

# CASE<sup>®</sup>

## MODEL 430 LOADER- BACKHOE

10' backhoe  
1500-lb. loader

### FEATURES

- Backhoe power, reach, and loading height far exceed that of competitive-make "economy" machines. Separate, high-mounted seat insures excellent view of work. Independent, telescoping stabilizers provide firm stance. 8 bucket sizes and designs suit every digging need.

- Smooth 180° pivot-swing with foot-operated controls ... for precise digging, extra dig-and-dump cycles per hour. Swing is positive hydraulic operated, holds boom firm and steady.

- Deep box-frame alloy steel boom and dipper stick engineered for minimum stress on welds ... have hardened pins and bushings at wear points.

- Loader lifts jumbo loads faster than competitive-make units. Bucket rolls back 20° at ground level ... dumps clean at 45°, clears 8'5" after dumping. Four bucket sizes to fill every need.

- Fabricated loader frame with solid steel trunnion bar won't spread or distort. Simplified hydraulic system.

- Powerful gasoline or diesel engines develop more torque at lower rpm than other engines in their class ... keep pulling, reduce clutching and shifting. Gear-lever operated safety starting.

- Optional power steering and synchronized shuttle transmission help you maneuver, turn, and reverse direction easily, speed your dig-and-dump cycles.

### BIG TRENCHING-LOADING CAPACITY AT AMAZINGLY LOW PRICE

For trenching down to 10', backfilling and loading-out material, you'll find the "matched" Case 430 Backhoe-Loader a "blue chip" investment — a high-output machine that's inexpensive to own, operate, and maintain. Case-built backhoe cuts extra lineal feet of trench from one position, reaches over 15' from pivot, casts or loads trucks over 10' high. You dig-and-dump faster because smooth 180° swing is foot-operated, leaving hands free to work bucket and dipper stick while swinging. The Case-built 1500-lb. loader gets more heap on the bucket, lifts faster, dumps cleaner, and backs-off from an 8'-high truck without stopping to retract the bucket. (Double-acting loader lift cylinders standard on backhoe model.)

The entire Model 430 unit — engineered, built and powered by J. I. Case — is rugged and strong to keep production high, maintenance and repair costs low. See your Case Dealer for a demonstration.



\*See specifications, page 2

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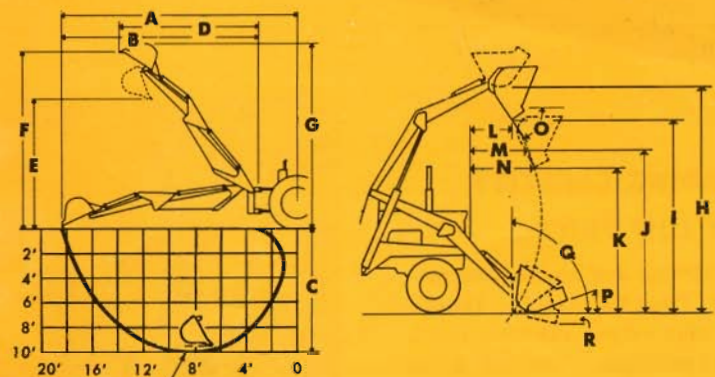
**J. I. CASE CO., RACINE, WISCONSIN, U.S.A.**

1<sup>st</sup> in quality for over 120 years





# MODEL 430 LOADER-BACKHOE



DIGGING DEPTH AS DEFINED BY INDUSTRIAL EQUIPMENT MANUFACTURERS COUNCIL (IEMC)

A	B	C	D	E	F	G	H	I
18'5"	15'6"	10'	11'	11'3"	14'4"	15'	10'3"	8'5"
J	K	L	M	N	O	P	Q	R
8'	7'	28"	29"	33"	45°	20°	90°	8"

## BACKHOE OPERATING DATA

Buckets available, width... 12", 18", 24", 30" digging buckets; 12", 16" and 30" bellhole; 36" comb. b-h and grave  
 Swing arc, uninterrupted... 180°  
 Digging depth — Mfrs. rated... 10'  
 \*IEMC definition... 9'6"  
 Stabilizer spread, ground level... 8'2"  
 Vertical cut on maximum grade of... 10°  
 Breakout, maximum... 10,000 lbs.

\*Industrial Equipment Manufacturers Council.

## LOADER OPERATING DATA

	cu. ft.	cu. yd.
Buckets, SAE rated capacity...	11	13
SAE struck capacity...	9	11
width	47 <sup>3</sup> / <sub>8</sub> "	56 <sup>1</sup> / <sub>8</sub> "
Dump angle @ 7' and 8'...	55°	45°
Dump reach @ 45°, 7' and 8'...	37 <sup>1</sup> / <sub>2</sub> "	29"
Lift capacity to full height...	1500 lbs.	
Breakaway, maximum (to 12")...	3400 lbs.	
Cycle: lift to full height...	4.7 sec.	
dump	2.0 sec.	
lower	1.5 sec.	

NOTE: Data taken with 14.9 x 24 rear and 7.50 x 16 front tires.

## DIMENSIONS AND WEIGHT

(Tractor, loader and backhoe)  
 Width overall (travel pos.)... 81"  
 Height, overall (travel pos.)... 11'  
 Height, tractor only (over steering wheel)... 56<sup>1</sup>/<sub>2</sub>"  
 Length, overall (travel pos.)... 22'4"  
 Tread, front... 47<sup>1</sup>/<sub>2</sub>"  
 rear... 66"  
 Tires, front, standard... 6.00-16, 6 ply  
 rear, standard... 12.4-24, 6-ply  
 front, optional... 7.50-16, 6 ply  
 rear, optional... 14.9-24, 6 ply  
 Wheelbase... Diesel 76<sup>1</sup>/<sub>2</sub>"... Gas 75<sup>1</sup>/<sub>4</sub>"  
 Ground clearance... 11<sup>1</sup>/<sub>2</sub>"  
 Weight approx. gasoline 6510 lbs. diesel 6700 lbs.

## ENGINE

	gasoline	diesel
Make and model...	Case: G-148B	Case: G-188D
Fuel	Gasoline, reg.	Diesel No. 2
**HP, maximum (gross)...	38.5 @ 1750 rpm	41.5 @ 1750 rpm
Torque, maximum, lbs.-ft.	128 @ 1200 rpm	133 @ 1300 rpm
Cyl., no. (valve-in-head)...	4	4

\*\*See level (calculated) max. hp (based on 60° F. and 29.92" Hg.). Manufacturer's rating.

Bore and stroke	3 <sup>3</sup> / <sub>8</sub> " x 4 <sup>1</sup> / <sub>8</sub> "	3 <sup>13</sup> / <sub>16</sub> " x 4 <sup>1</sup> / <sub>8</sub> "
Displacement, cu. in.	148	188
Compression ratio	7.1 to 1	17.5 to 1
Starting	12-volt electric	12-volt electric
Fuel induction	Up-draft carb.	Injectors (4)
Fuel supply	Gravity	Injection pump
Ignition	Coil & dist.	Diesel cycle
Air cleaner	Oil bath	Oil bath
Oil filter, full-flow type	Renew. cart.	Renew. cart.
Governor	Mech. flyweight	Mech. flyweight
Lubrication	Positive pressure	Positive pressure
Cooling system, type	Pressurized, 4 psi	Pressurized, 4 psi
capacity	13 quarts	13.5 quarts
pump	Imp. perm. lubr. brng.	Imp. perm. lubr. brng.

## POWER TRAIN

Clutch, friction, single dry disc, ferrometallic... 11" dia.  
 Transmission... Sliding spur gear

Travel speeds:	Standard Transmission	Optional Shuttle Transmission	Optional Tripl-Range Transmission
forward, mph	(4) 2.4 to 11.3	(8) 1.5 to 15.4	(12) 1.4 to 18.8
reverse, mph	(1) 2.8	(8) 1.8 to 19.3	(3) 1.7 to 4.7

**BRAKES**, foot, band/disc, ferrometallic. Individual rear wheel, lock-together for travel. Parking lock... 6<sup>1</sup>/<sub>2</sub>" dia.

## STEERING

Type, standard... Cam and lever gear  
 optional... Power assist  
 Turn radius, steered (tractor only)... 10'

## HYDRAULIC SYSTEM

**Cylinders**, chrome-plated rods, double-acting

Backhoe boom	(1) 3" x 31 <sup>3</sup> / <sub>4</sub> ", 1 <sup>3</sup> / <sub>4</sub> " rod
Backhoe crowd	(1) 3 <sup>1</sup> / <sub>2</sub> " x 38 <sup>3</sup> / <sub>8</sub> ", 2" rod
Backhoe bucket	(1) 3" x 26 <sup>3</sup> / <sub>8</sub> ", 1 <sup>1</sup> / <sub>2</sub> " rod
Backhoe swing	(2) 2 <sup>1</sup> / <sub>2</sub> " x 15 <sup>11</sup> / <sub>16</sub> ", 1 <sup>1</sup> / <sub>4</sub> " rods
Backhoe stabilizers	(2) 2 <sup>1</sup> / <sub>2</sub> " x 11", 1 <sup>1</sup> / <sub>4</sub> " rods
Loader, lift	(2) 2 <sup>1</sup> / <sub>2</sub> " x 32 <sup>1</sup> / <sub>4</sub> ", 1 <sup>1</sup> / <sub>2</sub> " rods
Loader bucket	(1) 3" x 14 <sup>1</sup> / <sub>16</sub> " x 1 <sup>1</sup> / <sub>2</sub> " rod

**Controls:** Heavy-duty 6-spool valve provides precise operation of backhoe boom, crowd, bucket, and stabilizer cylinders. Foot pedals control backhoe swing with feathered action and cushioned stops. Main pressure 1650 psi. Loader's 4-position, double-spool valve with positive-hold "float" position and built-in relief; is mounted for right-hand operation. Primary relief setting, 1500 psi.

**Reservoir:** Built into loader frame. 7 gal. capacity. Has full-flow oil filter.

**Pump:** Tractor-mounted, direct drive with flexible couplings, gear-type, 16.5 gpm capacity @ 1750 rpm.

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

**STANDARD EQUIPMENT:** Choice of diesel or gasoline engine. High-lug tires, up-right muffler, rain cap, anti-freeze solution, oil pressure gauge, hydraulic filter indicator gauge, heat indicator gauge, generator indicator light, engine speed indicator, foot throttle, easy-ride safety seat, lights, fenders, tool box, front counterweight, backhoe and loader with controls (less buckets) and hydraulics.

**OPTIONAL TRACTOR EQUIPMENT:** Power steering, shuttle transmission, Tripl-Range transmission, high-speed 4th gear for std. trans. (15.4 mph), "All Traction Utility" or non-directional industrial tread tires, front wheel weights, grille guard, weight box, counterweight, PTO, auxiliary hydraulics, Draft-O-Matic hydraulic control and 3 point hitch.

**OPTIONAL LOADER EQUIPMENT:** Buckets (see operating data), bucket spill guards, digging teeth, pallet fork, crane boom, dozer blade, manure fork, dirt pan for manure fork.

**OPTIONAL BACKHOE EQUIPMENT:** Buckets (see operating data), street-cemetery pad for stabilizers.

**IMPORTANT:** J. I. Case Co. reserves the right to change these specifications without notice and without incurring any obligation relating to such changes. Applicable specifications conform to Industrial Manufacturers Council definitions.

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