

524 P

Wheel Loader



JOHN DEERE



ELEVATE YOUR EXPECTATIONS

VISION AND DETECTION SYSTEM OFFERINGS

Active jobsites present many operational challenges, including multiple machines, crew members, and bystanders. John Deere precision construction solutions such as Advanced Vision System (AVS), Advanced Object Detection (AOD), and SmartDetect™ can help enhance operator awareness to confidently navigate busy work areas:

- Optional **AVS** includes two additional digital cameras mounted on the left and right rearview mirror platforms that integrate with the digital rearview (backup) camera to project images on a single dedicated in-cab display.
- Paired with a high-resolution camera and a dedicated display, optional **AOD** system utilizes radar to provide in-cab operator-audible alerts when objects are detected behind the machine. AOD also adds dynamic path lines that articulate based on the loader's travel motion to the dedicated display to help operators visualize the machine's reverse path.
- Available as a factory install and also as an easily installed field kit for new and existing loaders, optional **SmartDetect** helps the operator distinguish between objects and people in the machine's reverse travel path. Combined with unique operator-audible alerts, the system issues visual cues highlighting detected objects on the dedicated display. An added external alarm alerts detected individuals in the loader's travel path. SmartDetect requires AVS, AOD, and a dedicated in-cab G5 display as well as software activation.
- Building on SmartDetect capabilities, optional **SmartDetect™ Digital** utilizes on-machine technologies to create an off-board solution for equipment owners, fleet managers, and safety professionals. Easily accessed through the user-friendly John Deere Operations Center™ mobile app, the system notifies supervisors of near-miss events with corresponding video. Weekly reports of digital usage and jobsite events within a heat-map summary are also available.



AVS ON THE G5 DISPLAY

ABOVE AND BEYOND

MEET THE P-TIER WHEEL LOADERS



**SMARTWEIGH™
PAYLOAD-WEIGHING
SOLUTION IS DEERE
DESIGNED & SUPPORTED**

When your material-handling application needs a heavy-duty lift, add a P-Tier Wheel Loader to your lineup. Combining convenient front-end features with near-parallel lift, spacious operator stations including customizable ergonomic electrohydraulic (EH) controls, streamlined electrical and hydraulic routing, and innovative options, these versatile and productive mid-size models are designed to help you take your operation to the next level.

Prepare for productivity

Integrated with the John Deere Operations Center mobile app and desktop interface, in-cab displays of auto daily fluid checks, fluid loss sensing, battery monitoring, and auto active warmup give operators the fleet health info needed to get the machine and themselves ready for a productive workday.

It pays to save

John Deere PowerTech™ 4.5L engine delivers lower hourly operating costs and 12,000-hour preventative-maintenance expenses without loss of torque or productivity compared to our 6.8L model.

LED beacon option

Four optional new LED beacons can be added to the cab of the loader to help make bystanders more aware of the machine.

Keep your cool

The next evolution of Quad-Cool™ enables the cooling system to be conveniently accessed and cleaned from ground level. All daily service points including fuel refill are conveniently grouped at ground level on the left side of the machine for easy access. Routing of electrical wire harnesses and hydraulic hoses has been streamlined.

At the forefront

Featuring bucket and linkage designs that improve load leveling, material retention, and visibility, P-Tier Loaders yield more productivity and performance than previous models. Enhanced-performance buckets with integrated spill guards, curved side cutters, and impressive rollback deliver elevated bucket-fill performance and material retention compared to earlier offerings. Optional new John Deere high-strength steel buckets with extended lip are made to move up to five-percent more material than previous designs.

Material matters

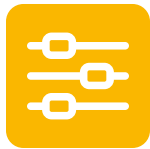
SmartWeigh option features dynamic weighing technology that allows operators to weigh without interrupting workflow and removes the need to lower and reraise the boom after tipoff. SmartWeigh upgrades include new UX features that improve operator interaction. Shared through the onboard monitor, SmartWeigh is easy to calibrate and effortlessly integrates with the John Deere Operations Center so you can track and visualize payload data from almost anywhere. Available as a factory-installed or field-kit option, you can also try SmartWeigh at a low cost for 250 machine hours.



OVERACHIEVERS

ASPIRE TO GO HIGHER.

With handy front-end features and plenty of productivity-boosting enhancements over previous models, our 524 P-Tier Wheel Loader redefines expectations about the heights a utility loader can reach.



Take control

Operators can easily control up to six functions without letting go of the ergonomically designed joystick. Four industry-exclusive multifunction buttons can each be programmed to handle any of up to 12 functions selected through the monitor, including bucket vibrate and EH Precision mode.



Have a seat

Spacious and comfortable cab features extra legroom, an improved HVAC system, additional storage, and a more adjustable seat than earlier models.



Get carried away

Tool Carrier configuration enables a clear view of the coupler and forks, making it easier to quickly move pipes, logs, and pallets.



Pretty big plus

High-Lift Plus configuration provides an additional 24 inches of hinge-pin height over standard lift height and 12 inches over the High-Lift model. All three lift heights feature near-parallel lift.



Level up

AutoLevel enables near-perfect parallelism throughout the boom-raise-and-lower cycle, letting operators set their desired attachment angle to within $\pm$ two degrees.



Connected machines

John Deere construction equipment comes with in-base connectivity — free from subscriptions or annual renewals. Analyze critical machine data, track utilization, review diagnostic alerts, and more from **the John Deere Operations Center**. The Operations Center also enables John Deere Connected Support™, which uses data from thousands of connected machines to proactively address issues before they arise. With your approval, your dealer can also remotely monitor machine health, diagnose problems, and even update machine software without a trip to the jobsite.*

*Availability varies by region and product. Options not available in every country.



524 P

WHEEL LOADER



**4 INDUSTRY-EXCLUSIVE
MULTIFUNCTION BUTTONS**



524 P-TIER WHEEL LOADER SPECIFICATIONS

While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries.

Engine			
Manufacturer and Model	John Deere PowerTech™ PSS 4045	Net Torque Rise	60%
Non-Road Emission Standard	EPA Final Tier 4/EU Stage V	Rated Speed	2,200 rpm
Cylinders	4	Fuel System (electronically controlled)	High-pressure common rail
Valves Per Cylinder	4	Lubrication	Full-flow spin-on filter and integral cooler
Displacement	4.5 L (276 cu. in.)	Aspiration	Turbocharged, charge air cooled
Net Peak Power (ISO 9249)	113 kW (152 hp) at 1,800 rpm	Air Cleaner	Under-hood, dual-element dry type, restriction indicator in cab monitor for service
Gross Peak Power (ISO 9249)	120 kW (161 hp) at 1,800 rpm		
Net Peak Torque (ISO 9249)	681 Nm (502 ft.-lb.) at 1,200 rpm		
Gross Peak Torque (ISO 9249)	713 Nm (526 ft.-lb.) at 1,400 rpm		
Cooling			
Fan Drive	Hydraulically driven, proportionally controlled, fan aft of coolers		
Electrical			
Electrical System	24 volt with 145-amp alternator		
Batteries (2 – 12 volt)	950 CCA (each)		
Transmission System			
Type	Countershaft-type PowerShift™		
Torque Converter	Single stage, single phase		
Shift Control	Electronically modulated, adaptive, load and speed dependent		
Operator Interface	Steering-column or joystick-mounted F-N-R and gear-select lever; Quick-Shift button on hydraulic lever		
Shift Modes	Manual/auto (1st–D or 2nd–D); Quick-Shift button with 2 selectable modes: kick-down or kick-up/down; and 4 clutch cutoff settings		
Maximum Travel Speeds (with 20.5 R 25 tires)	Standard 5-Speed		
	Forward	Reverse	
Range 1	5.6 km/h (3.5 mph)	5.9 km/h (3.6 mph)	
Range 2	11.0 km/h (6.8 mph)	11.6 km/h (7.2 mph)	
Range 3	17.0 km/h (10.6 mph)	27.0 km/h (16.8 mph)	
Range 4	25.6 km/h (15.9 mph)	N/A	
Range 5	40.0 km/h (24.8 mph)	N/A	
Axles/Brakes			
Final Drives	Heavy-duty inboard-mounted planetary		
Differentials	Hydraulic locking front with conventional rear — standard; dual locking front and rear — optional		
Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires)	24 deg. (12 deg. each direction)		
Brakes (conform to ISO 3450)			
Service	Hydraulically actuated, spring-retracted, self-adjusting, inboard sun-shaft mounted, oil cooled, single disc		
Parking	Automatic spring applied, hydraulically released, driveline mounted, sealed wet multi disc		
Tires/Wheels (see page 10 for complete tire adjustments)			
	Tread Width	Width Over Tires	
Bridgestone 20.5 R 25, 1 Star L-3 VJT	1952 mm (76.8 in.)	2546 mm (100.2 in.)	
Serviceability			
Refill Capacities		Refill Capacities (continued)	
Fuel Tank (with lockable cap)	187 L (49.4 gal.)	Axle Oil (each)	
Cooling System	24.3 L (25.7 qt.)	Front	16.6 L (17.5 qt.)
Diesel Exhaust Fluid (DEF)	15.6 L (16.5 qt.)	Rear	18 L (19 qt.)
Engine Oil With Vertical Spin-On Filter	14.5 L (15.3 qt.)	Hydraulic Reservoir and Filter	90.5 L (23.9 gal.)
Transmission Reservoir With Vertical Filter	21 L (22.2 qt.)	Park Brake Oil (wet disc)	0.3 L (10 oz.)
Hydraulic System/Steering			
Pump (loader and steering)	Variable-displacement, axial-piston pump; closed-center, pressure-compensating system		
Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,200 rpm	170 L/m (45 gpm)		
System Relief Pressure (loader and steering)	24 994 kPa (3,625 psi)		
Loader Controls	2-function valve, joystick control or fingertip controls, hydraulic-function enable/disable, optional 3rd- and 4th-function valve from factory, 5th and 6th functions available by field kit		
Steering (conforms to ISO 5010)	Steering-column-mounted, twist-grip shift lever; Quick-Shift button on hydraulic lever		
Type	Power, fully hydraulic		
Articulation Angle	80-deg. arc (40 deg. each direction)		
Turning Radius (measured to centerline of outside tire)	5.0 m (16 ft. 5 in.)		

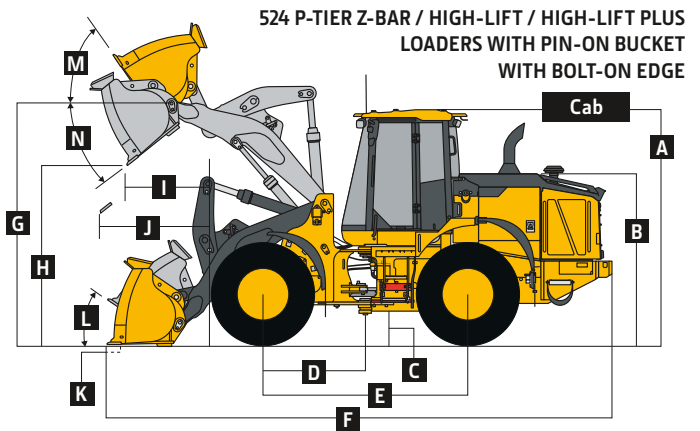
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Hydraulic System/Steering (continued) 524 P-TIER Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS / TOOL CARRIER

Hydraulic Cycle Times	Z-Bar / High-Lift / High-Lift Plus	Tool Carrier
Raise	6.1 sec.	5.8 sec.
Dump	2.2 sec.	2.2 sec.
Lower (power down)	4.3 sec.	4.0 sec.
Total	12.6 sec.	12.0 sec.

Bucket Capacity Range

Bucket Type	
Pin-On	2.1–2.5 m ³ (2.75–3.25 cu. yd.)
Coupler	1.9–4.0 m ³ (2.5–5.25 cu. yd.)

Dimensions and Specifications With Pin-On Bucket With Bolt-On Edge

Dimensions With Bucket With Bolt-On Edge (illustration above right)

	Z-Bar 2.1-m ³ (2.75 cu. yd.)	Z-Bar 2.3-m ³ (3.0 cu. yd.)	High-Lift 2.1-m ³ (2.75 cu. yd.)	High-Lift Plus 2.1-m ³ (2.75 cu. yd.)
A Height to Top of Cab	3.32 m (10 ft. 11 in.)	3.32 m (10 ft. 11 in.)	3.32 m (10 ft. 11 in.)	3.32 m (10 ft. 11 in.)
B Hood Height	2.40 m (7 ft. 11 in.)	2.40 m (7 ft. 11 in.)	2.40 m (7 ft. 11 in.)	2.40 m (7 ft. 11 in.)
C Ground Clearance	450 mm (17.7 in.)	450 mm (17.7 in.)	450 mm (17.7 in.)	450 mm (17.7 in.)
D Length From Centerline to Front Axle	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)
E Wheelbase	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)
F Overall Length, Bucket on Ground	7.43 m (24 ft. 5 in.)	7.52 m (24 ft. 8 in.)	7.87 m (25 ft. 10 in.)	8.16 m (26 ft. 9 in.)
G Height to Hinge Pin, Fully Raised	3.81 m (12 ft. 6 in.)	3.81 m (12 ft. 6 in.)	4.17 m (13 ft. 8 in.)	4.42 m (14 ft. 6 in.)
H Dump Clearance, 45 deg., Full Height	2.73 m (8 ft. 11 in.)	2.68 m (8 ft. 10 in.)	3.10 m (10 ft. 2 in.)	3.39 m (11 ft. 1 in.)
I Reach, 45-deg. Dump, Full Height	1.03 m (3 ft. 5 in.)	1.09 m (3 ft. 7 in.)	1.13 m (3 ft. 8 in.)	1.12 m (3 ft. 8 in.)
J Reach, 45-deg. Dump, 2.13-m (7 ft. 0 in.) Clearance	1.46 m (4 ft. 9 in.)	1.49 m (4 ft. 11 in.)	1.83 m (6 ft. 0 in.)	2.06 m (6 ft. 9 in.)
K Maximum Digging Depth	108 mm (4.3 in.)	114 mm (4.5 in.)	198 mm (7.8 in.)	203 mm (8.0 in.)
L Maximum Rollback at Ground Level	44 deg.	44 deg.	48 deg.	49 deg.
M Maximum Rollback, Boom Fully Raised	60 deg.	60 deg.	60 deg.	61 deg.
N Maximum Bucket Dump Angle, Fully Raised	50 deg.	50 deg.	46 deg.	45 deg.
Loader Clearance Circle, Bucket Carry Position	11.42 m (37 ft. 6 in.)	11.45 m (37 ft. 7 in.)	11.70 m (38 ft. 5 in.)	12.10 m (39 ft. 8 in.)

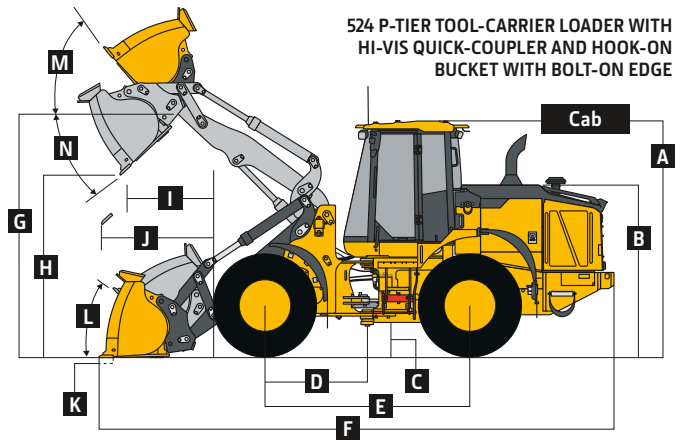
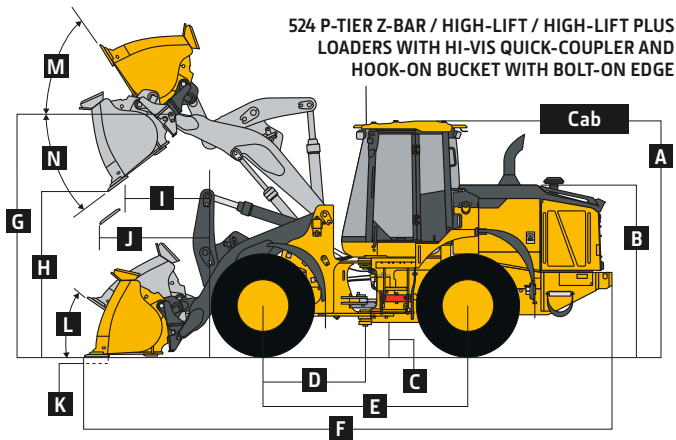
Specifications With Bucket With Bolt-On Edge

Capacity, Heaped	2.1 m ³ (2.75 cu. yd.)	2.3 m ³ (3.0 cu. yd.)	2.1 m ³ (2.75 cu. yd.)	2.1 m ³ (2.75 cu. yd.)
Capacity, Struck	1.7 m ³ (2.26 cu. yd.)	1.9 m ³ (2.53 cu. yd.)	1.7 m ³ (2.26 cu. yd.)	1.7 m ³ (2.26 cu. yd.)
Bucket Weight With Bolt-On Cutting Edge	939 kg (2,070 lb.)	990 kg (2,183 lb.)	939 kg (2,070 lb.)	939 kg (2,070 lb.)
Bucket Width	2.55 m (8 ft. 4 in.)	2.55 m (8 ft. 4 in.)	2.55 m (8 ft. 4 in.)	2.55 m (8 ft. 4 in.)
Breakout Force	10 494 kg (23,135 lb.)	9783 kg (21,568 lb.)	10 383 kg (22,891 lb.)	10 484 kg (23,113 lb.)
Tipping Load, Straight, No Tire Deflection	10 270 kg (22,641 lb.)	10 136 kg (22,346 lb.)	8701 kg (19,182 lb.)	7959 kg (17,547 lb.)
Tipping Load, Straight, With Tire Deflection	9738 kg (21,469 lb.)	9603 kg (21,171 lb.)	8295 kg (18,287 lb.)	7611 kg (16,779 lb.)
Tipping Load, 40-deg. Full Turn, No Tire Deflection	8923 kg (19,672 lb.)	8799 kg (19,398 lb.)	7521 kg (16,581 lb.)	6852 kg (15,106 lb.)
Tipping Load, 40-deg. Full Turn, With Tire Deflection	8241 kg (18,168 lb.)	8121 kg (17,904 lb.)	6993 kg (15,417 lb.)	6396 kg (14,101 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, No Tire Deflection (conforms to ISO 14397-1)*	4462 kg (9,836 lb.)	4400 kg (9,699 lb.)	3761 kg (8,290 lb.)	3426 kg (7,553 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, With Tire Deflection (conforms to ISO 14397-1)*	4121 kg (9,084 lb.)	4061 kg (8,952 lb.)	3497 kg (7,708 lb.)	3198 kg (7,050 lb.)
Operating Weight	12 903 kg (28,446 lb.)	12 954 kg (28,559 lb.)	13 142 kg (28,973 lb.)	13 236 kg (29,180 lb.)

Loader operating information is based on machine with identified linkage and standard equipment, PowerTech PSS 4045 (EPA Final Tier 4/EU Stage V) engine, ROPS cab, rear cast bumper/counterweight, transmission side-frame guards, bottom guards, standard tires, full fuel tank, and 79-kg (175 lb.) operator. This information is affected by changes in tires, ballast, and different attachments.

*Rated operating capacity based on Deere attachments only.

Dimensions and Specifications With Hi-Vis Coupler and Hook-On Bucket With Bolt-On Edge 524 P-TIER Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS / TOOL CARRIER



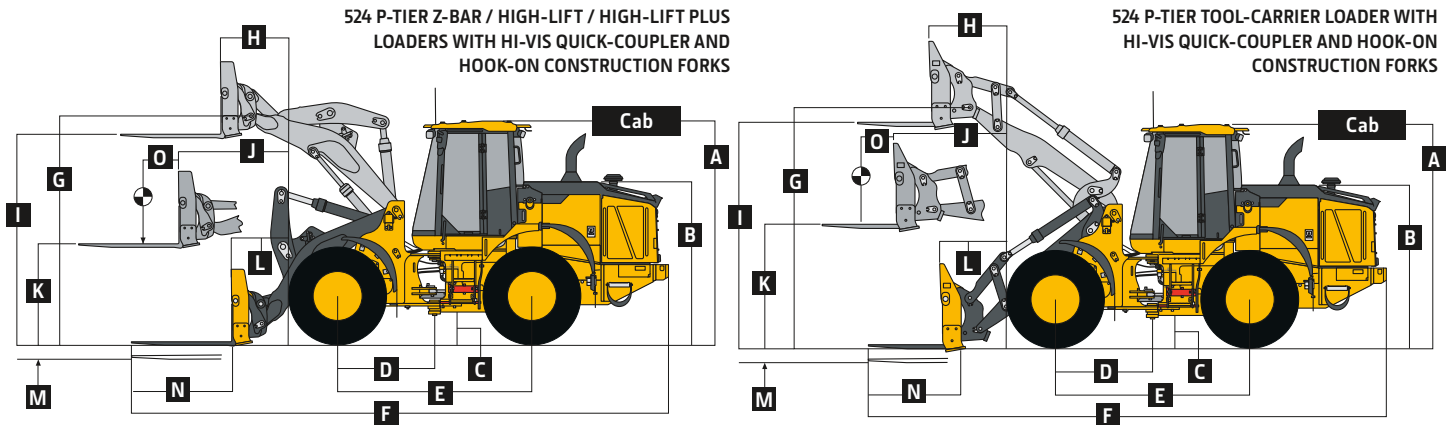
	Z-Bar 2.1-m ³ (2.75 cu. yd.)	Z-Bar 3.1-m ³ (4.0 cu. yd.)	High-Lift 2.1-m ³ (2.75 cu. yd.)	High-Lift 3.1-m ³ (4.0 cu. yd.)	High-Lift Plus 1.9-m ³ (2.5 cu. yd.)	High-Lift Plus 3.1-m ³ (4.0 cu. yd.)	Tool Carrier 2.1-m ³ (2.75 cu. yd.)	Tool Carrier 3.1-m ³ (4.0 cu. yd.)
Dimensions With Bucket With Bolt-On Edge (illustrations above)	<i>enhanced performance</i>	<i>light material</i>	<i>enhanced performance</i>	<i>light material</i>	<i>enhanced performance</i>	<i>light material</i>	<i>enhanced performance</i>	<i>light material</i>
A Height to Top of Cab	3.32 m (10 ft. 11 in.)	3.32 m (10 ft. 11 in.)	3.32 m (10 ft. 11 in.)	3.32 m (10 ft. 11 in.)	3.32 m (10 ft. 11 in.)	3.32 m (10 ft. 11 in.)	3.32 m (10 ft. 11 in.)	3.32 m (10 ft. 11 in.)
B Hood Height	2.40 m (7 ft. 11 in.)	2.40 m (7 ft. 11 in.)	2.40 m (7 ft. 11 in.)	2.40 m (7 ft. 11 in.)	2.40 m (7 ft. 11 in.)	2.40 m (7 ft. 11 in.)	2.40 m (7 ft. 11 in.)	2.40 m (7 ft. 11 in.)
C Ground Clearance	450 mm (17.7 in.)	450 mm (17.7 in.)	450 mm (17.7 in.)	450 mm (17.7 in.)	450 mm (17.7 in.)	450 mm (17.7 in.)	450 mm (17.7 in.)	450 mm (17.7 in.)
D Length From Centerline to Front Axle	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)
E Wheelbase	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)
F Overall Length, Bucket on Ground	7.58 m (24 ft. 10 in.)	7.65 m (25 ft. 1 in.)	8.02 m (26 ft. 4 in.)	8.08 m (26 ft. 6 in.)	8.22 m (27 ft. 0 in.)	8.37 m (27 ft. 6 in.)	7.77 m (25 ft. 6 in.)	7.80 m (25 ft. 7 in.)
G Height to Hinge Pin, Fully Raised	3.81 m (12 ft. 6 in.)	3.81 m (12 ft. 6 in.)	4.17 m (13 ft. 8 in.)	4.17 m (13 ft. 8 in.)	4.42 m (14 ft. 6 in.)	4.42 m (14 ft. 6 in.)	3.89 m (12 ft. 9 in.)	3.89 m (12 ft. 9 in.)
H Dump Clearance, 45 deg., Full Height	2.64 m (8 ft. 8 in.)	2.60 m (8 ft. 6 in.)	3.00 m (9 ft. 10 in.)	2.96 m (9 ft. 9 in.)	3.35 m (11 ft. 0 in.)	3.21 m (10 ft. 6 in.)	2.79 m (9 ft. 2 in.)	2.70 m (8 ft. 10 in.)
I Reach, 45-deg. Dump, Full Height	1.14 m (3 ft. 9 in.)	1.19 m (3 ft. 11 in.)	1.24 m (4 ft. 1 in.)	1.29 m (4 ft. 3 in.)	1.17 m (3 ft. 10 in.)	1.33 m (4 ft. 4 in.)	1.34 m (4 ft. 5 in.)	1.44 m (4 ft. 9 in.)
J Reach, 45-deg. Dump, 2.13-m (7 ft. 0 in.) Clearance	1.52 m (5 ft. 0 in.)	1.55 m (5 ft. 1 in.)	1.89 m (6 ft. 2 in.)	1.92 m (6 ft. 4 in.)	2.09 m (6 ft. 10 in.)	2.16 m (7 ft. 1 in.)	1.81 m (5 ft. 11 in.)	1.86 m (6 ft. 1 in.)
K Maximum Digging Depth	114 mm (4.5 in.)	111 mm (4.4 in.)	205 mm (8.1 in.)	202 mm (8.0 in.)	201 mm (7.9 in.)	207 mm (8.1 in.)	100 mm (3.9 in.)	102 mm (4.0 in.)
L Maximum Rollback at Ground Level	44 deg.	44 deg.	48 deg.	48 deg.	49 deg.	49 deg.	50 deg.	50 deg.
M Maximum Rollback, Boom Fully Raised	60 deg.	60 deg.	60 deg.	60 deg.	61 deg.	61 deg.	55 deg.	55 deg.
N Maximum Bucket Dump Angle, Fully Raised	50 deg.	50 deg.	46 deg.	46 deg.	45 deg.	45 deg.	46 deg.	46 deg.
Loader Clearance Circle, Bucket Carry Position	11.47 m (37 ft. 8 in.)	11.81 m (38 ft. 9 in.)	11.75 m (38 ft. 7 in.)	12.08 m (39 ft. 8 in.)	12.14 m (39 ft. 10 in.)	12.52 m (41 ft. 1 in.)	11.24 m (36 ft. 11 in.)	12.04 m (39 ft. 6 in.)
Specifications With Bucket With Bolt-On Edge								
Capacity, Heaped	2.1 m ³ (2.75 cu. yd.)	3.1 m ³ (4.0 cu. yd.)	2.1 m ³ (2.75 cu. yd.)	3.1 m ³ (4.0 cu. yd.)	1.9 m ³ (2.5 cu. yd.)	3.1 m ³ (4.0 cu. yd.)	2.1 m ³ (2.75 cu. yd.)	3.1 m ³ (4.0 cu. yd.)
Capacity, Struck	1.7 m ³ (2.26 cu. yd.)	2.6 m ³ (3.4 cu. yd.)	1.7 m ³ (2.26 cu. yd.)	2.6 m ³ (3.4 cu. yd.)	1.5 m ³ (1.96 cu. yd.)	2.6 m ³ (3.4 cu. yd.)	1.7 m ³ (2.26 cu. yd.)	2.6 m ³ (3.4 cu. yd.)
Bucket Weight With Bolt-On Cutting Edge	900 kg (1,984 lb.)	1234 kg (2,721 lb.)	900 kg (1,984 lb.)	1234 kg (2,721 lb.)	840 kg (1,852 lb.)	1234 kg (2,721 lb.)	900 kg (1,984 lb.)	1234 kg (2,721 lb.)
Bucket Width	2.55 m (8 ft. 4 in.)	2.89 m (9 ft. 6 in.)	2.55 m (8 ft. 4 in.)	2.89 m (9 ft. 6 in.)	2.55 m (8 ft. 4 in.)	2.89 m (9 ft. 6 in.)	2.55 m (8 ft. 4 in.)	2.89 m (9 ft. 6 in.)
Breakout Force	9178 kg (20,234 lb.)	8522 kg (18,788 lb.)	9080 kg (20,018 lb.)	8428 kg (18,581 lb.)	9889 kg (21,801 lb.)	8512 kg (18,766 lb.)	9681 kg (21,343 lb.)	9099 kg (20,060 lb.)
Tipping Load, Straight, No Tire Deflection	9453 kg (20,840 lb.)	9127 kg (20,122 lb.)	7999 kg (17,635 lb.)	7663 kg (16,894 lb.)	7416 kg (16,349 lb.)	6971 kg (15,368 lb.)	8943 kg (19,716 lb.)	8559 kg (18,869 lb.)
Tipping Load, Straight, With Tire Deflection	8949 kg (19,729 lb.)	8598 kg (18,955 lb.)	7617 kg (16,793 lb.)	7254 kg (15,992 lb.)	7077 kg (15,602 lb.)	6615 kg (14,584 lb.)	8406 kg (18,532 lb.)	8046 kg (17,738 lb.)
Tipping Load, 40-deg. Full Turn, No Tire Deflection	8165 kg (18,001 lb.)	7832 kg (17,267 lb.)	6862 kg (15,128 lb.)	6522 kg (14,379 lb.)	6340 kg (13,977 lb.)	5897 kg (13,001 lb.)	7750 kg (17,086 lb.)	7355 kg (16,215 lb.)
Tipping Load, 40-deg. Full Turn, With Tire Deflection	7521 kg (16,581 lb.)	7158 kg (15,781 lb.)	6357 kg (14,015 lb.)	6003 kg (13,234 lb.)	5910 kg (13,029 lb.)	5442 kg (11,998 lb.)	7053 kg (15,549 lb.)	6693 kg (14,756 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, No Tire Deflection (conforms to ISO 14397-1)*	4083 kg (9,000 lb.)	3916 kg (8,633 lb.)	3431 kg (7,564 lb.)	3261 kg (7,189 lb.)	3170 kg (6,989 lb.)	2949 kg (6,500 lb.)	3875 kg (8,543 lb.)	3678 kg (8,109 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, With Tire Deflection (conforms to ISO 14397-1)*	3761 kg (8,290 lb.)	3579 kg (7,890 lb.)	3179 kg (7,007 lb.)	3002 kg (6,617 lb.)	2955 kg (6,515 lb.)	2721 kg (5,999 lb.)	3527 kg (7,776 lb.)	3347 kg (7,379 lb.)
Operating Weight	13 313 kg (29,350 lb.)	13 679 kg (30,157 lb.)	13 553 kg (29,879 lb.)	13 918 kg (30,684 lb.)	13 589 kg (29,959 lb.)	14 013 kg (30,893 lb.)	13 221 kg (29,147 lb.)	13 563 kg (29,901 lb.)

Loader operating information is based on machine with identified linkage and standard equipment, PowerTech PSS 4045 (EPA Final Tier 4/EU Stage V) engine, ROPS cab, rear cast bumper/counterweight, transmission side-frame guards, bottom guards, standard tires, full fuel tank, and 79-kg (175 lb.) operator. This information is affected by changes in tires, ballast, and different attachments. / *Rated operating capacity based on Deere attachments only.

While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries.

524 P-TIER

Dimensions and Specifications With Hi-Vis Coupler and Hook-On Construction Forks 524 P-TIER Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS / TOOL CARRIER



	Z-Bar	Z-Bar	High-Lift	High-Lift	High-Lift Plus	High-Lift Plus	Tool Carrier	Tool Carrier
	1.22-m (48 in.)	1.52-m (60 in.)	1.22-m (48 in.)	1.52-m (60 in.)	1.22-m (48 in.)	1.52-m (60 in.)	1.22-m (48 in.)	1.52-m (60 in.)
Dimensions With Forks (illustrations above)	<i>tine length</i>	<i>tine length</i>	<i>tine length</i>	<i>tine length</i>	<i>tine length</i>	<i>tine length</i>	<i>tine length</i>	<i>tine length</i>
A Height to Top of Cab	3.32 m (10 ft. 11 in.)	3.32 m (10 ft. 11 in.)	3.32 m (10 ft. 11 in.)	3.32 m (10 ft. 11 in.)	3.32 m (10 ft. 11 in.)	3.32 m (10 ft. 11 in.)	3.32 m (10 ft. 11 in.)	3.32 m (10 ft. 11 in.)
B Hood Height	2.40 m (7 ft. 11 in.)	2.40 m (7 ft. 11 in.)	2.40 m (7 ft. 11 in.)	2.40 m (7 ft. 11 in.)	2.40 m (7 ft. 11 in.)	2.40 m (7 ft. 11 in.)	2.40 m (7 ft. 11 in.)	2.40 m (7 ft. 11 in.)
C Ground Clearance	450 mm (17.7 in.)	450 mm (17.7 in.)	450 mm (17.7 in.)	450 mm (17.7 in.)	450 mm (17.7 in.)	450 mm (17.7 in.)	450 mm (17.7 in.)	450 mm (17.7 in.)
D Length From Centerline to Front Axle	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)
E Wheelbase	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)
F Overall Length, Forks on Ground	7.92 m (26 ft. 0 in.)	8.23 m (27 ft. 0 in.)	8.36 m (27 ft. 5 in.)	8.66 m (28 ft. 5 in.)	8.65 m (28 ft. 5 in.)	8.96 m (29 ft. 5 in.)	8.13 m (26 ft. 8 in.)	8.44 m (27 ft. 8 in.)
G Height to Hinge Pin, Fully Raised	3.81 m (12 ft. 6 in.)	3.81 m (12 ft. 6 in.)	4.17 m (13 ft. 8 in.)	4.17 m (13 ft. 8 in.)	4.42 m (14 ft. 6 in.)	4.42 m (14 ft. 6 in.)	3.89 m (12 ft. 9 in.)	3.89 m (12 ft. 9 in.)
H Reach, Fully Raised	0.82 m (32 in.)	0.82 m (32 in.)	0.92 m (3 ft. 0 in.)	0.92 m (3 ft. 0 in.)	0.96 m (3 ft. 2 in.)	0.96 m (3 ft. 2 in.)	1.08 m (3 ft. 7 in.)	1.08 m (3 ft. 7 in.)
I Fork Height, Fully Raised	3.48 m (11 ft. 5 in.)	3.48 m (11 ft. 5 in.)	3.84 m (12 ft. 7 in.)	3.84 m (12 ft. 7 in.)	4.09 m (13 ft. 5 in.)	4.09 m (13 ft. 5 in.)	3.66 m (12 ft. 0 in.)	3.66 m (12 ft. 0 in.)
J Maximum Reach, Fork Level	1.56 m (5 ft. 1 in.)	1.56 m (5 ft. 1 in.)	1.89 m (6 ft. 2 in.)	1.89 m (6 ft. 2 in.)	2.10 m (6 ft. 11 in.)	2.10 m (6 ft. 11 in.)	1.81 m (5 ft. 11 in.)	1.81 m (5 ft. 11 in.)
K Fork Height, Maximum Reach	1.65 m (5 ft. 5 in.)	1.65 m (5 ft. 5 in.)	1.66 m (5 ft. 5 in.)	1.66 m (5 ft. 5 in.)	1.66 m (5 ft. 5 in.)	1.66 m (5 ft. 5 in.)	1.83 m (6 ft. 0 in.)	1.83 m (6 ft. 0 in.)
L Reach, Ground Level	0.99 m (3 ft. 3 in.)	0.99 m (3 ft. 3 in.)	1.40 m (4 ft. 7 in.)	1.40 m (4 ft. 7 in.)	1.65 m (5 ft. 5 in.)	1.65 m (5 ft. 5 in.)	1.17 m (3 ft. 10 in.)	1.17 m (3 ft. 10 in.)
M Depth Below Ground	99 mm (4 in.)	99 mm (4 in.)	189 mm (7 in.)	189 mm (7 in.)	195 mm (8 in.)	195 mm (8 in.)	154 mm (6 in.)	154 mm (6 in.)
N Tine Length	1.22 m (48 in.)	1.52 m (60 in.)	1.22 m (48 in.)	1.52 m (60 in.)	1.22 m (48 in.)	1.52 m (60 in.)	1.22 m (48 in.)	1.52 m (60 in.)
O Load Position, 50% Tine Length	0.61 m (24 in.)	0.76 m (30 in.)	0.61 m (24 in.)	0.76 m (30 in.)	0.61 m (24 in.)	0.76 m (30 in.)	0.61 m (24 in.)	0.76 m (30 in.)

Specifications With Forks

Tipping Load, Straight, No Tire Deflection	6964 kg (15,353 lb.)	6550 kg (14,440 lb.)	6101 kg (13,450 lb.)	5760 kg (12,699 lb.)	5662 kg (12,483 lb.)	5355 kg (11,806 lb.)	6820 kg (15,036 lb.)	6440 kg (14,198 lb.)
Tipping Load, Straight, With Tire Deflection	6771 kg (14,927 lb.)	6369 kg (14,041 lb.)	5946 kg (13,109 lb.)	5619 kg (12,388 lb.)	5499 kg (12,123 lb.)	5205 kg (11,475 lb.)	6411 kg (14,134 lb.)	6054 kg (13,347 lb.)
Tipping Load, 40-deg. Full Turn, No Tire Deflection	6013 kg (13,256 lb.)	5645 kg (12,445 lb.)	5233 kg (11,537 lb.)	4931 kg (10,871 lb.)	4833 kg (10,655 lb.)	4561 kg (10,055 lb.)	5977 kg (13,177 lb.)	5634 kg (12,421 lb.)
Tipping Load, 40-deg. Full Turn, With Tire Deflection	5754 kg (12,685 lb.)	5406 kg (11,918 lb.)	5013 kg (11,052 lb.)	4722 kg (10,410 lb.)	4638 kg (10,225 lb.)	4374 kg (9,643 lb.)	5439 kg (11,991 lb.)	5127 kg (11,303 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, With Tire Deflection (conforms to ISO 14397-1 and SAE J1197)*	2877 kg (6,343 lb.)	2703 kg (5,959 lb.)	2507 kg (5,527 lb.)	2361 kg (5,205 lb.)	2319 kg (5,113 lb.)	2187 kg (4,822 lb.)	2720 kg (5,997 lb.)	2564 kg (5,653 lb.)
Rated Operating Load, Rough Terrain, 60% Full-Turn Tipping Load, With Tire Deflection (conforms to EN474-3)*	3452 kg (7,610 lb.)	3244 kg (7,152 lb.)	3008 kg (6,631 lb.)	2833 kg (6,246 lb.)	2783 kg (6,135 lb.)	2624 kg (5,785 lb.)	3263 kg (7,194 lb.)	3076 kg (6,781 lb.)
Rated Operating Load, Firm and Level Ground, 80% Full-Turn Tipping Load, With Tire Deflection (conforms to EN474-3)*	4603 kg (10,148 lb.)	4325 kg (9,535 lb.)	4010 kg (8,841 lb.)	3778 kg (8,329 lb.)	3710 kg (8,179 lb.)	3499 kg (7,714 lb.)	4351 kg (9,592 lb.)	4102 kg (9,043 lb.)
Operating Weight	13 244 kg (29,198 lb.)	13 304 kg (29,330 lb.)	13 483 kg (29,725 lb.)	13 544 kg (29,859 lb.)	13 578 kg (29,934 lb.)	13 638 kg (30,067 lb.)	13 159 kg (29,011 lb.)	13 219 kg (29,143 lb.)

Loader operating information is based on machine with identified linkage and standard equipment, PowerTech PSS 4045 (EPA Final Tier 4/EU Stage V) engine, ROPS cab, rear cast bumper/counterweight, transmission side-frame guards, bottom guards, standard tires, full fuel tank, and 79-kg (175 lb.) operator. This information is affected by changes in tires, ballast, and different attachments.

*Rated operating capacity based on Deere attachments only.

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While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries.

Adjustments to Operating Weights and Tipping Loads With Buckets

524 P-TIER Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS / TOOL CARRIER

Adjustments to operating weights, tipping loads, and tires are based on Z-Bar machine with pin-on 2.1-m³ (2.75 cu. yd.) enhanced-performance bucket with bolt-on cutting edge, ROPS cab, rear cast bumper/counterweight, transmission side-frame guards, bottom guards, standard tires, full fuel tank, and 79-kg (175 lb.) operator*

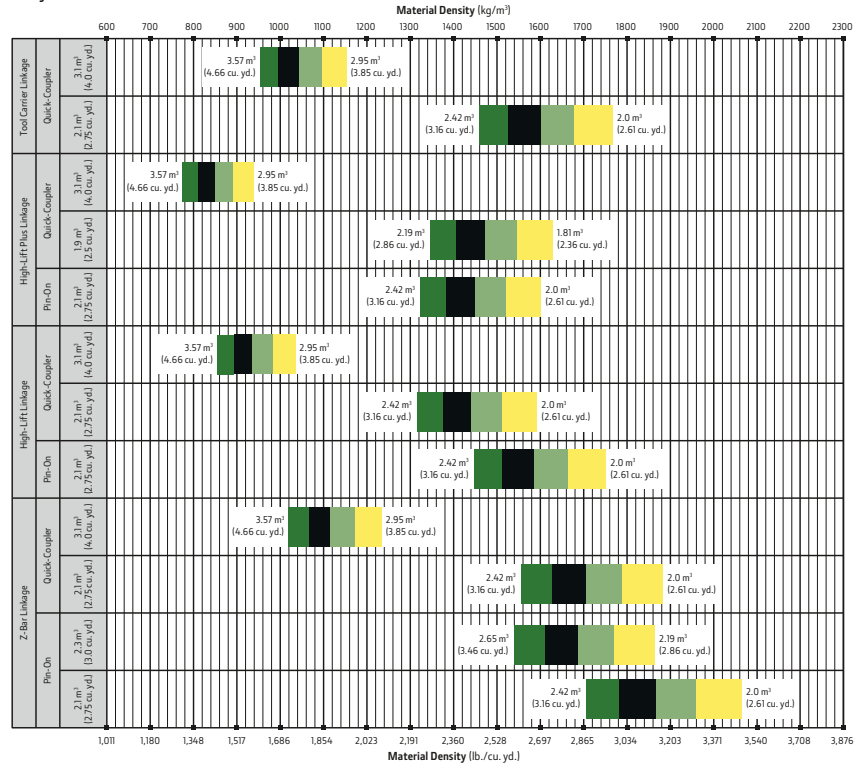
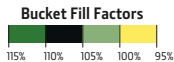
Add (+) or deduct (–) kg (lb.) as

indicated for loaders with 3-piece rims	Operating Weight	Tipping Load, Straight	Tipping Load, 40-deg. Full Turn	Tread Width	Width Over Tires	Vertical Height
Bridgestone 20.5 R 25, 1 Star L-3 VJT	0 kg (0 lb.)	0 kg (0 lb.)	0 kg (0 lb.)	0 mm (0 in.)	0 mm (0 in.)	0 mm (0 in.)
Firestone 20.5-25, 16 PR L-2 SGG	–277 kg (–611 lb.)	–198 kg (–437 lb.)	–174 kg (–384 lb.)	+0 mm (+0 in.)	+7 mm (+0.3 in.)	–64 mm (–2.5 in.)
Continental 20.5 R 25, 1-Star L-3 EM-Master	+131 kg (+289 lb.)	+93 kg (+205 lb.)	+82 kg (+181 lb.)	+0 mm (+0 in.)	+2 mm (+0.1 in.)	–19 mm (–0.7 in.)
CaCl ₂ in 20.5-25, L-3 Rear Tires, 75% Fill	+825 kg (+1,820 lb.)	+1185 kg (+2,613 lb.)	+1045 kg (+2,304 lb.)	N/A	N/A	N/A

*May change based on vehicle configuration, weight, or tire-pressure adjustments.

Bucket Selection Guides

LOOSE MATERIALS	kg/m ³	lb./cu. yd.	LOOSE MATERIALS	kg/m ³	lb./cu. yd.
Chips, pulpwood	288	486	Limestone, coarse, sized	1570	2,646
Cinders (coal, ashes, clinkers)	673	1,134	Limestone, mixed sizes	1682	2,835
Clay and gravel, dry	1602	2,700	Limestone, pulverized or crushed	1362	2,295
Clay, compact, solid	1746	2,943	Sand, damp	2083	3,510
Clay, dry in lump loose	1009	1,701	Sand, dry	1762	2,970
Clay, excavated in water	1282	2,160	Sand, voids, full of water	2083	3,510
Coal, anthracite, broken, loose	865	1,458	Sandstone, quarried	1314	2,214
Coal, bituminous, moderately wet	801	1,350	Shale, broken crushed	1362	2,295
Earth, common loam, dry	1218	2,052	Slag, furnace granulated	1955	3,294
Earth, mud, packed	1843	3,105	Stone or gravel, 37.5 to 87.5-mm (1.5 to 3.5 in.) size	1442	2,430
Granite, broken	1538	2,592	Stone or gravel, 18.75-mm (0.75 in.) size	1602	2,700
Gypsum	2275	3,834			



Additional equipment

Key: ● Standard ▲ Optional or special
See your John Deere dealer for further information.

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P-TIER Engine

- Wet-sleeve cylinder liners
- Programmable auto-idle and auto shutdown
- Selected idle adjustment from 900–1,250 rpm
- Starter excessive-cranking protection
- Automatic engine cool-down timer
- Automatic derating for exceeded system temperatures
- Serpentine drive belt for automatic tensioner
- Electrical fuel-priming pump
- Dual-stage fuel filter and water separator
- 500-hour vertical spin-on oil filter
- ▲ Engine-compartment light
- ▲ Chrome exhaust stack
- Automatic glow plugs for cold start
- ▲ Engine-block heater (recommended for cold starts below –23 deg. C [–10 deg. F])
- ▲ Centrifugal engine air pre-cleaner
- ▲ Throttle lock

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P-TIER Powertrain

- Clutch cutoff with 4 operator settings: Automatic, level ground, small slope, or steep slope
- Programmable maximum high gear
- Clutch calibration engaged from monitor
- 2,000-hour vertical spin-on transmission filter
- Transmission fill tube and sight gauge
- Transmission diagnostic ports
- 5-speed transmission with non-lockup torque converter
- Front locking differential
- ▲ Rear locking differential
- Brake retractors and adjusters
- ▲ Automatic differential lock
- Axle oil temperature sensing
- ▲ Wheel-spin control
- Quad-Cool™ Cooling System
- Heavy-duty, trash-resistant radiator and high-ambient cooling package
- 2-side access to all coolers

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P-TIER Quad-Cool Cooling System (continued)

- Isolated from engine compartment
- Engine radiator
- Engine oil cooler
- Hydraulic oil cooler (oil to air)
- Transmission oil cooler (oil to air)
- Charge air cooler (air to air)
- Fuel cooler
- Coolant recovery tank
- Antifreeze, –37 deg. C (–34 deg. F)
- Cool-on-demand, hydraulically driven, swing-out fan
- Enclosed fan safety guard
- ▲ Automatic reversing fan drive
- ▲ Axle and service-brake coolers
- Hydraulics
- Electrohydraulic (EH) controls with soft stops and adjustable settings
- In-cab adjustable automatic return-to-dig bucket positioner

Additional equipment *(cont.)*

Key: ● Standard ▲ Optional or special
See your John Deere dealer for further information.

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P-TIER	Hydraulics <i>(continued)</i>
●	In-cab adjustable automatic boom-height kickout/return to carry
●	Reservoir with sight gauge and fill strainer
●	Hydraulic diagnostic ports
●	4,000-hour in-tank filter
●	2 function — joystick with F-N-R
▲	2 function — 2-lever fingertip controls and steering column F-N-R
▲	3 function — joystick with F-N-R and integrated 3rd-function roller
▲	3 function — 3-lever fingertip controls and steering column F-N-R
▲	4 function — joystick with F-N-R and integrated 3rd/4th-function rollers
●	Programmable multifunction buttons (2)
●	Adjustable and continuous hydraulic-flow settings
●	Programmable attachment settings
▲	Ride control, automatic with monitor-adjustable speed settings
▲	Hydraulic control system for quick-coupler locking pins
▲	Hydra™ XR cold-temperature hydraulic fluid recommended below -25 deg. C (-13 deg. F)
	Steering Systems
●	Conventional steering wheel with spinner knob
▲	Secondary steering
	Electrical
●	Solid-state electrical power-distribution system
●	Lockable master electrical-disconnect switch
●	Battery-terminal safety covers
●	By-pass start safety cover at starter
●	Remote jump-start access in battery box
●	Pre-wired for beacon/strobe light
●	Lights: Halogen driving lights with guards (2) / Front (4), rear cab (2), and rear grille (2) work lights / LED front turn signals and flashers / LED stop- and taillights
▲	Premium LED light package (all exterior lights are heavy-duty LED)
●	Programmable courtesy lights
●	Horn, electric
●	Reverse warning alarm
●	Multifunction/multi-language 178-mm (7 in.) LCD color monitor includes: Digital instruments — Analog display (hydraulic oil temperature, engine coolant temperature, transmission oil temperature, and engine oil pressure) / Digital display (engine rpm, transmission gear/direction indicator, hour meter, fuel level, diesel exhaust fluid (DEF) level, speedometer, odometer, and average fuel consumption)
▲	Multifunction/multi-language 127-mm (5 in.) LCD color monitor includes: Digital instruments — Analog display (hydraulic oil temperature, engine coolant temperature, transmission oil temperature, and engine oil pressure) / Digital display (engine rpm, transmission gear/direction indicator, hour meter, fuel level, DEF level, speedometer, odometer, and average fuel consumption)

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P-TIER	Electrical <i>(continued)</i>
▲	Integrated cycle counter with 5 categories
●	Indicator lights: Standard and selected options / Amber caution and red stop
●	Operator-warning messages
●	Built-in diagnostics: Diagnostic-code details / Sensor values / Calibrations / Individual circuit tester
▲	Electrical corrosion-prevention package
●	Standard AM/FM/Weather-Band (WB) radio with remote auxiliary port
▲	Premium AM/FM/WB radio with Bluetooth®, remote auxiliary port, and remote USB port (premium cab only)
●	24- to 12-volt, 8-amp converter and cab power ports (3)
▲	24- to 12-volt, 15- or 30-amp converter and cab power ports (3)
	Operator's Station
●	Standard cab with air conditioning/heater (ROPS/FOPS Level 1, isolation mounted)
▲	Premium cab with air conditioning/heater (ROPS/FOPS Level 1, isolation mounted)
▲	Automatic temperature control (premium cab only)
●	Rear window defrost vent
●	Keyless start with multiple security modes
●	Sealed-switch module with function indicators
●	Seat with backrest extension, deep foam, fabric cover, and adjustable air suspension
▲	Premium seat with high-wide back- and headrest extension, heated and ventilated, leather/fabric cover, and adjustable heavy-duty air suspension
●	Hydraulic controls integrated to seat
●	High-visibility, bright-orange seat belt, 76 mm (3 in.), with retractor
▲	4-point seat-belt harness
▲	Seat-belt indicator beacon light
●	Cup holder and cup/Thermos® holder with retaining strap
●	Lunch-box/cooler holder with tie-down brackets
●	Coat hook
●	LED dome and reading light
●	Rubber floor mat
●	Dual-tilt steering column
●	Operator's manual storage compartment
●	Outside (2) and inside (1) rearview mirrors
▲	Heated outside mirrors with convex lens
▲	In-cab adjustable heated outside mirrors with convex lens (premium cab only)
●	Left-side operator-station access
●	Fall-arrest system anchor points tested to 2268 kg (5,000 lb.) on front of cab
●	Slip-resistant steps and ergonomic handholds
●	Pull-down front sun visor
●	Front and rear intermittent windshield wipers and washers
▲	Powered cab air pre-cleaner
▲	Beacon bracket only
▲	Beacon bracket with strobe beacon
●	Rearview camera

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P-TIER	Operator's Station <i>(continued)</i>
▲	Rearview camera with radar object-detection system
▲	Dedicated 178-mm (7 in.) rear camera display
▲	Advanced Object Detection
▲	Advanced Vision System
●	Payload scale ready
▲	SmartWeigh™ ready + trial
▲	SmartWeigh
▲	SmartDetect™
▲	SmartDetect™ Digital
▲	Fire extinguisher
	Loader Linkage
●	Z-Bar loader linkage (parallel lift)
▲	High-Lift Z-Bar loader linkage (parallel lift)
▲	High-Lift Plus Z-Bar loader linkage (parallel lift)
▲	Tool Carrier linkage for visibility (parallel lift)
	Buckets and Attachments
▲	Full line of Deere pin-on buckets, coupler buckets, and forks
▲	John Deere hydraulic coupler that accepts JRB-pattern attachments
▲	Hi-Vis hydraulic coupler that accepts Euro-pattern attachments (ISO)
	Overall Vehicle
●	JDLINK™ wireless communication system (available in specific countries; see your dealer for details)
●	NeverGrease™ rear-axle oscillation
●	Front and rear tie-downs
●	Rear cast bumper/counterweight with rear hitch and locking pin
●	Articulation locking bar
●	Loader boom service locking bar
●	40-deg. steering articulation to each side with rubber-cushion stops on frame
●	Vandal protection with lockable engine enclosures, rigid counterweight storage, and filler access for radiator/fuel/DEF/hydraulic transmission
●	Left-side service steps and handholds
▲	Right-side service steps and handrails
▲	Left-side close-mounted steps
●	Storage compartment
●	Fuel-tank fill strainer
●	Heavy-duty fuel-tank guard
●	Ground-level fuel and DEF fill
●	Same-side ground-level daily servicing
●	20.5R25 tires on 3-piece rims
▲	Ag material-handling package
▲	Environmental drains and sample ports for engine, transmission, hydraulic oils, and engine coolant
●	Fenders, front narrow
▲	Fenders, front full width
▲	Fenders, front and rear full width
▲	Fenders, front and rear full width with mud flaps
▲	Less wheels and tires with axle stops
▲	Rims less tires
▲	Transmission side-frame and bottom guards
▲	Lift eyes
▲	License-plate bracket and light

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Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan at test conditions per ISO 9249. No derating is required up to 3050-m (10,000 ft.) altitude. Specifications and design subject to change without notice. Specifications with the exception of bucket capacity are in accordance with all applicable ISO standards. Except where otherwise noted, these specifications are based on a unit with applicable linkage and standard equipment, ROPS cab, rear cast bumper/counterweight, transmission side-frame guards, bottom guards, standard tires, full fuel tank, and 79-kg (175 lb.) operator.



MW524PBU (25-05)



JOHN DEERE