

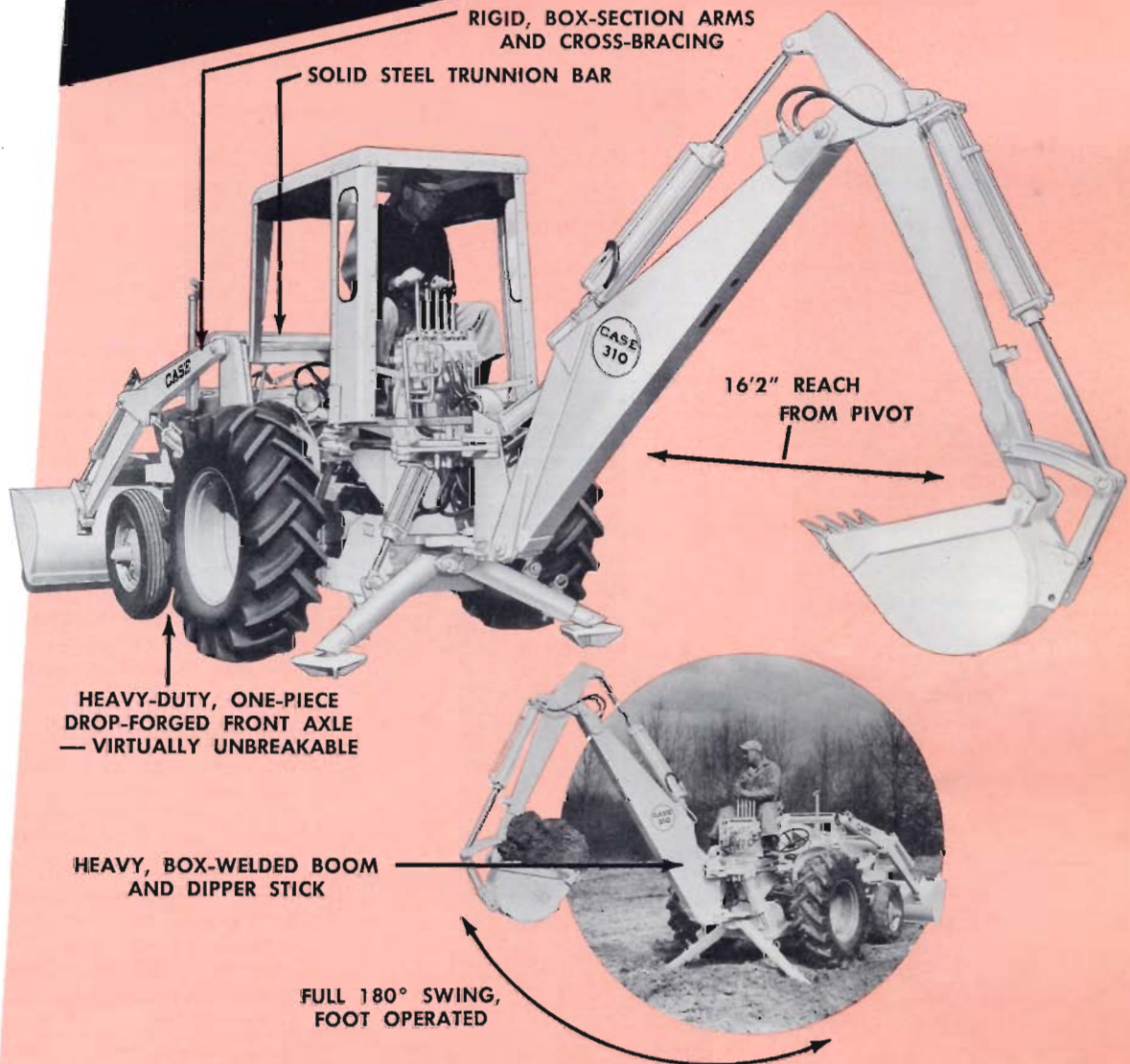
CASE[®] Utility

BACKHOE-LOADER

Model 310B Wheel
42 hp HIGH-TORQUE ENGINE

FEATURES

- Backhoe reaches farther, cuts deeper, loads into higher trucks. Independently controlled telescoping stabilizers provide firm footing and balance. Separate high-mounted seat insures excellent visibility. 9 sizes and types of backhoe buckets — digging, bell-hole, grave, combination — to suit every purpose.
- Smooth 180° pivot-swing with foot-operated controls . . . for more precise cutting, extra dig-and-dump cycles per hour. Swing is hydraulically operated thru lever linkage that holds boom firm and steady.
- Husky, deep box-section boom and dipper stick are reinforced with gussets and welded-in steel castings at all strain points . . . have hardened pins and bushings at points of greatest wear. Backhoe can be removed in 10 minutes.
- Loader lifts jumbo loads, higher than any competitive-make unit. Bucket rolls back 13° at ground, dumps clean at 45°, clears 9'1½" after dump. Choice of 11, 13, 15, 18, 21, 27 cu. ft. SAE rated buckets.
- Unit-welded, wrap-around loader main-frame won't spread or distort. One hydraulic system serves both loader and backhoe . . . tractor-mounted hydraulic pump eliminates stresses that cause undue wear and leakage.
- Optional power steering and shuttle transmission help you maneuver easier . . . speed forward-reverse cycles . . . let you back-up 24% faster than forward in each gear.



"MATCHED" TRENCHING-LOADING TEAM... HIGHEST OUTPUT, LOWEST COST

Here's a heavy-duty digging-loading combination that cuts more trench, loads more yards per day than competitive-make machines . . . yet is *lowest-priced in its class*. Case-built backhoe digs 12½' deep, reaches over 16' from pivot, and can load a truck 10'7" high. You make *more dig-and-dump cycles per hour* because smooth 180° swing is foot-operated, leaving hands free to maneuver bucket and dipper stick while swinging. The Case-built Loader — with 13-cu. ft. SAE capacity bucket — *loads out bonus yardage on every "pass"*, maneuvers faster to make more round-trips. Extra leverage, teamed with big 19 GPM hydraulic pump, exerts 3000-lb. breakaway force . . . lifts 1500-lb. loads to clear 10'9¾" height. The entire Utility 310B unit — engineered, built, powered and warranted by J. I. Case — is husky and strong to maintain high rate of production, with *minimum upkeep and repair expense*. See your nearest Case Utility Dealer for a free demonstration . . . TODAY!

MANUFACTURED AND WARRANTED BY

J. I. CASE CO., Utility Sales Division, Racine, Wis., U.S.A.

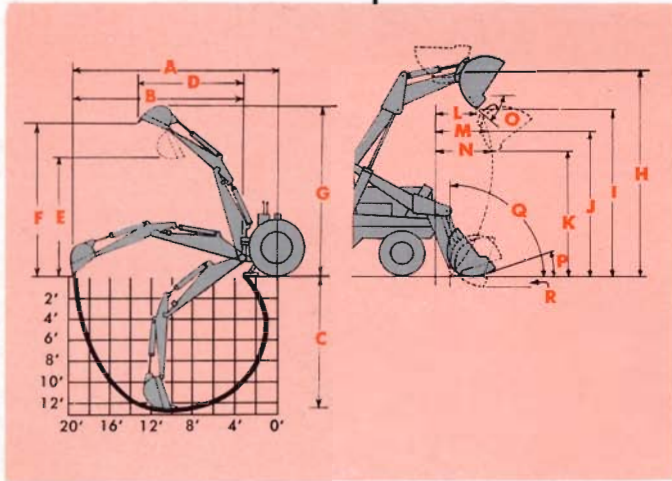
1st in quality for over 100 years



GENERAL SPECIFICATIONS

Model 310B

Utility
BACKHOE-LOADER



A	B	C	D	E	F	G	H	I
18'7"	16'2"	12'6"	9'10"	10'7"	15'0"	15'6"	10'9 $\frac{3}{4}$ "	9'1 $\frac{1}{2}$ "
J	K	L	M	N	O	P	Q	R
8'	7'	17"	25 $\frac{3}{4}$ "	30 $\frac{1}{4}$ "	45°	13°	90°	4"

BACKHOE OPERATING DATA

Buckets available, width..... 14", 16", 19", 24", 30";
16" and 30" bell-hole; 38"
grave; 36" comb. b-h and gr.

Swing arc, uninterrupted..... 180°

Stabilizer spread, ground level..... 8'2"

Vertical cut on max. grade of..... 10°

LOADER OPERATING DATA

Buckets, cu. ft.

SAE rated capacity.....	11	13	15	18	21	27
SAE struck capacity.....	9	11	12	15	17	23
width.....	47 $\frac{3}{8}$ "	56 $\frac{1}{8}$ "	63 $\frac{3}{8}$ "	63 $\frac{3}{8}$ "	79 $\frac{3}{8}$ "	79 $\frac{3}{8}$ "

Lift capacity to full height..... 1500 lbs.

Maximum breakaway (to 12")..... 3000 lbs.

Cycle: lift..... 6 $\frac{1}{2}$ sec.

dump..... 4 sec.

lower..... 4 sec.

DIMENSIONS AND WEIGHT

Width, overall (travel pos.)..... 79"

Height, overall (travel pos.)..... 11'7"

Height, tractor only..... 58"

Length, overall (travel pos.)..... 21'4"

Tread, front..... 47 $\frac{1}{2}$ "

rear..... 64 $\frac{1}{4}$ "

Tires, front, std..... 7.50-16, 6 ply

rear..... 13-24, 6 ply

Wheelbase..... 75 $\frac{1}{4}$ "

Ground clearance..... 12"

Weight, approx..... 7600 lbs.

ENGINE

Make and model..... Case G-148

Fuel..... Gasoline

Horsepower, maximum (gross) @ 1900 rpm..... 42

Drawbar horsepower..... 30.92

Torque, maximum, ft.-lbs..... 128 @ 1200 rpm

Cylinders, no. (valve-in-head)..... 4

Bore and stroke..... 3 $\frac{3}{8}$ " x 4 $\frac{1}{8}$ "

Displacement (cu. in.)..... 148

Compression ratio..... 7.25 to 1

Main bearings, steel-backed (3)..... 2 $\frac{1}{4}$ " dia. x 1 $\frac{3}{4}$ "

Crankpin bearings, steel-backed (4)..... 2" dia. x 1 $\frac{3}{8}$ "

Ignition..... Coil and dist.

Starting..... 12-volt electric

Carburetor..... Up-draft

Fuel supply..... Gravity

Air cleaner..... Oil bath

Oil filter, bypass type..... Renewable screw-in cartridge

Governor..... Mechanical fly weight

Lubrication..... Positive pressure

Cooling system, type..... Pressurized, 4 lb. capacity

pump..... Vane, perm. lub. brng.

FUEL TANK, capacity..... 13 gal.

POWER TRAIN

Clutch, friction, single dry disc, ferrometallic..... 9 $\frac{1}{4}$ " dia.

Transmission..... Sliding spur gear

Travel speeds:	Standard transmission	Optional shuttle transmission	Optional Tripl-Range transmission
Forward, mph	(4) 2.8 to 13.4	(8) 1.7 to 18.3	(12) 1.5 to 22.9
Reverse, mph	(1) 3.3	(8) 2.1 to 22.8	(3) 1.9 to 5.4

BRAKES, foot, double-disc, individual rear wheel, lock-together for travel, parking lock..... 6" dia.

STEERING

Type, standard..... Cam and lever gear

optional..... Power-assist

Turn radius, steered..... 10'

HYDRAULIC SYSTEM

Backhoe cylinders, double-acting; chrome-plated rods:

Boom.....	(1) 3 $\frac{1}{2}$ " x 35", 1 $\frac{3}{4}$ " rod
Crowd.....	(1) 4" x 26 $\frac{1}{8}$ ", 1 $\frac{3}{4}$ " rod
Bucket.....	(1) 3 $\frac{1}{2}$ " x 27 $\frac{1}{4}$ ", 1 $\frac{3}{4}$ " rod
Swing.....	(2) 2 $\frac{1}{2}$ " x 16 $\frac{1}{2}$ ", 1 $\frac{1}{4}$ " rod
Stabilizers.....	(2) 3" x 9", 1 $\frac{1}{2}$ " rod

Loader cylinders, double-acting; chrome-plated rods:

Lift.....	(2) 2 $\frac{1}{2}$ " x 31 $\frac{1}{8}$ ", 1 $\frac{1}{2}$ " rod
Bucket.....	(2) 2 $\frac{1}{2}$ " x 20 $\frac{1}{8}$ ", 1 $\frac{1}{4}$ " rod

Cylinder design and packing: Easy-to-service with removable end-caps securely joined by four high-strength through bolts. Hardened and chrome-plated rods equipped with multiple chevron packing and self-locking nuts to prevent leaks.

Reservoir: Built into loader frame. 11 gal. capacity. Has full-flow oil filter.

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 provide 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 1600 psi.

Pump: Tractor-mounted, direct drive with Morflex coupling, gear-type, 19 gpm capacity @ 1900 rpm.

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

STANDARD EQUIPMENT: Upright muffler, anti-freeze solution, grille guard, radiator grille screen assembly, 2 headlights, heat indicator gauge, ammeter, fuel gauge, oil pressure gauge, engine speed indicator, hour meter, speedometer, swinging drawbar, large safety platform and rear fenders, easy-ride push-back safety seat, tool box, foot throttle, Model 31 backhoe less bucket, Model 31 loader less bucket.

OPTIONAL TRACTOR EQUIPMENT: 900-lb. cast rear counterweight, weight box, Eagle Hitch, 3-point hitch, shuttle transmission, Tripl-Range transmission, industrial tread tires, PTO, power steering, all-weather cab, auxiliary hydraulics, cigarette lighter, flashing warning signal.

OPTIONAL LOADER EQUIPMENT: Buckets (see operating data), bucket spill guard, crane boom, sweeper, dozer blade, log fork, pallet fork, manure fork, dirt plate for manure fork.

OPTIONAL BACKHOE EQUIPMENT: Buckets (see operating data).

OTHER OPTIONAL EQUIPMENT: Hydraulic and mechanical side-mounted mowers, rear-mounted mechanical mower, 5' rear-mounted rotary mower, all-purpose blade, scarifier-scraper, Terra-Scoop, Case agricultural implements, 5-ton capacity tilt trailer.

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

Sold and Serviced by: