

SEE IT LIKE NEVER BEFORE

New Advanced Vision System includes two digital cameras mounted on the rearview-mirror platforms that integrate with the rearview camera for a single display on a dedicated in-cab monitor. Overlayed within the monitor's rear-camera view, dynamic reversal projected-path lines help operators visualize the loader's anticipated reversal path based on its articulation, for sight lines to people or objects directly within the path.

ABOVE AND BEYOND

MEET THE P-TIER WHEEL LOADERS

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.



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

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. Enhancedperformance buckets with integrated spill guards, curved side cutters, and impressive rollback deliver elevated bucket-fill performance and material retention compared to earlier offerings.

Level up

AutoLevel enables near-perfect parallelism throughout the boomraise-and-lower cycle, letting operators set their desired attachment angle to within ± two degrees.

Precision Construction

From grade management and obstacle detection to product automation features and jobsite intelligence, this suite of construction technology delivers productivity solutions to help you get more done, more efficiently.

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

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. Shared through the onboard monitor, SmartWeigh is easy to calibrate and effortlessly integrates with JDLink™ 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.

On your side

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 hoses has been streamlined.



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.



Have a seat

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



Take control

Operators can easily control up to six functions without letting go of the ergonomically designed joystick. Two industry-exclusive multifunction buttons can each be programmed to handle any of up to 10 functions selected through the monitor, including bucket vibrate and electrohydraulic (EH) Precision mode.



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.



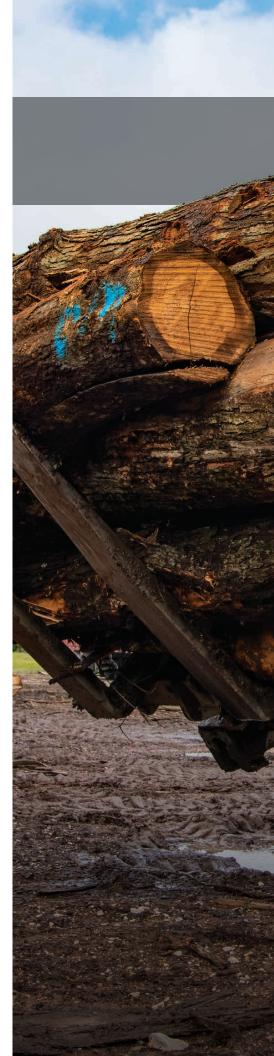
Clear advantage

Improved visibility to the work tool helps reduce spillage as well as cycle and tool-changeover times. It also helps minimize machine damage when working on crowded jobsites or up against walls.



Step it up

Quad-Cool™ places the radiator, air-conditioner condenser, intercooler, and hydraulic, transmission, and optional axle coolers in a unique boxed configuration that's isolated from engine heat, boosting efficiency and durability.







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.

Fraire	524 P-TIER Z-BAR / HIGH-LIFT / HIGH-	LIET DUIS / TOOL CARRIED	
Engine Manufacturer and Model	John Deere PowerTech™ PVS 6068		712 Nm (E)6 ft lb \ at 1 (00 rpm
Non-Road Emission Standard		Gross Peak Torque (ISO 9249) Net Torque Rise	713 Nm (526 ftlb.) at 1,400 rpm 60%
Cylinders	EPA Final Tier 4/EU Stage V 6	Fuel System (electronically controlled)	High-pressure common rail
Valves Per Cylinder	4	Lubrication	- ·
Displacement	6.8 L (414 cu. in.)		Full-flow spin-on filter and integral cooler
•		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,
Gross Peak Power (ISO 9249)	120 kW (161 hp) at 1,800 rpm		restriction indicator in cab monitor
Net Peak Torque (ISO 9249)	683 Nm (504 lbft.) at 1,100 rpm		for service
Cooling Fan Drive	Hydraulically driven, proportionally cont	ralled for oft of sociers	
Electrical	Hydraulically drivell, proportionally cont	Tolled, fall art of coolers	
Electrical System	24 volt with 100-amp alternator (option	al 120 amp alternator	
Batteries (2 – 12 volt)	950 CCA (each)	at 150-attlp atternator)	
	950 CCA (each)		
Transmission System	Countershaft-type PowerShift™		
Type			
Torque Converter Shift Control	Single stage, single phase Electronically modulated, adaptive, load		

Operator Interface		N-R and gear-select lever; Quick-Shift bu	
Shift Modes		hift button with 2 selectable modes: kick-	down or kick-up/down; and 4 clutch
	cutoff settings		
Marrian Travel Carada	Standard 5-Speed		
Maximum Travel Speeds (with 20.5 R 25 tires)	Familiand	Daviana	
	Forward 5.6 km/h (3.5 mph)	Reverse 5.9 km/h (3.6 mph)	
Range 1		11.6 km/h (7.2 mph)	
Range 2	11.0 km/h (6.8 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	al rear — standard; dual locking front and	
Differentials	Hydraillic locking front with convention	ai rear — standard, dilai lockind tront and	
		arrear standard, ddarrocking front and	real — optional
Rear Axle Oscillation, Stop to Stop	24 deg. (12 deg. each direction)	arrear standard, addrioeking front and	reai — optional
Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires)		arrear standard, add rocking from the	теан — Оршонан
Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Brakes (conform to ISO 3450)	24 deg. (12 deg. each direction)		·
Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Brakes (conform to ISO 3450) Service	24 deg. (12 deg. each direction) Hydraulically actuated, spring-retracted	, self-adjusting inboard sun-shaft mounte	ed, oil cooled, single disc
Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking	24 deg. (12 deg. each direction) Hydraulically actuated, spring-retracted Automatic spring applied, hydraulically references.		ed, oil cooled, single disc
Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Brakes (conform to ISO 3450) Service	24 deg. (12 deg. each direction) Hydraulically actuated, spring-retracted Automatic spring applied, hydraulically readjustments)	, self-adjusting inboard sun-shaft mounto eleased, driveline mounted, sealed wet m	ed, oil cooled, single disc
Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 10 for complete tire	24 deg. (12 deg. each direction) Hydraulically actuated, spring-retracted Automatic spring applied, hydraulically readjustments) Tread Width	, self-adjusting inboard sun-shaft mounte eleased, driveline mounted, sealed wet m Width Over Tires	ed, oil cooled, single disc
Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 10 for complete tire Michelin 20.5 R 25, 1 Star L-3 XHA2	24 deg. (12 deg. each direction) Hydraulically actuated, spring-retracted Automatic spring applied, hydraulically readjustments)	, self-adjusting inboard sun-shaft mounto eleased, driveline mounted, sealed wet m	ed, oil cooled, single disc
Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 10 for complete tire Michelin 20.5 R 25, 1 Star L-3 XHA2 Serviceability	24 deg. (12 deg. each direction) Hydraulically actuated, spring-retracted Automatic spring applied, hydraulically readjustments) Tread Width	, self-adjusting inboard sun-shaft mounte eleased, driveline mounted, sealed wet m Width Over Tires 2546 mm (100.2 in.)	ed, oil cooled, single disc
Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 10 for complete tire Michelin 20.5 R 25, 1 Star L-3 XHA2 Serviceability Refill Capacities	24 deg. (12 deg. each direction) Hydraulically actuated, spring-retracted Automatic spring applied, hydraulically readjustments) Tread Width 1952 mm (76.8 in.)	, self-adjusting inboard sun-shaft mounte eleased, driveline mounted, sealed wet m Width Over Tires 2546 mm (100.2 in.)	ed, oil cooled, single disc
Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 10 for complete tire) Michelin 20.5 R 25, 1 Star L-3 XHA2 Serviceability Refill Capacities Fuel Tank (with lockable cap)	24 deg. (12 deg. each direction) Hydraulically actuated, spring-retracted Automatic spring applied, hydraulically readjustments) Tread Width 1952 mm (76.8 in.)	, self-adjusting inboard sun-shaft mounte eleased, driveline mounted, sealed wet m Width Over Tires 2546 mm (100.2 in.) Refill Capacities (continued) Axle Oil (each)	ed, oil cooled, single disc ulti disc
Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 10 for complete tire) Michelin 20.5 R 25, 1 Star L-3 XHA2 Serviceability Refill Capacities Fuel Tank (with lockable cap) Cooling System	24 deg. (12 deg. each direction) Hydraulically actuated, spring-retracted Automatic spring applied, hydraulically re adjustments) Tread Width 1952 mm (76.8 in.) 220 L (58 gal.) 29.9 L (31.6 qt.)	, self-adjusting inboard sun-shaft mounte eleased, driveline mounted, sealed wet m Width Over Tires 2546 mm (100.2 in.) Refill Capacities (continued) Axle Oil (each) Front	ed, oil cooled, single disc ulti disc 16.6 L (17.5 qt.)
Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 10 for complete tire) Michelin 20.5 R 25, 1 Star L-3 XHA2 Serviceability Refill Capacities Fuel Tank (with lockable cap) Cooling System Diesel Exhaust Fluid (DEF)	24 deg. (12 deg. each direction) Hydraulically actuated, spring-retracted Automatic spring applied, hydraulically re adjustments) Tread Width 1952 mm (76.8 in.) 220 L (58 gal.) 29.9 L (31.6 qt.) 15.6 L (16.5 qt.)	, self-adjusting inboard sun-shaft mounte eleased, driveline mounted, sealed wet m Width Over Tires 2546 mm (100.2 in.) Refill Capacities (continued) Axle Oil (each) Front Rear	ed, oil cooled, single disc ulti disc 16.6 L (17.5 qt.) 18 L (19 qt.)
Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 10 for complete tire) Michelin 20.5 R 25, 1 Star L-3 XHA2 Serviceability Refill Capacities Fuel Tank (with lockable cap) Cooling System Diesel Exhaust Fluid (DEF) Engine Oil With Vertical Spin-On Filter	24 deg. (12 deg. each direction) Hydraulically actuated, spring-retracted Automatic spring applied, hydraulically readjustments) Tread Width 1952 mm (76.8 in.) 220 L (58 gal.) 29.9 L (31.6 qt.) 15.6 L (16.5 qt.) 19.5 L (20.6 qt.)	, self-adjusting inboard sun-shaft mountereleased, driveline mounted, sealed wet mount	ed, oil cooled, single disc ulti disc 16.6 L (17.5 qt.) 18 L (19 qt.) 82.1 L (21.7 gal.)
Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 10 for complete tire) Michelin 20.5 R 25, 1 Star L-3 XHA2 Serviceability Refill Capacities Fuel Tank (with lockable cap) Cooling System Diesel Exhaust Fluid (DEF) Engine Oil With Vertical Spin-On Filter Transmission Reservoir With Vertical	24 deg. (12 deg. each direction) Hydraulically actuated, spring-retracted Automatic spring applied, hydraulically re adjustments) Tread Width 1952 mm (76.8 in.) 220 L (58 gal.) 29.9 L (31.6 qt.) 15.6 L (16.5 qt.)	, self-adjusting inboard sun-shaft mounte eleased, driveline mounted, sealed wet m Width Over Tires 2546 mm (100.2 in.) Refill Capacities (continued) Axle Oil (each) Front Rear	ed, oil cooled, single disc ulti disc 16.6 L (17.5 qt.) 18 L (19 qt.)
Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 10 for complete tire) Michelin 20.5 R 25, 1 Star L-3 XHA2 Serviceability Refill Capacities Fuel Tank (with lockable cap) Cooling System Diesel Exhaust Fluid (DEF) Engine Oil With Vertical Spin-On Filter Transmission Reservoir With Vertical Filter	24 deg. (12 deg. each direction) Hydraulically actuated, spring-retracted Automatic spring applied, hydraulically readjustments) Tread Width 1952 mm (76.8 in.) 220 L (58 gal.) 29.9 L (31.6 qt.) 15.6 L (16.5 qt.) 19.5 L (20.6 qt.)	, self-adjusting inboard sun-shaft mountereleased, driveline mounted, sealed wet mount	ed, oil cooled, single disc ulti disc 16.6 L (17.5 qt.) 18 L (19 qt.) 82.1 L (21.7 gal.)
Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 10 for complete tire) Michelin 20.5 R 25, 1 Star L-3 XHA2 Serviceability Refill Capacities Fuel Tank (with lockable cap) Cooling System Diesel Exhaust Fluid (DEF) Engine Oil With Vertical Spin-On Filter Transmission Reservoir With Vertical Filter Hydraulic System/Steering	24 deg. (12 deg. each direction) Hydraulically actuated, spring-retracted Automatic spring applied, hydraulically re adjustments) Tread Width 1952 mm (76.8 in.) 220 L (58 gal.) 29.9 L (31.6 qt.) 15.6 L (16.5 qt.) 19.5 L (20.6 qt.) 21 L (22.2 qt.)	, self-adjusting inboard sun-shaft mounterleased, driveline mounted, sealed wet mounted, and sealed wet mounted, sealed wet mounted, sealed wet mounted, and sealed wet mounted, sealed we	ed, oil cooled, single disc ulti disc 16.6 L (17.5 qt.) 18 L (19 qt.) 82.1 L (21.7 gal.) 0.3 L (10 oz.)
Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 10 for complete tire) Michelin 20.5 R 25, 1 Star L-3 XHA2 Serviceability Refill Capacities Fuel Tank (with lockable cap) Cooling System Diesel Exhaust Fluid (DEF) Engine Oil With Vertical Spin-On Filter Transmission Reservoir With Vertical Filter Hydraulic System/Steering Pump (loader and steering)	Hydraulically actuated, spring-retracted Automatic spring applied, hydraulically readjustments) Tread Width 1952 mm (76.8 in.) 220 L (58 gal.) 29.9 L (31.6 qt.) 15.6 L (16.5 qt.) 19.5 L (20.6 qt.) 21 L (22.2 qt.) Variable-displacement, axial-piston pum	, self-adjusting inboard sun-shaft mountereleased, driveline mounted, sealed wet mount	ed, oil cooled, single disc ulti disc 16.6 L (17.5 qt.) 18 L (19 qt.) 82.1 L (21.7 gal.) 0.3 L (10 oz.)
Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 10 for complete tire) Michelin 20.5 R 25, 1 Star L-3 XHA2 Serviceability Refill Capacities Fuel Tank (with lockable cap) Cooling System Diesel Exhaust Fluid (DEF) Engine Oil With Vertical Spin-On Filter Transmission Reservoir With Vertical Filter Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa	24 deg. (12 deg. each direction) Hydraulically actuated, spring-retracted Automatic spring applied, hydraulically re adjustments) Tread Width 1952 mm (76.8 in.) 220 L (58 gal.) 29.9 L (31.6 qt.) 15.6 L (16.5 qt.) 19.5 L (20.6 qt.) 21 L (22.2 qt.)	, self-adjusting inboard sun-shaft mounterleased, driveline mounted, sealed wet mounted, and sealed wet mounted, sealed wet mounted, sealed wet mounted, and sealed wet mounted, sealed we	ed, oil cooled, single disc ulti disc 16.6 L (17.5 qt.) 18 L (19 qt.) 82.1 L (21.7 gal.) 0.3 L (10 oz.)
Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 10 for complete tire) Michelin 20.5 R 25, 1 Star L-3 XHA2 Serviceability Refill Capacities Fuel Tank (with lockable cap) Cooling System Diesel Exhaust Fluid (DEF) Engine Oil With Vertical Spin-On Filter Transmission Reservoir With Vertical Filter Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,200 rpm	Hydraulically actuated, spring-retracted Automatic spring applied, hydraulically readjustments) Tread Width 1952 mm (76.8 in.) 220 L (58 gal.) 29.9 L (31.6 qt.) 15.6 L (16.5 qt.) 19.5 L (20.6 qt.) 21 L (22.2 qt.) Variable-displacement, axial-piston pum	, self-adjusting inboard sun-shaft mounterleased, driveline mounted, sealed wet mounted, and sealed wet mounted, sealed wet mounted, sealed wet mounted, and sealed wet mounted, sealed we	ed, oil cooled, single disc ulti disc 16.6 L (17.5 qt.) 18 L (19 qt.) 82.1 L (21.7 gal.) 0.3 L (10 oz.)
Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 10 for complete tire Michelin 20.5 R 25, 1 Star L-3 XHA2 Serviceability Refill Capacities Fuel Tank (with lockable cap) Cooling System Diesel Exhaust Fluid (DEF) Engine Oil With Vertical Spin-On Filter Transmission Reservoir With Vertical Filter Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,200 rpm System Relief Pressure (loader and	Hydraulically actuated, spring-retracted Automatic spring applied, hydraulically readjustments) Tread Width 1952 mm (76.8 in.) 220 L (58 gal.) 29.9 L (31.6 qt.) 15.6 L (16.5 qt.) 19.5 L (20.6 qt.) 21 L (22.2 qt.) Variable-displacement, axial-piston pum	, self-adjusting inboard sun-shaft mounterleased, driveline mounted, sealed wet mounted, and sealed wet mounted, sealed wet mounted, sealed wet mounted, and sealed wet mounted, sealed we	ed, oil cooled, single disc ulti disc 16.6 L (17.5 qt.) 18 L (19 qt.) 82.1 L (21.7 gal.) 0.3 L (10 oz.)
Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 10 for complete tire) Michelin 20.5 R 25, 1 Star L-3 XHA2 Serviceability Refill Capacities Fuel Tank (with lockable cap) Cooling System Diesel Exhaust Fluid (DEF) Engine Oil With Vertical Spin-On Filter Transmission Reservoir With Vertical Filter Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,200 rpm	Hydraulically actuated, spring-retracted Automatic spring applied, hydraulically readjustments) Tread Width 1952 mm (76.8 in.) 220 L (58 gal.) 29.9 L (31.6 qt.) 15.6 L (16.5 qt.) 19.5 L (20.6 qt.) 21 L (22.2 qt.) Variable-displacement, axial-piston pum 178 L/m (47 gpm) 24 994 kPa (3,625 psi) 2-function valve, joystick control or fing	, self-adjusting inboard sun-shaft mounterleased, driveline mounted, sealed wet mounted, and sealed wet mounted, sealed wet mounted, sealed wet mounted, and sealed wet mounted, sealed we	ed, oil cooled, single disc ulti disc 16.6 L (17.5 qt.) 18 L (19 qt.) 82.1 L (21.7 gal.) 0.3 L (10 oz.)
Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 10 for complete tire) Michelin 20.5 R 25, 1 Star L-3 XHA2 Serviceability Refill Capacities Fuel Tank (with lockable cap) Cooling System Diesel Exhaust Fluid (DEF) Engine Oil With Vertical Spin-On Filter Transmission Reservoir With Vertical Filter Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,200 rpm System Relief Pressure (loader and steering) Loader Controls	Hydraulically actuated, spring-retracted Automatic spring applied, hydraulically readjustments) Tread Width 1952 mm (76.8 in.) 220 L (58 gal.) 29.9 L (31.6 qt.) 15.6 L (16.5 qt.) 19.5 L (20.6 qt.) 21 L (22.2 qt.) Variable-displacement, axial-piston pum 178 L/m (47 gpm) 24 994 kPa (3,625 psi) 2-function valve, joystick control or fing valve with auxiliary lever	, self-adjusting inboard sun-shaft mounte eleased, driveline mounted, sealed wet m Width Over Tires 2546 mm (100.2 in.) Refill Capacities (continued) Axle Oil (each) Front Rear Hydraulic Reservoir and Filter Park Brake Oil (wet disc) p; closed-center, pressure-compensating	ed, oil cooled, single disc ulti disc 16.6 L (17.5 qt.) 18 L (19 qt.) 82.1 L (21.7 gal.) 0.3 L (10 oz.) system (disable, optional 3rd- and 4th-function
Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 10 for complete tire) Michelin 20.5 R 25, 1 Star L-3 XHA2 Serviceability Refill Capacities Fuel Tank (with lockable cap) Cooling System Diesel Exhaust Fluid (DEF) Engine Oil With Vertical Spin-On Filter Transmission Reservoir With Vertical Filter Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,200 rpm System Relief Pressure (loader and steering) Loader Controls Steering (conforms to ISO 5010)	Hydraulically actuated, spring-retracted Automatic spring applied, hydraulically readjustments) Tread Width 1952 mm (76.8 in.) 220 L (58 gal.) 29.9 L (31.6 qt.) 15.6 L (16.5 qt.) 19.5 L (20.6 qt.) 21 L (22.2 qt.) Variable-displacement, axial-piston pum 178 L/m (47 gpm) 24 994 kPa (3,625 psi) 2-function valve, joystick control or fing valve with auxiliary lever Steering-column-mounted, twist-grip sl	, self-adjusting inboard sun-shaft mounterleased, driveline mounted, sealed wet sealed wet mounted, sealed wet mounted wet sealed wet mounted, sealed wet mounted wet sealed wet mounted, sealed wet mounted wet sealed wet seal	ed, oil cooled, single disc ulti disc 16.6 L (17.5 qt.) 18 L (19 qt.) 82.1 L (21.7 gal.) 0.3 L (10 oz.) system (disable, optional 3rd- and 4th-function
Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 10 for complete tire) Michelin 20.5 R 25, 1 Star L-3 XHA2 Serviceability Refill Capacities Fuel Tank (with lockable cap) Cooling System Diesel Exhaust Fluid (DEF) Engine Oil With Vertical Spin-On Filter Transmission Reservoir With Vertical Filter Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,200 rpm System Relief Pressure (loader and steering) Loader Controls Steering (conforms to ISO 5010) Type	Hydraulically actuated, spring-retracted Automatic spring applied, hydraulically readjustments) Tread Width 1952 mm (76.8 in.) 220 L (58 gal.) 29.9 L (31.6 qt.) 15.6 L (16.5 qt.) 19.5 L (20.6 qt.) 21 L (22.2 qt.) Variable-displacement, axial-piston pum 178 L/m (47 gpm) 24 994 kPa (3,625 psi) 2-function valve, joystick control or fing valve with auxiliary lever Steering-column-mounted, twist-grip sl Power, fully hydraulic	, self-adjusting inboard sun-shaft mounte eleased, driveline mounted, sealed wet m Width Over Tires 2546 mm (100.2 in.) Refill Capacities (continued) Axle Oil (each) Front Rear Hydraulic Reservoir and Filter Park Brake Oil (wet disc) p; closed-center, pressure-compensating	ed, oil cooled, single disc ulti disc 16.6 L (17.5 qt.) 18 L (19 qt.) 82.1 L (21.7 gal.) 0.3 L (10 oz.) system (disable, optional 3rd- and 4th-function
Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 10 for complete tire) Michelin 20.5 R 25, 1 Star L-3 XHA2 Serviceability Refill Capacities Fuel Tank (with lockable cap) Cooling System Diesel Exhaust Fluid (DEF) Engine Oil With Vertical Spin-On Filter Transmission Reservoir With Vertical Filter Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,200 rpm System Relief Pressure (loader and steering) Loader Controls Steering (conforms to ISO 5010) Type Articulation Angle	Hydraulically actuated, spring-retracted Automatic spring applied, hydraulically readjustments) Tread Width 1952 mm (76.8 in.) 220 L (58 gal.) 29.9 L (31.6 qt.) 15.6 L (16.5 qt.) 19.5 L (20.6 qt.) 21 L (22.2 qt.) Variable-displacement, axial-piston pum 178 L/m (47 gpm) 24 994 kPa (3,625 psi) 2-function valve, joystick control or fing valve with auxiliary lever Steering-column-mounted, twist-grip sl Power, fully hydraulic 80-deg. arc (40 deg. each direction)	, self-adjusting inboard sun-shaft mounte eleased, driveline mounted, sealed wet m Width Over Tires 2546 mm (100.2 in.) Refill Capacities (continued) Axle Oil (each) Front Rear Hydraulic Reservoir and Filter Park Brake Oil (wet disc) p; closed-center, pressure-compensating	ed, oil cooled, single disc ulti disc 16.6 L (17.5 qt.) 18 L (19 qt.) 82.1 L (21.7 gal.) 0.3 L (10 oz.) system (disable, optional 3rd- and 4th-function
Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 10 for complete tire) Michelin 20.5 R 25, 1 Star L-3 XHA2 Serviceability Refill Capacities Fuel Tank (with lockable cap) Cooling System Diesel Exhaust Fluid (DEF) Engine Oil With Vertical Spin-On Filter Transmission Reservoir With Vertical Filter Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,200 rpm System Relief Pressure (loader and steering) Loader Controls Steering (conforms to ISO 5010) Type	Hydraulically actuated, spring-retracted Automatic spring applied, hydraulically readjustments) Tread Width 1952 mm (76.8 in.) 220 L (58 gal.) 29.9 L (31.6 qt.) 15.6 L (16.5 qt.) 19.5 L (20.6 qt.) 21 L (22.2 qt.) Variable-displacement, axial-piston pum 178 L/m (47 gpm) 24 994 kPa (3,625 psi) 2-function valve, joystick control or fing valve with auxiliary lever Steering-column-mounted, twist-grip sl Power, fully hydraulic	, self-adjusting inboard sun-shaft mounte eleased, driveline mounted, sealed wet m Width Over Tires 2546 mm (100.2 in.) Refill Capacities (continued) Axle Oil (each) Front Rear Hydraulic Reservoir and Filter Park Brake Oil (wet disc) p; closed-center, pressure-compensating	ed, oil cooled, single disc ulti disc 16.6 L (17.5 qt.) 18 L (19 qt.) 82.1 L (21.7 gal.) 0.3 L (10 oz.) system (disable, optional 3rd- and 4th-function

524 P-TIER WHEEL LOADER SPECIFICATIONS



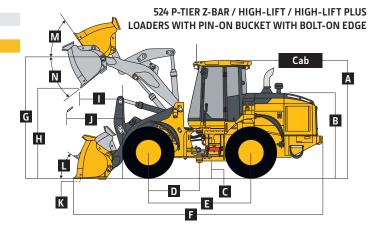
 $While \ general \ information, pictures, and \ descriptions \ are \ provided, some \ illustrations \ and \ text \ may \ include$ $product\ options\ and\ accessories\ NOT\ AVAILABLE\ in\ all\ regions,\ and\ in\ some\ countries\ products\ and\ accessories$ $may\ require\ modifications\ or\ additions\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

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	2.0 sec.	2.2 sec.			
Lower (power down)	4.0 sec.	3.5 sec.			
Total	12.1 sec.	11.5 sec.			
Develope Compositor Dominio					

Bucket Capacity Range

Bucket Type Pin-On 2.1-2.5 m³ (2.75-3.25 cu. yd.) 1.9-3.4 m³ (2.5-4.5 cu. yd.) Coupler

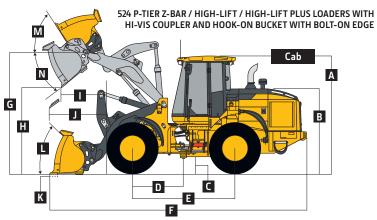
Dimensions and Specifications With Pin-On Bucket With Bolt-On Edge

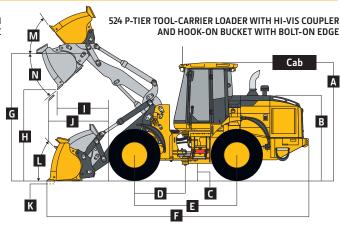


	Z-Bar	Z-Bar	High-Lift	High-Lift Plus
	2.1-m³ (2.75 cu. yd.)	2.3-m³ (3.0 cu. yd.)	2.1-m³ (2.75 cu. yd.)	2.1-m³ (2.75 cu. yd.)
	enhanced	enhanced	enhanced	enhanced
Dimensions With Bucket With Bolt-On Edge (illustration above right)	performance	performance	performance	performance
A Height to Top of Cab	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)
B Hood Height	2.375 m (7 ft. 9 in.)	2.375 m (7 ft. 9 in.)	2.375 m (7 ft. 9 in.)	2.375 m (7 ft. 9 in.)
C Ground Clearance	0.40 m (15.7 in.)	0.40 m (15.7 in.)	0.40 m (15.7 in.)	0.40 m (15.7 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	7.37 m (24 ft. 2 in.)	7.45 m (24 ft. 5 in.)	7.80 m (25 ft. 7 in.)	8.10 m (26 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.)	4.42 m (14 ft. 6 in.)
H Dump Clearance, 45 deg., Full Height	2.78 m (9 ft. 1 in.)	2.72 m (8 ft. 11 in.)	3.14 m (10 ft. 4 in.)	3.39 m (11 ft. 1 in.)
I Reach, 45-deg. Dump, Full Height	0.99 m (3 ft. 3 in.)	1.04 m (3 ft. 5 in.)	1.09 m (3 ft. 7 in.)	1.12 m (3 ft. 8 in.)
J Reach, 45-deg. Dump, 2.13-m (7 ft. 0 in.) Clearance	1.44 m (4 ft. 9 in.)	1.47 m (4 ft. 10 in.)	1.81 m (5 ft. 11 in.)	2.03 m (6 ft. 8 in.)
K Maximum Digging Depth	102 mm (4.0 in.)	108 mm (4.3 in.)	193 mm (7.6 in.)	198 mm (7.8 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	11.40 m (37 ft. 5 in.)	11.42 m (37 ft. 6 in.)	11.68 m (38 ft. 4 in.)	12.08 m (39 ft. 7 in.)
Specifications With Bucket With Bolt-On Edge				
Capacity, Heaped	2.1 m ³ (2.75 cu. yd.)	2.3 m³ (3.0 cu. yd.)	2.1 m³ (2.75 cu. yd.)	2.1 m ³ (2.75 cu. yd.)
Capacity, Struck	1.7 m ³ (2.26 cu. yd.)	1.9 m³ (2.53 cu. yd.)	1.7 m³ (2.26 cu. yd.)	1.7 m ³ (2.26 cu. yd.)
Bucket Weight With Bolt-On Cutting Edge	1056 kg (2,327 lb.)	1095 kg (2,415 lb.)	1056 kg (2,327 lb.)	1056 kg (2,327 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	11 070 kg (24,406 lb.)	10 285 kg (22,674 lb.)	10 952 kg (24,145 lb.)	11 059 kg (24,381 lb.)
Tipping Load, Straight, No Tire Deflection	10 297 kg (22,702 lb.)	10 172 kg (22,426 lb.)	8667 kg (19,107 lb.)	7967 kg (17,564 lb.)
Tipping Load, Straight, With Tire Deflection	9753 kg (21,502 lb.)	9630 kg (21,230 lb.)	8253 kg (18,195 lb.)	7614 kg (16,786 lb.)
Tipping Load, 40-deg. Full Turn, No Tire Deflection	8955 kg (19,742 lb.)	8840 kg (19,489 lb.)	7496 kg (16,526 lb.)	6860 kg (15,123 lb.)
Tipping Load, 40-deg. Full Turn, With Tire Deflection	8259 kg (18,208 lb.)	8145 kg (17,957 lb.)	6963 kg (15,351 lb.)	6390 kg (14,088 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, No Tire Deflection	J	4420 kg (9,745 lb.)	3748 kg (8,263 lb.)	3430 kg (7,562 lb.)
(conforms to ISO 14397-1)*	3 · · · ·	3 · , · · ·	3.7	3.,
Rated Operating Load, 50% Full-Turn Tipping Load, With Tire Deflection	4130 kg (9,104 lb.)	4073 kg (8,978 lb.)	3482 kg (7,675 lb.)	3195 kg (7,044 lb.)
(conforms to ISO 14397-1)*				
Operating Weight	13 123 kg (28,931 lb.)	13 163 kg (29,018 lb.)	13 341 kg (29,412 lb.)	13 457 kg (29,667 lb.)
Loader operating information is based on machine with identified link	kage and standard equip	ment, PowerTech PVS 60	168 (EPA Final Tier 4/EU	Stage V) engine, ROPS
cab, rear cast bumper counterweight, transmission side-frame guard	ls, bottom guards, stand	ard tires, full fuel tank, a	and 79-kg (175 lb.) opera	tor. This information is
affected by changes in tires, ballast, and different attachments.				
40 . 1				

^{*}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





Dimensions With Bucket With									
21 m' 21 m' 22 m		Z-Bar	Z-Bar	High-Lift	High-Lift	High-Lift Plus	High-Lift Plus	Tool Carrier	Tool Carrier
Dimensions With Bucket With Defeat With		2.1-m ³		2.1-m ³	· ·		-	2.1-m ³	
Both-Co-Disage (Mustrations above) performance Might material Might material performance Might material performance Might material Might materia		(2.75 cu. yd.)	3.1-m ³	(2.75 cu. yd.)	3.1-m ³	(2.5 cu. yd.)	3.1-m ³	(2.75 cu. yd.)	3.1-m ³
A Height to Top of Cab A Height to Top of Cab Control Contr	Dimensions With Bucket With	enhanced	(4.0 cu. yd.)	enhanced	(4.0 cu. yd.)	enhanced	(4.0 cu. yd.)		(4.0 cu. yd.)
B Hood Height	Bolt-On Edge (illustrations above)	performance	light material	performance	light material	performance	light material	performance	light material
B Hood Height 2,375 m. 2,46 m. 1,45 m.	A Height to Top of Cab	3.33 m	3.33 m	3.33 m	3.33 m	3.33 m	3.33 m	3.33 m	3.33 m
G Froud Clarance OFF. 9 in.J OFF. 9 in.J <td>• •</td> <td>(10 ft. 11 in.)</td>	• •	(10 ft. 11 in.)	(10 ft. 11 in.)	(10 ft. 11 in.)	(10 ft. 11 in.)	(10 ft. 11 in.)			
G cond Clearance De Length From Centerline to From Akel Design Ength From Centerline to From Akel (4f, 9in.) 0.40 m (157in.) 0.46 m (157in.) 0.40 m (157in.	B Hood Height	2.375 m	2.375 m	2.375 m	2.375 m	2.375 m	2.375 m	2.375 m	2.375 m
Description Length From Centerline to Front Aske 4.5 m	_	(7 ft. 9 in.)	(7 ft. 9 in.)	(7 ft. 9 in.)	(7 ft. 9 in.)	(7 ft. 9 in.)			
y or between	C Ground Clearance	0.40 m (15.7 in.)	0.40 m (15.7 in.)	0.40 m (15.7 in.)	0.40 m (15.7 in.)	0.40 m (15.7 in.			
Wheelbase	D Length From Centerline to Front Axle	1.45 m	1.45 m	1.45 m	1.45 m	1.45 m	1.45 m	1.45 m	1.45 m
Ph. Overall Length, Bucket on Ground 9ft. 7 in. 9		(4 ft. 9 in.)	(4 ft. 9 in.)	(4 ft. 9 in.)	(4 ft. 9 in.)	(4 ft. 9 in.)			
F Overall Length, Bucket on Ground	E Wheelbase	2.93 m	2.93 m	2.93 m	2.93 m	2.93 m	2.93 m	2.93 m	2.93 m
Care		(9 ft. 7 in.)				(9 ft. 7 in.)			
Height to Hinge Pin, Fully Raised 381 m 381 m 4.17 m 4.17 m 4.17 m 4.42 m 4.42 m 3.89 m 3.89 m 3.89 m 1.26 to 1.61 to	F Overall Length, Bucket on Ground								
North Dump Clearance, 45 deg., Full Height 2,68 m 2,60 m 3,04 m 2,96 m 3,04 m 2,96 m 3,05 m 3,25 m 3,25 m 2,79 m 2,70 m									
B Dump Clearance, 45 deg., Full Height Ref to 10n, 8ft f. 6in, 10ft f. 0in, 9ft f. 9in, 10ft f. 0in, 10ft f. 0	G Height to Hinge Pin, Fully Raised								
Reach, 45-deg, Dump, Full Height 1.99 m 1.91 m 1.92 m 1.29 m 1.77 m 1.33 m 1.34 m 1.44 m 1.80 m 1.95 m 1.									(12 ft. 9 in.)
Reach, 45-deg, Dump, Full Height 109 m 119 m 119 m 119 m 129 m 117 m 1.33 m 1.44 m 144 ft, 5 in.] 3f t, 11 in.] 13f t, 11 in.] 13f t, 11 in.] 13f t, 11 in.] 13f t, 11 in.] 14f t, 4 in.] 14f t, 4 in.] 14f t, 5 in.] 14	H Dump Clearance, 45 deg., Full Height								
J. Reach, 45-deg. Dump, 2.13-m (7 ft. 0 in.)	I Reach, 45-deg. Dump, Full Height								
Clearance	1 5 1 (5 1 5 232 (75 0))								
K Maximum Digging Depth 108 mm (4.2 in.) 111 mm (4.4 in.) 199 mm (7.8 in.) 202 mm (8.0 in.) 196 mm (7.7 in.) 207 mm (8.1 in.) 100 mm (3.9 in.) 102 mm (4.6 in.) M Maximum Rollback, Boom Fully Raised 60 deg. 55 deg. 55 deg. 55 deg. 55 deg. 55 deg. 46									
L Maximum Rollback at Ground Level									
M Maximum Bollback, Boom Fully Raised 60 deg. 60 deg. 60 deg. 46 deg. 45 deg. 45 deg. 46 deg.									
N Maximum Bucket Dump Angle, Fully Raised 50 deg. 50 deg. 46 deg. 46 deg. 45 deg. 45 deg. 46 deg. 48									
Loader Clearance Circle, Bucket Carry 11.44 m 11.80 m 37 ft. 7 in.) (38 ft. 9 in.) (38 ft. 9 in.) (38 ft. 8 in.) (40 ft. 1 in.) (39 ft. 6 in.) (41 ft. 2 in.) (36 ft. 11 in.) (39 ft. 6 in.) (39 ft. 6 in.) (49 ft. 1 in.) (39 ft. 6 in.) (49 ft. 1 in.) (39 ft. 6 in.) (49 ft. 1 in.) (39 ft. 6 in.) (49 ft. 2 in.) (40 ft. 1 in.) (39 ft. 6 in.) (49 ft. 2 in.) (40 ft. 1 in.) (39 ft. 6 in.) (49 ft. 2 in.) (40 ft. 2 in									
Position (37 ft. 7 in.) (38 ft. 9 in.) (38 ft. 8 in.) (40 ft. 1 in.) (39 ft. 6 in.) (41 ft. 2 in.) (36 ft. 11 in.) (39 ft. 6 in.)									
Capacity, Heaped 2.1 m³ 3.1 m³ 2.2 m³ 3.2 m³									
Capacity, Heaped			(30 11. 3 111.)	(50 11. 0 111.)	(40 11. 1111.)	(3511.0111.)	(4111. 2 111.)	(50 11. 11 111.)	(35 11. 0 111.)
Capacity, Struck (2.75 cu, yd.) (4.0 cu, yd.) (2.75 cu, yd.) (4.0 cu, yd.) (2.5 cu, yd.) (4.0 cu, yd.) (2.5 cu, yd.) (4.0 cu, yd.) (2.6 m³ 1.7 m³ 2.6 m³ 1.5 m³ 2.6 m³ 1.5 m³ 2.6 m³ 1.7 m³ 2.6 m³ 1.5 m³ 2.6 m³ 1.7 m° 1.1			31 m ³	21 m ³	31 m ³	19 m ³	31 m ³	21 m ³	31 m ³
Capacity, Struck 1,7 m³ 2,6 m³ 1,10 m³	capacity, ricaped								
Caulon C	Capacity Struck								
Bucket Weight With Bolt-On Cutting Edge (3,205 lb.) (3,711 lb.) (3,205 lb.) (3,711 lb.) (3,205 lb.) (3,711 lb.) (3,052 lb.) (3,711 lb.) (3,167 lb.) (3,167 lb.) (3,651 lb.) (3,171 lb.) (3,167 lb.) (3,167 lb.) (3,651 lb.) (3,171 lb.) (3,167 lb.) (3,167 lb.) (3,651 lb.) (3,171 lb.) (3,167 lb.) (1,167 lb.) (1	capacity, struck								
Second Conference Seco	Bucket Weight With Bolt-On Cutting Edge								
Bucket Width 2.55 m (8 ft. 4 in.) (9 ft. 6 in.) (18 ft. 4 in.) (18 ft. 4 in.) (9 ft. 6 in.) (18 ft. 4 in.) (9 ft. 6 in.) (18 ft. 4 in.) (1									
Breakout Force 9604 kg (21,173 lb.) (18,891 lb.) (20,945 lb.) (18,684 lb.) (22,891 lb.) (18,870 lb.) (23,501 lb.) (20,081 lb.) Tipping Load, Straight, No Tire Deflection 9483 kg (20,906 lb.) (20,212 lb.) (17,568 lb.) (16,913 lb.) (16,394 lb.) (15,504 lb.) (15,504 lb.) (19,160 lb.) (18,486 lb.) Tipping Load, Straight, With Tire Deflection 8967 kg (19,769 lb.) (19,041 lb.) (16,700 lb.) (16,006 lb.) (15,635 lb.) (14,709 lb.) (18,208 lb.) (17,500 lb.) Tipping Load, 40-deg. Full Turn, No Tire 8199 kg 7888 kg 6841 kg 6548 kg 6360 kg 5965 kg 7503 kg 7503 kg Deflection (18,075 lb.) (17,391 lb.) (15,082 lb.) (14,436 lb.) (14,021 lb.) (13,150 lb.) (16,541 lb.) (15,880 lb.) Tipping Load, 40-deg. Full Turn, With 7539 kg 7206 kg 6327 kg 6327 kg 6327 kg 6338 kg 5919 kg 5493 kg 6936 kg 6633 kg 71pping Load, 50% Full-Turn 4099 kg 3944 kg 3421 kg 3274 kg 3180 kg 2982 kg 3752 kg 3602 kg Tipping Load, No Tire Deflection (9,037 lb.) (8,695 lb.) (7,541 lb.) (7,218 lb.) (7,218 lb.) (7,011 lb.) (6,575 lb.) (6,575 lb.) (7,646 lb.) (7,312 lb.) (19,041 lb.) (19,04	Bucket Width	2.55 m	2.89 m		2.89 m		2.89 m	2.55 m	2.89 m
(21,173 lb.) (18,891 lb.) (20,945 lb.) (18,684 lb.) (22,891 lb.) (18,870 lb.) (23,501 lb.) (20,081 lb.) (16,993 lb.) (16,394 lb.) (15,504 lb.) (15,504 lb.) (19,160 lb.) (18,486 lb.) (18,486 lb.) (19,160 lb.) (18,486 lb.) (19,160 lb.) (18,208 lb.) (19,160 lb.) (19,041 lb.) (16,006 lb.) (16,006 lb.) (15,635 lb.) (14,709 lb.) (18,208 lb.) (17,500 lb.) (19,041 lb.) (19,041 lb.) (19,041 lb.) (16,006 lb.) (15,082 lb.) (14,021 lb.) (13,150 lb.) (16,541 lb.) (15,541 lb.) (15,681 lb.) (15,081 lb.) (15,0		(8 ft. 4 in.)	(9 ft. 6 in.)	(8 ft. 4 in.)	(9 ft. 6 in.)	(8 ft. 4 in.)	(9 ft. 6 in.)	(8 ft. 4 in.)	(9 ft. 6 in.)
(21,173 lb.) (18,891 lb.) (20,945 lb.) (18,684 lb.) (22,891 lb.) (18,870 lb.) (23,501 lb.) (20,081 lb.) (16,993 lb.) (16,394 lb.) (15,504 lb.) (15,504 lb.) (19,160 lb.) (18,486 lb.) (18,486 lb.) (19,160 lb.) (18,486 lb.) (19,160 lb.) (18,208 lb.) (19,160 lb.) (19,041 lb.) (16,006 lb.) (16,006 lb.) (15,635 lb.) (14,709 lb.) (18,208 lb.) (17,500 lb.) (19,041 lb.) (19,041 lb.) (19,041 lb.) (16,006 lb.) (15,082 lb.) (14,021 lb.) (13,150 lb.) (16,541 lb.) (15,541 lb.) (15,681 lb.) (15,081 lb.) (15,0	Breakout Force	9604 kg	8569 kg	9500 kg	8475 kg	10 383 kg	8559 kg	10 660 kg	9109 kg
Tipping Load, Straight, With Tire Deflection 8967 kg 8637 kg 7575 kg 7260 kg 7092 kg 6672 kg 8259 kg 7938 kg (19,769 lb.) (19,769 lb.) (16,700 lb.) (16,700 lb.) (16,006 lb.) (15,635 lb.) (14,709 lb.) (18,208 lb.) (17,500 lb.) (17,500 lb.) (16,006 lb.) (15,635 lb.) (14,709 lb.) (18,208 lb.) (17,500 lb.) (16,700 lb.) (16,700 lb.) (16,006 lb.) (15,635 lb.) (14,709 lb.) (18,208 lb.) (17,500 lb.) (17,500 lb.) (16,641 lb.) (16,641 lb.) (16,641 lb.) (16,541 lb.) (16,641 lb.)		(21,173 lb.)		(20,945 lb.)	(18,684 lb.)	(22,891 lb.)	(18,870 lb.)	(23,501 lb.)	(20,081 lb.)
Tipping Load, Straight, With Tire Deflection 8967 kg (19,041 lb.) (19,041 lb.) (16,700 lb.) (16,006 lb.) (15,635 lb.) (14,709 lb.) (18,208 lb.) (17,500 lb.) (17,500 lb.) (19,041 lb.) (16,700 lb.) (16,006 lb.) (15,635 lb.) (14,709 lb.) (18,208 lb.) (17,500 lb.) (17,500 lb.) (18,008 lb.) (17,500 lb.) (18,008 lb.) (17,500 lb.) (18,008 lb.) (17,500 lb.) (18,008 lb.) (17,000 lb.) (18,008 lb.) (17,000 lb.) (18,008 lb.) (18,008 lb.) (17,000 lb.) (18,008 lb.) (18,	Tipping Load, Straight, No Tire Deflection							8691 kg	8385 kg
(19,769 lb.) (19,041 lb.) (16,006 lb.) (15,635 lb.) (14,709 lb.) (18,208 lb.) (17,500 lb.) (17,500 lb.) (19,041 lb.) (19,041 lb.) (19,041 lb.) (16,006 lb.) (15,635 lb.) (14,709 lb.) (18,008 lb.) (17,500 lb.) (17,500 lb.) (17,500 lb.) (15,008 lb.) (17,500 lb.) (18,008 lb.) (17,500 lb.) (18,008 lb.) (17,500 lb.) (15,008 lb.) (15,008 lb.) (14,436 lb.) (14,021 lb.) (13,150 lb.) (16,541 lb.) (15,880 lb.) (15,008 lb.) (15,0			(20,212 lb.)		(16,913 lb.)		(15,504 lb.)		
Tipping Load, 40-deg. Full Turn, No Tire B199 kg (18,075 lb.) (17,391 lb.) (15,082 lb.) (14,436 lb.) (14,021 lb.) (13,150 lb.) (16,541 lb.) (15,880 lb.) (15,082 lb.) (14,436 lb.) (14,021 lb.) (13,150 lb.) (16,541 lb.) (15,880 lb.) (15,880 lb.) (15,082 lb.) (14,436 lb.) (14,021 lb.) (13,150 lb.) (16,541 lb.) (15,880 lb.) (15,886 lb.) (13,949 lb.) (13,300 lb.) (13,049 lb.) (12,110 lb.) (15,291 lb.) (15,291 lb.) (14,623 lb.) (15,082 lb.) (15,082 lb.) (15,082 lb.) (13,049 lb.) (13,049 lb.) (12,110 lb.) (15,291 lb.) (15,291 lb.) (14,623 lb.) (15,082 lb.) (15,082 lb.) (15,082 lb.) (15,082 lb.) (13,049 lb.) (13,049 lb.) (13,049 lb.) (12,110 lb.) (15,291 lb.) (14,623 lb.) (15,291	Tipping Load, Straight, With Tire Deflection								
Deflection (18,075 lb.) (17,391 lb.) (15,082 lb.) (14,436 lb.) (14,021 lb.) (13,150 lb.) (16,541 lb.) (15,880 lb.) (15,082 lb.) (14,436 lb.) (14,021 lb.) (13,150 lb.) (16,541 lb.) (15,880 lb.) (15,880 lb.) (15,886 lb.) (13,949 lb.) (13,049 lb.) (13,049 lb.) (12,110 lb.) (15,291 lb.) (14,623 lb.) (15,291									
Tipping Load, 40-deg. Full Turn, With 7539 kg 7206 kg 6327 kg 6033 kg 5919 kg 5493 kg 6936 kg 6633 kg Tire Deflection (16,621 lb.) (15,886 lb.) (13,949 lb.) (13,300 lb.) (13,049 lb.) (12,110 lb.) (15,291 lb.) (14,623 lb.) Rated Operating Load, No Tire Deflection (9,037 lb.) (8,695 lb.) (7,541 lb.) (7,218 lb.) (7,218 lb.) (7,011 lb.) (6,575 lb.) (8,271 lb.) (7,940 lb.) (7,940 lb.) (12,110 lb.) (15,291 lb.) (14,623 lb.) (13,049 lb.) (14,623 lb.)									
Tire Deflection (16,621 lb.) (15,886 lb.) (13,949 lb.) (13,300 lb.) (13,049 lb.) (12,110 lb.) (15,291 lb.) (14,623 lb.) Rated Operating Load, 50% Full-Turn 4099 kg 3944 kg 3421 kg 3274 kg 3180 kg 2982 kg 3752 kg 3602 kg Tipping Load, No Tire Deflection (9,037 lb.) (8,695 lb.) (7,541 lb.) (7,218 lb.) (7,011 lb.) (6,575 lb.) (8,271 lb.) (7,940 lb.) (2000 conforms to ISO 14397-1)* Rated Operating Load, 50% Full-Turn 3770 kg 3603 kg 3164 kg 3017 kg 2960 kg 2747 kg 3468 kg 3317 kg Tipping Load, With Tire Deflection (8,310 lb.) (7,943 lb.) (6,974 lb.) (6,650 lb.) (6,525 lb.) (6,055 lb.) (7,646 lb.) (7,312 lb.) (2000 conforms to ISO 14397-1)*									
Rated Operating Load, 50% Full-Turn 4099 kg 3944 kg 3421 kg 3274 kg 3180 kg 2982 kg 3752 kg 3602 kg Tipping Load, No Tire Deflection (9,037 lb.) (8,695 lb.) (7,541 lb.) (7,218 lb.) (7,011 lb.) (6,575 lb.) (8,271 lb.) (7,940 lb.) (conforms to ISO 14397-1)* Rated Operating Load, 50% Full-Turn 3770 kg 3603 kg 3164 kg 3017 kg 2960 kg 2747 kg 3468 kg 3317 kg Tipping Load, With Tire Deflection (8,310 lb.) (7,943 lb.) (6,974 lb.) (6,650 lb.) (6,525 lb.) (6,055 lb.) (7,646 lb.) (7,312 lb.) (conforms to ISO 14397-1)*									
Tipping Load, No Tire Deflection (9,037 lb.) (8,695 lb.) (7,541 lb.) (7,218 lb.) (7,011 lb.) (6,575 lb.) (8,271 lb.) (7,940 lb.) (2,001 lb.) (2,001 lb.) (2,001 lb.) (2,001 lb.) (3,000 lb.) (3,000 lb.) (4,940 lb.) (4,940 lb.) (4,940 lb.) (4,000 lb									
(conforms to ISO 14397-1)* Rated Operating Load, 50% Full-Turn 3770 kg 3603 kg 3164 kg 3017 kg 2960 kg 2747 kg 3468 kg 3317 kg Tipping Load, With Tire Deflection (8,310 lb.) (7,943 lb.) (6,974 lb.) (6,650 lb.) (6,525 lb.) (6,055 lb.) (7,646 lb.) (7,312 lb.) (conforms to ISO 14397-1)*									
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Tipping Load, With Tire Deflection (8,310 lb.) (7,943 lb.) (6,974 lb.) (6,650 lb.) (6,525 lb.) (6,055 lb.) (7,646 lb.) (7,312 lb.) (conforms to ISO 14397-1)*		2770	2021-	2107.1	2017	2000 1	27/7	2/.00	7717 l
(conforms to ISO 14397-1)*									
		(8,310 lb.)	(7,943 lb.)	(6,9/4 lb.)	(6,650 lb.)	(6,525 lb.)	(6,055 lb.)	(7,646 lb.)	(7,312 lb.)
		12 E/1 k=	12 770 k-	12.760 I	12 000 I	12 006 1	1/, 10E k=	12 200 I	12 610 1
Operating Weight 13 541 kg 13 770 kg 13 760 kg 13 989 kg 13 806 kg 14 105 kg 13 390 kg 13 610 kg (29,853 lb.) (30,359 lb.) (30,335 lb.) (30,841 lb.) (30,438 lb.) (31,097 lb.) (29,520 lb.) (30,004 lb.)	Operating weight								(30,004 lb.)
Loader operating information is based on machine with identified linkage and standard equipment, PowerTech PVS 6068 (EPA Final Tier 4/EU Stage V) engine, ROPS cab, rear case	Loader operating information is based on a								

Loader operating information is based on machine with identified linkage and standard equipment, PowerTech PVS 6068 (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.

524 P-TIER Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS / TOOL CARRIER Dimensions and Specifications With Hi-Vis Coupler and Hook-On Construction Forks 524 P-TIER Z-BAR / HIGH-LIFT / HIGH-LIFT H 524 P-TIER TOOL-CARRIER LOADER WITH HI-VIS Н PLUS LOADERS WITH HI-VIS COUPLER COUPLER AND HOOK-ON CONSTRUCTION FORKS AND HOOK-ON CONSTRUCTION FORKS Cab Cab 0 0 Α Α G G 1 В В K K C D C D Ν Ε M Ν Ε М F F High-Lift High-Lift Plus High-Lift Plus Z-Bar Z-Bar High-Lift Tool Carrier Tool Carrier 1.22-m (48 in.) 1.52-m (60 in.) Dimensions With Forks (illustrations above) tine length A Height to Top of Cab 3.33 m (10 ft. 11 in.) **B** Hood Height 2.375 m (7 ft 9 in) **C** Ground Clearance 0.40 m (15.7 in.) D Length From Centerline to Front Axle 1.45 m (4 ft. 9 in.) E Wheelbase 2 93 m (9 ft. 7 in.) F Overall Length, Forks on Ground 7.94 m 8.24 m 8.37 m 8.68 m 8.67 m 8.97 m 8.13 m 8.44 m (26 ft. 1 in.) (28 ft. 6 in.) (28 ft. 5 in.) (29 ft. 5 in.) (26 ft. 8 in.) (27 ft. 8 in.) (27 ft. 1 in.) (27 ft. 6 in.) G Height to Hinge Pin, Fully Raised 3.81 m 3.81 m 4.17 m 4.17 m 4.42 m 4.42 m 3.89 m 3.89 m (12 ft. 6 in.) (12 ft. 9 in.) (12 ft. 9 in.) (12 ft. 6 in.) (13 ft. 8 in.) (13 ft. 8 in.) (14 ft. 6 in.) (14 ft. 6 in.) H Reach, Fully Raised 0.82 m (32 in.) 0.82 m (32 in.) 0.92 m 0.96 m 0.92 m 0.96 m 1.08 m 1.08 m (3 ft. 0 in.) (3 ft. 7 in.) (3 ft. 0 in.) (3 ft. 2 in.) (3 ft. 2 in.) (3 ft. 7 in.) I Fork Height, Fully Raised 3.48 m 3.48 m 3.84 m 4.09 m 4.09 m 3.84 m 3.66 m 3.66 m (11 ft. 5 in.) (13 ft. 5 in.) (12 ft. 7 in.) (12 ft. 7 in.) (13 ft. 5 in.) (12 ft. 0 in.) (12 ft. 0 in.) (11 ft. 5 in.) Maximum Reach, Fork Level 1.56 m 1.56 m 1.89 m 1.89 m 2.10 m 2.10 m 1.81 m 1.81 m (5 ft. 1 in.) (5 ft. 1 in.) (6 ft. 2 in.) (6 ft. 2 in.) (6 ft. 11 in.) (6 ft. 11 in.) (5 ft. 11 in.) (5 ft. 11 in.) K Fork Height, Maximum Reach 1.65 m 1.66 m 1.66 m 1.66 m 1.66 m 1.83 m 1.83 m 1.65 m (5 ft. 5 in.) (6 ft. 0 in.) (6 ft. 0 in.) 0.99 m L Reach, Ground Level 0.99 m 1.40 m 1.40 m 1.65 m 1.17 m 1.17 m 1.65 m (4 ft. 7 in.) (4 ft. 7 in.) (5 ft. 5 in.) (5 ft. 5 in.) (3 ft. 10 in.) (3 ft. 10 in.) (3 ft. 3 in.) (3 ft. 3 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.) O Load Position, 50% Tine Length 0.76 m (30 in.) 0.61 m (24 in.) 0.76 m (30 in.) 0.61 m (24 in.) 0.61 m (24 in.) 0.76 m (30 in.) 0.61 m (24 in.) 0.76 m (30 in.) Specifications With Forks 6101 kg 5760 kg 6504 kg 6990 kg 5701 kg 5393 kg 6135 kg Tipping Load, Straight, No Tire Deflection 6574 kg (15,411 lb.) (14,494 lb.) (13,451 lb.) (12,698 lb.) (12,569 lb.) (11,889 lb.) (14,339 lb.) (13,525 lb.) Tipping Load, Straight, With Tire Deflection 6801 kg 6393 kg 5943 kg 5616 kg 5538 kg 5250 kg 6333 kg 5976 kg (14.094 lb.) (14 994 lb.) (13,102 lb.) (12.381 lb.) (12 209 lb.) (11 574 lb.) (13.962 lb.) (13175 lb.) Tipping Load, 40-deg. Full Turn, No Tire 6050 kg 5681 kg 5246 kg 4943 kg 4877 kg 4604 ka 5619 kg 5289 kg (10,752 lb.) Deflection (13,338 lb.) (12,524 lb.) (11,566 lb.) (10,898 lb.) (10,149 lb.) (12,388 lb.) (11,660 lb.) Tipping Load, 40-deg. Full Turn, With 4674 kg 5796 ka 5442 kg 5013 kg 4728 kg 4401 ka 5385 ka 5085 kg (10,304 lb.) (11,872 lb.) (10,423 lb.) Tire Deflection (12,778 lb.) (11,998 lb.) (11,052 lb.) (9,703 lb.) (11,210 lb.) Rated Operating Load, 50% Full-Turn 2898 kg 2721 kg 2507 kg 2364 kg 2337 kg 2201 kg 2693 kg 2543 kg (5,605 lb.) Tipping Load, With Tire Deflection (6.389 lb.) (5.999 lb.) (5.526 lb.) (5.212 lb.) (5.152 lb.) (4.851 lb.) (5.936 lb.) (conforms to ISO 14397-1 and SAE J1197)* Rated Operating Load, Rough Terrain, 3478 kg 3265 kg 3008 kg 2837 kg 2804 kg 2641 kg 3231 kg 3051 kg (7,667 lb.) (6,183 lb.) (5,822 lb.) (7,123 lb.) 60% Full-Turn Tipping Load, With Tire (7,199 lb.) (6,631 lb.) (6,254 lb.) (6,726 lb.) Deflection (conforms to EN474-3)* Rated Operating Load, Firm and Level 4637 kg 4354 kg 4010 kg 3782 kg 3739 kg 3521 kg 4308 kg 4068 kg Ground, 80% Full-Turn Tipping Load, With (10,222 lb.) (9,598 lb.) (8,841 lb.) (8,339 lb.) (8,244 lb.) (7,762 lb.) (9,498 lb.) (8,968 lb.) Tire Deflection (conforms to EN474-3)* Operating Weight 13 366 kg 13 427 kg 13 585 kg 13 646 kg 13 701 kg 13 762 kg 13 206 kg 13 266 kg (29.468 lb.) (29.601 lb.) (29.950 lb.) (30,084 lb.) (30,206 lb.) (30.339 lb.) (29.114 lb.) (29.246 lb.) Loader operating information is based on machine with identified linkage and standard equipment, PowerTech PVS 6068 (EPA Final Tier 4/EU Stage V) engine, ROPS cab, rear cast bumper/counterweight, transmission side-frame quards, bottom quards, 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.

524 P-TIER Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS / TOOL CARRIER Adjustments to Operating Weights and Tipping Loads With Buckets 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*

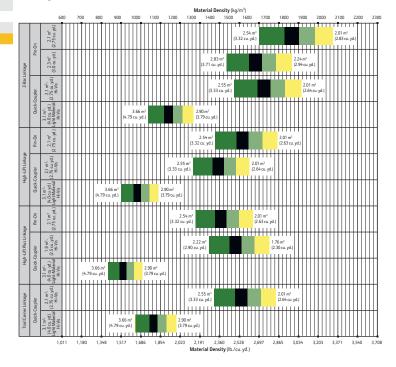
Add (+) or deduct (-) kg (lb.) as indicated for	_	Tipping Load,	Tipping Load,			
loaders with 3-piece rims	Operating Weight	Straight	40-deg. Full Turn	Tread Width	Width Over Tires	Vertical Height
Michelin 20.5 R 25, 1 Star L-3 XHA2	0 kg (0 lb.)	0 kg (0 lb.)	0 kg (0 lb.)	0 mm (0 in.)	0 mm (0 in.)	0 mm (0 in.)
Bridgestone 20.5 R 25, 1 Star L-3 VJT	+4 kg (+9 lb.)	+3 kg (+6 lb.)	+3 kg (+6 lb.)	0 mm (0 in.)	+2 mm (+0.1 in.)	–41 mm (–1.6 in.)
Titan 20.5 R 25, 1 Star L-3 STL3	+11 kg (+23 lb.)	+8 kg (+17 lb.)	+7 kg (+15 lb.)	0 mm (0 in.)	–7 mm (–0.3 in.)	−5 mm (−0.2 in.)
Michelin 20.5 R 25, 1 Star L-2 XTLA	–152 kg (–335 lb.)	-109 kg (-241 lb.)	–96 kg (–212 lb.)	0 mm (0 in.)	+4 mm (+0.2 in.)	–11 mm (–0.4 in.)
Bridgestone 20.5 R 25, 1 Star L-2 VUT	-65 kg (-144 lb.)	–47 kg (–104 lb.)	–41 kg (–91 lb.)	0 mm (0 in.)	+3 mm (+0.1 in.)	–10 mm (–0.4 in.)
Titan 20.5 R 25, 1 Star L-2 TGD2	–85 kg (–188 lb.)	-61 kg (-135 lb.)	–54 kg (–119 lb.)	0 mm (0 in.)	–7 mm (–0.3 in.)	–10 mm (–0.4 in.)
Titan 20.5-25, 16 PR L-2	–245 kg (–541 lb.)	–176 kg (–389 lb.)	–155 kg (–343 lb.)	0 mm (0 in.)	+8 mm (+0.3 in.)	–2 mm (–0.1 in.)
Firestone 20.5-25, 16 PR L-2 SGG LD	–280 kg (–617 lb.)	–201 kg (–443 lb.)	–177 kg (–391 lb.)	0 mm (0 in.)	+5 mm (+0.2 in.)	–1 mm (0 in.)
Titan 20.5-25, 12 PR L-2	-266 kg (-587 lb.)	–191 kg (–422 lb.)	–169 kg (–372 lb.)	0 mm (0 in.)	+8 mm (+0.3 in.)	–2 mm (–0.1 in.)
Firestone 20.5-25, 16 PR L-3 SRG LD	–276 kg (–608 lb.)	–198 kg (–437 lb.)	–175 kg (–385 lb.)	0 mm (0 in.)	+8 mm (+0.3 in.)	+3 mm (+0.1 in.)
Michelin 20.5 R 25, 1 Star L2 SNO-PLUS	-96 kg (-212 lb.)	-69 kg (-152 lb.)	-61 kg (-134 lb.)	0 mm (0 in.)	+6 mm (+0.2 in.)	-16 mm (-0.6 in.)
Michelin 620/75R26 MegaXbib ^{£®}	–189 kg (–417 lb.)	–136 kg (–300 lb.)	–120 kg (–264 lb.)	+187 mm (+7.4 in.)	+247 mm (+9.7 in.)	+23 mm (+0.9 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/m³	lb./cu. yd.	LOOSE MATERIALS	kg/m³	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		
Granite, broken	1538	2,592	(1.5 to 3.5 in.) size	1442	2,430
Gypsum	2275	3,834	Stone or gravel, 18.75-mm (0.75 in.) size	1602	2,700

Bucket Fill Factors



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

Additional equipment

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

- 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
- 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 highambient cooling package
- 2-side access to all coolers

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-
- 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

Equipped with 1-piece rims.

^BRequires 8-deg. rear axle stops.

Additional equipment (cont.)

Hydraulics (continued)

- 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
- Hydrau™ XR cold-temperature hydraulic fluid recommended below –25 deg. C (–13 deg. F)

Steering Systems

- Conventional steering wheel with spinner knob
- Secondary steering

- 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)

Electrical (continued)

- 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
- 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
- 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
- Seat-belt minder monitoring with JDLink™ and seat-belt indicator beacon
- 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

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

Operator's Station (continued)

- Rearview camera
- Rearview camera with radar object-detection
- Dedicated 178-mm (7 in.) rear camera display
- Advanced rear object-detection system
- Advanced vision system
- Payload scale ready
- SmartWeigh™ ready + trial
- SmartWeigh
- Fire extinguisher

Loader Linkage

- Z-Bar loader linkage (parallel lift)
- High-Lift Z-Bar loader linkage (parallel lift) \blacktriangle
- 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,
- John Deere hydraulic coupler that accepts JRBpattern 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, right 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 quard
- 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 \blacktriangle
- 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



