





ELEVATE YOUR EXPECTATIONS

ABOVE AND BEYOND MEET THE P-TIER WHEEL LOADERS

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



Take control

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

The bucket list

A wide selection of enhanced production buckets with integrated spill guards, curved side cutters, and impressive rollback delivers elevated bucket-fill performance and material retention compared to earlier offerings.

At the forefront

Featuring bucket and linkage designs that improve load leveling, material retention, and visibility, these loaders yield more productivity and performance than previous models.

Remote diagnostics and support

To maximize uptime and lower costs, JDLink[™] connectivity provides machine location, utilization data, and alerts to help you maximize productivity and efficiency. JDLink also enables John Deere Connected Support[™]. Dealers use Expert Alerts based on data from thousands of connected machines 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.*

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

It's easy to see

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 color LCD screen.

On your side

All daily service points including fuel refill are conveniently grouped at ground level on the left side of the machine for easy access. Routing of electrical wire harnesses and hydraulic hoses has been streamlined.



644 P

J.

4



88

DEERE

1.8



GET AHEAD MOVING FORWARD.

Designed to elevate your productivity, the 644 P-Tier Wheel Loader helps you put your best foot forward.



Have a seat

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



Smooth operator

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



Near-parallel lift

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

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



Clear advantage

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



Step it up

Quad-Cool[™] places the radiator, air-conditioner condenser, intercooler, and hydraulic, transmission, and axle coolers in a uni ue bo ed configuration t at i olated from engine eat boo ting efficiency and durability.



644 P-TIER WHEEL LOADER SPECIFICATIONS



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

Engine	644 P-TIER Z-BAR / HIGH-LI			(150.02/0)	1100 11	(0)) (1) (0)	
Manufacturer and Model	John Deere PowerTech [™] PSS 6068 Gross Peak Torque (IS			(ISO 9249)		(811 lbft.) at 1,400 rpm	
Non-Road Emission Standard	EPA Final Tier 4/EU Stage V			58%			
Cylinders	6		Fuel System (electronically controlled)			ssure common rail	
Valves Per Cylinder	4		Lubrication			spin-on filter and integral coole	
Displacement	6.8 L (415 cu. in.)		Aspiration			rbocharged, charge air cooled	
Net Peak Power (ISO 9249)	186 kW (249 hp) at 1,800 rpm				Under-ho	ood, dual-element dry type,	
Gross Peak Power (ISO 9249)	194 kW (260 hp) at 1,800 rpm				restrictio	n indicator in cab monitor	
Net Peak Torque (ISO 9249)	1061 Nm (783 lbft.) at 1,400 r	rpm			for servic	e	
Cooling							
Fan Drive	Hydraulically driven, proportion	onally cont	rolled, fan aft of coo	lers			
Electrical		,					
Electrical System	24 volt with 100-amp alternator (140-amp alternator optional)						
Batteries (2 – 12 volt)	950 CCA (each)	o. (o u	ip accorder optiona	.,			
Transmission System							
Туре	Countershaft-type PowerShif	+ [™]					
Torque Converter	Single stage, single phase	L					
•	N/A						
Motor/Generator							
Inverter	N/A						
Shift Control	Electronically modulated, ada						
Operator Interface	Steering-column or joystick-m						
Shift Modes	Manual/auto (1st–D or 2nd–D); Quick-Sł	hift button with 2 sel	ectable modes: kick-	down or kic	k-up/down; and 4 clutch	
	cutoff settings						
	Standard 5-Speed With Lockup	p Torque C	onverter	Optional 4-Speed			
Maximum Travel Speeds							
(with 23.5 R 25 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 (7.8 mph)	
Range 3	20.5 km/h (12.7 mph)		n (16.2 mph)	22.9 km/h (14.2 mp	h)	24.0 km/h (14.9 mph)	
Range 4	24.7 km/h (15.3 mph)	N/A	· (35.2 km/h (21.9 mpł		N/A	
Range 5	40.0 km/h (24.9 mph)	N/A		N/A	1)	N/A	
Axles/Brakes	40.0 km/m (24.5 mpn)	N/A		N/A			
Final Drives	Linear data internal measures of						
	Heavy-duty inboard-mounted						
Differentials	Hydraulic locking front with co		ai rear — standard; du	al locking front and r	ear – optio	inai	
Rear Axle Oscillation, Stop to Stop	26 deg. (13 deg. each directior	ר)					
(with 23.5 R 25 tires)							
Brakes (conform to ISO 3450)							
Service	Hydraulically actuated, inboar						
Parking	Automatic spring applied, hyd	raulically r	eleased, driveline mo	unted, oil cooled, mu	ılti disc		
Tires/Wheels (see page 9 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.)				
Serviceability							
Refill Capacities			Refill Capacities (co	ontinued)			
Fuel Tank (with lockable cap)			Transmission Reservoir With Vertical		23 L (24.3 qt.)		
Diesel Exhaust Fluid (DEF)			Filter				
Cooling System				xle Oil (front and rear, each)		22 L (23 qt.)	
Inverter			Hydraulic Reservoir and Filter		105.2 L (2		
	N/A		, , , , , , , , , , , , , , , , , , ,				
Engine Oil With Vertical Spin-On Filter	27 L (28.5 qt.)		Park Brake Oil (wet	uisc)	0.65 L (22	2 02.)	
Hydraulic System/Steering			1 I ·				
Pump (loader and steering)	Variable-displacement, axial-p	Diston pum	ip; closed-center, pre	ssure-compensating	system		
Maximum Rated Flow at 6895 kPa	310 L/m (82 gpm)						
(1,000 psi) and 2,250 rpm							
System Relief Pressure (loader and	25 166 kPa (3,650 psi)						
steering)		trol or fing	ertip controls; hydrau	ulic-function enable/	disable; opt	tional 3rd- and 4th-function	
3	2-function valve; joystick cont	cror or ming					
steering) Loader Controls	2-function valve; joystick cont valve with auxiliary lever						
Loader Controls							
Loader Controls		troi or ning					
Loader Controls Steering (conforms to ISO 5010) Type	valve with auxiliary lever Power, fully hydraulic	-					
Loader Controls Steering (conforms to ISO 5010)	valve with auxiliary lever	-					

644 P-TIER WHEEL LOADER SPECIFICATIONS

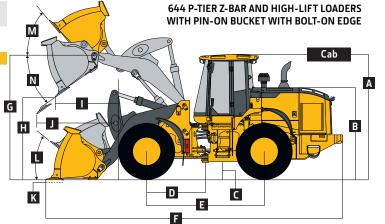




While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations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

Hydraulic System/Steering (continued)	644 P-TIER Z-BAI	644 P-TIER Z-BAR / HIGH-LIFT		
Hydraulic Cycle Times	Z-Bar	High-Lift		
Raise	5.3 sec.	5.3 sec.		
Dump	1.4 sec.	1.4 sec.		
Lower (power down)	3.8 sec.	4.0 sec.		
Total	10.5 sec.	10.7 sec.		
c et Canacit Ra e				

Bucket Type								
Pin-On						3.2-3	8.6 m³	
						(4.25	–4.75 cu	ı. yd.)
Coupler						3.1–3	.6 m³	-
						(4.0-	4.75 cu.	yd.)
i e si sa	pecificati	s	it	i.	c et	it	lt	е



	Z-Bar	Z-Bar	High-Lift
Dimensions With Bucket With			5
Bolt-On Edge (illustration above right)	3.2-m ³ (4.25 cu. yd.) general-purpose	3.4-m³ (4.5 cu. yd.) general-purpose	3.2-m ³ (4.25 cu. yd.) general-purpose
A 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.)
B Hood Height	2.51 m (8 ft. 3 in.)	2.51 m (8 ft. 3 in.)	2.51 m (8 ft. 3 in.)
C Ground Clearance	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.)
E Wheelbase	3.31 m (10 ft. 10 in.)	3.31 m (10 ft. 10 in.)	3.31 m (10 ft. 10 in.)
F 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.)
G 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.)
H 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.)
I 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.)
J Reach, 45-deg. Dump, 2.13-m (7 ft. 0 in.)	1.61 m (5 ft. 3 in.)	1.62 m (5 ft. 4 in.)	2.02 m (6 ft. 8 in.)
Clearance			
K Maximum Digging Depth	125 mm (5 in.)	129 mm (5 in.)	262 mm (10 in.)
L Maximum Rollback at Ground Level	45 deg.	45 deg.	45 deg.
M Maximum Rollback, Boom Fully Raised	59 deg.	59 deg.	60 deg.
N Maximum Bucket Dump Angle, Fully Raised	48 deg.	48 deg.	45 deg.
Loader Clearance Circle, Bucket Carry Position	13.0 m (42 ft. 8 in.)	13.0 m (42 ft. 9 in.)	13.3 m (43 ft. 9 in.)
pecificati s it c et it lt e			
Capacity, Heaped	3.3 m³ (4.25 cu. yd.)	3.4 m³ (4.50 cu. yd.)	3.3 m³ (4.26 cu. yd.)
Capacity, Struck	2.7 m³ (3.47 cu. yd.)	2.8 m³ (3.68 cu. yd.)	2.7 m³ (3.48 cu. yd.)
Bucket Weight With Bolt-On Cutting Edge	1844 kg (4,066 lb.)	1880 kg (4,145 lb.)	1695 kg (3,737 lb.)
Bucket Width	3.04 m (10 ft. 0 in.)	3.04 m (10 ft. 0 in.)	3.04 m (10 ft. 0 in.)
Breakout Force	15 574 kg (34,334 lb.)	15 002 kg (33,074 lb.)	15 568 kg (34,321 lb.)
ipping oad traight o ire eflection	15 005 kg (33,079 lb.)	14 891 kg (32,829 lb.)	12 413 kg (27,367 lb.)
ipping oad traight ith ire eflection	14 067 kg (31,012 lb.)	13 956 kg (30,768 lb.)	11 718 kg (25,834 lb.)
ipping oad 4 -deg. Full urn o ire eflection	12 987 kg (28,631 lb.)	12 882 kg (28,401 lb.)	10 677 kg (23,540 lb.)
ipping oad 4 -deg. Full urn ith ire eflection	11 826 kg (26,072 lb.)	11 721 kg (25,840 lb.)	9795 kg (21,594 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load,	6493 kg (14,315 lb.)	6441 kg (14,200 lb.)	5339 kg (11,770 lb.)
o ire eflection conforms to 43 -			
Rated Operating Load, 50% Full-Turn Tipping Load, ith ire eflection conforms to 43 -	5913 kg (13,036 lb.)	5861 kg (12,920 lb.)	4898 kg (10,797 lb.)
Operating Weight	18 709 kg (41,246 lb.)	18 744 kg (41,324 lb.)	18 894 kg (41,653 lb.)
Loader operating information is based on machine	with identified linkage and standard ed	quipment, PowerTech PSS 6068 (EPA F	inal Tier 4/EU Stage V) engine, ROPS
cab, rear cast bumper/counterweight, transmission			

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.

644 P-TIER

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.

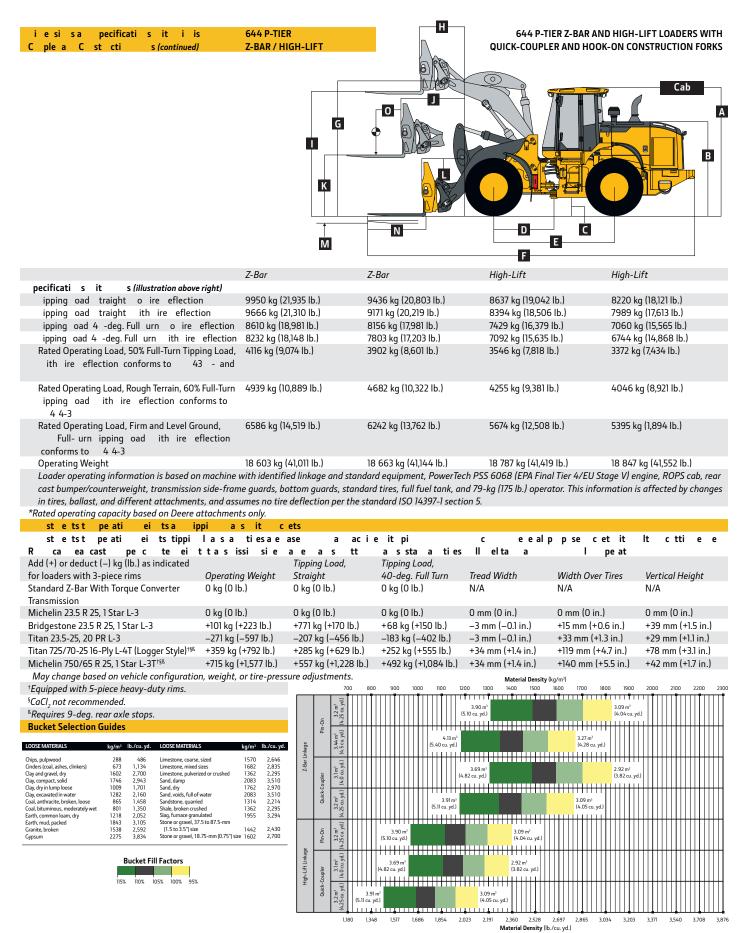
i e si sa pecificati s it i is C ple a c et it lt e	644 P-TIER Z-BAR / HIGH-LIFT			GH-LIFT LOADERS WITH QUIC N BUCKET WITH BOLT-ON EDC
	Z-Bar	Z-Bar	High-Lift	High-Lift
Dimensions With Bucket With	2-ваг 3.1-т³ (4.0 си. уd.)	2-ваг 3.2-т ³ (4.25 си.уd.)	3.1-m ³ (4.0 cu. yd.)	3.2-m ³ (4.25 cu. yd.)
Bolt-On Edge (illustration above right)	general-purpose	general-purpose	general-purpose	general-purpose
A 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	8.38 m (27 ft. 6 in.)	8.43 m (27 ft. 8 in.)	8.77 m (28 ft. 9 in.)	8.82 m (28 ft. 11 in.)
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.)	4.50 m (14 ft. 9 in.)
Dump Clearance, 45 deg., Full Height	2.84 m (9 ft. 4 in.)	2.81 m (9 ft. 2 in.)	3.25 m (10 ft. 8 in.)	3.22 m (10 ft. 7 in.)
Reach, 45-deg. Dump, Full Height	1.10 m (3 ft. 7 in.)	1.13 m (3 ft. 8 in.)	1.21 m (4 ft. 0 in.)	1.24 m (4 ft. 1 in.)
Reach, 45-deg. Dump, 2.13-m (7 ft. 0 in.) Clearance	1.63 m (5 ft. 4 in.)	1.64 m (5 ft. 5 in.)	2.05 m (6 ft. 9 in.)	2.06 m (6 ft. 9 in.)
Maximum Digging Depth	125 mm (5 in.)	129 mm (5 in.)	262 mm (10 in.)	266 mm (10 in.)
Maximum Bigging Depth Maximum Rollback at Ground Level	45 deg.	45 deg.	45 deg.	45 deg.
Maximum Rollback, Boom Fully Raised	59 deg.	59 deg.	60 deg.	60 deg.
Maximum Bucket Dump Angle, Fully Raised	48 deg.	48 deg.	45 deg.	45 deg.
Loader Clearance Circle, Bucket Carry Position	13.0 m (42 ft. 9 in.)	13.0 m (42 ft. 9 in.)	13.5 m (44 ft. 3 in.)	13.5 m (44 ft. 4 in.)
pecificati s it c et it lt e	1510 111 (12 1 (1 5 111)			
Capacity, Heaped	3.30 m³ (4.25 cu. yd.)	3.40 m³ (4.50 cu. yd.)	3.07 m³ (4.02 cu. yd.)	3.26 m³ (4.26 cu. yd.)
Capacity, Struck	2.70 m ³ (3.47 cu. yd.)	2.80 m ³ (3.68 cu. yd.)	2.51 m ³ (3.28 cu. yd.)	2.66 m ³ (3.48 cu. yd.)
Bucket Weight With Bolt-On Cutting Edge	1844 kg (4,066 lb.)	1880 kg (4,145 lb.)	1639 kg (3,613 lb.)	1695 kg (3,737 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	14 907 kg (32,865 lb.)	14 419 kg (31,789 lb.)	13 987 kg (30,385 lb.)	13 569 kg (29,914 lb.)
ipping oad traight o ire eflection	14 246 kg (31,407 lb.)	14 141 kg (31,174 lb.)	11 431 kg (25,202 lb.)	11 381 kg (25,091 lb.)
ipping oad traight ith ire eflection	13 347 kg (29,425 lb.)	13 242 kg (29,194 lb.)	10 770 kg (23,744 lb.)	10 719 kg (23,631 lb.)
ipping oad 4 -deq. Full urn o ire effection	12 279 kg (27,071 lb.)	12 181 kg (26,854 lb.)	9764 kg (21,526 lb.)	9718 kg (21,426 lb.)
ipping oad 4 -deg. Full urn ith ire eflection	J · · ·	11 061 kg (24,385 lb.)	8919 kg (19,663 lb.)	8871 kg (19,557 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, o ire eflection conforms to 43 -		6090 kg (13,427 lb.)	4882 kg (10,763 lb.)	4859 kg (10,713 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, ith ire eflection conforms to 43 -	5582 kg (12,305 lb.)	5531 kg (12,193 lb.)	4460 kg (9,832 lb.)	4436 kg (9,779 lb.)
Operating Weight	19 134 kg (42,182 lb.)	19 190 kg (42,307 lb.)	19 449 kg (42,877 lb.)	19 465 kg (42,913 lb.)
Loader operating information is based on machine cast bumper/counterweight, transmission side-fram in tires, ballast, and different attachments, and ass	e guards, bottom guards	standard tires, full fuel tank, and	d 79-kg (175 lb.) operator. This ir	

*Rated operating capacity based on Deere attachments only.

i e si sa pecificati s it i isC ple a	C st cti s			
	Z-Bar	Z-Bar	High-Lift	High-Lift
Dimensions With Forks (illustration at top of next page)	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
A Height to Top of Cab	3.45 m (11 ft. 4 in.)			
B Hood Height	2.51 m (8 ft. 3 in.)			
C Ground Clearance	386 mm (15.2 in.)			
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, Forks on Ground	9.01 m (29 ft. 7 in.)	9.32 m (30 ft. 7 in.)	9.41 m (30 ft. 10 in.)	9.71 m (31 ft. 10 in.)
G 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.)	4.50 m (14 ft. 9 in.)
H Reach, Fully Raised	820 mm (32 in.)	820 mm (32 in.)	930 mm (3 ft. 1 in.)	930 mm (3 ft. 1 in.)
I Fork Height, Fully Raised	3.78 m (12 ft. 5 in.)	3.78 m (12 ft. 5 in.)	4.19 m (13 ft. 9 in.)	4.19 m (13 ft. 9 in.)
J Maximum Reach, Fork Level	1.70 m (5 ft. 7 in.)	1.70 m (5 ft. 7 in.)	2.05 m (6 ft. 9 in.)	2.05 m (6 ft. 9 in.)
K Fork Height, Maximum Reach	1.70 m (5 ft. 7 in.)	1.70 m (5 ft. 7 in.)	1.74 m (5 ft. 9 in.)	1.74 m (5 ft. 9 in.)
L Reach, Ground Level	1.16 m (3 ft. 10 in.)	1.16 m (3 ft. 10 in.)	1.56 m (5 ft. 1 in.)	1.56 m (5 ft. 1 in.)
M Depth Below Ground	90 mm (3 in.)	90 mm (3 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.)

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.

644 P-TIER



Additional equipment

644 P Engine

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

e t ai

- Clutch cutoff with 4 operator settings: Automatic, level ground, small slope, or steep slope
- Programmable maximum high gear
- Clutch calibration engaged from monitor
- 2,000-hour vertical spin-on transmission filter
- ransmission fill tube and sight gauge
- Transmission diagnostic ports
- ▲ 4-speed transmission with non-lockup torque converter
- 5-speed transmission with lockup torque converter
- Front locking differential
- ▲ Rear locking differential
- Brake retractors and adjusters
- Automatic differential lock
- Axle oil temperature sensing
- Wheel-spin control

Quad-Cool[™] Cooling System

 Heavy-duty, trash-resistant radiator and high-ambient cooling package Key: ● Standard ▲ Optional or special

644 P Quad-Cool Cooling System (continued)

- 2-side access to all coolers
- Isolated from engine compartment
- Engine radiator
- Engine oil cooler
- Hydraulic oil cooler (oil to air)
- Transmission oil cooler (oil to air)
- Charge air cooler (air to air)
- Fuel cooler
- Coolant recovery tank
- Antifreeze, –37 deg. C (–34 deg. F)
- Cool-on-demand, hydraulically driven, swing-out fan
- Enclosed fan safety guard
- Automatic reversing fan drive
- Axle and service-brake coolers
 Hydraulics
- Electrohydraulic (EH) controls with soft stops and adjustable settings
- In-cab adjustable automatic return-todig bucket positioner
- In-cab adjustable automatic boom-height kickout/return to carry
- eservoir with sight gauge and fill strainer
- Hydraulic diagnostic ports
- 4 -hour in-tank filter
- 2 function joystick with F-N-R
- ▲ 2 function 2-lever fingertip controls and steering column F-N-R
- ▲ 3 function joystick with F-N-R and integrated 3rd-function roller
- ▲ 3 function 3-lever fingertip controls and steering column F-N-R
- ▲ 4 function joystick with F-N-R and integrated 3rd/4th-function rollers
- Programmable multifunction buttons (2)
- djustable and continuous hydraulic-flow settings
- Programmable attachment settings
- Ride control, automatic with monitoradjustable speed settings
- Hydraulic control system for quick-coupler locking pins
- ▲ Hydrau[™] XR cold-temperature hydraulic fluid recommended below 2 deg. (-13 deg. F)

See your John Deere dealer for further information.

644 P Steering Systems

- Conventional steering wheel with spinner knob
- ▲ Joystick steering (including conventional steering column) with gearshift, F-N-R, and horn
- Secondary steering

Electrical

- Solid-state electrical power-distribution system
- Lockable master electrical-disconnect switch
- Battery-terminal safety covers
- By-pass start safety cover at starter
- Remote jump-start access in battery box
- Pre-wired for beacon/strobe light
- Lights: Halogen driving lights with guards
 (2) / Front (4), rear cab (2), and rear grille
 (2) work lights / LED front turn signals and flashers / stop- and taillights
- Premium LED light package (all exterior lights are heavy-duty LED)
- Programmable courtesy lights
- Horn, electric
- Reverse warning alarm
- Multifunction/multi-language 178-mm (7 in.) LCD color monitor includes: Digital instruments — Analog display (hydraulic oil temperature, engine coolant temperature, transmission oil temperature, and engine oil pressure) / Digital display (engine rpm, transmission gear/direction indicator, hour meter, fuel level, diesel e haust fluid F level speedometer odometer, and average fuel consumption)
- Multifunction/multi-language 127-mm (5 in.) LCD color monitor includes: Digital instruments — Analog display (hydraulic oil temperature, engine coolant temperature, transmission oil temperature, and engine oil pressure) / Digital display (engine rpm, transmission gear/direction indicator, hour meter, fuel level, DEF level, speedometer, odometer, and average fuel consumption)
 - Integrated cycle counter with 5 categories

ile e e ali ati pict es a escipti sa ep i e s eill stati sa te t a i cl ep ct pti s a accessies i all e i sa i s ec tiesp ctsa accessies a e i e ificati s a iti st e s ec plia ce i ttel cale lati s t sec ties. Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan at test conditions per ISO 9249.

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

Additional equipment (cont.)

644 P Electrical (continued)

- Indicator lights: Standard and selected options / Amber caution and red stop
- Operator-warning messages
- Built-in diagnostics: Diagnostic-code details / Sensor values / Calibrations / Individual circuit tester
- Electrical corrosion-prevention package
- Standard AM/FM/Weather-Band (WB) radio with remote auxiliary port
- Premium AM/FM/WB radio with Bluetooth[®], remote auxiliary port, and remote USB port (premium cab only)
- 24- to 12-volt, 8-amp converter and cab power ports (3)
- ▲ 24- to 12-volt, 15- or 30-amp converter and cab power ports (3)

pe at s tati

- Standard cab with air conditioning/heater (ROPS/FOPS Level 1, isolation mounted)
- Premium cab with air conditioning/heater (ROPS/FOPS Level 1, isolation mounted)
- Automatic temperature control (premium cab only)
- Rear window defrost vent
- Keyless start with multiple security modes
- Sealed-switch module with function indicators
- Seat with backrest extension, deep foam, fabric cover, and adjustable air suspension
- Premium seat with high-wide backand headrest extension, heated and ventilated, leather/fabric cover, and adjustable heavy-duty air suspension
- Hydraulic controls integrated to seat
- High-visibility, bright-orange seat belt, 76 mm (3 in.), with retractor
- ▲ Seat-belt minder monitoring with JDLink[™] and seat-belt indicator beacon
- Cup holder and cup/Thermos[®] holder with retaining strap
- Lunch-box/cooler holder with tie-down brackets

ile e e al i

ati

pict es a

• Coat hook

Key: ● Standard ▲ Optional or special

644 P pe at s tati (continued)

- LED dome and reading light
- ubber floor mat
- Dual-tilt steering column
- Operator's manual storage compartment
- Outside (2) and inside (1) rearview mirrors
- ▲ Heated outside mirrors with convex lens
- In-cab adjustable heated outside mirrors with convex lens (premium cab only)
- Left-side operator-station access
- Fall-arrest system anchor points tested to 2268 kg (5,000 lb.) on front of cab
- Slip-resistant steps and ergonomic handholds
- Pull-down front sun visor
- Front and rear intermittent windshield wipers and washers
- Powered cab air pre-cleaner
- Beacon bracket only
- ▲ Beacon bracket with strobe beacon
- Rearview camera
- Rearview camera with radar objectdetection system
- Dedicated 178-mm (7 in.) rear camera display
- Payload scale ready
- ▲ Fire extinguisher

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, coupler buckets, and forks
- ▲ John Deere hydraulic coupler that accepts JRB-pattern attachments
- ▲ Hi-Vis hydraulic coupler that accepts Euro-pattern attachments (ISO)

e all e icle

escipti saep

- JDLink wireless communication system available in specific countries; see your dealer for details)
- NeverGrease[™] rear-axle oscillation

See your John Deere dealer for further information.

644 P e all e icle (continued)

- 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/ F/ hydraulic transmission
- Left-side service steps and handholds
- ▲ Right-side service steps and handrails
- ▲ Left-side close-mounted steps
- Storage compartment
- Fuel-tank fill strainer
- Heavy-duty fuel-tank guard
- round-level fuel and F fill
- 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
- ▲ uick 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 axle stops
- ▲ Rims less tires
- Transmission side-frame and bottom guards
- ▲ Special guarding for waste applications
- ▲ Lift eyes

ct pti s

▲ License-plate bracket and light

a access ies i all e i sa i s ec tiesp ctsa access ies a e i e ificati s a iti st es ec plia ce it tel cal e lati s t sec ties Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan at test conditions per ISO 9249. No derating is required up to 3050-m (10,000 ft.) altitude. Specifications and design subject to change without notice. Specifications with the exception of bucket capacity are in accordance with all applicable ISO standards. Except where otherwise noted, these specifications are based on a unit with applicable linkage and standard equipment, ROPS cab, rear cast bumper/counterweight, transmission side-frame guards, bottom guards, standard tires, full fuel tank, and 79-kq (175 lb.) operator.

ie s

eill stati sa tet aiclep



JohnDeere.com

