Engine

Type: John Deere PowerTech™ 6081H; meets EPA and CARB emission non-road regulations
Cylinders: 6
Valves Per Cylinder: 2
Displacement: 496 cu. in. (8.1 L)
Net Rated Power: 185 hp (138 kW) @ 2,200 rpm
Net Peak Power: 225 hp (168 kW) @ 1,600 rpm
Net Peak Torque: 765 lb.-ft. (1040 Nm) @ 1,300 rpm
Net Torque Rise: 74%
Net Power Bulge: 22%
Fuel System: high-pressure common rail
Lube System: full-flow spin-on filter and integral cooler
Aspiration: turbocharged, charge air cooled
Air Cleaner: dual element dry type, restriction indicator in cab monitor for service
Fan Drive: hydraulically driven, proportionally controlled, fan aft of coolers
Electrical System: 24 volt with 80-amp alternator
Batteries: (two 12 volt) 1,400 CCA; reserve capacity: 440 min. each

Transmission

Type: countershaft-type power shift
Torque Converter: single stage, single phase
Operator Interface: steering-column-mounted, twist-grip shift lever; quick-shift button on hydraulic lever
Shift Modes: auto/manual, auto to 1st or 2nd, kick down or kick up/down, three clutch cutoff settings adjustable on switch pad

Travel Speeds*

<table>
<thead>
<tr>
<th>Gear</th>
<th>Forward</th>
<th>Reverse</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4.6 mph (7.4 km/h)</td>
<td>4.9 mph (7.9 km/h)</td>
</tr>
<tr>
<td>2</td>
<td>7.6 mph (12.2 km/h)</td>
<td>8.0 mph (12.8 km/h)</td>
</tr>
<tr>
<td>3</td>
<td>14.7 mph (23.6 km/h)</td>
<td>15.5 mph (24.9 km/h)</td>
</tr>
</tbody>
</table>

*Equipped with 23.5 X 25 solid rubber tires.

Axles/Brakes

Final Drives: heavy-duty inboard planetary
Differentials: hydraulic locking front, conventional rear — standard; dual locking front and rear — optional
Rear Axle Oscillation, Stop to Stop*: 18 degrees
Brakes (conform to SAE J1473, ISO3450):
Service Brakes: hydraulically actuated, inboard, carrier mounted, pressure oil cooled, self adjusting, multi-disc
Parking Brake: automatic spring applied, hydraulically released, oil cooled, multi-disc

*Equipped with 23.5 X 25 radial tires.

Hydraulic System/Steering

Pump (loader and steering): variable-displacement, axial-piston pump; closed-center, pressure-compensating system
Maximum Flow @ 2,200 rpm: 68 gpm (257 L/m) @ 1,000 psi (6895 kPa)
Pressure: loader and steering relief 3,600 psi (24 850 kPa)
Loader Controls: two-function valve; single- or dual-lever controls; control lever lockout feature; optional third- and fourth-function valve with auxiliary lever
Hydraulic Cycle Times

<table>
<thead>
<tr>
<th>Cycle</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raise</td>
<td>6.2 sec.</td>
</tr>
<tr>
<td>Dump</td>
<td>1.4 sec.</td>
</tr>
<tr>
<td>Lower</td>
<td>3.0 sec. (float down)</td>
</tr>
<tr>
<td>Total</td>
<td>10.6 sec.</td>
</tr>
</tbody>
</table>

Steering (conforms to SAE J1511)

Type: power, fully hydraulic
Pressure: 3,600 psi (24 850 kPa) relief
Articulation Angle: 80-degree arc (40 degrees each direction)
Turning Radius (measured to centerline of outside tire): 18 ft. 0 in. (5500 mm)
### Dimensions with Pin-On

<table>
<thead>
<tr>
<th>Type Waste Buckets</th>
<th><strong>644J WH STANDARD BOOM</strong></th>
<th><strong>644J WH HIGH LIFT</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>644J WH STANDARD BOOM</strong></td>
<td>6.0-cu.-yd. (4.6 m³)</td>
<td>7.0-cu.-yd. (5.4 m³)</td>
</tr>
<tr>
<td><strong>644J WH HIGH LIFT</strong></td>
<td>7.0-cu.-yd. (5.4 m³)</td>
<td>7.0-cu.-yd. (5.4 m³)</td>
</tr>
</tbody>
</table>

#### Type Waste Buckets

- **Capacity, Heaped SAE**: 5.0-cu.-yd. (3.8 m³) standard lip
- **Capacity, Struck SAE**: 4.0-cu.-yd. (3.1 m³) standard lip

| **A** Height to Top of Cab | 11 ft. 7 in. (3522 mm) | 11 ft. 7 in. (3522 mm) |
| **B** Height to Top of Exhaust | 11 ft. 4 in. (3457 mm) | 11 ft. 4 in. (3457 mm) |
| **C** Ground Clearance | 20.3 in. (516 mm) | 20.3 in. (516 mm) |
| **D** Length from Centerline to Front Axle | 63 in. (1600 mm) | 63 in. (1600 mm) |
| **E** Wheelbase | 126 in. (3200 mm) | 126 in. (3200 mm) |
| **F** Bucket Clearance, Full Height | 9 ft. 8.3 in. (2954 mm) | 9 ft. 8.9 in. (2954 mm) |
| **G** Height to Hinge Pin, Fully Raised | 13 ft. 10 in. (4209 mm) | 13 ft. 10 in. (4209 mm) |
| **H** Tipping Load, Straight | 41,430 lb. (18 789 kg) | 41,430 lb. (18 789 kg) |
| **I** Tipping Load, 45-Degree Dump, SAE | 35,988 lb. (16 321 kg) | 35,988 lb. (16 321 kg) |
| **J** Maximum Rollback at Ground Level | 37 degrees | 37 degrees |
| **K** Maximum Rollback at Full Height | 57 degrees | 57 degrees |
| **L** Maximum Dump Angle, Full Height | 45 degrees | 45 degrees |
| **M** Breakout Force, SAE J732C | 34,471 lb. (15 633 kg) | 34,471 lb. (15 633 kg) |
| **N** Tipping Load, 45-Degree Dump, SAE | 35,988 lb. (16 321 kg) | 35,988 lb. (16 321 kg) |

#### Waste Handler Complete Protection Package

- 23.5 X 25 Solid Rubber Tires
- 175-lb. (79 kg) Operator

### Tire Specifications

- **Tires**: 644J WH STANDARD BOOM / HIGH LIFT

<table>
<thead>
<tr>
<th><strong>644J WH STANDARD BOOM</strong></th>
<th><strong>644J WH HIGH LIFT</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Width Over Tires</strong></td>
<td>113.1 in. (2874 mm)</td>
</tr>
<tr>
<td><strong>Change In Vertical Height</strong></td>
<td>0 in. (0 mm)</td>
</tr>
</tbody>
</table>

#### Choice of Tread Width

- **Width Over Tires**: 85.4 in. (2170 mm) | 85.4 in. (2170 mm) |
- **Change In Vertical Height**: 0 in. (0 mm) | 0 in. (0 mm) |

#### Dimensions with Pin-On

- **Cab and Canopy**
- **D** Cab, 11 ft. 7 in. (3522 mm) | 11 ft. 7 in. (3522 mm) |
- **E** Cab, 11 ft. 2 in. (3353 mm) | 11 ft. 2 in. (3353 mm) |

#### Breakout Force

- **SAE J732C**: 34,471 lb. (15 633 kg) | 34,471 lb. (15 633 kg) |

#### Maximum Rollback at Full Height

- 57 degrees | 57 degrees |
- 47 degrees | 47 degrees |

#### Maximum Lift Capacity

<table>
<thead>
<tr>
<th><strong>644J WH STANDARD BOOM</strong></th>
<th><strong>644J WH HIGH LIFT</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>6.0-cu.-yd. (4.6 m³)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>7.0-cu.-yd. (5.4 m³)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>8.0-cu.-yd. (6.4 m³)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>9.0-cu.-yd. (7.4 m³)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>10.0-cu.-yd. (8.7 m³)</strong></td>
<td></td>
</tr>
</tbody>
</table>

#### Hoover Information

- **Maximum Lift at Ground Level**: 35,496 lb. (16 098 kg) | 35,496 lb. (16 098 kg) |
- **Maximum Lift at Full Height**: 23,633 lb. (10 718 kg) | 23,633 lb. (10 718 kg) |

#### Loading Information

- **Operational information is based on a machine with all standard equipment, waste handler complete protection package, 23.5 X 25 solid rubber tires; ROPS cab; differential lock front axle with standard rear axle; two-spool valve with two-lever control; heater and defroster; 175-lb. (79 kg) operator; and full fuel tank. This information is affected by tire size, ballast, and different attachments.**
# Specifications

## Engine

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>John Deere PowerTech™ 6081H; meets EPA and CARB emission non-road regulations</td>
</tr>
<tr>
<td>Cylinders</td>
<td>6</td>
</tr>
<tr>
<td>Valves Per Cylinder</td>
<td>2</td>
</tr>
<tr>
<td>Displacement</td>
<td>496 cu. in. (8.1 L)</td>
</tr>
<tr>
<td>Net Peak Power</td>
<td>250 hp (186 kW) @ 1,800 rpm</td>
</tr>
<tr>
<td>Net Rated Power</td>
<td>215 hp (160 kW) @ 2,200 rpm</td>
</tr>
<tr>
<td>Net Peak Torque</td>
<td>765 lb.-ft. (1040 Nm) @ 1,300 rpm</td>
</tr>
<tr>
<td>Net Torque Rise</td>
<td>49%</td>
</tr>
<tr>
<td>Net Power Bulge</td>
<td>16%</td>
</tr>
<tr>
<td>Fuel System</td>
<td>high-pressure common rail</td>
</tr>
<tr>
<td>Lube System</td>
<td>full-flow spin-on filter and integral cooler</td>
</tr>
<tr>
<td>Air Cleaner</td>
<td>dual element dry type; restriction indicator in cab monitor for service</td>
</tr>
<tr>
<td>Fan Drive</td>
<td>hydraulically driven, proportionally controlled, fan aft of coolers</td>
</tr>
<tr>
<td>Electrical System</td>
<td>24 volt with 80-amp alternator</td>
</tr>
<tr>
<td>Batteries (two 12 volt)</td>
<td>1,400 CCA; reserve capacity: 440 min. each</td>
</tr>
</tbody>
</table>

## Transmission

| Type                          | countershaft-type power shift             |
| Torque Converter              | single stage, single phase               |
| Operator Interface            | steering column-mounted twist-grip shift lever, quick-shift button on hydraulic lever |
| Shift Modes                   | auto/manual, auto to 1st or 2nd, kick down or kick up/down, three clutch cutoff settings |
| Travel Speeds*                |                                           |
| Gear 1                        | 4.6 mph (7.4 km/h) / 4.9 mph (7.9 km/h)   |
| Gear 2                        | 7.6 mph (12.2 km/h) / 8.0 mph (12.8 km/h)  |
| Gear 3                        | 14.7 mph (23.6 km/h) / 15.5 mph (24.9 km/h) |

*Equipped with 23.5 X 25 solid rubber tires.

## Axles/Brakes

| Final Drives                  | heavy-duty inboard planetary             |
| Differentials                 | hydraulic locking front, conventional rear — standard; dual locking front and rear — optional |
| Rear Axle Oscillation, Stop to Stop* | 18 degrees                           |
| Brakes (conform to SAE J1473, ISO3450) |                                           |
| Service Brakes                | hydraulically actuated, inboard, carrier mounted, pressure oil cooled, self adjusting, multi disc |
| Parking Brake                 | automatically spring applied, hydraulically released, oil cooled, multi disc |

*Equipped with 23.5 X 25 solid rubber tires.

## Hydraulic System/Steering

| Pump (loader and steering)    | variable-displacement, axial piston pump; closed-center, pressure-compensating system |
| Maximum Flow @ 2,200 rpm      | 74 gpm (280 L/min.) @ 1,000 psi (6895 kPa) |
| Pressure                      | loader and steering relief 3,600 psi (24 850 kPa) |
| Loader Controls               | two-function valve; single- and dual-lever controls; control lever lockout feature; optional third- and fourth-function valve with auxiliary lever |
| Steering (conforms to SAE J1511) |                                           |
| Type                          | power, fully hydraulic                  |
| Pressure                      | 3,600 psi (24 850 kPa) relief            |
| Articulation Angle            | 80-degree arc (40 degrees each direction) |
| Hydraulic Cycle Times         |                                           |
| Raise                         | 6.0 sec.                                 |
| Dump                          | 1.2 sec.                                 |
| Lower                         | 3.0 sec. (float down)                    |
| Total                         | 10.2 sec.                                |
| Turning Radius (measured to centerline of outside tire) | 18 ft. 0 in. (5500 mm) |
Maximum Lift Capacity

<table>
<thead>
<tr>
<th>SAE Heaped Capacity</th>
<th>724J WH STANDARD BOOM</th>
<th>724J WH HIGH LIFT</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0-cu.-yd. (3.8 m³) standard lip</td>
<td>6.0-cu.-yd. (4.6 m³) standard lip</td>
<td>7.0-cu.-yd. (5.4 m³) standard lip</td>
</tr>
<tr>
<td>5.0-cu.-yd. (3.8 m³) standard lip</td>
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</tr>
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<td>6.0-cu.-yd. (4.6 m³) standard lip</td>
<td>7.0-cu.-yd. (5.4 m³) standard lip</td>
</tr>
</tbody>
</table>

Maximum Lift at Ground Level

<table>
<thead>
<tr>
<th>35,496 lb. (16,098 kg)</th>
<th>34,094 lb. (15,462 kg)</th>
<th>29,344 lb. (13,308 kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30,802 lb. (13,969 kg)</td>
<td>29,677 lb. (13,459 kg)</td>
<td>28,131 lb. (12,758 kg)</td>
</tr>
</tbody>
</table>

Maximum Lift at Maximum Height

<table>
<thead>
<tr>
<th>23,633 lb. (10,718 kg)</th>
<th>22,989 lb. (10,426 kg)</th>
<th>22,548 lb. (10,226 kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>17,779 lb. (7809 kg)</td>
<td>17,219 lb. (7677 kg)</td>
<td>16,906 lb. (7677 kg)</td>
</tr>
</tbody>
</table>

Dimensions with Pin-On

<table>
<thead>
<tr>
<th>Bucket Lip Capacity (equipped with bolt-on cutting edges)</th>
<th>724J WH STANDARD BOOM</th>
<th>724J WH HIGH LIFT</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0-cu.-yd. (3.8 m³) standard lip</td>
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<td>5.0-cu.-yd. (3.8 m³) standard lip</td>
</tr>
</tbody>
</table>

Tires

<table>
<thead>
<tr>
<th>Choice of Tires</th>
<th>724J WH STANDARD BOOM / HIGH LIFT</th>
</tr>
</thead>
<tbody>
<tr>
<td>23.5 X 25 Solid Rubber Tires</td>
<td>85.4 in. (2170 mm)</td>
</tr>
</tbody>
</table>

Parking Brake...20 oz. (600 mL)

Fuel Tank (with ground-level fueling)...100 gal. (379 L)

Engine Lubrication, Including Full-Flow Spin-Cooling System...32 qt. (31 L)

Breakout Force, SAE J732C...34,471 lb. (15,633 kg)

Reach, 45-Degree Dump, 7-ft. (2.13 m)....38,160 lb. (17,306 lb)

Clearance....60.2 in. (1529 mm)

Loader Clearance Circle, Bucket In Carry Position....42.2 ft. 3 in.

Operating Weight....49.976 lb. (22 665 kg)

Both tire types require 9-degree axle stops.

Capacity

<table>
<thead>
<tr>
<th>Fuel Tank (with ground-level fueling)</th>
<th>100 gal. (379 L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Lubrication, Including Full-Flow Spin-Cooling System</td>
<td>32 qt. (31 L)</td>
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</tbody>
</table>

Dimensions with Pin-On

<table>
<thead>
<tr>
<th>Type Waste Buckets</th>
<th>724J WH STANDARD BOOM</th>
<th>724J WH HIGH LIFT</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0-cu.-yd. (3.8 m³) standard lip</td>
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<td>5.0-cu.-yd. (3.8 m³) standard lip</td>
</tr>
</tbody>
</table>

Breakout Force, SAE J732C...34,471 lb. (15,633 kg)

Tipping Load, Straight...44,021 lb. (19,964 kg)

Reach...38,160 lb. (17,306 lb)

Clearance...60.2 in. (1529 mm)

Loader Clearance Circle, Bucket In Carry Position...42.2 ft. 3 in.

Operating Weight...49.976 lb. (22 665 kg)
Specifications

Engine

- Type: John Deere PowerTech™ 6125H; meets EPA and CARB emission non-road regulations
- Cylinders: 6
- Valves Per Cylinder: 4
- Displacement: 766 cu. in. (12.5 L)
- Net Peak Power: 288 SAE gross hp (215 kW) @ 1,800 rpm
- Net Rated Power: 265 SAE net hp (198 kW) @ 2,000 rpm
- Net Peak Torque: 970 lb.-ft. (1320 Nm) @ 1,100 rpm
- Net Torque Rise: 40%
- Net Power Bulge: 8%
- Fuel System: mechanically actuated electronic unit injectors
- Lube System: full-flow spin-on filter and integral cooler
- Aspiration: turbocharged, charge air cooled
- Air Cleaner: dual element dry type; restriction indicator in cab monitor for service
- Fan Drive: belt driven, fan forward of coolers
- Electrical System: 24 volt with 80-amp alternator
- Batteries (two 12 volt): 1,400 CCA; reserve capacity: 440 min. each

Transmission

- Type: countershaft-type powershift
- Torque Converter: single-stage, dual-phase with freewheeling stator
- Shift Control: electronically modulated, adaptive, load and speed dependent
- Operator Interface: steering column-mounted twist-grip shift lever, quick-shift button on hydraulic lever
- Shift Modes: auto/manual, auto to 1st or 2nd, kick down or kick up/down, three clutch cutoff settings
- Travel Speeds:
  - Gear 1: 4.6 mph (7.4 km/h)
  - Gear 2: 8.6 mph (13.9 km/h)
  - Gear 3: 13.1 mph (21.2 km/h)
- Travel Speeds*:
  - Forward: 4.6 mph (7.4 km/h)
  - Reverse: 8.6 mph (13.9 km/h)
  - Gear 3: 19.3 mph (31.0 km/h)
  - *Equipped with 31.5 X 25 solid rubber tires.

Axles/Brakes

- Final Drives: heavy-duty inboard planetary
- Differentials: hydraulic locking front, conventional rear – standard; dual locking front and rear – optional
- Rear Axle Oscillation, Stop to Stop*: 16 degrees
- Brakes (conform to SAE J1473, ISO3450):
  - Service Brakes: hydraulically actuated, inboard, sun gear mounted, oil cooled, self adjusting, single disc
  - Parking Brake: automatically spring applied, hydraulically released, oil cooled, multi disc
  - *Equipped with 31.5 X 25 solid rubber tires.

Hydraulic System/Steering

- Pump (loader and steering): two variable-displacement, load-sensing axial piston pumps; closed-center system
- Maximum Flow @ 2,250 rpm: 104 gpm (383 L/min.) @ 1,000 psi (6895 kPa)
- Pressure: loader and steering relief 3,200 psi (22 000 kPa)
- Loader Controls: two-function valve; single- or dual-lever fingertip controls; control lever lockout feature; optional third-function valve with auxiliary lever
- Hydraulic Cycle Times:
  - Raise: 6.5 sec.
  - Dump: 1.5 sec.
  - Lower: 3.0 sec. (float down)
  - Total: 11.0 sec.
- Steering (conforms to SAE J1511):
  - Type: power, fully hydraulic
  - Pressure: 3,200 psi (22 000 kPa) relief
  - Articulation Angle: 80-degree arc (40 degrees each direction)
- Turning Radius (measured to centerline of outside tire): 20 ft. 2 in. (6140 mm)
### Maximum Lift Capacity

**SAE Heaped Capacity**
- 744J WH STANDARD BOOM: 6.0-cu.-yd. (4.7 m³) standard lip
- 744J WH STANDARD BOOM: 7.0-cu.-yd. (5.3 m³) standard lip
- 744J WH STANDARD BOOM: 8.0-cu.-yd. (6.1 m³) standard lip
- 744J WH HIGH LIFT: 6.0-cu.-yd. (4.7 m³) standard lip
- 744J WH HIGH LIFT: 7.0-cu.-yd. (5.3 m³) standard lip
- 744J WH HIGH LIFT: 8.0-cu.-yd. (6.1 m³) standard lip

**Maximum Lift at Ground Level**
- 744J WH STANDARD BOOM: 45,478 lb. (20,625 kg)
- 744J WH STANDARD BOOM: 43,551 lb. (19,751 kg)
- 744J WH STANDARD BOOM: 38,416 lb. (17,422 kg)
- 744J WH HIGH LIFT: 36,993 lb. (16,777 kg)
- 744J WH HIGH LIFT: 36,105 lb. (16,374 kg)
- 744J WH HIGH LIFT: 35,198 lb. (15,963 kg)

**Maximum Lift at Maximum Height**
- 744J WH STANDARD BOOM: 23,358 lb. (10,953 kg)
- 744J WH STANDARD BOOM: 22,958 lb. (10,342 kg)
- 744J WH STANDARD BOOM: 22,753 lb. (10,319 kg)
- 744J WH HIGH LIFT: 20,800 lb. (9,433 kg)
- 744J WH HIGH LIFT: 20,392 lb. (9,248 kg)
- 744J WH HIGH LIFT: 20,174 lb. (9,149 kg)

### Tires

**744J WH STANDARD BOOM / HIGH LIFT**

<table>
<thead>
<tr>
<th>Choice of Tires</th>
<th>Width Over Tires</th>
<th>Change in Vertical Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>31.5-25 Solid Rubber Tires</td>
<td>120.0 in. (3020 mm)</td>
<td>0 in. (0 mm)</td>
</tr>
<tr>
<td>26.5-25 Solid Rubber Tires</td>
<td>160.0 in. (4038 mm)</td>
<td>– 0.6 in. (– 15 mm)</td>
</tr>
<tr>
<td>26.9R25 X-MINE L5 Michelin Radial Tires</td>
<td>160.0 in. (4038 mm)</td>
<td>– 1.0 in. (– 25 mm)</td>
</tr>
</tbody>
</table>

Both tire types require 8-degree axle stops.

### Capacities (U.S.)

- **Fuel Tank (with ground-level fueling):** 122 gal. (462 L)
- **Cooling System:** 40 qt. (38 L)
- **Engine Lubrication, Including Full-Flow Spin-On Filter:** 30 qt. (28 L)
- **Differential (each axle):** 52 qt. (49 L)
- **Rear:** 52 qt. (49 L)
- **Loader Hydraulic Reservoir and Filters:** 38 gal. (144 L)
- **Powershift Transmission, Including Vertical Cartridge Filter:** 40 qt. (38 L)
- **Rear:** 52 qt. (49 L)
- **Heater and defroster:** 175-lb. (79 kg)
- **Operator:** 26.5R25 X-MINE L5 Michelin Radial Tires: 86.6 in. (2200 mm)
- **31.5-25 Solid Rubber Tires:** 94.5 in. (2400 mm)
- **26.9R25 X-MINE L5 Michelin Radial Tires:** 116.0 in. (2950 mm)

### Dimensions with Pin-On

**Type Waste Buckets**

<table>
<thead>
<tr>
<th>Bucket Lip Capacity</th>
<th>744J WH STANDARD BOOM</th>
<th>744J WH HIGH LIFT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity, Heaped SAE</td>
<td>6.0-cu.-yd. (4.7 m³)</td>
<td>7.0-cu.-yd. (5.3 m³)</td>
</tr>
<tr>
<td>Standard Lip</td>
<td>8.0-cu.-yd. (6.1 m³)</td>
<td>6.0-cu.-yd. (4.7 m³)</td>
</tr>
<tr>
<td>Capacity, Struck SAE</td>
<td>5.3-cu.-yd. (4.0 m³)</td>
<td>6.1-cu.-yd. (4.7 m³)</td>
</tr>
<tr>
<td>Standard Lip</td>
<td>7.1-cu.-yd. (5.4 m³)</td>
<td></td>
</tr>
</tbody>
</table>

### Other Specifications

- **Maximum Dump Angle, Full Height:** 47 degrees
- **Maximum Rollback at Full Height:** 53 degrees
- **Maximum Rollback at Ground Level:** 37 degrees
- **Overall Length:** 27 ft. 10 in. (8405 mm)
- **Height to Top of Cab:** 11 ft. 8 in. (3547 mm)
- **Capacity, Struck SAE:** 5.3-cu.-yd. (4.0 m³)
- **Height to Hinge Pin, Fully Raised:** 14 ft. 2 in. (4324 mm)
- **Dump Reach, Full Height:** 47.2 in. (1199 mm)
- **Overall Length:** 27 ft. 10 in. (8405 mm)
- **Height to Top of Cab:** 11 ft. 8 in. (3547 mm)
- **Maximum Rollback at Ground Level:** 37 degrees
- **Maximum Rollback at Full Height:** 37 degrees
- **Maximum Dump Angle, Full Height:** 47 degrees
- **Bucket Width:** 128 in. (3251 mm)
- **Breakout Force, SAE J732C:** 39,756 lb. (18,030 kg)
- **Tipping Load, Straight:** 49,024 lb. (22,233 kg)
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### 644J / 724J / 744J WASTE HANDLERS

#### Key:
- ● Standard equipment
- ▲ Optional equipment

#### Engine
- ● ● ● Meets EPA and CARB emission non-road regulations
- ● ● ● Antifreeze, $-34 \text{ °F}$ ($-37 \text{ °C}$)
- ● ● ● Coolant recovery tank
- ● ● ● Fan guard
- ● ● ● Muffler, under hood with large exhaust stack
- ● ● ● Environmentally friendly engine oil drain
- ● ● ● Engine oil cooler
- ● ● ● Quick-release fuel filter and water separator

#### Hydraulic System
- ▲▲▲ Either start aid (for cold starts)
- ▲▲▲ Engine air heater (for cold starts)
- ▲▲▲ Engine cooler heater, 1,000 watts, 110 volts
- ▲▲▲ Heavy-duty trash-resistant cooling package
- ▲▲▲ Chrome exhaust stack
- ▲▲▲ Airscreen group: Low-profile perforated hood-mounted air-inlet screen / Engine side shield inlet screens, perforated/corrugated / Engine air-intake precleaner / Engine rubber baffle
- ▲▲▲ Swing-out fan with heavy-duty rear grille
- ▲▲▲ Reversing fan, hydraulic, auto control with manual override

#### Power Train
- ● ● ● Torque converter, powershift transmission, computer-controlled electronic soft shift, automatic shift and quick-shift features included – 3F/3R
- ● ● ● Front axle with hydraulic locking front and conventional rear differentials
- ● ● ● Wide heavy-duty front and rear axles
- ▲▲▲ Front and rear axles with hydraulic locking differentials

#### Hydraulic System
- ● ● ● In-cab adjustable automatic bucket positioner
- ● ● ● In-cab adjustable automatic boom height kickout control
- ● ● ● In-cab adjustable automatic boom return-to-carry control
- ● ● ● Reservoir sight gauge
- ● ● ● Spin-on hydraulic filters, vertical mounting
- ● ● ● Hydraulic lever lockdown
- ● ● ● Two-function hydraulic valve with two-lever fingertip control and adjustable wristrest
- ▲▲▲ Two-function hydraulic valve with joystick control
- ▲▲▲ Three-function hydraulic valve with joystick control and auxiliary lever for third function
- ▲▲▲ Three-function hydraulic valve with two-lever fingertip control, adjustable wristrest, and auxiliary lever for third function

#### Hydraulic System (continued)
- ● ● ● Hydraulic system oil cooler (for continuous running attachments and extreme temperatures)
- ▲▲▲ Ride control, automatic type
- ● ● ● Solid-state electrical power distribution system
- ● ● ● Batteries, high capacity (2), 12 volt with 1,400 CCA, 60 in. ft. / alternator each
- ● ● ● Alternator, high capacity, 80 amps and 24 volts
- ● ● ● Alternator trash cover
- ● ● ● Lights (conforms to SAE J99); High-intensity halogen driving with guards / Turn signals and flashers / Stop and taillights
- ● ● ● Work lights, high-intensity halogen, front (2) and rear (2)
- ▲▲▲ LED heavy-duty taillights
- ● ● ● Horn, with push button in center of steering wheel (conforms to SAE J994, J1446)
- ● ● ● Reverse warning alarm, self-adjusting (conforms to SAE J994, J1446)
- ● ● ● Audible and visual warnings: Amber caution / Red stop / Analog gauges: Engine coolant temperature, transmission oil temperature, fuel level, hydraulic oil temperature, engine oil pressure / Digital instruments: Engine rpm, odometer, transmission gear indicator, speedometer, hour meter / Operator warning lights: Check engine, engine oil pressure, engine air filter restriction, battery voltage, transmission filter restriction, brake pressure, hydraulic oil filter, fasten seat belt, transmission fault, hydraulic oil temperature indicator lights: Park brake / Ride control / Turn signals and warning flashers / Coupler pin disconnect / Engine preheater / Secondary steering / Work lights
- ● ● ● Radio-ready cab: Fused 24-volt radio electrical lead, and fused lead for optional Deere 5-amp and 10-amp voltage converters
- ● ● ● 24-volt AM/FM stereo radio with cassette
- ● ● ● 24-volt AM/FM stereo radio with CD
- ● ● ● Strobe light wired to master electrical disconnect switch

#### Operator’s Station
- ● ● ● Cab (conforms to SAE J1040C APR88); ROPS/FOPS / Heater/defroster / Multi-terrain protection package, high-lift boom, ROPS cab, full fuel tank, and 175-lb. (79 kg) operator; 644J and 724J units with 23.5 X 25 solid rubber tires, and 744J unit with 31.5 X 25 solid rubber tires

#### Operator’s Station (continued)
- ● ● ● Cab floor-mounted lockable master electrical disconnect switch
- ● ● ● Extreme-duty cab entry steps
- ● ● ● Extreme-duty hydraulic bottom guards (fuel tank, loader frame, engine frame)
- ● ● ● Bottom guards, bolt-on, front frame and transmission
- ● ● ● Full-front cab window guard (high-visibility version not designed to SAE J1084)
- ● ● ● Rear-access platforms with step and handhold
- ● ● ● Rear roof-mounted air-conditioner condenser with manually activated reversible electric fans

### Loader Linkage
- ● ● ● Loader boom service locking bar (conforms to SAE J58)
- ● ● ● Z-bar loader linkage
- ● ● ● High-lift boom

### Buckets and Attachments
- ● ● ● Full line of Deere pin-on buckets with selection of bolt-on cutting edges, JAGZ™ cutting edges, and teeth-segmented bolt-on cutting edges*
- ● ● ● Hydraulic control system for quick-coupler locking pins, includes all controls in cab, lines, and valves
- ● ● ● Loadrite™ weighing system*

### Tires
- ▲ ▲ 23.5 X 25
- ▲ ▲ 31.5 X 25
- ▲ ▲ 26.5 X 25
- ▲ ▲ 26.5 X 25 X-MINE L5 Michelin Radial L-5 radial or bias ply
- ▲ ▲ Less wheels and tires
- ▲ ▲ Multi-piece rims

### Other
- ● ● ● Articulation locking bar (conforms to SAE J276)
- ● ● ● Vandal protection, includes lockable engine enclosure, rear grille, and fuel fill
- ● ● ● Counterweight, built-in
- ● ● ● Drawbar, with locking pin
- ● ● ● Lift and tie-down hooks
- ● ● ● Fire extinguisher
- ● ● ● License-plate bracket
- ● ● ● Secondary steering