FEATURES
37 brake horsepower
4-cylinder Wisconsin gasoline engine
Turns within its own length
4-wheel drive, 2 multi-disk clutches on each side
Instant reversing
Simple controls
Choice of 6 buckets; 2 pallet forks; or pulpwood grapple

LOADERS SPECIFICATIONS

Buckets: Struck Capacity Width

<table>
<thead>
<tr>
<th>Description</th>
<th>cu. ft</th>
<th>m³</th>
<th>in.</th>
<th>meters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dirt w/Push-off</td>
<td>8.6</td>
<td>0.244</td>
<td>65</td>
<td>1.65</td>
</tr>
<tr>
<td>Light Materials</td>
<td>20.2</td>
<td>0.572</td>
<td>67</td>
<td>1.70</td>
</tr>
<tr>
<td>Fertilizer</td>
<td>15.3</td>
<td>0.433</td>
<td>65</td>
<td>1.65</td>
</tr>
<tr>
<td>Dirt and Foundry</td>
<td>10.5</td>
<td>0.297</td>
<td>65</td>
<td>1.65</td>
</tr>
<tr>
<td>Utility</td>
<td>12.5</td>
<td>0.354</td>
<td>65</td>
<td>1.65</td>
</tr>
<tr>
<td>Produce</td>
<td>15.0</td>
<td>0.425</td>
<td>72</td>
<td>1.83</td>
</tr>
</tbody>
</table>

Pallet Forks:
36 in. (914 mm) tines .............. 43, 1.09
46 in. (1,17 m) tines .............. 43, 1.09

Operating Information:
Lift capacity, full height: (approx.)
W/bucket or fork .................. 1,700 lb. (771 kg)
W/pulpwood grapple ............... 1,000 lb. (454 kg)
Pulpwood grapple capacity ........ 1/5 cord
Maximum clamp dia. .............. 4 ft. 9.5 in. (1.46 m)
Minimum clamp dia. ................ 11.75 in. (298 mm)
Grapple arms above ground, boom raised .................. 9 ft. 2 in. (2.79 m)
Grapple arms below ground, boom lowered .................. 2 in. (51 mm)
Grapple loading height ............ 11 ft. 3 in. (3.43 m)

Hydraulic System:
System pressure .................. 1,750 psi (123.0 kg/cm²)
Loader control .................. Dual-pedal, double hydraulic system
Pump ................................ Gear-type, 18 gpm (68 lpm) @ 2,400 engine rpm
Oil lines .................. Welded JIC steel tubing; single-wire-braid hose
Filter .................. 33-micron paper cartridge in suction line

Cylinders:

<table>
<thead>
<tr>
<th>Description</th>
<th>Bore</th>
<th>Stroke</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom</td>
<td>3-in. (76 mm)</td>
<td>27.5-in. (699 mm)</td>
</tr>
<tr>
<td>Bucket</td>
<td>3-in. (76 mm)</td>
<td>16.5-in. (419 mm)</td>
</tr>
<tr>
<td>Grapple</td>
<td>2.5-in. (64 mm)</td>
<td>8-in. (203 mm)</td>
</tr>
<tr>
<td>Piston rods</td>
<td>Ground, heat-treated, chrome-plated, polished</td>
<td></td>
</tr>
<tr>
<td>Boom cylinders</td>
<td>1.5-in. (38 mm) dia.</td>
<td></td>
</tr>
<tr>
<td>Bucket cylinders</td>
<td>1.25-in. (32 mm) dia.</td>
<td></td>
</tr>
<tr>
<td>Grapple cylinders</td>
<td>1.125-in. (29 mm) dia.</td>
<td></td>
</tr>
</tbody>
</table>
SPECIFICATIONS—JD24 LOADER

(Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with I EMC and SAE Standards. Except where otherwise noted, these specifications are for a unit equipped with 15.3 cu. ft. (0.433 m³) fertilizer bucket and standard equipment.)

Horsepower (at 2,400 engine rpm):
Brake (SAE) ............................................. 37
Brake horsepower is for an engine equipped with fan, air cleaner and muffler; and is maximum under SAE standard conditions at sea level and 60°F temperature.

Engine: Wisconsin VG4D, 4-cylinder, 4-stroke cycle, gasoline
Bore and stroke ................................. 3.5 x 4 in. (89 x 102 mm)
Piston displacement ............................... 154 cu. in. (2,524 cm³)
Compression ratio ................................. 5.05:1
Governed speed range ......................... 1,400-2,400 rpm
Maximum torque @ 1,600 rpm ............... 93.8 lb-ft (13.89 kg-m)
NACC or AMA (U.S. Tax) horsepower ........ 19.6

Lubrication: Pressure with full flow filter
Cooling fan: Suction-type
Air cleaner: Dry-type
Electrical and starting system .......... 12-volt with alternator

Transmission:
Multi-disk clutches, 2 on each side, roller cam actuated with 11 wear surfaces and heavy-duty precision separator springs. Clutches lubricated by return hydraulic oil in enclosed housings.

Travel Speeds:
Forward or reverse .............................. 5-7 mph 9-11.3 km/h

Final Drives:
Axle is specially-treated, forged 2.56 in. (65 mm) dia. steel. Chain and sprocket primary, secondary and final drives.

Steering: Power
Tires ................................................. 10.00-16.5, 6-ply-rating, R3

Capacities:
Fuel tank .......................................... 25 gal. 94.6 liters
Engine lubrication ............................... 5 qt. 4.7 liters
Loader hydraulic system ....................... 20 gal. 75.7 liters

Operating Weight (approx.):
W/o bucket, fork or grapple .................... 4,750 lb. (2155 kg)

Shipping Weight (approx.):
Buckets:
Dirt w/Push-off .................................. 515 lb. (234 kg)
Light Materials .................................. 455 lb. (206 kg)
Fertilizer .......................................... 400 lb. (181 kg)
Dirt and Foundry ................................ 350 lb. (159 kg)
Utility ............................................. 380 lb. (172 kg)
Produce ........................................... 405 lb. (184 kg)
Pallet fork(s) (w/mounting frame):
Two 36 in. (914 mm) tines ...................... 265 lb. (120 kg)
Two 46 in. (1,17 m) tines ....................... 285 lb. (129 kg)
Pulpwood grapple ................................ 820 lb. (372 kg)

Standard Equipment:
Counterweights Seat belt w/retractors Deluxe seat

Special Equipment:
Lights (front, rear, and flashing) Boom lock assembly Engine mud guard kit Belly pan kit Roll-over protective structure w/canopy, w/ or w/o wire mesh screens Cab (includes roll-over protective structure) Windshield wiper for cab Additional counterweight Engine screen guard
### Bucket Positions:

<table>
<thead>
<tr>
<th></th>
<th>Produce</th>
<th>Dirt w/ Push-off</th>
<th>Light Materials</th>
<th>Utility</th>
<th>Fertilizer</th>
<th>Dirt and Foundry</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>10 ft. 4.5 in. (3.16 m)</td>
<td>9 ft. 9 in. (2.97 m)</td>
<td>10 ft. 6.25 in. (3.11 m)</td>
<td>10 ft. 2.5 in. (3.11 m)</td>
<td>10 ft. 2.5 in. (3.11 m)</td>
<td>9 ft. 9.75 in. (2.98 m)</td>
</tr>
<tr>
<td>B</td>
<td>2 ft. 7.5 in. (800 mm)</td>
<td>2 ft. 6 in. (762 mm)</td>
<td>2 ft. 2 in. (660 mm)</td>
<td>1 ft. 10.75 in. (578 mm)</td>
<td>1 ft. 10.75 in. (578 mm)</td>
<td>1 ft. 7.75 in. (502 mm)</td>
</tr>
<tr>
<td>C</td>
<td>7 ft. 4.5 in. (2.25 m)</td>
<td>9 ft. (2.74 m)</td>
<td>7 ft. 6 in. (2.29 m)</td>
<td>7 ft. 7.625 in. (2.33 m)</td>
<td>7 ft. 7.625 in. (2.33 m)</td>
<td>7 ft. 10.75 in. (2.11 m)</td>
</tr>
<tr>
<td>D</td>
<td>3 ft. 11.5 in. (1.21 m)</td>
<td>3 ft. 4 in. (1.02 m)</td>
<td>4 ft. 1.25 in. (1.25 m)</td>
<td>3 ft. 9.5 in. (1.16 m)</td>
<td>3 ft. 9.5 in. (1.16 m)</td>
<td>3 ft. 4.75 in. (1.14 m)</td>
</tr>
<tr>
<td>E</td>
<td>38 deg.</td>
<td>38 deg.</td>
<td>35 deg.</td>
<td>35 deg.</td>
<td>35 deg.</td>
<td>35 deg.</td>
</tr>
<tr>
<td>F</td>
<td>35 deg.</td>
<td>6 deg.</td>
<td>38 deg.</td>
<td>38 deg.</td>
<td>38 deg.</td>
<td>38 deg.</td>
</tr>
<tr>
<td>G</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td>——</td>
<td>——</td>
</tr>
<tr>
<td>H</td>
<td>3 ft. 8 in. (1.12 m)</td>
<td>3 ft. 2.25 in. (972 mm)</td>
<td>3 ft. 10.25 in. (1.17 m)</td>
<td>3 ft. 6.75 in. (1.09 m)</td>
<td>3 ft. 6.75 in. (1.09 m)</td>
<td>3 ft. 3.5 in. (1.09 m)</td>
</tr>
</tbody>
</table>

A. Over-all length with bucket  
B. Reach at max. height, bucket at full dump  
C. Clearance, bucket at full dump  
D. Reach, bucket on ground  
E. Bucket rollback  
F. Maximum dumping angle  
G. Digging depth below ground level  
H. Reach, bucket rolled back