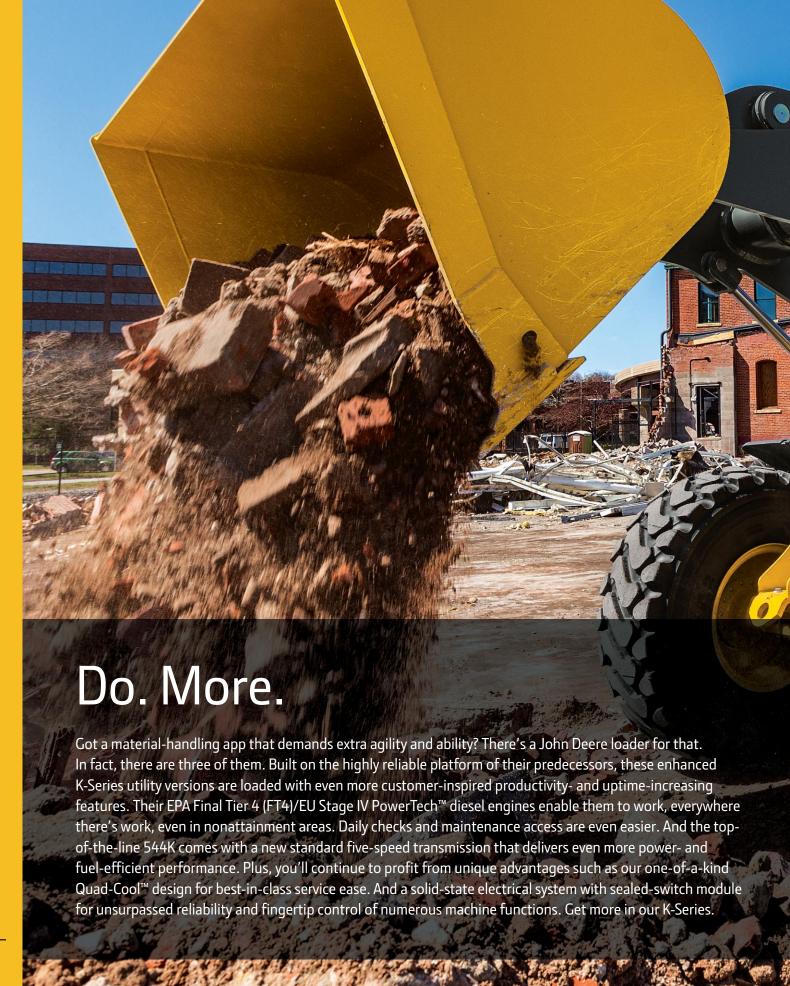
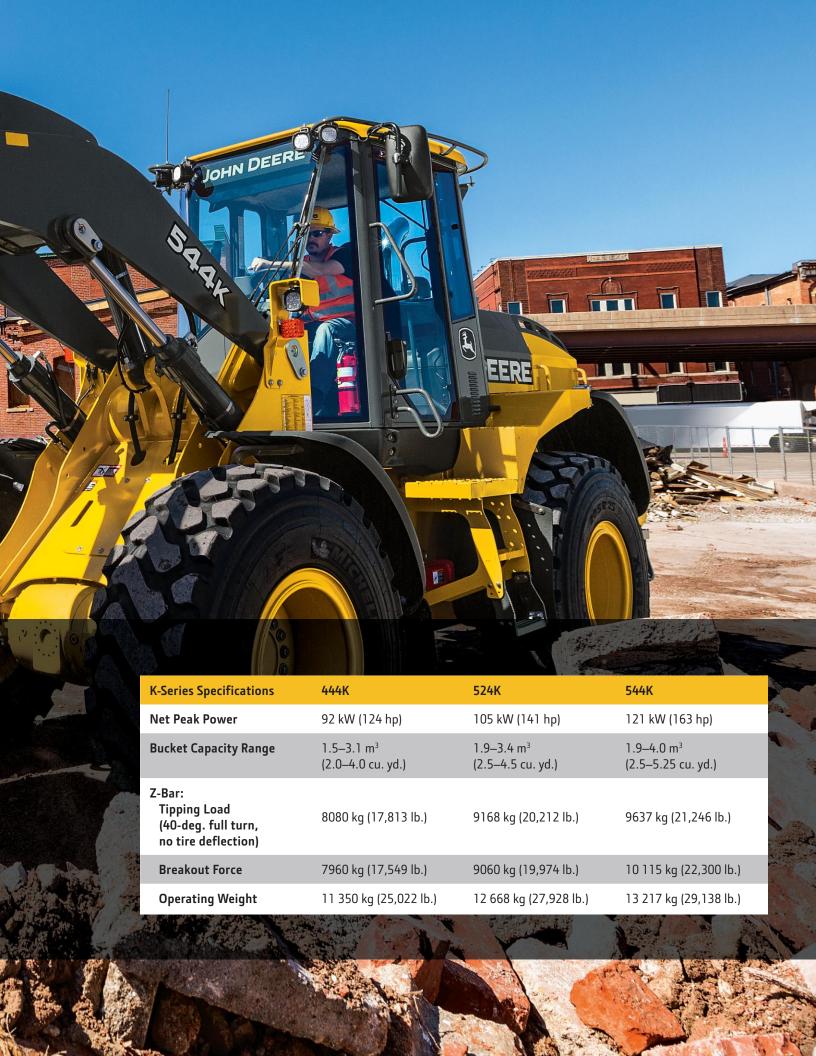
## 444K/524K/544K LOADERS

92–121 kW (124–163 net hp)









# Long days made shorter.

Time flies when you're getting things done. And what operator wouldn't be more productive in the high-back air-ride seat of a K-Series Loader? Up-front, an enhanced multifunction monitor displays operating, diagnostic, and maintenance info on a color LCD screen with easy-on-the-eyes clarity. Generous tinted glass and a low-profile console allow a commanding view of the work ahead. The spacious and quiet cab boasts plenty of legroom and fatiquebeating ergonomics, including convenience features such as seatmounted loader controls. And sealed-switch module (SSM) with keyless start and effortless push-button operation of numerous machine functions. For more productivity without extra effort.

Adjustable automotive-style louvers provide effective airflow to keep the glass clear and the pressurized cab comfortable.

Entertainment/information choices include an AM/FM/WB/XM Satellite Radio<sup>™</sup> with remote auxiliary and USB ports and Bluetooth® connectivity.

Keyless-start security system requires a numeric pass code (when enabled). Helps prevent unauthorized machine operation.

Available premium heated air-ride armchair seat adjusts multiple ways for extra comfort and cushioning.

Conveniently positioned brake and throttle pedals allow plenty of legroom for easy entrance and exit.



Multi-language color LCD monitor provides push-button access to a wealth of machine info and control:

- A. Vital and general operating info, including transmission mode, gear, engine rpm, ground speed, fuel level, and fluid temps.
- B. Enhanced onboard diagnostics with speed, pressure, and temperature readings and real-time switch status.
- C. Customized machine settings such as Quick Shift, Auto-to-1st, and Ride Control let you match operating characteristics to specific jobs and conditions.
- D. Optional embedded payload scale weighs each bucket load, helping fill trucks to the max.







# More power and control mean more productivity.

If you want maximum productivity, a K-Series Loader should be on your jobsite. It's not just their big torque reserves that make them such impressive performers. Single-lever joystick or two-lever fingertip controls provide smooth effortless control. Excavator-style hydraulics sense the load and deliver the flow needed for smooth combined functions and fast work cycles. PowerShift™ torque-converter transmission on the 444K and 524K employs Smart-Shift™ technology to continuously evaluate speed and load conditions, and adjusts clutch-pack engagement to suit. 544K's new standard five-speed transmission with lockup torque converter in gears 2−5 increases acceleration, speeds cycles, and optimizes power and fuel efficiency during transport, roading, and ramp climbing. You won't find a smoother-shifting loader.

Boom-height kick-out and return-tocarry functions help speed production in repetitive loading applications. On Powerllel™-equipped loaders, the touchpad has two presets for added convenience when frequent attachment changeover is required.

Engine/hydraulic match maintains good boom and bucket power into and out of the pile. For big loads, even in wet or packed materials.

Responsive steering and full 80-deg. articulation increase maneuverability in tight quarters, for faster cycle times and fewer three-point turns.

Optional spin control boosts productivity by improving traction in troublesome material or underfoot conditions. Reduces tire wear, fuel costs, and operator fatique, too.

Hydraulic system provides only the power required, so there's no wasted horsepower or fuel.

Smart-Shift ensures that gear changes are smooth as silk, regardless of whether the bucket is empty or fully loaded.













- Joystick F-N-R selector provides convenient direction and full-range gear changes. Both include innovative Quick-Shift feature for push-button gear changes, one gear at a time.
- 2. Hinged panel tilts away for quick ground-level access to both the fuel and diesel exhaust fluid (DEF) tanks, making refills convenient and easy.
- 3. Programmable clutch cutoff increases productivity in all kinds of terrain. Simply select the slope of your dumpsite — level, small, or steep. Depressing the brake pedal disconnects the transmission while maintaining engine speed for fast boom cycles.







tasks such as loading logs.

you can do more with one machine.

the boom. For powerful breakout in tough digging.

Hi-Vis coupler fastens the attachment close to the machine to optimize stability with heavy loads.

Unique Y-link, low-mounted boom cylinders, and Hi-Vis coupler provide clear visibility to the work tool and throughout the lift arc.

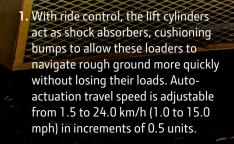
Tire and axle options let you equip your Powerllel loader for materialhandling work on a wide variety of terrain.





# Purpose-built for a wide variety of purposes.

K-Series Loaders come equipped with plenty of production-boosting features to help you handle almost anything you throw their way. But if yours isn't just any application, we've got you covered with a wide variety of factory- or dealer-installed options. So you can equip your loader with exactly what you need to maximize your efforts and expand your opportunities. Not all options are available on all loaders, so see your dealer for specific details.



 Automatic differential lock engages as soon as a tire begins to slip. It's ideal for inexperienced operators or applications requiring high traction, such as stockpiling silage, plowing snow, and handling pipe.





Embedded payload scale enables you to fill each truck to its legal limit for maximum productivity. It's available on all Z-Bar and High-Lift loaders.

General-purpose or excavating buckets are available in pin-on or coupler configurations from 1.9–2.3 m³ (2.5–3.0 cu. yd.). Or opt for forks with 1.22- and 1.52-m (48 and 60 in.) tines, depending on model.



keep the machine free of mud and debris.

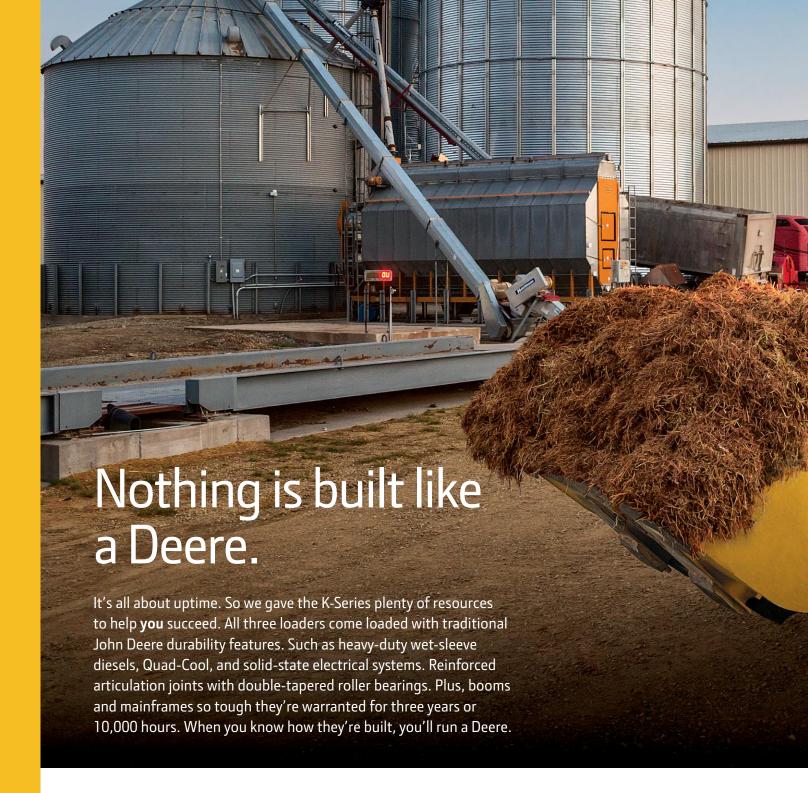
Rear-axle disconnect on the 524K and 544K disengages power when not needed. Reduces fuel consumption and tire wear, and helps smooth the ride during roading or transport.

(MSHA)-compliant self-cleaning steps and convenient handrails provide right-side access to the skid-resistant platform for cleaning windows.

Corrosion package shields electrical components and connections to help prevent corrosive materials from shortcircuiting productivity.

in high airborne-debris environments.

Heated mirrors prevent fog and ice from obstructing visibility and impacting productivity.



Four steel plates support the loader tower, extending pin life and protecting the boom-cylinder hoses.

Sealed-switch module keeps out dust, moisture, and debris, and virtually never wears out. Proven marine-grade touchpad eliminates rocker switches and nearly 100 wires, and unsealed connections provide even longer life.

Ever have an operator burn up a starter attempting to fire-up a machine that was out of fuel? Standard starter protection limits cranking time and requires cooldown periods between attempts.

Inboard planetary final drives and selfadjusting wet-disc brakes on 524K and 544K are virtually maintenance-free.

Electrical-distribution center employs highly reliable circuit-board technology and solid-state switches that eliminate numerous wiring harnesses, fuses, relays, and connectors. Sealed gold-pin electrical connectors resist corrosion for superior long-term integrity.

Hydraulically driven fan runs only as needed for efficient cooling. Helps conserve precious fuel, too. Standard features such as bypassstart protection, automatic park brake, convenient handholds, and slip-resistant steps help keep the operator out of harm's way.

Auto-idle applies the brakes and automatically reduces engine speed to help conserve fuel after an operator-determined period of inactivity. Auto shutdown turns off the engine after extended idleness.



# Stretches your dollars, not your service techs.

Controlling daily owning and operating costs shouldn't be a reach — and it's not on a K-Series Loader. Same-side ground-level service points make quick work of the daily routine. Unique Quad-Cool system provides wide-open access to both sides of the coolers for easy cleanout. Extended service intervals let you work longer between changes. And because no maintenance beats low maintenance, standard self-adjusting serpentine engine belts and wet-disc brakes seldom, if ever, require attention. That's just for starters. The list of K-Series maintenanceminimizing features goes on and on. And so will the owning and operating cost savings you'll enjoy.

- 1. Vertical spin-on filters allow quick, no-spill changes. 500-, 2,000-, and 4,000-hour engine, transmission, and hydraulic oil-change intervals help reduce operating costs.
- 2. If something goes wrong, the easyto-navigate LCD monitor displays diagnostic messages, and even offers possible solutions to help get you back up and running quickly.
- 3. Color-coded fluid-sample and diagnostic test ports help speed preventative maintenance and troubleshooting. Noninvasive design helps keep out contaminants.

- **4.** Conveniently located, easy-to-read sight gauges and see-through reservoirs let you check transmission, hydraulic, coolant, and windshield washer fluid levels at a glance.
- **5.** Lockable master electricaldisconnect switch, cab circuit breaker, and remote-start terminals are enclosed beneath the right-side step for ground-level convenience.















500-, 2,000-, and 4,000-hour engine, transmission, and hydraulic oil and filter service intervals mean more uptime.

3-mm (0.12 in.) side-shield perforations block most airborne debris. Unlike stacked coolers, Quad-Cool cores resist plugging and are easily accessible from either side for quick and easy cleanout.

All daily service points including fuel are grouped on the left side of the machine for quick and convenient access.

Greasing is less messy, with centralized lube banks providing easy access to difficult-toreach zerks. Periodic lube and maintenance chart conveniently ensures that nothing gets overlooked.

Large-mouth fuel tank and nearby diesel exhaust fluid (DEF) reservoir make ground-level refilling fast and easy. Increased capacities let you work longer between fill-ups.

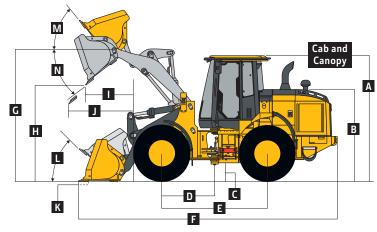
John Deere WorkSight™ is an exclusive suite of telematics solutions that increases uptime while lowering operating costs. At its heart, JDLink™ Ultimate machine monitoring provides real-time utilization data and alerts to help you maximize productivity and efficiency while minimizing downtime. Remote diagnostics enable your dealer to read codes, record performance data, and even update software without a trip to the jobsite.

Ultimate Uptime, featuring John Deere WorkSight, is a customizable support solution available exclusively from your John Deere dealer. This flexible offering maximizes equipment availability with standard John Deere WorkSight capabilities that can help prevent future downtime and speed repairs when needed. In addition to the base John Deere WorkSight features, our dealers work with you to build an uptime package that meets the specific needs of your machine, fleet, project, and business, including customized maintenance and repair agreements, onsite parts availability, extended warranties, fluid sampling, response-time guarantees, and more.

Engine	444K Z-BAR / HIGH-LIFT / POWER	I I E I ™	
Manufacturer and Model	John Deere PowerTech™ PSS 4045	LLUL	John Deere PowerTech™ E 4045H
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV		EPA Tier 3/EU Stage IIIA
Cylinders	4		4
Valves Per Cylinder	4		2
	4.5 L (276 cu. in.)		4.5 L (276 cu. in.)
Displacement Net Peak Power (ISO 9249)			. ,
, ,	92 kW (124 hp) at 2,100 rpm		92 kW (124 hp) at 2,100 rpm
Net Peak Torque (ISO 9249)	507 Nm (374 lbft.) at 1,000 rpm		507 Nm (374 lbft.) at 1,000 rpm
Net Torque Rise	34%		36%
Fuel System (electronically controlled)	High-pressure common rail		High-pressure common rail
Lubrication	Full-flow spin-on filter and integral	cooler	Full-flow spin-on filter and integral cooler
Aspiration	Turbocharged, charge air cooled		Turbocharged, charge air cooled
Air Cleaner	Under-hood, dual-element dry type	e, restriction indica	tor in cab monitor for service
Cooling			
Fan Drive	Hydraulically driven, proportionally	controlled, fan aft	of coolers
Electrical			
Electrical System		tional) alternator	24 volt with 80-amp (100-amp optional) alternator
Batteries (2 – 12 volt)	950 CCA (each)		950 CCA (each)
Transmission System			
Туре	Countershaft-type PowerShift™		
Torque Converter	Single stage, single phase		
Shift Control	Electronically modulated, adaptive,	, load and speed de	ependent
Operator Interface	Steering-column or joystick-mount	ed F-N-R and gear-	select lever; kick-down button on hydraulic lever
Shift Modes	Manual/auto (1st-D or 2nd-D); Qu	ick-Shift button wi	th 2 selectable modes: kick-down or kick-up/down;
	and 3 adjustable clutch-cutoff sett	ings	·
Maximum Travel Speeds (with 17.5 R 25 tires)	Forward	Reverse	
Range 1	7.3 km/h (4.5 mph)	7.6 km/h (4.7 mp	oh)
Range 2	12.1 km/h (7.5 mph)	13.0 km/h (8.1 m	nph)
Range 3	23.1 km/h (14.4 mph)	24.2 km/h (15.0	mph)
Range 4	36.0 km/h (22.4 mph)	N/A	• •
Axles/Brakes	· · · · · · · · · · · · · · · · · · ·		
Final Drives	Heavy-duty midboard planetary		
Differentials		ntional rear – stanc	lard; dual locking front and rear – optional
Rear Axle Oscillation, Stop to Stop (with 17.5 R 25 tires)	24 deg. (12 deg. each direction)		э. э, э. э
Service Brakes (conform to ISO 3450)	Outboard, forced oil cooled, multi o	disc	
Parking Brakes (conform to ISO 3450)			eline mounted, sealed wet multi disc
Tires/Wheels (see page 20 for complete tire adjustments)	riacomatic spring applica, nyaraani	any rereased, arm	e mounted, seared wet main disc
The Salar Constitution of the Constitution of	Tread Width	Width Over Tires	
Michelin 17.5 R 25, 1 Star L-3	1900 mm (74.8 in.)	2415 mm (95.1 i	
Serviceability	1500 11111 (7 4.0 111.)	2413 111111 (33.11	111.)
Refill Capacities	EPA FT4/EU Stage IV	EPA Tier 3/EU Sta	ane IIIA
Fuel Tank (with lockable cap)	220 L (60 gal.)	220 L (60 gal.)	age IIIA
Cooling System	19 L (20 qt.)	19 L (20 gt.)	
Diesel Exhaust Fluid (DEF)		N/A	
, ,	19 L (20 qt.)		
Engine Oil with Vertical Spin-On Filter	14.5 L (15.3 qt.)	17.5 L (18.5 qt.)	
Transmission Reservoir with Vertical Filter	18.5 L (19.5 qt.)	18.5 L (19.5 qt.)	
Axle Oil (front and rear, each)	22 L (23 qt.)	22 L (23 qt.)	
Hydraulic Reservoir and Filter	118.7 L (31.4 gal.)	92 L (24.3 gal.)	
Park Brake Oil (wet disc)	0.3 L (10 oz.)	0.3 L (10 oz.)	
Hydraulic System/Steering	W + 11 1: 1		
Pump (loader and steering)		pump; closed-cen	ter, pressure-compensating system
Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,350 rpm	140 L/m (37 gpm)		
System Relief Pressure (loader and steering)	24 821 kPa (3,600 psi)		
Loader Controls	2-function valve; joystick control or 4th-function valve with auxiliary lev		; hydraulic-function enable/disable; optional 3rd- and
Steering (conforms to ISO 5010)	Steering-column-mounted, twist-g		k-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)	4.74 m (15 ft. 7 in.)		



Hydraulic System/Steering (continued)	444K Z-BAR / HIGH-LIFT /	444K Z-BAR / HIGH-LIFT / POWERLLEL		
Hydraulic Cycle Times	Z-Bar / High-Lift	Powerllel		
Raise	5.9 sec.	5.3 sec.		
Dump	1.0 sec.	1.1 sec.		
Lower (float down)	2.4 sec.	1.9 sec.		
Total	9.3 sec.	8.3 sec.		
Dimensions and Specifications with Pin-On Ru	icket			

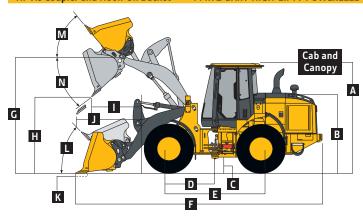


## 444K Z-BAR AND HIGH-LIFT LOADERS WITH PIN-ON BUCKET

	Z-Bar	High-Lift
Dimensions with Bucket	1.9-m³ (2.5 cu. yd.) general-purpose with bolt-on edge	1.9-m³ (2.5 cu. yd.) general-purpose with bolt-on edge
A Height to Top of Cab and Canopy	3.17 m (10 ft. 5 in.)	3.17 m (10 ft. 5 in.)
B Hood Height	2.27 m (7 ft. 5 in.)	2.27 m (7 ft. 5 in.)
C Ground Clearance	393 mm (15.5 in.)	393 mm (15.5 in.)
D Length from Centerline to Front Axle	1.37 m (4 ft. 6 in.)	1.37 m (4 ft. 6 in.)
E Wheelbase	2.76 m (9 ft. 6 in.)	2.76 m (9 ft. 6 in.)
F Overall Length, Bucket on Ground	6.86 m (22 ft. 6 in.)	7.20 m (23 ft. 7 in.)
G Height to Hinge Pin, Fully Raised	3.60 m (11 ft. 10 in.)	3.99 m (13 ft. 1 in.)
H Dump Clearance, 45 deg., Full Height	2.67 m (8 ft. 9 in.)	3.03 m (9 ft. 11 in.)
I Reach, 45-deg. Dump, Full Height	1.04 m (3 ft. 5 in.)	1.04 m (3 ft. 5 in.)
J Reach, 45-deg. Dump, 2.13-m (7 ft. 0 in.) Clearance	1.44 m (4 ft. 9 in.)	1.74 m (5 ft. 9 in.)
K Maximum Digging Depth	105 mm (4.1 in.)	105 mm (4.1 in.)
L Maximum Rollback at Ground Level	41 deg.	41 deg.
M Maximum Rollback, Boom Fully Raised	55 deg.	50 deg.
N Maximum Bucket Dump Angle, Fully Raised	50 deg.	45 deg.
Loader Clearance Circle, Bucket Carry Position	11.07 m (36 ft. 4 in.)	11.39 m (37 ft. 5 in.)
Specifications with Bucket		
Capacity, Heaped	1.9 m³ (2.5 cu. yd.)	1.9 m³ (2.5 cu. yd.)
Capacity, Struck	1.6 m³ (2.1 cu. yd.)	1.6 m³ (2.1 cu. yd.)
Bucket Weight with Bolt-On Cutting Edge	888 kg (1,958 lb.)	888 kg (1,958 lb.)
Bucket Width	2.54 m (8 ft. 4 in.)	2.54 m (8 ft. 4 in.)
Breakout Force	7960 kg (17,549 lb.)	7345 kg (16,193 lb.)
Tipping Load, Straight, No Tire Deflection	9263 kg (20,421 lb.)	7955 kg (17,538 lb.)
Tipping Load, Straight, with Tire Deflection	8736 kg (19,260 lb.)	7545 kg (16,634 lb.)
Tipping Load, 40-deg. Full Turn, No Tire Deflection	8080 kg (17,813 lb.)	6914 kg (15,243 lb.)
Tipping Load, 40-deg. Full Turn, with Tire Deflection	7437 kg (16,396 lb.)	6399 kg (14,107 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, No Tire Deflection (conforms to ISO 14397-1)*	4040 kg (8,907 lb.)	3457 kg (7,621 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, with Tire Deflection (conforms to ISO 14397-1)*	3718 kg (8,197 lb.)	3199 kg (7,053 lb.)
Operating Weight	11 350 kg (25,022 lb.)	11 538 kg (25,360 lb.)
the decrease of the total and the second sec	ith identified linkage and standard equipment DowerTes	L DCC / O/F /FDA F: I T: / /FILC: IV/ DODG

Loader operating information is based on machine with identified linkage and standard equipment, PowerTech PSS 4045 (EPA Final Tier 4/EU Stage IV) 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.

<sup>\*</sup>Rated operating capacity based on Deere attachments only.



Cab and Canopy
A

D
C
F

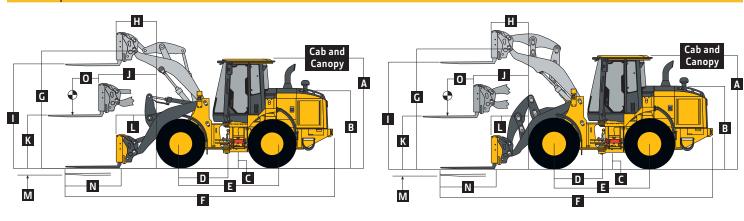
444K Z-BAR AND HIGH-LIFT LOADERS WITH QUICK-COUPLER AND HOOK-ON BUCKET

444K POWERLLEL LOADER WITH QUICK-COUPLER
AND HOOK-ON BUCKET

	Z-Bar	Z-Bar	High-Lift	High-Lift	Powerllel	Powerllel
Dimensions with Bucket	1.9-m³ (2.5 cu. yd.) general-purpose with bolt-on edge	3.1-m³ (4.0 cu. yd.) light-material with bolt-on edge	1.9-m³ (2.5 cu. yd.) general-purpose with bolt-on edge	3.1-m³ (4.0 cu. yd.) light-material with bolt-on edge	1.9-m³ (2.5 cu. yd.) general-purpose with bolt-on edge	3.1-m³ (4.0 cu. yd. light-material witl bolt-on edge
A Height to Top of Cab and Canopy	3.17 m (10 ft. 5 in.)	3.17 m (10 ft. 5 in.)	3.17 m (10 ft. 5 in.)	3.17 m (10 ft. 5 in.)	3.17 m (10 ft. 5 in.)	3.17 m (10 ft. 5 in.
B Hood Height	2.27 m (7 ft. 5 in.)	2.27 m (7 ft. 5 in.)	2.27 m (7 ft. 5 in.)	2.27 m (7 ft. 5 in.)	2.27 m (7 ft. 5 in.)	2.27 m (7 ft. 5 in.)
Ground Clearance	393 mm (15.5 in.)	393 mm (15.5 in.)	393 mm (15.5 in.)	393 mm (15.5 in.)	393 mm (15.5 in.)	393 mm (15.5 in.)
Length from Centerline to Front Axle	1.37 m (4 ft. 6 in.)	1.37 m (4 ft. 6 in.)	1.37 m (4 ft. 6 in.)	1.37 m (4 ft. 6 in.)	1.37 m (4 ft. 6 in.)	1.37 m (4 ft. 6 in.)
E Wheelbase	2.76 m (9 ft. 6 in.)	2.76 m (9 ft. 1 in.)	2.76 m (9 ft. 6 in.)	2.76 m (9 ft. 1 in.)	2.76 m (9 ft. 6 in.)	2.76 m (9 ft. 1 in.)
F Overall Length, Bucket on Ground	7.05 m (23 ft. 1 in.)	7.31 m (23 ft. 11.8 in.)	7.38 m (24 ft. 3 in.)	7.63 m (25 ft. 0 in.)	7.15 m (23 ft. 5 in.)	7.40 m (24 ft. 3 in.)
G Height to Hinge Pin, Fully Raised	3.60 m (11 ft. 10 in.)	3.60 m (11 ft. 10 in.)	3.99 m (13 ft. 1 in.)	3.99 m (13 ft. 1 in.)	3.67 m (12 ft. 0 in.)	3.67 m (12 ft. 0 in
d Dump Clearance, 45 deg., Full Height	2.54 m (8 ft. 4 in.)	2.34 m (7 ft. 8 in.)	2.90 m (9 ft. 6 in.)	2.71 m (8 ft. 11 in.)	2.58 m (8 ft. 5 in.)	2.36 m (7 ft. 9 in.)
l Reach, 45-deg. Dump, Full Height	1.15 m (3 ft. 9 in.)	1.23 m (4 ft. 0 in.)	1.15 m (3 ft. 9 in.)	1.26 m (4 ft. 2 in.)	1.14 m (3 ft. 9 in.)	1.32 m (4 ft. 4 in.)
J Reach, 45-deg. Dump, 2.13-m (7 ft. 0 in.) Clearance	1.47 m (4 ft. 10 in.)	1.41 m (4 ft. 7.5 in.)	1.78 m (5 ft. 10 in.)	1.75 m (5 ft. 9 in.)	1.51 m (4 ft. 11 in.)	1.52 m (5 ft. 0 in.)
K Maximum Digging Depth	139 mm (5.0 in.)	258 mm (10.0 in.)	148 mm (5.8 in.)	258 mm (10.0 in.)	119 mm (4.7 in.)	260 mm (10.2 in.)
L Maximum Rollback at Ground Level	41 deg.	41 deg.	41 deg.	40 deg.	43 deg.	43 deg.
M Maximum Rollback, Boom Fully Raised	55 deg.	56 deg.	49 deg.	51 deg.	51 deg.	53 deg.
N Maximum Bucket Dump Angle, Fully Raised	50 deg.	49 deg.	45 deg.	45 deg.	50 deg.	48 deg.
Loader Clearance Circle, Bucket Carry	11.19 m	11.65 m	11.47 m	11.93 m	11.23 m	11.78 m
Position	(36 ft. 9 in.)	(38 ft. 3 in.)	(37 ft. 7 in.)	(39 ft. 2 in.)	(36 ft. 10 in.)	(38 ft. 8 in.)
Specifications with Bucket						
Capacity, Heaped	1.9 m³ (2.5 cu. yd.)	3.1 m <sup>3</sup> (4.0 cu. yd.)	1.9 m³ (2.5 cu. yd.)	3.1 m <sup>3</sup> (4.0 cu. yd.)	1.9 m³ (2.5 cu. yd.)	3.1 m <sup>3</sup> (4.0 cu. yd.
Capacity, Struck	1.6 m³ (2.1 cu. yd.)	2.59 m <sup>3</sup> (3.4 cu. yd.)	1.6 m³ (2.1 cu. yd.)	2.59 m <sup>3</sup> (3.4 cu. yd.)	1.6 m³ (2.1 cu. yd.)	2.59 m³ (3.4 cu. yd
Bucket Weight with Bolt-On Cutting Edge	1290 kg (2,844 lb.)	1627 kg (3,587 lb.)	1290 kg (2,844 lb.)	1627 kg (3,587 lb.)	1262 kg (2,782 lb.)	1638 kg (3,611 lb
Bucket Width	2.54 m (8 ft. 4 in.)	2.89 m (9 ft. 6 in.)	2.54 m (8 ft. 4 in.)	2.89 m (9 ft. 6 in.)	2.54 m (8 ft. 4 in.)	2.89 m (9 ft. 6 in.)
Breakout Force	6659 kg (14,681 lb.)	5451 kg (12,017 lb.)	6136 kg (13,528 lb.)	5063 kg (11,162 lb.)	6056 kg (13,352 lb.)	5562 kg (12,262 lb
Tipping Load, Straight, No Tire Deflection	8320 kg (18,342 lb.)	7792 kg (17,178 lb.)	7136 kg (15,732 lb.)	6634 kg (14,625 lb.)	7272 kg (16,032 lb.)	6708 kg (14,788 lb
Tipping Load, Straight, with Tire Deflection	7839 kg (17,282 lb.)	7314 kg (16,125 lb.)	6756 kg (14,894 lb.)	6252 kg (13,783 lb.)	6879 kg (15,166 lb.)	6321 kg (13,935 lb
Tipping Load, 40-deg. Full Turn, No Tire Deflection	7209 kg (15,893 lb.)	6701 kg (14,773 lb.)	6151 kg (13,561 lb.)	5668 kg (12,496 lb.)	6270 kg (13,823 lb.)	5733 kg (12,639 lb
Tipping Load, 40-deg. Full Turn, with Tire Deflection	6615 kg (14,584 lb.)	6108 kg (13,466 lb.)	5676 kg (12,513 lb.)	5196 kg (11,455 lb.)	5778 kg (12,738 lb.)	5250 kg (11,574 lb
Rated Operating Load, 50% Full-Turn Tipping Load, No Tire Deflection (conforms to ISO 14397-1)*	3604 kg (7,945 lb.)	3350 kg (7,385 lb.)	3076 kg (6,781 lb.)	2834 kg (6,248 lb.)	3135 kg (6,911 lb.)	2867 kg (6,321 lb
Rated Operating Load, 50% Full-Turn Tipping Load, with Tire Deflection (conforms to ISO 14397-1)*	3307 kg (7,291 lb.)	3	2838 kg (6,257 lb.)	3	2889 kg (6,369 lb.)	2625 kg (5,787 lb
Operating Weight	11 752 kg (25,909 lb.)	12 088 kg (26,649 lb.)	11 940 kg (26,323 lb.)	12 277 kg (27,066 lb.)	12 412 kg (27,364 lb.)	12 748 kg (28,104 lb.)

Loader operating information is based on machine with identified linkage and standard equipment, PowerTech PSS 4045 (EPA Final Tier 4/EU Stage IV) 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.

<sup>\*</sup>Rated operating capacity based on Deere attachments only.



## 444K Z-BAR AND HIGH-LIFT LOADERS WITH QUICK-COUPLER AND HOOK-ON CONSTRUCTION FORKS

## 444K POWERLLEL LOADER WITH QUICK-COUPLER AND HOOK-ON CONSTRUCTION FORKS

	Z-Bar	Z-Bar	High-Lift	High-Lift	Powerllel	Powerllel
Dimensions with Forks	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.)
	tine length					
A Height to Top of Cab and Canopy	3.17 m (10 ft. 5 in.)					
B Hood Height	2.27 m (7 ft. 5 in.)					
C Ground Clearance	393 mm (15.5 in.)					
<b>D</b> Length from Centerline to Front Axle	1.37 m (4 ft. 6 in.)					
E Wheelbase	2.76 m (9 ft. 6 in.)					
F Overall Length, Forks on Ground	7.45 m (24 ft. 5 in.)	7.77 m (25 ft. 6 in.)	7.79 m (25 ft. 7 in.)	8.09 m (26 ft. 6 in.)	7.52 m (24 ft. 8 in.)	7.82 m (25 ft. 8 in.
<b>G</b> Height to Hinge Pin, Fully Raised	3.60 m (11 ft. 10 in.)	3.60 m (11 ft. 10 in.)	3.99 m (13 ft. 1 in.)	3.99 m (13 ft. 1 in.)	3.67 m (12 ft. 0 in.)	3.67 m (12 ft. 0 in.
H Reach, Fully Raised	0.86 m (34 in.)					
I Fork Height, Fully Raised	3.44 m (11 ft. 3 in.)	3.44 m (11 ft. 3 in.)	3.79 m (12 ft. 5 in.)	3.79 m (12 ft. 5 in.)	3.51 m (11 ft. 6 in.)	3.51 m (11 ft. 6 in.
J Maximum Reach, Fork Level	1.57 m (5 ft. 2 in.)	1.57 m (5 ft. 2 in.)	1.84 m (6 ft. 0 in.)	1.84 m (6 ft. 0 in.)	1.63 m (5 ft. 4 in.)	1.63 m (5 ft. 4 in.)
K Fork Height, Maximum Reach	1.69 m (5 ft. 6 in.)	1.69 m (5 ft. 6 in.)	1.70 m (5 ft. 7 in.)	1.70 m (5 ft. 7 in.)	1.73 m (5 ft. 8 in.)	1.73 m (5 ft. 8 in.)
L Reach, Ground Level	0.97 m (3 ft. 2 in.)	0.97 m (3 ft. 2 in.)	1.31 m (4 ft. 4 in.)	1.31 m (4 ft. 4 in.)	0.96 m (3 ft. 2 in.)	0.96 m (3 ft. 2 in.)
M Depth Below Ground	107 mm (4.2 in.)	107 mm (4.2 in.)	16 mm (0.6 in.)	16 mm (0.6 in.)	2 mm (0.1 in.)	2 mm (0.1 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.)
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.)
Specifications with Forks						
Tipping Load, Straight, No Tire Deflection	6162 kg (13,585 lb.)	5806 kg (12,800 lb.)	5567 kg (12,273 lb.)	5263 kg (11,603 lb.)	5796 kg (12,778 lb.)	5472 kg (12,064 lb.
Tipping Load, Straight, with Tire Deflection	5979 kg (13,181 lb.)	5637 kg (12,427 lb.)	5409 kg (11,925 lb.)	5118 kg (11,283 lb.)	5613 kg (12,374 lb.)	5301 kg (11,687 lb.
Tipping Load, 40-deg. Full Turn, No Tire Deflection	5360 kg (11,817 lb.)	5044 kg (11,120 lb.)	4823 kg (10,633 lb.)	4554 kg (10,040 lb.)	5022 kg (11,072 lb.)	4734 kg (10,437 lb.
Tipping Load, 40-deg. Full Turn, with Tire Deflection	5115 kg (11,277 lb.)	4818 kg (10,622 lb.)	4611 kg (10,165 lb.)	4359 kg (9,610 lb.)	4791 kg (10,562 lb.)	4512 kg (9,947 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, with Tire Deflection (conforms to ISO 14397-1 and SAE J1197)*	2557 kg (5,637 lb.)	2409 kg (5,311 lb.)	2305 kg (5,082 lb.)	2179 kg (4,804 lb.)	2395 kg (5,280 lb.)	2256 kg (4,977 lb.)
Rated Operating Load, Rough Terrain, 60% Full-Turn Tipping Load, with Tire Deflection (conforms to EN474-3)*	3069 kg (6,766 lb.)	2891 kg (6,374 lb.)	2767 kg (6,100 lb.)	2615 kg (5,765 lb.)	2874 kg (6,336 lb.)	2707 kg (5,968 lb.)
Rated Operating Load, Firm and Level Ground, 80% Full-Turn Tipping Load, with Tire Deflection (conforms to EN474-3)*	4092 kg (9,021 lb.)	3854 kg (8,497 lb.)	3689 kg (8,133 lb.)	3487 kg (7,687 lb.)	3833 kg (8,450 lb.)	3610 kg (7,959 lb.
Operating Weight	11 450 kg (25,243 lb.)	11 493 kg (25,338 lb.)	11 638 kg (25,657 lb.)	11 681 kg (25,752 lb.)	12 121 kg (26,722 lb.)	12 164 kg (26,817 lb.)

Loader operating information is based on machine with identified linkage and standard equipment, PowerTech PSS 4045 (EPA Final Tier 4/EU Stage IV) 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.

<sup>\*</sup>Rated operating capacity based on Deere attachments only.

## **Adjustments to Operating Weights**

and Tipping Loads with Buckets

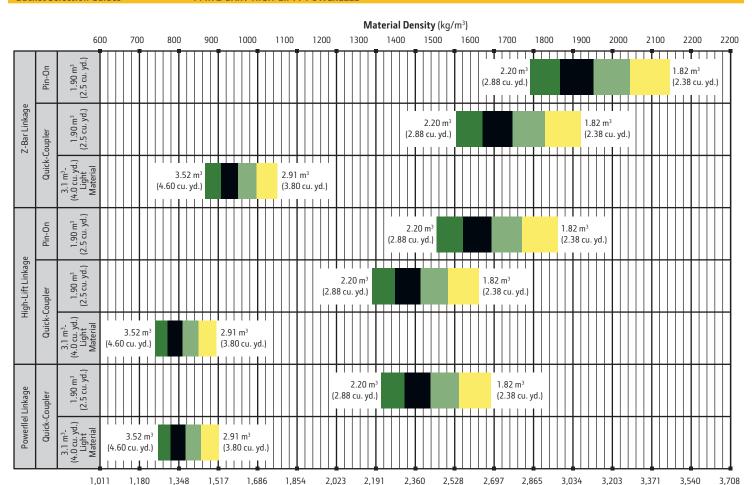
444K Z-BAR / HIGH-LIFT / POWERLLEL

Adjustments to operating weights, tipping loads, and tires are based on Z-Bar machine with pin-on 1.9-m³ (2.5 cu. yd.) general-purpose 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
John Deere PowerTech PSS 4045	0 kg (0 lb.)	0 kg (0 lb.)	0 kg (0 lb.)	N/A	N/A	N/A
John Deere PowerTech E 4045H		- 1.5 (- 1-1)				
Z-Bar	+63 kg (+139 lb.)	+277 kg (+610 lb.)	+222 kg (+489 lb.)	N/A	N/A	N/A
High-Lift	+24 kg (+53 lb.)	+157 kg (+346 lb.)	+123 kg (+271 lb.)	N/A	N/A	N/A
Michelin 17.5 R 25, 1 Star L-3	0 kg (0 lb.)	0 kg (0 lb.)	0 kg (0 lb.)	0 mm (0 in.)	0 mm (0 in.)	0 mm (0 in.)
Michelin 17.5 R 25, 1 Star L-2	–100 kg (–220 lb.)	–71 kg (–157 lb.)	-64 kg (-141 lb.)	0 mm (0 in.)	+10 mm (+0.4 in.)	-4 mm (-0.2 in.)
Bridgestone 17.5 R 25, 1 Star L-2	+32 kg (+71 lb.)	+23 kg (+50 lb.)	+20 kg (+44 lb.)	0 mm (0 in.)	+10 mm (+0.4 in.)	-4 mm (-0.2 in.)
Titan 17.5 R 25, 1 Star L-2	–32 kg (–71 lb.)	– 23 kg (–50 lb.)	–20 kg (–44 lb.)	0 mm (0 in.)	+10 mm (+0.4 in.)	-4 mm (-0.2 in.)
Firestone 17.5-25, 12 PR L-3	-184 kg (-406 lb.)	-130 kg (-287 lb.)	-118 kg (-260 lb.)	0 mm (0 in.)	–9 mm (–0.4 in.)	+6 mm (+0.2 in.)
Firestone 17.5-25, 12 PR L-2	-176 kg (-388 lb.)	–125 kg (–275 lb.)	–113 kg (–249 lb.)	0 mm (0 in.)	–9 mm (–0.4 in.)	+5 mm (+0.2 in.)
Firestone 20.5-25, 12 PR L-2§8	+56 kg (+123 lb.)	+40 kg (+88 lb.)	+36 kg (+79 lb.)	+50 mm (+2 in.)	+124 mm (+4.9 in.)	+66 mm (+2.6 in.)
Titan 20.5-25, 12 PR L-2 <sup>§®</sup>	+96 kg (+212 lb.)	+68 kg (+150 lb.)	+61 kg (+134 lb.)	+50 mm (+2 in.)	+124 mm (+4.9 in.)	+66 mm (+2.6 in.)
Michelin 20.5 R 25, 1 Star L-2 <sup>§g</sup>	+204 kg (+450 lb.)	+145 kg (+320 lb.)	+130 kg (+287 lb.)	+50 mm (+2 in.)	+118 mm (+4.6 in.)	+58 mm (+2.3 in.)
Bridgestone 20.5 R 25, 1 Star L-2 <sup>§®</sup>	+296 kg (+653 lb.)	+211 kg (+464 lb.)	+189 kg (+417 lb.)	+50 mm (+2 in.)	+118 mm (+4.6 in.)	+58 mm (+2.3 in.)
Titan 20.5 R 25, 1 Star L-2 <sup>§®</sup>	+276 kg (+608 lb.)	+196 kg (+433 lb.)	+176 kg (+388 lb.)	+50 mm (+2 in.)	+118 mm (+4.6 in.)	+58 mm (+2.3 in.)
Michelin 20.5 R 25 L2 Sno-Plus <sup>®</sup>	+260 kg (+573 lb.)	+185 kg (+408 lb.)	+163 kg (+359 lb.)	+50 mm (+2 in.)	+86 mm (+3.4 in.)	+63 mm (+2.5 in.)
CaCl <sub>2</sub> in 17.5-25 Rear Tires, 75% Fill	+537 kg (+1,183 lb.)	+639 kg (+1,409 lb.)	+564 kg (+1,243 lb.)	N/A	N/A	N/A
	(דו, וטו נטו.)	(T1,403 ID.)	(T1,243 ID.)			

<sup>\*</sup>May change based on vehicle configuration, weight, or tire-pressure adjustments. §CaCl<sub>2</sub> not recommended.

<sup>&</sup>lt;sup>®</sup>Requires 8-deg. rear axle stops.



Material Density (lb./cu.yd.)

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") size	1442	2,430
Gypsum	2275	3,834	Stone or gravel, 18.75-mm (3/4") size	1602	2,700



Engine	524K Z-BAR / HIGH-LIFT		
Manufacturer and Model	John Deere PowerTech™ PVS 6068		John Deere PowerTech™ E 6068H
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV		EPA Tier 3/EU Stage IIIA
Cylinders	6		6
Valves Per Cylinder	4		2
Displacement	6.8 L (414 cu. in.)		6.8 L (414 cu. in.)
Net Peak Power (ISO 9249)	105 kW (141 hp) at 1,700 rpm		110 kW (146 hp) at 2,000 rpm
Net Peak Torque (ISO 9249)	623 Nm (459 lbft.) at 1,200 rpm		607 Nm (448 lbft.) at 1,600 rpm
Net Teak Torque Rise	50%		47%
Fuel System (electronically controlled)	High-pressure common rail		High-pressure common rail
Lubrication	Full-flow spin-on filter and integral	cooler	Full-flow spin-on filter and integral cooler
Aspiration	Turbocharged, charge air cooled	COOIEI	Turbocharged, charge air cooled
Air Cleaner	Under-hood, dual-element dry type	rostriction indica	
Cooling	onder-nood, dual-element dry type	e, restriction muica	tol III cap illollitol fol Selvice
Fan Drive	Hydraulically driven, propertionally	controlled for off	t of coolers
	Hydraulically driven, proportionally	Controlled, fall all	L OT COOLETS
Electrical	7/	+:I\ - ++	2/
Electrical System	24 volt with 100-amp (130-amp op	tional) alternator	24 volt with 80-amp (100-amp optional) alternator
Batteries (2 – 12 volt)	950 CCA (each)		950 CCA (each)
Transmission System	C · L C· · D · Cl·C·TM		
Туре	Countershaft-type PowerShift™		
Torque Converter	Single stage, single phase		
Shift Control	Electronically modulated, adaptive		
Operator Interface			-select lever; Quick-Shift button on hydraulic lever
Shift Modes	Manual/auto (1st–D or 2nd–D); Qu and 3 adjustable clutch-cutoff sett	ick-Shift button wi ings	th 2 selectable modes: kick-down or kick-up/down;
Maximum Travel Speeds (with 20.5 R 25 tires)	Forward	Reverse	
Range 1	7.0 km/h (4.4 mph)	7.3 km/h (4.5 mp	oh)
Range 2	12.0 km/h (7.5 mph)	12.6 km/h (7.8 m	nph)
Range 3	23.0 km/h (14.3 mph)	24.1 km/h (15.0	mph)
Range 4	36.0 km/h (22.4 mph)	N/A	
Axles/Brakes			
Final Drives	Heavy-duty inboard-mounted plane	etary	
Differentials	Hydraulic locking front with conver	ntional rear – stand	dard; dual locking front and rear – optional
Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires)	24 deg. (12 deg. each direction)		
Service Brakes (conform to ISO 3450)	Hydraulically actuated, inboard sur	n-shaft mounted, o	il cooled, single disc
Parking Brakes (conform to ISO 3450)			eline mounted, sealed wet multi disc
Tires/Wheels (see page 26 for complete tire adjustments)			
	Tread Width	Width Over Tires	ī
Michelin 20.5 R 25, 1 Star L-3	1950 mm (76.8 in.)	2546 mm (100.2	in.)
Serviceability		·	
Refill Capacities	EPA FT4/EU Stage IV	EPA Tier 3/EU Sta	age IIIA
Fuel Tank (with lockable cap)	220 L (58 gal.)	220 L (58 gal.)	
Cooling System	23.5 L (24.8 qt.)	22.5 L (23.8 qt.)	
Diesel Exhaust Fluid (DEF)	19 L (20 qt.)	N/A	
Engine Oil with Vertical Spin-On Filter	19.5 L (20.6 qt.)	19 L (20 qt.)	
Transmission Reservoir with Vertical Filter	21.5 L (22.7 qt.)	21.5 L (22.7 qt.)	
Axle Oil (front and rear, each)	17 L (18 gt.)	17 L (18 qt.)	
Hydraulic Reservoir and Filter	118.7 L (31.4 gal.)	92 L (24.3 gal.)	
Park Brake Oil (wet disc)	0.3 L (10 oz.)	0.3 L (10 oz.)	
Hydraulic System/Steering	0.5 2 (10 02.)	3.3 E (10 02.)	
Pump (loader and steering)	Variable-displacement avial-piston	numn: closed-con	ter, pressure-compensating system
Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,350 rpm	165 L/m (44 gpm)	i pump, ciosea-cen	ter, pressure-compensating system
System Relief Pressure (loader and steering)	24 994 kPa (3,625 psi)		
Loader Controls			; hydraulic-function enable/disable; optional 3rd- and
Steering (conforms to ISO 5010)	Steering-column-mounted, twist-g		-k-Shift hutton on hydraulic lever
	Power, fully hydraulic	inp simit iever, Quit	
	. SWCI. IUIIV IIVUI AUIIC		
Type Articulation Angle		1	
Articulation Angle Turning Radius (measured to centerline of outside tire)	80-deg. arc (40 deg. each direction 5.0 m (16 ft. 5 in.)	)	



Hydraulic System/Steering (continued)	524K Z-BAR / HIGH-LIFT
Hydraulic Cycle Times	Z-Bar / High-Lift
Raise	6.1 sec.
Dump	1.4 sec.
Lower (float down)	3.0 sec.
Total	10.5 sec.
Dimensions and Specifications with Pin-On Bu	cket

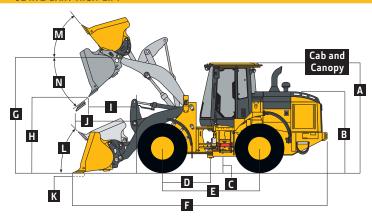
# Cab and Canopy A B Cab and Canopy A Cab and Canopy

## 524K Z-BAR AND HIGH-LIFT LOADERS WITH PIN-ON BUCKET

ose with bolt-on edge

Loader operating information is based on machine with identified linkage and standard equipment, PowerTech PVS 6068 (EPA Final Tier 4/EU Stage IV) 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.

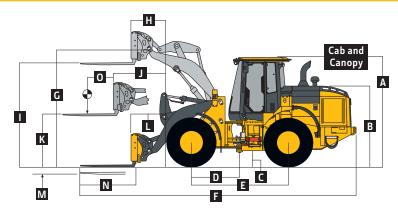
<sup>\*</sup>Rated operating capacity based on Deere attachments only.



524K Z-BAR AND HIGH-LIFT LOADERS WITH QUICK-COUPLER AND HOOK-ON BUCKET

	Z-Bar	Z-Bar	High-Lift	High-Lift
Dimensions with Bucket	2.1-m³ (2.75 cu. yd.) general- purpose with bolt-on edge	3.1-m³ (4.0 cu. yd.) light- material with bolt-on edge	2.1-m³ (2.75 cu. yd.) general- purpose with bolt-on edge	3.1-m³ (4.0 cu. yd.) light- material with bolt-on edge
A Height to Top of Cab and Canopy	3.25 m (10 ft. 8 in.)	3.25 m (10 ft. 8 in.)	3.25 m (10 ft. 8 in.)	3.25 m (10 ft. 8 in.)
<b>B</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.)
<b>D</b> 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	7.57 m (24 ft. 10 in.)	7.73 m (24 ft. 6 in.)	7.90 m (25 ft. 11 in.)	8.05 m (25 ft. 7 in.)
G Height to Hinge Pin, Fully Raised	3.77 m (12 ft. 5 in.)	3.77 m (12 ft. 5 in.)	4.12 m (13 ft. 6 in.)	4.12 m (13 ft. 6 in.)
H Dump Clearance, 45 deg., Full Height	2.61 m (8 ft. 7 in.)	2.50 m (8 ft. 2 in.)	2.96 m (9 ft. 8 in.)	2.80 m (9 ft. 2 in.)
I Reach, 45-deg. Dump, Full Height	1.10 m (3 ft. 7 in.)	1.11 m (3 ft. 8 in.)	1.11 m (3 ft. 8 in.)	1.13 m (3 ft. 8 in.)
J Reach, 45-deg. Dump, 2.13-m (7 ft. 0 in.) Clearance	1.47 m (4 ft. 10 in.)	1.40 m (4 ft. 7 in.)	1.77 m (5 ft. 10 in.)	1.71 m (5 ft. 7 in.)
K Maximum Digging Depth	146 mm (5.7 in.)	225 mm (8.8 in.)	226 mm (10.3 in.)	307 mm (12.08 in.)
L Maximum Rollback at Ground Level	40 deg.	41 deg.	45 deg.	41 deg.
M Maximum Rollback, Boom Fully Raised	54 deg.	55 deg.	48 deg.	48 deg.
N Maximum Bucket Dump Angle, Fully Raised	48 deg.	51 deg.	48 deg.	47 deg.
Loader Clearance Circle, Bucket Carry Position	11.77 m (38 ft. 7 in.)	12.13 m (39 ft. 9 in.)	12.08 m (39 ft. 8 in.)	12.47 m (40 ft. 11 in.)
Specifications with Bucket				
Capacity, Heaped	2.1 m <sup>3</sup> (2.75 cu. yd.)	3.1 m <sup>3</sup> (4.0 cu. yd.)	2.1 m <sup>3</sup> (2.75 cu. yd.)	3.1 m <sup>3</sup> (4.0 cu. yd.)
Capacity, Struck	1.7 m <sup>3</sup> (2.27 cu. yd.)	2.59 m³ (3.4 cu. yd.)	1.7 m <sup>3</sup> (2.27 cu. yd.)	2.59 m <sup>3</sup> (3.4 cu. yd.)
Bucket Weight with Bolt-On Cutting Edge	1421 kg (3,133 lb.)	1693 kg (3,732 lb.)	1421 kg (3,133 lb.)	1693 kg (3,732 lb.)
Bucket Width	2.54 m (8 ft. 4 in.)	2.89 m (9 ft. 6 in.)	2.54 m (8 ft. 4 in.)	2.89 m (9 ft. 6 in.)
Breakout Force	7446 kg (16,415 lb.)	6708 kg (14,789 lb.)	6861 kg (15,126 lb.)	6219 kg (13,710 lb.)
Tipping Load, Straight, No Tire Deflection	9281 kg (20,461 lb.)	8838 kg (19,484 lb.)	8000 kg (17,637 lb.)	7582 kg (16,715 lb.)
Tipping Load, Straight, with Tire Deflection	8823 kg (19,451 lb.)	8382 kg (18,479 lb.)	7635 kg (16,832 lb.)	7221 kg (15,919 lb.)
Tipping Load, 40-deg. Full Turn, No Tire Deflection	8020 kg (17,681 lb.)	7597 kg (16,748 lb.)	6880 kg (15,168 lb.)	6480 kg (14,286 lb.)
Tipping Load, 40-deg. Full Turn, with Tire Deflection	7434 kg (16,389 lb.)	7014 kg (15,463 lb.)	6408 kg (14,127 lb.)	6006 kg (13,241 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, No Tire Deflection (conforms to ISO 14397-1)*	4010 kg (8,840 lb.)	3798 kg (8,373 lb.)	3440 kg (7,583 lb.)	3240 kg (7,143 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, with Tire Deflection (conforms to ISO 14397-1)*	3717 kg (8,195 lb.)	3507 kg (7,732 lb.)	3204 kg (7,064 lb.)	3003 kg (6,620 lb.)
Operating Weight	13 077 kg (28,830 lb.)	13 349 kg (29,429 lb.)	13 286 kg (29,291 lb.)	13 557 kg (29,888 lb.)
Loader operating information is base ROPS cab, rear cast bumper/counterv information is affected by changes in	veight, transmission side-frame	guards, bottom guards, stand		

<sup>\*</sup>Rated operating capacity based on Deere attachments only.



524K Z-BAR AND HIGH-LIFT LOADERS WITH QUICK-COUPLER AND HOOK-ON CONSTRUCTION FORKS

	Z-Bar	Z-Bar	High-Lift	High-Lift
Dimensions with Forks	1.22-m (48 in.) tine length	1.52-m (60 in.) tine length	1.22-m (48 in.) tine length	1.52-m (60 in.) tine length
A Height to Top of Cab and Canopy	3.25 m (10 ft. 8 in.)			
<b>B</b> Hood Height	2.30 m (7 ft. 7 in.)			
C Ground Clearance	0.40 m (15.7 in.)			
<b>D</b> Length from Centerline to Front Axle	1.45 m (4 ft. 9 in.)			
<b>E</b> Wheelbase	2.93 m (9 ft. 7 in.)			
F Overall Length, Forks on Ground	7.88 m (25 ft. 10 in.)	8.18 m (26 ft. 10 in.)	8.21 m (26 ft. 11 in.)	8.51 m (27 ft. 11 in.)
<b>G</b> Height to Hinge Pin, Fully Raised	3.77 m (12 ft. 5 in.)	3.77 m (12 ft. 5 in.)	4.12 m (13 ft. 6 in.)	4.12 m (13 ft. 6 in.)
H Reach, Fully Raised	0.80 m (31.3 in.)	0.80 m (31.3 in.)	0.81 m (31.9 in.)	0.81 m (31.9 in.)
I Fork Height, Fully Raised	3.55 m (11 ft. 8 in.)	3.55 m (11 ft. 8 in.)	3.90 m (12 ft. 9 in.)	3.90 m (12 ft. 9 in.)
J Maximum Reach, Fork Level	1.54 m (5 ft. 1 in.)	1.54 m (5 ft. 1 in.)	1.80 m (5 ft. 11 in.)	1.80 m (5 ft. 11 in.)
K Fork Height, Maximum Reach	1.72 m (5 ft. 8 in.)			
L Reach, Ground Level	0.94 m (3 ft. 1 in.)	0.94 m (3 ft. 1 in.)	1.27 m (4 ft. 2 in.)	1.27 m (4 ft. 2 in.)
M Depth Below Ground	16 mm (0.6 in.)	16 mm (0.6 in.)	95 mm (3.7 in.)	95 mm (3.7 in.)
N Tine Length	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.)
Specifications with Forks				
Tipping Load, Straight, No Tire Deflection	7256 kg (15,997 lb.)	6849 kg (15,099 lb.)	6574 kg (14,493 lb.)	6227 kg (13,728 lb.)
Tipping Load, Straight, with Tire Deflection	7068 kg (15,582 lb.)	6681 kg (14,729 lb.)	6414 kg (14,140 lb.)	6081 kg (13,406 lb.)
Tipping Load, 40-deg. Full Turn, No Tire Deflection	6303 kg (13,896 lb.)	5943 kg (13,102 lb.)	5690 kg (12,544 lb.)	5383 kg (11,867 lb.)
Tipping Load, 40-deg. Full Turn, with Tire Deflection	6054 kg (13,347 lb.)	5718 kg (12,606 lb.)	5472 kg (12,064 lb.)	5175 kg (11,409 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, with Tire Deflection (conforms to ISO 14397-1 and SAE J1197)*	3027 kg (6,673 lb.)	2859 kg (6,303 lb.)	2736 kg (6,032 lb.)	2587 kg (5,703 lb.)
Rated Operating Load, Rough Terrain, 60% Full-Turn Tipping Load, with Tire Deflection (con- forms to EN474-3)*	3632 kg (8,007 lb.)	3431 kg (7,564 lb.)	3283 kg (7,238 lb.)	3105 kg (6,845 lb.)
Rated Operating Load, Firm and Level Ground, 80% Full-Turn Tipping Load, with Tire Deflection (conforms to EN474-3)*	4843 kg (10,677 lb.)	4574 kg (10,084 lb.)	4378 kg (9,652 lb.)	4140 kg (9,127 lb.)
Operating Weight	12 710 kg (28,021 lb.)	12 753 kg (28,115 lb.)	12 918 kg (28,479 lb.)	12 961 kg (28,574 lb.)

Loader operating information is based on machine with identified linkage and standard equipment, PowerTech PVS 6068 (EPA Final Tier 4/EU Stage IV) 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.

<sup>\*</sup>Rated operating capacity based on Deere attachments only.

**Adjustments to Operating Weights** 

and Tipping Loads with Buckets

524K Z-BAR / HIGH-LIFT

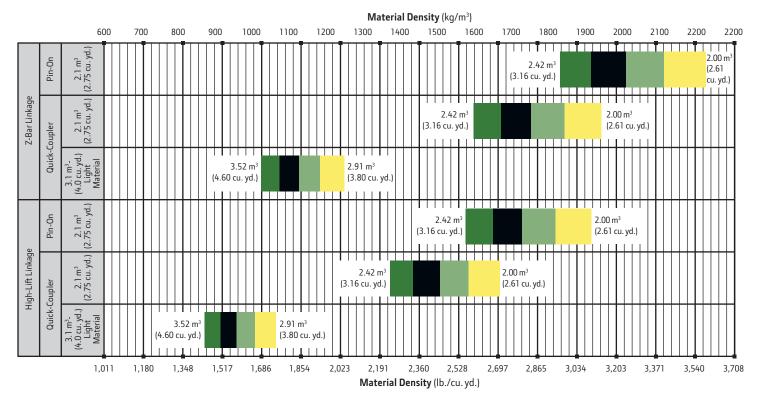
Adjustments to operating weights, tipping loads, and tires are based on Z-Bar machine with pin-on 2.1-m<sup>3</sup> (2.75 cu. yd.) general-purpose bucket with bolt-on cutting edge, ROPS cab, rear cast bumper/counterweight, transmission side-frame guards, bottom guards, standard tires, full fuel tank, and 79-kg (175 lb.) operator\*

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
•	, ,	3	3			3
John Deere PowerTech PVS 6068	0 kg (0 lb.)	0 kg (0 lb.)	0 kg (0 lb.)	N/A	N/A	N/A
John Deere PowerTech E 6068H						
Z-Bar	–1 kg (–2.2 lb.)	+147 kg (+324 lb.)	+113 kg (+249 lb.)	N/A	N/A	N/A
High-Lift	–41 kg (–90 lb.)	+40 kg (+88 lb.)	+25 kg (+55 lb.)	N/A	N/A	N/A
Michelin 20.5 R 25, 1 Star L-3	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	+44 kg (+97 lb.)	+32 kg (+70 lb.)	+28 kg (+62 lb.)	0 mm (0 in.)	–5 mm (–0.2 in.)	–5 mm (–0.2 in.)
Titan 20.5 R 25, 1 Star L-3	–4 kg (–9 lb.)	– 3 kg (–6 lb.)	–2 kg (–5 lb.)	0 mm (0 in.)	–5 mm (–0.2 in.)	–5 mm (–0.2 in.)
Michelin 20.5 R 25, 1 Star L-2	–172 kg (–379 lb.)	–125 kg (–275 lb.)	–110 kg (–242 lb.)	0 mm (0 in.)	–5 mm (–0.2 in.)	–5 mm (–0.2 in.)
Bridgestone 20.5 R 25, 1 Star L-2	–80 kg (–176 lb.)	–58 kg (–128 lb.)	–51 kg (–112 lb.)	0 mm (0 in.)	-5 mm (-0.2 in.)	-5 mm (-0.2 in.)
Titan 20.5 R 25, 1 Star L-2	–100 kg (–220 lb.)	–73 kg (–161 lb.)	–64 kg (–141 lb.)	0 mm (0 in.)	–5 mm (–0.2 in.)	–5 mm (–0.2 in.)
Titan 20.5-25, 16 PR L-2	–260 kg (–573 lb.)	–190 kg (–419 lb.)	–167 kg (–368 lb.)	0 mm (0 in.)	–2 mm (–0.1 in.)	+3 mm (+0.1 in.)
Firestone 20.5-25, 16 PR L-2	–280 kg (–617 lb.)	–204 kg (–450 lb.)	–180 kg (–397 lb.)	0 mm (0 in.)	–2 mm (–0.1 in.)	+3 mm (+0.1 in.)
Firestone 20.5-25, 12 PR L-2	–316 kg (–697 lb.)	–231 kg (–509 lb.)	–203 kg (–448 lb.)	0 mm (0 in.)	-2 mm (-0.1 in.)	+3 mm (+0.1 in.)
Titan 20.5-25, 12 PR L-2	–280 kg (–617 lb.)	–204 kg (–450 lb.)	–180 kg (–397 lb.)	0 mm (0 in.)	–2 mm (–0.1 in.)	+3 mm (+0.1 in.)
Firestone 20.5-25, 16 PR L-3	–252 kg (–556 lb.)	–184 kg (–405 lb.)	–162 kg (–357 lb.)	0 mm (0 in.)	-2 mm (-0.1 in.)	+9 mm (+0.4 in.)
Michelin 20.5 R 25 L2 Sno-Plus	–100 kg (–220 lb.)	–73 kg (–161 lb.)	–64 kg (–141 lb.)	0 mm (0 in.)	+7 mm (+0.28 in.)	–16 mm (–0.6 in.)
620/75R26 MegaXbib <sup>ߣ</sup>	–200 kg (–441 lb.)	–146 kg (–322 lb.)	–129 kg (–284 lb.)	+189 mm (+7.4 in.)	+61 mm (+2.4 in.)	+22 mm (+0.86 in.)
CaCl <sub>2</sub> in 20.5-25, L-3 Rear Tires, 75% Fill	+825 kg (+1,820 lb.)	+1010 kg (+2,227 lb.)	+891 kg (+1,964 lb.)	N/A	N/A	N/A

<sup>\*</sup>May change based on vehicle configuration, weight, or tire-pressure adjustments.

<sup>&</sup>lt;sup>®</sup>Equipped with 5-piece heavy-duty rims.

<sup>&</sup>lt;sup>£</sup>Equipped with 1-piece rims.



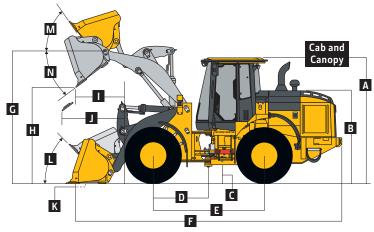
LOOSE MATERIALS	kg/m³	lb./cu. yd.	LOOSE MATERIALS	kg/m³	lb./cu. yd.
Chips, pulpwood	288	486	Limestone, coarse, sized	1570	2,646
Cinders (coal, ashes, clinkers)	673	1,134	Limestone, mixed sizes	1682	2,835
Clay and gravel, dry	1602	2,700	Limestone, pulverized or crushed	1362	2,295
Clay, compact, solid	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") size	1442	2,430
Gypsum	2275	3,834	Stone or gravel, 18.75-mm (3/4") size	1602	2,700



Engine	544K Z-BAR / HIGH-LIFT /	/ POWEDLIFI™						
Manufacturer and Model	John Deere PowerTech™ P		John Deere PowerTech™ E	COCOL				
				. 0000П				
Non-Road Emission Standard	EPA Final Tier 4/EU Stage	IV	EPA Tier 3/EU Stage IIIA					
Cylinders	6		6					
Valves Per Cylinder	4		2					
Displacement	6.8 L (414 cu. in.)		6.8 L (414 cu. in.)					
Net Peak Power (ISO 9249)	121 kW (163 hp) at 1,800	rpm	125 kW (167 hp) at 1,900	rpm				
Net Peak Torque (ISO 9249)	683 Nm (504 lbft.) at 1,1		673 Nm (496 lbft.) at 1,6					
Net Torque Rise	37%		31%					
Fuel System (electronically controlled)	High-pressure common ra	il	High-pressure common ra	il .				
			Full-flow spin-on filter and					
Lubrication	Full-flow spin-on filter and							
Aspiration	Turbocharged, charge air		Turbocharged, charge air					
Air Cleaner	Under-hood, dual-elemen	t dry type, restriction indica	tor in cab monitor for servic	ce				
Cooling								
Fan Drive	Hydraulically driven, propo	ortionally controlled, fan aft	of coolers					
Electrical								
Electrical System	24 volt with 100-amp (130	O-amp optional) alternator	24 volt with 80-amp (100-	-amp optional) alternator				
Batteries (2 – 12 volt)	950 CCA (each)	· ' '	950 CCA (each)	' ' <i>'</i>				
Transmission System	330 cc. (cac,		330 car (cac)					
	Countershaft-type PowerS	Shift™						
Type								
Torque Converter	Single stage, single phase							
Shift Control		adaptive, load and speed de						
Operator Interface		k-mounted F-N-R and gear-						
Shift Modes		d-D); Quick-Shift button wi	th 2 selectable modes: kick-	-down or kick-up/down;				
	and 3 adjustable clutch-cu	ıtoff settings						
	Standard 5-Speed with Lo	ckup Torque Converter	Optional 4-Speed					
Maximum Travel Speeds (with 20.5 R 25 tires)	Forward	Reverse	Forward	Reverse				
Range 1	5.8 km/h (3.6 mph)	6.3 km/h (3.9 mph)	7.0 km/h (4.4 mph)	7.2 km/h (4.5 mph)				
Range 2	12.0 km/h (7.5 mph)	12.7 km/h (7.9 mph)	11.9 km/h (7.4 mph)	12.6 km/h (7.8 mph)				
Range 3	18.6 km/h (11.6 mph)	29.1 km/h (18.1 mph)	22.8 km/h (14.2 mph)	24.1 km/h (15.0 mph)				
3		` ' '						
Range 4	27.7 km/h (17.2 mph)	N/A	35.7 km/h (22.2 mph)	N/A				
Range 5	40.0 km/h (24.9 mph)	N/A	N/A	N/A				
Axles/Brakes								
	and the second second		Heavy-duty inboard-mounted planetary					
Final Drives								
Final Drives Differentials	Hydraulic locking front wi	th conventional rear – stand	lard; dual locking front and	rear – optional				
Final Drives		th conventional rear – stand	lard; dual locking front and	rear – optional				
Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires)	Hydraulic locking front wi 24 deg. (12 deg. each dire	th conventional rear – stand ction)	_	rear – optional				
Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Service Brakes (conform to ISO 3450)	Hydraulic locking front wir 24 deg. (12 deg. each dire Hydraulically actuated, inl	th conventional rear – stanc ction) poard sun-shaft mounted, o	il cooled, single disc					
Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450)	Hydraulic locking front wir 24 deg. (12 deg. each dire Hydraulically actuated, inl	th conventional rear – stand ction)	il cooled, single disc					
Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Service Brakes (conform to ISO 3450)	Hydraulic locking front wi 24 deg. (12 deg. each dire Hydraulically actuated, int Automatic spring applied,	th conventional rear – stanc ction) poard sun-shaft mounted, o hydraulically released, drive	il cooled, single disc lline mounted, sealed wet m					
Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) Tires/Wheels (see page 32 for complete tire adjustments)	Hydraulic locking front wi 24 deg. (12 deg. each dire Hydraulically actuated, int Automatic spring applied, Tread Width	th conventional rear – stand ction) poard sun-shaft mounted, o hydraulically released, drive Width Over Tires	il cooled, single disc lline mounted, sealed wet m					
Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) Tires/Wheels (see page 32 for complete tire adjustments) Michelin 20.5 R 25, 1 Star L-3	Hydraulic locking front wi 24 deg. (12 deg. each dire Hydraulically actuated, int Automatic spring applied,	th conventional rear – stanc ction) poard sun-shaft mounted, o hydraulically released, drive	il cooled, single disc lline mounted, sealed wet m					
Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) Tires/Wheels (see page 32 for complete tire adjustments) Michelin 20.5 R 25, 1 Star L-3 Serviceability	Hydraulic locking front wi 24 deg. (12 deg. each dire Hydraulically actuated, int Automatic spring applied, Tread Width 1950 mm (76.8 in.)	th conventional rear – stand ction) poard sun-shaft mounted, o hydraulically released, drive Width Over Tires 2546 mm (100.2	il cooled, single disc lline mounted, sealed wet m in.)					
Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) Tires/Wheels (see page 32 for complete tire adjustments) Michelin 20.5 R 25, 1 Star L-3 Serviceability Refill Capacities	Hydraulic locking front wi 24 deg. (12 deg. each dire Hydraulically actuated, int Automatic spring applied, Tread Width 1950 mm (76.8 in.)	th conventional rear – stand ction) poard sun-shaft mounted, o hydraulically released, drive Width Over Tires 2546 mm (100.2	il cooled, single disc lline mounted, sealed wet m in.)					
Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) Tires/Wheels (see page 32 for complete tire adjustments) Michelin 20.5 R 25, 1 Star L-3 Serviceability Refill Capacities Fuel Tank (with lockable cap)	Hydraulic locking front wi 24 deg. (12 deg. each dire Hydraulically actuated, int Automatic spring applied, Tread Width 1950 mm (76.8 in.) EPA FT4/EU Stage IV 298 L (79 gal.)	th conventional rear – stand ction) poard sun-shaft mounted, o hydraulically released, drive Width Over Tires 2546 mm (100.2 EPA Tier 3/EU Sta 325 L (86 gal.)	il cooled, single disc lline mounted, sealed wet m in.)					
Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) Tires/Wheels (see page 32 for complete tire adjustments)  Michelin 20.5 R 25, 1 Star L-3 Serviceability Refill Capacities Fuel Tank (with lockable cap) Cooling System	Hydraulic locking front wi 24 deg. (12 deg. each dire Hydraulically actuated, int Automatic spring applied, Tread Width 1950 mm (76.8 in.) EPA FT4/EU Stage IV 298 L (79 gal.) 23.5 L (24.8 qt.)	th conventional rear – stand ction) poard sun-shaft mounted, o hydraulically released, drive Width Over Tires 2546 mm (100.2 EPA Tier 3/EU Sta 325 L (86 gal.) 22.5 L (23.8 qt.)	il cooled, single disc lline mounted, sealed wet m in.)					
Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) Tires/Wheels (see page 32 for complete tire adjustments)  Michelin 20.5 R 25, 1 Star L-3 Serviceability Refill Capacities Fuel Tank (with lockable cap) Cooling System Diesel Exhaust Fluid (DEF)	Hydraulic locking front wi 24 deg. (12 deg. each dire Hydraulically actuated, int Automatic spring applied, Tread Width 1950 mm (76.8 in.) EPA FT4/EU Stage IV 298 L (79 gal.) 23.5 L (24.8 qt.) 19 L (20 qt.)	th conventional rear – stand ction) poard sun-shaft mounted, o hydraulically released, drive Width Over Tires 2546 mm (100.2 EPA Tier 3/EU Sta 325 L (86 gal.) 22.5 L (23.8 qt.) N/A	il cooled, single disc lline mounted, sealed wet m in.)					
Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) Tires/Wheels (see page 32 for complete tire adjustments)  Michelin 20.5 R 25, 1 Star L-3 Serviceability Refill Capacities Fuel Tank (with lockable cap) Cooling System	Hydraulic locking front wi 24 deg. (12 deg. each dire Hydraulically actuated, int Automatic spring applied, Tread Width 1950 mm (76.8 in.) EPA FT4/EU Stage IV 298 L (79 gal.) 23.5 L (24.8 qt.)	th conventional rear – stand ction) poard sun-shaft mounted, o hydraulically released, drive Width Over Tires 2546 mm (100.2 EPA Tier 3/EU Sta 325 L (86 gal.) 22.5 L (23.8 qt.) N/A 19 L (20 qt.)	il cooled, single disc lline mounted, sealed wet m in.)					
Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) Tires/Wheels (see page 32 for complete tire adjustments)  Michelin 20.5 R 25, 1 Star L-3 Serviceability Refill Capacities Fuel Tank (with lockable cap) Cooling System Diesel Exhaust Fluid (DEF)	Hydraulic locking front wi 24 deg. (12 deg. each dire Hydraulically actuated, int Automatic spring applied, Tread Width 1950 mm (76.8 in.) EPA FT4/EU Stage IV 298 L (79 gal.) 23.5 L (24.8 qt.) 19 L (20 qt.)	th conventional rear – stand ction) poard sun-shaft mounted, o hydraulically released, drive Width Over Tires 2546 mm (100.2 EPA Tier 3/EU Sta 325 L (86 gal.) 22.5 L (23.8 qt.) N/A	il cooled, single disc lline mounted, sealed wet m in.)					
Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) Tires/Wheels (see page 32 for complete tire adjustments)  Michelin 20.5 R 25, 1 Star L-3 Serviceability Refill Capacities Fuel Tank (with lockable cap) Cooling System Diesel Exhaust Fluid (DEF) Engine Oil with Vertical Spin-On Filter	Hydraulic locking front wi 24 deg. (12 deg. each dire Hydraulically actuated, int Automatic spring applied, Tread Width 1950 mm (76.8 in.) EPA FT4/EU Stage IV 298 L (79 gal.) 23.5 L (24.8 qt.) 19 L (20 qt.) 19.5 L (20.6 qt.)	th conventional rear – stand ction) poard sun-shaft mounted, o hydraulically released, drive Width Over Tires 2546 mm (100.2 EPA Tier 3/EU Sta 325 L (86 gal.) 22.5 L (23.8 qt.) N/A 19 L (20 qt.)	il cooled, single disc lline mounted, sealed wet m in.)					
Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) Tires/Wheels (see page 32 for complete tire adjustments)  Michelin 20.5 R 25, 1 Star L-3 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 Axle Oil (front and rear, each)	Hydraulic locking front wi 24 deg. (12 deg. each dire Hydraulically actuated, int Automatic spring applied, Tread Width 1950 mm (76.8 in.) EPA FT4/EU Stage IV 298 L (79 gal.) 23.5 L (24.8 qt.) 19 L (20 qt.) 19.5 L (20.6 qt.) 21.5 L (22.7 qt.) 17 L (18 qt.)	th conventional rear – stand ction) poard sun-shaft mounted, o hydraulically released, drive Width Over Tires 2546 mm (100.2 EPA Tier 3/EU Sta 325 L (86 gal.) 22.5 L (23.8 qt.) N/A 19 L (20 qt.) 18.5 L (19.5 qt.) 17 L (18 qt.)	il cooled, single disc lline mounted, sealed wet m in.)					
Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) Tires/Wheels (see page 32 for complete tire adjustments)  Michelin 20.5 R 25, 1 Star L-3 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 Axle Oil (front and rear, each) Hydraulic Reservoir and Filter	Hydraulic locking front wi 24 deg. (12 deg. each dire Hydraulically actuated, int Automatic spring applied, Tread Width 1950 mm (76.8 in.) EPA FT4/EU Stage IV 298 L (79 gal.) 23.5 L (24.8 qt.) 19 L (20 qt.) 19.5 L (20.6 qt.) 21.5 L (22.7 qt.) 17 L (18 qt.) 118.7 L (31.4 gal.)	th conventional rear – stand ction) poard sun-shaft mounted, o hydraulically released, drive Width Over Tires 2546 mm (100.2 EPA Tier 3/EU Sta 325 L (86 gal.) 22.5 L (23.8 qt.) N/A 19 L (20 qt.) 18.5 L (19.5 qt.) 17 L (18 qt.) 92 L (24.3 gal.)	il cooled, single disc lline mounted, sealed wet m in.)					
Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) Tires/Wheels (see page 32 for complete tire adjustments)  Michelin 20.5 R 25, 1 Star L-3 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 Axle Oil (front and rear, each) Hydraulic Reservoir and Filter Park Brake Oil (wet disc)	Hydraulic locking front wi 24 deg. (12 deg. each dire Hydraulically actuated, int Automatic spring applied, Tread Width 1950 mm (76.8 in.) EPA FT4/EU Stage IV 298 L (79 gal.) 23.5 L (24.8 qt.) 19 L (20 qt.) 19.5 L (20.6 qt.) 21.5 L (22.7 qt.) 17 L (18 qt.)	th conventional rear – stand ction) poard sun-shaft mounted, o hydraulically released, drive Width Over Tires 2546 mm (100.2 EPA Tier 3/EU Sta 325 L (86 gal.) 22.5 L (23.8 qt.) N/A 19 L (20 qt.) 18.5 L (19.5 qt.) 17 L (18 qt.)	il cooled, single disc lline mounted, sealed wet m in.)					
Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) Tires/Wheels (see page 32 for complete tire adjustments)  Michelin 20.5 R 25, 1 Star L-3 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 Axle Oil (front and rear, each) Hydraulic Reservoir and Filter Park Brake Oil (wet disc) Hydraulic System/Steering	Hydraulic locking front wir 24 deg. (12 deg. each dire Hydraulically actuated, int Automatic spring applied,  Tread Width 1950 mm (76.8 in.)  EPA FT4/EU Stage IV 298 L (79 gal.) 23.5 L (24.8 qt.) 19 L (20 qt.) 19.5 L (20.6 qt.) 21.5 L (22.7 qt.) 17 L (18 qt.) 118.7 L (31.4 gal.) 0.3 L (10 oz.)	th conventional rear – stand ction) poard sun-shaft mounted, o hydraulically released, drive Width Over Tires 2546 mm (100.2 EPA Tier 3/EU St. 325 L (86 gal.) 22.5 L (23.8 qt.) N/A 19 L (20 qt.) 18.5 L (19.5 qt.) 17 L (18 qt.) 92 L (24.3 gal.) 0.3 L (10 oz.)	il cooled, single disc eline mounted, sealed wet m in.)	nulti disc				
Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) Tires/Wheels (see page 32 for complete tire adjustments)  Michelin 20.5 R 25, 1 Star L-3 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 Axle Oil (front and rear, each) Hydraulic Reservoir and Filter Park Brake Oil (wet disc) Hydraulic System/Steering Pump (loader and steering)	Hydraulic locking front wir 24 deg. (12 deg. each dire Hydraulically actuated, int Automatic spring applied,  Tread Width 1950 mm (76.8 in.)  EPA FT4/EU Stage IV 298 L (79 gal.) 23.5 L (24.8 qt.) 19 L (20 qt.) 19.5 L (20.6 qt.) 21.5 L (22.7 qt.) 17 L (18 qt.) 118.7 L (31.4 gal.) 0.3 L (10 oz.)  Variable-displacement, ax	th conventional rear – stand ction) poard sun-shaft mounted, o hydraulically released, drive Width Over Tires 2546 mm (100.2 EPA Tier 3/EU Sta 325 L (86 gal.) 22.5 L (23.8 qt.) N/A 19 L (20 qt.) 18.5 L (19.5 qt.) 17 L (18 qt.) 92 L (24.3 gal.)	il cooled, single disc eline mounted, sealed wet m in.)	nulti disc				
Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) Tires/Wheels (see page 32 for complete tire adjustments)  Michelin 20.5 R 25, 1 Star L-3 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 Axle Oil (front and rear, each) Hydraulic Reservoir and Filter Park Brake Oil (wet disc) Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and	Hydraulic locking front wir 24 deg. (12 deg. each dire Hydraulically actuated, int Automatic spring applied,  Tread Width 1950 mm (76.8 in.)  EPA FT4/EU Stage IV 298 L (79 gal.) 23.5 L (24.8 qt.) 19 L (20 qt.) 19.5 L (20.6 qt.) 21.5 L (22.7 qt.) 17 L (18 qt.) 118.7 L (31.4 gal.) 0.3 L (10 oz.)	th conventional rear – stand ction) poard sun-shaft mounted, o hydraulically released, drive Width Over Tires 2546 mm (100.2 EPA Tier 3/EU St. 325 L (86 gal.) 22.5 L (23.8 qt.) N/A 19 L (20 qt.) 18.5 L (19.5 qt.) 17 L (18 qt.) 92 L (24.3 gal.) 0.3 L (10 oz.)	il cooled, single disc eline mounted, sealed wet m in.)	nulti disc				
Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) Tires/Wheels (see page 32 for complete tire adjustments)  Michelin 20.5 R 25, 1 Star L-3 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 Axle Oil (front and rear, each) Hydraulic Reservoir and Filter Park Brake Oil (wet disc) Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,350 rpm	Hydraulic locking front wir 24 deg. (12 deg. each dire Hydraulically actuated, int Automatic spring applied,  Tread Width 1950 mm (76.8 in.)  EPA FT4/EU Stage IV 298 L (79 gal.) 23.5 L (24.8 qt.) 19 L (20 qt.) 19.5 L (20.6 qt.) 21.5 L (22.7 qt.) 17 L (18 qt.) 118.7 L (31.4 gal.) 0.3 L (10 oz.)  Variable-displacement, ax 189 L/m (50 gpm)	th conventional rear – stand ction) poard sun-shaft mounted, o hydraulically released, drive Width Over Tires 2546 mm (100.2 EPA Tier 3/EU St. 325 L (86 gal.) 22.5 L (23.8 qt.) N/A 19 L (20 qt.) 18.5 L (19.5 qt.) 17 L (18 qt.) 92 L (24.3 gal.) 0.3 L (10 oz.)	il cooled, single disc eline mounted, sealed wet m in.)	nulti disc				
Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) Tires/Wheels (see page 32 for complete tire adjustments)  Michelin 20.5 R 25, 1 Star L-3 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 Axle Oil (front and rear, each) Hydraulic Reservoir and Filter Park Brake Oil (wet disc) Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,350 rpm System Relief Pressure (loader and steering)	Hydraulic locking front wir 24 deg. (12 deg. each dire Hydraulically actuated, inh Automatic spring applied,  Tread Width 1950 mm (76.8 in.)  EPA FT4/EU Stage IV 298 L (79 gal.) 23.5 L (24.8 qt.) 19 L (20 qt.) 19.5 L (20.6 qt.) 21.5 L (22.7 qt.) 17 L (18 qt.) 118.7 L (31.4 gal.) 0.3 L (10 oz.)  Variable-displacement, ax 189 L/m (50 gpm) 25 166 kPa (3,650 psi)	th conventional rear – standaction) coard sun-shaft mounted, of hydraulically released, drives  Width Over Tires 2546 mm (100.2)  EPA Tier 3/EU St. 325 L (86 gal.) 22.5 L (23.8 qt.) N/A 19 L (20 qt.) 18.5 L (19.5 qt.) 17 L (18 qt.) 92 L (24.3 gal.) 0.3 L (10 oz.)  ial-piston pump; closed-centile.	il cooled, single disc verime mounted, sealed wet m in.) age IIIA	nulti disc				
Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) Tires/Wheels (see page 32 for complete tire adjustments)  Michelin 20.5 R 25, 1 Star L-3 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 Axle Oil (front and rear, each) Hydraulic Reservoir and Filter Park Brake Oil (wet disc) Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,350 rpm	Hydraulic locking front wir 24 deg. (12 deg. each dire Hydraulically actuated, inh Automatic spring applied,  Tread Width 1950 mm (76.8 in.)  EPA FT4/EU Stage IV 298 L (79 gal.) 23.5 L (24.8 qt.) 19 L (20 qt.) 19.5 L (20.6 qt.) 21.5 L (22.7 qt.) 17 L (18 qt.) 118.7 L (31.4 gal.) 0.3 L (10 oz.)  Variable-displacement, ax 189 L/m (50 gpm)  25 166 kPa (3,650 psi) 2-function valve; joystick of 4th-function valve with automatic spring applied in the second s	th conventional rear – standaction) coard sun-shaft mounted, of hydraulically released, drives  Width Over Tires 2546 mm (100.2)  EPA Tier 3/EU St. 325 L (86 gal.) 22.5 L (23.8 qt.) N/A 19 L (20 qt.) 17 L (18 qt.) 17 L (18 qt.) 17 L (18 qt.) 22 L (24.3 gal.) 0.3 L (10 oz.)  ial-piston pump; closed-centontrol or fingertip controls ixiliary lever	il cooled, single disc eline mounted, sealed wet m in.) age IIIA ter, pressure-compensating ; hydraulic-function enable/	g system /disable; optional 3rd- and				
Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) Tires/Wheels (see page 32 for complete tire adjustments)  Michelin 20.5 R 25, 1 Star L-3 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 Axle Oil (front and rear, each) Hydraulic Reservoir and Filter Park Brake Oil (wet disc) Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,350 rpm System Relief Pressure (loader and steering)	Hydraulic locking front wir 24 deg. (12 deg. each dire Hydraulically actuated, inh Automatic spring applied,  Tread Width 1950 mm (76.8 in.)  EPA FT4/EU Stage IV 298 L (79 gal.) 23.5 L (24.8 qt.) 19 L (20 qt.) 19.5 L (20.6 qt.) 21.5 L (22.7 qt.) 17 L (18 qt.) 118.7 L (31.4 gal.) 0.3 L (10 oz.)  Variable-displacement, ax 189 L/m (50 gpm)  25 166 kPa (3,650 psi) 2-function valve; joystick of 4th-function valve with automatic spring applied in the second s	th conventional rear – standaction) coard sun-shaft mounted, of hydraulically released, drives  Width Over Tires 2546 mm (100.2)  EPA Tier 3/EU St. 325 L (86 gal.) 22.5 L (23.8 qt.) N/A 19 L (20 qt.) 17 L (18 qt.) 17 L (18 qt.) 92 L (24.3 gal.) 0.3 L (10 oz.)  ial-piston pump; closed-centontrol or fingertip controls	il cooled, single disc eline mounted, sealed wet m in.) age IIIA ter, pressure-compensating ; hydraulic-function enable/	g system /disable; optional 3rd- and				
Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) Tires/Wheels (see page 32 for complete tire adjustments)  Michelin 20.5 R 25, 1 Star L-3 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 Axle Oil (front and rear, each) Hydraulic Reservoir and Filter Park Brake Oil (wet disc) Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,350 rpm System Relief Pressure (loader and steering) Loader Controls	Hydraulic locking front wir 24 deg. (12 deg. each dire Hydraulically actuated, inh Automatic spring applied,  Tread Width 1950 mm (76.8 in.)  EPA FT4/EU Stage IV 298 L (79 gal.) 23.5 L (24.8 qt.) 19 L (20 qt.) 19.5 L (20.6 qt.) 21.5 L (22.7 qt.) 17 L (18 qt.) 118.7 L (31.4 gal.) 0.3 L (10 oz.)  Variable-displacement, ax 189 L/m (50 gpm)  25 166 kPa (3,650 psi) 2-function valve; joystick of 4th-function valve with automatic spring applied in the second s	th conventional rear – standaction) coard sun-shaft mounted, of hydraulically released, drives  Width Over Tires 2546 mm (100.2)  EPA Tier 3/EU St. 325 L (86 gal.) 22.5 L (23.8 qt.) N/A 19 L (20 qt.) 17 L (18 qt.) 17 L (18 qt.) 17 L (18 qt.) 22 L (24.3 gal.) 0.3 L (10 oz.)  ial-piston pump; closed-centontrol or fingertip controls ixiliary lever	il cooled, single disc eline mounted, sealed wet m in.) age IIIA ter, pressure-compensating ; hydraulic-function enable/	g system /disable; optional 3rd- and				
Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) Tires/Wheels (see page 32 for complete tire adjustments)  Michelin 20.5 R 25, 1 Star L-3 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 Axle Oil (front and rear, each) Hydraulic Reservoir and Filter Park Brake Oil (wet disc) Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,350 rpm System Relief Pressure (loader and steering) Loader Controls  Steering (conforms to ISO 5010) Type	Hydraulic locking front wir 24 deg. (12 deg. each dire Hydraulically actuated, inh Automatic spring applied,  Tread Width 1950 mm (76.8 in.)  EPA FT4/EU Stage IV 298 L (79 gal.) 23.5 L (24.8 qt.) 19 L (20 qt.) 19.5 L (20.6 qt.) 21.5 L (22.7 qt.) 17 L (18 qt.) 118.7 L (31.4 gal.) 0.3 L (10 oz.)  Variable-displacement, ax 189 L/m (50 gpm) 25 166 kPa (3,650 psi) 2-function valve; joystick of 4th-function valve with au Steering-column-mounted Power, fully hydraulic	th conventional rear – standaction) coard sun-shaft mounted, of hydraulically released, drives  Width Over Tires 2546 mm (100.2)  EPA Tier 3/EU St. 325 L (86 gal.) 22.5 L (23.8 qt.) N/A 19 L (20 qt.) 17 L (18 qt.) 17 L (18 qt.) 92 L (24.3 gal.) 0.3 L (10 oz.)  ial-piston pump; closed-centary lever definition of the properties of the control or fingertip controls in the control or fingertip control or fingertip controls in the control or fingertip control or fi	il cooled, single disc eline mounted, sealed wet m in.) age IIIA ter, pressure-compensating ; hydraulic-function enable/	g system /disable; optional 3rd- and				
Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) Tires/Wheels (see page 32 for complete tire adjustments)  Michelin 20.5 R 25, 1 Star L-3 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 Axle Oil (front and rear, each) Hydraulic Reservoir and Filter Park Brake Oil (wet disc) Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,350 rpm System Relief Pressure (loader and steering) Loader Controls  Steering (conforms to ISO 5010)	Hydraulic locking front wir 24 deg. (12 deg. each dire Hydraulically actuated, inh Automatic spring applied,  Tread Width 1950 mm (76.8 in.)  EPA FT4/EU Stage IV 298 L (79 gal.) 23.5 L (24.8 qt.) 19 L (20 qt.) 19.5 L (20.6 qt.) 21.5 L (22.7 qt.) 17 L (18 qt.) 118.7 L (31.4 gal.) 0.3 L (10 oz.)  Variable-displacement, ax 189 L/m (50 gpm)  25 166 kPa (3,650 psi) 2-function valve; joystick of 4th-function valve with au Steering-column-mounted	th conventional rear – standaction) coard sun-shaft mounted, of hydraulically released, drives  Width Over Tires 2546 mm (100.2)  EPA Tier 3/EU St. 325 L (86 gal.) 22.5 L (23.8 qt.) N/A 19 L (20 qt.) 17 L (18 qt.) 17 L (18 qt.) 92 L (24.3 gal.) 0.3 L (10 oz.)  ial-piston pump; closed-centary lever definition of the properties of the control or fingertip controls in the control or fingertip control or fingertip controls in the control or fingertip control or fi	il cooled, single disc eline mounted, sealed wet m in.) age IIIA ter, pressure-compensating ; hydraulic-function enable/	g system /disable; optional 3rd- and				



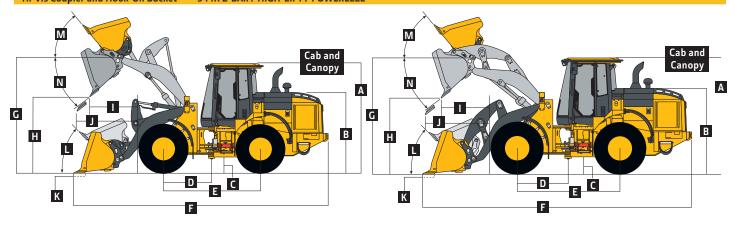
Hydraulic System/Steering (continued)	544K Z-BAR / HIGH-LIFT /	POWERLLEL	
Hydraulic Cycle Times	Z-Bar / High-Lift	Powerllel	
Raise	5.8 sec.	5.8 sec.	
Dump	1.2 sec.	1.2 sec.	
Lower (float down)	3.2 sec.	2.5 sec.	
Total	10.2 sec.	9.5 sec.	
Dimensions and Considerations with Din On D.	release		



## 544K Z-BAR AND HIGH-LIFT LOADERS WITH PIN-ON BUCKET

	Z-Bar	Z-Bar	High-Lift	High-Lift
Dimensions with Bucket	Narrow 2.3-m³ (3.0 cu. yd.) general-purpose with bolt-on edge	Wide 2.3-m³ (3.0 cu. yd.) general-purpose with bolt-on edge	Narrow 2.3-m³ (3.0 cu. yd.) general-purpose with bolt-on edge	Wide 2.3-m³ (3.0 cu. yd.) general-purpose with bolt-on edge
A Height to Top of Cab and Canopy	3.24 m (10 ft. 8 in.)	3.24 m (10 ft. 8 in.)	3.24 m (10 ft. 8 in.)	3.24 m (10 ft. 8 in.)
B Hood Height	2.37 m (7 ft. 9 in.)	2.37 m (7 ft. 9 in.)	2.37 m (7 ft. 9 in.)	2.37 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	7.43 m (24 ft. 4 in.)	7.34 m (24 ft. 1 in.)	7.75 m (25 ft. 5 in.)	7.67 m (25 ft. 2 in.)
G Height to Hinge Pin, Fully Raised	3.82 m (12 ft. 6 in.)	3.82 m (12 ft. 6 in.)	4.17 m (13 ft. 8 in.)	4.17 m (13 ft. 8 in.)
H Dump Clearance, 45 deg., Full Height	2.76 m (9 ft. 1 in.)	2.82 m (9 ft. 3 in.)	3.11 m (10 ft. 3 in.)	3.17 m (10 ft. 5 in.)
I Reach, 45-deg. Dump, Full Height	0.99 m (3 ft. 3 in.)	0.93 m (3 ft. 1 in.)	0.99 m (3 ft. 3 in.)	0.93 m (3 ft. 1 in.)
J Reach, 45-deg. Dump, 2.13-m (7 ft. 0 in.) Clearance	1.46 m (4 ft. 10 in.)	1.44 m (4 ft. 9 in.)	1.76 m (5 ft. 9 in.)	1.73 m (5 ft. 8 in.)
K Maximum Digging Depth	95 mm (3.72 in.)	95 mm (3.72 in.)	221 mm (8.7 in.)	221 mm (8.7 in.)
L Maximum Rollback at Ground Level	42 deg.	42 deg.	37 deg.	37 deg.
M Maximum Rollback, Boom Fully Raised	55 deg.	55 deg.	50 deg.	50 deg.
N Maximum Bucket Dump Angle, Fully Raised	49 deg.	49 deg.	46 deg.	46 deg.
Loader Clearance Circle, Bucket Carry Position	11.65 m (38 ft. 3 in.)	11.72 m (38 ft. 5 in.)	11.96 m (39 ft. 3 in.)	12.03 m (39 ft. 6 in.)
Specifications with Bucket				
Capacity, Heaped	2.3 m³ (3.0 cu. yd.)	2.3 m³ (3.0 cu. yd.)	2.3 m³ (3.0 cu. yd.)	2.3 m <sup>3</sup> (3.0 cu. yd.)
Capacity, Struck	2.0 m³ (2.6 cu. yd.)	2.0 m³ (2.6 cu. yd.)	2.0 m³ (2.6 cu. yd.)	2.0 m³ (2.6 cu. yd.)
Bucket Weight with Bolt-On Cutting Edge	1066 kg (2,350 lb.)	1048 kg (2,310 lb.)	1066 kg (2,350 lb.)	1048 kg (2,310 lb.)
Bucket Width	2.54 m (8 ft. 4 in.)	2.69 m (8 ft. 10 in.)	2.54 m (8 ft. 4 in.)	2.69 m (8 ft. 10 in.)
Breakout Force	10 115 kg (22,300 lb.)	10 869 kg (23,962 lb.)	9352 kg (20,618 lb.)	10 050 kg (22,156 lb.)
Tipping Load, Straight, No Tire Deflection	11 106 kg (24,484 lb.)	11 163 kg (24,610 lb.)	9565 kg (21,087 lb.)	9623 kg (21,215 lb.)
Tipping Load, Straight, with Tire Deflection	10 530 kg (23,215 lb.)	10 590 kg (23,347 lb.)	9120 kg (20,106 lb.)	9180 kg (20,238 lb.)
Tipping Load, 40-deg. Full Turn, No Tire Deflection	9637 kg (21,246 lb.)	9690 kg (21,363 lb.)	8273 kg (18,239 lb.)	8325 kg (18,353 lb.)
Tipping Load, 40-deg. Full Turn, with Tire Deflection	8895 kg (19,610 lb.)	8952 kg (19,736 lb.)	7689 kg (16,951 lb.)	7746 kg (17,077 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, No Tire Deflection (conforms to ISO 14397-1)*	4818 kg (10,622 lb.)	4845 kg (10,681 lb.)	4136 kg (9,118 lb.)	4162 kg (9,176 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, with Tire Deflection (conforms to ISO 14397-1)*	4447 kg (9,804 lb.)	4476 kg (9,868 lb.)	3844 kg (8,475 lb.)	3873 kg (8,538 lb.)
Operating Weight	13 217 kg (29,138 lb.)	13 200 kg (29,101 lb.)	13 352 kg (29,436 lb.)	13 335 kg (29,399 lb.)
Loader operating information is based on machine v cab, rear cast bumper/counterweight, transmission s				

affected by changes in tires, ballast, and different attachments.
\*Rated operating capacity based on Deere attachments only.



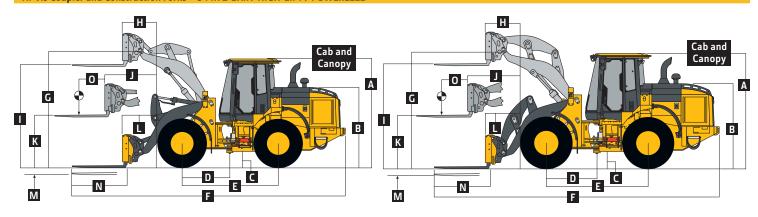
## 544K Z-BAR AND HIGH-LIFT LOADERS WITH QUICK-COUPLER AND HOOK-ON BUCKET

## 544K POWERLLEL LOADER WITH QUICK-COUPLER AND HOOK-ON BUCKET

	Z-Bar	Z-Bar	High-Lift	High-Lift	Powerllel	Powerllel
Dimensions with Bucket	2.3-m³ (3.0 cu. yd.) general-purpose with bolt-on edge	3.4-m³ (4.5 cu. yd.) light-material with bolt-on edge	2.3-m³ (3.0 cu. yd.) general-purpose with bolt-on edge	3.4-m³ (4.5 cu. yd.) light-material with bolt-on edge	2.3-m³ (3.0 cu. yd.) general-purpose with bolt-on edge	3.4-m³ (4.5 cu. y light-material w bolt-on edge
A Height to Top of Cab and Canopy	3.24 m (10 ft. 8 in.)	3.24 m (10 ft. 8 in.)	3.24 m (10 ft. 8 in.)	3.24 m (10 ft. 8 in.)	3.24 m (10 ft. 8 in.)	3.24 m (10 ft. 8
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.)	2.375 m (7 ft. 9 in.)	2.375 m (7 ft. 9
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.)	0.40 m (15.7 in.
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 i
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 i
Overall Length, Bucket on Ground	7.57 m (24 ft. 10 in.)	7.87 m (25 ft. 10 in.)	7.90 m (25 ft. 11 in.)	8.02 m (26 ft. 4 in.)	7.69 m (25 ft. 3 in.)	7.89 m (25 ft. 11
Height to Hinge Pin, Fully Raised	3.81 m (12 ft. 6 in.)	3.81 m (12 ft. 6 in.)	4.13 m (13 ft. 7 in.)	4.13 m (13 ft. 7 in.)	3.85 m (12 ft. 8 in.)	3.85 m (12 ft. 8
Dump Clearance, 45 deg., Full Height	2.66 m (8 ft. 9 in.)	2.40 m (7 ft. 10 in.)	3.01 m (9 ft. 10 in.)	2.74 m (8 ft. 11 in.)	2.68 m (8 ft. 9 in.)	2.47 m (8 ft. 1 i
Reach, 45-deg. Dump, Full Height	1.05 m (3 ft. 5 in.)	1.20 m (3 ft. 11 in.)	1.05 m (3 ft. 5 in.)	1.22 m (4 ft. 0 in.)	1.09 m (3 ft. 7 in.)	1.26 m (4 ft. 2 i
Reach, 45-deg. Dump, 2.13-m (7 ft. 0 in.) Clearance	1.46 m (4 ft. 10 in.)	1.43 m (4 ft. 8 in.)	1.77 m (5 ft. 10 in.)	1.75 m (5 ft. 9 in.)	1.51 m (5 ft. 0 in.)	1.56 m (5 ft. 1 i
Maximum Digging Depth	138 mm (5.4 in.)	230 mm (9.0 in.)	227 mm (8.9 in.)	311 mm (12.2 in.)	127 mm (5.0 in.)	216 mm (8.5 in.
. Maximum Rollback at Ground Level	41 deg.	41 deg.	41 deg.	41 deg.	42 deg.	44 deg.
M Maximum Rollback, Boom Fully Raised	54 deg.	55 deg.	48 deg.	50 deg.	51 deg.	54 deg.
Maximum Bucket Dump Angle, Fully Raised	51 deg.	49 deg.	47 deg.	45 deg.	50 deg.	47 deg.
oader Clearance Circle, Bucket Carry osition	11.88 m (39 ft. 0 in.)	12.24 m (40 ft. 2 in.)	12.19 m (40 ft. 0 in.)	12.58 m (41 ft. 3 in.)	12.10 m (39 ft. 8 in.)	12.35 m (40 ft. (
pecifications with Bucket						
Capacity, Heaped	2.3 m <sup>3</sup> (3.0 cu. yd.)	3.4 m³ (4.5 cu. yd.)	2.3 m <sup>3</sup> (3.0 cu. yd.)	3.4 m³ (4.5 cu. yd.)	2.3 m <sup>3</sup> (3.0 cu. yd.)	3.4 m³ (4.5 cu.
Capacity, Struck	2.0 m³ (2.6 cu. yd.)	2.9 m³ (3.8 cu. yd.)	2.0 m³ (2.6 cu. yd.)	2.9 m³ (3.8 cu. yd.)	2.0 m³ (2.6 cu. yd.)	2.9 m³ (3.8 cu.
Bucket Weight with Bolt-On Cutting Edge	1450 kg (3,197 lb.)	1745 kg (3,847 lb.)	1450 kg (3,197 lb.)	1745 kg (3,847 lb.)	1428 kg (3,148 lb.)	1724 kg (3,801
Bucket Width	2.69 m (8 ft. 10 in.)	2.89 m (9 ft. 6 in.)	2.69 m (8 ft. 10 in.)	2.89 m (9 ft. 6 in.)	2.69 m (8 ft. 10 in.)	2.69 m (8 ft. 10
Breakout Force	8992 kg (19,824 lb.)	7375 kg (16,259 lb.)	8294 kg (18,285 lb.)	6847 kg (15,095 lb.)	8604 kg (18,968 lb.)	7861 kg (17,330
Tipping Load, Straight, No Tire Deflection	9877 kg (21,775 lb.)	9290 kg (20,481 lb.)	8532 kg (18,810 lb.)	7986 kg (17,606 lb.)	9054 kg (19,961 lb.)	8472 kg (18,67)
Tipping Load, Straight, with Tire Deflection	9378 kg (20,675 lb.)	8796 kg (19,392 lb.)	8139 kg (17,943 lb.)	7602 kg (16,759 lb.)	8613 kg (18,988 lb.)	8043 kg (17,73)
Tipping Load, 40-deg. Full Turn, No Tire Deflection	8520 kg (18,783 lb.)	7968 kg (17,566 lb.)	7328 kg (16,155 lb.)	6812 kg (15,018 lb.)	7788 kg (17,170 lb.)	7248 kg (15,979
Tipping Load, 40-deg. Full Turn, with Tire Deflection	7869 kg (17,348 lb.)	7326 kg (16,151 lb.)	6807 kg (15,007 lb.)	6297 kg (13,882 lb.)	7209 kg (15,893 lb.)	6666 kg (14,69
Rated Operating Load, 50% Full-Turn Tipping Load, No Tire Deflection (conforms to ISO 14397-1)*	4260 kg (9,392 lb.)	3984 kg (8,783 lb.)	3664 kg (8,078 lb.)	3406 kg (7,509 lb.)	3894 kg (8,585 lb.)	3624 kg (7,989
Rated Operating Load, 50% Full-Turn Tipping Load, with Tire Deflection (conforms to ISO 14397-1)*	3934 kg (8,673 lb.)	3663 kg (8,075 lb.)	3403 kg (7,502 lb.)	3148 kg (6,940 lb.)	3604 kg (7,945 lb.)	3333 kg (7,348
Operating Weight	13 601 kg (29,985 lb.)	13 896 kg (30,635 lb.)	13 736 kg (30,283 lb.)	14 031 kg (30,933 lb.)	14 327 kg (31,586 lb.)	14 622 kg (32,236 lb.)

Loader operating information is based on machine with identified linkage and standard equipment, PowerTech PVS 6068 (EPA Final Tier 4/EU Stage IV) 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.

<sup>\*</sup>Rated operating capacity based on Deere attachments only.



544K Z-BAR AND HIGH-LIFT LOADERS WITH QUICK-COUPLER AND HOOK-ON CONSTRUCTION FORKS

## 544K POWERLLEL LOADER WITH QUICK-COUPLER AND HOOK-ON CONSTRUCTION FORKS

	Z-Bar	Z-Bar	High-Lift	High-Lift	Powerllel	Powerllel
Dimensions with Forks	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.)
	tine length	tine length				
A Height to Top of Cab and Canopy	3.24 m (10 ft. 8 in.)	3.24 m (10 ft. 8 in				
<b>B</b> Hood Height	2.30 m (7 ft. 7 in.)	2.30 m (7 ft. 7 in.)				
C Ground Clearance	0.40 m (15.7 in.)	0.40 m (15.7 in.)				
<b>D</b> Length from Centerline to Front Axle	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)				
<b>E</b> Wheelbase	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)				
F Overall Length, Forks on Ground	7.89 m (25 ft. 11 in.)	8.19 m (26 ft. 10 in.)	8.22 m (27 ft. 0 in.)	8.52 m (27 ft. 11 in.)	7.99 m (26 ft. 3 in.)	8.29 m (27 ft. 2 in
<b>G</b> Height to Hinge Pin, Fully Raised	3.81 m (12 ft. 6 in.)	3.81 m (12 ft. 6 in.)	4.13 m (13 ft. 7 in.)	4.13 m (13 ft. 7 in.)	3.85 m (12 ft. 8 in.)	3.85 m (12 ft. 8 in
H Reach, Fully Raised	0.75 m (29.5 in.)	0.79 m (31 in.)	0.79 m (31 in.)			
I Fork Height, Fully Raised	3.59 m (11 ft. 9 in.)	3.59 m (11 ft. 9 in.)	3.94 m (12 ft. 11 in.)	3.94 m (12 ft. 11 in.)	3.64 m (11 ft. 11 in.)	3.64 m (11 ft. 11 ir
J Maximum Reach, Fork Level	1.54 m (5 ft. 1 in.)	1.54 m (5 ft. 1 in.)	1.80 m (5 ft. 11 in.)	1.80 m (5 ft. 11 in.)	1.61 m (5 ft. 4 in.)	1.61 m (5 ft. 4 in.
K Fork Height, Maximum Reach	1.72 m (5 ft. 8 in.)	1.75 m (5 ft. 9 in.)	1.75 m (5 ft. 9 in.			
L Reach, Ground Level	0.95 m (3 ft. 2 in.)	0.95 m (3 ft. 2 in.)	1.28 m (4 ft. 3 in.)	1.28 m (4 ft. 3 in.)	0.99 m (3 ft. 3 in.)	0.99 m (3 ft. 3 in.
M Depth Below Ground	13 mm (0.5 in.)	13 mm (0.5 in.)	96 mm (3.8 in.)	96 mm (3.8 in.)	1 mm (0.04 in.)	1 mm (0.04 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.)
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.)
Specifications with Forks						
Tipping Load, Straight, No Tire	7739 kg (17,061 lb.)	7308 kg (16,111 lb.)	7024 kg (15,485 lb.)	6657 kg (14,676 lb.)	7359 kg (16,224 lb.)	6963 kg (15,351 l
Deflection						
Tipping Load, Straight, with Tire	7533 kg (16,607 lb.)	7119 kg (15,695 lb.)	6843 kg (15,086 lb.)	6492 kg (14,312 lb.)	7158 kg (15,781 lb.)	6780 kg (14,947 l
Deflection						
Tipping Load, 40-deg. Full Turn,	6712 kg (14,797 lb.)	6332 kg (13,960 lb.)	6073 kg (13,389 lb.)	5749 kg (12,674 lb.)	6366 kg (14,035 lb.)	6018 kg (13,267 l
No Tire Deflection						
Tipping Load, 40-deg. Full Turn,	6432 kg (14,180 lb.)	6075 kg (13,393 lb.)	5829 kg (12,851 lb.)	5532 kg (12,196 lb.)	6096 kg (13,439 lb.)	5766 kg (12,712 l
with Tire Deflection						
	3216 kg (7,090 lb.)	3037 kg (6,695 lb.)	2914 kg (6,424 lb.)	2766 kg (6,098 lb.)	3048 kg (6,720 lb.)	2883 kg (6,356 ll
Tipping Load, with Tire Deflection						
(conforms to ISO 14397-1 and SAE						
J1197)*						
Rated Operating Load, Rough	3859 kg (8,508 lb.)	3645 kg (8,036 lb.)	3497 kg (7,710 lb.)	3319 kg (7,317 lb.)	3658 kg (8,064 lb.)	3460 kg (7,628 ll
Terrain, 60% Full-Turn Tipping Load,						
with Tire Deflection (conforms to						
EN474-3)*						
Rated Operating Load, Firm and	5146 kg (11,345 lb.)	4860 kg (10,714 lb.)	4663 kg (10,280 lb.)	9758 kg (10,041 lb.)	4877 kg (10,752 lb.)	4613 kg (10,170 l
Level Ground, 80% Full-Turn Tipping						
Load, with Tire Deflection (conforms						
to EN474-3)*						
Operating Weight	13 205 kg	13 248 kg	13 340 kg	13 383 kg	13 931 kg	13 974 kg
Loader operating information is base	(29,112 lb.)	(29,207 lb.)	(29,410 lb.)	(29,504 lb.)	(30,713 lb.)	(30,807 lb.)

Loader operating information is based on machine with identified linkage and standard equipment, PowerTech PVS 6068 (EPA Final Tier 4/EU Stage IV) 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.

<sup>\*</sup>Rated operating capacity based on Deere attachments only.

## **Adjustments to Operating Weights**

and Tipping Loads with Buckets

544K Z-BAR / HIGH-LIFT / POWERLLEL

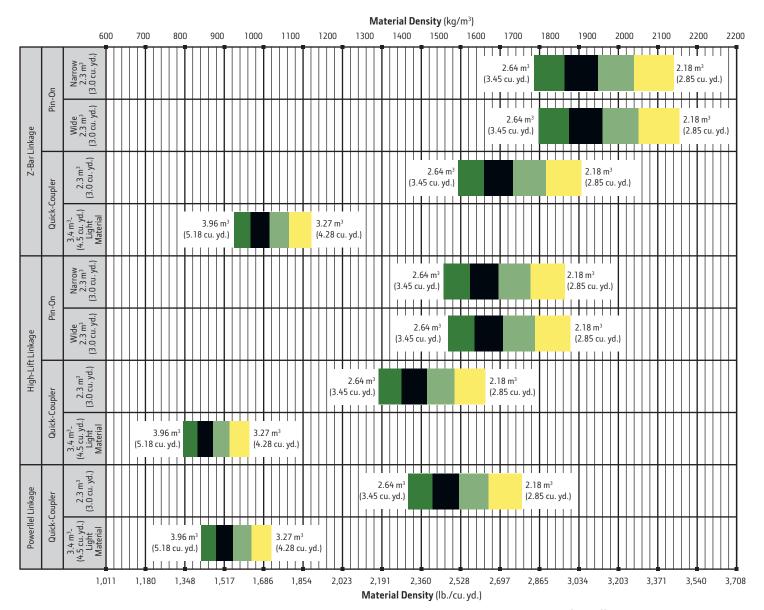
Adjustments to operating weights, tipping loads, and tires are based on Z-Bar machine with pin-on 2.3-m³ (3.0 cu. yd.) general-purpose bucket with bolt-on cutting edge, ROPS cab, rear cast bumper/counterweight, transmission side-frame guards, bottom guards, standard tires, full fuel tank, and 79-kg (175 lb.) operator\*

Add (+) or deduct (–) kg (lb.) as indi-		Tipping Load,	Tipping Load,			
cated for loaders with 3-piece rims	Operating Weight	Straight	40-deg. Full Turn	Tread Width	Width Over Tires	Vertical Height
John Deere PowerTech PVS 6068	0 kg (0 lb.)	0 kg (0 lb.)	0 kg (0 lb.)	N/A	N/A	N/A
John Deere PowerTech E 6068H						
Z-Bar	–96 kg (–212 lb.)	–3 kg (–7 lb.)	–18 kg (–40 lb.)	N/A	N/A	N/A
High-Lift/Powerllel	–112 kg (–245 lb.)	–37 kg (–82 lb.)	–45 kg (–99 lb.)	N/A	N/A	N/A
Michelin 20.5 R 25, 1 Star L-3	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	+44 kg (+97 lb.)	+32 kg (+71 lb.)	+28 kg (+62 lb.)	0 mm (0 in.)	–5 mm (–0.2 in.)	–5 mm (–0.2 in.)
Titan 20.5 R 25, 1 Star L-3	–4 kg (–9 lb.)	–3 kg (–7 lb.)	–3 kg (–7 lb.)	0 mm (0 in.)	–5 mm (–0.2 in.)	-5 mm (-0.2 in.)
Michelin 20.5 R 25, 1 Star L-2	–172 kg (–379 lb.)	–125 kg (–276 lb.)	–110 kg (–242 lb.)	0 mm (0 in.)	–5 mm (–0.2 in.)	-5 mm (-0.2 in.)
Bridgestone 20.5 R 25, 1 Star L-2	-80 kg (-176 lb.)	-58 kg (-128 lb.)	–51 kg (–112 lb.)	0 mm (0 in.)	-5 mm (-0.2 in.)	-5 mm (-0.2 in.)
Titan 20.5 R 25, 1 Star L-2	–100 kg (–220 lb.)	–72 kg (–159 lb.)	–64 kg (–141 lb.)	0 mm (0 in.)	–5 mm (–0.2 in.)	–5 mm (–0.2 in.)
Titan 20.5-25, 16 PR L-2	–260 kg (–573 lb.)	–188 kg (–415 lb.)	–166 kg (–366 lb.)	0 mm (0 in.)	–2 mm (–0.1 in.)	+3 mm (+0.1 in.)
Firestone 20.5-25, 16 PR L-2	–280 kg (–617 lb.)	-203 kg (-448 lb.)	–179 kg (–395 lb.)	0 mm (0 in.)	–2 mm (–0.1 in.)	+3 mm (+0.1 in.)
Firestone 20.5-25, 12 PR L-2	–316 kg (–697 lb.)	-229 kg (-505 lb.)	–202 kg (–445 lb.)	0 mm (0 in.)	–2 mm (–0.1 in.)	+3 mm (+0.1 in.)
Titan 20.5-25, 12 PR L-2	–280 kg (–617 lb.)	-203 kg (-448 lb.)	–179 kg (–395 lb.)	0 mm (0 in.)	–2 mm (–0.1 in.)	+3 mm (+0.1 in.)
Firestone 20.5-25, 16 PR L-3	-252 kg (-556 lb.)	-183 kg (-403 lb.)	-161 kg (-355 lb.)	0 mm (0 in.)	-2 mm (-0.1 in.)	+9 mm (+0.4 in.)
Michelin 20.5 R 25 L2 Sno-Plus	–100 kg (–220 lb.)	–72 kg (–159 lb.)	-64 kg (-141 lb.)	0 mm (0 in.)	+7 mm (+0.28 in.)	–22 mm (–0.9 in.)
620/75R26 MegaXbib <sup>£ß</sup>	-200 kg (-440 lb.)	-145 kg (-320 lb.)	–128 kg (–382 lb.)	+189 mm (+7.4 in.)	+61 mm (+2.4 in.)	+22 mm (+0.86 in.)
CaCl <sub>2</sub> in 20.5-25, L-3 Rear Tires, 75% Fill	+825 kg (+1,820 lb.)	+1010 kg (+2,227 lb.)	+891 kg (+1,964 lb.)	N/A	N/A	N/A

<sup>\*</sup>May change based on vehicle configuration, weight, or tire-pressure adjustments.

<sup>&</sup>lt;sup>£</sup>Equipped with 1-piece rims.

<sup>&</sup>lt;sup>B</sup>Requires 8-deg. rear axle stops.



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") size	1442	2,430
Gypsum	2275	3,834	Stone or gravel, 18.75-mm (3/4") size	1602	2,700



# Additional equipment

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

+ 524	544	Engine	444	524	544	Hydraulics (continued)
•	•	Wet-sleeve cylinder liners	•	•	•	In-cab adjustable automatic boom-height kickout/return to carry
		Automatic glow plugs for cold start <sup>†</sup>				Reservoir with sight gauge and fill strainer
•	•	Programmable auto-idle and auto shutdown	•	•	•	Hydraulic diagnostic ports
•	•	Selected idle adjustment from 900–1,250 rpm	•	•	•	4,000-hour in-tank filter
•	•	Starter protection	•	•	•	2 function — joystick with F-N-R
•	•	Automatic engine cool-down timer <sup>†</sup>		•	<b>A</b>	2 function — joystick with steering column F-N-R
•	•	Automatic derating for exceeded system temperatures	_	•	<b>A</b>	2 function — 2-lever fingertip controls and steering column F-N-
	•	Serpentine drive belt for automatic tensioner			$\blacksquare$	3 function — joystick with F-N-R and 3rd-function auxiliary lever
•	•	Under-hood prescreened air intake	_	•	•	3 function — joystick with steering column F-N-R and 3rd-functio
		Electrical fuel-priming pump <sup>†</sup>				auxiliary lever
•	•	Dual-stage fuel filter and water separator				3 function — 3-lever fingertip controls and steering column F-N-
•	•	500-hour vertical spin-on oil filter				4 function — 4-lever fingertip controls and steering column F-N-
<b>A</b>	<b>A</b>	Chrome exhaust stack				Ride control, automatic with monitor-adjustable speed settings
		Automatic ether starting aid (recommended for cold starts below				Hydraulic control system for quick-coupler locking pins
_	_	–12 deg. C [10 deg. F])⁵				Hydrau™ XR cold-temperature hydraulic fluid recommended belov
		Engine-block heater (recommended for cold starts below –23 deg. C				–25 deg. C. (–13 deg. F)
		[–10 deg. F])				Steering Systems
		Centrifugal engine air pre-cleaner	•	•	•	Conventional steering wheel with spinner knob
		Powertrain	<b>A</b>	<b>A</b>	<b>A</b>	Secondary steering
•	•	Programmable maximum high gear				Electrical
		Clutch calibration engaged from monitor	•	•	•	Solid-state electrical power-distribution system
•	•	2,000-hour vertical spin-on transmission filter				Lockable master electrical-disconnect switch
•		Transmission fill tube and sight gauge	•	•	•	Battery-terminal safety covers
•	•	Transmission diagnostic ports				By-pass start safety cover at starter
		5-speed transmission with lockup torque converter	•	•	•	Remote jump-start access in battery box <sup>†</sup>
•	_	4-speed transmission with non-lockup torque converter				Pre-wired for beacon/strobe light
		Rear axle disconnect	•			Lights: Halogen driving lights with guards (2) / Front (4), rear cab
•	•	Front locking differential				(2), and rear grille (2) work lights / Incandescent front turn signal and flashers / LED stop and taillights
		Rear locking differential				Heavy-duty front LED turn signal and marker lights
_	<b>A</b>	Automatic differential lock			<b>A</b>	Premium LED light package (all exterior lights are heavy-duty LED
		Axle oil temperature sensing		-		Programmable courtesy lights
<b>A</b>	<b>A</b>	Wheel-spin control				Horn, electric
		Quad-Cool™ Cooling System				Reverse warning alarm
		Heavy-duty, trash-resistant radiator and high-ambient cooling				Multi-function/multi-language LCD color monitor includes: Digita
		package				instruments — Analog display (hydraulic oil temperature, engine
		2-side access to all coolers				coolant temperature, transmission oil temperature, and engine o
		Isolated from engine compartment				pressure) / Digital display (engine rpm, transmission gear/direction
		Engine radiator				indicator, hour meter, fuel level, diesel exhaust fluid (DEF) level <sup>†</sup> ,
		Integral engine oil cooler				speedometer, odometer, and average fuel consumption)
		Hydraulic oil cooler (oil to air)				Integrated cycle counter with 5 categories
•		Transmission oil cooler (oil to air)	•			Indicator lights: Standard and selected options / Amber caution
		Charge air cooler (air to air)		_	_	and red stop
•	•	Fuel cooler†	•	•	•	Operator-warning messages
		Coolant recovery tank	•	•	•	Built-in diagnostics: Diagnostic-code details / Sensor values /
		Antifreeze, –37 deg. C (–34 deg. F)				Calibrations / Individual circuit tester Electrical corrosion-prevention package
		Cool-on-demand, hydraulically driven, swing-out fan	<b>A</b>	<b>A</b>	<b>A</b>	
•	•	Enclosed fan safety guard	<b>A</b>	<b>A</b>	<b>A</b>	AM/FM/Weather-Band (WB) radio with remote auxiliary port
<b>A</b>	<b>A</b>	Automatic reversing fan drive				Premium AM/FM/WB/XM Satellite Radio™ ready radio with Bluetooth®, remote auxiliary port, and remote USB port
<b>A</b>	<b>A</b>	Axle and service-brake coolers				24- to 12-volt, 8-amp converter
		Automobile veture to die busket positioner		•	A	24- to 12-volt, 0-amp converter 24- to 12-volt, 15- or 30-amp converter and power port
•		Automatic return-to-dig bucket positioner	†/\	nilable	only o	on EPA Final Tier 4 (FT4)/EU Stage IV engines.
		In-cab adjustable automatic return-to-dig bucket positioner (Powerllel™ only)				n EPA Tilat Her 4 (F14)/EO Stage IV engines. In EPA Tier 3/EU Stage IIIA engines.

# Additional equipment (continued)

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

	F2/		0		F2/	-//	B. L. C. Lavida
444	524	544	Operator's Station	444	524	544	
•	•	•	Canopy (ROPS/FOPS Level 1, isolation mounted)	<b>A</b>	_	_	Full line of Deere pin-on buckets
			Canopy rear window				Worksite Pro™ hydraulic coupler which accepts JRB-pattern
	<b>A</b>	<b>A</b>	Quiet Cab with heater (ROPS/FOPS Level 1, isolation mounted)				attachments
<b>A</b>	<b>A</b>	<b>A</b>	Quiet Cab with air conditioning/heater (ROPS/FOPS Level 1, isolation mounted)	_	_	_	Hi-Vis hydraulic coupler which accepts Euro-pattern attachments (Volvo)
•	•	•	Keyless start with multiple security modes				Full line of Deere hook-on buckets and forks
			Sealed-switch module with function indicators				Bolt-on fork frame guard
•	•	•	Seat with backrest extension, deep foam, vinyl cover, and adjust-				Overall Vehicle
•	•	•	able air suspension Seat with backrest extension, deep foam, fabric cover, and adjust-	•	•	•	JDLink™ Ultimate wireless communication system (available in specific countries; see your dealer for details)
_	_	_	able air suspension			•	NeverGrease™ rear-axle oscillation
<b>A</b>	•	<b>A</b>	Premium seat with high-wide back and headrest extension, heated,	•	•	•	NeverGrease steering-cylinder joints
			leather/fabric cover, and adjustable air suspension				Front and rear tie-downs
			Hydraulic controls integrated to seat	•	•	•	Rear cast bumper/counterweight with rear hitch and locking pin
			High-visibility, bright-orange seat belt, 76 mm (3 in.), with retractor				Articulation locking bar
			Cup holders (2)	•	•	•	Loader boom service locking bar
		•	Lunch-box/cooler holder	•	•	•	40-deg. steering articulation to each side with rubber-cushion
			Dome and reading light (included with Quiet Cab)				stops on frame
			12-volt power port	•			Vandal protection with lockable engine enclosures, right counter-
			Rubber floor mat				weight storage, and filler access for radiator/fuel/DEF <sup>†</sup> /hydraulic
•	•	•	Tilt steering column				transmission
		•	Operator's manual storage compartment				Left-side service steps and handholds
•	•	•	Outside (2) and inside (1) rearview mirrors	<b>A</b>	_	<b>A</b>	Right-side service steps and handrails
			Large heated outside mirrors				Left-side close-mounted steps
•	•	•	Left-side operator-station access	•	•	•	Storage compartment
			Slip-resistant steps and ergonomic handholds				Fuel-tank fill strainer
$\blacksquare$	•	$\blacksquare$	Sun visor (included with Quiet Cab)	•	•	•	Heavy-duty fuel-tank guard
			Radio ready (Quiet Cab only)				DEF <sup>†</sup> and ground-level fueling
$\blacksquare$	•	•	Front and rear intermittent windshield wipers and washers	•	•	•	Same-side ground-level daily servicing
			(included with Quiet Cab)				17.5R25 tires on 3-piece rims
			Powered cab air pre-cleaner	<b>A</b>	•	•	20.5R25 tires on 3-piece rims
			Beacon bracket (single or dual available)				Level 1 sound package§
			Rearview camera	_	<b>A</b>	<b>A</b>	Level 2 sound package
			Rear camera and radar object-detection system				Environmental drains and sample ports
		•	LOADRITE™ L2180™ Payload Scale Ready	•	•	•	Fenders, front
			LOADRITE L2180 Payload Scale				Fenders, full-coverage, front
			Embedded payload scale	_			Fenders, full-coverage, front and rear
			Fire extinguisher				Less wheels and tires with 8-deg. axle stops
			Loader Linkage	_		•	Rims less tires
	•	•	Z-Bar loader linkage				Transmission side-frame guards
			High-Lift Z-Bar loader linkage	<b>A</b>			Bottom guards, front frame and transmission
			Powerllel linkage for visibility and parallel-lift				Lift eyes
							License-plate bracket and light

<sup>†</sup>Available only on EPA Final Tier 4 (FT4)/EU Stage IV engines.

<sup>§</sup>Standard only on FT4/Stage IV engines.



