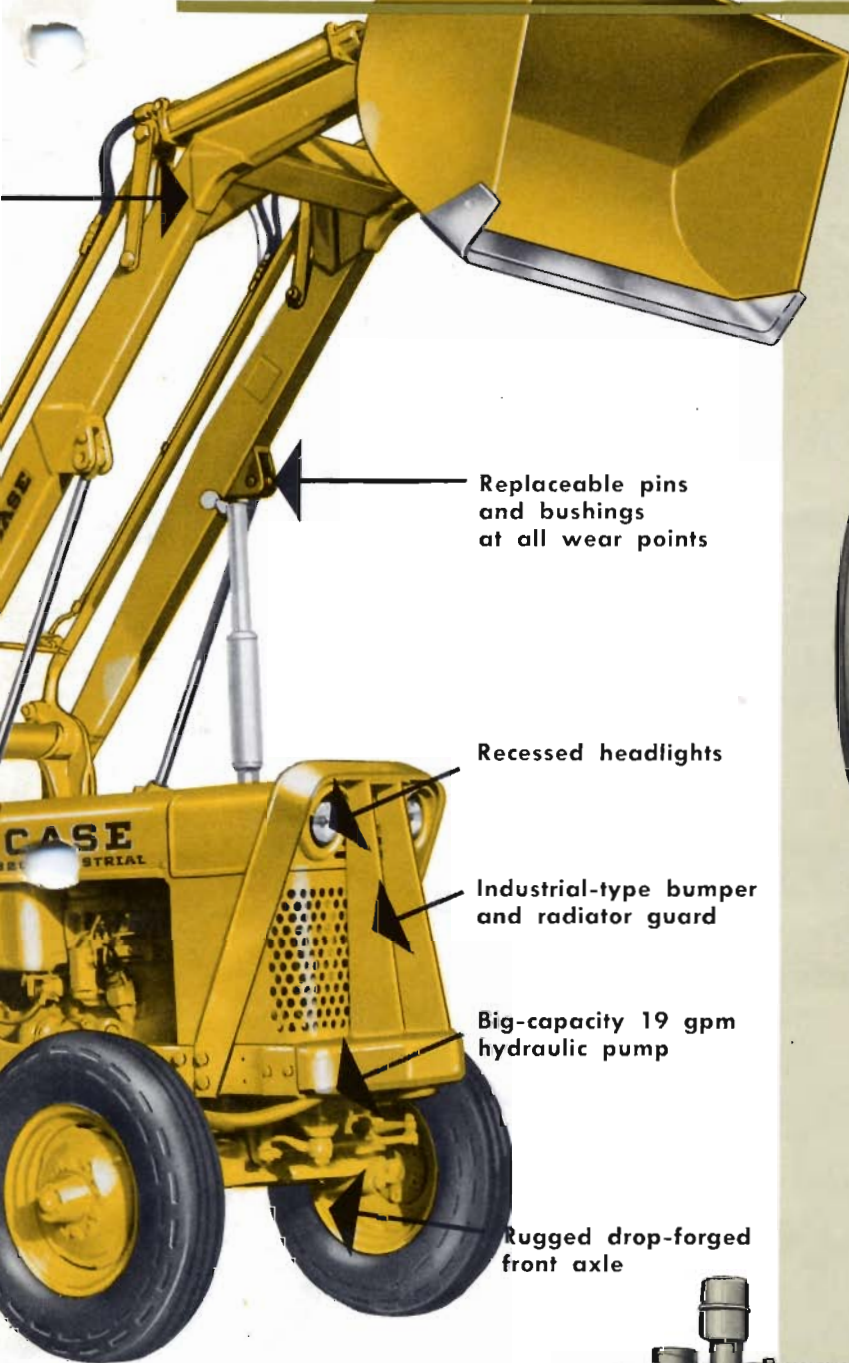


POWER STEERING (Optional) increases maneuverability

New Case hydraulic steering method lets you maneuver easily in tight places and on rough ground — even turn wheels with one finger while tractor is standing still. Hydraulic pressure applied directly to steering arms absorbs shock, yet retains steering "feel".



AN INDUSTRIAL TRACTOR



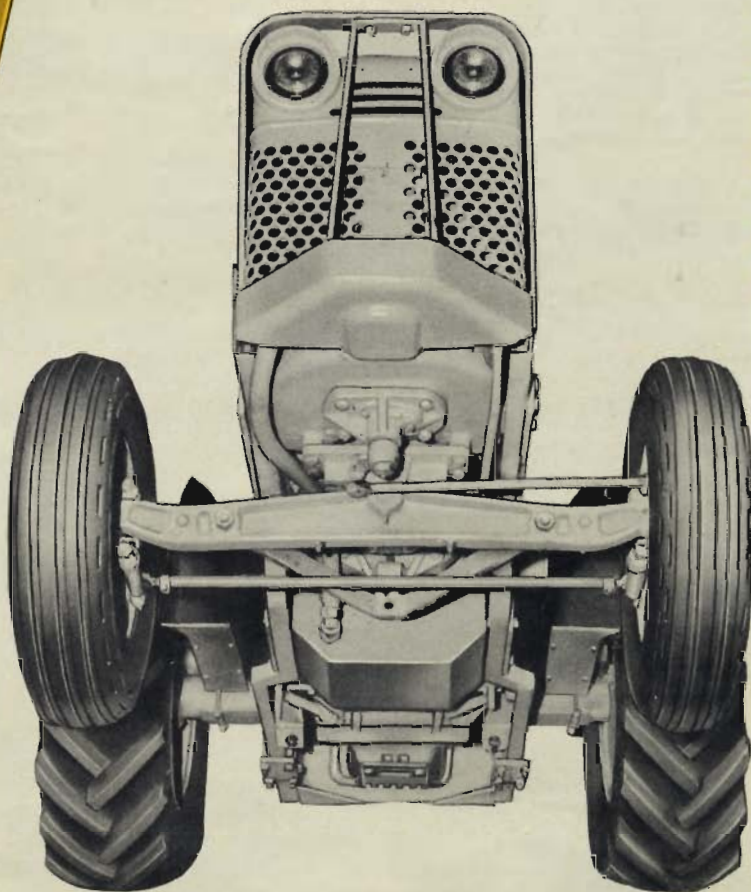
Replaceable pins and bushings at all wear points

Recessed headlights

Industrial-type bumper and radiator guard

Big-capacity 19 gpm hydraulic pump

Rugged drop-forged front axle

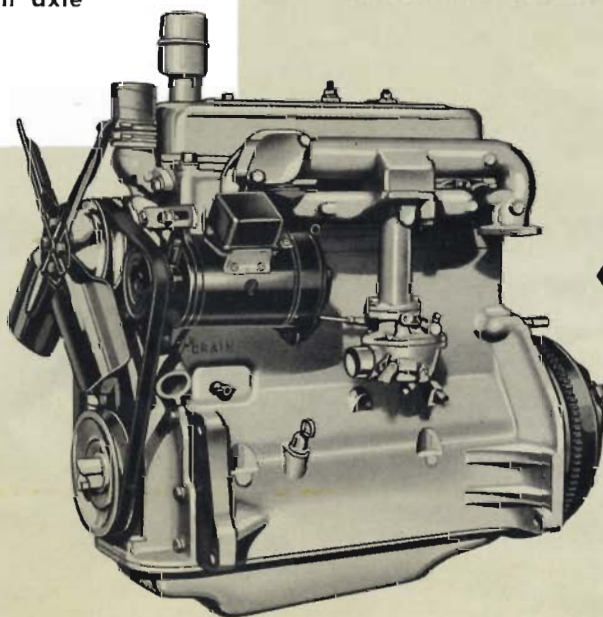


RUGGEDLY BUILT for heavy-duty service

This "worm's eye" view gives you a good idea of the rugged construction of the new Case "320". Note the husky drop-forged steel front axle... stronger by far than the axle used on any converted farm tractor. Note, too, the heavy-duty wrap-around subframe for supporting mounted equipment. This, together with the "320's" rugged industrial bumper and radiator guard, mean extra strength for extra years of trouble-free service.

NEW SHUTTLE TRANSMISSION (Optional) increases working speeds up to 30%

Exclusive Case-built transmission enables you to shift instantly from forward to reverse (and vice versa) in same gear — just by depressing clutch and moving a single lever. This gives you greatly increased speed in backing out, dumping and maneuvering for next load — since Case reverse speeds are approximately 27% faster than forward in any gear.



"BONUS POWERED" for tough going

Heavy-duty Case industrial overhead-valve engine has the highest compression ratio in its horsepower class. In addition, it develops peak torque at $\frac{2}{3}$ of rated speed, so when an overload pulls engine-speed down, the engine pulls 12% harder to keep going through tough spots. Thus, you move bigger loads without racing engine or slipping clutch. Saves fuel and wear.

Exclusive CASE LOADER features



Heavy-duty loader really moves dirt

Powerful direct-thrust design, combined with rugged $\frac{1}{2}$ -cu. yd. bucket and 26° breakout angle enable the Case "320" to out-produce any machine in its class. Note, too, how neat, clean loader-lines give operator perfect visibility in all directions.

Steeper grading angle speeds backfilling

Case "power-bucket" rolls forward a full 60° at ground level, to permit smooth, uniform control of backfilling and grading work. With the Case "320", there's no skipping or "gouging" because dirt is "dozed" ahead of the bucket.



Bucket stays level all the way up!

Automatic power-leveling of bucket, plus exceptionally high lift and forward reach, make it easy to load tall trucks and hoppers without spillage. This important feature is another *plus* benefit you get exclusively with the Case "320".



Comfortable padded posture-type seat

Instead of the usual farm-tractor "bucket", furnished on most low-priced backhoe-loaders, Case gives the operator a big, roomy spring-cushioned seat, with padded backrest. In addition, seat is easily reversed from loader position to backhoe position.



Hydraulic foot-controlled 180° swing

This one feature alone cuts cycle time practically in half because operator can swing boom 180° with one foot... still has hands free to maneuver bucket and dipper stick at same time. Result: Higher output, less operator fatigue.

Exclusive CASE BACKHOE features

Longer reach!

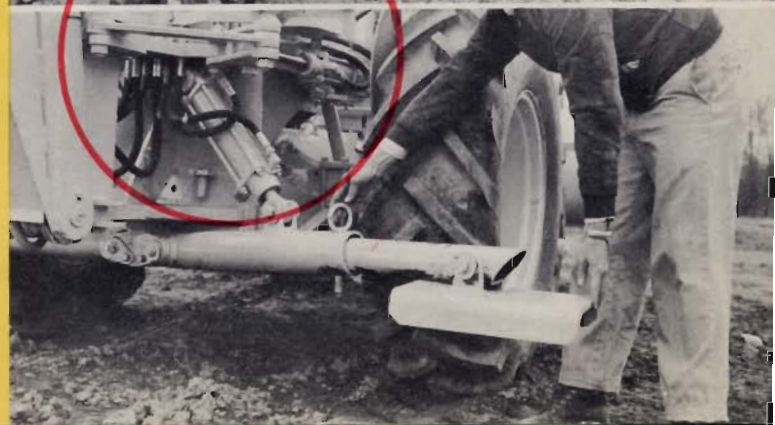
Because the new Case 320 backhoe can reach 18'7" from rear axle, it can dig deeper, dump higher and pile spoil dirt farther away from the trench than other wheel-type backhoes. This increases work-range of machine, also boosts production by reducing tractor moves.

Stronger... more powerful!

Look at that rugged box-welded steel boom and dipper stick... stronger by far than any other backhoe in its price range. In addition, Case gives you a bigger 19 GPM hydraulic pump, so you have more power for fast, easy digging in tough material.

Telescoping Stabilizers

Rugged telescoping tubular steel stabilizers, with extra-large feet, can be extended beyond width of tires on each side, to provide perfect balance and stability for digging over side or end. Individual hydraulic controls make it easy to level tractor on rough ground.



Specifications for

Case Model 320 Industrial Backhoe-Loader Combination

Gasoline

ENGINE (Case)

Model	G-148
Max. HP Gross (@ 1750 RPM)	42
No. of cylinders	4
Bore and stroke	3 $\frac{3}{8}$ " x 4 $\frac{1}{8}$ "
Cu. in. displacement	148
Compression ratio	7.1 to 1
Max. torque (Ft. lbs.)	128
Ignition	Coil and dist.
Starting	6-volt electric
Carburetor	Up-draft
Fuel supply	Pump
Cylinder sleeves	Removable wet type

SPEEDS (with shuttle transmission)

Forward, MPH

1st Low	1.48	1st Direct	2.39
2nd Low	2.18	2nd Direct	3.51
3rd Low	2.86	3rd Direct	4.62
4th Low	10.09	4th Direct	16.27

Reverse, MPH

1st Low	1.88	1st Direct	3.03
2nd Low	2.76	2nd Direct	4.46
3rd Low	3.64	3rd Direct	5.86
4th Low	12.81	4th Direct	20.67

DIMENSIONS AND WEIGHTS

(with backhoe and loader)

Overall length (Backhoe at carry)	222"
Overall width (to outside of drive tires)	78"
Width of loader bucket	57 $\frac{1}{2}$ "
Height (top of backhoe at carry)	139"
Turning radius	10'
Standard tire size	
Front (Std.)	7.50 x 16
Rear (Std.)	13 x 24
Wheelbase	75 $\frac{1}{2}$ "
Front tread	47 $\frac{1}{2}$ "
Rear tread	48" - 68"
Approx. Wt. with loader and backhoe	7650 lbs.
Approx. Wt. with loader and counterweight	5100 lbs.

CAPACITIES

Fuel tank (gals.)	13
Crankcase (qts.)	4
Trans. and Dif. (qts.)	13
Cooling (qts. water)	13
Hydraulic system	18 gal.

BRAKES: Double-disc, operating on differential shafts. Either brake can be operated individually to aid steering, locked together as service brake, or latched for parking.

REAR AXLE: 2 $\frac{1}{4}$ " diameter. Live axle type, turning in tapered roller bearings.

CLUTCH: Single plate. 9 $\frac{1}{4}$ " dia. foot-operated std. Heavy-duty double-disc, foot-operated optional (extra).

HYDRAULIC SYSTEM: Constant-drive gear-type pump delivers 19 GPM @ 1475 PSI to extra-large double-acting cylinders for exceptional power and accurate control of both loader and backhoe. (15 GPM pump for loader models only.) Removable cylinder heads held by 4 external through-bolts for maximum strength and to provide easy accessibility for servicing.

VALVE: Heavy-duty 6-spool type with individually adjustable and replaceable spool for each action. Parallel circuit control permits operation of 2 or more cylinders at same time.

HYDRAULIC LINES: Formed seamless steel tubing combined with double-strength wire braided hose and "swedged" fittings.

SCARIFIER AND COUNTERWEIGHT: 4-tooth scarifier with 500 lb. counterweight (or 1000 lb. cwt.) available at extra cost for rear-mounting on loader models only.

LOADER SPECIFICATIONS

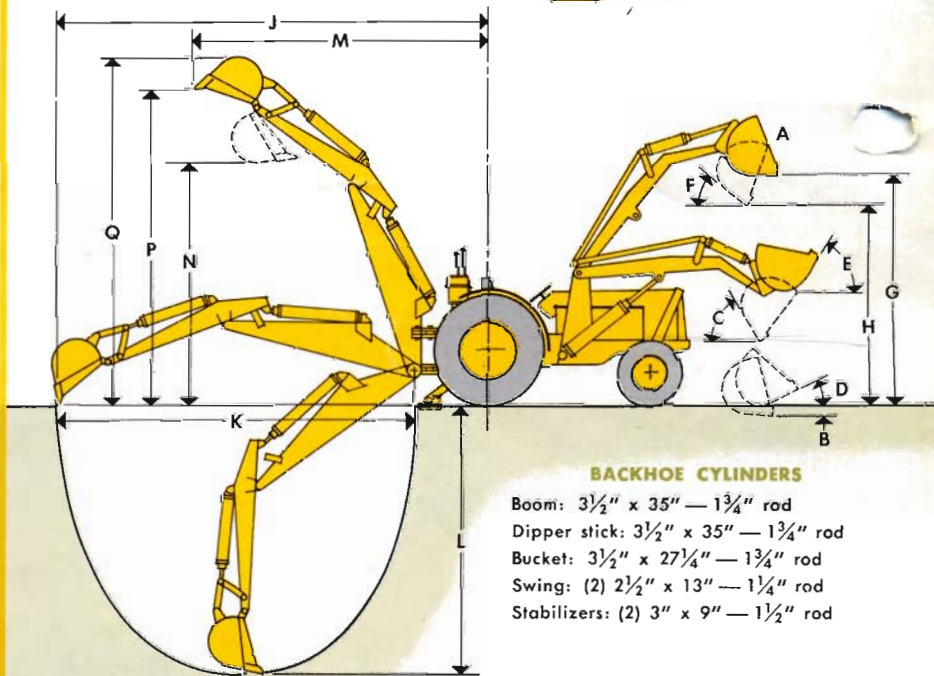
(A) Bucket capacity	1 $\frac{1}{2}$ -cu. yd.
(B) Digging depth (below grd.)	4"
(C) Grading angle	60°
(D) Bucket rollback at grd.	26°
(E) Rollback at carry	57°
(F) Dump angle, Max. Ht.	40°
(G) Max. lifting height	114 $\frac{1}{2}$ "
(H) Dump clearance	99 $\frac{1}{4}$ "

LOADER CYLINDERS

Lift: (2)	2 $\frac{1}{2}$ " x 32 $\frac{3}{8}$ " — 1 $\frac{1}{4}$ " rod
Dump: (2)	2 $\frac{1}{2}$ " x 17 $\frac{1}{8}$ " — 1 $\frac{1}{4}$ " rod

BACKHOE SPECIFICATIONS

(J) Digging reach (from axle)	18'7"
(K) Digging radius (from pivot)	16'2"
(L) Digging depth	12'6"
(M) Dump reach (max. lift)	11'6 $\frac{1}{2}$ "
(N) Dump height (START)	10'7"
(P) Dump height (END)	15'0"
(Q) Overall Ht. (max. lift)	15'6"
(R) Free swing arc	180°



BACKHOE CYLINDERS

Boom:	3 $\frac{1}{2}$ " x 35" — 1 $\frac{3}{4}$ " rod
Dipper stick:	3 $\frac{1}{2}$ " x 35" — 1 $\frac{3}{4}$ " rod
Bucket:	3 $\frac{1}{2}$ " x 27 $\frac{1}{4}$ " — 1 $\frac{3}{4}$ " rod
Swing: (2)	2 $\frac{1}{2}$ " x 13" — 1 $\frac{1}{4}$ " rod
Stabilizers: (2)	3" x 9" — 1 $\frac{1}{2}$ " rod

BOOM AND DIPPER STICK: Stress engineered box-welded steel plate construction, reinforced at all strain points. Hardened steel pins and replaceable bushings used throughout. Extra-long dipper stick gives proper angle between boom and dipper stick for maximum digging leverage in all positions.

SWING MECHANISM: Two trunnion-mounted double-acting cylinders with connecting linkage swing boom full 180°. Feathering valve, linked with right and left foot pedals, "cushions" swing and reduces wear on swivel points.

STABILIZERS: Telescoping tubular steel arms, equipped with extra-large feet, extend outside tires and anchor tractor firmly to ground. Independently controlled hydraulic cylinders make it easy to level tractor on hillsides.

BUCKET: Heavy-duty welded steel with self-sharpening teeth. 19" width standard; other sizes on special order. Special stop-blocks on top of boom cushion cylinders and provide "knockout" bucket action.

NOTE: J. I. Case Co. reserves the right to make improvements in design and changes in specifications at any time without incurring any obligation on units previously sold.

*Sold and
Serviced by:*