Hydrostatic drive
Choice of Case water-cooled engines — 32 net hp (23.9 kW) gasoline — 34 net hp (25.4 kW) diesel

54" (1372 mm) wide
Low profile — 80.75" (2051 mm) to top of ROPS
ROPS, parking brake, tool tach and hourmeter — standard

Unit shown is equipped with non-standard items.
1835 UNI-LOADER SPECIFICATIONS

**ENGINES**

<table>
<thead>
<tr>
<th>Case 148G (Gasoline)</th>
<th>Case 188D (Diesel)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum rated horsepower</td>
<td>32 @ 2100 rpm (23.9 kW @ 2100 rpm)</td>
</tr>
<tr>
<td>SAE net</td>
<td>34 @ 2100 rpm (25.4 kW @ 2100 rpm)</td>
</tr>
<tr>
<td>Bore and stroke</td>
<td>3.375&quot; x 4.125&quot;</td>
</tr>
<tr>
<td>(85.7 mm x 104.8 mm)</td>
<td>(96.8 mm x 104.6 mm)</td>
</tr>
<tr>
<td>Displacement</td>
<td>148 in³ (2425 cm³)</td>
</tr>
<tr>
<td></td>
<td>188 in³ (3081 cm³)</td>
</tr>
<tr>
<td>Number of cylinders</td>
<td>4</td>
</tr>
<tr>
<td>Cooling</td>
<td>Water</td>
</tr>
<tr>
<td>Capacity</td>
<td>4 U.S. gals (15 litres)</td>
</tr>
<tr>
<td>Fuel tank capacity</td>
<td>14.5 U.S. gals (55 litres)</td>
</tr>
<tr>
<td>Type of fuel</td>
<td>Gasoline, leaded No. 2 diesel</td>
</tr>
<tr>
<td>Engine crankcase oil</td>
<td>7 U.S. quarts (6.65 litres)</td>
</tr>
<tr>
<td>capacity (including filter)</td>
<td>7 U.S. quarts (6.65 litres)</td>
</tr>
<tr>
<td>Air cleaner</td>
<td>Dry type, replaceable element</td>
</tr>
<tr>
<td>Electrical system</td>
<td>Battery 12V 55 amp hour</td>
</tr>
<tr>
<td></td>
<td>Alternator 12V 42 amp</td>
</tr>
<tr>
<td>Ignition</td>
<td>Coil and points</td>
</tr>
</tbody>
</table>

Sae net flywheel horsepower or torque of engine as applied to this vehicle when equipped with operating accessories including oil and water pumps, alternator, air cleaner, fan and muffler. Corrected to 500’ (152.4 m) altitude with .38” (10 mm) Hg. Vapor pressure 29.39” (746 mm) Hg. Observed barometer and 85°F (29°C) per SAE J-616 Specifications.

**POWER TRAIN**

Type Hydrostatic with single stage chain drive to wheels
Transmission Tandem pump assembly consisting of two variable displacement pumps, gear type charge pump, gear type system pump and two fixed displacement gerotor motors
Brakes (standard) Mechanical linkage with positive parking brake pin lock

**HYDRAULIC SYSTEM**

Main relief setting 2250 psi @ 2250 rpm (15 513 kPa @ 2250 r/min)
Lift cylinders (two) 2.125" dia x 26.75" stroke, 1.25" rod (54 mm dia x 679 mm stroke, 32 mm rod)
Bucket cylinders (two) 2.5" dia x 15.85" stroke, 1.25" rod (64 mm dia x 403 mm stroke, 32 mm rod)
Pump capacity 11 gpm @ 2250 rpm @ 2250 psi (41.6 l/min @ 2250 r/min @ 15 513 kPa)
Capacities total system 8 U.S. gals (30 litres)

**LOADER OPERATIONAL DATA**

Tipping load - SAE rated gasoline engine 2348 lbs (1066 kg)
diesel engine 2410 lbs (1093 kg)
Payload capacity 1200 lbs (544 kg)
Raising time with rated load in the bucket 4.6 sec
Lowering time, bucket empty 2.6 sec
Rollback time from full dump to full rollback 2.5 sec
Breakout force lift cylinders, gasoline engine 2250 lbs (1021 kg)
lift cylinders, diesel engine 2330 lbs (1057 kg)
lift cylinders 3100 lbs (1406 kg)
Travel speed forward and reverse 6.1 mph (9.8 km/h)

**WEIGHTS**

Shipping* Gasoline engine 3814 lbs (1736 kg)
diesel engine 4000 lbs (1822 kg)
*Includes 4 gals (15 litres) fuel, no operator, no bucket, with 7.00 x 15 tires, ROPS and standard equipment.

Operating** Gasoline engine 4323 lbs (1961 kg)
diesel engine 4526 lbs (2053 kg)
**Includes full fuel, 175 lb (79 kg) operator, 54" (1372 mm) dirt bucket, 7.00 x 15 tires, ROPS and standard equipment.

**STANDARD EQUIPMENT (on basic unit)**


### OPERATING DIMENSIONS

![Diagram of equipment](image)

**NOTE:** Specifications taken with full fuel, 175 lbs (79 kg) operator, 54" (1372 mm) dirt bucket, 7.00 x 15, 6-PR tires, ROPS and standard equipment, unless otherwise specified.

<table>
<thead>
<tr>
<th>Bucket Type</th>
<th>Width (in)</th>
<th>Width (mm)</th>
<th>Struck Capacities</th>
<th>SAE Heaped Capacities</th>
<th>Weight (lbs)</th>
<th>Dump Height (in)</th>
<th>Dump Height (mm)</th>
<th>Dump Reach (in)</th>
<th>Dump Reach (mm)</th>
<th>Dump Angle (deg)</th>
<th>Overall Length (in)</th>
<th>Overall Length (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dirt</td>
<td>54</td>
<td>1370</td>
<td>7.7</td>
<td>0.22</td>
<td>10.0</td>
<td>264</td>
<td>120</td>
<td>84</td>
<td>2134</td>
<td>19.2</td>
<td>488</td>
<td>40°</td>
</tr>
<tr>
<td>Dirt</td>
<td>60</td>
<td>1520</td>
<td>8.6</td>
<td>0.24</td>
<td>11.2</td>
<td>281</td>
<td>127</td>
<td>84</td>
<td>2134</td>
<td>19.2</td>
<td>488</td>
<td>40°</td>
</tr>
<tr>
<td>Utility</td>
<td>54</td>
<td>1370</td>
<td>12.3</td>
<td>0.35</td>
<td>15.1</td>
<td>335</td>
<td>152</td>
<td>82</td>
<td>2083</td>
<td>24.4</td>
<td>620</td>
<td>35°</td>
</tr>
<tr>
<td>Utility</td>
<td>60</td>
<td>1520</td>
<td>13.7</td>
<td>0.39</td>
<td>16.9</td>
<td>356</td>
<td>161</td>
<td>82</td>
<td>2083</td>
<td>24.4</td>
<td>620</td>
<td>35°</td>
</tr>
<tr>
<td>Light material</td>
<td>66</td>
<td>1680</td>
<td>15.1</td>
<td>0.43</td>
<td>18.8</td>
<td>377</td>
<td>171</td>
<td>82</td>
<td>2083</td>
<td>24.4</td>
<td>620</td>
<td>35°</td>
</tr>
</tbody>
</table>

**MANURE FORK:**

- Number of tines: 11
- Width between each tine: 4.2" (107 mm)
- Overall width of tines: 54.3" (1379 mm)
- Overall width of attachment: 54.8" (1392 mm)
- Length of tines: 27" (686 mm)
- Hydraulic grapple available for manure fork.

**PALLET FORK:**

- Maximum width of forks: 40" (1016 mm)
- Minimum width of forks: 12" (305 mm)
- Length of fork: 36" (914 mm)
- Overall width of attachment: 48.5" (1232 mm)
- Brick guard available for pallet fork.
OPTIONAL EQUIPMENT (on basic machine)
7.00 x 15 Steel Cap 6-PR tires. 10.00 x 16.5 Sure-Grip (flotation) 6-PR tires. 10.00 x 16.5 Duplex (flotation) 6-PR tires. Lights. Auxiliary hydraulics. Horn. Spark arresting muffler. Rear ROPS screen. Deluxe seat. Cold start aid (diesel only).

OPTIONAL EQUIPMENT (attachments)
54" (1372 mm) and 60" (1524 mm) dirt buckets. 54" (1372 mm) and 60" (1524 mm) utility buckets. 66" (1676 mm) light material bucket. Manure fork. Hydraulic grapple. Pallet fork. Brick guard. 8.5' (2591 mm) backhoe.

NOTE: All specifications are stated in accordance with ICED Definitions or SAE Standards or Recommended Practices, where applicable.

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