

L O A D E R S

624H 644H



Compared with their G-Series counterparts, the 624H and 644H provide higher horsepower, greater tipping loads, larger bucket sizes, and faster hill-climbing speeds.

The loaders you need - f



This chart illustrates the higher horsepower of the 624H and 644H compared to previous models. Both loaders use emissions-certified PowerTech[®] engines (see following pages).

- for the loads you need to get moved.



The John Deere H-Series is now an unbroken line of top-quality four-wheel-drive loaders. And with the introduction of the 624H and 644H, there's no longer a gap between the 544H and the 744H. Where one might be too small and the other too big, here are two machines that are "just right."

The all-new H-Series is not a new letter tacked onto some old model numbers. It's a dramatic expansion of the four-wheel-drive loader concept, with important additions in several key areas.

Just compare the 624H and 644H to their previous G-Series counterparts and you'll see what we mean. These loaders provide higher horsepower, greater tipping loads, larger bucket sizes, and faster hill-climbing speeds.

The 624H and 644H are American-made machines, designed and built at ISO 9001-certified John Deere facilities. We designed them by starting with a blank piece of paper (OK, it was actually a blank computer screen). We kept in mind your requests for loaders that use less fuel, cut emissions, and make less noise on the job.

And we put special emphasis on creating an operator station that gives the folks who run the machines extra energy and stamina by keeping them more comfortable all day long.



60-DEGREE FULL-TURN TIPPING LOAD: 624H...29,262 lb. (13,280 kg) 644H...29,812 lb. (13,509 kg)	LIFT CAPACITY, GROUND LEVEL: 624H...29,090 lb. (13,199 kg) 644H...30,255 lb. (13,747 kg)
--	---

Both the 624H and 644H offer increased productivity over the G-Series by providing more breakout force, higher straight and full-turn tipping loads, greater lift capacities, and greater operating weight.



The Z-bar linkages on the 624H and 644H use a formed-and-welded, elliptical boom cross-tube, which gives you better visibility to the bucket.

When the retract-and-carry feature is engaged, putting the boom into float debent allows the boom to drop and stop about a foot off the ground – or whatever distance the operator sets. When reeling the machine, and in load-and-carry operations, the operator can concentrate on driving rather than on bucket positioning.

Load-sensing hydraulics make efficient use of power by matching overall hydraulic flow to each load, maximizing power to the wheels.

JAGZ CUTTING EDGES



The 624H is available with a 3.0 yd³ bucket or the larger 3.8 yd³ bucket. The 644H can be ordered with a 3.0 yd³ bucket or the larger 4.25 yd³ bucket. The range of Deere buckets includes loader buckets that are drilled to accept bolt-on edges, like Deere Jagz™ cutting edges or segmented edges with teeth.

Get behind the wheel of an H-Series Loader and drive your costs down.

It's a win-win proposition. The H-Series can either get more earth moved than competitive machines, or it might move the same amount of earth with greater day-in-day-out reliability. Either way, you'll hit pay dirt.

The torque-converter powershift transmission features electronically-controlled clutch engagement that automatically adjusts the shift to match engine power for the ultimate in smooth operation. The transmission controller uses *smart-shift* technology. It evaluates speed and load conditions, then matches them by adjusting the engagement speed and order of the clutch pack.

The 624H and 644H also feature an exclusive *multiple sensitivity clutch cutoff*. If you're loading a truck on level ground, set the clutch cutoff to 'level.' When you step on the brake, the transmission goes to neutral with very little braking force, so you can roll up to the truck.

But if you're on a slope, set the clutch cutoff to 'small slope' or 'steep slope.' Now, when you step on the brake, more braking force is applied before the transmission shifts to neutral, so you don't roll back down the hill or into a ditch.



Smart-Shift technology delivers smoother shifts with less delay under all load conditions. The automatic-shift feature gives you three choices:

- ▶ Operator-select manual shift;
- ▶ Automatic, 1st through 4th;
- ▶ Automatic, 2nd through 4th.



The operator's left foot governs braking and locks or unlocks the differential with the convenient foot switch (at left in photo above). The brake pedal is also used to activate the clutch cutoff, which has three convenient, computer-controlled adjustments that the operator can select.

John Deere inboard-mounted hydraulic wet-disk brakes self-adjust for wear. Planetary final drives are also mounted inboard. Gear size isn't limited by wheel hub diameter – so larger, more durable components can be used.



Look out through these cab windows and you'll be seeing into the future.

This is the standard by which operator's stations will be evaluated in the next century. The cab is wider, longer, quieter, and roomier than ever – and the windows are larger and cut lower. There's also an all-glass door, as well as a frameless front windshield. You get a clear view to the ground on both sides.

The 624H and 644H also offer improved air conditioning capacity. The system is designed to maintain a 49-degree difference between the outside and inside of the cab. So if it gets up to 110 degrees outside, the inside of the cab can still be cooled down to 61 degrees.



The deluxe, micro-processor-controlled dash monitor offers three modes:

The first, *normal mode*, displays the gear and direction the transmission is running in; whether automatic transmission is selected; and the engine speed (in rpm), hour meter, and voltage.

The second, *accessory*

mode, lets the operator set up the machine to accommodate specific situations. Not everyone in this industry agrees whether automatic should shift from 1st through 4th or from 2nd through 4th. With the accessory mode on the 644H, it's up to the operator.

The third mode is

diagnostic mode, which displays diagnostic codes at a glance.

Passing this data along to your dealer's service people helps them determine the fastest way to get a dented machine up and running – so that the right parts are on the service truck the first time it goes to your jobsite.



Teledyne's LoadLife weighing system is available as an option on the 624H and 644H. The accuracy of plus or minus 1 percent lets you load each truck to its full legal payload.



The spring-actuated, hydraulically released park brake automatically engages when the engine is shut off. It can be manually applied with the engine running by flipping a switch at the dash's lower right.

Six different hydraulic system configurations let you order your machine with the setup that's best for you – from a two-spool valve with single-lever control all the way up to a four-spool valve with four-lever control (shown here). The three- and four-spool valve options also include auxiliary hydraulic lines to the loader's cranes.

The quick shift button gives you two choices: 1. Press once to shift down one gear; then press it again to shift back up. 2. Press once to shift down, then press repeatedly to keep shifting down, all the way to first gear!



This right-hand control panel includes controls for windshield wipers, heater, air conditioner, lights, attachment pins, clutch cutoff, and ride control.

The ride control option acts as a shock absorber to the boom, keeping material in your bucket and smoothing out your ride in roading applications and rough terrain.

The window on the right side swings open and latches into place, like the cab door. The deluxe suspension seat includes adjustments for operator weight, seat cushion angle, and backrest angle. The armrests are also fully adjustable.

PowerTech® engines let you move earth and take care of the planet, too.

John Deere-built PowerTech® diesel engines comply with EPA and CARB emissions standards for off-road vehicles – and also conform to proposed E.U. (European Union) regulations as well.

The 624H is equipped with the PowerTech 6068H engine, while the 644H uses the PowerTech 6081H engine. Both are equipped with a standard auxiliary drive for engine-driven features such as the air compressor and hydraulic pump. They also include a poly-V front drive belt with automatic tensioner, as well as side-by-side engine and transmission coolers. The 7-fins-per-inch radiator includes a large, low-speed fan that helps cut overall noise levels.

The standard torque curve includes a *power bulge* feature that helps adapt engine power to handle load variations. When the engine encounters an additional load, power is automatically boosted to compensate, reducing the need for downshifting. It gives the machine better low-speed driveability in mobile applications, and gets more earth moved with fewer cycles. That's the kind of power that translates into real productivity.

Directed top-liner cooling reduces head gasket and liner temperatures, makes cylinders last longer, and helps reduce emissions and oil consumption.



A gear-driven water pump runs independently of the fan drive, eliminating belts. The pump is side-mounted for easier removal and/or replacement.

Daily service can be performed on the left side by opening the engine door. Spin-on, vertically-mounted combination oil/fuel filters help minimize messy spills.



The cylinder head features two valves per cylinder with left-hand intake and right-hand exhaust manifolds. This "free-breathing" design improves intake and exhaust efficiency, enhancing fuel economy and lowering heat rejection.

The one-piece, high-top-ring aluminum piston reduces smoke and other emissions. It also lowers heat transfer, giving the engine better fuel economy, durability, and power.





Service doors on the left side of the machine let you get in to change fuel, air, and oil filters, and check fluid reservoirs.

No matter which door you open, you'll find easy servicing behind it.

There's no excuse for not performing daily servicing when it's this easy. Four side-shield doors – two on each side – swing open easily and latch into place. The left side shield door lets you get in to change

fuel, air, and oil filters, and check fluid reservoirs.

The right side shield door provides access to the engine. Transmission fluid is checked externally, without requiring you to unbolt or unscrew anything.

The articulation area puts plumbing and steering components within easy reach. Centralized grease banks help ensure that difficult lube points are serviced regularly.

The rear grill swings out, as shown on the facing page, to give you access to the

radiator and fan. The radiator and oil cooler can each be removed without disturbing the other.

If servicing is important, it ought to be easy to do. That's why easy serviceability was designed into every H-Series Loader right from the beginning.

Service doors on the right side provide access to the engine compartment. Notice how the hydraulic fan drive opens up the compartment for access and air flow.



On the left side of the machine, just below the radiator fill, this convenient external sight glass provides an at-a-glance check of the hydraulic fluid level.



While standing on the ground, you can simply remove a couple of bolts, open a door and remove the cab air filter element for cleaning. What could be easier?



It only takes unscrewing one bolt to remove this panel at the right side of the machine for unrestricted access to the steering cylinders.

The H-Series quick-coupler makes it easy to get hooked on versatility.

A busy loader is a profitable loader. And the hydraulically-actuated *quick-coupler* option keeps your H-Series Loader busy by enabling it to perform all kinds of different tasks.

With the quick-coupler, you can hook into and release front-end attachments in just a few moments – usually without tools and without leaving the comfort of your cab. A convenient electronic rocker switch controls the release pins.

Choose from pallet forks, snow blowers, brush rakes, and much more. You'll find that versatility (and the additional income it generates) will be one easy concept to get attached to.



BUCKET



COMPOST TURNER



POST DRIVER



RAIL CAR COUPLER



REAR-MOUNTED RIPPER



WHEEL LOADER MOUNT



EXTENDIBLE AIR BOOM



AUTO FORK



LOADER-MOUNTED BLADE



SHOULDER SPREADER CONVEYOR



LOADER-MOUNTED SWEEPER



GRAPPLE



**DEMOLITION/ROCK
GRAPPLE**

**ROTARY
ASPHALT
CUTTER**



REVERSIBLE FLOW



SNOW BLOWER
(2-STAGE WINDMILL
BLADES)
4-STAGE ROTARY
BLADES
1-STAGE BLADE
DETACH REVERSE
BLADES



**SCOOP
TRANS-
PLANTER**



**QUICK-
COUPLER**



MULTIPURPOSE BUCKET



**LOADER
RAKE**



CLAMP



ONE-WAY FLOW



**CASE
GRAPPLE**



**SIDE-DUMP
BUCKET**

ENGINE	D360	D360				
Type	John Deere PowerTech™ 6068H with ultra-low-compressing turbo-charger and alternative meets North American EPA and CARB 2004-2006 diesel engine emission regulations effective January 1, 1997, also is compliant to proposed U.S. (European Union) regulations, which are not yet effective	John Deere PowerTech™ 6068 H with ultra-low-compressing turbo-charger and alternative meets North American EPA and CARB 2004-2006 diesel engine emission regulations effective January 1, 1997, also is compliant to proposed U.S. (European Union) regulations, which are not yet effective				
Rated power	268 kW net hp (359 HP), 172 kW gross hp (230 HP) @ 2,200 rpm	268 kW net hp (359 HP), 204 kW gross hp (275 HP) @ 2,200 rpm				
Cylinders	6	6				
Displacement	4.14 cu. in. (68 L)	4.14 cu. in. (68 L)				
Maximum net torque	5.75 ft.-lb. (780 Nm) @ 1,400 rpm	7.65 ft.-lb. (1038 Nm) @ 1,300 rpm				
Fuel system	pressure injection with full-flow spin-on filter and cooler	pressure system with full-flow spin-on filter and cooler				
Fuel consumption, typical	7.9 in. gal./hr. (30.9 to 33.9 L/hr)	7.9 to 8.8 gal./hr. (30.9 to 33.9 L/hr)				
Control type	Manure type, hydraulically driven	Manure type, hydraulically driven				
Electrical system	24 volt with 14-amp alternator	24 volt with 15-amp alternator				
Batteries (vol./1-cell)	625 CCA; reserve capacity: 180 min. - standard / 190 CCA; reserve capacity: 200 min. - optional	750 CCA; reserve capacity: 190 min. - standard / 198 CCA; reserve capacity: 200 min. - optional				
Air cleaner	dry safety element dry type, restriction indicator for service	dry safety element dry type, restriction indicator for service				
TRANSMISSION						
Type	single stage, single phase torque converter, constant-halt-type power shift with computer control	single stage, single phase torque converter, constant-halt-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, one low-effort twin-grip shift lever, quick-shift feature via hydraulic valve, automatic shift feature is selectable to shift between gears 1-4 or 2-4	smooth shifts under any power condition provided by computer-controlled electronic shift with individual electronic control over each clutch pack, one low-effort twin-grip shift lever, quick-shift feature via hydraulic valve, automatic shift feature is selectable to shift between gears 1-4 or 2-4				
Rated speeds*	Forward Reverse	Forward Reverse				
Gear 1	4.8 mph (7.7 km/hr)	5.0 mph (8.0 km/hr)				
Gear 2	7.0 mph (11.2 km/hr)	8.0 mph (12.7 km/hr)				
Gear 3	14.4 mph (23.2 km/hr)	14.9 mph (23.9 km/hr)				
Gear 4	24.4 mph (39.3 km/hr)	24.9 mph (39.9 km/hr)				
*6000 equipped with 20.5-25 tires, 4400 equipped with 23.5-25 tires.						
AXLES/BRAKES						
Final drive	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				
Steer axle installation, step to step	24 degrees	24 degrees				
Maximum tie rod ball, single wheel	19.2 in. (485 mm)	19.2 in. (485 mm)				
Radius condition to SAE (SAE), ISO (ISO)						
Service brake	inboard-mounted hydraulic wet disc, bathed in cooling oil, long life self-adjusting	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	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	variable displacement, axial piston pump, closed-center, pressure-compensating system				
Maximum flow	55 gpm (205 L/min) @ 1,000 psi (68.95 kPa) and 2,500 psi	64 gpm (241 L/min) @ 1,000 psi (68.95 kPa) and 2,200 psi				
Pressure	loader and steering relief: 3,000 psi (20 689 kPa)	loader and steering relief: 3,000 psi (20 689 kPa)				
Loader controls	flow from flow valve, single or dual lever control, control lever lockout (optional), optional shock- and bump-function valve with auxiliary lever	flow function valve, single or dual lever control, control lever lockout feature, optional shock- and bump-function valve with auxiliary lever				
Hydraulic cycle times						
Rise	5.8 sec.	4.2 sec.				
Drop	3.4 sec.	1.4 sec.				
Lower	3.3 sec. (float down) / 2.5 sec. (power down)	3.0 sec. (float down) / 2.1 sec. (power down)				
Total	19.2 sec.	10.6 sec.				
Maximum lift capacity	with 8.0 cu. yd. (2.7 m ³) bucket with ball-on-clip	with 11.5 cu. yd. (3.7 m ³) excavating bucket				
Lift at ground level	29,000 lb. (13 193 kg)	35,500 lb. (16 141 kg)				
Lift at maximum height	17,290 lb. (7845 kg)	20,430 lb. (9269 kg)				
Steering (controls to SAE (SAE))						
Type	power, fully hydraulic	power, fully hydraulic				
Pressure	3,000 psi (20 689 kPa) relief	3,000 psi (20 689 kPa) relief				
Articulation angle	80-degree arc (40 degrees each direction)	80-degree arc (40 degrees each direction)				
Turning radius (measured to centerline base of outside tire)	17.0-9 in. (4307 mm)	14.0-9 in. (3569 mm)				
TIRES						
Options of	Front R404R	R404R Over Tires	Change in Vertical Height	Front R404R	W/40 Over Tires	Change in Vertical Height
17.5-25, 12 PR (1)	88.7 in. (2250 mm)	95.0 in. (2410 mm)	- 6.3 in. (-161 mm)	88.7 in. (2250 mm)	95.0 in. (2410 mm)	- 6.3 in. (-161 mm)
17.5-25, 12 PR (2)	88.7 in. (2250 mm)	96.0 in. (2438 mm)	- 7.3 in. (-185 mm)	88.7 in. (2250 mm)	96.0 in. (2438 mm)	- 7.3 in. (-185 mm)
17.5 R 25, CAP-20 GoodYear Radial 8.2 Tires	88.7 in. (2250 mm)	95.4 in. (2421 mm)	- 6.7 in. (-170 mm)	88.7 in. (2250 mm)	95.4 in. (2421 mm)	- 6.7 in. (-170 mm)
17.5 R 25, XTR-1 Michelin Radial 8.2 Tires	88.7 in. (2250 mm)	95.4 in. (2421 mm)	- 6.7 in. (-170 mm)	88.7 in. (2250 mm)	95.4 in. (2421 mm)	- 6.7 in. (-170 mm)
17.5 R 25, XRV1 Interflex Radial 8.2 Tires	88.7 in. (2250 mm)	95.4 in. (2421 mm)	- 6.7 in. (-170 mm)	88.7 in. (2250 mm)	95.4 in. (2421 mm)	- 6.7 in. (-170 mm)
20.5-25, 12 PR (1)	88.7 in. (2250 mm)	100.3 in. (2552 mm)	- 11.6 in. (-293 mm)	88.4 in. (2236 mm)	100.3 in. (2552 mm)	- 11.9 in. (-302 mm)
20.5-25, 12 PR (2)	88.7 in. (2250 mm)	100.3 in. (2552 mm)	- 11.6 in. (-293 mm)	88.4 in. (2236 mm)	100.3 in. (2552 mm)	- 11.9 in. (-302 mm)
20.5 R 25, XTR-1 Michelin Radial 8.2 Tires	88.7 in. (2250 mm)	100.3 in. (2552 mm)	- 11.6 in. (-293 mm)	88.4 in. (2236 mm)	100.3 in. (2552 mm)	- 11.9 in. (-302 mm)
20.5 R 25, XRV1 Interflex Radial 8.2 Tires	88.7 in. (2250 mm)	100.3 in. (2552 mm)	- 11.6 in. (-293 mm)	88.4 in. (2236 mm)	100.3 in. (2552 mm)	- 11.9 in. (-302 mm)
20.5 R 25, CAP-20 GoodYear Radial 8.2 Tires	88.7 in. (2250 mm)	100.7 in. (2562 mm)	- 12.0 in. (-305 mm)	88.4 in. (2236 mm)	100.7 in. (2562 mm)	- 12.3 in. (-312 mm)
20.5-25, 12 PR (1)	88.7 in. (2250 mm)	100.7 in. (2562 mm)	- 12.0 in. (-305 mm)	88.4 in. (2236 mm)	100.7 in. (2562 mm)	- 12.3 in. (-312 mm)

SPECIFICATIONS/DIMENSIONS

TRAK (continued)

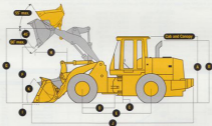
	L1150		L1155			
Class of	Total Width	Wheel-to-Wheel Plus	Change in Vertical Height	Total Width	Wheel-to-Wheel Plus	Change in Vertical Height
21.5-23, 20/90 L1	33.4 in. (849 mm)	33.4 in. (849 mm)	33.4 in. (849 mm)	33.4 in. (849 mm)	33.4 in. (849 mm)	33.4 in. (849 mm)
21.5 B (23, GP-20) Goodyear Radial 8.3 type	35.4 in. (899 mm)	35.4 in. (899 mm)	35.4 in. (899 mm)	35.4 in. (899 mm)	35.4 in. (899 mm)	35.4 in. (899 mm)
21.5 B (23, M&T) Michelin Radial 8.3 type	35.4 in. (899 mm)	35.4 in. (899 mm)	35.4 in. (899 mm)	35.4 in. (899 mm)	35.4 in. (899 mm)	35.4 in. (899 mm)

DIMENSIONS (U.S.)

Fuel tank (with ground level leveling)	79 gal. (298 L)	99 gal. (374 L)
Cooling system	21 qt. (20 L)	31 qt. (29 L)
Engine lubrication, including full flow option filter	21 qt. (20 L)	29 qt. (28 L)
Power shift transmission, including working range filter	29 qt. (27 L)	27 qt. (26 L)
Differential (each side)		
Front	39 qt. (36 L)	29 qt. (27 L)
Rear	39 qt. (36 L)	29 qt. (27 L)
Loader hydraulic reservoir and filter	31 gal. (117 L)	31 gal. (117 L)
Parking brake	39 cu. in. (800 L)	29 cu. in. (600 L)

DIMENSIONS WITH PIN-ON-TYRE SOCKET

- | | | |
|--|-------------------------|-----------------------|
| 1 Height to top of cab and canopy | 39 ft. 10 in. (1200 mm) | 11 ft. 2 in. (340 mm) |
| 2 Height to top of exhaust | 39 ft. 10 in. (1200 mm) | 11 ft. 9 in. (350 mm) |
| 3 Ground clearance | 36.8 in. (935 mm) | 16.1 in. (411 mm) |
| 4 Length from centerline to front axle | 39.60 in. (1002 mm) | 40.0 in. (1000 mm) |
| 5 Wheelbase | 119.1 in. (3020 mm) | 126.0 in. (3200 mm) |
| 6 Dump height | ▲ (see below) | ▲ (see page 36) |
| 7 Height to hinge pin, fully raised | 33 ft. 9 in. (1034 mm) | 13 ft. 7 in. (414 mm) |
| 8 Dump reach | ▲▲ (see below) | ▲▲ (see page 36) |
| 9 Maximum digging depth | 3.4 ft. (92 mm) | 2.7 ft. (69 mm) |
| 10 Overall length | ▲▲▲ (see below) | ▲▲▲ (see page 36) |
| 11 Maximum tiltback at ground level | 40 degrees | 40 degrees |



LOAD PIN-ON-TYRE SOCKET INFORMATION

Bucket Type/Use	Stockpiling and General Purpose	Stockpiling and General Purpose	Stockpiling and General Purpose	Excavating	Excavating w/Teeth and Spacers
Capacity: heaped SAE	1.9 cu. yd. (14.7 m ³)	1.9 cu. yd. (14.7 m ³)	1.9 cu. yd. (14.7 m ³)	1.9 cu. yd. (14.7 m ³)	1.9 cu. yd. (14.7 m ³)
Capacity: stradd SAE	1.8 cu. yd. (13.6 m ³)	1.8 cu. yd. (13.6 m ³)	1.8 cu. yd. (13.6 m ³)	1.8 cu. yd. (13.6 m ³)	1.8 cu. yd. (13.6 m ³)
Bucket width	105.9 in. (2690 mm)	105.9 in. (2690 mm)	105.9 in. (2690 mm)	105.9 in. (2690 mm)	105.9 in. (2690 mm)
Breakout force, SAE 1712C	27,711 lb. (12,579 kg)	27,701 lb. (12,579 kg)	26,490 lb. (12,011 kg)	30,710 lb. (13,930 kg)	30,701 lb. (13,930 kg)
Tipping load, straight	23,647 lb. (10,726 kg)	23,480 lb. (10,652 kg)	23,261 lb. (10,553 kg)	26,060 lb. (11,914 kg)	26,022 lb. (11,843 kg)
Tipping load, 40-degree full turn, SAE	19,969 lb. (8998 kg)	19,810 lb. (8956 kg)	19,610 lb. (8901 kg)	23,062 lb. (10,461 kg)	23,013 lb. (10,441 kg)
Reach, 40-degree dump, 7-ft. (2.13 m) clearance	62.1 in. (1579 mm)	64.8 in. (1647 mm)	63.6 in. (1626 mm)	62.5 in. (1587 mm)	62.4 in. (1585 mm)
▲▲ Reach, 40-degree dump, full height	60.9 in. (1548 mm)	63.6 in. (1616 mm)	62.3 in. (1577 mm)	61.7 in. (1567 mm)	61.5 in. (1561 mm)
▲ Dump clearance, 40 degree, full height	112.8 in. (2868 mm)	108.2 in. (2749 mm)	111.8 in. (2829 mm)	115.8 in. (2940 mm)	115.5 in. (2918 mm)
▲▲▲ Overall length, truck on ground	29 ft. 9 in. (9143 mm)	29 ft. 4 in. (8941 mm)	29 ft. 0 in. (8936 mm)	29 ft. 7 in. (9046 mm)	29 ft. 1 in. (8951 mm)
Loader clearance-over, bucket on carry position	39 ft. 8 in. (1200 mm)	40 ft. 0 in. (1219 mm)	39 ft. 9 in. (1213 mm)	39 ft. 3 in. (1207 mm)	39 ft. 9 in. (1214 mm)
Operating weight	29,894 lb. (13,560 kg)	30,822 lb. (13,984 kg)	30,128 lb. (13,666 kg)	29,708 lb. (13,480 kg)	29,868 lb. (13,548 kg)

Loader operating information is based on machine with all standard equipment; 20.5-23, 12/90 L1 tires; 11,600-lb. (5274 kg) optional counterweight; 8000-cu. yd. (7546-cu. yd.) operator

ADJUSTMENTS TO OPERATING WEIGHTS WITH P8-08 BUCKET

Adjustments to operating weights and tipping loads for 6.5 cu. yd. (11.7 m³) material-handling bucket with built-on cutting edge

Add 1 cu. yd. (1.65 kg) as indicated for

Bucket width	Operating Weight	Tipping Load, Straight	Tipping Load, 45°
11.3-15, 12 PB 12 tires	347 lb. (+ 249 kg)	- 177 lb. (+ 179 kg)	- 254 lb. (+ 147 kg)
11.3-15, 12 PB 13 tires	392 lb. (+ 179 kg)	- 133 lb. (+ 109 kg)	- 249 lb. (+ 127 kg)
11.3-15, GP-28 L2 GoodYear Radial	291 lb. (+ 132 kg)	- 201 lb. (+ 90 kg)	- 172 lb. (+ 78 kg)
11.3-15, 371A L2 Michelin Radial	414 lb. (+ 206 kg)	- 311 lb. (+ 140 kg)	- 249 lb. (+ 122 kg)
11.3-15, 308A L2 Michelin Radial	280 lb. (+ 127 kg)	- 192 lb. (+ 87 kg)	- 160 lb. (+ 71 kg)
20.3-25, 12 PB 13 tires	394 lb. (+ 174 kg)	+ 265 lb. (+ 120 kg)	+ 137 lb. (+ 60 kg)
20.3-25, GP-28 L2 GoodYear Radial	402 lb. (+ 187 kg)	+ 282 lb. (+ 128 kg)	+ 144 lb. (+ 65 kg)
20.3-25, 371A L2 Michelin Radial	532 lb. (+ 249 kg)	+ 398 lb. (+ 181 kg)	+ 190 lb. (+ 86 kg)
20.3-25, 308A L2 Michelin Radial	470 lb. (+ 214 kg)	+ 326 lb. (+ 147 kg)	+ 166 lb. (+ 75 kg)
Ca2, 16 20.3-25 rear tires*	+ 1,820 lb. (+ 826 kg)	+ 1,040 lb. (+ 471 kg)	+ 1,143 lb. (+ 518 kg)
Optional counterweight removed†	- 1,000 lb. (- 454 kg)	- 2,366 lb. (- 1074 kg)	- 1,322 lb. (- 602 kg)

*Optional counterweight not to be used when Ca2, 16 other ballast is used in rear tires.

800L P8-08 TIRE BUCKET INFORMATION

Bucket Type/Size	Min. Lifting and General Purpose w/Bottom Edge	Min. Lifting and General Purpose w/Teeth and Spacers	Skidding and General Purpose w/TOE†	Excavating w/Bottom Edge	Excavating w/Teeth and Spacers
	cu. yd. (cu. m)	cu. yd. (cu. m)	cu. yd. (cu. m)	cu. yd. (cu. m)	cu. yd. (cu. m)
Capacity, heaped 50%	4.20 cu. yd. (13.3 m ³)	4.20 cu. yd. (13.3 m ³)	4.20 cu. yd. (13.3 m ³)	3.5 cu. yd. (12.7 m ³)	3.5 cu. yd. (12.7 m ³)
Capacity, struck 50%	3.7 cu. yd. (12.8 m ³)	3.7 cu. yd. (12.8 m ³)	3.7 cu. yd. (12.8 m ³)	3.0 cu. yd. (12.1 m ³)	3.0 cu. yd. (12.1 m ³)
Bucket width	114.2 in. (2900 mm)	114.2 in. (2900 mm)	114.2 in. (2900 mm)	114.2 in. (2900 mm)	114.2 in. (2900 mm)
Bucket force, 548 2700	54,400 lb. (14,444 kg)	54,400 lb. (14,444 kg)	51,980 lb. (14,404 kg)	59,200 lb. (17,765 kg)	59,200 lb. (17,765 kg)
Tipping load, straight	30,000 lb. (13,608 kg)	30,677 lb. (13,911 kg)	30,788 lb. (13,963 kg)	30,572 lb. (13,851 kg)	31,400 lb. (14,247 kg)
Tipping load, 45-degree full turn, 548	25,000 lb. (11,375 kg)	25,800 lb. (11,704 kg)	25,897 lb. (11,747 kg)	25,638 lb. (11,619 kg)	26,460 lb. (12,000 kg)
clearance	65.3 in. (1658 mm)	67.2 in. (1706 mm)	65.8 in. (1671 mm)	67.9 in. (1726 mm)	65.3 in. (1658 mm)
▲▲ Back, 45-degree dump, full height	45.8 in. (1159 mm)	45.7 in. (1149 mm)	42.2 in. (1073 mm)	37.2 in. (948 mm)	41.2 in. (1046 mm)
▲▲ Dump clearance, 45-degree, full height	104.3 in. (2650 mm)	112.1 in. (2848 mm)	116.0 in. (2946 mm)	109.5 in. (2780 mm)	114.2 in. (2900 mm)
▲▲▲ Overall height, bucket on ground	26.8 ft. (8.14 m)	26.8 ft. (8.14 m)	26.6 ft. (8.10 m)	26.8 ft. (8.14 m)	26.8 ft. (8.14 m)
bucket clearance above bucket to carry position	42.9 ft. (13,107 mm)	42.9 ft. (13,107 mm)	42.9 ft. (13,107 mm)	40.9 ft. (12,511 mm)	42.9 ft. (13,107 mm)
operating weight	38,140 lb. (17,311 kg)	38,207 lb. (17,341 kg)	38,439 lb. (17,434 kg)	38,673 lb. (17,576 kg)	38,304 lb. (17,328 kg)

Loader operating information is based on machine with all standard equipment. 20.3-25, 12 PB 12 tires; 1,707-lb. (768 kg) optional counterweight. 50% only 17.0-lb. (7.7 kg) operator.

ADJUSTMENTS TO OPERATING WEIGHTS WITH P8-08 BUCKET

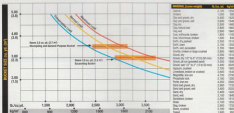
Adjustments to operating weights and tipping loads for 6.24 cu. yd. (11.3 m³) material-handling bucket with built-on cutting edge

Add 1 cu. yd. (1.65 kg) as indicated for

Bucket width	Operating Weight	Tipping Load, Straight	Tipping Load, 45°
20.3-25, 12 PB 13 tires	1,691 lb. (+ 769 kg)	- 1,171 lb. (+ 531 kg)	- 1,012 lb. (+ 459 kg)
20.3-25, 12 PB 13 tires	1,697 lb. (+ 769 kg)	- 1,096 lb. (+ 493 kg)	- 964 lb. (+ 435 kg)
20.3-25, 16 PB 13 tires	1,693 lb. (+ 764 kg)	- 825 lb. (+ 374 kg)	- 712 lb. (+ 320 kg)
20.3-25, 371A L2 Michelin Radial	1,509 lb. (+ 689 kg)	- 1,060 lb. (+ 481 kg)	- 922 lb. (+ 418 kg)
20.3-25, 371A L2 Michelin Radial	1,220 lb. (+ 554 kg)	- 866 lb. (+ 393 kg)	- 750 lb. (+ 338 kg)
20.3-25, 20 PB 13 tires	384 lb. (+ 174 kg)	+ 267 lb. (+ 121 kg)	+ 129 lb. (+ 59 kg)
20.3-25, GP-28 L2 GoodYear Radial	420 lb. (+ 190 kg)	+ 344 lb. (+ 155 kg)	+ 143 lb. (+ 64 kg)
20.3-25, 308A L2 Michelin Radial	347 lb. (+ 158 kg)	+ 238 lb. (+ 108 kg)	+ 148 lb. (+ 67 kg)
Ca2, 16 20.3-25 rear tires*	+ 2,894 lb. (+ 1312 kg)	+ 1,816 lb. (+ 826 kg)	+ 2,046 lb. (+ 929 kg)
Optional counterweight removed†	- 1,707 lb. (- 784 kg)	- 3,605 lb. (- 1,631 kg)	- 1,712 lb. (- 784 kg)

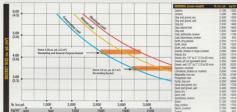
*Optional counterweight not to be used when Ca2, 16 other ballast is used in rear tires.

800L BUCKET SELECTION GUIDE*



*Capacity representing bucket class on standard manufacturer's basis. All data are subject to change based on machine, bucket configuration, bucket configuration, and specific conditions. Bucket load class is determined after adding a minimum of 10% of bucket weight for all bucket capacities. The "Bucket Capacity" is the gross bucket capacity when operating in combination with a full payload and unless noted. The "Bucket Load Capacity" is the gross bucket capacity when operating in combination with a full payload and unless noted.

LOAD-BUCKET SELECTION GUIDE*



*This guide represents bucket load not necessarily manufactured to these, and that your selected loader bucket may be subject to weight, grade, compaction, and operating conditions. Optimum bucket use is determined after testing or evaluating all attachments to be selected equipment. The information contained in this guide is for informational purposes only and does not constitute a warranty. The maximum lift condition in this guide is a condition without any operating conditions such as lift position and wheel lock.

DIMENSIONS WITH TOOL CARRIER

BUCKET*

- 1 Dump clearance ▲ (see page 18)
- 2 Dump reach ▲▲ (see page 18)
- 3 Maximum digging depth 1.6 in. (41 mm)
- 4 Height to hinge pin, fully raised 13 ft. 0 in. (3961 mm)
- 5 Overall length ▲▲▲▲ (see page 18)
- 6 Maximum rollback, boom fully raised 55 degrees
- 7 Maximum bucket dump angle, fully raised 50 degrees
- 8 Maximum rollback at ground level 80 degrees

*Allied attachments ordered through John Deere dealers.

PALETT FORK*

- 1 Reach, fully raised 2 ft. 3 in. (675 mm)
- 2 Fork height, fully raised 13 ft. 3 in. (3732 mm)
- 3 Maximum reach, fork level 3 ft. 0 in. (912 mm)
- 4 Fork height, maximum reach 3 ft. 30 in. (1075 mm)
- 5 Reach, ground level 3 ft. 0 in. (912 mm)
- 6 Depth below ground 2.5 in. (64 mm)
- 7 Tare length ▲ (see page 19)
- 8 Overall length ▲▲ (see page 19)

LOAD

- ▲ (see page 19)
- ▲▲ (see page 19)
- 2.5 in. (63 mm)
- 10 ft. 7 in. (3114 mm)
- ▲▲▲▲ (see page 19)
- 55 degrees
- 45 degrees
- 80 degrees

- 2 ft. 1 in. (642 mm)
- 12 ft. 11 in. (3897 mm)
- 3 ft. 1 in. (917 mm)
- 4 ft. 1 in. (1248 mm)
- 3 ft. 0 in. (912 mm)
- 2 in. (49 mm)
- ▲ (see page 19)
- ▲▲ (see page 19)



LOADER WITH TOOL CARRIER AND BUCKET*

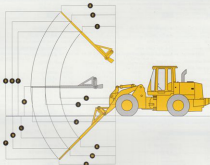


LOADER WITH TOOL CARRIER AND PALETT FORK*

DIMENSIONS WITH TOOL CARRIER
DATA
UNITS
MATERIAL HANDLING ARM*

Reach, fully raised (extended)	38 ft. 11 in. (1187 mm)	7 ft. 2 in. (2200 mm)
Height, fully raised (extended)	24 ft. 6 in. (7314 mm)	19 ft. 2 in. (5843 mm)
Reach, fully raised (mid-position)	9 ft. 2 in. (2800 mm)	10 ft. 1 in. (3079 mm)
Height, fully raised (mid-position)	21 ft. 8 in. (6603 mm)	21 ft. 7 in. (6576 mm)
Reach, fully raised (retracted)	4 ft. 7 in. (1411 mm)	12 ft. 6 in. (3800 mm)
Height, fully raised (retracted)	38 ft. 11 in. (1176 mm)	23 ft. 2 in. (7063 mm)
Maximum reach (retracted)	11 ft. 10 in. (3609 mm)	12 ft. 2 in. (3709 mm)
Reach, maximum reach	4 ft. 5 in. (1346 mm)	4 ft. 9 in. (1400 mm)
Maximum reach (mid-position)	15 ft. 7 in. (4742 mm)	15 ft. 11 in. (4832 mm)
Maximum reach (extended)	38 ft. 1 in. (11604 mm)	18 ft. 1 in. (5514 mm)
Reach, below ground (retracted)	7 ft. 4 in. (2237 mm)	6 ft. 2 in. (1880 mm)
Depth, below ground (retracted)	5 ft. 4 in. (1621 mm)	4 ft. 7 in. (1405 mm)
Reach, below ground (mid-position)	36 ft. 2 in. (10994 mm)	11 ft. 1 in. (3379 mm)
Depth, below ground (mid-position)	7 ft. 4 in. (2289 mm)	7 ft. 8 in. (2312 mm)
Reach, below ground (extended)	12 ft. 9 in. (3835 mm)	15 ft. 6 in. (4753 mm)
Depth, below ground (extended)	9 ft. 2 in. (2793 mm)	9 ft. 4 in. (2860 mm)

*All dimensions ordered through John Deere dealers.



BACKHOE LOADER WITH TOOL CARRIER AND MATERIAL-HANDLING ARM*

LEAN TOOL CARRIER INFORMATION WITH BUCKET AND QUICK COUPLER

Bucket Type/Use	Backfilling and General Purpose		Backfilling and General Purpose		Excavating		Excavating w/Teeth and Aggrators	
	with/Bottom Edge	w/Teeth and Aggrators	with/Bottom Edge	w/Teeth and Aggrators	with/Bottom Edge	w/Teeth and Aggrators	with/Bottom Edge	w/Teeth and Aggrators
Capacity, bucket full	3.1 cu. yd. (23 m ³)	3.3 cu. yd. (25 m ³)	3.3 cu. yd. (25 m ³)	3.5 cu. yd. (26 m ³)	3.0 cu. yd. (23 m ³)	3.8 cu. yd. (29 m ³)	3.8 cu. yd. (29 m ³)	3.7 cu. yd. (28 m ³)
Capacity, attack soil	3.0 cu. yd. (23 m ³)	3.0 cu. yd. (23 m ³)	3.0 cu. yd. (23 m ³)	3.0 cu. yd. (23 m ³)	2.7 cu. yd. (21 m ³)	3.7 cu. yd. (28 m ³)	3.7 cu. yd. (28 m ³)	3.7 cu. yd. (28 m ³)
Bucket width	105.7 in. (2695 mm)	105.7 in. (2695 mm)	105.7 in. (2695 mm)	105.7 in. (2695 mm)	105.7 in. (2695 mm)	105.7 in. (2695 mm)	105.7 in. (2695 mm)	105.7 in. (2695 mm)
Bucket force, 90° (1/3C)	35,894 lb. (12,199 kg)	35,894 lb. (12,199 kg)	35,894 lb. (12,199 kg)	35,894 lb. (12,199 kg)	27,576 lb. (12,508 kg)	27,576 lb. (12,508 kg)	27,576 lb. (12,508 kg)	27,576 lb. (12,508 kg)
Tipping load, straight	22,890 lb. (10,383 kg)	22,729 lb. (10,303 kg)	22,729 lb. (10,303 kg)	22,729 lb. (10,303 kg)	22,848 lb. (10,364 kg)	22,848 lb. (10,364 kg)	22,848 lb. (10,364 kg)	22,848 lb. (10,364 kg)
Tipping load, 45-degree full turn, full reach, 45-degree dump, 7/8 (2/3 B)	19,281 lb. (8745 kg)	19,123 lb. (8675 kg)	19,123 lb. (8675 kg)	19,123 lb. (8675 kg)	19,270 lb. (8743 kg)	19,270 lb. (8743 kg)	19,270 lb. (8743 kg)	19,270 lb. (8743 kg)
Clearance	63.7 in. (1618 mm)	64.9 in. (1648 mm)	64.9 in. (1648 mm)	64.9 in. (1648 mm)	63.7 in. (1618 mm)	64.9 in. (1648 mm)	64.9 in. (1648 mm)	64.9 in. (1648 mm)
▲▲ Reach, 45-degree dump, full height	11.6 in. (2952 mm)	46.8 in. (1188 mm)	46.8 in. (1188 mm)	46.8 in. (1188 mm)	11.1 in. (2814 mm)	46.8 in. (1188 mm)	46.8 in. (1188 mm)	46.8 in. (1188 mm)
▲▲▲ Dump clearance, 45-degree, full height	111.4 in. (2834 mm)	107.4 in. (2729 mm)	107.4 in. (2729 mm)	107.4 in. (2729 mm)	112.4 in. (2854 mm)	108.1 in. (2746 mm)	108.1 in. (2746 mm)	108.1 in. (2746 mm)
▲▲▲ Overall length, bucket on ground	25 ft. 4 in. (7740 mm)	25 ft. 7 in. (7803 mm)	25 ft. 7 in. (7803 mm)	25 ft. 7 in. (7803 mm)	25 ft. 8 in. (7816 mm)	25 ft. 4 in. (7716 mm)	25 ft. 4 in. (7716 mm)	25 ft. 4 in. (7716 mm)
Location: steering circle, bucket in carry position	39 ft. 9 in. (12168 mm)	40 ft. 1 in. (12230 mm)	40 ft. 1 in. (12230 mm)	40 ft. 1 in. (12230 mm)	39 ft. 9 in. (12168 mm)	40 ft. 1 in. (12230 mm)	40 ft. 1 in. (12230 mm)	40 ft. 1 in. (12230 mm)
Operating weight	30,490 lb. (13,831 kg)	30,490 lb. (13,831 kg)	30,490 lb. (13,831 kg)	30,490 lb. (13,831 kg)	30,490 lb. (13,831 kg)	30,490 lb. (13,831 kg)	30,490 lb. (13,831 kg)	30,490 lb. (13,831 kg)

Loader operating information is based on machine with all standard equipment, 36.1-25, 12.1R-12 tires, 1.645-hp (1.21 kw) optional counterweight, 60.9% curb 175-hp (129 kw) operator and full half-load. This information is affected by tire size, ballast, and different attachments.

ADJUSTMENTS TO OPERATING WEIGHTS FOR TOOL CARRIER WITH BUCKET AND QUICK-COUPLERAdjustments to operating weights and tipping loads for 4.0 cu. yd. (3.0 m³) material handling bucket with bolt-on cutting edge add (+) or deduct (-) lbs. (kg) as indicated.

In bucket with:	Operating Weight	Tipping Load, Straight	Tipping Load, 45°
17.5-25, 11.7R-12 tires	147 lbs. (- 768 kg)	- 136 lbs. (- 168 kg)	- 109 lbs. (- 143 kg)
17.5-25, 11.7R-13 tires	- 107 lbs. (- 178 kg)	- 126 lbs. (- 160 kg)	- 76 lbs. (- 105 kg)
17.5-25, GP-26-12 Goodline Radial	- 293 lbs. (- 132 kg)	- 194 lbs. (- 88 kg)	- 178 lbs. (- 77 kg)
17.5-25, XTR-12 Michelin Radial	- 414 lbs. (- 206 kg)	- 298 lbs. (- 136 kg)	- 265 lbs. (- 120 kg)
17.5-25, XSR12.1 Michelin Radial	- 380 lbs. (- 171 kg)	- 198 lbs. (- 90 kg)	- 163 lbs. (- 74 kg)
20.5-25 12.7R-13 tires	- 188 lbs. (- 174 kg)	- 200 lbs. (- 108 kg)	- 225 lbs. (- 102 kg)
20.5-25, GP-26-12 Goodline Radial	- 412 lbs. (- 187 kg)	- 278 lbs. (- 126 kg)	- 246 lbs. (- 112 kg)
20.5-25, XTR-12 Michelin Radial	- 152 lbs. (- 69 kg)	- 104 lbs. (- 47 kg)	- 88 lbs. (- 40 kg)
20.5-25, XSR12.1 Michelin Radial	- 473 lbs. (- 214 kg)	- 350 lbs. (- 159 kg)	- 276 lbs. (- 125 kg)
CaCl ₂ on 20.5-25 rear tires*	- 1,821 lbs. (- 826 kg)	- 2,400 lbs. (- 1090 kg)	- 3,126 lbs. (- 1424 kg)
Optional counterweight removed*	- 1,643 lbs. (- 747 kg)	- 2,268 lbs. (- 1030 kg)	- 1,880 lbs. (- 853 kg)

*Optional counterweight not to be used when CaCl₂ or other ballast is used in rear tires.**TOOL CARRIER INFORMATION WITH PALLET FORK AND QUICK-COUPLER**

A Tire Length	48 in. (1220 mm)	24 in. (1075 mm)	40 in. (1025 mm)
A.A Overall length	26 ft. 3 in. (7964 mm)	26 ft. 3 in. (8007 mm)	27 ft. 1 in. (8269 mm)
Tipping load, straight (fork level, load centered 24 in. (610 mm) forward on tires)	14,740 lbs. (6686 kg)	14,008 lbs. (6360 kg)	13,498 lbs. (6100 kg)
Tipping load, 40-degree full turn (fork level, load centered 24 in. (610 mm) forward on tires)	12,498 lbs. (5669 kg)	11,822 lbs. (5368 kg)	11,893 lbs. (5404 kg)
Operating weight	29,179 lbs. (13299 kg)	29,263 lbs. (13308 kg)	29,457 lbs. (13389 kg)

TOOL CARRIER INFORMATION WITH MATERIAL-HANDLING ARM AND QUICK-COUPLER

Boom Position	Retracted	Mid-position	Extended
Operating load	4,777 lbs. (2167 kg)	7,732 lbs. (3509 kg)	3,265 lbs. (1482 kg)
Tipping load, straight	31,292 lbs. (14222 kg)	6,616 lbs. (3006 kg)	7,896 lbs. (3580 kg)
Tipping load, 40-degree full turn	9,313 lbs. (4203 kg)	7,461 lbs. (3386 kg)	6,890 lbs. (3114 kg)
Operating weight	29,633 lbs. (13478 kg)	29,835 lbs. (13578 kg)	29,655 lbs. (13476 kg)

REAR TOOL CARRIER INFORMATION WITH BUCKET AND QUICK-COUPLER

Bucket Type/Use	Stocking and General Purpose	Stocking and General Purpose	Stocking and General Purpose	Excavating with Back	Excavating in Trench and Aprons
Capacity, heaped M ³	4.25 cu. yd. (3.2 m ³)	4.25 cu. yd. (3.2 m ³)	4.25 cu. yd. (3.2 m ³)	3.1 cu. yd. (2.7 m ³)	3.1 cu. yd. (2.7 m ³)
Capacity, struck M ³	3.8 cu. yd. (2.9 m ³)	3.8 cu. yd. (2.9 m ³)	3.8 cu. yd. (2.9 m ³)	3.1 cu. yd. (2.6 m ³)	3.1 cu. yd. (2.6 m ³)
Bucket width	114.2 in. (2900 mm)	114.2 in. (2900 mm)	114.2 in. (2900 mm)	114.2 in. (2900 mm)	114.2 in. (2900 mm)
Breakout force, SAE (170C)	26,997 lb. (12150 kg)	26,997 lb. (12150 kg)	33,985 lb. (15440 kg)	33,809 lb. (15382 kg)	32,809 lb. (14882 kg)
Tipping load, straight	26,748 lb. (12069 kg)	27,476 lb. (12463 kg)	30,783 lb. (13983 kg)	29,442 lb. (13364 kg)	29,530 lb. (13326 kg)
Tipping load, 40-degree full turn, SAE	24,698 lb. (11192 kg)	22,624 lb. (10305 kg)	24,897 lb. (11247 kg)	24,129 lb. (10927 kg)	24,426 lb. (11079 kg)
Reach, 40-degree dump, 7.6 (2.33 m) clearance	52.0 in. (1326 mm)	55.0 in. (1397 mm)	45.8 in. (1167 mm)	44.0 in. (1118 mm)	46.5 in. (1180 mm)
A.A Reach, 45-degree dump, full height	41.9 in. (1064 mm)	47.1 in. (1200 mm)	42.2 in. (1071 mm)	41.0 in. (1041 mm)	47.7 in. (1211 mm)
A Dump clearance, 45 degrees, full height	107.0 in. (2719 mm)	102.0 in. (2591 mm)	116.0 in. (2941 mm)	111.7 in. (2837 mm)	107.0 in. (2717 mm)
A.A.A Overall length, bucket on ground	27 ft. 9 in. (8504 mm)	27 ft. 7 in. (8439 mm)	26 ft. 5 in. (8065 mm)	25 ft. 9 in. (7905 mm)	26 ft. 4 in. (8023 mm)
Loader clearance (bucket in carry position)	42 ft. 9 in. (13043 mm)	43 ft. 9 in. (13332 mm)	42 ft. 2 in. (12860 mm)	41 ft. 11 in. (12798 mm)	42 ft. 3 in. (12869 mm)
Operating weight	29,692 lb. (13504 kg)	29,747 lb. (13504 kg)	30,429 lb. (13849 kg)	29,260 lb. (13309 kg)	29,557 lb. (13443 kg)

Loader operating information is based on machine with all standard equipment, 10.5-25, 12.7R-13 tires, 1,707-lb. (786 kg) optional counterweight, 80.9% cuts, 175-hp (129 kW) operator, and full load bank. This information is affected by tire size, ballast, and different attachment.

ADJUSTMENTS TO OPERATING WEIGHTS FOR TOOL CARRIER WITH BUCKET AND QUICK-COUPLERAdjustments to operating weights and tipping loads for 4.25 cu. yd. (3.2 m³) material handling bucket with bolt-on cutting edge add (+) or deduct (-) lbs. (kg) as indicated.

In bucket with:	Operating Weight	Tipping Load, Straight	Tipping Load, 45°
17.5-25, 11.7R-12 tires	1,691 lbs. (- 768 kg)	- 1,137 lbs. (- 513 kg)	- 874 lbs. (- 143 kg)
17.5-25, 11.7R-13 tires	- 1,207 lbs. (- 543 kg)	- 811 lbs. (- 369 kg)	- 748 lbs. (- 137 kg)
17.5-25, 10.7R-13 tires	- 1,193 lbs. (- 540 kg)	- 806 lbs. (- 367 kg)	- 746 lbs. (- 137 kg)
20.5-25, XTR-12 Michelin Radial	- 1,839 lbs. (- 836 kg)	- 1,027 lbs. (- 466 kg)	- 886 lbs. (- 402 kg)
20.5-25, XSR12.1 Michelin Radial	- 1,221 lbs. (- 554 kg)	- 811 lbs. (- 369 kg)	- 769 lbs. (- 179 kg)
20.5-25, 12.7R-13 tires	- 188 lbs. (- 174 kg)	- 226 lbs. (- 103 kg)	- 220 lbs. (- 100 kg)
20.5-25, GP-26-12 Goodline Radial	- 525 lbs. (- 238 kg)	- 348 lbs. (- 158 kg)	- 302 lbs. (- 137 kg)
20.5-25, XSR12.1 Michelin Radial	- 747 lbs. (- 339 kg)	- 499 lbs. (- 226 kg)	- 438 lbs. (- 199 kg)
CaCl ₂ on 20.5-25 rear tires*	- 2,113 lbs. (- 958 kg)	- 2,799 lbs. (- 1269 kg)	- 3,740 lbs. (- 1702 kg)
Optional counterweight removed*	- 1,913 lbs. (- 869 kg)	- 2,524 lbs. (- 1149 kg)	- 3,026 lbs. (- 1380 kg)

*Optional counterweight not to be used when CaCl₂ or other ballast is used in rear tires.**TOOL CARRIER INFORMATION WITH PALLET FORK AND QUICK-COUPLER**

A Tire Length	48 in. (1220 mm)	24 in. (1075 mm)
A.A Overall length	26 ft. 4 in. (8004 mm)	26 ft. 4 in. (8046 mm)
Tipping load, straight (fork level, load centered 24 in. (610 mm) forward on tires)	17,254 lbs. (7826 kg)	15,431 lb. (7006 kg)
Tipping load, 40-degree full turn (fork level, load centered 24 in. (610 mm) forward on tires)	14,153 lbs. (6491 kg)	13,127 lbs. (6004 kg)
Operating weight	36,423 lbs. (16518 kg)	36,179 lbs. (16472 kg)

TOOL CARRIER INFORMATION WITH MATERIAL-HANDLING ARM AND QUICK-COUPLER

Boom Position	Retracted	Mid-position	Extended
Operating load	4,800 lbs. (2180 kg)	4,970 lbs. (2255 kg)	4,265 lbs. (1931 kg)
Tipping load, straight	34,823 lbs. (15769 kg)	11,794 lbs. (5349 kg)	10,226 lbs. (4644 kg)
Tipping load, 40-degree full turn	12,600 lbs. (5715 kg)	9,940 lbs. (4509 kg)	8,890 lbs. (4014 kg)
Operating weight	37,183 lbs. (16894 kg)	37,133 lbs. (16894 kg)	37,155 lbs. (16894 kg)

ADDITIONAL EQUIPMENT

	STANDARD EQUIPMENT	OPTIONAL EQUIPMENT		STANDARD EQUIPMENT	OPTIONAL EQUIPMENT
ENGINE			Lighting		
Anti-rattle, JAYV (12"V)	•	•	Entrying with gauges / Turn signals and flashers / Stop and tailights / Conform to SAE 99	•	•
Coolant recovery tank	•	•	Work lights, front (2) and rear (2)	•	•
For safety gear	•	•	Front, with push button in corner of steering wheel	•	•
Muffler, under hood with large exhaust stack	•	•	Conforms to SAE J994, J1444	•	•
Chrome exhaust stack	•	•	Inverse warning alarm	•	•
Environmentally friendly engine oil drain	•	•	Conforms to SAE J994, J1444	•	•
Engine oil cooler	•	•	Dedicated monitor and alarm system, multi-function computerized electronic	•	•
Quick-release fuel filter and water separator	•	•	audible and visual warnings include	•	•
Filter shut-off (for cold starts)	•	•	Message center display / 12-character message board	•	•
Engine air heater (for cold starts)	•	•	Reading instruments: Engine coolant temperature / Transmission oil temperature / Fuel level / Speedometer / Engine oil pressure / Hydraulic oil temperature	•	•
Engine-cooled heater, 1,800 watts, 180 volts	•	•	Digital instruments (engine rpm / Selectable battery voltage or alternator / Transmission gear indicator / Hour-meter)	•	•
Heavy-duty track-mounted cooling package	•	•	Operator warning lights: Coolant level / Engine oil pressure / Engine air filter / Battery voltage / Transmission filter restriction / Brake pressure / Hydraulic oil temperature / Hydraulic oil filter / Fuses rear left / Fuel leaks activated	•	•
Diesel and high-altitude cooling package	•	•	Indicator lights: Turn signals / Warning flashers / Work lights	•	•
Special application track system, axle seal guards, etc.	•	•	Battery diagnostics: Fuel code retrieval / Message center	•	•
			Push-button selection: Three clutch-on adjustments / Two automatic transmission operations / Two quick-shift button operation	•	•
POWER TRAIN					
10-39 transmission, computer-controlled	•	•	Radio-ready cab, fixed (4-wire radio electrical lead, and level lead for optional Deere 14-amp and 18-amp voltage converters	•	•
Electronic shift shift, automatic shift and quick shift features (as listed)	•	•	24-volt to (2-wire) radio converter, 8 amp with exception	•	•
Conventional-type differentials, front and rear	•	•	24-volt to (2-wire) radio converter, 10-amp with exception	•	•
Front axle with hydraulic locking differential	•	•	24-volt AM/FM stereo radio with clock	•	•
Front and rear axles with limited slip differentials	•	•	Cab wired for mounting beacon	•	•
Front axle disconnect	•	•			
			OPERATIONS SECTION		
HYDRAULIC SYSTEM			Category	•	•
Automatic loaded start-to-boost control	•	•	10/27/32/37 / Multiple isolation mounted for maintenance reduction / Conforms to SAE J1040 AF100	•	•
Automatic boom lift-to-creep control	•	•	Category rear window glass, for noise reduction	•	•
Automatic boom lift-to-creep control	•	•			
Automatic right-gauging	•	•	Cab		
Spin-on hydraulic filter, vertical mounting	•	•	BODY/POPS / Heater/Defroster / Multiple isolation mounted for maintenance reduction / Front and rear windshield wipers and intermittent wipers / Tinted window glass / Conforms to SAE J1040 AF100	•	•
Hydraulic level lockout	•	•	See vision for cab	•	•
Non-function hydraulic valve with joystick control	•	•	All configurations (factory or dealer installed)	•	•
Non-function hydraulic valve with two-lever and adjustable wiper	•	•	Seat belt, 3 in. x 7 1/2 inches, with connector	•	•
Three-function hydraulic valve with joystick control and auxiliary lever for third function	•	•	Seat, deluxe cloth covered with deep foam	•	•
Three-function hydraulic valve with two-lever and adjustable wiper and auxiliary lever for third function	•	•	High back, mechanical suspension, adjustable for weight-height, five all positions, backrest tilt, and armrest angle	•	•
Four-function hydraulic valve with dual joystick controls	•	•	Seat, air suspension, deluxe cloth covered seat backrest extension	•	•
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)	•	•			
Joystick control, automatic type	•	•			
Hydraulic control system for quick-coupler locking pins	•	•			
ELECTRICAL					
14-volt electrical system	•	•	SEATING		
Standard battery (2), 12 volt with 425 CCA, 180-min. rated reserve	•	•	Fronters, front and rear	•	•
Standard battery (2), 12 volt with 750 CCA, 150-min. rated reserve	•	•	Articulation, locking bar	•	•
High-capacity battery (2), 12 volt with 900 CCA, 200-min. rated reserve	•	•	Conforms to SAE 2075	•	•
Motor electrical disconnect switch	•	•	Variable protection, includes backlit/engine enclosure, rear grille, and fuel fill	•	•
Alternator, 55 amps and 24 volts	•	•	Counterweight, built in	•	•
Alternator, high capacity, 80 amps and 14 volts	•	•	Counterweight, extra duty, 1,040 lbs. (474 kg)	•	•
Alternator track covers	•	•	Counterweight, extra duty, 1,740 lbs. (789 kg)	•	•
			Dashwork, with locking pins	•	•
			Transmission side-plate guards	•	•
			Battery guards, front frame and transmission	•	•
			Left and right-down brackets	•	•
			Fine wire suspension	•	•
			Luxury plate bracket	•	•
			Secondary steering	•	•
			Mechanical weighing system*	•	•

• Standard equipment • Optional or special equipment

*See your John Deere dealer for further information.



All engine parts with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, a standard condition on 540, 550 and 560 G10, only No. 1 oil fuel at 30.4° gravity, fuel density required after 10/1/2000 (2000) oil filter. Maintenance is without warranty to.

Specifications and design subject to change without notice. Where applicable, specifications are in accordance with SAE standards. Weight shown after full tank. These specifications are based on models with a standard equipment set option. See counterweight chart. 5500 series. Air intake system 100 in. (2540 mm) capacity, 9000 and 10500 (2540 mm) capacity, 11500 (2927 mm) capacity and 13500 (3428 mm) capacity.

