Steering (conforms to SAE J1511)

Maximum Lift Capacity

Hydraulic System

Parking brake......................................................0.31 qt. (0.3 L) 0.63 qt. (0.6 L)

Loader hydraulic reservoir and filters ..................31 gal. (117 L) 31 gal. (117 L)

Powershift transmission, including vertical

Engine lubrication, including full-flow spin-

Cooling system....................................................23 qt. (22 L) 31 qt. (29 L)

Fuel tank (with ground level fueling)....................70 gal. (265 L) 90 gal. (341 L)

L-5 radial or bias ply tires available.

Turning radius (measured to centerline of

23.5-25 solid rubber tires.............................85.4 in. (2170 mm) 113.1 in. (2874 mm) 0 in. (0 mm)

Lift at maximum height ................................14,282 lb. 14,710 lb. 13,914 lb. 14,344 lb. 13,393 lb. 13,819 lb.

Lift at ground level........................................31,922 lb. 30,813 lb. 31,119 lb. 29,626 lb. 30,458 lb. 28,475 lb.

Rear .............................................................19 qt. (20 L) 29 qt. (27 L)

Rear axle hydraulic oil reservoir and filters .............21 qt. (20 L) 26 qt. (25 L)

Turning radius (measured to centerline of

3.06 m 3) short lip standard lip

5.8 m 3) short lip standard lip

5.4 m 3) short lip standard lip

5.1 m 3) short lip standard lip

0 in. (0 mm)

14,000 lb. 14,500 lb.

13,000 lb. 13,500 lb.

12,000 lb. 12,500 lb.

11,000 lb. 11,500 lb.

10,000 lb. 10,500 lb.

9,000 lb. 9,500 lb.

8,000 lb. 8,500 lb.

7,000 lb. 7,500 lb.

6,000 lb. 6,500 lb.

5,000 lb. 5,500 lb.

4,000 lb. 4,500 lb.

3,000 lb. 3,500 lb.

2,000 lb. 2,500 lb.

1,000 lb. 1,500 lb.

0 lb. 0 lb.

Lift at maximum height ................................14,282 lb. 14,710 lb. 13,914 lb. 14,344 lb. 13,393 lb. 13,819 lb.

Lift at ground level........................................31,922 lb. 30,813 lb. 31,119 lb. 29,626 lb. 30,458 lb. 28,475 lb.

Rear .............................................................19 qt. (20 L) 29 qt. (27 L)

Rear axle hydraulic oil reservoir and filters .............21 qt. (20 L) 26 qt. (25 L)

Turning radius (measured to centerline of

3.06 m 3) short lip standard lip
When you’re talking we’re listening.

You know waste. We know loaders. Combining that knowledge and you get the remarkably durable 600 Series Waste Handlers from John Deere. These machines weren’t only built with you in mind, they were designed with your input. The final product delivers all of the outstanding performance characteristics of our standard loader, as well as plenty of special integrated features to maximize productivity in the harshest waste environments.

Everything from the high lift option for that extra lift to reach up and over high-sided trucks to the component protection guards to keep debris out of areas where you don’t want it, these machines are ready to handle even the harshest waste environments. You’ve never seen waste loaders perform like this. And that’s not just talking’ trash.

### Operating Data

**Reach, 45-degree dump, 7-ft. (2.13 m)**

- **Breakout force, SAE J732C**
  - 37,606 lb. (16,634 kg)
  - 30,270 lb. (13,724 kg)
  - 34,665 lb. (15,694 kg)
  - 25,258 lb. (11,469 kg)
  - 31,836 lb. (14,442 kg)
  - 22,760 lb. (10,326 kg)
- **Maximum dump angle, full height**
  - 44 degrees (111.8°)
  - 44 degrees (111.8°)
  - 44 degrees (111.8°)
  - 44 degrees (111.8°)
  - 44 degrees (111.8°)
  - 44 degrees (111.8°)
- **Maximum rollback at full height**
  - 40.8 degrees (119.3°)
  - 40.8 degrees (119.3°)
  - 40.8 degrees (119.3°)
  - 40.8 degrees (119.3°)
  - 40.8 degrees (119.3°)
  - 40.8 degrees (119.3°)
- **Maximum rollback at ground level**
  - 35 degrees (101.7°)
  - 35 degrees (101.7°)
  - 35 degrees (101.7°)
  - 35 degrees (101.7°)
  - 35 degrees (101.7°)
  - 35 degrees (101.7°)
- **Maximum digging depth**
  - 7.5 in. (190 mm)
  - 7.5 in. (190 mm)
  - 7.5 in. (190 mm)
  - 7.5 in. (190 mm)
  - 7.5 in. (190 mm)
  - 7.5 in. (190 mm)
- **Dump reach**
  - 38.1 in. (968 mm)
  - 46.0 in. (1167 mm)
  - 40.4 in. (1026 mm)
  - 52.9 in. (1343 mm)
  - 43.1 in. (1094 mm)
  - 57.3 in. (1455 mm)
- **Height to hinge pin, fully raised**
  - 15 ft. 4 in. (4685 mm)
  - 15 ft. 4 in. (4685 mm)
  - 15 ft. 4 in. (4685 mm)
  - 15 ft. 4 in. (4685 mm)
  - 15 ft. 4 in. (4685 mm)
  - 15 ft. 4 in. (4685 mm)
- **Dump height**
  - 12 ft. 7 in. (3830 mm)
  - 11 ft. 5 in. (3480 mm)
  - 11 ft. 9 in. (3580 mm)
  - 10 ft. 11 in. (3320 mm)
  - 11 ft. 7 in. (3530 mm)
  - 10 ft. 7.5 in. (3200 mm)
- **Ground clearance**
  - 73.9 in. (1878 mm)
  - 78.6 in. (1996 mm)
  - 75.3 in. (1913 mm)
  - 82.1 in. (2086 mm)
  - 76.8 in. (1952 mm)
  - 84.2 in. (2138 mm)

### 644H Dimensions with Pin-on Type Waste Buckets

- **Bucket capacity (max.) with solid rubber tires**
  - 4.0-cu. yd. (3.06 m³)
  - 4.0-cu. yd. (3.06 m³)
  - 5.0-cu. yd. (3.8 m³)
  - 5.0-cu. yd. (3.8 m³)
  - 6.0-cu. yd. (4.6 m³)
  - 6.0-cu. yd. (4.6 m³)

### Specifications

- **Loader operating information is based on a machine with all standard equipment; waste handler complete protection package; 23.5-25 solid rubber tires; high-lift boom; 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.**

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(continued)
The optional roof-mounted air-conditioning condenser has no stacked cores and provides easy daily cleanout.

Articulation guards, drive-shaft guard, and transmission side guards provide extra protection on the work site.

Our performance edge starts at the engine with power bulge — the availability of Deere PowerTech™ diesels to generate extra horsepower when the going gets tough. That means you can power through challenging situations without downshifting.

Both the articulation joint and drive shaft are protected from corrosion and trash by guards.

The rear of the loader frame is guarded to protect it from destructive waste.
The excellent balance of operator protection and visibility is obvious the moment you take the seat.

The unique low-profile, hood-mounted trapezoidal air-inlet screen protects the engine and cooling system.

High-intensity, guarded, halogen driving lights help keep the work area illuminated.

Strategically placed guards protect axle seals and help insulate the heavy-duty axles from harmful trash and contamination.

Service access is convenient, including wide, easy-to-open access doors.

With six fins per inch, the wide-open spacing allows debris to easily exit the radiator, keeping it clean and running efficiently.

No vulnerable underbelly here. A set of optional hydraulic-actuated bottom guards protect the frame, engine area, and fuel tank.

The high-lift option adds more than a foot to the boom, providing the extra lift needed to reach up and over high-sided trucks/trailers.
Self-cleaning shields protect the boom and bucket cylinders by automatically ejecting corrosive waste every time you raise the bucket. Maybe this is what they mean by “the perks of the job.” Comfort. Convenience. Excellent controls. Great visibility. You simply won’t find a more operator-friendly loader than the 624H or 644H Waste Handler. They keep their cool even when the going gets tough, thanks to a remarkable air-screen group that effectively blocks trash and other airborne debris. And, the reversing fan uses a timer to routinely eject debris from the engine shield as you work. As an added precaution, the operator can reverse the fan at any time by depressing a button conveniently located in the cab. This unique feature allows you to keep working with less downtime and machine maintenance.

Optional swing-out cooling fan makes cleanout fast and easy. The hydraulically powered unit is also reversible, so it can be used to blow debris off the screens.

The standard, eight-cubic-yard bucket comes equipped with a trash guard. Other bucket options are available to meet your customized needs.
### Engine

**624H**
- **Type**: John Deere PowerTech™ 6068H with altitude-compensating turbo-charger and aftercooler; meets North American EPA and CARB non-road diesel engine emission regulations effective January 1, 1997; also is certifiable to proposed E.U. (European Union) regulations, which are not yet effective.
- **Rated power**: 160 SAE net hp (119 kW) / 172 SAE gross hp (128 kW) @ 2,200 rpm
- **Displacement**: 414 cu. in. (6.8 L)
- **Cooling fan**: blower type, hydraulically driven, reversible swing out
- **Lubrication**: pressure system with full-flow spin-on filter and cooler
- **Maximum net torque**: 575 lb.-ft. (720 Nm) @ 1,400 rpm
- **Rated power**: 180 SAE net hp (134 kW) / 206 SAE gross hp (153 kW) @ 2,200 rpm
- **Displacement**: 496 cu. in. (8.1 L)
- **Cooling fan**: blower type, hydraulically driven, reversible swing out
- **Lubrication**: pressure system with full-flow spin-on filter and cooler
- **Maximum net torque**: 745 lb.-ft. (1010 Nm) @ 1,300 rpm

### Transmission

**624H**
- **Type**: single-stage, single-phase torque converter; countershaft-type powershift with computer control
- **Transmission controls**: smooth shifts under any power condition provided by computer-controlled electronic shift with individual electronic control over each clutch pack, one low-effort twist-grip shift lever, quick-shift button on hydraulic lever, automatic shift feature is selectable to shift between gears 1–3 or 2–3
- **Travel speeds**
  - **Forward**: Gear 1: 5.1 mph (8.2 km/h), Gear 2: 8.1 mph (13.0 km/h), Gear 3: 15.0 mph (24.1 km/h)
  - **Reverse**: 3,600 psi (24 850 kPa)
  - **Maximum flow**: 55 gpm (200 L/min.) @ 1,000 psi (6895 kPa) and 2,200 rpm
  - **Pressure**: Loader and steering relief 3,600 psi (24 850 kPa)
- **Axles**
  - Final drives: heavy-duty planetary, mounted inboard
  - Differentials: conventional front and rear – standard; hydraulic locking front, conventional rear – optional; dual locking front and rear – optional; limited-slip front and rear – optional
  - Rear axle oscillation, stop to stop: 18 degrees
  - Maximum rise and fall, single wheel: 12.6 in. (320 mm)
- **Brakes**
  - Service brakes: inboard-mounted hydraulic wet disc, bathed in cooling oil, long life self-adjusting
  - Parking brake: automatically spring applied, hydraulically released, wet disc bathed in cooling oil
- **Hydraulic System**
  - Pump (loader and steering): variable-displacement, axial piston pump; closed-center, pressure compensating system
  - Maximum flow: 68 gpm (257 L/min.) @ 1,000 psi (6895 kPa) and 2,200 rpm
  - 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

**644H**
- **Type**: single-stage, single-phase torque converter; countershaft-type powershift with computer control
- **Transmission controls**: smooth shifts under any power condition provided by computer-controlled electronic shift with individual electronic control over each clutch pack, one low-effort twist-grip shift lever, quick-shift button on hydraulic lever, automatic shift feature is selectable to shift between gears 1–3 or 2–3
- **Travel speeds**
  - **Forward**: Gear 1: 6.1 mph (9.8 km/h), Gear 2: 8.6 mph (13.8 km/h), Gear 3: 16.0 mph (25.8 km/h)
  - **Reverse**: 745 lb.-ft. (1010 Nm) @ 1,300 rpm
  - **Maximum flow**: 68 gpm (257 L/min.) @ 1,000 psi (6895 kPa) and 2,200 rpm
  - **Pressure**: Loader and steering relief 3,600 psi (24 850 kPa)
- **Axles**
  - Final drives: heavy-duty planetary, mounted inboard
  - Differentials: conventional front and rear – standard; hydraulic locking front, conventional rear – optional; dual locking front and rear – optional; limited-slip front and rear – optional
  - Rear axle oscillation, stop to stop: 18 degrees
  - Maximum rise and fall, single wheel: 13.4 in. (340 mm)
- **Brakes**
  - Service brakes: inboard-mounted hydraulic wet disc, bathed in cooling oil, long life self-adjusting
  - Parking brake: automatically spring applied, hydraulically released, wet disc bathed in cooling oil
- **Hydraulic System**
  - Pump (loader and steering): variable-displacement, axial piston pump; closed-center, pressure compensating system
  - Maximum flow: 68 gpm (257 L/min.) @ 1,000 psi (6895 kPa) and 2,200 rpm
  - 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
### Specifications

<table>
<thead>
<tr>
<th>624H</th>
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<tbody>
<tr>
<td><strong>Engine</strong></td>
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<tr>
<td>HP (at 2100 RPM)</td>
<td>160–180 SAE NET HORSEPOWER</td>
</tr>
<tr>
<td><strong>Transmission</strong></td>
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<td>Speeds</td>
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<td>4-Wheel drive</td>
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<td><strong>Horsepower</strong></td>
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</table>
| **Fuel tank (with ground level fueling)....................70 gal. (265 L) 90 gal. (341 L) | **Fuel tank (with ground level fueling)....................70 gal. (265 L) 90 gal. (341 L) **
| **Change In Lift at maximum height ................................15,386 lb. 15,993 lb. 14,877 lb. 15,435 lb. 14,555 lb. 15,124 lb.** | **Change In Lift at maximum height ................................14,282 lb. 14,710 lb. 13,914 lb. 14,344 lb. 13,393 lb. 13,819 lb.** |
| **Lift at ground level........................................25,309 lb. 25,018 lb. 24,826 lb. 24,149 lb. 24,098 lb. 23,834 lb.** | **Lift at ground level........................................25,309 lb. 25,018 lb. 24,826 lb. 24,149 lb. 24,098 lb. 23,834 lb.** |
| **Fuel on filter.........................................................21 qt. (20 L) 26 qt. (25 L)** | **Fuel on filter.........................................................21 qt. (20 L) 26 qt. (25 L)** |
| **Turning radius (measured to centerline of outside tire) ..................................................17 ft. 0 in. (5187 mm) 18 ft. 0 in. (5500 mm)** | **Turning radius (measured to centerline of outside tire) ..................................................17 ft. 0 in. (5187 mm) 18 ft. 0 in. (5500 mm)** |

### Additional Features
- 624J unit
- Full fuel tanks
- 175-lb. (79 kg) operators
- Hydraulic oil temperature
- Engine oil pressure
- Hydraulic oil temperature
- Hydraulic oil pressure
- Engine air filter
- Battery voltage
- Operator warning lights
- Coolant level
- Engine temperature
- Oil temperature
- Digital instruments
- Engine coolant temperature
- Heavy-duty rear grille
- Grease-fitting guards
- Drive-shaft guard
- Extreme-duty hydraulic bottom guards
- Fuel fill sensor guard
- Reverse warning alarm
- Self-adjusting (conventional and quick-shift button sequences)
- Push-button code retrieval
- Operator’s Station
- FOPS
- Heater/Defroster
- Multiplane isolation
- Engine rubber baffle
- Air-intake precleaner
- Engine rubber baffle
- ROPS cabs
- Full fuel tanks
- 175-lb. (79 kg) operators
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- Engine air filter
- Battery voltage
- Operator warning lights
- Coolant level
- Engine temperature
- Oil temperature
- Digital instruments
- Engine coolant temperature

### Engine Specifications

- **Engine Type:** 160–180 SAE NET HORSEPOWER
- **Fuel System:** Autom. Hydrogen
- **Cooling System:** Auto.
- **Transmission:** 4-Speed
- **Steering:** 4-Wheel Drive
- **Horsepower:** 160–180 SAE NET HORSEPOWER
When you’re talking, we’re listening.

The truth is that we’re very, very good at listening. You’ll notice that sometimes, we talk a lot. But that’s just about what it takes to keep a conversation going.

You know waste. We know loaders. Combining that knowledge and you get the remarkably durable 600 Series Waste Handlers from John Deere. These machines weren’t only built with you in mind, they were designed with your input. The final product delivers all of the outstanding performance characteristics of our standard loader, as well as plenty of special integrated features to maximize productivity in the harshest waste environments. Everything from the high-lift option for that extra lift to reach up and over high-sided trucks to the component protection guards to keep debris out of areas where you don’t want it. These machines are ready to handle even the harshest waste environments. You’ve never seen waste loaders perform like this. And that’s not just talkin’ trash.

When you’re talking trash, that’s not just talkin’ trash.

You don’t want it, these machines are ready to handle even the harshest waste environments. You’ve never seen waste loaders perform like this. And that’s not just talkin’ trash.
When you’re talking, we’re listening.

You know waste. We know loaders. Combining that knowledge and you get the remarkably durable 644 H-Series Waste Handlers from John Deere. These machines weren’t only built with you in mind, they were designed with your input. The final product delivers all of the outstanding performance characteristics of our standard loader, as well as plenty of special integrated features to maximize productivity.

In the harshest waste environments. Everything from the high lift option for that extra lift to much up and over high-sided trucks to the component protection guards to keep debris out of areas where you don’t want it. These machines are ready to handle even the harshest waste environments. You’ve never seen waste loaders perform like this. And that’s not just talkin’ trash.
Capacities (U.S.)

Tires

Steering (conforms to SAE J1511) 624H 644H

- Maximum Lift Capacity
  - Both tire types require 9-degree axle stops.
  - Parking brake......................................................0.31 qt. (0.3 L) 0.63 qt. (0.6 L)
  - Loader hydraulic reservoir and filters ..................31 gal. (117 L) 31 gal. (117 L)

Differential (each axle)

- Powershift transmission, including vertical
  - Fuel tank (with ground level fueling)....................70 gal. (265 L) 90 gal. (341 L)

- Pressure..............................................................3,600 psi (24 850 kPa) relief

- 5.0-cu. yd. (3.8 m³) 6.0-cu. yd. (4.6 m³) 7.0-cu. yd. (5.4 m³)

- Hydraulic cycle times
  - Lift at ground level........................................25,309 lb. 25,018 lb. 24,826 lb. 24,149 lb. 24,098 lb. 23,834 lb.
  - Front.............................................................30 qt. (28 L) 29 qt. (27 L)
  - Raise ............................................................5.8 sec. 6.2 sec.

- Inside tire) ..................................................17 ft. 0 in. (5187 mm) 18 ft. 0 in. (5500 mm)

- 3,600 psi (24 850 kPa) relief

- 5.0-cu. yd. (3.8 m³) short lip standard lip (4.6 m³ short lip standard lip (5.4 m³ short lip standard lip

- Engine

- Key:

- Two- to three-function valve hydraulic con-
  - Three-function hydraulic valve with joystick
  - Two-function hydraulic valve with two levers

- Automatic boom return-to-carry control

- Front axle disconnect

- Chrome exhaust stack

- 24-volt electrical system

- Deluxe monitor and alarm system, multifunc-
  - Speedometer, engine oil pressure, hydraulic
  - Transmission oil temperature, fuel level,

- Net engine power is with standard equipment including air cleaner, exhaust

- See your John Deere dealer for further information.

- Electrical

- Seat, air suspension, deluxe cloth covered

- Cab (conforms to SAE J1040 APR88): ROPS/
  - Boom cylinder and hydraulic lines guard
  - Axle seal guards

- Storage compartment for operator's manual

- Rearview mirrors, outside (2) and inside (2)

- Reverse warning alarm, self-adjusting (con-
  - Lights (conform to SAE J99): Driving with

- Horn, with push button in center of steering

- Indicators lights (turn signals, warning flash-
  - Operator warning lights (coolant level, engine

- Operator's Station

- Conventional-type differentials, front and rear

- Environmentally friendly engine oil drain

- Engine oil cooler

- Coolant recovery tank

- Engine oil filter

- Oil pressure sensor guard

- Air-intake precleaner / Engine rubber baffle

- Mounted air-inlet screen / Engine side shield

- FOPS / Heater/Defroster / Multiplane isol-

- Bucket cylinder hydraulic lines, zerk, and

- Bucket cylinder hydraulic lines, zerk, and

- Low pressure fuel and oil filters
  - High pressure fuel and oil filters

- Safety components and operator warning lights

- Fuel and oil filters
  - Fuel and oil filters

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- Safety components and operator warning lights

- Fuel and oil filters
  - Fuel and oil filters

- Engine oil filter

- Oil pressure sensor guard

- Air-intake precleaner / Engine rubber baffle

- Mounted air-inlet screen / Engine side shield

- FOPS / Heater/Defroster / Multiplane isol-

- Bucket cylinder hydraulic lines, zerk, and

- Bucket cylinder hydraulic lines, zerk, and

- Low pressure fuel and oil filters
  - High pressure fuel and oil filters

- Safety components and operator warning lights

- Fuel and oil filters
  - Fuel and oil filters

- Engine oil filter

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