CASE

- 141/2' backhoe or 161/2' Extendahoe
- 5000 lb. lift full height loader
- 71[†] HP Case-built gasoline or diesel engine
- Torque converter, power shuttle

680 CONSTRUCTION KING LOADER/BACKHOE

FEATURES

- 680 Construction King is a step up from average-sized rigs challenges single-purpose, far costlier loaders and backhoes. Plenty of muscle, weight and stability to handle big loads and exceptional dig depths. Designed for high production and low upkeep.
- 71 HP Case-built diesel or gasoline engine famous for long life, exceptional lugging ability and low fuel consumption.
- Torque converter doubles the push-pull power of the 680 Construction King provides tremendous crowding power for loading; easy maneuvering.
- Power shuttle with four speed transmission flip a lever, no clutching, to cycle forward and reverse. Reverse is 30% faster than forward. Save time, effort. Right speed for every job.
- Big load handling capacity loader lifts 5000 lbs. to full height, has breakout force of 8200 lbs.
 Backhoe handles buckets to 10.56 cu, ft., has exceptional bucket dig power.
- Unit-design construction
 — features a massive
 mainframe that carries
 loader and backhoe, protects engine and drive
 train from shock, strain.
- Hydrostatic steering helps you maneuver easily even with full bucket.
- Famous Case hi-power backhoe design features boom with 10 times the torsional strength of ordinary booms, 190° swing, hydraulic regeneration that eliminates hesitation and choice of foot or dual-lever, hand-controlled swing. Hardened pins and replaceable bushings at points of greatest wear.





LOADER OPERATING DATA

| *Dump clearance at maximum height — 45° dump8'1" |
|--|
| *Dump reach at maximum height 45° dump |
| *Dump reach at 7' dump height — 45° dump |
| *Reach — bucket on ground |
| *Bucket rollback (at ground line) 39° (at 36" carry) 42° |
| *Digging depth below ground line — bucket flat |
| *Maximum dump angle at maximum height |
| Grading angle |
| Breakout force, maximum (with backhoe) 8200 lbs. |
| *Maximum lift capacity to full height — rear of unit not tied down 5000 lbs. |
| *Raising time — from ground line to full height (bucket empty) 6.0 sec. |
| *Dumping time (full bucket) |
| *Lowering time (power down, bucket empty) |

BACKHOE/LOADER OPERATING DATA

| | STANDARD BACKHOE | Retracted | NDAHOE Extende |
|---|--|---|---|
| *Swing arc, uninterrupted, without change of linkage | | 190° | 190° |
| *Bucket arc | | 157° | 157° |
| *Digging force | | 11.440 lbs. | 11,4401 |
| Pryout force (depending on | , 11,440 105. | 11,440 103. | 11,4401 |
| location of fulcrum under but | ket) 30 | 0,000 lbs. or r | nore |
| Stabilizer spread (operating po | sition) 8'11" | 8'11" | 8'11" |
| (transport) . | 81" | 81" | 81" |
| Overall reach (from tractor rear axle) 'Digging radius (from swing pi Digging Depth *IEMC rating Mfrs. rating Loading height (clearance) *Loading height *Loading reach Maximum grade on which bac will make vertical cut | vot) . 17'1½" . 14'0" 14'4" 10'8½" 10'1¾" 85" | 20'6'4" 17'1'/2" 14'0" 14'4" 10'8'/2" 10'1'3'4" 85" | 22'5" 19'1/4" 16'0" 16'4" 11'5" 11'5" 9'51/2" |
| | | | |



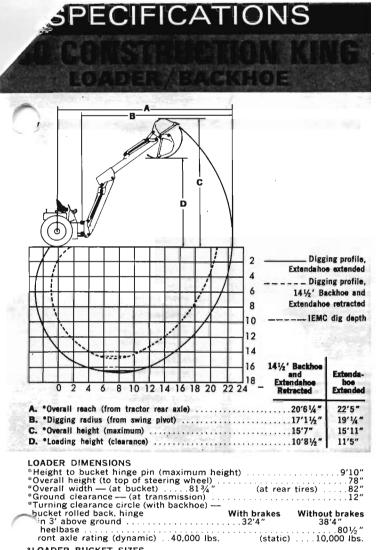
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J. I. CASE CO.

Racine, Wisconsin, U.S.A.



†See specifications reverse side



*LOADER BUCKET SIZES CAPACITIES

| OUTSIDE WIDTH | SAE rating (Nominal heaped) | Struck | WEIGHTS |
|---------------|--------------------------------|------------------------------|----------------------|
| 81¾" 92" | 1 cu. yd. 1½ cu. yd. | .75 cu. yd. 1.200 cu. yd. | 660 lbs. 915 lbs. |
| ACKHOE / DADE | DIMENSIONS AND | D WEIGHTS | |

BACKHOE/LOADER DIMENSIONS AND WEIGHTS

| | SIANUARD | EXTENDANCE | |
|--|----------|---------------------------------------|--------------------------------------|
| *Overall height (maximum) (travel position) . | 11'0" | Retracted 15'7" 11'0" 813/4" | Extended 15'11" 11'0" 8134" |
| Overall width (travel position) Overall length (backhoe in transport position — loader | | ,, | 81 3/4 |
| bucket flat on ground) | 22'9" | 22′9″ | _ |

† Approximate shipping weight: Gasoline 12,700 lbs. Diesel 12,800 lbs. $\dagger Above$ weights and dimensions include standard equipment, 1 cu. yd. loader bucket and backhoe with 24" trenching bucket. 11.00 L x 16 front tires and 14.9 x 24, 8 PR, R+ rear tires.

*BACKHOE BUCKETS

12", 18", 24", 30", 36" trenching. 12", 16", 30". bellhole. 36" bellhole-graveyard.

| ENGINE | Gasoline | Diesel | |
|---------------------------------|------------------------------|--------------------|--|
| Make and model | Case 251G | Case 267D | |
| *Fuel | gasoline, reg. | diesel, No. 2 | |
| (1) Maximum horsepower | 71 @ 2000 RPM | 71 @ 2000 RPM | |
| (2)*Rated horsepower | _ | _ | |
| (SAE net) | 63.5 @ 2000 RPM | 64 @ 2000 RPM | |
| (3)*Torque, maximum, lbsft | 203 @ 1300 RPM | 205 @ 1300 RPM | |
| (3) Torque, governed RPM, | | | |
| lbsft | 180 @ 2000 RPM | 182 @ 2000 RPM | |
| *Cylinders, no. (valve in head) | 4 | 4 | |
| Bore and stroke | 4" × 5" | 41/8" × 5" | |
| *Displacement (cu. in.) | 251 | 267 | |
| Compression ratio | 7.5 to 1 | 15 to 1 | |
| Starting | 12-V electric | 12-V electric | |
| Battery | . (1 — 12 volt) (2 — 6 volt) | | |
| | 90 amp. hrs. | 150 amp. hrs. | |
| Fuel induction | up-draft carburetor | | |
| Fuel supply | low pressure pump | | |
| Ignition | coil and distributor | diesel cycle | |
| Air cleaner | dry type | | |
| Oil filter — full flow type | . renewable cartridge | | |
| Novernor | . mechanical flyweight | | |
| ubrication | . positive pressure | | |
| Cooling system, type | pressurized, 7 psi | lubricated bearing | |

positive pressure
pressurized, 7 psi lubricated bearing Cooling system, type (1)Manufacturer's rating of maximum engine horsepower at flywheel when equipped with oil, water and fuel pumps, with fuel set at approximate mean delivery. Corrected to sea level — 29.92" Hg, and 60°F, dry air.

(2)SAE net flywheel horsepower of engine as applied to this vehicle when equipped with operating accessories including oil, water and fuel pumps, generator, air cleaner, fan and muffler. Corrected to 500' altitude with .28" Hg. vapor pressure (29.38" Hg. observed barometer) and 85°F. air (per SAE J816a).

(3)Corrected to same temperature and altitude as shown in (2) above.

| *FUEL TANK (capacity): U.S. gal 23 | Imperial gal 19.2 |
|--|-------------------|
| *STEERING Type (standard) Turning ratio (stop to stop) | |
| BRAKES Foot, triple disc, differential type. Individual repark or travel, parking lock | |

*Transmission — Sliding gear with full power shuttle.

Torque converter — Single stage hydrokinetic type (2.42 to 1 ratio).

*Final drive (type) — Spur gear.

Shuttle — Full power (hydraulic clutch).

TRAVEL SPEEDS (mph)
With 14.9 x 24 tires @ governed engine speed.

| | | | *** |
|---------|-----|------|------|
| lst | 2nd | 3rd | 4th |
| Forward | 3.6 | 8.0 | 17.0 |
| Reverse | 4.7 | 10.3 | 21.7 |

"TIRES

Standard: Front. 11.00L x 16, 10 PR, multi-rib Rear. 14.9 x 24. 8 PR, R4
Optional: Front 8.25 x 15, 12 ply truck tire
 Optional: Front
 8.25 x 15, 12 ply truck tire

 Rear
 12.00 x 24, 8 ply, sure-grip grader

 16.9 x 24, 8 PR, R4

TREAD

HYDRAULIC SYSTEM

°**Pump:** Front mounted, direct drive, vane-type, 27 GPM @ 2000 RPM @ 1600 PSI on loader and 1950 PSI on backhoe with Case Hi-Lo TCH Oil.

Loader control valve: 2 or 3 spool (depending on model). Lift lever with positive hold "float" and "lift" positions. "Relief valve setting @ 1600 PSI @ 27 GPM. Automatic return-to-dig feature optional.

Backhoe control valve: Heavy duty, six spool sectional valve. Exclusive foot swing pedals (two lever control optional) control backhoe swing with cushioned stops. "Relief valve setting @ 1950 psi @ 27 gpm.

Hydraulic lines: Hydraulic lines are steel tubing with brazed or flared fittings and wire braid, high pressure hose with crimped, full-flow fittings.

Reservoir: Refill capacity is 32 U.S. quarts "with wire mesh element on suction side, 25 micron element on return side.

Loader and backhoe cylinders: Double-acting with hardened and chrome-plated rods to resist damage, increase strength and resist corrosion. Cylinders have micro-smooth bore for long packing life.

LOADER CYLINDERS

BACKHOE CYLINDERS BACKHOE CYLINDERS

80om cylinder (1) 4½" dia. x 39%, stroke, 2½" dia. rod

Crowd cylinder (1) 4½" dia. x 35½ stroke, 2½" dia. rod

Bucket cylinder (1) 4" dia. x 27½ stroke, 2½" dia. rod

Swing cylinders (2) 4" dia. x 11" stroke, 1¾" dia. rod

Stabilizer cylinders (2) 3½" dia. x 16¾ stroke, 1¾" dia. rod

Loader Cylinder Design and Packing: Hardened and chrome plated rods.

Cylinders equipped with chevron (4 stack) seal packing and guide rings

for positive action. Wiper rings and self-locking nut on rod.

Backhoe Cylinder design and packing: Easy to service with threaded end cap. Hardened and chrome plated rods. Cylinder equipped with two-way, triple seal packing and phenolic guide rings for positive action. Nylon wiper rings and self-locking cap screw or nut on rod with "U" cup packing.

STANDARD LOADER/BACKHOE EQUIPMENT

STANDARD LOADER/BACKHOE EQUIPMENT
Integrally designed, 5000 lbs. (SAE rated) lift capacity loader to full height, less bucket, with controls and hydraulics. 14½ Case-built backhoe, less bucket, with controls and hydraulics. Stabilizer pads (cleated). Exclusive foot swing. Heavy duty industrial grille. Choice of Case-built gasoline or diesel engines. Detented float position in control valve. Underneath muffler. Electric fuel pump. Anti-freeze solution to —20°F. Oil filters (engine and hydraulic systems). Air cleaner (dry type). Service indicator for dry type air cleaner. Tachometer (engine speed indicator). Hourmeter. Engine oail pressure gauge. Engine oil pressure and engine heat indicator warning lights visible to backhoe operator. Fuel level gauge. Ammeter. Light switch. Circuit breaker. Engine heat indicator gauge. Torque converter oil temperature gauge. Clutch pressure gauge. Electric manifold pre-heater (diesel). Rear wheel fenders. Engine side panels. Instrument panel light. Two headlamps (shock mounted). Two rear working lights (shock mounted). Stoplight and taillight. Hand and foot throttles. "All traction utility" rear tires, 14,9 x 24, 8 PR. 11,00 L x 16, 10 PR. 1, front tires. Comfortable, weather-resistant, easy-ride seat (bucket type). Single turn-around seat for loader or backhoe operations. Floor plates. Torque converter. Full power shuttle. 4-speed transmission. Heavy duty 40,000 lb. dynamic load front axie with 70¾" tread. 12 volt starter, alternator and voltage regulator. Hydrostatic steering. Fuel filters (diesel). Suction type fan. Foot brake. Key switch. Safety start mechanism. Push button starter switch.

OPTIONAL OR EXTRA LOADER EQUIPMENT

Motor grader and "all traction utility" rear tires. Truck tread front tires. Tool box. Return-to-dig mechanism for loader. 2850 lb. cast rear counterweight for use when backhoe is removed. 3-spool loader control valve in lieu of 2 spool valve. Cab, cab heater, cab dome light, cab defroster. Choice of 1 cu. yd. or 1½ cu. yd. loader buckets (SAE rating — nominal heaped). Digging teeth for 1 cu. yd. loader bucket.

OPTIONAL OR EXTRA BACKHOE EQUIPMENT

OPTIONAL OR EXTRA BACKHOE EQUIPMENT 161/2 (Sase-built Extendahoe. Backhoe dipper light, Street-cemetery pads for stabilizers. Rubber pads for street-cemetery pads. §Earth Auger. Two lever backhoe control. Heavy duty points for backhoe bucket teeth (field installed only). Choice of 12" to 36" trenching buckets to 10.56 cu. ft. 12" to 36" bellhole buckets to 4.32 cu. ft.

§Equipment approved for use with the 680 Construction King, but not manufactured or warranted by J. I. Case Co. See your dealer for details. *These specifications conform to IEMC definitions. IEMC definitions are

not established for specifications not preceded by an *

IMPORTANT

J. I. Case Co. reserves the right to change these specifications without notice and without incurring any obligation relating to such changes.

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