

# CASE<sup>®</sup>

Industrial

## BACKHOE-LOADER

MODEL  
**W-3**

*52 hp gasoline or diesel  
with torque converter,  
shuttle-shift and  
power-steer*



The Case W-3 backhoe-loader is fast, sturdy, productive — yet low priced. It features a 14' backhoe with exclusive foot-controlled, "direct-push" swing cylinders providing a cushioning effect at end of swing stroke, plus a rugged, 2500-lb.-lift-capacity loader with choice of four self-leveling buckets. The W-3 tractor itself is powered by high-torque, Case-built gasoline or diesel engine driving through a torque converter that instantly and automatically increases power, adjusts speeds to loads. Other tractor features include 8-speed shuttle-transmission, power-steer, and fool-proof safety starter.

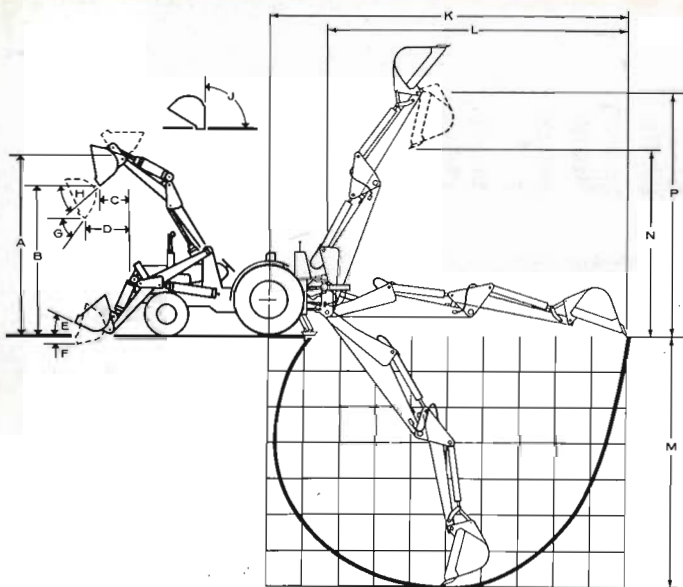
### FEATURES

- **Heavy-duty backhoe** with alloy steel tower has a lift capacity of 3000 lbs., digs to 14', has a dump clearance of over 10'10", reaches 16'9" from pivot. New linkage provides plenty of power for uphill swings with full bucket — even from 90° angle. Eight (18" to 38") alloy steel buckets to choose from.
- **Sturdy loader**, features rugged frame, with straddle-mounted pins and bushings for maximum strength, 7000-lb. capacity drop-forged front axle and extra-heavy front wheel bearings. Interchangeable 18-cu. ft. tread-width, 18-cu. ft. light materials, 15-cu. ft. heavy materials or 1-yd. snow buckets are available.

# CASE<sup>®</sup>

J. I. CASE CO., RACINE, WIS.

# Specifications for CASE W-3 BACKHOE-LOADER



## LOADER DATA

|  |                                     |
|--|-------------------------------------|
| A. Bucket clearance (maximum lift).....  | 10'10 <sup>5</sup> / <sub>8</sub> " |
| B. Dump clearance (maximum lift).....    | 8'7"                                |
| C. Dumping reach (maximum lift).....     | 17 <sup>1</sup> / <sub>2</sub> "    |
| D. Dumping reach (7' dump height).....   | 27 <sup>3</sup> / <sub>4</sub> "    |
| E. Breakout angle (rollback).....        | 30°                                 |
| F. Digging depth below ground.....       | 5 <sup>1</sup> / <sub>2</sub> "     |
| G. Discharge angle (7' dump height)..... | 66°                                 |
| H. Discharge angle (maximum lift).....   | 45°                                 |
| J. Grading angle (ground level).....     | 84°                                 |

## BACKHOE DATA

|   |       |
|---|-------|
| K. Reach from axle.....                           | 20'   |
| L. Reach from pivot.....                          | 16'9" |
| M. Maximum digging depth.....                     | 14'   |
| N. Clearance, full lift with bucket "tucked"..... | 11'2" |
| P. Clearance, full lift with bucket extended..... | 16'4" |

## LOADER OPERATING DATA

|   |              |
|---|--------------|
| Bucket sizes:   | Capacity     |
|   | (SAE Rating) |
| Tread width (73 <sup>3</sup> / <sub>8</sub> " wide).....    | 18 cu. ft.   |
| Heavy material (63 <sup>3</sup> / <sub>8</sub> " wide)..... | 15 cu. ft.   |
| Dry material (63 <sup>3</sup> / <sub>8</sub> " wide).....   | 18 cu. ft.   |
| Snow (79 <sup>3</sup> / <sub>8</sub> " wide).....           | 1 cu. yd.    |
| Breakout (up to 12") SAE Rated.....                         | 6000 lbs.    |
| Maximum lift to full height.....                            | 2500 lbs.    |
| Pump capacity @ 2100 rpm.....                               | 21 gpm       |
| Lifting time.....   | 5.1 sec.     |
| Dumping time.....   | 2.5 sec.     |
| Lowering time.....  | 3.8 sec.     |

## BACKHOE OPERATING DATA

|                                      |  |
|--------------------------------------|--|
| Alloy steel buckets, width.....      | 18", 24", 30" std.; 12", 16" and 30" bell-hole; 38" grave; 36" comb. b-h & gr. |
| Swing arc, uninterrupted.....        | 180°   |
| Stabilizer spread, ground level..... | 10'  |

## ENGINE

|  | Gasoline  | Diesel  |
|--|---|---|
| Make and Model.....                          | Case G-159  | D-188   |
| *Horsepower, maximum (gross) @ 2100 rpm..... | 52  | 52  |
| net hp @ 2100 rpm.....                       | 47  | 47  |
| Maximum torque, lbs.-ft.....                 | 138.5   | 138.5   |
| Maximum torque, rpm.....                     | 1200  | 1400  |
| Bore and stroke.....                         | 3 <sup>1</sup> / <sub>2</sub> " x 4 <sup>1</sup> / <sub>8</sub> " | 3 <sup>1</sup> / <sub>8</sub> " x 4 <sup>1</sup> / <sub>8</sub> " |
| Displacement.....                            | 159 cu. in.   | 188 cu. in.   |
| Electric system.....                         | 12 volt   | 12 volt   |
| Cooling system capacity.....                 | 13 qt.  | 14 qt.  |

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

## STEERING

|  |       |
|--|-------|
| Cam and lever with hydraulic power assist..... |       |
| Turning radius.....                            | 10'0" |

## TRANSMISSION

Sliding spur gear with dual range and synchronized shuttle-shift.

## BRAKES

Individual 6" diameter double disc.

## TRAVEL SPEEDS @ 2000 rpm with 14.9 x 24 tires.

### Direct drive

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

## DIMENSIONS AND WEIGHTS

|  |                                     |
|--|-------------------------------------|
| Length (overall, travel position).....                             | 22'5"                               |
| Width (overall, travel position).....                              | 7'9"                                |
| Height (overall, travel position).....                             | 11'7"                               |
| Weight (with 15 cu. ft. loader bucket and 24" backhoe bucket)..... | 8642 lbs. (gas); 8736 lbs. (diesel) |
| Wheel base.....  | 75 <sup>1</sup> / <sub>2</sub> "    |
| Ground clearance.....  | 12"                                 |

## HYDRAULIC SYSTEM

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

|   |  |
|---|--|
| Boom.....   | (1) 4" x 39 <sup>1</sup> / <sub>4</sub> ", 1 <sup>3</sup> / <sub>4</sub> " rod                               |
| Crowd.....  | (1) 4" x 32", 2" rod   |
| Bucket.....   | (1) 3 <sup>1</sup> / <sub>2</sub> " x 27 <sup>1</sup> / <sub>4</sub> ", 1 <sup>3</sup> / <sub>4</sub> " rod  |
| Swing.....  | (2) 3" x 15 <sup>5</sup> / <sub>8</sub> ", 1 <sup>1</sup> / <sub>2</sub> " rods                              |
| Stabilizers.....  | (2) 3 <sup>1</sup> / <sub>2</sub> " x 16 <sup>3</sup> / <sub>8</sub> ", 1 <sup>3</sup> / <sub>4</sub> " rods |
| Loader cylinders, twin double-acting; chrome plated rods: |  |
| Lift.....   | (2) 3" x 31 <sup>1</sup> / <sub>2</sub> ", 1 <sup>1</sup> / <sub>2</sub> " rods                              |
| Bucket.....   | (2) 2 <sup>1</sup> / <sub>2</sub> " x 23 <sup>1</sup> / <sub>8</sub> ", 1 <sup>1</sup> / <sub>2</sub> " rods |

Reservoir: Mounted in sub-frame. 12-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. Loader relief — 1950 psi, Backhoe relief — 1850 psi.

Pump: Tractor-mounted direct-drive gear-type, 21 gpm capacity @ 2100 rpm. Operating pressure 1950 psi.

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

STANDARD EQUIPMENT: Standard Industrial tractor, 8-speed shuttle transmission, 7.50 x 16 10-ply front tires, 14.9 x 24 6-ply rear tires, power steering, loader, hydraulic system, bucket with hydraulic controls and couplers to connect to front-end loader system.

OPTIONAL EQUIPMENT: Pto, Eagle hitch, flexible 3-pt. hitch, weight boxes, auxiliary hydraulics, portable hydraulic cylinders, hydraulic and mechanical side-mounted mowers, all-purpose blade, scarifier-scraper, rear-mounted rotary mower.

Loader: 15 cu. ft. heavy material bucket, 2<sup>1</sup>/<sub>2</sub>-yd. dry material bucket, 1-yd. snow bucket. Crane boom, dozer blade, log fork, pallet fork.

Backhoe: Buckets available, width — 18", 24", 30" std. . . 12", 16", 30" bellhole . . . 38" grave . . . 36" bellhole-grave.

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

Sold and Serviced by: