L-SERIES LOADERS



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STATE OF

644L / 644L HYBRID / 724L

644

CAPABLE, COMFORTABLE, AND RELIABLE



FRONT OF THE PACK.

Our 644L and 724L Loaders lead the way with new front-end features and an all-new cab and controls. Enhancements over previous models include near-parallel lift, a more spacious operator station, ergonomic electrohydraulic (EH) controls, and new bucket and linkage designs. Plus a host of durability details, including streamlined electrical and hydraulic routing, help maximize uptime, for the performance and reliability you need to get out in front of your competition.

NEW FRONT-END FEATURES AND MORE FORWARD THINKING.

Combining production-boosting features up front with a host of other improvements over K-Series machines, L-Series Loaders help you put your best foot forward.

Productive by design

Boasting new bucket and linkage designs that improve load leveling, material retention, and visibility, these loaders deliver more productivity and performance than earlier models.

User-friendly controls

Seat-mounted right-hand joystick features two programmable multifunction buttons and new electrohydraulic (EH) controls that are more intuitive to operate compared to our K-Series controls. All-new cab ventilated premium seat.

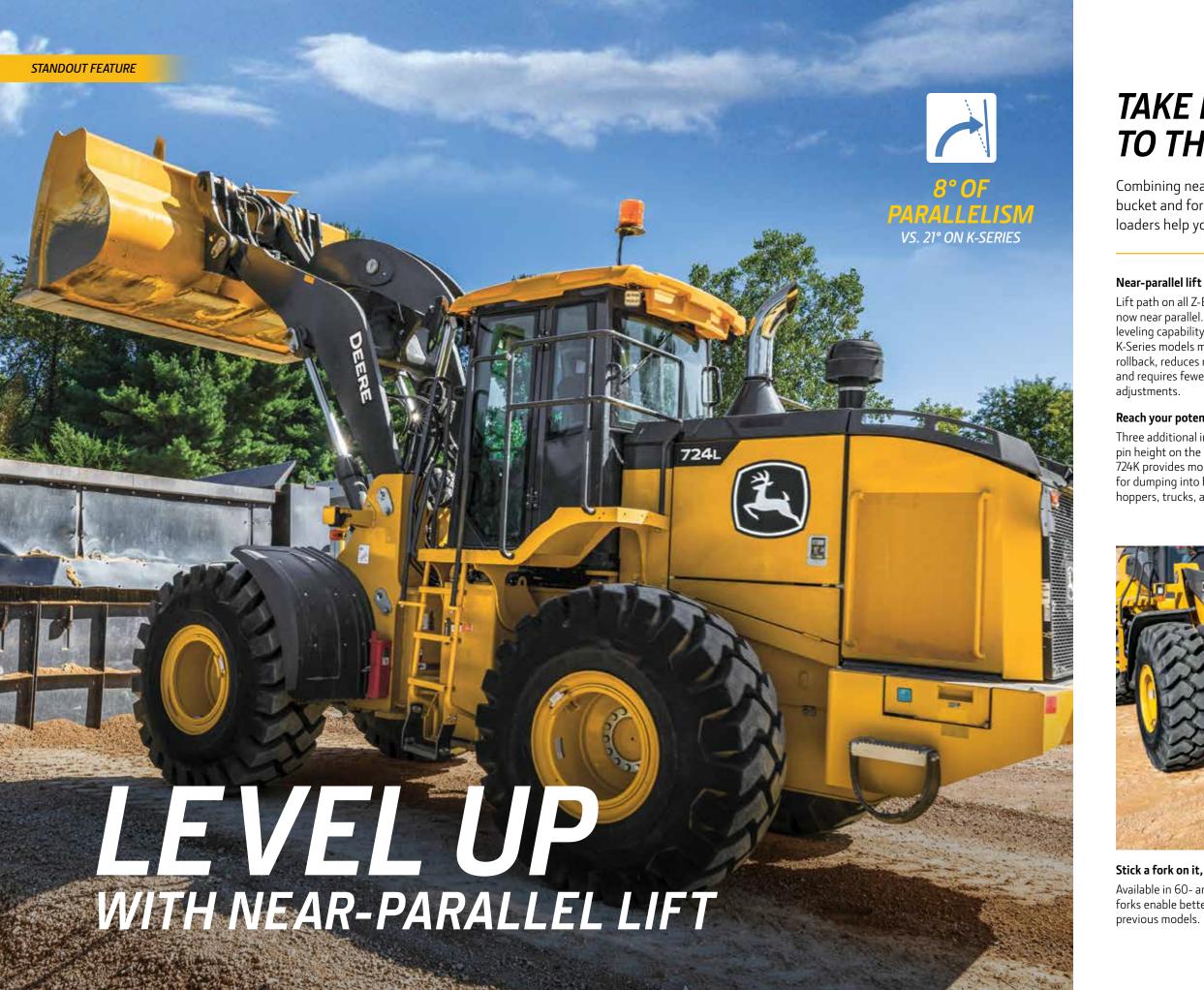


New operator station is more spacious and comfortable, and features extra legroom, an improved HVAC system, additional storage, and a more adjustable seat than previous models. Or opt for a premium cab with a larger monitor and heated/

644L Hybrid

The 644L Hybrid teams a purposebuilt four-speed hybrid-electric transmission with an EPA Final Tier 4 (FT4)/EU Stage V PowerTech™ engine to squeeze the most from every drop of fuel.





TAKE PRODUCTIVITY TO THE NEXT LEVEL.

Combining near-parallel lift with improved visibility and more bucket and fork options over previous models, these versatile loaders help you do your level best.

Lift path on all Z-Bar linkages is now near parallel. Better loadleveling capability compared to K-Series models minimizes load rollback, reduces material spillage, and requires fewer manual

Reach your potential

Three additional inches of hingepin height on the 724L over the 724K provides more clearance for dumping into high feeders, hoppers, trucks, and wagons.

The bucket list

An expanded selection of enhanced production buckets with integrated spill guards, curved side cutters, and impressive rollback boosts bucket-fill performance and material retention compared to the K-Series.

Clear advantage

Cross-tube and boom geometry of the Z-Bar linkage has been streamlined to provide a better view to the front attachment.



Stick a fork on it, you're done

Available in 60- and 72-inch lengths, improved shaft-style forks enable better visibility to the fork tips compared to

HELPING HARD WORK LOOK EASY MAKE YOURSELF COMFORTABLE.

Redesigned cab features ergonomic controls, a more adjustable seat, an optional heated/ventilated seat (available only with the premium cab), a better HVAC system, and more legroom, storage, and power ports than previous models, making it easy to work hard in comfort and style.

Mobile office

All-new cab boasts three more inches of legroom than earlier models. Joystick controls, foot pedals, and sealed-switch module are all ergonomically placed for optimal comfort and convenience. Extra 12-volt and USB power ports and mounting points help keep all your devices charged up and within easy reach.

Stow your stuff

To create more storage area, the HVAC system was relocated outside the cab. There's plenty of space for a powered cooler, along with a handy 12-volt outlet. There's also a drinkcontainer holder with an adjustable strap, plus a coat hook.

Have a seat

Updated in stain-resistant cloth, the standard high-back air-ride seat is even more adjustable, for daylong comfort and support. Or choose the optional heated/ventilated premium seat (standard in the premium cab) with heavy-duty air-suspension and adjustable seat pan for even more comfort.

Stay cool

Blower vent behind the seat further maximizes airflow and defrosts the rear window. With convenient filter and service locations, the HVAC system is easy to maintain. Brushless motor provides infinite fan speeds, quiet operation, and efficient airflow.

Set and forget

Automatic temperature control (ATC) system (available only with the premium cab) allows operators to simply select a desired temperature instead of fiddling with knobs to get comfortable.

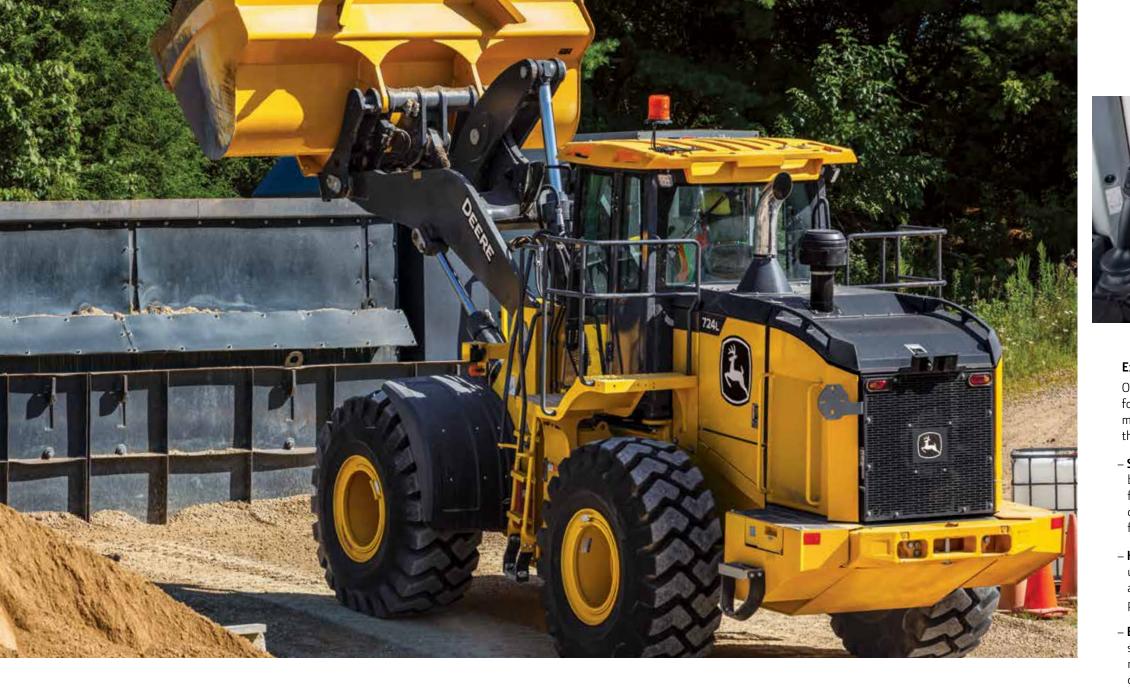
Vital info at a glance

Large seven-inch in-cab display with easy-on-the-eyes clarity enables intuitive push-button access to key info. Standard rearview camera displays the activity behind the machine on the LCD screen. Add a dedicated seven-inch rearview display to see the action behind and still have access to vital machine data at all times.

Seat-belt minder

Optional seat-belt monitoring system sends an alert to JDLink[™] if the seat belt is not latched within 30 seconds of the park brake being released.





BECOME MORE HANDS-ON GREATER PRODUCTIVITY IS WITHIN REACH.

Featuring redesigned joysticks and expanded, customizable electrohydraulic (EH) controls, L-Series Loaders put you in touch with ease and convenience.

Integrated joystick control

Operators can easily control up to six functions without letting go of the ergonomically designed joystick. F-N-R button provides convenient direction and full-range gear changes.

Low-effort short-throw control

Single-axis controls include two multifunction buttons on the bucket lever that can be programmed to handle any of up to 10 functions.





 compared to previous models.
Attachment configuration allows settings such as hydraulic flow and responsiveness to be conveniently stored for up to 10 different attachments.



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Expanded EH functionality

Operators can easily enable the following EH functions using the multifunction buttons and adjust them through the monitor:

 Soft hydraulic stops for both the boom and bucket can be enabled for smooth operation or temporarily disabled when the application calls for dislodging stubborn materials.

 Hydraulic-function flow can be used to customize flow for specific attachments without needing special plumbing or valves.

Bucket vibrate creates a slight shaking when dumping loose materials into hoppers or feeders, or when sprinkling rock over pipe.

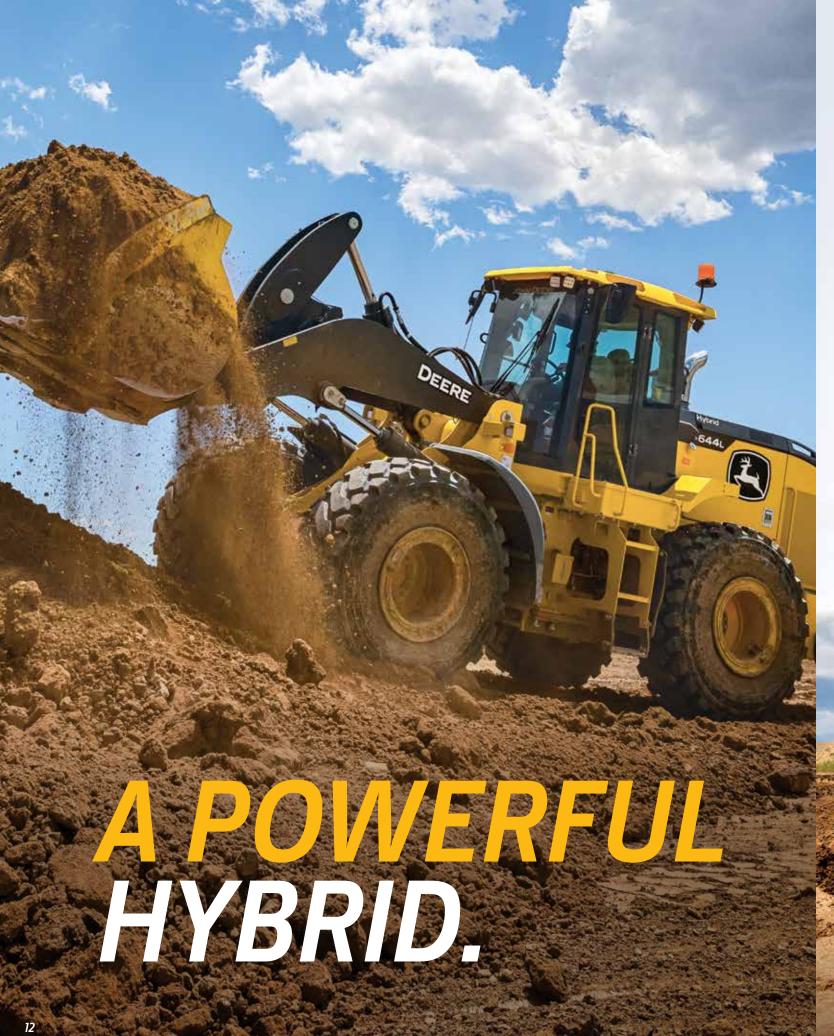
 EH Precision mode allows fine metering of the bucket and boom when precise movement is required, for example, laying pipe, moving heavy objects such as road barriers, or placing manholes.

Boom and bucket aggressiveness can be set to low, medium, and high, for quicker and more precise response compared to previous models.

New SSM functionality

Sealed-switch module (SSM) is repositioned under the monitor so it's in the operator's line of sight. Updated or new functions include:

- Return-to-dig now allows leveling of the bucket from both dump and curl positions, for quick and easy leveling.
- Constant-flow hydraulics allow the operator to continuously run attachments without having to hold a lever or roller at full stop.
- Throttle lock maintains a specified rpm so the operator can warm up a machine, run a continuous-flow attachment, or road the machine without having to hold the throttle pedal down.



PRODUCTIVE AND EFFICIENT FOR YOUR MULTIPLE PURPOSES.

In addition to burning less fuel while meeting EPA FT4/EU Stage V emissions requirements, the 644L Hybrid Loader also delivers quick, smooth, and responsive hydraulics; fast ramp-climbing ability; and strong pushing power.

Neighborhood friendly

Running wide open at 1,800 rpm, the in-cab noise rating is just 70 dBA. Noise is also less noticeable to bystanders, making this loader a good neighbor in residential areas.

Smooth moves

Purpose-built PowerShift[™] transmission provides smooth control through four forward speed ranges. Direction changes are performed by the electric motor, completely eliminating shifting in some truck-loading applications. Three constant operator-selected rpms help reduce engine wear, noise levels, and fuel consumption. Boom and bucket functions are powerful, responsive, and quick, without compromising fuel efficiency.

Ramp up productivity

Strong pushing power and quick ramp-climbing ability make the 644L Hybrid an excellent choice for maintaining stockpiles and heaping hoppers in cement plants and other production facilities.



Power without compromise

Save fuel

Hybrid-electric drive recaptures energy when the operator lets off the accelerator, lessening the load on the engine while reducing fuel consumption.

Coast to coast

Coast-control feature functions like dynamic braking in a hydrostatic transmission, slowing down the loader without touching a pedal and helping reduce service-brake component wear.

UP AND AT 'EM SPEND LESS TIME MAINTAINING AND MORE TIME WORKING.

Streamlined routing

Routing of electrical wire harnesses and hydraulic hoses has been streamlined to reduce rubbing.

Same-side service

All daily service points including fuel are conveniently grouped on the left side of the machine at ground level, for easy access.

Onboard diagnostics

Easy-to-navigate LCD monitor displays diagnostic messages if problems occur and even offers possible solutions to help get you back up and running quickly.

Innovative Quad-Cool™

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

You'll become a fan

Hydraulically driven fan runs only as needed for optimal cooling and fuel efficiency. Optional programmable fan automatically reverses at predetermined intervals to eject debris from the radiator and cooler cores. Or run individual cleaning cycles through the monitor.

Get valuable insight with JOHN DEERE WORKSIGHT[™]

724L

The John Deere WorkSight suite of construction technology delivers **Productivity Solutions** to help you get more done, more efficiently. The in-base, five-year JDLink[™] telematics subscription provides machine location, utilization data, and alerts to help you maximize productivity and efficiency. Other productivity solutions including grade-management and payload-weighing options are also available.

To maximize uptime and lower costs, JDLink telematics also enables **John Deere Connected Support**[™]. John Deere's centralized Machine Health Monitoring Center analyzes data from thousands of connected machines, identifies trends, and develops recommended actions, called Expert Alerts, to prevent downtime. Dealers use Expert Alerts to proactively address conditions that may otherwise likely lead to downtime. Your dealer can also monitor machine health and leverage remote diagnostics and programming capability to further diagnose problems and even update machine software without a time-consuming trip to the jobsite.





6 SPECIFICATIONS

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

Engine	644L Z-BAR / HIGH-I				644L HYBRID Z-BAR		
Manufacturer and Model	John Deere PowerTec				John Deere PowerTech		
Non-Road Emission Standard	EPA Final Tier 4/EU St	tage V			EPA Final Tier 4/EU St	tage V	
Cylinders Values Der Gulinder	6				6		
Valves Per Cylinder	4 6 8 L (//15 cu, ip.)				4 6 8 L (//15 cu. in.)		
Displacement	6.8 L (415 cu. in.)	00 mm			6.8 L (415 cu. in.)		
Net Peak Power (ISO 9249)	186 kW (249 hp) at 1,8				172 kW (231 hp) at 1,50		
Gross Peak Power (ISO 9249)	194 kW (260 hp) at 1,8				178 kW (238 hp) at 1,50		
Net Peak Torque (ISO 9249)	1061 Nm (783 lbft.) a				1095 Nm (808 lbft.)		
Gross Peak Torque (ISO 9249)	1100 Nm (811 lbft.) a 58%	t 1,400 rpm			1135 Nm (837 lbft.) a 36%	t 1,500 rpm	
Net Torque Rise Fuel System (electronically controlled)	High-pressure commo	n rail				n rail	
Lubrication	Full-flow spin-on filte				High-pressure commo Full-flow spin-on filte		
Aspiration	Series turbocharged,				Turbocharged, charge		
Air Cleaner			ion indicator in cab mor	aitor for service	Under-hood, dual-eler		
All Cleaner	onder-nood, duai-ele	ment dry type, restrict		III OF TOT SETVICE	tion indicator in cab m		
Cooling	644L Z-BAR / HIGH-I	LIFT 644L HYBRID Z-	BAR / HIGH-LIFT				
Fan Drive		proportionally controlle					
Electrical	644L Z-BAR / HIGH-I				644L HYBRID Z-BAR	/ HIGH-LIFT	
Electrical System		alternator (140-amp al		24 volt with 140-amp			
Batteries (2 – 12 volt)	950 CCA (each)				950 CCA (each)		
Transmission System	,				,		
Туре	Countershaft-type Po	werShift™			Countershaft-type Po	werShift	
Torque Converter	Single stage, single ph				N/A		
Motor/Generator	N/A				Brushless A/C		
Inverter	N/A				Solid-state power		
Shift Control		ted, adaptive, load and	speed dependent		Electronically modula and speed dependent		
Operator Interface	Steering-column or jo	ystick-mounted F-N-R	and gear-select lever; (Quick-Shift button on h			
Shift Modes		r 2nd–D); Quick-Shift I 4 clutch cutoff setting	outton with 2 selectabl s	e modes: kick-down	Manual/auto (1st–D o button with 2 selectal or kick-up/down; and	ble modes: kick-dowr	
	Standard 5-Speed Wit				cutoff settings		
	Lockup Torque Conver	ter	Optional 4-Speed		Standard 3-Speed Hyb		
Maximum Travel Speeds (with 23.5 R 25 tires)	Forward		Forward		Forward	Reverse	
Range 1	7.1 km/h (4.4 mph)	7.5 km/h (4.7 mph)	7.2 km/h (4.5 mph)	7.6 km/h (4.7 mph)	7.5 km/h (4.5 mph)	7.5 km/h (4.5 mph)	
Range 2	12.1 km/h (7.5 mph)	12.8 km/h (8.0 mph)	11.9 km/h (7.4 mph)	12.5 km/h (7.8 mph)	14.0 km/h (8.7 mph)	14.0 km/h (8.7 mph)	
Range 3	20.5 km/h (12.7 mph)	26.1 km/h (16.2 mph)	22.9 km/h (14.2 mph)	24.0 km/h (14.9 mph)	25.0 km/h (15.5 mph)	25.0 km/h (15.5 mph	
Range 4	24.7 km/h (15.3 mph)	N/A	35.2 km/h (21.9 mph)	N/A	40.0 km/h (24.9 mph)		
Range 5	40.0 km/h (24.9 mph)		N/A	N/A	N/A	N/A	
Axles/Brakes		LIFT 644L HYBRID Z-	BAR / HIGH-LIFT				
Final Drives	Heavy-duty inboard-r						
Differentials Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires)	26 deg. (13 deg. each		ar – standard; dual lock	ing front and rear – op	tional		
Brakes (conform to ISO 3450)							
Service	Hydraulically actuated	d, inboard sun-shaft m	ounted, oil cooled, self	adjusting, single disc			
Parking			sed, transmission integ	, , ,	disc		
Tires/Wheels	1 3 11						
(see page 20 for complete tire adjustments)							
	Tread Width		Width Over Tires				
Michelin 23.5 R 25, 1 Star L-3	2170 mm (85.4 in.)		2875 mm (113.2 in.)				
	644L Z-BAR /	644L HYBRID			644L Z-BAR /	644L HYBRID	
Serviceability	HIGH-LIFT	Z-BAR / HIGH-LIFT			HIGH-LIFT	Z-BAR / HIGH-LIFT	
Refill Capacities			Refill Capacities (con				
Fuel Tank (with lockable cap)	350 L (92.6 gal.)	350 L (92.6 gal.)	Transmission Reservo	ir With Vertical	23 L (24.3 qt.)	32 L (34 qt.)	
Diesel Exhaust Fluid (DEF)	18.5 L (19.5 qt.)	18.5 L (19.5 qt.)	Filter				
Cooling System	44 L (47 qt.)	63 L (67 qt.)	Axle Oil (front and rea		22 L (23 qt.)	22 L (23 qt.)	
Inverter	N/A	5.7 L (6.0 qt.)	Hydraulic Reservoir a		105.2 L (27.8 gal.)	103.4 L (27.3 gal.)	
Engine Oil With Vertical Spin-On Filter	27 L (28.5 qt.)	27 L (28.5 qt.)	Park Brake Oil (wet di	sc)	0.65 L (22 oz.)	N/A	
Hydraulic System/Steering	644L Z-BAR / HIGH-I				644L HYBRID Z-BAR	/ HIGH-LIFT	
Pump (loader and steering)		t, axial-piston pump; cl	osed-center, pressure-	compensating system			
Rated rpm	2,250 rpm				1,939 rpm		
Maximum Rated Flow at 6895 kPa (1,000 psi) and Rated rpm	310 L/m (82 gpm)				265 L/m (70 gpm)		
System Relief Pressure (loader and steering)	25 166 kPa (3,650 psi)				25 166 kPa (3,650 psi)		
Loader Controls						inction valve with	

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Hydraulic System/Steering (continued)	644L Z-BAR / HIGH-	LIFT	644L HYBRID Z-BA	R / HIGH-LIFT
Steering (conforms to ISO 5010)				
Туре	Power, fully hydraulio	:	Power, fully hydrauli	ic
Articulation Angle	80-deg. arc (40 deg.	each direction)	80-deg. arc (40 deg	. each direction)
Turning Radius (measured to centerline of outside tire)	5.64 m (18 ft. 6 in.)		5.64 m (18 ft. 6 in.)	
Hydraulic Cycle Times	Z-Bar	High-Lift	Z-Bar	High-Lift
Raise	5.3 sec.	5.3 sec.	6.2 sec.	6.2 sec.
Dump	1.4 sec.	1.4 sec.	1.7 sec.	1.7 sec.
Lower (power down)	3.8 sec.	4.0 sec.	3.8 sec.	4.0 sec.
Total	10.5 sec.	10.7 sec.	11.7 sec.	11.9 sec.
Dimensions and Specifications With Pin-On Bucket			644L Z-BAR AND HIGH	-LIFT LOADERS WITH PIN-ON BUCKE
				Cab

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	644L Z-Bar	644L Z-Bar	644L High-Lift	644L Hybrid Z-Bar	644L Hybrid Z-Bar	644L Hybrid High-Lift
	3.2-m ³ (4.25 cu. yd.)	3.4-m³ (4.5 cu. yd.)	3.2-m ³ (4.25 cu. yd.)	3.2-m³ (4.25 cu. yd.)	3.4-m³ (4.5 cu. yd.)	3.2-m ³ (4.25 c
	general-purpose	general-purpose	general-purpose	general-purpose	general-purpose	general-purp
mensions With Bucket	with bolt-on edge	with bolt-on edge	with bolt-on edge	with bolt-on edge	with bolt-on edge	with bolt-on
Height to Top of Cab	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)	3.45 m (11 ft.
Hood Height	2.51 m (8 ft. 3 in.)	2.51 m (8 ft. 3 in.)	2.51 m (8 ft. 3 in.)	2.51 m (8 ft. 3 in.)	2.51 m (8 ft. 3 in.)	2.51 m (8 ft. 3
Ground Clearance	386 mm (15.2 in.)	386 mm (15.2 in.)	386 mm (15.2 in.)	386 mm (15.2 in.)	386 mm (15.2 in.)	386 mm (15.2
Length From Centerline to Front Axle	1.66 m (5 ft. 5 in.)	1.66 m (5 ft. 5 in.)	1.66 m (5 ft. 5 in.)	1.66 m (5 ft. 5 in.)	1.66 m (5 ft. 5 in.)	1.66 m (5 ft. 5
Wheelbase	3.31 m (10 ft. 10 in.)	3.31 m (10 ft. 10 in.)	3.31 m (10 ft. 10 in.)	3.31 m (10 ft. 10 in.)	3.31 m (10 ft. 10 in.)	3.31 m (10 ft.
Overall Length, Bucket on Ground	8.33 m (27 ft. 4 in.)	8.38 m (27 ft. 6 in.)	8.72 m (28 ft. 7 in.)	8.26 m (27 ft. 1 in.)	8.31 m (27 ft. 3 in.)	8.72 m (28 ft
Height to Hinge Pin, Fully Raised	4.09 m (13 ft. 5 in.)	4.09 m (13 ft. 5 in.)	4.50 m (14 ft. 9 in.)	4.09 m (13 ft. 5 in.)	4.09 m (13 ft. 5 in.)	4.50 m (14 ft
Dump Clearance, 45 deg., Full Height	2.87 m (9 ft. 5 in.)	2.83 m (9 ft. 4 in.)	3.28 m (10 ft. 9 in.)	2.87 m (9 ft. 5 in.)	2.83 m (9 ft. 4 in.)	3.28 m (10 ft
Reach, 45-deg. Dump, Full Height	1.06 m (3 ft. 6 in.)	1.09 m (3 ft. 7 in.)	1.17 m (3 ft. 10 in.)	1.06 m (3 ft. 6 in.)	1.09 m (3 ft. 7 in.)	1.17 m (3 ft. 10
Reach, 45-deq. Dump, 2.13-m (7 ft. 0 in.) Clearance	1.61 m (5 ft. 3 in.)	1.62 m (5 ft. 4 in.)	2.02 m (6 ft. 8 in.)	1.61 m (5 ft. 3 in.)	1.62 m (5 ft. 4 in.)	2.02 m (6 ft.
Maximum Digging Depth	125 mm (5 in.)	129 mm (5 in.)	262 mm (10 in.)	125 mm (5 in.)	129 mm (5 in.)	262 mm (10 i
Maximum Rollback at Ground Level	45 deg.	45 deg.	45 deg.	45 deg.	45 deg.	45 deg.
Maximum Rollback, Boom Fully Raised	59 deg.	59 deg.	60 deg.	59 deg.	59 deg.	60 deg.
Maximum Bucket Dump Angle, Fully Raised	48 deg.	48 deg.	45 deg.	48 deg.	48 deg.	45 deg.
ader Clearance Circle, Bucket Carry Position	5	13.0 m (42 ft. 9 in.)	5	5	13.0 m (42 ft. 9 in.)	2
ecifications With Bucket				,		
Capacity, Heaped	3 3 m ³ (4 25 cu vd)	34 m^3 (450 cu vd)	3.3 m ³ (4.26 cu. yd.)	3 3 m ³ (4 25 cu vd)	34 m^3 (450 cu vd)	3.3 m^3 (4.26 μ
Capacity, Struck			2.7 m ³ (3.48 cu. yd.)			
Bucket Weight With Bolt-On Cutting Edge	1844 kg (4,066 lb.)		1695 kg (3,737 lb.)	1844 kg (4,066 lb.)		1695 kg (3,73
Bucket Width			3.04 m (10 ft. 0 in.)			J · · ·
Breakout Force			15 568 kg (34,321 lb.)			
Tipping Load, Straight, No Tire Deflection		J	12 413 kg (27,367 lb.)		J	2
Tipping Load, Straight, With Tire Deflection	3	J	11 718 kg (25,834 lb.)	3	3	J .
Tipping Load, 40-deg. Full Turn, No Tire Deflection			10 677 kg (23,540 lb.)			
Tipping Load, 40-deg. Full Turn, With Tire Deflection			9795 kg (21,594 lb.)			
Rated Operating Load, 50% Full-Turn Tipping Load, No Tire Deflection (conforms to ISO 14397-1)*			5339 kg (11,770 lb.)			
Rated Operating Load, 50% Full-Turn Tipping Load, With Tire Deflection (conforms to ISO 14397-1)*	5913 kg (13,036 lb.)	5861 kg (12,920 lb.)	4898 kg (10,797 lb.)	5771 kg (12,722 lb.)	5720 kg (12,609 lb.)	4919 kg (10,8
Operating Weight	18 709 kg (41,246 lb.)	18 744 kg (41,324 lb.)	18 894 kg (41,653 lb.)	18 856 kg (41,571 lb.)	18 892 kg (41,649 lb.)	19 218 kg (42,
Loader operating information is based on machine with bumper/counterweight, transmission side-frame guards, by changes in tires, ballast, and different attachments, c	bottom guards, stan	dard tires, full fuel ta	nk, and 79-kg (175 lb.) operator. This infori		

SPECIFICATIONS

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644L

Dimensions and Specifications With

Hi-Vis Coupler and Hook-On Bucket

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644L Z-BAR AND HIGH-LIFT LOADERS WITH

QUICK-COUPLER AND HOOK-ON BUCKET

Cab Ň Δ G H - J D Ċ K E F 644L Z-Bar 644L Z-Bar 644L High-Lift 644L High-Lift 644L Hybrid 644L Hybrid 644L Hvbrid 644L Hybrid 7-Rar Z-Bar High-Lift High-Lift 3.1-т³ (4.0 си. 3.2-m³ (4.25 cu. 3.1-m³ (4.0 cu. 3.2-m³ (4.25 cu. 3.1-m³ (4.0 cu. 3.2-m³ (4.25 cu. 3.2-m³ (4.25 cu. 3.1-m³ (4.0 cu. yd.) generalyd.) generalyd.) generalyd.) generalyd.) generalyd.) general vd.) generalvd.) generalpurpose with purpose with **Dimensions With Bucket** bolt-on edae A Height to Top of Cab 345 m (11 ft. 4 in.) 2.51 m (8 ft. 3 in.) B Hood Height **C** Ground Clearance 386 mm (15.2 in.) 386 mm (15.2 D Length From Centerline to Front Axle 1.66 m (5 ft. 5 in.) E Wheelbase 3 31 m (10 ft. 10 in.) F Overall Length, Bucket on Ground 8.38 m 8.43 m 8.77 m 8.82 m 8.31 m 8.35 m 8.77 m 8.82 m (27 ft. 6 in.) (27 ft 8 in) (28 ft 9 in) (28 ft 11 in) (27 ft. 3 in.) (27 ft 5 in) (28 ft 9 in) (28 ft. 11 in.) G Height to Hinge Pin, Fully Raised 4.09 m 4.09 m 4.50 m 4.50 m 4.09 m 4.09 m 4.50 m 4.50 m (13 ft. 5 in.) (13 ft. 5 in. (14 ft. 9 in.) (14 ft. 9 in.) (13 ft. 5 in.) (13 ft. 5 in.) (14 ft. 9 in.) (14 ft. 9 in.) H Dump Clearance, 45 deg., Full Height 3.25 m 3.22 m 2.84 m 2.81 m 3.22 m 2.84 m 2.81 m 3.25 m (9 ft. 4 in.) (9 ft. 2 in.) (10 ft. 8 in.) (10 ft. 7 in.) (9 ft. 4 in.) (9 ft. 2 in.) (10 ft. 8 in.) (10 ft. 7 in.) I Reach, 45-deg. Dump, Full Height 1.10 m (3 ft. 7 i 1.13 m (3 ft. 8 1.21 m (4 ft. 0 in.) 1.24 m (4 ft. 1.10 m (3 ft. 1 1.13 m (3 ft. 8 1.21 m (4 ft. 0 in.) 1.24 m (4 ft. 1 in.) J Reach, 45-deg. Dump, 2.13-m 1.63 m 2.05 m 2.06 m 1.63 m 1.64 m 2.05 m 2.06 m 1.64 m (7 ft. 0 in.) Clearance (5 ft. 4 in.) (5 ft. 5 in.) (6 ft. 9 in.) (6 ft. 9 in.) (5 ft. 4 in.) (5 ft. 5 in.) (6 ft. 9 in.) (6 ft. 9 in.) K Maximum Digging Depth 125 mm (5 in.) 129 mm (5 in. 262 mm (10 i 266 mm (10 125 mm (5 in 129 mm (5 in.) 262 mm (10 266 mm (10 in.) L Maximum Rollback at Ground Level 45 deg. M Maximum Rollback, Boom Fully Raised 60 deg. 60 deg. 59 deg. 59 deg. 60 deg. 60 deg. 59 deg. 59 deg. N Maximum Bucket Dump Angle, Fully Raised 48 deg. 48 deg. 45 deg. 45 deg. 48 deg. 48 deg. 45 deg. 45 deg. Loader Clearance Circle, Bucket Carry Position 13.0 m 13.0 m 13.5 m 13.5 m 13.0 m 13.0 m 13.5 m 13.5 m (42 ft. 9 in.) (42 ft. 9 in.) (44 ft. 3 in.) (44 ft. 4 in.) (42 ft. 9 in.) (42 ft. 9 in.) (44 ft. 3 in.) (44 ft. 4 in.) Specifications With Bucket 3.30 m³ 3.40 m³ 3.07 m³ 3.26 m³ 3 30 m³ 3.40 m³ 3.07 m³ 3 26 m³ Capacity, Heaped (4.50 cu. yd.) (4.50 cu. yd.) (4.02 cu. yd.) (4.26 cu. yd.) (4.02 cu. yd.) (4.26 cu. yd.) (4.25 cu. yd.) (4.25 cu. yd.) Capacity, Struck 2.70 m³ 2.80 m³ 2.51 m³ 2.66 m³ 2.70 m³ 2.80 m³ 2.51 m³ 2.66 m³ (3.47 cu. yd.) (3.68 cu. yd.) (3.28 cu. yd.) (3.48 cu. yd.) (3.47 cu. yd.) (3.68 cu. yd.) (3.28 cu. yd.) (3.48 cu. yd.) 1639 kg Bucket Weight With Bolt-On Cutting Edge 1844 kg 1880 ka 1695 ka 1844 kg 1880 ka 1639 kg 1695 ka (4,066 lb.) (4,145 lb.) (3,613 lb.) (3,737 lb.) (4,066 lb.) (4,145 lb.) (3,613 lb.) (3,737 lb.) Bucket Width 3.04 m (10 ft. 0 in.) Breakout Force 14 907 kg 14 419 kg 13 987 kg 13 569 kg 14 907 kg 14 419 kg 14 901 kg 14 414 kg (32,865 lb.) (31,789 lb.) (30,385 lb.) (29,914 lb.) (32,865 lb.) (31,789 lb.) (32,852 lb.) (31,778 lb.) Tipping Load, Straight, No Tire Deflection 14 246 kg 14 141 kg 11 431 kg 11 381 kg 13 801 kg 13 697 kg 11 747 kg 11 656 kg (31,407 lb.) (31,174 lb.) (25,202 lb.) (25,091 lb.) (30,425 lb.) (30,196 lb.) (25,898 lb.) (25.698 lb. Tipping Load, Straight, With Tire Deflection 13 347 ka 13 242 kg 10 770 kg 10 719 kg 12 924 kg 12 819 kg 11 067 kg 10 977 kg (29,425 lb.) (29,194 lb.) (23,744 lb. (23,631 lb.) (28,493 lb. (28,261 lb.) (24,399 lb.) (24,200 lb.) Tipping Load, 40-deg. Full Turn, No Tire 12 279 kg 12 181 ka 9764 ka 9718 ka 11 967 ka 11 870 ka 10 104 ka 10 018 ka (21,426 lb.) (27.071 lb.) (26.854 lb. (21.526 lb.) (26.383 lb.) (26.168 lb.) (22.275 lb.) (22.085 lb.) Deflection Tipping Load, 40-deg. Full Turn, With Tire 11 163 kg 11 061 kg 8919 kg 8871 kg 10 884 kg 10 782 kg 9246 kg 9156 kg Deflection (24,610 lb.) (24,385 lb. (19,663 lb.) (19,557 lb.) (23,995 lb.) (23,770 lb.) (20,384 lb.) (20,186 lb.) Rated Operating Load, 50% Full-Turn Tipping 6090 kg 4882 kg 4859 ka 5009 ka 6140 kg 5984 ka 5935 kg 5052 kg (13.084 lh (11,138 lb.) Load, No Tire Deflection (conforms to ISO (13.536 lb.) (13 427 lb) (10.763 lb.) (10713 lb) (13.192 lb.) (11.042 lb.) 14397-1)* Rated Operating Load, 50% Full-Turn Tipping 5582 kg 5531 kg 4460 kg 4436 kg 4578 kg 5442 kg 5391 kg 4623 kg (11,998 lb.) Load, With Tire Deflection (conforms to ISO (12,305 lb.) (12,193 lb.) (9,832 lb.) (9,779 lb.) (11,885 lb.) (10,192 lb.) (10,093 lb.) 14397-1)* **Operating Weight** 19 134 kg 19 190 kg 19 449 kg 19 465 kg 19 281 kg 19 338 kg 19 643 kg 19 700 kg (42,182 lb.) (42,307 lb.) (42,877 lb.) (42,913 lb.) (42,507 lb.) (42,632 lb.) (43,305 lb.) (43,430 lb.)

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644L Z-BAR / HIGH-LIFT

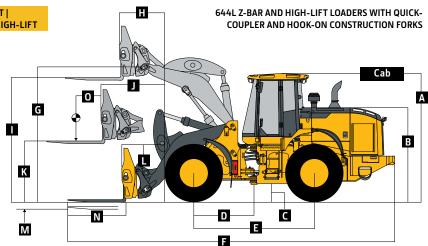
644L HYBRID Z-BAR / HIGH-LIFT

Loader operating information is based on machine with identified linkage and standard equipment, PowerTech PSS 6068 (EPA Final Tier 4/EU Stage V) engine, ROPS cab, rear cast bumper counterweight, transmission side-frame guards, bottom guards, standard tires, full fuel tank, and 79-kg (175 lb.) operator. This information is affected by changes in tires, ballast, and different attachments, and assumes no tire deflection per the standard ISO 14397-1 section 5.

*Rated operating capacity based on Deere attachments only.

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644L Z-BAR / HIGH-LIFT **Dimensions and Specifications With Hi-Vis Coupler and Construction Forks** 644L HYBRID Z-BAR / HIGH-LIFT



	644L Z-Bar	644L Z-Bar	6441 High-Lift	644L High-Lift	6441 Hybrid	644L Hybrid	644L Hybrid	644L Hybrid
			5	5	Z-Bar	Z-Bar	High-Lift	High-Lift
	1.52-m (60 in.)	1.83-m (72 in.)	1.52-m (60 in.)	1.83-m (72 in.)	1.52-m (60 in.)	1.83-m (72 in.)	1.52-m (60 in.)	1.83-m (72 in.)
	tine length	tine length	tine length	tine length	tine length	tine length	tine length	tine length
5 1	3.45 m	3.45 m	3.45 m	3.45 m	3.45 m	3.45 m	3.45 m	3.45 m
	(11 ft. 4 in.)	(11 ft. 4 in.)	(11 ft. 4 in.)	(11 ft. 4 in.)	(11 ft. 4 in.)	(11 ft. 4 in.)	(11 ft. 4 in.)	(11 ft. 4 in.)
5	2.51 m	2.51 m	2.51 m	2.51 m	2.51 m	2.51 m	2.51 m	2.51 m
	(8 ft. 3 in.)	(8 ft. 3 in.)	(8 ft. 3 in.)	(8 ft. 3 in.)	(8 ft. 3 in.)	(8 ft. 3 in.)	(8 ft. 3 in.)	(8 ft. 3 in.)
	386 mm	386 mm	386 mm	386 mm	386 mm	386 mm	386 mm	386 mm
	(15.2 in.)	(15.2 in.)	(15.2 in.)	(15.2 in.)	(15.2 in.)	(15.2 in.)	(15.2 in.)	(15.2 in.)
Length From Centerline to Front Axle	1.66 m	1.66 m	1.66 m	1.66 m	1.66 m	1.66 m	1.66 m	1.66 m
	(5 ft. 5 in.)	(5 ft. 5 in.)	(5 ft. 5 in.)	(5 ft. 5 in.)	(5 ft. 5 in.)	(5 ft. 5 in.)	(5 ft. 5 in.)	(5 ft. 5 in.)
Wheelbase	3.31 m	3.31 m	3.31 m	3.31 m	3.31 m	3.31 m	3.31 m	3.31 m
	(10 ft. 10 in.)	(10 ft. 10 in.)	(10 ft. 10 in.)	(10 ft. 10 in.)	(10 ft. 10 in.)	(10 ft. 10 in.)	(10 ft. 10 in.)	(10 ft. 10 in.)
Overall Length, Forks on Ground	9.01 m	9.32 m	9.41 m	9.71 m	9.01 m	9.32 m	9.41 m	9.71 m
	(29 ft. 7 in.)	(30 ft. 7 in.)	(30 ft. 10 in.)	(31 ft. 10 in.)	(29 ft. 7 in.)	(30 ft. 7 in.)	(30 ft. 10 in.)	(31 ft. 10 in.)
Height to Hinge Pin, Fully Raised	4.09 m	4.09 m	4.50 m	4.50 m	4.09 m	4.09 m	4.50 m	4.50 m
	(13 ft. 5 in.)	(13 ft. 5 in.)	(14 ft. 9 in.)	(14 ft. 9 in.)	(13 ft. 5 in.)	(13 ft. 5 in.)	(14 ft. 9 in.)	(14 ft. 9 in.)
	820 mm (32 in.)	820 mm (32 in.)	930 mm (3 ft. 1 in.)	930 mm (3 ft. 1 in.)	820 mm (32 in.)	820 mm (32 in.)	930 mm (3 ft. 1 in.)	930 mm (3 ft. 1 in.)
<u> </u>	3.78 m	3.78 m	4.19 m	4.19 m	3.78 m	3.78 m	4.19 m	4.19 m
	(12 ft. 5 in.)	(12 ft. 5 in.)	(13 ft. 9 in.)	(13 ft. 9 in.)	(12 ft. 5 in.)	(12 ft. 5 in.)	(13 ft. 9 in.)	(13 ft. 9 in.)
Maximum Reach, Fork Level	1.70 m	1.70 m	2.05 m	2.05 m	1.70 m	1.70 m	2.05 m	2.05 m
	(5 ft. 7 in.)	(5 ft. 7 in.)	(6 ft. 9 in.)	(6 ft. 9 in.)	(5 ft. 7 in.)	(5 ft. 7 in.)	(6 ft. 9 in.)	(6 ft. 9 in.)
Fork Height, Maximum Reach	1.70 m	1.70 m	1.74 m	1.74 m	1.70 m	1.70 m	1.74 m	1.74 m
	(5 ft. 7 in.)	(5 ft. 7 in.)	(5 ft. 9 in.)	(5 ft. 9 in.)	(5 ft. 7 in.)	(5 ft. 7 in.)	(5 ft. 9 in.)	(5 ft. 9 in.)
	1.16 m	1.16 m	1.56 m	1.56 m	1.16 m	1.16 m	1.56 m	1.56 m
	(3 ft. 10 in.)	(3 ft. 10 in.)	(5 ft. 1 in.)	(5 ft. 1 in.)	(3 ft. 10 in.)	(3 ft. 10 in.)	(5 ft. 1 in.)	(5 ft. 1 in.)
1 Depth Below Ground	90 mm (3 in.)	90 mm (3 in.)	220 mm (9 in.)	220 mm (9 in.)	90 mm (3 in.)	90 mm (3 in.)	220 mm (9 in.)	220 mm (9 in
	1.52 m (60 in.)	1.83 m (72 in.)	1.52 m (60 in.)	1.83 m (72 in.)	1.52 m (60 in.)	1.83 m (72 in.)	1.52 m (60 in.)	1.83 m (72 in.)
Load Position, 50% Tine Length	760 mm (30 in.)	910 mm (36 in.)	760 mm (30 in.)	910 mm (36 in.)	760 mm (30 in.)	910 mm (36 in.)	760 mm (30 in.)	910 mm (36 ir
Specifications With Forks								
	9950 kg	9436 kg	8637 kg	8220 kg	9646 kg	9146 kg	8630 kg	8213 kg
	(21,935 lb.)	(20,803 lb.)	(19,042 lb.)	(18,121 lb.)	(21,267 lb.)	(20,164 lb.)	(19,026 lb.)	(18,106 lb.)
	9666 kg	9171 kg	8394 kg	7989 kg	9366 kg	8886 kg	8382 kg	7983 kg
	(21,310 lb.)	(20,219 lb.)	(18,506 lb.)	(17,613 lb.)	(20,648 lb.)	(19,590 lb.)	(18,479 lb.)	(17,599 lb.)
	8610 kg	8156 kg	7429 kg	7060 kg	8397 kg	7953 kg	7461 kg	7090 kg
	(18,981 lb.)	(17,981 lb.)	(16,379 lb.)	(15,565 lb.)	(18,513 lb.)	(17,533 lb.)	(16,448 lb.)	(15,632 lb.)
11 5	8232 kg	7803 kg	7092 kg	6744 kg	8028 kg	7608 kg	7125 kg	6777 kg
	(18,148 lb.)	(17,203 lb.)	(15,635 lb.)	(14,868 lb.)	(17,699 lb.)	(16,773 lb.)	(15,708 lb.)	(14,941 lb.)
	4116 kg	3902 kg	3546 kg	3372 kg	4014 kg	3804 kg	3563 kg	3389 kg
	(9,074 lb.)	(8,601 lb.)	(7,818 lb.)	(7,434 lb.)	(8,849 lb.)	(8,386 lb.)	(7,854 lb.)	(7,470 lb.)
Rated Operating Load, Rough Terrain, 60%	4939 kg	4682 kg	4255 kg	4046 kg	4817 kg	4565 kg	4275 kg	4066 kg
	(10,889 lb.)	(10,322 lb.)	(9,381 lb.)	(8,921 lb.)	(10,619 lb.)	(10,064 lb.)	(9,425 lb.)	(8,964 lb.)
Rated Operating Load, Firm and Level	6586 kg	6242 kg	5674 kg	5395 kg	6422 kg	6086 kg	5700 kg	5422 kg
Ground, 80% Full-Turn Tipping Load, With	(14,519 lb.)	(13,762 lb.)	(12,508 lb.)	(1,894 lb.)	(14,159 lb.)	(13,418 lb.)	(12,566 lb.)	(11,953 lb.)
Tire Deflection (conforms to EN474-3)*	18 603 kg	18 663 kg	18 787 kg	18 847 kg	18 750 kg	18 810 kg	19 112 kg	19 172 kg

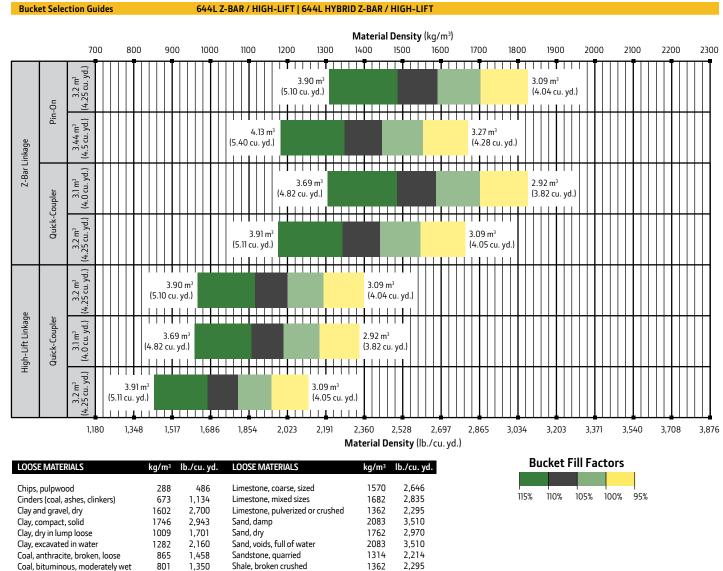
*Rated operating capacity based on Deere attachments only.



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and Tipping Loads With Buckets		LIFT 644L HYBRID Z								
Adjustments to operating weights, tipping loads, and tires are based on Z-Bar machine with pin-on 3.2-m ³ (4.25 cu. yd.) general-purpose bucket with bolt-on cutting edge, ROPS										
cab, rear cast bumper/counterweight, transr	nission side-frame gu	ards, bottom guards, s	tandard tires, full fuel	tank, and 79-kg (175 ll	o.) operator*					
Add (+) or deduct (–) kg (lb.) as indicated		Tipping Load,	Tipping Load,							
for loaders with 3-piece rims	Operating Weight	Straight	40-deg. Full Turn	Tread Width	Width Over Tires	Vertical Height				
Standard Z-Bar With Torque Converter	0 kg (0 lb.)	0 kg (0 lb.)	0 kg (0 lb.)	N/A	N/A	N/A				
Transmission										
Standard Z-Bar With Hybrid-Electric Drive	+148 kg (+325 lb.)	–457 kg (–1,007 lb.)	–320 kg (–706 lb.)	N/A	N/A	N/A				
High-Lift With Hybrid-Electric Drive	+324 kg (+714 lb.)	–10 kg (–22 lb.)	+46 kg (+101 lb.)	N/A	N/A	N/A				
Michelin 23.5 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 23.5 R 25, 1 Star L-3	+101 kg (+223 lb.)	+771 kg (+170 lb.)	+68 kg (+150 lb.)	–3 mm (–0.1 in.)	+15 mm (+0.6 in.)	+39 mm (+1.5 in.)				
Titan 23.5-25, 20 PR L-3	–271 kg (–597 lb.)	–207 kg (–456 lb.)	–183 kg (–402 lb.)	–3 mm (–0.1 in.)	+33 mm (+1.3 in.)	+29 mm (+1.1 in.)				
Titan 725/70-25 16-Ply L-4T (Logger Style) ^{†§®}	+359 kg (+792 lb.)	+285 kg (+629 lb.)	+252 kg (+555 lb.)	+34 mm (+1.4 in.)	+119 mm (+4.7 in.)	+78 mm (+3.1 in.)				
Michelin 750/65 R 25, 1 Star L-3T ^{†§®}	+715 kg (+1,577 lb.)	+557 kg (+1,228 lb.)	+492 kg (+1,084 lb.)	+34 mm (+1.4 in.)	+140 mm (+5.5 in.)	+42 mm (+1.7 in.)				
*May change based on vehicle configuration,	weight, or tire-pressu	re adjustments.								
[†] Equipped with 5-piece heavy-duty rims.										
[§] CaCl, not recommended.										
[®] Requires 9-deg. rear axle stops.										



LUUSE MATERIALS	Kg/m∘	ib./cu. ya.	LUUSE MATERIALS	kg/m²	ib./cu. ya.
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 (0.75") size	1602	2,700



SPECIFICATIONS

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Engine	724L Z-BAR / HIGH-LIFT						
Manufacturer and Model	John Deere PowerTech [™] PSS	6090	Gross Peak Torqu	e (ISO 9249)	1325 Nm	(977 lbft.) at 1,300 rpm	
Non-Road Emission Standard	EPA Final Tier 4/EU Stage V		Net Torque Rise		48%		
Cylinders	6		Fuel System (elec	tronically controlled)	High-pre	essure common rail	
Valves Per Cylinder	4		Lubrication			spin-on filter and integral coole	
Displacement	9.0 L (548 cu. in.)		Aspiration			rbocharged, charge air cooled	
Net Peak Power (ISO 9249)	200 kW (268 hp) at 1,800 rp	m	Air Cleaner			ood, dual-element dry type,	
Gross Peak Power (ISO 9249)	206 kW (276 hp) at 1,800 rp					on indicator in cab monitor	
Net Peak Torque (ISO 9249)	1290 Nm (951 lbft.) at 1,400				for servi		
Cooling		orpin					
Fan Drive	Hydraulically driven, propor	tionally cont	rolled fap aft of c	olors			
Electrical	Hydraulically driven, propor	cionally conc		JOIELS			
	24 welt with 100 area altern	atas (140 as		1)			
Electrical System	24 volt with 100-amp altern	ator (140-arr	ip alternator optio	nai)			
Batteries (2 – 12 volt)	950 CCA (each)						
Transmission System		- C - 74					
Туре	Countershaft-type PowerSh	ift"					
Torque Converter	Single stage, single phase						
Shift Control	Electronically modulated, ac						
Operator Interface	Steering-column or joystick						
Shift Modes	Manual/auto (1st-D or 2nd-D); Quick-Shift button with 2 selectable modes: kick-down or kick-up/down; and 4 clutch						
	cutoff settings						
	Standard 5-Speed With Lock	cup Torque Co	onverter	Optional 4-Speed			
Maximum Travel Speeds		-					
(with 23.5 R 25, 1 Star L3 tires)	Forward	Reverse		Forward		Reverse	
Range 1	7.1 km/h (4.4 mph)	7.5 km/h	(4.7 mph)	7.2 km/h (4.5 mph)		7.6 km/h (4.7 mph)	
Range 2	12.1 km/h (7.5 mph)		h (8.0 mph)	11.9 km/h (7.4 mph)		12.5 km/h (7.7 mph)	
Range 3	20.5 km/h (12.7 mph)		1 (16.2 mph)	22.9 km/h (14.2 mpł	n)	23.9 km/h (14.9 mph)	
Range 4	24.7 km/h (15.3 mph)	N/A	1 (10.2 mpn)	35.2 km/h (21.9 mph		N/A	
Range 5	40.0 km/h (24.9 mph)	N/A		N/A	1)	N/A	
Axles/Brakes	40.0 km/n (24.9 mph)	IN/A		IN/A		N/A	
Final Drives	Henry duty inheard mount	od planetary					
	Heavy-duty inboard-mount	ed planetary					
	- I I show the local free float of the second state						
Differentials	Hydraulic locking front with	conventiona		dual locking front and re	ear – optio	onal	
Rear Axle Oscillation, Stop to Stop	Hydraulic locking front with 26 deg. (13 deg. each directi	conventiona		dual locking front and re	ear – optio	onal	
Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires)		conventiona		dual locking front and r	ear – optic	onal	
Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450)	26 deg. (13 deg. each directi	conventiona on)	al rear – standard; (
Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) Service	26 deg. (13 deg. each directi Hydraulically actuated, sprir	conventiona on) ng retracted,	al rear – standard; (self-adjusting, inb	oard sun-shaft mounte			
Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking	26 deg. (13 deg. each directi	conventiona on) ng retracted,	al rear – standard; (self-adjusting, inb	oard sun-shaft mounte			
Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels	26 deg. (13 deg. each directi Hydraulically actuated, sprir	conventiona on) ng retracted,	al rear – standard; (self-adjusting, inb	oard sun-shaft mounte			
Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking	26 deg. (13 deg. each directi Hydraulically actuated, sprir Automatic spring applied, hy	conventiona on) ng retracted,	al rear – standard; (self-adjusting, inb eleased, oil cooled,	oard sun-shaft mounte			
Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 26 for complete tire adjustments)	26 deg. (13 deg. each directi Hydraulically actuated, sprin Automatic spring applied, hy Tread Width	conventiona on) ng retracted,	al rear – standard; (self-adjusting, inb eleased, oil cooled Width Over Tires	oard sun-shaft mounte multi disc			
Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels	26 deg. (13 deg. each directi Hydraulically actuated, sprir Automatic spring applied, hy	conventiona on) ng retracted,	al rear – standard; (self-adjusting, inb eleased, oil cooled,	oard sun-shaft mounte multi disc			
Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 26 for complete tire adjustments)	26 deg. (13 deg. each directi Hydraulically actuated, sprin Automatic spring applied, hy Tread Width	conventiona on) ng retracted,	al rear – standard; (self-adjusting, inb eleased, oil cooled Width Over Tires	oard sun-shaft mounte multi disc			
Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 26 for complete tire adjustments) Michelin 23.5 R 25, 1 Star L-3 Serviceability Refill Capacities	26 deg. (13 deg. each directi Hydraulically actuated, sprin Automatic spring applied, hy Tread Width	conventiona on) ng retracted,	al rear – standard; self-adjusting, inb eleased, oil cooled, Width Over Tires 2880 mm (113.4 ir	oard sun-shaft mounte multi disc 1.)	d, oil cool	ed, single disc	
Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 26 for complete tire adjustments) Michelin 23.5 R 25, 1 Star L-3 Serviceability	26 deg. (13 deg. each directi Hydraulically actuated, sprin Automatic spring applied, hy Tread Width	conventiona on) ng retracted,	al rear – standard; self-adjusting, inb eleased, oil cooled, Width Over Tires 2880 mm (113.4 ir	oard sun-shaft mounte multi disc 1.)	d, oil cool	ed, single disc	
Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 26 for complete tire adjustments) Michelin 23.5 R 25, 1 Star L-3 Serviceability Refill Capacities	26 deg. (13 deg. each directi Hydraulically actuated, sprin Automatic spring applied, hy <i>Tread Width</i> 2170 mm (85.4 in.) 351 L (92.6 gal.)	conventiona on) ng retracted,	al rear – standard; self-adjusting, inb eleased, oil cooled <i>Width Over Tires</i> 2880 mm (113.4 ir Transmission Rese	oard sun-shaft mounte multi disc	d, oil cool	ed, single disc 3 qt.)	
Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 26 for complete tire adjustments) Michelin 23.5 R 25, 1 Star L-3 Serviceability Refill Capacities Fuel Tank (with lockable cap) Diesel Exhaust Fluid (DEF)	26 deg. (13 deg. each directi Hydraulically actuated, sprin Automatic spring applied, hy <i>Tread Width</i> 2170 mm (85.4 in.)	conventiona on) ng retracted,	al rear – standard; self-adjusting, inb eleased, oil cooled <i>Width Over Tires</i> 2880 mm (113.4 ir Transmission Rese Axle Oil Without	oard sun-shaft mounte multi disc h.) rvoir With Vertical Filter	d, oil cool 23 L (24.	ed, single disc 3 qt.)	
Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 26 for complete tire adjustments) Michelin 23.5 R 25, 1 Star L-3 Serviceability Refill Capacities Fuel Tank (with lockable cap) Diesel Exhaust Fluid (DEF) Cooling System	26 deg. (13 deg. each directi Hydraulically actuated, sprin Automatic spring applied, hy <i>Tread Width</i> 2170 mm (85.4 in.) 351 L (92.6 gal.) 18.5 L (19.5 qt.) 48 L (51 qt.)	conventiona on) ng retracted,	al rear – standard; self-adjusting, inb eleased, oil cooled, <i>Width Over Tires</i> 2880 mm (113.4 ir Transmission Rese Axle Oil Without rear, each)	oard sun-shaft mounte multi disc h.) rvoir With Vertical Filter Coolers (front and	d, oil cool 23 L (24. 22 L (23	ed, single disc 3 qt.) qt.)	
Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 26 for complete tire adjustments) Michelin 23.5 R 25, 1 Star L-3 Serviceability Refill Capacities Fuel Tank (with lockable cap) Diesel Exhaust Fluid (DEF) Cooling System Engine Oil With Vertical Spin-On	26 deg. (13 deg. each directi Hydraulically actuated, sprin Automatic spring applied, hy <i>Tread Width</i> 2170 mm (85.4 in.) 351 L (92.6 gal.) 18.5 L (19.5 qt.)	conventiona on) ng retracted,	al rear – standard; self-adjusting, inb eleased, oil cooled, <i>Width Over Tires</i> 2880 mm (113.4 ir Transmission Rese Axle Oil Without rear, each) Hydraulic Reserve	oard sun-shaft mounte multi disc) rvoir With Vertical Filter Coolers (front and pir and Filter	d, oil cool 23 L (24. 22 L (23 105.2 L (2	ed, single disc 3 qt.) qt.) 27.8 gal.)	
Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 26 for complete tire adjustments) Michelin 23.5 R 25, 1 Star L-3 Serviceability Refill Capacities Fuel Tank (with lockable cap) Diesel Exhaust Fluid (DEF) Cooling System Engine Oil With Vertical Spin-On Filter	26 deg. (13 deg. each directi Hydraulically actuated, sprin Automatic spring applied, hy <i>Tread Width</i> 2170 mm (85.4 in.) 351 L (92.6 gal.) 18.5 L (19.5 qt.) 48 L (51 qt.)	conventiona on) ng retracted,	al rear – standard; self-adjusting, inb eleased, oil cooled, <i>Width Over Tires</i> 2880 mm (113.4 ir Transmission Rese Axle Oil Without rear, each)	oard sun-shaft mounte multi disc) rvoir With Vertical Filter Coolers (front and pir and Filter	d, oil cool 23 L (24. 22 L (23	ed, single disc 3 qt.) qt.) 27.8 gal.)	
Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 26 for complete tire adjustments) Michelin 23.5 R 25, 1 Star L-3 Serviceability Refill Capacities Fuel Tank (with lockable cap) Diesel Exhaust Fluid (DEF) Cooling System Engine Oil With Vertical Spin-On Filter Hydraulic System/Steering	26 deg. (13 deg. each directi Hydraulically actuated, sprin Automatic spring applied, hy <i>Tread Width</i> 2170 mm (85.4 in.) 351 L (92.6 gal.) 18.5 L (19.5 qt.) 48 L (51 qt.) 28 L (29.5 qt.)	conventiona on) ng retracted, ydraulically r	al rear – standard; self-adjusting, inb eleased, oil cooled, <i>Width Over Tires</i> 2880 mm (113.4 ir Transmission Rese Axle Oil Without rear, each) Hydraulic Reserve Park Brake Oil (w	oard sun-shaft mounte multi disc n.) rvoir With Vertical Filter Coolers (front and bir and Filter et disc)	d, oil cool 23 L (24. 22 L (23 105.2 L (2 0.65 L (2	ed, single disc 3 qt.) qt.) 27.8 gal.)	
Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 26 for complete tire adjustments) Michelin 23.5 R 25, 1 Star L-3 Serviceability Refill Capacities Fuel Tank (with lockable cap) Diesel Exhaust Fluid (DEF) Cooling System Engine Oil With Vertical Spin-On Filter Hydraulic System/Steering Pump (loader and steering)	26 deg. (13 deg. each directi Hydraulically actuated, sprin Automatic spring applied, hy <i>Tread Width</i> 2170 mm (85.4 in.) 351 L (92.6 gal.) 18.5 L (19.5 qt.) 48 L (51 qt.) 28 L (29.5 qt.) Variable-displacement, axial	conventiona on) ng retracted, ydraulically r	al rear – standard; self-adjusting, inb eleased, oil cooled, <i>Width Over Tires</i> 2880 mm (113.4 ir Transmission Rese Axle Oil Without rear, each) Hydraulic Reserve Park Brake Oil (w	oard sun-shaft mounte multi disc n.) rvoir With Vertical Filter Coolers (front and bir and Filter et disc)	d, oil cool 23 L (24. 22 L (23 105.2 L (2 0.65 L (2	ed, single disc 3 qt.) qt.) 27.8 gal.)	
Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 26 for complete tire adjustments) Michelin 23.5 R 25, 1 Star L-3 Serviceability Refill Capacities Fuel Tank (with lockable cap) Diesel Exhaust Fluid (DEF) Cooling System Engine Oil With Vertical Spin-On Filter Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa	26 deg. (13 deg. each directi Hydraulically actuated, sprin Automatic spring applied, hy <i>Tread Width</i> 2170 mm (85.4 in.) 351 L (92.6 gal.) 18.5 L (19.5 qt.) 48 L (51 qt.) 28 L (29.5 qt.)	conventiona on) ng retracted, ydraulically r	al rear – standard; self-adjusting, inb eleased, oil cooled, <i>Width Over Tires</i> 2880 mm (113.4 ir Transmission Rese Axle Oil Without rear, each) Hydraulic Reserve Park Brake Oil (w	oard sun-shaft mounte multi disc n.) rvoir With Vertical Filter Coolers (front and bir and Filter et disc)	d, oil cool 23 L (24. 22 L (23 105.2 L (2 0.65 L (2	ed, single disc 3 qt.) qt.) 27.8 gal.)	
Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 26 for complete tire adjustments) Michelin 23.5 R 25, 1 Star L-3 Serviceability Refill Capacities Fuel Tank (with lockable cap) Diesel Exhaust Fluid (DEF) Cooling System Engine Oil With Vertical Spin-On Filter Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,250 rpm	26 deg. (13 deg. each directi Hydraulically actuated, sprin Automatic spring applied, hy <i>Tread Width</i> 2170 mm (85.4 in.) 351 L (92.6 gal.) 18.5 L (19.5 qt.) 48 L (51 qt.) 28 L (29.5 qt.) Variable-displacement, axial 310 L/m (82 gpm)	conventiona on) ng retracted, ydraulically r	al rear – standard; (self-adjusting, inb eleased, oil cooled, <i>Width Over Tires</i> 2880 mm (113.4 ir Transmission Rese Axle Oil Without rear, each) Hydraulic Reserve Park Brake Oil (w	oard sun-shaft mounte multi disc n.) rvoir With Vertical Filter Coolers (front and bir and Filter et disc)	d, oil cool 23 L (24. 22 L (23 105.2 L (2 0.65 L (2	ed, single disc 3 qt.) qt.) 27.8 gal.)	
Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 26 for complete tire adjustments) Michelin 23.5 R 25, 1 Star L-3 Serviceability Refill Capacities Fuel Tank (with lockable cap) Diesel Exhaust Fluid (DEF) Cooling System Engine Oil With Vertical Spin-On Filter Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,250 rpm System Relief Pressure (loader and	26 deg. (13 deg. each directi Hydraulically actuated, sprin Automatic spring applied, hy <i>Tread Width</i> 2170 mm (85.4 in.) 351 L (92.6 gal.) 18.5 L (19.5 qt.) 48 L (51 qt.) 28 L (29.5 qt.) Variable-displacement, axial	conventiona on) ng retracted, ydraulically r	al rear – standard; (self-adjusting, inb eleased, oil cooled, <i>Width Over Tires</i> 2880 mm (113.4 ir Transmission Rese Axle Oil Without rear, each) Hydraulic Reserve Park Brake Oil (w	oard sun-shaft mounte multi disc n.) rvoir With Vertical Filter Coolers (front and bir and Filter et disc)	d, oil cool 23 L (24. 22 L (23 105.2 L (2 0.65 L (2	ed, single disc 3 qt.) qt.) 27.8 gal.)	
Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 26 for complete tire adjustments) Michelin 23.5 R 25, 1 Star L-3 Serviceability Refill Capacities Fuel Tank (with lockable cap) Diesel Exhaust Fluid (DEF) Cooling System Engine Oil With Vertical Spin-On Filter Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,250 rpm System Relief Pressure (loader and steering)	26 deg. (13 deg. each directi Hydraulically actuated, sprin Automatic spring applied, hy <i>Tread Width</i> 2170 mm (85.4 in.) 351 L (92.6 gal.) 18.5 L (19.5 qt.) 48 L (51 qt.) 28 L (29.5 qt.) Variable-displacement, axial 310 L/m (82 gpm) 27 580 kPa (4,000 psi)	conventiona on) ng retracted, ydraulically r	al rear – standard; self-adjusting, inb eleased, oil cooled, <i>Width Over Tires</i> 2880 mm (113.4 ir Transmission Rese Axle Oil Without rear, each) Hydraulic Reserve Park Brake Oil (w	oard sun-shaft mounte multi disc n.) rvoir With Vertical Filter Coolers (front and bir and Filter et disc) ressure-compensating	d, oil cool 23 L (24. 22 L (23 105.2 L (2 0.65 L (2 system	ed, single disc 3 qt.) qt.) 27.8 gal.) 2 oz.)	
Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 26 for complete tire adjustments) Michelin 23.5 R 25, 1 Star L-3 Serviceability Refill Capacities Fuel Tank (with lockable cap) Diesel Exhaust Fluid (DEF) Cooling System Engine Oil With Vertical Spin-On Filter Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,250 rpm System Relief Pressure (loader and	26 deg. (13 deg. each directi Hydraulically actuated, sprin Automatic spring applied, hy <i>Tread Width</i> 2170 mm (85.4 in.) 351 L (92.6 gal.) 18.5 L (19.5 qt.) 48 L (51 qt.) 28 L (29.5 qt.) Variable-displacement, axial 310 L/m (82 gpm) 27 580 kPa (4,000 psi) 2-function valve; joystick co	conventiona on) ng retracted, ydraulically r	al rear – standard; self-adjusting, inb eleased, oil cooled, <i>Width Over Tires</i> 2880 mm (113.4 ir Transmission Rese Axle Oil Without rear, each) Hydraulic Reserve Park Brake Oil (w p; closed-center, p ertip controls; hyd	oard sun-shaft mounte multi disc n.) rvoir With Vertical Filter Coolers (front and bir and Filter et disc) ressure-compensating s raulic-function enable/o	d, oil cool 23 L (24. 22 L (23 105.2 L (2 0.65 L (2 system	ed, single disc 3 qt.) qt.) 27.8 gal.)	
Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 26 for complete tire adjustments) Michelin 23.5 R 25, 1 Star L-3 Serviceability Refill Capacities Fuel Tank (with lockable cap) Diesel Exhaust Fluid (DEF) Cooling System Engine Oil With Vertical Spin-On Filter Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,250 rpm System Relief Pressure (loader and steering) Loader Controls	26 deg. (13 deg. each directi Hydraulically actuated, sprin Automatic spring applied, hy <i>Tread Width</i> 2170 mm (85.4 in.) 351 L (92.6 gal.) 18.5 L (19.5 qt.) 48 L (51 qt.) 28 L (29.5 qt.) Variable-displacement, axial 310 L/m (82 gpm) 27 580 kPa (4,000 psi)	conventiona on) ng retracted, ydraulically r	al rear – standard; self-adjusting, inb eleased, oil cooled, <i>Width Over Tires</i> 2880 mm (113.4 ir Transmission Rese Axle Oil Without rear, each) Hydraulic Reserve Park Brake Oil (w p; closed-center, p ertip controls; hyd	oard sun-shaft mounte multi disc n.) rvoir With Vertical Filter Coolers (front and bir and Filter et disc) ressure-compensating s raulic-function enable/o	d, oil cool 23 L (24. 22 L (23 105.2 L (2 0.65 L (2 system	ed, single disc 3 qt.) qt.) 27.8 gal.) 2 oz.)	
Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 26 for complete tire adjustments) Michelin 23.5 R 25, 1 Star L-3 Serviceability Refill Capacities Fuel Tank (with lockable cap) Diesel Exhaust Fluid (DEF) Cooling System Engine Oil With Vertical Spin-On Filter Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,250 rpm System Relief Pressure (loader and steering)	26 deg. (13 deg. each directi Hydraulically actuated, sprin Automatic spring applied, hy <i>Tread Width</i> 2170 mm (85.4 in.) 351 L (92.6 gal.) 18.5 L (19.5 qt.) 48 L (51 qt.) 28 L (29.5 qt.) Variable-displacement, axial 310 L/m (82 gpm) 27 580 kPa (4,000 psi) 2-function valve; joystick co roller or auxiliary lever and 4	conventiona on) ng retracted, ydraulically r	al rear – standard; self-adjusting, inb eleased, oil cooled, <i>Width Over Tires</i> 2880 mm (113.4 ir Transmission Rese Axle Oil Without rear, each) Hydraulic Reserve Park Brake Oil (w p; closed-center, p ertip controls; hyd	oard sun-shaft mounte multi disc n.) rvoir With Vertical Filter Coolers (front and bir and Filter et disc) ressure-compensating s raulic-function enable/o	d, oil cool 23 L (24. 22 L (23 105.2 L (2 0.65 L (2 system	ed, single disc 3 qt.) qt.) 27.8 gal.) 2 oz.)	
Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 26 for complete tire adjustments) Michelin 23.5 R 25, 1 Star L-3 Serviceability Refill Capacities Fuel Tank (with lockable cap) Diesel Exhaust Fluid (DEF) Cooling System Engine Oil With Vertical Spin-On Filter Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,250 rpm System Relief Pressure (loader and steering) Loader Controls	26 deg. (13 deg. each directi Hydraulically actuated, sprin Automatic spring applied, hy <i>Tread Width</i> 2170 mm (85.4 in.) 351 L (92.6 gal.) 18.5 L (19.5 qt.) 48 L (51 qt.) 28 L (29.5 qt.) Variable-displacement, axial 310 L/m (82 gpm) 27 580 kPa (4,000 psi) 2-function valve; joystick co	conventiona on) ng retracted, ydraulically r	al rear – standard; self-adjusting, inb eleased, oil cooled, <i>Width Over Tires</i> 2880 mm (113.4 ir Transmission Rese Axle Oil Without rear, each) Hydraulic Reserve Park Brake Oil (w p; closed-center, p ertip controls; hyd	oard sun-shaft mounte multi disc n.) rvoir With Vertical Filter Coolers (front and bir and Filter et disc) ressure-compensating s raulic-function enable/o	d, oil cool 23 L (24. 22 L (23 105.2 L (2 0.65 L (2 system	ed, single disc 3 qt.) qt.) 27.8 gal.) 2 oz.)	
Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 26 for complete tire adjustments) Michelin 23.5 R 25, 1 Star L-3 Serviceability Refill Capacities Fuel Tank (with lockable cap) Diesel Exhaust Fluid (DEF) Cooling System Engine Oil With Vertical Spin-On Filter Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,250 rpm System Relief Pressure (loader and steering) Loader Controls Steering (conforms to ISO 5010)	26 deg. (13 deg. each directi Hydraulically actuated, sprin Automatic spring applied, hy <i>Tread Width</i> 2170 mm (85.4 in.) 351 L (92.6 gal.) 18.5 L (19.5 qt.) 48 L (51 qt.) 28 L (29.5 qt.) Variable-displacement, axial 310 L/m (82 gpm) 27 580 kPa (4,000 psi) 2-function valve; joystick co roller or auxiliary lever and 4	conventiona on) Ing retracted, ydraulically r introl or fing ith-function	al rear – standard; self-adjusting, inb eleased, oil cooled, <i>Width Over Tires</i> 2880 mm (113.4 ir Transmission Rese Axle Oil Without rear, each) Hydraulic Reserve Park Brake Oil (w p; closed-center, p ertip controls; hyd	oard sun-shaft mounte multi disc n.) rvoir With Vertical Filter Coolers (front and bir and Filter et disc) ressure-compensating s raulic-function enable/o	d, oil cool 23 L (24. 22 L (23 105.2 L (2 0.65 L (2 system	ed, single disc 3 qt.) qt.) 27.8 gal.) 2 oz.)	
Rear Axle Oscillation, Stop to Stop (with 23.5 R 25 tires) Brakes (conform to ISO 3450) Service Parking Tires/Wheels (see page 26 for complete tire adjustments) Michelin 23.5 R 25, 1 Star L-3 Serviceability Refill Capacities Fuel Tank (with lockable cap) Diesel Exhaust Fluid (DEF) Cooling System Engine Oil With Vertical Spin-On Filter Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,250 rpm System Relief Pressure (loader and steering) Loader Controls Steering (conforms to ISO 5010) Type	26 deg. (13 deg. each directi Hydraulically actuated, sprin Automatic spring applied, hy <i>Tread Width</i> 2170 mm (85.4 in.) 351 L (92.6 gal.) 18.5 L (19.5 qt.) 48 L (51 qt.) 28 L (29.5 qt.) Variable-displacement, axial 310 L/m (82 gpm) 27 580 kPa (4,000 psi) 2-function valve; joystick co roller or auxiliary lever and 4 Power, fully hydraulic	conventiona on) Ing retracted, ydraulically r introl or fing ith-function	al rear – standard; self-adjusting, inb eleased, oil cooled, <i>Width Over Tires</i> 2880 mm (113.4 ir Transmission Rese Axle Oil Without rear, each) Hydraulic Reserve Park Brake Oil (w p; closed-center, p ertip controls; hyd	oard sun-shaft mounte multi disc n.) rvoir With Vertical Filter Coolers (front and bir and Filter et disc) ressure-compensating s raulic-function enable/o	d, oil cool 23 L (24. 22 L (23 105.2 L (2 0.65 L (2 system	ed, single disc 3 qt.) qt.) 27.8 gal.) 2 oz.)	



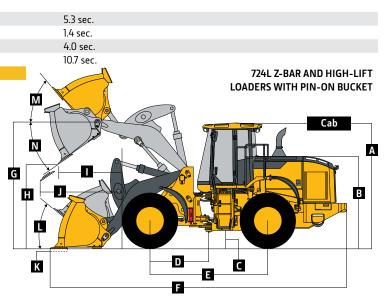
While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations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

Hydraulic System/Steering (continued)	724L Z-BAR
Hydraulic Cycle Times	
Raise	5.3 sec.
Dump	1.4 sec.
Lower (power down)	3.8 sec.
Total	10.5 sec.
Dimensions and Specifications With Pin-On Bucket	

	Z-Bar	Z-Bar	High-Lift	High-Lift
	3.6-m³ (4.75 cu. yd.) general-	3.8-m³ (5.0 cu. yd.) general-	3.4-m³ (4.5 cu. yd.) general-	3.6-m³ (4.75 cu. yd.) gen
Dimensions With Bucket	purpose with bolt-on edge	purpose with bolt-on edge	purpose with bolt-on edge	purpose with bolt-on
Height to Top of Cab	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)
B Hood Height	2.51 m (8 ft. 3 in.)	2.51 m (8 ft. 3 in.)	2.51 m (8 ft. 3 in.)	2.51 m (8 ft. 3 in.)
Ground Clearance	386 mm (15.2 in.)	386 mm (15.2 in.)	386 mm (15.2 in.)	386 mm (15.2 in.)
Length From Centerline to Front Axle	1.66 m (5 ft. 5 in.)	1.66 m (5 ft. 5 in.)	1.66 m (5 ft. 5 in.)	1.66 m (5 ft. 5 in.)
Wheelbase	3.31 m (10 ft. 10 in.)	3.31 m (10 ft. 10 in.)	3.31 m (10 ft. 10 in.)	3.31 m (10 ft. 10 in.)
Overall Length, Bucket on Ground	8.42 m (27 ft. 8 in.)	8.47 m (27 ft. 9 in.)	8.77 m (28 ft. 9 in.)	8.82 m (28 ft. 11 in.)
i Height to Hinge Pin, Fully Raised	4.16 m (13 ft. 8 in.)	4.16 m (13 ft. 8 in.)	4.50 m (14 ft. 9 in.)	4.50 m (14 ft. 9 in.)
I Dump Clearance, 45 deg., Full Height	2.87 m (9 ft. 5 in.)	2.84 m (9 ft. 4 in.)	3.25 m (10 ft. 8 in.)	3.21 m (10 ft. 7 in.)
Reach, 45-deg. Dump, Full Height	1.12 m (3 ft. 8 in.)	1.15 m (3 ft. 9 in.)	1.20 m (3 ft. 11 in.)	1.24 m (4 ft. 1 in.)
Reach, 45-deg. Dump, 2.13-m (7 ft. 0 in.) Clearance	1.68 m (5 ft. 6 in.)	1.70 m (5 ft. 7 in.)	2.04 m (6 ft. 8 in.)	2.06 m (6 ft. 9 in.)
Maximum Digging Depth	160 mm (6 in.)	160 mm (6 in.)	270 mm (10 in.)	270 mm (11 in.)
. Maximum Rollback at Ground Level	43 deg.	43 deg.	46 deg.	46 deg.
Maximum Rollback, Boom Fully Raised	60 deg.	60 deg.	60 deg.	60 deg.
Maximum Bucket Dump Angle, Fully Raised	47 deg.	47 deg.	45 deg.	45 deg.
Loader Clearance Circle, Bucket Carry Position	13.0 m (42 ft. 10 in.)	13.1 m (42 ft. 10 in.)	13.3 m (43 ft. 7 in.)	13.4 m (44 ft. 0 in.)
Specifications With Bucket				
Capacity, Heaped	3.6 m³ (4.76 cu. yd.)	3.8 m³ (5.00 cu. yd.)	3.4 m³ (4.50 cu. yd.)	3.6 m³ (4.76 cu. yd.)
Capacity, Struck	3.0 m ³ (3.90 cu. yd.)	3.2 m ³ (4.12 cu. yd.)	2.8 m ³ (3.68 cu. yd.)	3.0 m ³ (3.90 cu. yd.)
Bucket Weight With Bolt-On Cutting Edge	1919 kg (4,232 lb.)	1954 kg (4,308 lb.)	1880 kg (4,145 lb.)	1919 kg (4,232 lb.)
Bucket Width	3.04 m (10 ft. 0 in.)	3.04 m (10 ft. 0 in.)	3.04 m (10 ft. 0 in.)	3.04 m (10 ft. 0 in.)
Breakout Force	15 988 kg (35,248 lb.)	15 496 kg (34,163 lb.)	16 527 kg (36,436 lb.)	15,946 kg (35,155 lb.)
Tipping Load, Straight, No Tire Deflection	16 405 kg (36,167 lb.)	16 302 kg (35,940 lb.)	13 777 kg (30,373 lb.)	13 677 kg (30,153 lb.)
Tipping Load, Straight, With Tire Deflection	15 312 kg (33,757 lb.)	15 210 kg (33,532 lb.)	12 975 kg (28,605 lb.)	12 876 kg (28,387 lb.)
Tipping Load, 40-deg. Full Turn, No Tire Deflection	14 204 kg (31,315 lb.)	14 109 kg (31,106 lb.)	11 870 kg (26,168 lb.)	11 777 kg (25,964 lb.)
Tipping Load, 40-deg. Full Turn, With Tire Deflection	12 843 kg (28,314 lb.)	12 747 kg (28,102 lb.)	10 854 kg (23,929 lb.)	10 761 kg (23,724 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, No Tire Deflection (conforms to ISO 14397-1)*	7102 kg (15,657 lb.)	7055 kg (15,553 lb.)	5935 kg (13,084 lb.)	5889 kg (12,982 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, With Tire Deflection (conforms to ISO 14397-1)*	6422 kg (14,157 lb.)	6374 kg (14,051 lb.)	5427 kg (11,964 lb.)	5381 kg (11,862 lb.)
Operating Weight	19 825 kg (43,707 lb.)	19 859 kg (43,783 lb.)	19 945 kg (43,971 lb.)	19 984 kg (44,058 lb.
Loader operating information is based on machine cab, rear cast bumper/counterweight, transmission affected by changes in tires, ballast, and different *Rated operating capacity based on Deere attachme	n side-frame guards, bottom attachment, and assumes n	guards, standard tires, full fu	iel tank, and 79-kg (175 lb.) o	

SPECIFICATIONS

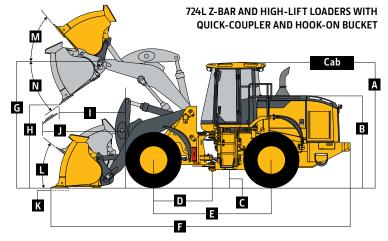
724L HIGH-LIFT



724L

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Dimensions and Specifications With Hi-Vis Coupler and Hook-On Bucket 724L Z-BAR / HIGH-LIFT

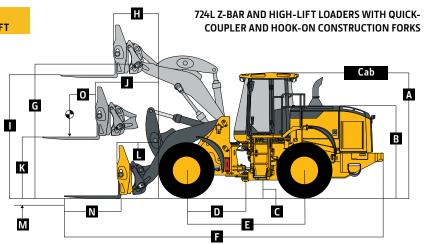


	Z-Bar	Z-Bar	High-Lift	High-Lift
	3.4-m³ (4.5 cu. yd.) general-	3.6-m³ (4.75 cu. yd.) general-	3.2-m ³ (4.25 cu. yd.) general-	3.4-m ³ (4.5 cu. yd.) general
Dimensions With Bucket	purpose with bolt-on edge	purpose with bolt-on edge	purpose with bolt-on edge	purpose with bolt-on edge
Height to Top of Cab	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)
Hood Height	2.51 m (8 ft. 3 in.)	2.51 m (8 ft. 3 in.)	2.51 m (8 ft. 3 in.)	2.51 m (8 ft. 3 in.)
Ground Clearance	386 mm (15.2 in.)	386 mm (15.2 in.)	386 mm (15.2 in.)	386 mm (15.2 in.)
Length From Centerline to Front Axle	1.66 m (5 ft. 5 in.)	1.66 m (5 ft. 5 in.)	1.66 m (5 ft. 5 in.)	1.66 m (5 ft. 5 in.)
Wheelbase	3.31 m (10 ft. 10 in.)	3.31 m (10 ft. 10 in.)	3.31 m (10 ft. 10 in.)	3.31 m (10 ft. 10 in.)
Overall Length, Bucket on Ground	8.46 m (27 ft. 9 in.)	8.51 m (27 ft. 11 in.)	8.82 m (28 ft. 11 in.)	8.86 m (29 ft. 1 in.)
Height to Hinge Pin, Fully Raised	4.16 m (13 ft. 8 in.)	4.16 m (13 ft. 8 in.)	4.50 m (14 ft. 9 in.)	4.50 m (14 ft. 9 in.)
Dump Clearance, 45 deg., Full Height	2.85 m (9 ft. 4 in.)	2.81 m (9 ft. 3 in.)	3.22 m (10 ft. 7 in.)	3.19 m (10 ft. 6 in.)
Reach, 45-deg. Dump, Full Height	1.15 m (3 ft. 9 in.)	1.18 m (3 ft. 10 in.)	1.24 m (4 ft. 1 in.)	1.27 m (4 ft. 2 in.)
Reach, 45-deg. Dump, 2.13-m (7 ft. 0 in.) Clearance	1.70 m (5 ft. 7 in.)	1.71 m (5 ft. 7 in.)	2.06 m (6 ft. 9 in.)	2.08 m (6 ft. 10 in.)
Maximum Digging Depth	150 mm (6 in.)	160 mm (6 in.)	270 mm (10 in.)	270 mm (11 in.)
Maximum Rollback at Ground Level	43 deg.	43 deg.	45 deg.	45 deg.
Maximum Rollback, Boom Fully Raised	60 deg.	60 deg.	60 deg.	60 deg.
Maximum Bucket Dump Angle, Fully Raised	47 deg.	47 deg.	45 deg.	45 deg.
oader Clearance Circle, Bucket Carry Position	13.1 m (42 ft. 10 in.)	13.1 m (42 ft. 11 in.)	13.5 m (44 ft. 4 in.)	13.5 m (44 ft. 4 in.)
Specifications With Bucket				
Capacity, Heaped	3.5 m³ (4.51 cu. yd.)	3.6 m³ (4.76 cu. yd.)	3.3 m³ (4.26 cu. yd.)	3.5 m³ (4.51 cu. yd.)
Capacity, Struck	2.8 m³ (3.70 cu. yd.)	3.0 m³ (3.91 cu. yd.)	2.7 m³ (3.48 cu. yd.)	2.8 m³ (3.70 cu. yd.)
Bucket Weight With Bolt-On Cutting Edge	1737 kg (3,829 lb.)	1774 kg (3,911 lb.)	1695 kg (3,737 lb.)	1737 kg (3,829 lb.)
Bucket Width	3.04 m (10 ft. 0 in.)	3.04 m (10 ft. 0 in.)	3.04 m (10 ft. 0 in.)	3.04 m (10 ft. 0 in.)
Breakout Force	15 478 kg (34,123 lb.)	14 977 kg (33,018 lb.)	15 900 kg (35,053 lb.)	15 437 kg (34,032 lb.)
Tipping Load, Straight, No Tire Deflection	15 644 kg (34,489 lb.)	15 537 kg (34,254 lb.)	13 089 kg (28,855 lb.)	13 009 kg (28,679 lb.)
Tipping Load, Straight, With Tire Deflection	14 589 kg (32,163 lb.)	14 484 kg (31,932 lb.)	12 312 kg (27,143 lb.)	12 231 kg (26,965 lb.)
Tipping Load, 40-deg. Full Turn, No Tire Deflection	13 493 kg (29,746 lb.)	13 395 kg (29,530 lb.)	11 221 kg (24,738 lb.)	11 146 kg (24,572 lb.)
Tipping Load, 40-deg. Full Turn, With Tire Deflection	12 177 kg (26,846 lb.)	12 081 kg (26,634 lb.)	10 236 kg (22,566 lb.)	10 158 kg (22,395 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, No Tire Deflection (conforms to ISO 14397-1)*	6746 kg (14,873 lb.)	6697 kg (14,765 lb.)	5610 kg (12,369 lb.)	5573 kg (12,286 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, With Tire Deflection (conforms to ISO 14397-1)*	6089 kg (13,423 lb.)	6041 kg (13,317 lb.)	5118 kg (11,283 lb.)	5079 kg (11,197 lb.)
Operating Weight	20 299 kg (44,753 lb.)	20 335 kg (44,830 lb.)	20 417 kg (45,012 lb.)	20 459 kg (45,103 lb.)

Loader operating information is based on machine with identified linkage and standard equipment, PowerTech PSS 6090 (EPA Final Tier 4/EU Stage V) engine, ROPS cab, rear cast bumper/counterweight, transmission side-frame guards, bottom guards, standard tires, full fuel tank, and 79-kg (175 lb.) operator. This information is affected by changes in tires, ballast, and different attachments, and assumes no tire deflection per the standard ISO 14397-1 section 5. *Rated operating capacity based on Deere attachments only.

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Dimensions and Specifications With Hi-Vis Coupler and Construction Forks 724L Z-BAR / HIGH-LIFT



		Z-Bar	Z-Bar	High-Lift	High-Lift
D	imensions With Forks	1.52-m (60 in.) tine length	1.83-m (72 in.) tine length	1.52-m (60 in.) tine length	1.83-m (72 in.) tine length
Α	Height to Top of Cab	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)
	Hood Height	2.51 m (8 ft. 3 in.)	2.51 m (8 ft. 3 in.)	2.51 m (8 ft. 3 in.)	2.51 m (8 ft. 3 in.)
	Ground Clearance	386 mm (15.2 in.)	386 mm (15.2 in.)	386 mm (15.2 in.)	386 mm (15.2 in.)
D	Length From Centerline to Front Axle	1.66 m (5 ft. 5 in.)	1.66 m (5 ft. 5 in.)	1.66 m (5 ft. 5 in.)	1.66 m (5 ft. 5 in.)
	Wheelbase	3.31 m (10 ft. 10 in.)	3.31 m (10 ft. 10 in.)	3.31 m (10 ft. 10 in.)	3.31 m (10 ft. 10 in.)
F	Overall Length, Forks on Ground	9.00 m (29 ft. 6 in.)	9.30 m (30 ft. 6 in.)	9.41 m (30 ft. 10 in.)	9.71 m (31 ft. 10 in.)
	Height to Hinge Pin, Fully Raised	4.16 m (13 ft. 8 in.)	4.16 m (13 ft. 8 in.)	4.50 m (14 ft. 9 in.)	4.50 m (14 ft. 9 in.)
н	Reach, Fully Raised	810 mm (32 in.)	810 mm (32 in.)	930 mm (3 ft. 1 in.)	930 mm (3 ft. 1 in.)
	Fork Height, Fully Raised	3.85 m (12 ft. 7 in.)	3.85 m (12 ft. 7 in.)	4.19 m (13 ft. 9 in.)	4.19 m (13 ft. 9 in.)
	Maximum Reach, Fork Level	1.72 m (5 ft. 8 in.)	1.72 m (5 ft. 8 in.)	2.05 m (6 ft. 9 in.)	2.05 m (6 ft. 9 in.)
К	Fork Height, Maximum Reach	1.74 m (5 ft. 9 in.)	1.74 m (5 ft. 9 in.)	1.74 m (5 ft. 9 in.)	1.74 m (5 ft. 9 in.)
L	Reach, Ground Level	1.15 m (3 ft. 9 in.)	1.15 m (3 ft. 9 in.)	1.56 m (5 ft. 1 in.)	1.56 m (5 ft. 1 in.)
М	Depth Below Ground	110 mm (4 in.)	110 mm (4 in.)	220 mm (9 in.)	220 mm (9 in.)
N	Tine Length	1.52 m (60 in.)	1.83 m (72 in.)	1.52 m (60 in.)	1.83 m (72 in.)
0	Load Position, 50% Tine Length	760 mm (30 in.)	910 mm (36 in.)	760 mm (30 in.)	910 mm (36 in.)
S	pecifications With Forks				
	Tipping Load, Straight, No Tire Deflection	10 998 kg (24,247 lb.)	10 441 kg (23,018 lb.)	9653 kg (21,280 lb.)	9194 kg (20,270 lb.)
	Tipping Load, Straight, With Tire Deflection	10 668 kg (23,519 lb.)	10 137 kg (22,348 lb.)	9372 kg (20,662 lb.)	8931 kg (19,689 lb.)
	Tipping Load, 40-deg. Full Turn, No Tire Deflection	9528 kg (21,006 lb.)	9036 kg (19,921 lb.)	8320 kg (18,342 lb.)	7915 kg (17,450 lb.)
	Tipping Load, 40-deg. Full Turn, With Tire Deflection	9090 kg (20,040 lb.)	8631 kg (19,028 lb.)	7950 kg (17,527 lb.)	7569 kg (16,687 lb.)
	Rated Operating Load, 50% Full-Turn Tipping Load, With Tire Deflection (conforms to ISO 14397-1 and SAE J1197)*	4545 kg (10,020 lb.)	4316 kg (9,514 lb.)	3975 kg (8,763 lb.)	3785 kg (8,343 lb.)
	Rated Operating Load, Rough Terrain, 60% Full-Turn Tipping Load, With Tire Deflection (conforms to EN474-3)*	5454 kg (12,024 lb.)	5179 kg (11,417 lb.)	4770 kg (10,516 lb.)	4541 kg (10,012 lb.)
	Rated Operating Load, Firm and Level Ground, 80% Full-Turn Tipping Load, With Tire Deflection (conforms to EN474-3)*	7272 kg (16,032 lb.)	6905 kg (15,222 lb.)	6360 kg (14,021 lb.)	6055 kg (13,349 lb.)
	Operating Weight	19 670 kg (43,366 lb.)	19 731 kg (43,499 lb.)	19 830 kg (43,717 lb.)	19 890 kg (43,849 lb.)
	Loader operating information is based				
	cab, rear cast bumper/counterweight, t affected by changes in tires, ballast, ar	ransmission side-frame guards,	bottom guards, standard tires,	full fuel tank, and 79-kg (175 lb.) operator. This information is
*F	Rated operating capacity based on Deer				



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Adjustments to Operating Weights 724L Z-BAR / HIGH-LIFT and Tipping Loads With Buckets

Adjustments to operating weights, tipping loads, and tires are based on Z-Bar machine with pin-on 3.6-m³ (4.75 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* TinningLoad V 4 4 (1) adust () kg (lb) as indicated

Add (+) or deduct (–) kg (lb.) as indicated		Lipping Load,	Lipping Load,					
for loaders with 3-piece rims	Operating Weight	Straight	40-deg. Full Turn	Tread Width	Width Over Tires	Vertical Height		
Michelin 23.5 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 23.5 R 25, 1 Star L-3	+101 kg (+223 lb.)	+77 kg (+170 lb.)	+68 kg (+150 lb.)	–3 mm (–0.1 in.)	+15 mm (+0.6 in.)	+39 mm (+1.5 in.)		
Titan 23.5-25, 20 PR L-3	–271 kg (–597 lb.)	–206 kg (–455 lb.)	–182 kg (–401 lb.)	–3 mm (–0.1 in.)	+33 mm (+1.3 in.)	+29 mm (+1.1 in.)		
Titan 725/70-25, 16-Ply L-4T (Logger Style) ^{†§©}	+359 kg (+792 lb.)	+284 kg (+627 lb.)	+251 kg (+554 lb.)	+31 mm (+1.2 in.)	+116 mm (+4.6 in.)	+78 mm (+3.1 in.)		
Michelin 750/65 R 25, 1 Star L-3T ^{†§®}	+715 kg (+1,577 lb.)	+556 kg (+1,225 lb.)	+491 kg (+1,081 lb.)	+31 mm (+1.2 in.)	+137 mm (+5.4 in.)	+42 mm (+1.7 in.)		
*May change based on vehicle configuration, weight, or tire-pressure adjustments.								

[†]Equipped with 5-piece heavy-duty rims.

[§]CaCl, not recommended.

^BRequires 9-deg. rear axle stops.

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Buck	et Sel	ection Gu	ides		724	L Z-B	AR / H	IGH-LIFT	
		700	800	900	100	0	1100	1200	1300
Z-Bar Linkage	Pin-On	3.63 m ³ (4.75 cu. yd.)							4.3 (5.71 cu.
		3.82 m ³ (5.0 cu. yd.)						4.60 r (6.01 cu. yd	
	Quick-Coupler	3.44 m ³ (4.5 cu. yd.)							4.1 (5.41 cu
		3.63 m ³ (4.75 cu. yd.)						4.36 m (5.71 cu. yd	
High-Lift Linkage	Pin-On	3.44 m ³ (4.5 cu. yd.)				(5.4	4.13 ı 40 cu. ya		
		3.63 m ³ (4.75 cu. yd.)			4.36 (5.71 cu. y				
	Quick-Coupler	3.2 m ³ (4.25 cu. yd.)			4.]4 4.]2 (5.41 cu.)	 '+ m³ yd.)			
		3.44 m³ (4.5 cu. yd.)	(5	4.36 n 4.36 n .71 cu. yd					
	-	1,180	1,348	1,517	1,68	36	1,854	2,023	2,191
LOOS	E MATE	RIALS		kg/m³	lb./cu. yo	d. I	LOOSE N	MATERIALS	
Cinder Clay au Clay, c Clay, d Clay, e Coal, a Coal, b	nd grave ompact, ry in lun xcavate anthracit bituminc	ashes, clinke I, dry	oose	288 673 1602 1746 1009 1282 865 801	486 1,134 2,700 2,943 1,701 2,160 1,458 1,350		Limestor Limestor Sand, da Sand, dry Sand, voi Sandstor Shale, br		is or crushed ter

Coal, antinacite, broken, loose	005	1,70	Janustone, quanteu	FICI
Coal, bituminous, moderately wet	801	1,350	Shale, broken crushed	1362
Earth, common loam, dry	1218	2,052	Slag, furnace granulated	1955
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
Gypsum	2275	3,834	Stone or gravel, 18.75-mm (0.75") size	1602

1762

2083

1314

2,970

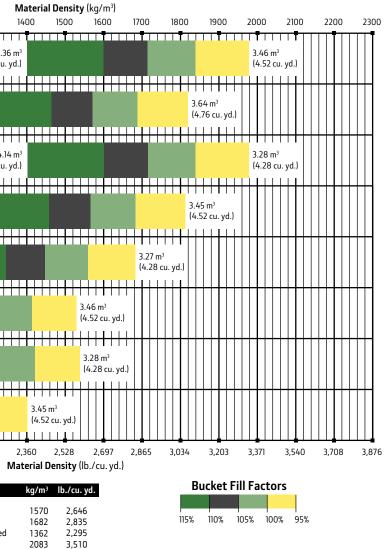
3,510 2,214

2,295

3,294

2,430

2,700



724L

Additional equipment

Axle and service-brake coolers

644L 724L Engine

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► ► Key: ● Sta	andard ▲ Option	al or special See your John Deere dealer for further informati
Engine	644L 724L	
Wet-sleeve cylinder liners	• •	Electrohydraulic (EH) controls with soft stops and adjustable settin
Automatic glow plugs for cold start	• •	In-cab adjustable automatic return-to-dig bucket positioner
Programmable auto-idle and auto shutdown	• •	In-cab adjustable automatic boom-height kickout/return to carry
Selected idle adjustment from 900–1,250 rpm	• •	Reservoir with sight gauge and fill strainer
Starter excessive-cranking protection	• •	Hydraulic diagnostic ports
Automatic engine cool-down timer	• •	4,000-hour in-tank filter
Automatic derating for exceeded system temperatures	• •	2 function — joystick with F-N-R
Serpentine drive belt for automatic tensioner		2 function – 2-lever fingertip controls and steering column F-N-R
Electrical fuel-priming pump		3 function — joystick with F-N-R and integrated 3rd-function roller
Dual-stage fuel filter and water separator		3 function – 3-lever fingertip controls and steering column F-N-R
500-hour vertical spin-on oil filter		4 function – joystick with F-N-R and integrated 3rd/4th-function roll
Engine-compartment light	• •	Programmable multifunction buttons (2)
Chrome exhaust stack	• •	Adjustable and continuous hydraulic-flow settings
Automatic ether starting aid (recommended for cold starts below	• •	Programmable attachment settings
–12 deg. C [10 deg. F])	A •	Ride control, automatic with monitor-adjustable speed settings
Engine-block heater (recommended for cold starts below –23 deg. C		Hydraulic control system for quick-coupler locking pins
[–10 deg. F])		Hydrau [™] XR cold-temperature hydraulic fluid recommended below
Centrifugal engine air pre-cleaner		–25 deg. C (–13 deg. F)
Throttle lock		Steering Systems
Powertrain	• •	Conventional steering wheel with spinner knob
Clutch cutoff with 4 operator settings: Automatic, level ground, small slope, or steep slope		Joystick steering (including conventional steering column) with gearshift, F-N-R, and horn
Programmable maximum high gear		Secondary steering
Clutch calibration engaged from monitor		Electrical
2,000-hour vertical spin-on transmission filter	• •	Solid-state electrical power-distribution system
Transmission fill tube and sight gauge	• •	Lockable master electrical-disconnect switch
Transmission diagnostic ports	• •	Battery-terminal safety covers
4-speed transmission with non-lockup torque converter	• •	By-pass start safety cover at starter
5-speed transmission with lockup torque converter	• •	Remote jump-start access in battery box
Hybrid-electric transmission system	• •	Pre-wired for beacon/strobe light
Front locking differential	• •	Lights: Halogen driving lights with guards (2) / Front (4), rear cab (
Rear locking differential		and rear grille (2) work lights / LED front turn signals and flashers /
Brake retractors and adjusters		LED stop- and taillights
Automatic differential lock		Premium LED light package (all exterior lights are heavy-duty LED)
Axle oil temperature sensing	• •	Programmable courtesy lights
Wheel-spin control (not available with hybrid-electric transmission	• •	Horn, electric
system)	• •	Reverse warning alarm
Quad-Cool [™] Cooling System	• •	Multifunction/multi-language 178-mm (7 in.) LCD color monitor
Heavy-duty, trash-resistant radiator and high-ambient cooling package		includes: Digital instruments — Analog display (hydraulic oil tempe
2-side access to all coolers		ature, engine coolant temperature, transmission oil temperature, a
solated from engine compartment		engine oil pressure) / Digital display (engine rpm, transmission gea
Engine radiator		direction indicator, hour meter, fuel level, diesel exhaust fluid (DEF
ntegral engine oil cooler		level, speedometer, odometer, and average fuel consumption)
Hydraulic oil cooler (oil to air)		Multifunction/multi-language 127-mm (5 in.) LCD color monitor
Transmission oil cooler (oil to air)		includes: Digital instruments — Analog display (hydraulic oil temperature and a second temperature transmission oil temperature and temperature an
Charge air cooler (air to air)		ature, engine coolant temperature, transmission oil temperature, a
Fuel cooler		engine oil pressure) / Digital display (engine rpm, transmission gea direction indicator, hour meter, fuel level, DEF level, speedometer,
Coolant recovery tank		odometer, and average fuel consumption)
Antifreeze, –37 deg. C (–34 deg. F)		Integrated cycle counter with 5 categories
Cool-on-demand, hydraulically driven, swing-out fan		Indicator lights: Standard and selected options / Amber caution ar
Enclosed fan safety guard		red stop
Automatic reversing fan drive	• •	Operator-warning messages
Ayle and service brake seclers		operate. Marining messages

Additional equipment (cont.)

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

644L	724L	Electrical (continued)
•	•	Built-in diagnostics: Diagnostic-code details / Sensor values /
		Calibrations / Individual circuit tester
		Electrical corrosion-prevention package
•	•	Standard AM/FM/Weather-Band (WB) radio with remote auxiliary por
		Premium AM/FM/WB radio with Bluetooth®, remote auxiliary port,
•	•	and remote USB port (premium cab only)
•	-	24- to 12-volt, 8-amp converter and cab power ports (3)
		24- to 12-volt, 15- or 30-amp converter and cab power ports (3)
•	•	Operator's Station Standard cab with air conditioning/heater (ROPS/FOPS Level 1,
•	•	isolation mounted)
		Premium cab with air conditioning/heater (ROPS/FOPS Level 1,
_	-	isolation mounted)
		Automatic temperature control (premium cab only)
•	•	Rear window defrost vent
•	٠	Keyless start with multiple security modes
•	•	Sealed-switch module with function indicators
٠	٠	Seat with backrest extension, deep foam, fabric cover, and adjustable
		air suspension
		Premium seat with high-wide back- and headrest extension, heated
		and ventilated, leather/fabric cover, and adjustable heavy-duty air
		suspension
•	•	Hydraulic controls integrated to seat
•	•	High-visibility, bright-orange seat belt, 76 mm (3 in.), with retractor
		Seat-belt minder monitoring with JDLink [™] and seat-belt indicator
•	•	beacon
•	•	Cup holder and cup/Thermos® holder with retaining strap
•		Coat hook
•	•	
•	•	LED dome and reading light Rubber floor mat
		Dual-tilt steering column
•	•	Operator's manual storage compartment
		Outside (2) and inside (1) rearview mirrors
		Heated outside mirrors with convex lens
	•	In-cab adjustable heated outside mirrors with convex lens (premium
-	-	cab only)
•	•	Left-side operator-station access
•	٠	Slip-resistant steps and ergonomic handholds
•	•	Pull-down front sun visor
٠	٠	Front and rear intermittent windshield wipers and washers
		Powered cab air pre-cleaner
		Beacon bracket only
		Beacon bracket with strobe beacon
•	٠	Rearview camera
		Rearview camera with radar object-detection system
		Dedicated 178-mm (7 in.) rear camera display
•	•	Payload scale ready
		Fire extinguisher

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No derating is required up to 3050-m (10,000 ft.) altitude. Specifications and design subject to change without notice. Specifications with the exception of bucket capacity are in accordance with all applicable ISO standards. Except where otherwise noted, these specifications are based on units with applicable linkage and standard equipment, ROPS cab, rear cast bumper/counterweight, transmission side-frame guards, bottom guards, standard tires, full fuel tank, and 79-kg (175 lb.) operator.

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

644L	724L	Loader Linkage
•	•	Z-Bar loader linkage (parallel lift)
		High-Lift Z-Bar loader linkage (parallel lift)
	_	Buckets and Attachments
		Full line of Deere pin-on buckets
		John Deere hydraulic coupler that accepts JRB-pattern attachments
		Hi-Vis hydraulic coupler that accepts Euro-pattern attachments (ISO)
		Full line of Deere hook-on buckets and forks
		Overall Vehicle
•	•	JDLink wireless communication system (available in specific countries;
		see your dealer for details)
•	•	NeverGrease [™] rear-axle oscillation
٠	•	Front and rear tie-downs
•	•	Rear cast bumper/counterweight with rear hitch and locking pin
•	•	Articulation locking bar
•	•	Loader boom service locking bar
•	•	40-deg. steering articulation to each side with rubber-cushion stops on frame
•	•	Vandal protection with lockable engine enclosures, right counterweight
		storage, and filler access for radiator/fuel/DEF/hydraulic transmission
•	•	Left-side service steps and handholds
		Right-side service steps and handrails (not available with hybrid-
		electric transmission system) Left-side close-mounted steps (not available with hybrid-electric
		transmission system)
•	•	Storage compartment
•	•	Fuel-tank fill strainer
•	•	Heavy-duty fuel-tank guard
•	•	DEF and ground-level fueling
	•	Same-side ground-level daily servicing
•	•	23.5R25 tires on 3-piece rims
		23.5R25 tires on 5-piece rims
		Tire-pressure monitoring system
		Waste handler (Z-Bar and High-Lift)
•	•	Environmental drains and sample ports for engine, transmission,
		hydraulic oils, and engine coolant
		Quick fluid service (engine, transmission, hydraulic oils, and engine coolant)
		Fast-fuel system
•	•	Fenders, front narrow
		Fenders, front full width
		Fenders, front and rear full width
		Fenders, front and rear full width with mud flaps
		Less wheels and tires with 9-deg. axle stops
		Rims less tires
		Transmission side-frame and bottom guards
		Lift eyes
		License-plate bracket and light
		Special guarding for waste applications

While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications



