

1 6 0 - 1 8 0 S A E N E T H O R S E P O W E R

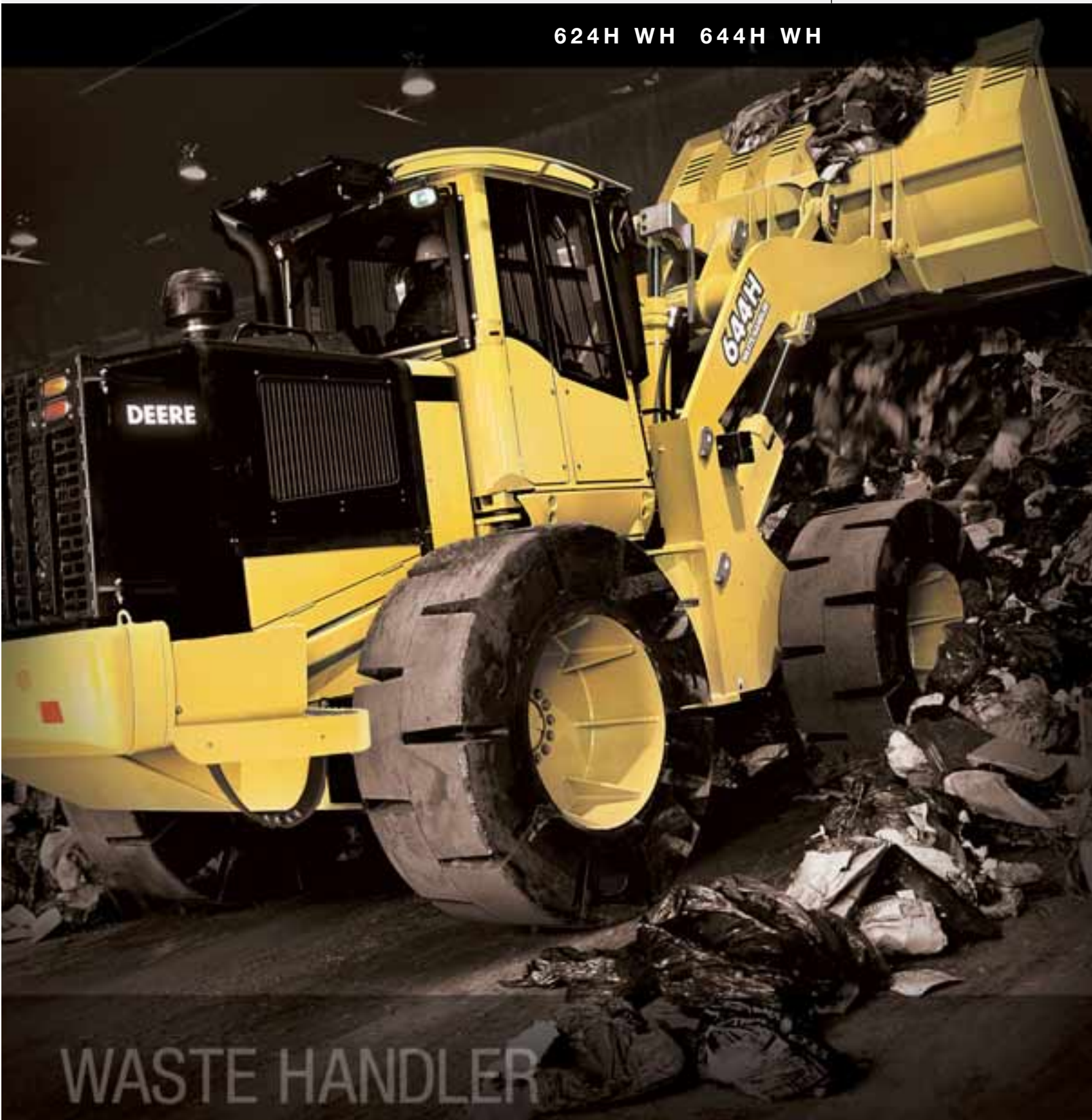


**JOHN DEERE**

**H**

**LOADERS**

**624H WH 644H WH**




**WASTE HANDLER**



# When you're talking we're listening.

The trash deflector helps protect the rear axles from the impact shock caused by backing into a solid object. It also provides access to the engine compartment.



You know waste. We know loaders. Combine that knowledge and you get the remarkably durable 600 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 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.



# trash,


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.

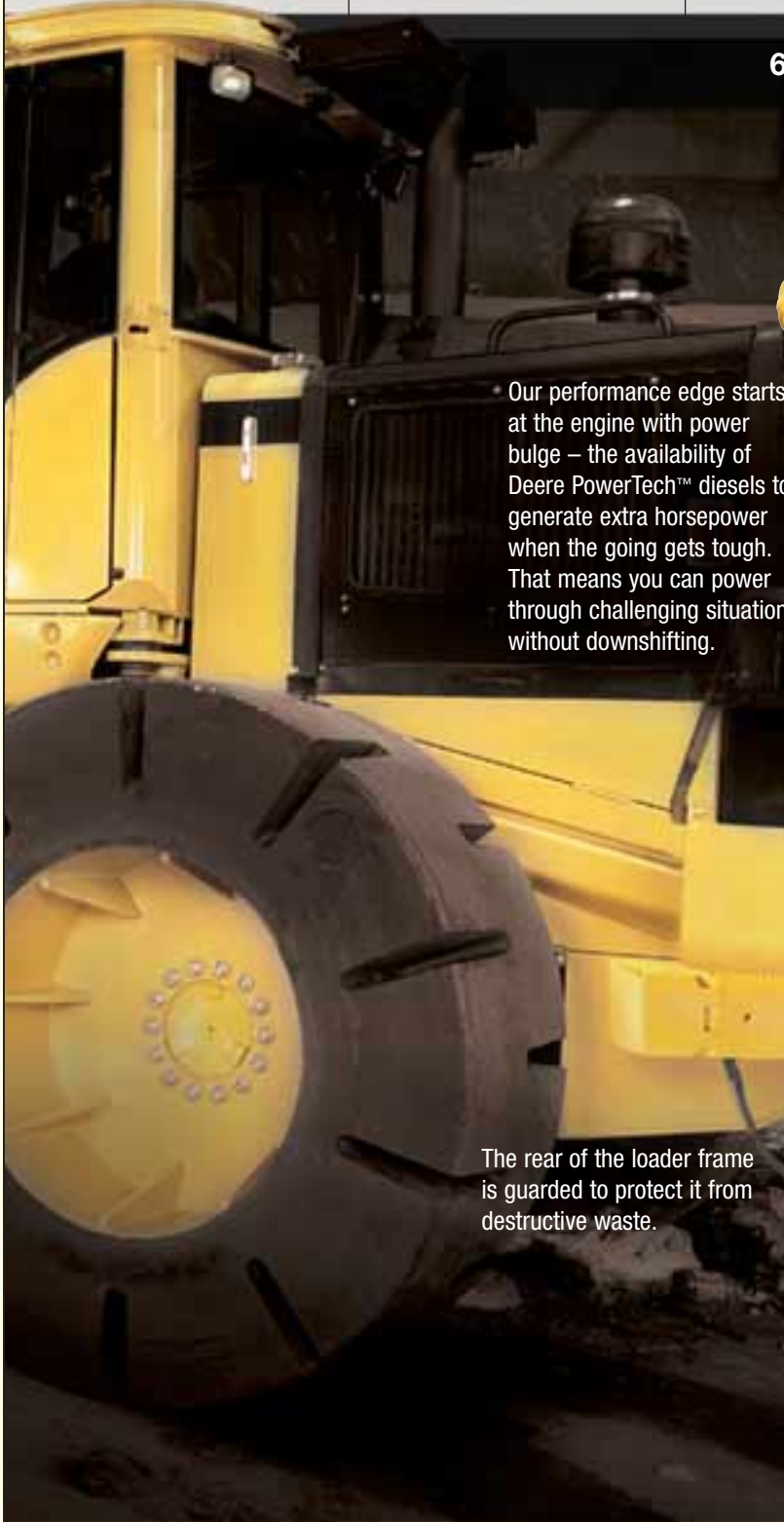
# H

## LOADERS

624H WH 644H WH



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.

# Cool to operate... in more ways than one.

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.



# 624H 644H WASTE HANDLERS

LOADERS

SPECIFICATIONS



CONSTRUCTION EQUIPMENT

Engine	624H	644H
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	John Deere POWERTECH 6081H 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	180 SAE net hp (134 kW) / 205 SAE gross hp (153 kW) @ 2,200 rpm
Cylinders .....	6	6
Displacement.....	414 cu. in. (6.8 L)	496 cu. in. (8.1 L)
Maximum net torque .....	575 lb.-ft. (720 Nm) @ 1,400 rpm	745 lb.-ft. (1010 Nm) @ 1,300 rpm
Lubrication .....	pressure system with full-flow spin-on filter and cooler	pressure system with full-flow spin-on filter and cooler
Fuel consumption, typical .....	2.9 to 5.8 gal./hr. (10.9 to 21.8 L/h)	2.9 to 5.0 gal./hr. (10.9 to 18.8 L/h)
Cooling fan .....	blower type, hydraulically driven, reversible swing out	blower type, hydraulically driven, reversible swing out
Electrical system .....	24 volt with 55-amp alternator	24 volt with 55-amp alternator
Batteries (two 12 volt).....	625 CCA; reserve capacity: 160 min. – standard / 950 CCA; reserve capacity; 200 min. – optional	750 CCA; reserve capacity: 150 min. – standard / 950 CCA; reserve capacity; 200 min. – optional
Air cleaner .....	dual safety element dry type; restriction indicator for service	dual safety element dry type; restriction indicator for service

## Transmission

Type .....	single-stage, single-phase torque converter; countershaft-type powershift with computer control	single-stage, single-phase torque converter; countershaft-type powershift with computer control																								
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	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*	<table border="1"> <thead> <tr> <th></th> <th>Forward</th> <th>Reverse</th> </tr> </thead> <tbody> <tr> <td>Gear 1 .....</td> <td>5.1 mph (8.2 km/h)</td> <td>5.4 mph (8.7 km/h)</td> </tr> <tr> <td>Gear 2 .....</td> <td>8.1 mph (13.0 km/h)</td> <td>8.6 mph (13.8 km/h)</td> </tr> <tr> <td>Gear 3 .....</td> <td>15.0 mph (24.1 km/h)</td> <td>16.0 mph (25.8 km/h)</td> </tr> </tbody> </table>		Forward	Reverse	Gear 1 .....	5.1 mph (8.2 km/h)	5.4 mph (8.7 km/h)	Gear 2 .....	8.1 mph (13.0 km/h)	8.6 mph (13.8 km/h)	Gear 3 .....	15.0 mph (24.1 km/h)	16.0 mph (25.8 km/h)	<table border="1"> <thead> <tr> <th></th> <th>Forward</th> <th>Reverse</th> </tr> </thead> <tbody> <tr> <td>Gear 1 .....</td> <td>5.3 mph (8.5 km/h)</td> <td>5.5 mph (8.9 km/h)</td> </tr> <tr> <td>Gear 2 .....</td> <td>9.1 mph (14.6 km/h)</td> <td>9.6 mph (15.4 km/h)</td> </tr> <tr> <td>Gear 3 .....</td> <td>17.1 mph (27.5 km/h)</td> <td>17.8 mph (28.6 km/h)</td> </tr> </tbody> </table>		Forward	Reverse	Gear 1 .....	5.3 mph (8.5 km/h)	5.5 mph (8.9 km/h)	Gear 2 .....	9.1 mph (14.6 km/h)	9.6 mph (15.4 km/h)	Gear 3 .....	17.1 mph (27.5 km/h)	17.8 mph (28.6 km/h)
	Forward	Reverse																								
Gear 1 .....	5.1 mph (8.2 km/h)	5.4 mph (8.7 km/h)																								
Gear 2 .....	8.1 mph (13.0 km/h)	8.6 mph (13.8 km/h)																								
Gear 3 .....	15.0 mph (24.1 km/h)	16.0 mph (25.8 km/h)																								
	Forward	Reverse																								
Gear 1 .....	5.3 mph (8.5 km/h)	5.5 mph (8.9 km/h)																								
Gear 2 .....	9.1 mph (14.6 km/h)	9.6 mph (15.4 km/h)																								
Gear 3 .....	17.1 mph (27.5 km/h)	17.8 mph (28.6 km/h)																								

\*624H equipped with 20.5-25 solid rubber tires; 644H equipped with 23.5-25 solid rubber tires.

## Axles

Final drives .....	heavy-duty planetary, mounted inboard	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	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	18 degrees
Maximum rise and fall, single wheel.....	12.6 in. (320 mm)	13.4 in. (340 mm)

## Brakes (conform to SAE J1473, ISO3450) 624H / 644H

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

	624H	644H
Pump (loader and steering).....	variable-displacement, axial piston pump; closed-center, pressure compensating system	variable-displacement, axial piston pump; closed-center, pressure compensating system
Maximum flow .....	55 gpm (200 L/min.) @ 1,000 psi (6895 kPa) and 2,200 rpm	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 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	two-function valve; single- or dual-lever controls; control lever lockout feature; optional third- and fourth-function valve with auxiliary lever

**Hydraulic System (continued)****624H****644H**

## Hydraulic cycle times

Raise .....	5.8 sec.	6.2 sec.
Dump .....	1.4 sec.	1.4 sec.
Lower .....	3.0 sec. (float down) / 3.5 sec. (power down)	3.0 sec. (float down) / 3.5 sec. (power down)
Total .....	10.2 sec.	10.6 sec.

**624H Maximum Lift Capacity**

SAE heaped capacity.....	4.0-cu. yd. (3.06 m <sup>3</sup> ) short lip	4.0-cu. yd. (3.06 m <sup>3</sup> ) standard lip	5.0-cu. yd. (3.8 m <sup>3</sup> ) short lip	5.0-cu. yd. (3.8 m <sup>3</sup> ) standard lip	6.0-cu. yd. (4.6 m <sup>3</sup> ) short lip	6.0-cu. yd. (4.6 m <sup>3</sup> ) standard lip
Lift at ground level.....	25,309 lb. (11 478 kg)	25,018 lb. (11 346 kg)	24,826 lb. (11 259 kg)	24,149 lb. (10 952 kg)	24,098 lb. (10 929 kg)	23,834 lb. (10 809 kg)
Lift at maximum height .....	14,282 lb. (6477 kg)	14,710 lb. (6671 kg)	13,914 lb. (6310 kg)	14,344 lb. (6505 kg)	13,393 lb. (6074 kg)	13,819 lb. (6267 kg)

**644H Maximum Lift Capacity**

SAE heaped capacity.....	5.0-cu. yd. (3.8 m <sup>3</sup> ) short lip	5.0-cu. yd. (3.8 m <sup>3</sup> ) standard lip	6.0-cu. yd. (4.6 m <sup>3</sup> ) short lip	6.0-cu. yd. (4.6 m <sup>3</sup> ) standard lip	7.0-cu. yd. (5.4 m <sup>3</sup> ) short lip	7.0-cu. yd. (5.4 m <sup>3</sup> ) standard lip
Lift at ground level.....	31,922 lb. (14 477 kg)	30,813 lb. (13 974 kg)	31,119 lb. (14 113 kg)	29,626 lb. (13 436 kg)	30,458 lb. (13 813 kg)	28,475 lb. (12 914 kg)
Lift at maximum height .....	15,386 lb. (6978 kg)	15,993 lb. (7253 kg)	14,877 lb. (6747 kg)	15,435 lb. (7000 kg)	14,555 lb. (6601 kg)	15,124 lb. (6859 kg)

**Steering (conforms to SAE J1511)****624H****644H**

Type .....	power, fully hydraulic	power, fully hydraulic
Pressure.....	3,600 psi (24 850 kPa) relief	3,600 psi (24 850 kPa) relief
Articulation angle .....	80-degree arc (40 degrees each direction)	80-degree arc (40 degrees each direction)
Turning radius (measured to centerline of outside tire) .....	17 ft. 0 in. (5187 mm)	18 ft. 0 in. (5500 mm)

**Tires**

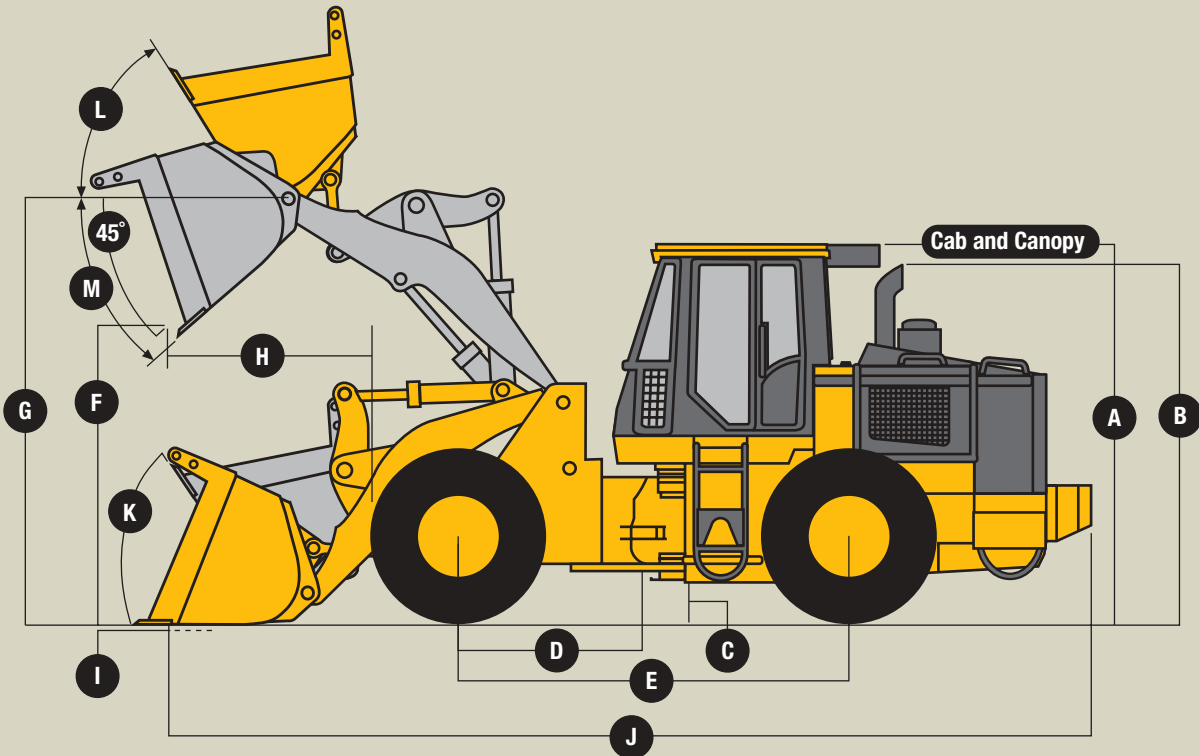
Standard	Tread Width	Width Over Tires	Change In Vertical Height	Tread Width	Width Over Tires	Change In Vertical Height
20.5-25 solid rubber tires.....	80.7 in. (2050 mm)	101.3 in. (2572 mm)	0 in. (0 mm)			
23.5-25 solid rubber tires.....	85.4 in. (2170 mm)	113.1 in. (2874 mm)	0 in. (0 mm)			

L-5 radial or bias ply tires available.

Both tire types require 9-degree axle stops.

**Capacities (U.S.)**

Fuel tank (with ground level fueling).....	70 gal. (265 L)	90 gal. (341 L)
Cooling system.....	23 qt. (22 L)	31 qt. (29 L)
Engine lubrication, including full-flow spin- on filter.....	21 qt. (20 L)	26 qt. (25 L)
Powershift transmission, including vertical cartridge filter.....	29 qt. (27 L)	27 qt. (26 L)
Differential (each axle)		
Front.....	30 qt. (28 L)	29 qt. (27 L)
Rear .....	19 qt. (20 L)	29 qt. (27 L)
Loader hydraulic reservoir and filters .....	31 gal. (117 L)	31 gal. (117 L)
Parking brake.....	0.31 qt. (0.3 L)	0.63 qt. (0.6 L)



### 624H Dimensions with Pin-on Type Waste Buckets

Bucket lip capacity (equipped with bolt-on cutting edges)

Capacity, heaped SAE .....	4.0-cu. yd. (3.06 m <sup>3</sup> ) short lip	4.0-cu. yd. (3.06 m <sup>3</sup> ) standard lip	5.0-cu. yd. (3.8 m <sup>3</sup> ) short lip	5.0-cu. yd. (3.8 m <sup>3</sup> ) standard lip	6.0-cu. yd. (4.6 m <sup>3</sup> ) short lip	6.0-cu. yd. (4.6 m <sup>3</sup> ) standard lip
Capacity, struck SAE .....	3.1-cu. yd. (2.37 m <sup>3</sup> ) short lip	3.5-cu. yd. (2.68 m <sup>3</sup> ) standard lip	4.0-cu. yd. (3.06 m <sup>3</sup> ) short lip	4.3-cu. yd. (3.29 m <sup>3</sup> ) standard lip	5.0-cu. yd. (3.82 m <sup>3</sup> ) short lip	5.2-cu. yd. (3.98 m <sup>3</sup> ) standard lip
<b>A</b> Height to top of cab and canopy .....	11 ft. 0 in. (3351 mm)	11 ft. 0 in. (3351 mm)	11 ft. 0 in. (3351 mm)	11 ft. 0 in. (3351 mm)	11 ft. 0 in. (3351 mm)	11 ft. 0 in. (3351 mm)
<b>B</b> Height to top of exhaust .....	11 ft. 0 in. (3356 mm)	11 ft. 0 in. (3356 mm)	11 ft. 0 in. (3356 mm)	11 ft. 0 in. (3356 mm)	11 ft. 0 in. (3356 mm)	11 ft. 0 in. (3356 mm)
<b>C</b> Ground clearance .....	18 in. (457 mm)	18 in. (457 mm)	18 in. (457 mm)	18 in. (457 mm)	18 in. (457 mm)	18 in. (457 mm)
<b>D</b> Length from centerline to front axle .....	60 in. (1515 mm)	60 in. (1515 mm)	60 in. (1515 mm)	60 in. (1515 mm)	60 in. (1515 mm)	60 in. (1515 mm)
<b>E</b> Wheelbase .....	119 in. (3030 mm)	119 in. (3030 mm)	119 in. (3030 mm)	119 in. (3030 mm)	119 in. (3030 mm)	119 in. (3030 mm)
<b>F</b> Dump height .....	11 ft. 1.8 in. (3399 mm)	10 ft. 10.4 in. (3312 mm)	10 ft. 11.8 in. (3348 mm)	10 ft. 5.9 in. (3199 mm)	10 ft. 9.8 in. (3297 mm)	10 ft. 0 in. (3048 mm)
<b>G</b> Height to hinge pin, fully raised .....	14 ft. 4 in. (4379 mm)	14 ft. 4 in. (4379 mm)	14 ft. 4 in. (4379 mm)	14 ft. 4 in. (4379 mm)	14 ft. 4 in. (4379 mm)	14 ft. 4 in. (4379 mm)
<b>H</b> Dump reach .....	36.1 in. (917 mm)	41.2 in. (1047 mm)	38.3 in. (974 mm)	46.3 in. (1176 mm)	40.6 in. (1030 mm)	53.1 in. (1349 mm)
<b>I</b> Maximum digging depth .....	5.3 in. (135 mm)	5.3 in. (135 mm)	5.3 in. (135 mm)	5.3 in. (135 mm)	5.3 in. (135 mm)	5.3 in. (135 mm)
<b>J</b> Overall length .....	25 ft. 2 in. (7682 mm)	25 ft. 8 in. (7832 mm)	25 ft. 5 in. (7758 mm)	26 ft. 3 in. (8003 mm)	25 ft. 8 in. (7835 mm)	27 ft. 0 in. (8233 mm)
<b>K</b> Maximum rollback at ground level .....	33.7 degrees	34.7 degrees	33.7 degrees	34.7 degrees	33.7 degrees	34.7 degrees
<b>L</b> Maximum rollback at full height .....	43.7 degrees	44.7 degrees	43.7 degrees	44.7 degrees	43.7 degrees	44.7 degrees
<b>M</b> Maximum dump angle, full height .....	46.2 degrees	45.2 degrees	46.2 degrees	45.2 degrees	46.2 degrees	45.2 degrees
Bucket width .....	128.0 in. (3251 mm)	114.7 in. (2913 mm)	128.0 in. (3251 mm)	114.7 in. (2913 mm)	128.0 in. (3251 mm)	114.7 in. (2913 mm)
Breakout force, SAE J732C .....	30,312 lb. (13 747 kg)	26,411 lb. (11 978 kg)	27,787 lb. (12 602 kg)	22,632 lb. (10 264 kg)	25,516 lb. (11 572 kg)	18,791 lb. (8522 kg)
Tipping load, straight .....	23,860 lb. (10 821 kg)	23,552 lb. (10 681 kg)	23,750 lb. (10 771 kg)	22,791 lb. (10 336 kg)	23,342 lb. (10 586 kg)	22,456 lb. (10 184 kg)



### 624H Dimensions with Pin-on Type Waste Buckets (continued)

Tipping load, 40-degree full turn, SAE.....	20,125 lb. (9127 kg)	19,900 lb. (9025 kg)	19,988 lb. (9065 kg)	19,199 lb. (8707 kg)	19,583 lb. (8881 kg)	18,840 lb. (8544 kg)
Reach, 45-degree dump, 7-ft. (2.13 m) clearance.....	68.8 in. (1748 mm)	71.3 in. (1811 mm)	70.1 in. (1781 mm)	73.9 in. (1877 mm)	71.4 in. (1812 mm)	77.0 in. (1956 mm)
Loader clearance circle, bucket in carry position.....	42 ft. 0 in. (12 804 mm)	41 ft. 4 in. (12 585 mm)	42 ft. 2 in. (12 852 mm)	41 ft. 8 in. (12 698 mm)	42 ft. 4 in. (12 900 mm)	42 ft. 2 in. (12 852 mm)
Operating weight.....	38,859 lb. (17 623 kg)	38,477 lb. (17 450 kg)	39,227 lb. (17 790 kg)	38,894 lb. (17 639 kg)	39,763 lb. (18 033 kg)	39,447 lb. (17 890 kg)

Loader operating information is based on a machine with all standard equipment; waste handler complete protection package; 20.5-25 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.

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

Bucket lip capacity (equipped with bolt-on cutting edges)						
Capacity, heaped SAE.....	5.0-cu. yd. (3.8 m <sup>3</sup> ) short lip	5.0-cu. yd. (3.8 m <sup>3</sup> ) standard lip	6.0-cu. yd. (4.6 m <sup>3</sup> ) short lip	6.0-cu. yd. (4.6 m <sup>3</sup> ) standard lip	7.0-cu. yd. (5.4 m <sup>3</sup> ) short lip	7.0-cu. yd. (5.4 m <sup>3</sup> ) standard lip
Capacity, struck SAE.....	4.4-cu. yd. (3.4 m <sup>3</sup> ) short lip	4.0-cu. yd. (3.1 m <sup>3</sup> ) standard lip	5.5-cu. yd. (4.2 m <sup>3</sup> ) short lip	5.0-cu. yd. (3.8 m <sup>3</sup> ) standard lip	6.2-cu. yd. (4.7 m <sup>3</sup> ) short lip	5.7-cu. yd. (4.4 m <sup>3</sup> ) standard lip
<b>A</b> Height to top of cab and canopy.....	11 ft. 5 in. (3467 mm)	11 ft. 5 in. (3467 mm)	11 ft. 5 in. (3467 mm)	11 ft. 5 in. (3467 mm)	11 ft. 5 in. (3467 mm)	11 ft. 5 in. (3467 mm)
<b>B</b> Height to top of exhaust.....	11 ft. 3 in. (3417 mm)	11 ft. 3 in. (3417 mm)	11 ft. 3 in. (3417 mm)	11 ft. 3 in. (3417 mm)	11 ft. 3 in. (3417 mm)	11 ft. 3 in. (3417 mm)
<b>C</b> Ground clearance.....	20.8 in. (528 mm)	20.8 in. (528 mm)	20.8 in. (528 mm)	20.8 in. (528 mm)	20.8 in. (528 mm)	20.8 in. (528 mm)
<b>D</b> Length from centerline to front axle.....	63 in. (1600 mm)	63 in. (1600 mm)	63 in. (1600 mm)	63 in. (1600 mm)	63 in. (1600 mm)	63 in. (1600 mm)
<b>E</b> Wheelbase.....	126 in. (3200 mm)	126 in. (3200 mm)	126 in. (3200 mm)	126 in. (3200 mm)	126 in. (3200 mm)	126 in. (3200 mm)
<b>F</b> Dump height.....	12 ft. 7 in. (3838 mm)	11 ft. 5 in. (3479 mm)	11 ft. 9 in. (3589 mm)	10 ft. 11 in. (3331 mm)	11 ft. 7 in. (3532 mm)	10 ft. 7.5 in. (3237 mm)
<b>G</b> Height to hinge pin, fully raised.....	15 ft. 4 in. (4661 mm)	15 ft. 4 in. (4661 mm)	15 ft. 4 in. (4661 mm)	15 ft. 4 in. (4661 mm)	15 ft. 4 in. (4661 mm)	15 ft. 4 in. (4661 mm)
<b>H</b> 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)
<b>I</b> 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)
<b>J</b> Overall length.....	26 ft. 8 in. (8121 mm)	27 ft. 6 in. (8372 mm)	26 ft. 10 in. (8189 mm)	28 ft. 3 in. (8601 mm)	27 ft. 2 in. (8286 mm)	28 ft. 8 in. (8747 mm)
<b>K</b> Maximum rollback at ground level.....	35 degrees	35 degrees	35 degrees	35 degrees	35 degrees	35 degrees
<b>L</b> Maximum rollback at full height.....	40.8 degrees	40.8 degrees	40.8 degrees	40.8 degrees	40.8 degrees	40.8 degrees
<b>M</b> Maximum dump angle, full height.....	44 degrees	44 degrees	44 degrees	44 degrees	44 degrees	44 degrees
Bucket width.....	128.0 in. (3251 mm)	114.2 in. (2900 mm)	128.0 in. (3251 mm)	114.2 in. (2900 mm)	128.0 in. (3251 mm)	114.2 in. (2900 mm)
Breakout force, SAE J732C.....	37,606 lb. (17 055 kg)	30,270 lb. (13 728 kg)	34,665 lb. (15 721 kg)	25,258 lb. (11 455 kg)	31,836 lb. (14 438 kg)	22,760 lb. (10 322 kg)
Tipping load, straight.....	32,857 lb. (14 901 kg)	31,434 lb. (14 256 kg)	31,950 lb. (14 490 kg)	30,420 lb. (13 796 kg)	31,988 lb. (14 507 kg)	29,307 lb. (13 291 kg)
Tipping load, 40-degree full turn, SAE.....	27,728 lb. (12 575 kg)	26,553 lb. (12 042 kg)	26,892 lb. (12 196 kg)	25,607 lb. (11 613 kg)	26,888 lb. (12 194 kg)	24,610 lb. (11 161 kg)
Reach, 45-degree dump, 7-ft. (2.13 m) 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)
Loader clearance circle, bucket in carry position.....	44 ft. 2 in. (13 470 mm)	43 ft. 8 in. (13 321 mm)	44 ft. 4 in. (13 518 mm)	44 ft. 3 in. (13 479 mm)	44 ft. 7 in. (13 589 mm)	44 ft. 7 in. (13 582 mm)
Operating weight.....	50,627 lb. (22 960 kg)	50,223 lb. (22 777 kg)	50,391 lb. (22 853 kg)	50,874 lb. (23 072 kg)	51,522 lb. (23 366 kg)	51,304 lb. (23 267 kg)

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.

## 624H / 644H Waste Handlers

**Key:** ● Standard equipment ▲ Optional or special equipment

\*See your John Deere dealer for further information.

### 624H 644H Engine

- ● Antifreeze, -34°F (-37°C)
- ● Coolant recovery tank
- ● Engine oil cooler
- ● Environmentally friendly engine oil drain
- ● Fan safety guard
- ● Muffler, under hood with large exhaust stack
- ▲ ● Chrome exhaust stack
- ▲ ● Quick-release fuel filter and water separator
- ▲ ▲ Engine air heater (for cold starts)
- ▲ ▲ Ether start aid (for cold starts)

### Power Train

- ● TC/PS transmission, computer-controlled electronic soft shift, automatic shift and quick-shift features included
- ● Conventional-type differentials, front and rear
- ▲ ▲ Front and rear axles with hydraulic locking differentials
- ▲ ▲ Front and rear axles with limited-slip differentials
- ▲ ▲ Front axle with hydraulic locking differential
- ▲ ▲ Front axle disconnect

### Hydraulic System

- ● Automatic boom height kickout control
- ▲ ▲ Automatic boom return-to-carry control
- ● Automatic bucket return-to-dig control
- ● Hydraulic lever lockout
- ● Hydraulic system oil cooler (for continuous running attachments and extreme temperatures)
- ● Reservoir sight gauge
- ● Spin-on hydraulic filters, vertical mounting
- ● Two-function hydraulic valve with joystick control
- ▲ ▲ Two-function hydraulic valve with two levers and adjustable wristrest
- ▲ ▲ Three-function hydraulic valve with joystick control and auxiliary lever for third function
- ▲ ▲ Three-function hydraulic valve with two levers and adjustable wristrest and auxiliary lever for third function
- ▲ ▲ Four-function hydraulic valve with dual joystick controls
- ▲ ▲ Two- to three-function valve hydraulic conversion kit
- ▲ ▲ Three- to four-function valve hydraulic conversion kit
- ▲ ▲ Ride control, automatic type

### Electrical

- ● 24-volt electrical system
- ● Alternator, high capacity, 80 amps and 24 volts
- ● Alternator trash covers
- ● Batteries, standard (2), 12 volt with 750 CCA, 150-min. rated reserve
- ▲ ▲ Batteries, high capacity (2), 12 volt with 950 CCA, 200-min. rated reserve
- ● Deluxe monitor and alarm system, multifunction computerized electronic: Audible and visual warnings include: Message center display (12-character message board) / Analog instruments (engine coolant temperature, transmission oil temperature, fuel level, speedometer, engine oil pressure, hydraulic oil temperature) / Digital instruments (engine

### 624H 644H Electrical (cont.)

- rpm, selectable battery voltage or odometer, transmission gear indicator, hourmeter) / Operator warning lights (coolant level, engine oil pressure, engine air filter, battery voltage, transmission filter restriction, brake pressure, hydraulic oil temperature, hydraulic oil filter, fasten seat belt, park brake actuated) / Indicator lights (turn signals, warning flashers, work lights) / Built-in diagnostics (fault code retrieval, message center) / Push-button selection (three clutch cut-off adjustments, two automatic transmission sequences, two quick-shift button sequences)
- ● Horn, with push button in center of steering wheel (conforms to SAE J994, J1446)
- ● Lights (conform to SAE J99): Driving with guards / Turn signals and flashers / Stop and taillights
- ● Work lights, front (2) and rear (2)
- ● Radio-ready cab: Fused 24-volt electrical lead, and fused lead for optional Deere 5-amp and 10-amp voltage converters
- ▲ ▲ Radio-ready cab: 24- to 12-volt radio converter, 5 amp with receptacle / 24- to 12-volt radio converter, 10 amp with receptacle / 24-volt AM/FM stereo radio with clock
- ▲ ▲ Cab wired for rotating beacon
- ● Reverse warning alarm, self-adjusting (conforms to SAE J994, J1446)

### Operator's Station

- ● Cab (conforms to SAE J1040 APR88): ROPS/FOPS / Heater/Defroster / Multiplane isolation mounted for noise/vibration reduction / Front and rear windshield washers and intermittent wipers / Tinted safety glass
- ● Cup holder, personal cooler holder
- ● Handholds and steps, ergonomically located and slip resistant (conform to SAE J185)
- ● Rearview mirrors, outside (2) and inside (2) (conform to SAE J985)
- ● Rubber floormat
- ● Seat belt, 3 in. (76 mm), with retracto
- ● Seat, deluxe cloth covered with deep foam, high back, mechanical suspension, adjustable for weight-height, fore-aft position, backrest tilt, and armrest angle
- ▲ ▲ Seat, air suspension, deluxe cloth covered
- ▲ ▲ Seat backrest extension
- ● Steering wheel, textured with spinner knob
- ● Storage compartment for operator's manual and other items
- ● Tilt steering column
- ● Air conditioning
- ▲ ▲ Sun visor for cab

### Complete Waste Handler Package

- ● Airscreen group: Low-profile perforated hood-mounted air-inlet screen / Engine side shield inlet screens, perforated/corrugated / Engine air-intake precleaner / Engine rubber baffle
- ● Articulation guards
- ● Axle seal guards
- ● Boom cylinder and hydraulic lines guard
- ● Boom lift cylinder head end debris deflector

### 624H 644H Complete Waste Handler Package (cont.)

- ● Bucket cylinder hydraulic lines, zerk, and sensor guard
- ● Cab floor-mounted lockable master electrical disconnect switch
- ● Drive-shaft guard
- ● Extreme-duty cab entry steps
- ● Extreme-duty front loader frame access cover with handles
- ● Extreme-duty hydraulic bottom guards (fuel tank, loader frame, engine frame)
- ● Extreme-duty transmission side guards
- ● Full-frontal cab window guard (high-visibility version not designed to SAE J1084)
- ● Grease-fitting guards
- ● Heavy-duty rear grille
- ● High-intensity halogen driving lights with heavy-duty guard
- ● High-intensity halogen front cab work lights with heavy-duty guard
- ● Loader frame lower guard
- ● Loader frame trash cover
- ● Rear-access platforms with step and handhold
- ● Rear roof-mounted air-conditioner condenser with manually activated reversible electric fans (requires air conditioning)
- ● Strobe light wired to the master electrical disconnect switch
- ● Swing-out, manually activated, hydraulic reversible engine cooling fan

### Loader Linkage

- ▲ ▲ High-lift boom
- ● Loader boom service locking bar (conforms to SAE J38)
- ● Z-bar loader linkage provides "high bucket breakout"

### Buckets and Attachments

- ▲ ▲ Full line of construction utility forks, pallet forks, extendible boom with hook, and other attachments for couplers\*
- ▲ ▲ Hydraulic control system for quick-coupler locking pins, includes all controls in the cab, lines, and valves
- ▲ ▲ Loadrite™ weighing system\*
- ▲ ▲ Quick-coupler which accepts JRB attachments\*

### Tires

- 20.5-25 solid rubber
- 23.5-25 solid rubber
- ▲ 20.5 R 25
- ▲ 23.5 R 25
- ▲ ▲ L-5 radial or bias ply tires
- ▲ ▲ Less wheels and tires
- ▲ ▲ Multi-piece rims

### Other

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



JOHN DEERE

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at standard conditions per SAE J1349 and DIN 70 020, using No. 2-D fuel at 35 API gravity. No derating is required up to 10,000-ft. (3050 m) altitude. Gross power is without cooling fan.

Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on units with all standard equipment, waste handler complete protection package, high-lift booms, ROPS cabs, full fuel tanks, and 175-lb. (79 kg) operators; 624J unit with 20.5-25 solid rubber tires; and 644J unit with 23.5-25 solid rubber tires.

