MODEL

420

- The only power-digger in the low-price field with
- TORQUE CONVERTER
- Shuttle transmission
- Power-steering

CASE INDUSTRIAL rubber-tired BACKHOE-LOADER



LOADER

2000-lb. cap. self-levelling bucket



BACKHOE

- Digs 12½ ft. deep
- Reaches 16 ft. from pivot
- Lifts 3000-lb. loads
- 8 ft. 3 in. dump clearance

More muscle... more hustle!

Here, at last, is a low-priced backhoeloader on rubber that gives you more muscle, more hustle, than any other rig in its class. Not only do you get a powerfully-built backhoe for heavy-duty trenching... you also get the first low-cost loader actually designed for production digging. Reason for the tremendous digging power of the "420" loader is its torque-converter drive, which provides up to 56% greater push-power, automatically adjusts travel speeds to varying loads, and

eliminates engine stalling. The converter also increases traction because you can "ease" the loader bucket into ground or stockpile and apply extra power smoothly—through an infinite number of speed ratios—without clutching or spinning the wheels. You get a full bucket every time, and you deliver more payload because non-spill bucket automatically stays level all the way up! Call your Case Industrial Dealer for a convincing "420" demonstration on your job—TODAY!

Complete unit engineered, built and fully warranted by

J. I. CASE COMPANY • RACINE, WISCONSIN, U. S. A.

Backhoe features:

Ruggedly-built backhoe reaches farther, digs deeper than others in its class. Telescoping stabilizers are independently controlled for level digging, better balance and stability. 19" bucket standard, with choice of 8 other optional sizes and types.

Exclusive hydraulic footcontrolled 180° swing leaves both hands free to operate the heavy-duty boxsection boom and dipper stick. Pivot-points are equipped with replaceable hardened steel pins and bushings for long, trouble-free life.

Loader features:

Big 21 gpm hydraulic pump and 20% more powerful 3" lift cylinders combine with 25° bucket rollback to develop 4600 lbs, break-out force, 2000 lbs, lift capacity, Wide 63%" self-levelling bucket rolls forward 90° for precision grading and backfilling, Hydraulic pump delivers full power at all times, because tarque converter maintains constant engine rpm.

Heavy-duty box-welded loader frame and loader arms, plus sturdy steel cross brace, insure crisp, straight digging without distortion.

Tractor features:

High-torque 148-cu, in. Case valve-in-head engine with torque-converter drive develops up to 12,000 lbs, drawbar push or pull, Torque converter can be "locked out" for backhoe operation and high speed highway travel.

Hydraulic power-steering and fast shuttle-shift, with reverse speeds 24% faster than forward in each gear, speed loading and backfilling.

One-piece drop-torged axle eliminates failures encountered with 3-piece or spindle-type axles. Comfortable seat, with cushioned back and arm rests, reverses for operating backhoe or loader. What's more, all controls on tractor are easily reached from either seat position.



1st in quality for over 100 years

Specifications for CASE "420" RUBBER-TIRED INDUSTRIAL BACKHOE-LOADER

BACKHOE OPERATING DATA

| Bucket widths available:14", 16", 19" (S | itd.), 24", 30" trenching; 16" and |
|--|------------------------------------|
| 30" belihole; 36 | " bellhole-grave; 36" grave |
| Free swing arc | 180° |

| LOADER OPERATING DATA | Standard | Optional |
|------------------------------|------------|-------------|
| Bucket sizes — SAE rated cap | 15 cu. ft. | 3/4 cu. yd. |
| SAE struck cap | 12 cu. ft. | 17 cu. ft. |
| Overall width | 633/8" | 793/8" |
| Max. lift to full height | 2000 | lbs. |
| Max. breakaway (to 12") | 4600 | lbs. |
| Lifting time | | sec. |
| Dumping time | 2.2 | sec. |
| Lowering time | 3.3 | sec. |
| | | |

ENGINE

| Make and Model (cu. in. displ.) | Case G-148 |
|----------------------------------|-----------------------|
| Gross engine flywheel horsepower | 47* |
| | |
| Max. drawbar horsepower (Est.) | 33 |
| Max. lbs. pull or push | 12,000 |
| (assuming adequate traction) | |
| Max. torque (ftlbs.) | 128 @ 1900 rpm |
| Cylinders, no. (valve-in-head) | 4 (wet sleeve) |
| Bore and stroke | 33/8" x 41/8" |
| Ignition | Coil & dist. |
| Starting | 12-volt electric |
| Carburetor | Up-draft |
| Air cleaner | Oil bath |
| Oil filter | Renewable cartridge |
| Governor | Mechanical fly-weight |
| Lubrication | Positive pressure |
| Cooling system — type | Pressurized pump |
| | |

CAPACITIES

| Cooling system | 13 qts. |
|------------------|-----------|
| Fuel tank | 13.7 gal. |
| Crankcase | 4 qts. |
| Trans. and diff | 13 qts. |
| Hydraulic system | 18 gal. |

POWER TRAIN

| Clutch (friction, single dry ferrometallic disc) | 9½" dia. |
|--|----------------------------|
| Transmission | Sliding spur gear with |
| | synchronized shuttle shift |

SPEEDS with 13" x 24" tires

Direct Drive (Travel)

| Low Range | 1 st | 2nd | 3rd | 4th | Direct Range | 1 st | 2nd | 3rd | 4th |
|-----------|------|-----|-----|------|--------------|------|-----|-----|------|
| Forward | 1.8 | 2.6 | 3.5 | 12.0 | Forward | 3.0 | 4.3 | 5.7 | 19.3 |
| Reverse | 2.3 | 3.3 | 4.4 | 14.9 | Reverse | 3.7 | 5.4 | 7.1 | 24.0 |

Torque-Converter Drive 0 to 19.2 mph

4 speeds and 2 ranges, forward and reverse

BRAKES

| Foot, double-disc. Individual rear wheel pedals can | |
|---|---------|
| be locked or operated individually | 6" dia. |

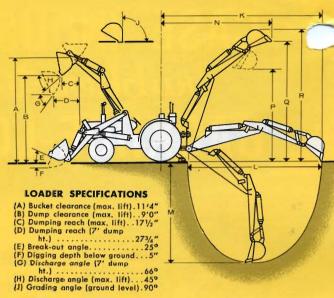
STEERING

| Cam and lever with hydraulic power | |
|------------------------------------|-----|
| assist. Turning radius | 10' |

DIMENSIONS AND WEIGHTS (with backhoe and loader)

| Overall length (backhoe and loader) at carry | 20'8" |
|--|-----------|
| Overall width (to outside of drive tires) | 78" |
| Height (top of backhoe at carry) | 10'3" |
| Height (top of loader frame) | 641/2" |
| Tread, front | 471/2" |
| rear | 64" |
| Tires (standard) | |
| front | 7.50 x 16 |
| rear | 13 x 24 |
| Wheelbase | 751/4" |
| Ground clearance | 103/4" |
| Approximate weight | 7740 lbs. |

^{*}Sea level (calculated) maximum HP (based on 60° F. and 29.92" Hg.) Manufacturer's rating. Nebraska test not yet available.



HYDRAULIC CYLINDERS

| Loader lift (2): 3" x 311/2" — 11/2" |
|--|
| loader dump (2): 21/2" x 183/8" — 11/4" rods |
| Boom: 31/2" x 35" — 13/4" rod |
| Dipper stick: 4" x 261/8" - 2" rod |
| Bucket: 31/2" x 271/4" - 13/4" rod |
| Swing (2): 21/2" x 161/2"-11/4" rods |
| Stabilizers (2): 3" x 9" — 11/2" rods |

BACKHOE SPECIFICATIONS

(K) Digging reach (from axle). 18'7'
(1) Digging radius (from pivot). 16'2'
(M) Digging depth 12'6
(N) Dump reach (max. lift). 11'6'/2'
(P) Dump height (start). . . 10'7'
(Q) Dump height (end). . . 15'0'
(R) Overall height (max. lift). . 15'6'

HYDRAULIC SYSTEM

Cylinder design and packing: Sturdy, easy-to-service Case design, with removable cylinder heads securely joined by 4 high-strength external thru-bolts. Rods equipped with chevron packing to positively hold pressures.

Controls: Four-position, double-spool valve with positive-hold "float" position; built-in relief; mounted for right-hand operation of loader. Heavy-duty 6-spool valve with individually replaceable spools and bodies provides precise operation of backhoe, boom, crowd, bucket and stabilizer cylinders. Foot pedals control backhoe swing with feathered action and cushioned stops. Primary relief setting at 1500 psi.

Pump: Tractor-mounted, direct-drive, gear-type, 21 gpm capacity @ 2000 rpm.

Hydraulic lines: Steel tubing with brazed fittings, and double wire-braid high-pressure hose with swaged fittings.

IMPORTANT: J. I. Case Company reserves the right to change these specifications without notice and without incurring any obligations relating to such changes.

Sold and Serviced by: