



JD

CONSTRUCTION EQUIPMENT DIVISION

HIGH LIFT LOADERS




MODEL NO.

444H 544H 624H



HIGH LIFT





SLAM DUNK.

Deere High Lifts retain the same great features of our standard loaders, including excellent Ride Control for smooth operation, a convenient Quick-Shift button on the loader boom lever, a powerful Deere engine, excellent maneuverability and operator comfort, and more.

Need an extra boost to get over the rim? Get it from Deere's High Lift lineup. These versatile loaders combine the excellent performance of our standard loaders with an optional factory-installed extended boom for efficiently moving materials to higher dump heights. Now you can smoothly go up and over high-side trucks, trailers, wagons, and bins, as well as stockpile even higher for more efficient use of space. Of course, a high-lift boom is only as good as the loader behind it, and that makes the tried-and-true Deere H-Series an even more reliable choice.

MODEL NO.

HIGH LIFT LOADERS



Take grit or caustic acids in stride with sealed, inboard-mounted, hydraulic wet-disk brakes.



Since high lifts often handle lighter materials that can be drawn into the radiator fan, this new optional cooling system (for the 444H and 544H only) may be recommended to keep your radiator clean and your machine running cool. Notice the swing-out, quick-clean screen.

◀ A Deere High Lift towers over a standard Deere Loader extending reach by more than a foot.



From order to delivery, your dealer can get you a High Lift in the same time as a standard four-wheel-drive loader from Deere's U.S., 9001-certified factory. Ask your dealer about the exclusive CounterParts® Promise and 12-month Secure® warranty.

444H 544H 624H

HIGH LIFT LOADERS

SPECIFICATIONS



Engine

	444H
Type	John Deere PowerTech® 4045T with altitude-compensating turbocharger; 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 @ 2,200 rpm	110 SAE net hp (82 kW), 115 SAE gross hp (86 kW)
Cylinders	4
Displacement	276 cu. in. (4.5 L)
Maximum net torque	325 lb.-ft. (441 Nm) @ 1,400 rpm
Lubrication	pressure system with full-flow spin-on filter and cooler
Fuel consumption, typical	1.8 to 3.8 gal./hr. (7.1 to 14.4 L/h)
Cooling fan	blower type
Electrical system	24 volt with 55-amp alternator
Batteries (two 12 volt)	625 CCA; reserve capacity: 160 min.
Air cleaner	dual safety element dry type; restriction indicator for service

544H

Type	John Deere PowerTech 6068T with altitude-compensating turbocharger; 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 @ 2,200 rpm	130 SAE net hp (97 kW), 138 SAE gross hp (103 kW)
Cylinders	6
Displacement	414 cu. in. (6.8 L)
Maximum net torque	440 lb.-ft. (600 Nm) @ 1,300 rpm
Lubrication	pressure system with full-flow spin-on filter and cooler
Fuel consumption, typical	2.4 to 4.7 gal./hr. (9.9 to 17.8 L/h)
Cooling fan	blower type
Electrical system	24 volt with 55-amp alternator
Batteries (two 12 volt)	625 CCA; reserve capacity: 160 min.
Air cleaner	dual safety element dry type; restriction indicator for service

624H

Type	John Deere PowerTech 6068H with altitude-compensating turbocharger 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 @ 2,200 rpm	160 SAE net hp (119 kW), 172 SAE gross hp (128 kW)
Cylinders	6
Displacement	414 cu. in. (6.8 L)
Maximum net torque	575 lb.-ft. (780 Nm) @ 1,400 rpm
Lubrication	pressure system with full-flow spin-on filter and cooler
Fuel consumption, typical	2.9 to 5.0 gal./hr. (10.9 to 18.9 L/h)
Cooling fan	blower type; hydraulically driven
Electrical system	24 volt with 55-amp alternator
Batteries (two 12 volt)	625 CCA; reserve capacity: 160 min. - standard / 800 CCA; reserve capacity: 200 min. - optional
Air cleaner	dual safety element dry type; restriction indicator for service

Transmission

Type	single stage, single phase torque converter, countershaft-type power shift with computer control
Controls	smooth shifts under any power condition provided by computer-controlled electronic shift with individual electronic control over each clutch pack, heel-grip shift lever, quick-shift button on hydraulic lever; automatic shift feature is selectable to shift between gears 1-4 or 2-4
Travel speeds*	Forward Reverse
Gear 1	4.6 mph (7.5 km/h) 4.9 mph (7.9 km/h)
Gear 2	8.3 mph (13.4 km/h) 8.7 mph (14.1 km/h)
Gear 3	15.5 mph (24.9 km/h) 16.3 mph (26.3 km/h)
Gear 4	24.8 mph (40.0 km/h)
*444H equipped with 17.5-25 tires; 544H and 624H equipped with 20.5-25 tires.	

Type	single stage, single phase torque converter, countershaft-type power shift with computer control
Controls	smooth shifts under any power condition provided by computer-controlled electronic shift with individual electronic control over each clutch pack, heel-grip shift lever, quick-shift button on hydraulic lever; automatic shift feature is selectable to shift between gears 1-4 or 2-4
Travel speeds*	Forward Reverse
Gear 1	4.3 mph (7.0 km/h) 4.6 mph (7.5 km/h)
Gear 2	7.7 mph (12.5 km/h) 8.0 mph (13.0 km/h)
Gear 3	14.3 mph (23.0 km/h) 15.5 mph (25.0 km/h)
Gear 4	25.0 mph (40.0 km/h)

Type	single stage, single phase torque converter; countershaft-type power shift with computer control
Controls	smooth shifts under any power condition provided by computer-controlled electronic shift with individual electronic control over each clutch pack, heel-grip shift lever, quick-shift button on hydraulic lever; automatic shift feature is selectable to shift between gears 1-4 or 2-4
Travel speeds*	Forward Reverse
Gear 1	4.8 mph (7.7 km/h) 5.0 mph (8.1 km/h)
Gear 2	7.5 mph (12.0 km/h) 8.0 mph (12.7 km/h)
Gear 3	14.0 mph (22.6 km/h) 14.9 mph (23.9 km/h)
Gear 4	24.5 mph (39.5 km/h)

Axles/Brakes

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	24 degrees
Maximum rise and fall, single wheel	15.1 in. (385 mm)
Brakes (conform to SAE J1473, ISO3450)	
Service brakes	inboard-mounted hydraulic wet-disk, bathed in cooling oil, long life self-adjusting
Parking brake	automatically spring applied, hydraulically released, wet disc bathed in cooling oil

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	28 degrees with 17.5-25 tires; 24 degrees with 20.5-25 tires
Maximum rise and fall, single wheel	18.6 in. (472 mm) with 17.5-25 tires; 16.0 in. (406 mm) with 20.5-25 tires
Brakes (conform to SAE J1473, ISO3450)	
Service brakes	inboard-mounted hydraulic wet-disk, bathed in cooling oil, long life self-adjusting
Parking brake	automatically spring applied, hydraulically released, wet disc bathed in cooling oil

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	26 degrees
Maximum rise and fall, single wheel	18.2 in. (461 mm)
Brakes (conform to SAE J1473, ISO3450)	
Service brakes	inboard-mounted hydraulic wet-disk, bathed in cooling oil, long life self-adjusting
Parking brake	automatically spring applied, hydraulically released, wet disc bathed in cooling oil

Hydraulic System/Steering

Pump (loader and steering)	variable-displacement, axial piston pump; closed-center, pressure-compensating system
Maximum flow @ 1,800 psi (895 kPa) and 2,200 rpm	36 gpm (136 L/min.)
Pressure	loader and steering relief 3,800 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

Pump (loader and steering)	variable-displacement, axial piston pump; closed-center, pressure-compensating system
Maximum flow @ 1,800 psi (895 kPa) and 2,200 rpm	41 gpm (155 L/min.)
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

Pump (loader and steering)	variable-displacement, axial piston pump; closed-center, pressure-compensating system
Maximum flow @ 1,800 psi (895 kPa) and 2,200 rpm	55 gpm (208 L/min.)
Pressure	loader and steering relief 3,800 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 System/

Steering (continued)

	444H	544H	624H
Hydraulic cycle times			
Rate	5.0 sec.	5.8 sec.	5.8 sec.
Dump	1.7 sec.	1.2 sec.	1.4 sec.
Lower	2.6 sec. (float down) / 2.8 sec. (power down)	2.9 sec. (float down) / 3.3 sec. (power down)	3.0 sec. (float down) / 3.5 sec. (power down)
Total	9.3 sec.	9.9 sec.	10.2 sec.
Maximum lift capacity	with 2.0 cu. yd. (1.5 m ³) bucket with ball-on-edge	with 2.5 cu. yd. (1.9 m ³) bucket with ball-on-edge	with 3.0 cu. yd. (2.3 m ³) bucket with ball-on-edge
Lift at ground level	18,263 lb. (8284 kg)	22,300 lb. (10,115 kg)	26,001 lb. (11,794 kg)
Lift at maximum height	10,767 lb. (4884 kg)	11,880 lb. (5398 kg)	15,906 lb. (7215 kg)
Steering conforms to SAE J1511			
Type	power, fully hydraulic	power, fully hydraulic	power, fully hydraulic
Pressure	3,600 psi (24,850 kPa) relief	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)	80-degree arc (40 degrees each direction)
Turning radius (measured to centerline of outside tire)	15 ft. 5 in. (4703 mm)	16 ft. 3 in. (4959 mm)	17 ft. 0 in. (5187 mm)

Tires

Choice of	Tread Width	Width Over Tires	Change in Vertical Height	Tread Width	Width Over Tires	Change in Vertical Height	Tread Width	Width Over Tires	Change in Vertical Height
15.5-25, 12 PR L2	72.8 in. (1850 mm)	89.5 in. (2275 mm)	- 1.8 in. (- 46 mm)						
17.5-25, 12 PR L2	72.8 in. (1850 mm)	91.7 in. (2330 mm)	0	76.8 in. (1950 mm)	95.7 in. (2430 mm)	- 3.0 in. (- 75 mm)	80.7 in. (2050 mm)	99.6 in. (2530 mm)	- 2.4 in. (- 60 mm)
17.5-25, 12 PR L3	72.8 in. (1850 mm)	91.7 in. (2330 mm)	+ 0.6 in. (+ 15 mm)	76.8 in. (1950 mm)	95.7 in. (2430 mm)	- 2.3 in. (- 57 mm)	80.7 in. (2050 mm)	99.6 in. (2530 mm)	- 2.4 in. (- 60 mm)
17.5 R 25, GP-28 Goodyear Radial (6.2 type)	72.8 in. (1850 mm)	91.6 in. (2327 mm)	+ 0.5 in. (+ 13 mm)	76.8 in. (1950 mm)	95.6 in. (2427 mm)	- 2.1 in. (- 53 mm)	80.7 in. (2050 mm)	99.4 in. (2525 mm)	- 2.1 in. (- 53 mm)
17.5 R 25, XTLA Michelin Radial (6.2 type)	72.8 in. (1850 mm)	91.6 in. (2327 mm)	+ 0.1 in. (+ 3 mm)	76.8 in. (1950 mm)	95.6 in. (2427 mm)	- 1.3 in. (- 32 mm)	80.7 in. (2050 mm)	99.4 in. (2525 mm)	- 3.0 in. (- 77 mm)
17.5 R 25, XHAT Michelin Radial (6.3 type)	72.8 in. (1850 mm)	91.6 in. (2327 mm)	+ 0.2 in. (+ 5 mm)	76.8 in. (1950 mm)	95.6 in. (2427 mm)	- 1.2 in. (- 30 mm)	80.7 in. (2050 mm)	99.4 in. (2525 mm)	- 2.7 in. (- 68 mm)
20.5-25, 12 PR L2				74.8 in. (1900 mm)	96.9 in. (2462 mm)	0	80.7 in. (2050 mm)	103.3 in. (2625 mm)	0
20.5-25, 12 PR L3				74.8 in. (1900 mm)	96.9 in. (2462 mm)	+ 0.5 in. (+ 6 mm)	80.7 in. (2050 mm)	103.3 in. (2625 mm)	0
20.5 R 25, GP-28 Goodyear Radial (6.2 type)				74.8 in. (1900 mm)	96.8 in. (2460 mm)	+ 0.5 in. (+ 7 mm)	80.7 in. (2050 mm)	103.0 in. (2615 mm)	0
20.5 R 25, XTLA Michelin Radial (6.2 type)				74.8 in. (1900 mm)	96.8 in. (2460 mm)	+ 1.8 in. (+ 44 mm)	80.7 in. (2050 mm)	103.3 in. (2625 mm)	- 0.5 in. (- 14 mm)
20.5 R 25, XHAT Michelin Radial (6.3 type)				74.8 in. (1900 mm)	96.8 in. (2460 mm)	+ 1.7 in. (+ 42 mm)	80.7 in. (2050 mm)	103.7 in. (2635 mm)	- 0.2 in. (- 5 mm)
23.1-25, 10 PR LS-2*				84.1 in. (2136 mm)	108.1 in. (2743 mm)	+ 2.2 in. (+ 55 mm)			

*Requires 6-degree rear axle steps, close-mounted steps, and no fenders.

Capacities (U.S.)

Fuel tank (with ground level fueling)	49 gal. (186 L)	65 gal. (246 L)	70 gal. (265 L)
Cooling system	20 qt. (19 L)	24 qt. (23 L)	23 qt. (22 L)
Engine lubrication, including full-flow spin-on filter	13 qt. (12.5 L)	19 qt. (18 L)	21 qt. (20 L)
Power shift transmission, including vertical cartridge filter	13 qt. (12.5 L)	21 qt. (20 L)	29 qt. (27 L)
Differential (each axle)			
Front	16 qt. (15 L)	20 qt. (19 L)	30 qt. (28 L)
Rear	16 qt. (15 L)	20 qt. (19 L)	19 qt. (20 L)
Loader hydraulic reservoir and filters	28 gal. (106 L)	28 gal. (106 L)	31 gal. (117 L)
Parking brake	10 cc. (0.300 L)	10 cc. (0.300 L)	10 cc. (0.300 L)

444H Pin-On Type Bucket Information

Bucket Type/Size	Stockpiling and General Purpose with Bolt-on Edge	Stockpiling and General Purpose with Bolt-on Edge
Capacity, heaped SAE	2.5 cu. yd. (1.9 m ³)	2.0 cu. yd. (1.5 m ³)
Capacity, struck SAE	2.1 cu. yd. (1.6 m ³)	1.6 cu. yd. (1.2 m ³)
Bucket width	95.3 in. (2420 mm)	95.3 in. (2420 mm)
Breakout force, SAE J732C	15,600 lb. (7076 kg)	18,434 lb. (8361 kg)
Tipping load, straight	13,565 lb. (6162 kg)	13,887 lb. (6299 kg)
Tipping load, 40-degree full turn, SAE	11,485 lb. (5214 kg)	11,777 lb. (5342 kg)
Reach, 45-degree dump, 7-ft. (2.13 m) clearance	70.1 in. (1780 mm)	67.8 in. (1723 mm)
▲▲ Reach, 45-degree dump, full height	43.3 in. (1100 mm)	39.0 in. (990 mm)
▲ Dump clearance, 45 degree, full height	117.9 in. (2995 mm)	122.2 in. (3105 mm)
▲▲▲ Overall length, bucket on ground	23 ft. 2 in. (7069 mm)	22 ft. 8 in. (6904 mm)
Loader clearance circle, bucket in carry position	18 ft. 7 in. (5653 mm)	18 ft. 4 in. (5599 mm)
Operating weight	21,689 lb. (9836 kg)	21,508 lb. (9756 kg)

Loader operating information is based on machine with all standard equipment; 17.5-25, 12 PR L2 tires; 840 lb. (382 kg) optional counterweight; 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.

444H Adjustments To Operating Weights with Pin-On Buckets

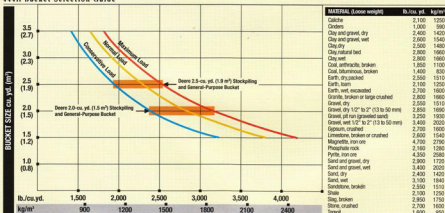
Adjustments to operating weights and tipping loads for 2.5 cu. yd. (1.9 m³) material-handling bucket with built-on cutting edge

Add (+) or deduct (-) lb. (kg) as indicated for loaders with

Operating Weight	Tipping Load, Straight	Tipping Load, 40-Degree Full Turn, SAE
15.5-25, 12 PR L2 tires	- 214 lb. (- 97 kg)	- 185 lb. (- 84 kg)
17.5-25, 12 PR L3 tires	+ 88 lb. (+ 40 kg)	+ 77 lb. (+ 35 kg)
17.5-25, GP-29 L2 Goodyear Radial	+ 146 lb. (+ 66 kg)	+ 126 lb. (+ 57 kg)
17.5-25, KTLA L2 Michelin Radial	+ 53 lb. (+ 24 kg)	+ 46 lb. (+ 21 kg)
17.5-25, KWAT L3 Michelin Radial	+ 154 lb. (+ 70 kg)	+ 132 lb. (+ 60 kg)
CaO ₂ in 17.5-25 rear tires*	+ 1,179 lb. (+ 535 kg)	+ 1,351 lb. (+ 613 kg)
Optional counterweight removed*	- 840 lb. (- 382 kg)	- 1,508 lb. (- 684 kg)

*Optional counterweight not to be used when CaO₂ or other ballast is used in rear tires.

444H Bucket Selection Guide*



*This guide, representing bucket sizes not necessarily manufactured by Deere, will help you in selecting proper bucket size for material density, loader configuration, and operating conditions. Optimum bucket size is determined after adding or subtracting all tipping load changes due to optional equipment. The "counterweight load" line on this guide is recommended when operating in conditions such as soft ground and uneven surfaces. The "maximum load" condition on this guide is sometimes utilized when operating on firm ground and level surfaces.

544H Pin-On Type Bucket Information

Bucket Type/Size	Stockpiling and General Purpose with Bolt-On Edge	Excavating with Bolt-On Edge
	Capacity, heaped SAE	3.0 cu. yd. (2.3 m ³)
Capacity, struck SAE	2.6 cu. yd. (2.0 m ³)	2.1 cu. yd. (1.6 m ³)
Bucket width	100.4 in. (2550 mm)	100.4 in. (2550 mm)
Breakout force, SAE J732C	20,720 lb. (9399 kg)	23,632 lb. (10 719 kg)
Tipping load, straight	17,119 lb. (7765 kg)	17,600 lb. (7983 kg)
Tipping load, 40-degree full turn, SAE	14,431 lb. (6546 kg)	14,859 lb. (6740 kg)
Reach, 45-degree dump, 7-ft. (2.13 m) clearance	70.7 in. (1795 mm)	68.6 in. (1742 mm)
▲▲ Reach, 45-degree dump, full height	39.8 in. (1010 mm)	36.0 in. (914 mm)
▲ Dump clearance, 45 degree, full height	124.0 in. (3150 mm)	127.8 in. (3246 mm)
▲▲▲ Overall length, bucket on ground	24 ft. 8 in. (7522 mm)	24 ft. 2 in. (7378 mm)
Loader clearance circle, bucket in carry position	19 ft. 5 in. (5923 mm)	19 ft. 3 in. (5877 mm)
Operating weight	26,026 lb. (11 805 kg)	25,867 lb. (11 733 kg)

Loader operating information is based on machine with all standard equipment; 20.5-25, 12 PR L2 tires; 1,122-lb. (509 kg) optional counterweight; 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.

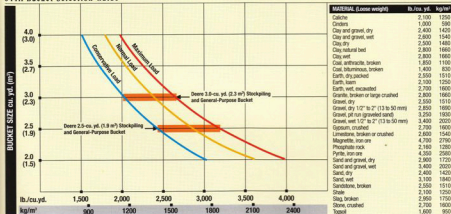
544H Adjustments To Operating Weights with Pin-On Buckets

Adjustments to operating weights and tipping loads for 3.0 cu. yd. (2.3 m³) material-handling bucket with bolt-on cutting edge

Act (+) or deduct (-) lb. (kg) as indicated	Operating Weight	Tipping Load Straight	Tipping Load, 40-Degree Full Turn, SAE
for loaders with			
17.5-25, 12 PR L2 tires	- 661 lb. (- 300 kg)	- 386 lb. (- 175 kg)	- 333 lb. (- 151 kg)
17.5-25, 12 PR L3 tires	- 505 lb. (- 229 kg)	- 293 lb. (- 133 kg)	- 254 lb. (- 115 kg)
17.5-25, GP-26 L2 Goodyear Radial	- 403 lb. (- 183 kg)	- 236 lb. (- 107 kg)	- 203 lb. (- 92 kg)
17.5-25, XTLA L2 Michelin Radial	- 567 lb. (- 257 kg)	- 321 lb. (- 150 kg)	- 287 lb. (- 130 kg)
17.5-25, WHAT L3 Michelin Radial	- 392 lb. (- 178 kg)	- 229 lb. (- 104 kg)	- 198 lb. (- 90 kg)
20.5-25, 12 PR L3 tires	+ 384 lb. (+ 174 kg)	+ 223 lb. (+ 101 kg)	+ 194 lb. (+ 88 kg)
20.5-25, GP-26 L2 Goodyear Radial	+ 412 lb. (+ 187 kg)	+ 240 lb. (+ 109 kg)	+ 207 lb. (+ 94 kg)
20.5-25, XTLA L2 Michelin Radial	+ 152 lb. (+ 69 kg)	+ 89 lb. (+ 40 kg)	+ 77 lb. (+ 35 kg)
20.5-25, WHAT L3 Michelin Radial	+ 472 lb. (+ 214 kg)	+ 276 lb. (+ 125 kg)	+ 238 lb. (+ 108 kg)
555/70 R 25, XLD L3	+ 227 lb. (+ 103 kg)	+ 132 lb. (+ 60 kg)	+ 115 lb. (+ 52 kg)
CO ₂ in 20.5-25 rear tires*	+ 1,821 lb. (+ 826 kg)	+ 2,121 lb. (+ 962 kg)	+ 1,832 lb. (+ 831 kg)
Optional counterweight removed*	- 1,122 lb. (- 509 kg)	- 2,103 lb. (- 954 kg)	- 1,728 lb. (- 784 kg)

*Optional counterweight not to be used when CO₂ or other ballast is used in rear tires.

544H Bucket Selection Guide*



*This guide, representing bucket sizes not necessarily manufactured by Deere, will help you in selecting proper bucket size for material density, loader configuration, and operating conditions. Optimum bucket size is determined after adding or subtracting all tipping load changes due to optional equipment. The "conservative load" line on this guide is recommended when operating in conditions such as soft ground and uneven surfaces. The "maximum load" condition on this guide is sometimes utilized when operating on firm ground and level surfaces.

624H Pin-On Type Bucket Information

Bucket Type/Size	Stacking and General Purpose with Bolt on Edge	Stacking and General Purpose with Bolt-on Edge
Capacity, heaped SAE	3.5 cu. yd. (2.7 m ³)	3.0 cu. yd. (2.3 m ³)
Capacity, struck SAE	3.0 cu. yd. (2.3 m ³)	2.5 cu. yd. (1.9 m ³)
Bucket width	105.9 in. (2690 mm)	105.9 in. (2690 mm)
Breakout force, SAE J732C	25,150 lb. (11 408 kg)	27,883 lb. (12 647 kg)
Tipping load, straight	19,568 lb. (8876 kg)	19,947 lb. (9048 kg)
Tipping load, 40-degree full turn, SAE	16,460 lb. (7486 kg)	16,801 lb. (7621 kg)
Reach, 45-degree dump, 7-ft. (2.13 m) clearance	76.6 in. (1945 mm)	74.7 in. (1898 mm)
▲▲ Reach, 45-degree dump, full height	44.3 in. (1125 mm)	41.1 in. (1043 mm)
▲ Dump clearance, 45 degree, full height	126.9 in. (3224 mm)	130.2 in. (3306 mm)
▲▲▲ Overall length, bucket on ground	26 ft. 4 in. (8022 mm)	25 ft. 11 in. (7900 mm)
Loader clearance circle, bucket in carry position	20 ft. 5 in. (6234 mm)	20 ft. 4 in. (6194 mm)
Operating weight	30,089 lb. (13 648 kg)	29,032 lb. (13 577 kg)

Loader operating information is based on machine with all standard equipment: 20.5-25, 12 PR L2 tires; 1,045-lb. (474 kg) optional counterweight; 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.

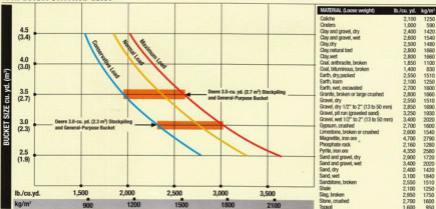
624H Adjustments To Operating Weights with Pin-On Buckets

Adjustments to operating weights and tipping loads for 3.5 cu. yd. (2.7 m³) material-handling bucket with bolt-on cutting edge

Add (+) or deduct (-) lb. (kg) as indicated	Operating Weight	Tipping Load, Straight	Tipping Load, 40-Degree Full Turn, SAE
for loaders with			
17.5-25, 12 PR L2 tires	-547 lb. (-248 kg)	-320 lb. (-145 kg)	-270 lb. (-125 kg)
17.5-25, 12 PR L3 tires	-392 lb. (-178 kg)	-227 lb. (-103 kg)	-196 lb. (-89 kg)
17.5-25, GP-2B L2 Goodyear Radial	-291 lb. (-132 kg)	-170 lb. (-77 kg)	-148 lb. (-67 kg)
17.5-25, XTLA L2 Michelin Radial	-454 lb. (-206 kg)	-265 lb. (-120 kg)	-225 lb. (-104 kg)
17.5-25, XHAF L2 Michelin Radial	-280 lb. (-127 kg)	-163 lb. (-74 kg)	-141 lb. (-64 kg)
20.5-25, 12 PR L3 tires	+284 lb. (+129 kg)	+225 lb. (+102 kg)	+194 lb. (+88 kg)
20.5-25, GP-2B L2 Goodyear Radial	+412 lb. (+187 kg)	+240 lb. (+109 kg)	+207 lb. (+94 kg)
20.5-25, XTLA L2 Michelin Radial	+152 lb. (+69 kg)	+88 lb. (+40 kg)	+77 lb. (+35 kg)
20.5-25, XHAF L2 Michelin Radial	+472 lb. (+214 kg)	+276 lb. (+125 kg)	+238 lb. (+108 kg)
625/70 R 25, VLD	+944 lb. (+428 kg)	+551 lb. (+250 kg)	+476 lb. (+218 kg)
CaCl ₂ or 20.5-25 rear tires*	+1,821 lb. (+826 kg)	+1,211 lb. (+552 kg)	+1,032 lb. (+469 kg)
Optional counterweight removed†	-1,045 lb. (-474 kg)	-1,591 lb. (-723 kg)	-1,631 lb. (-742 kg)

*Optional counterweight not to be used when CaCl₂ or other ballast is used in rear tires.

624H Bucket Selection Guide*



*This guide, representing bucket sizes not necessarily manufactured by Deere, will help you in selecting proper bucket size for material density, loader configuration, and operating conditions. Optimum bucket size is determined after adding or subtracting all tipping load changes due to optional equipment. The "conservative load" line on this guide is recommended when operating in conditions such as soft ground and uneven surfaces. The "maximum load" condition on this guide is sometimes utilized when operating on firm ground and level surfaces.

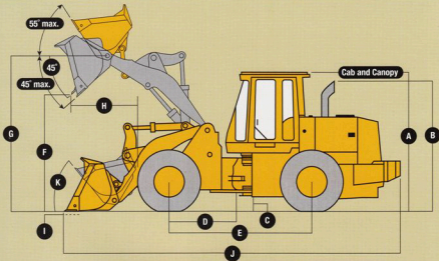
Dimensions with

Pin-on Type Bucket

	444H
A	Height to top of cab and canopy.....10 ft. 3 in. (3125 mm)
B	Height to top of exhaust.....10 ft. 3 in. (3120 mm)
C	Ground clearance.....14.0 in. (355 mm)
D	Length from centerline to front axle.....54.10 in. (1375 mm)
E	Wheelbase.....108.3 in. (2750 mm)
F	Dump height.....▲ (see page 5)
G	Height to hinge pin, fully raised.....13 ft. 8 in. (3963 mm)
H	Dump reach.....▲▲ (see page 5)
I	Maximum digging depth.....4.5 in. (115 mm)
J	Overall length.....▲▲▲ (see page 5)
K	Maximum rollback at ground level.....40 degrees

	544H
	10 ft. 7 in. (3230 mm)
	10 ft. 6.6 in. (3215 mm)
	16.7 in. (424 mm)
	57.10 in. (1450 mm)
	114.2 in. (2900 mm)
	▲ (see page 6)
	13 ft. 9 in. (4181 mm)
	▲▲ (see page 6)
	5.4 in. (138 mm)
	▲▲▲ (see page 6)
	40 degrees

	624H
	10 ft. 10 in. (3300 mm)
	10 ft. 10 in. (3305 mm)
	16.0 in. (406 mm)
	58.65 in. (1515 mm)
	119.3 in. (3030 mm)
	▲ (see page 7)
	14 ft. 2 in. (4327 mm)
	▲▲ (see page 7)
	7.8 in. (193 mm)
	▲▲▲ (see page 7)
	40 degrees



Additional Equipment

Key: ● Standard equipment ▲ Optional or special equipment

444 544 624 Engine

- ● Antidress, -34°F (-37°C)
- ● Coolant recovery tank
- ● Fan safety guard
- ● Muffler, under hood with large exhaust stack
- ▲ ▲ Chrome exhaust stack
- ● Environmentally friendly engine oil drain
- ● Engine oil cooler
- ● Quick-release fuel filter and water separator
- ▲ ▲ Ether start aid (for cold starts)
- ▲ ▲ Engine air heater (for cold starts)
- ▲ ▲ Engine coolant heater, 1,000 watts, 110 volts
- ▲ ▲ Heavy-duty trash-resistant cooling package
- ▲ ▲ Desert and high-altitude cooling package
- ▲ ▲ Special application trash screens, axle seal guards, etc.*

Power Train

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

Hydraulic System

- ● Automatic bucket return-to-dig control
- ● Automatic boom height kickout control
- ▲ ▲ Automatic boom return-to-carry control
- ● Reservoir sight gauge
- ● Spin-on hydraulic filters, vertical mounting
- ● Hydraulic lever lockout
- ▲ ▲ 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

- ▲ ▲ Hydraulic conversion kits, two- to three-function valves and three- to four-function valves
- ▲ ▲ Hydraulic system oil cooler (for continuous running attachments and extreme temperatures)
- ▲ ▲ Ride control, automatic type
- ▲ ▲ Hydraulic control system for quick-coupler locking pins

Electrical

- ● 24-volt electrical system
- ● Standard batteries (2), 12 volt with 625 CCA, 160-min. rated reserve
- ▲ ▲ High-capacity batteries (2), 12 volt with 890 CCA, 200-min. rated reserve
- ▲ ▲ Master electrical disconnect switch
- ● Alternator, 50 amps and 24 volts
- ▲ ▲ Alternator, high capacity, 80 amps and 24 volts
- ▲ ▲ Alternator trash covers
- ● Lights (conforms to SAE 99): Driving with guards / Turn signals and flashers / Stop and tailights
- ▲ ▲ Work lights, front (2) and rear (2)

444 544 624 Electrical (continued)

- ● Horn, with push button in center of steering wheel (conforms to SAE J994, J1440)
- ● Reverse warning alarm (conforms to SAE J994, J1440)
- ● 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 (standard on 624H only) / Hydraulic oil temperature (standard on 624H only)
- ● Digital instruments: Engine 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 / Packer seat belt / Park brake activated
- ● 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
- ● Radio-ready cab, fused 24-volt radio electrical lead, and fused lead for optional Deere 5-amp and 10-amp voltage converters
- ▲ ▲ 24-volt to 12-volt radio converter, 5 amp with receptacle
- ▲ ▲ 24-volt to 12-volt radio converter, 10 amp with receptacle
- ▲ ▲ 24-volt AM/FM stereo radio with clock
- ● Cab wired for rotating beacon

Operator's Station

- ● Canopy (conforms to SAE J1940 AP98): ROPS/FOPS / Multiplane isolation mounted for noise/vibration reduction
- ▲ ▲ Canopy rear window glass, for noise reduction
- ▲ ▲ Cab (conforms to SAE J1940 AP98): ROPS/FOPS / Heater/Defroster / Multiplane isolation mounted for noise/vibration reduction / Front and rear windshield washers and intermittent wipers / Tinted safety glass
- ▲ ▲ Sun visor for cab
- ▲ ▲ Air conditioning (factory or dealer installed)
- ● Seat belt, 2 in. (76 mm), with retractors
- ● 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, external
- ● Cup holder, personal cooler holder
- ● Storage compartment for operator's manual and other items
- ● Rubber floormat
- ● Tilt steering column
- ● Steering wheel, textured with spinner knob
- ● Rearview mirrors, outside (2) and inside (2) (conforms to SAE J985)

See your John Deere dealer for further information.

444 544 624 Operator's Station (continued)

- ● Handholds and steps, ergonomically located and slip resistant (conforms to SAE J185)
- ### Loader Linkage
- ● Loader boom service locking bar (conforms to SAE J305)
 - ● 2-bar loader linkage provides "high bucket breakout"
 - ▲ ▲ 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*
 - ▲ ▲ Quick coupler which accepts J88 attachments*
 - ▲ ▲ Quick coupler which accepts Caterpillar® tool-carrier attachments*
 - ▲ ▲ Hydraulic control system for quick-coupler locking pins, includes all controls in the cab, lines, and valves
 - ▲ ▲ Full line of construction utility forks, pallet forks, extendable boom with hook, and other attachments for couplers*
 - ▲ ▲ Loadrite™ weighing system*
- ### Tires
- ▲ ▲ 15.5-25, 12 PR L2
 - ▲ ▲ 17.5-25, 12 PR L2
 - ▲ ▲ 17.5 R 25, SP-8 Goodyear Radial (6.2 type)
 - ▲ ▲ 17.5 R 25, XMT Michelin Radial (6.2 type)
 - ▲ ▲ 17.5 R 25, XAT Michelin Radial (6.3 type)
 - ▲ ▲ 20.5-25, 12 PR L2
 - ▲ ▲ 20.5-25, 12 PR L3
 - ▲ ▲ 20.5-25, 16 PR L3
 - ▲ ▲ 20.5-25, Goodyear Radial (6.2 type)
 - ▲ ▲ 20.5 R 25, XTLA Michelin Radial (6.2 type)
 - ▲ ▲ 20.5 R 25, XMT Michelin Radial (6.3 type)
 - ▲ ▲ 23.1-26, 16 PR LS-2 Luger
 - ▲ ▲ 26L-26, 16 PR LS-2 Steer-Ply Lagger
 - ● Single-grip rims
 - ● Multi-grip rims
 - ▲ ▲ Less wheels and tires
 - ▲ ▲ 10-degree rear axle stops for extra-large tires
 - ▲ ▲ 12-degree rear axle stops for 20.5-25 tires
 - ▲ ▲ 6-degree rear axle stops for 20.5-25 tires with chains
- ### Other
- ▲ ▲ Fenders, front and rear
 - ● Articulation locking bar (conforms to SAE J276)
 - ● Vandal protection, includes lockable engine enclosures, rear grille, and fuel fill
 - ● Counterweight, built-in
 - ● Counterweight, extra duty:
 - 840 lb. (382 kg)
 - 1,122 lb. (509 kg)
 - 1,845 lb. (837 kg)
 - ● Drawbar, with locking pin
 - ▲ ▲ Transmission slide frame guards
 - ▲ ▲ Bottom guards, front frame and transmission
 - ▲ ▲ L/R and tie-down hooks
 - ▲ ▲ Fire extinguisher
 - ▲ ▲ License plate bracket
 - ▲ ▲ Secondary steering
 - ▲ ▲ Material weighing system*



Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at standard conditions per SAE J1349 and SAE J1702, using No. 2-D fuel at 20.4°F gravity. No de-rating is required up to 5,000 feet (1525 m) altitude for the 444H and up to 10,000 feet (3050 m) altitude for the 544H and 624H. 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, one rear counterweight each, ROPS cabs, full fuel tanks, and 175-hp (79-kw) operator; 444H unit with 17.5-25, 12 PR L2 tires, and 544H and 624H units with 20.5-25, 12 PR L2 tires.

