

Wheel Loader







LARGE AND IN CHARGE

READY TO DO THE HEAVY LIFTING.

Combining serious performance with fuel efficiency, customer-inspired components, and intuitive controls, our 824 P-tier provides the muscle operators need to work productively and comfortably. Enhancements include increased horsepower, an ergonomically reimagined cab, and simplified service points. With its rugged EPA Final Tier 4/EU Stage V-compliant John Deere PowerTech™ diesel, high-capacity heavy-duty axles, and a wealth of proven options, this large-scale wheel loader is built rock solid for the long haul.

Step up your game

With standard advantages such as an updated 9.0L engine and after-treatment, a fuel-efficient lockup torque converter, and a dedicated steering pump, the 824 P-tier can heap heavier and haul more.

Outsized comfort

Cab boasts three more inches of legroom than previous models. Standard premium heated/ventilated seat, updated HVAC system with automatic temperature control, and redesigned sealed-switch module are placed for ergonomic comfort and convenience. A 79-percent-wider door than on previous series models makes getting in and out easier.

Make the shift

Smooth-shifting transmission delivers impressive acceleration and cycle times. Design optimizes power and fuel efficiency during transport, roading, and ramp climbing.

It's easy to take control

Easier and more intuitive to operate than the controls on previous models, seat-mounted right-hand hydraulic controls feature two programmable multifunction buttons with electrohydraulic (EH) controls.

Time saver

Easier access to the engine oil dipstick cuts routine service time in half.

Precision Construction

This suite of construction technology delivers **Productivity Solutions** to help you get more done, more efficiently. In-base JDLink™ connectivity provides machine location, utilization data, and alerts to help you maximize productivity and efficiency. To maximize uptime and lower costs, 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 timeconsuming trip to the jobsite.*

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











YOU THOUGHT OF EVERYTHING

IT'S IN THE DETAILS.

Your best ideas have helped our large wheel loaders stand out on the jobsite and in the industry. These are just some of the purpose-built details that add up to push our 824 P-tier — and your operation — to the next level.



Heavy-duty durability

Large, high-capacity, heavy-duty axles with standard axle cooling and filtration increase durability in demanding conditions compared to previous models.



Reliable redesign

Routing of the electrical and hydraulic systems has been significantly simplified to minimize friction, improving reliability and easing maintenance.



Buckle up

A seat-belt minder sends an alert to JDLink if the safety belt isn't latched within 30 seconds after the parking brake is released.



On the winning side

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



Keep your cool

Quad-Cool™ system design places coolers in a unique boxed configuration that's isolated from engine heat, for increased efficiency and durability. Standard hydraulic reversing fan automatically reverses at predetermined intervals, or can be programmed through the monitor, to eject debris from the cooler cores.

824

824 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.

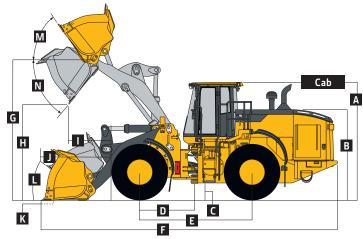
Engine	824 P-TIER								
Manufacturer and Model	John Deere PowerTech™ PSS 6	090							
Non-Road Emission Standard	EPA Final Tier 4/EU Stage V								
Cylinders	6								
Valves per Cylinder	4								
Displacement	9.0 L (548 cu. in.)								
Net Peak Power (ISO 9249)		56 kW (343 hp) at 1,600 rpm							
Net Peak Torque (ISO 9249)		527 Nm (1,200 lbft.) at 1,300 rpm							
Net Torque Rise	57%								
Fuel System	High-pressure common rail								
Lubrication	Full-flow spin-on filter and int	egral cooler							
Aspiration	Series turbocharged, charge a								
Air Cleaner		type, restriction indicator in cab monitor for service							
Cooling		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
Fan Drive	Hydraulically driven, proportion	nally controlled, fan aft of coolers							
Electrical	,,,,,								
Electrical System	24 volt with 150-amp alternate	Or .							
Batteries (2 – 12 volt)	1,400 CCA (each)								
Transmission System	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
Type	Countershaft-type PowerShift	™ with lockup torque converter							
Torque Converter		reewheeling stator with lockup clutch							
Shift Control		otive, load and speed dependent							
Operator Interface		ounted F-N-R and gear-select lever; Quick-Shift button on hydraulic lever							
Shift Modes		5th); Quick-Shift button with 2 selectable modes: kick-down or kick-up/down; and 4 settings							
5	for clutch cutoff	san, quien sim e saccon man 2 secenasie modes, men as mis nen aprasmi, and i secenigs							
Maximum Travel Speeds (with 26.5 R 25,	Standard 5-Speed With Lockup	o Torque Converter							
1 Star L3 tires)	Forward	Reverse							
Range 1	7.1 km/h (4.4 mph)	71 km/h (4.4 mph)							
Range 2	13.3 km/h (8.3 mph)	13.3 km/h (8.3 mph)							
Range 3	20.3 km/h (12.6 mph)	29.0 km/h (18.0 mph)							
Range 4	29.0 km/h (18.0 mph)	N/A							
Range 5	40.0 km/h (24.9 mph)	N/A							
Axles/Brakes	1010 111111 12 113 111								
Final Drives	Heavy-duty inboard-mounted	planetary							
Differentials		onventional rear – standard; dual locking front and rear – optional							
Rear Axle Oscillation, Stop to Stop	26 deg. (13 deg. each direction								
(with 26.5 R 25, 1 Star L3 tires)	20 deg. (15 deg. ede.) direction	'							
Brakes (conform to ISO 3450)									
Service	Hydraulically actuated, spring	released, inboard, sun-gear mounted, pressure oil cooled, self-adjusting, single disc							
Parking		raulically released, oil cooled, multi disc							
Tires/Wheels	эрриги, гу								
(see page 12 for complete tire adjustments)									
ises page 12 res complete the adjassiments,	Tread Width	Width Over Tires							
Michelin 26.5 R 25, 1 Star L3	2298 mm (90.5 in.)	3084 mm (121,4 in.)							
Serviceability									
Refill Capacities									
Fuel Tank With Lockable Cap	477 L (126 gal.)								
Diesel Exhaust Fluid (DEF)	26.3 L (6.9 gal.)								
Cooling System	48 L (50.7 qt.)								
Engine Oil With Vertical Spin-On	34 L (36 qt.)								
Filter	3 · 2 (30 qc.,								
Transmission Reservoir With Vertical	28 L (29.5 qt.)								
Filter									
Axle Oil (front and rear, each)	55.3 L (58.4 qt.)								
Hydraulic Reservoir and Filter	142 L (37.5 gal.)								
	_								
Park Brake Oil (wet disc)	0.7 L (24 oz.)								

824 P-TIER WHEEL LOADER SPECIFICATIONS



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Loader Pumps 2 Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,250 rpm System Relief Pressure (loader and steering) Steering Pump 1 Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,250 rpm System Relief Pressure (loader and steering) Loader Controls 2- Steering (conforms to ISO 5010) Type Pc Articulation Angle 86	84.5 L/m (128 gpm) 4 900 kPa (3,610 psi) variable-displacement, load-sensir 51.5 L/m (43 gpm) 4 900 kPa (3,610 psi)	ng axial-piston pumps; closed-center system ng axial-piston pump; closed-center system ver controls; control lever lockout feature; optional 3rd- and 4th-function valve with
Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,250 rpm System Relief Pressure (loader and steering) Steering Pump 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 Articulation Angle Gi Turning Radius (measured to centerline 55:	84.5 L/m (128 gpm) 4 900 kPa (3,610 psi) variable-displacement, load-sensir 51.5 L/m (43 gpm) 4 900 kPa (3,610 psi) -function valve; single- or dual-lev	ng axial-piston pump; closed-center system
(1,000 psi) and 2,250 rpm System Relief Pressure (loader and steering) Steering Pump 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 Articulation Angle 6 Girning Radius (measured to centerline 5:	4 900 kPa (3,610 psi) variable-displacement, load-sensir 51.5 L/m (43 gpm) 4 900 kPa (3,610 psi) -function valve; single- or dual-lev	
steering) Steering Pump 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 Articulation Angle graph of the steering of the ste	variable-displacement, load-sensir 51.5 L/m (43 gpm) 4 900 kPa (3,610 psi) -function valve; single- or dual-lev	
Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,250 rpm System Relief Pressure (loader and steering) Loader Controls 2- Steering (conforms to ISO 5010) Type Po Articulation Angle 80 Turning Radius (measured to centerline 55:	51.5 L/m (43 gpm) 4 900 kPa (3,610 psi) -function valve; single- or dual-lev	
(1,000 psi) and 2,250 rpm System Relief Pressure (loader and steering) Loader Controls Steering (conforms to ISO 5010) Type Articulation Angle di Turning Radius (measured to centerline 5:	4 900 kPa (3,610 psi) -function valve; single- or dual-lev	ver controls; control lever lockout feature; optional 3rd- and 4th-function valve with
steering) Loader Controls 2- au Steering (conforms to ISO 5010) Type Po Articulation Angle 80 di Turning Radius (measured to centerline 5:	-function valve; single- or dual-lev	ver controls; control lever lockout feature; optional 3rd- and 4th-function valve with
Steering (conforms to ISO 5010) Type Po Articulation Angle di Turning Radius (measured to centerline 5:	. 3	ver controls; control lever lockout feature; optional 3rd- and 4th-function valve with
Type Po Articulation Angle 80 di Turning Radius (measured to centerline 5:		
Articulation Angle 80 di Turning Radius (measured to centerline 5:	•	
di Turning Radius (measured to centerline 5.1	ower, fully hydraulic	
3	O-deg. arc (40 deg. each irection)	
or outside tire,	.92 m (19 ft. 5 in.)	M
Hydraulic Cycle Times St	tandard-Lift	
Raise 5.	.9 sec.	
Dump 1.3	3 sec.	Cab
Lower (float down) 2.	.5 sec.	
Total 9.	.7 sec.	G
Dimensions and Specifications With Pin-Or		



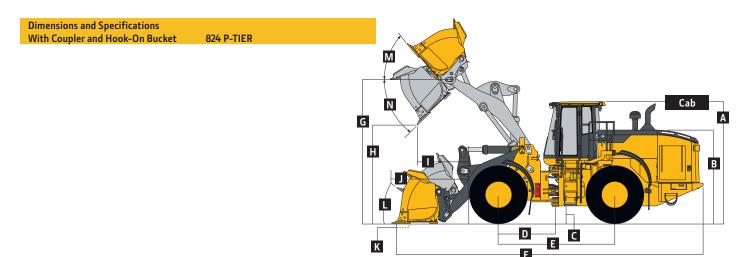
824 P-TIER STANDARD-LIFT AND HIGH-LIFT LOADERS WITH PIN-ON BUCKET

	Standard-Lift	Standard-Lift	Standard-Lift	Standard-Lift	Standard-Lift	Standard-Lift			High-Lift	High-Lift
							5.2-m³ (6.75 cı			
					u. yd.) general- _l	purpose	material-hand	_	4.7-m³ (6.1 cu.	, .
Dimensions With Bucket	4.7-m³ (6.1 cu.	yd.) general-pu	rpose	enhanced perf			enhanced perf	ormance	general-purpo	
		teeth and			teeth and					teeth and
Cutting Edge Type	bolt-on edge	segments	JAGZ™		segments	JAGZ	bolt-on edge	JAGZ	bolt-on edge	segments
A Height to Top of Cab	3.57 m	3.57 m	3.57 m	3.57 m	3.57 m	3.57 m	3.57 m	3.57 m	3.57 m	3.57 m
	(11 ft. 9 in.)	(11 ft. 9 in.)	(11 ft. 9 in.)	(11 ft. 9 in.)	(11 ft. 9 in.)	(11 ft. 9 in.)	(11 ft. 9 in.)	(11 ft. 9 in.)	(11 ft. 9 in.)	(11 ft. 9 in.)
B Hood Height	2.73 m	2.73 m	2.73 m	2.73 m	2.73 m	2.73 m	2.73 m	2.73 m	2.73 m	2.73 m
	(8 ft. 11 in.)	(8 ft. 11 in.)	(8 ft. 11 in.)	(8 ft. 11 in.)	(8 ft. 11 in.)	(8 ft. 11 in.)	(8 ft. 11 in.)	(8 ft. 11 in.)	(8 ft. 11 in.)	(8 ft. 11 in.)
C Ground Clearance	458 mm	458 mm	458 mm	458 mm	458 mm	458 mm	458 mm	458 mm	458 mm	458 mm
	(18 in.)	(18 in.)	(18 in.)	(18 in.)	(18 in.)	(18 in.)	(18 in.)	(18 in.)	(18 in.)	(18 in.)
D Length From Centerline to Front Axle	1.70 m	1.70 m	1.70 m	1.70 m	1.70 m	1.70 m	1.70 m	1.70 m	1.70 m	1.70 m
	(5 ft. 7 in.)	(5 ft. 7 in.)	(5 ft. 7 in.)	(5 ft. 7 in.)	(5 ft. 7 in.)	(5 ft. 7 in.)	(5 ft. 7 in.)	(5 ft. 7 in.)	(5 ft. 7 in.)	(5 ft. 7 in.)
E Wheelbase	3.46 m	3.46 m	3.46 m	3.46 m	3.46 m	3.46 m	3.46 m	3.46 m	3.46 m	3.46 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.)	(11 ft. 4 in.)	(11 ft. 4 in.)
F Overall Length, Bucket on Ground	9.28 m	9.49 m	9.28 m	9.38 m	9.59 m	9.37 m	9.44 m	9.44 m	9.78 m	9.99 m
	(30 ft. 5 in.)	(31 ft. 2 in.)	(30 ft. 5 in.)	(30 ft. 9 in.)	(31 ft. 6 in.)	(30 ft. 9 in.)	(31 ft. 0 in.)	(31 ft. 0 in.)	(32 ft. 1 in.)	(32 ft. 9 in.)
G Height to Hinge Pin, Fully Raised	4.48 m	4.48 m	4.48 m	4.48 m	4.48 m	4.48 m	4.48 m	4.48 m	4.85 m	4.85 m
	(14 ft. 9 in.)	(14 ft. 9 in.)	(14 ft. 9 in.)	(14 ft. 9 in.)	(14 ft. 9 in.)	(14 ft. 9 in.)	(14 ft. 9 in.)	(14 ft. 9 in.)	(15 ft. 11 in.)	(15 ft. 11 in.)
H Dump Clearance, 45 deg., Full Height	3.19 m	3.06 m	3.20 m	3.12 m	2.98 m	3.13 m	3.08 m	3.08 m	3.64 m	3.51 m
	(10 ft. 6 in.)	(10 ft. 0 in.)	(10 ft. 6 in.)	(10 ft. 3 in.)	(9 ft. 9 in.)	(10 ft. 3 in.)	(10 ft. 1 in.)	(10 ft. 1 in.)	(11 ft. 11 in.)	(11 ft. 6 in.)
I Reach, 45-deg. Dump, Full Height	1.28 m	1.42 m	1.28 m	1.33 m	1.47 m	1.33 m	1.38 m	1.38 m	1.64 m	1.79 m
	(4 ft. 2 in.)	(4 ft. 8 in.)	(4 ft. 2 in.)	(4 ft. 4 in.)	(4 ft. 10 in.)	(4 ft. 4 in.)	(4 ft. 6 in.)	(4 ft. 6 in.)	(5 ft. 5 in.)	(5 ft. 10 in.)
J Reach, 45-deg. Dump, 2.13-m (7 ft. 0 in.)	2.05 m	2.12 m	2.05 m	2.08 m	2.15 m	2.09 m	2.11 m	2.11 m	2.50 m	2.58 m
Clearance	(6 ft. 9 in.)	(6 ft. 11 in.)	(6 ft. 9 in.)	(6 ft. 10 in.)	(7 ft. 1 in.)	(6 ft. 10 in.)	(6 ft. 11 in.)	(6 ft. 11 in.)	(8 ft. 2 in.)	(8 ft. 5 in.)
K Maximum Digging Depth	116 mm	135 mm	112 mm	123 mm	143 mm	119 mm	129 mm	126 mm	229 mm	249 mm
	(4.6 in.)	(5.3 in.)	(4.4 in.)	(4.8 in.)	(5.6 in.)	(4.7 in.)	(5.1 in.)	(5.0 in.)	(9.0 in.)	(9.8 in.)
L Maximum Rollback at Ground Level	45.4 deg.	45.4 deg.	45.4 deg.	45.4 deg.	45.4 deg.	45.4 deg.	45.4 deg.	45.4 deg.	41.5 deg.	41.5 deg.
M Maximum Rollback, Boom Fully Raised	52.0 deg.	52.0 deg.	52.0 deg.	52.0 deg.	52.0 deg.	52.0 deg.	52.0 deg.	52.0 deg.	53.1 deg.	53.1 deg.
N Maximum Bucket Dump Angle, Fully Raised	44.3 deg.	44.3 deg.	44.3 deg.	44.8 deg.	44.8 deg.	44.8 deg.	44.8 deg.	44.8 deg.	40.0 deg.	40.0 deg.
Loader Clearance Circle, Bucket Carry Position	14.14 m	14.26 m	14.13 m	14.20 m	14.34 m	14.20 m	14.24 m	14.24 m	14.27 m	14.35 m
	(46 ft. 5 in.)	(46 ft. 9 in.)	(46 ft. 4 in.)	(46 ft. 7 in.)	(47 ft. 1 in.)	(46 ft. 7 in.)	(46 ft. 9 in.)	(46 ft. 9 in.)	(46 ft. 10 in.)	(47 ft. 1 in.)

Dimensions and Specifications										
With Pin-On Bucket (continued)	824 P-TIER									
	Standard-	Standard-	Standard-	Standard-	Standard-	Standard-	Standard-	Standard-		
	Lift	Lift	Lift	Lift	Lift	Lift	Lift	Lift	High-Lift	High-Lift
							5.2-m³ (6.75 c	-		
				4.8-m³ (6.25	, ,	al-purpose	material-han	_	4.7-m³ (6.1 cu	-
Specifications With Bucket	4.7-m³ (6.1 cu	. yd.) general- _l	purpose	enhanced per			enhanced pe	rformance	general-purp	
	bolt-on	teeth and		bolt-on	teeth and		bolt-on		bolt-on	teeth and
Cutting Edge Type	edge	segments	JAGZ™	edge	segments	JAGZ	edge	JAGZ	edge	segments
Capacity, Heaped	4.7 m ³	4.7 m ³	4.7 m ³	4.8 m ³	4.8 m ³	4.8 m ³	5.2 m ³	5.2 m ³	4.7 m ³	4.7 m ³
	(6.1 cu. yd.)	(6.1 cu. yd.)	(6.1 cu. yd.)	(6.25 cu. yd.)	(6.25 cu. yd.)			(6.75 cu. yd.)	(6.1 cu. yd.)	(6.1 cu. yd.)
Capacity, Heaped at 110% Fill Factor	5.1 m ³	5.1 m ³	5.1 m ³	5.3 m ³	5.3 m ³	5.3 m ³	5.7 m ³	5.7 m ³	5.1 m ³	5.1 m ³
	(6.7 cu. yd.)	(6.7 cu. yd.)	(6.7 cu. yd.)	(6.88 cu. yd.)		(6.88 cu. yd.)	(7.43 cu. yd.)		(6.7 cu. yd.)	(6.7 cu. yd.)
Capacity, Struck	4.0 m ³	4.0 m ³	4.0 m ³	4.1 m ³	4.1 m ³	4.1 m ³	4.4 m ³	4.4 m ³	4.0 m ³	4.0 m ³
B. L. W. L. W. B. L. O. C	(5.3 cu. yd.)	(5.3 cu. yd.)	(5.3 cu. yd.)	(5.36 cu. yd.)	, ,	(5.36 cu. yd.)	(5.8 cu. yd.)	(5.8 cu. yd.)	(5.3 cu. yd.)	(5.3 cu. yd.)
Bucket Weight With Bolt-On Cutting Edge	2437 kg	2561 kg	2460 kg	2464 kg	2587 kg	2486 kg	2505 kg	2527 kg	2437 kg	2561 kg
Duralizat Milidath	(5,373 lb.)	(5,646 lb.)	(5,423 lb.)	(5,432 lb.)	(5,703 lb.)	(5,481 lb.)	(5,523 lb.)	(5,571 lb.)	(5,373 lb.)	(5,646 lb.)
Bucket Width	3.28 m (10 ft. 9 in.)	3.31 m (10 ft. 10 in.)	3.28 m	3.28 m (10 ft. 9 in.)	3.31 m (10 ft. 10 in.)	3.28 m	3.28 m (10 ft. 9 in.)			
Breakout Force	18 878 kg	16 636 kg	18 905 kg	17 776 kg	15 755 kg	17 798 kg	17 054 kg	17 077 kg	17 695 kg	15 591 kg
Diedkout Force	(41.619 lb.)	(36.676 lb.)	(41.678 lb.)	(39.189 lb.)	(34.734 lb.)	(39.238 lb.)	(37.598 lb.)	(37.648 lb.)	(39.011 lb.)	(34.372 lb.)
Tipping Load, Straight, No Tire Deflection	21 056 kg	20 890 kg	21 028 kg	20 786 kg	20 618 kg	20 757 kg	20 623 kg	20 597 kg	17 809 kg	17 649 kg
ripping Load, Straight, No The Beneetion	(46.420 lb.)	_	(46.359 lb.)	(45.825 lb.)	(45.455 lb.)	(45.761 lb.)	(45.466 lb.)	(45.409 lb.)	(39.262 lb.)	(38,909 lb.)
Tipping Load, Straight, With Tire Deflection	19 659 kg	19 494 kg	19 632 kg	19 413 kg	19 248 kg	19 386 kg	19 254 kg	19 227 kg	18 099 kg	17 898 kg
ppg 2000, Strangine, Then the Beneetten	(43,341 lb.)	(42,977 lb.)	(43,281 lb.)	(42,798 lb.)	(42,435 lb.)	(42,739 lb.)	(42,448 lb.)	(42,388 lb.)	(39,901 lb.)	(39,458 lb.)
Tipping Load, 37-deg. Partial Turn	18 525 kg	18 359 kg	18 497 kg	18 281 kg	18 113 kg	18 252 kg	18 131 kg	18 105 kg	15 603 kg	15 443 kg
11 3	(40,841 lb.)	(40,475 lb.)	(40,779 lb.)	(40,303 lb.)	(39,932 lb.)	(40,239 lb.)	(39,972 lb.)	(39,915 lb.)	(34,399 lb.)	(34,046 lb.)
Tipping Load, 40-deg. Full Turn, No Tire	18 116 kg	17 949 kg	18 088 kg	17 875 kg	17 708 kg	17 847 kg	17 728 kg	17 702 kg	15 246 kg	15 086 kg
Deflection	(39,939 lb.)	(39,571 lb.)	(39,877 lb.)	(39,408 lb.)	(39,039 lb.)	(39,346 lb.)	(39,084 lb.)	(39,026 lb.)	(33,612 lb.)	(33,259 lb.)
Tipping Load, 40-deg. Full Turn, With	16 293 kg	16 131 kg	16 266 kg	16 083 kg	15 918 kg	16 056 kg	15 939 kg	15 912 kg	15 126 kg	14 925 kg
Tire Deflection	(35,920 lb.)	(35,563 lb.)	(35,860 lb.)	(35,457 lb.)	(35,093 lb.)	(35,397 lb.)	(35,139 lb.)	(35,080 lb.)	(33,347 lb.)	(32,904 lb.)
Rated Operating Load, 50% Full-Turn	8147 kg	8066 kg	8133 kg	8042 kg	7959 kg	8028 kg	7970 kg	7956 kg	7563 kg	7463 kg
Tipping Load, With Tire Deflection (conforms to ISO 14397-1)*	(17,961 lb.)	(17,782 lb.)	(17,930 lb.)	(17,730 lb.)	(17,547 lb.)	(17,699 lb.)	(17,571 lb.)	(17,540 lb.)	(16,674 lb.)	(16,453 lb.)
Operating Weight	26 460 kg (58,334 lb.)	26 584 kg (58,608 lb.)	26 483 kg (58,385 lb.)	26 487 kg (58,394 lb.)	26 610 kg (58,665 lb.)	26 509 kg (58,442 lb.)	26 528 kg (58,484 lb.)	26 550 kg (58.533 lb.)	26 840 kg (59,172 lb.)	26 963 kg (59,443 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.

^{*}Rated operating capacity based on Deere attachments only.



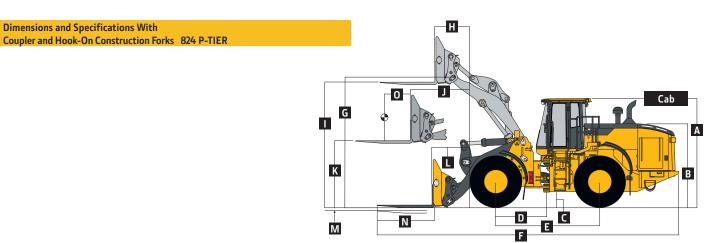
824 P-TIER STANDARD-LIFT AND HIGH-LIFT LOADERS WITH COUPLER AND HOOK-ON BUCKET

	Standard-	Standard-	Standard-	Standard-	Standard-	Standard-	Standard-	Standard-	Standard-	Standard-	Standard-	Standard-	
	Lift	Lift	Lift	Lift	Lift	Lift	Lift	Lift	Lift	Lift	Lift	Lift	High-Lift
	20 m³/E∩	cu. yd.) gene	eral nurnoca	40 m3/E 2	E cu ud l aon	eral-purpose	/. /. m3 /E 70	5 cu. yd.) gene	ral nurnoco	46 m ³ 16 0	cu. yd.) gene	aral nurnaca	4.4-m³ (5.75 cu.
Dimensions With Bucket		cu. yu.) gene ced performa			ced perform			ced performa			cu. ya.) gene ced perform		vd.) GP E
Difficisions With Bucket	bolt-on	teeth and	111CC (L1 /	bolt-on	teeth and	ance (E) /	bolt-on	teeth and	11100 (217)	bolt-on	teeth and	ance (Li)	bolt-on
Cutting Edge Type	edge	segments	JAGZ	edge	segments	JAGZ	edge	segments	JAGZ	edge	segments	JAGZ	edge
A Height to Top of Cab	3.57 m	3.57 m	3.57 m	3.57 m	3.57 m	3.57 m	3.57 m	3.57 m	3.57 m	3.57 m	3.57 m	3.57 m	3.57 m
	(11 ft.	(11 ft.	(11 ft.	(11 ft.	(11 ft.	(11 ft.	(11 ft.	(11 ft.	(11 ft.	(11 ft.	(11 ft.	(11 ft.	(11 ft.
B Hood Height	9 in.) 2.73 m	9 in.) 2.73 m	9 in.) 2.73 m	9 in.) 2.73 m	9 in.) 2.73 m	9 in.) 2.73 m	9 in.) 2.73 m	9 in.) 2.73 m	9 in.) 2.73 m	9 in.) 2.73 m	9 in.) 2.73 m	9 in.) 2.73 m	9 in.) 2.73 m
b Hood Height	(8 ft.	(8 ft.	(8 ft.	(8 ft.	(8 ft.	(8 ft.	(8 ft.	(8 ft.	(8 ft.	(8 ft.	(8 ft.	(8 ft.	(8 ft.
	11 in.)	11 in.)	11 in.)	11 in.)	11 in.)	11 in.)	11 in.)	11 in.)	11 in.)	11 in.)	11 in.)	11 in.)	11 in.)
C Ground Clearance	458 mm	458 mm	458 mm	458 mm	458 mm	458 mm	458 mm	458 mm	458 mm	458 mm	458 mm	458 mm	458 mm
D 1 115 C 1 11 1	(18 in.)	(18 in.)	(18 in.)	(18 in.)	(18 in.)	(18 in.)	(18 in.)	(18 in.)	(18 in.)	(18 in.)	(18 in.)	(18 in.)	(18 in.)
D Length From Centerline to Front Axle	1.70 m (5 ft.	1.70 m (5 ft.	1.70 m (5 ft.	1.70 m (5 ft.	1.70 m (5 ft.	1.70 m (5 ft.	1.70 m (5 ft.	1.70 m (5 ft.	1.70 m (5 ft.	1.70 m (5 ft.	1.70 m (5 ft.	1.70 m (5 ft.	1.70 m (5 ft.
FIGHT Axie	7 in.)	7 in.)	7 in.)	7 in.)	7 in.)	7 in.)	7 in.)	7 in.)	7 in.)	7 in.)	7 in.)	7 in.)	7 in.)
E Wheelbase	3.46 m	3.46 m	3.46 m	3.46 m	3.46 m	3.46 m	3.46 m	3.46 m	3.46 m	3.46 m	3.46 m	3.46 m	3.46 m
	(11 ft.	(11 ft.	(11 ft.	(11 ft.	(11 ft.	(11 ft.	(11 ft.	(11 ft.	(11 ft.	(11 ft.	(11 ft.	(11 ft.	(11 ft.
	4 in.)	4 in.)	4 in.)	4 in.)	4 in.)	4 in.)	4 in.)	4 in.)	4 in.)	4 in.)	4 in.)	4 in.)	4 in.)
F Overall Length, Bucket on Ground	9.30 m (30 ft.	9.51 m (31 ft.	9.30 m (30 ft.	9.32 m (30 ft.	9.53 m (31 ft.	9.31 m (30 ft.	9.41 m (30 ft.	9.62 m (31 ft.	9.40 m (30 ft.	9.46 m (31 ft.	9.67 m (31 ft.	9.46 m (31 ft.	9.91 m (32 ft.
	6 in.)	3 in.)	6 in.)	7 in.)	3 in.)	7 in.)	(30 Tt. 11 in.)	7 in.)	10 in.)	lin.)	9 in.)	1 in.)	6 in.)
G Height to Hinge Pin, Fully Raised	4.48 m	4.48 m	4.48 m	4.48 m	4.48 m	4.48 m	4.48 m	4.48 m	4.48 m	4.85 m	4.85 m	4.48 m	4.48 m
	(14 ft.	(14 ft.	(14 ft.	(14 ft.	(14 ft.	(14 ft.	(14 ft.	(14 ft.	(14 ft.	(15 ft.	(15 ft.	(14 ft.	(14 ft.
	9 in.)	9 in.)	9 in.)	9 in.)	9 in.)	9 in.)	9 in.)	9 in.)	9 in.)	11 in.)	11 in.)	9 in.)	9 in.)
H Dump Clearance, 45 deg.,	3.17 m (10 ft.	3.03 m (9 ft.	3.18 m (10 ft.	3.16 m (10 ft.	3.02 m (9 ft.	3.17 m (10 ft.	3.10 m (10 ft.	2.96 m (9 ft.	3.11 m (10 ft.	3.07 m (10 ft.	2.93 m (9 ft.	3.07 m (10 ft.	3.57 m (11 ft.
Full Height	(10 ft. 5 in.)	11 in.)	5 in.)	5 in.)	11 in.)	5 in.)	(10 1t. 2 in.)	9 in.)	(10 1t. 2 in.)	1 in.)	7 in.)	1 in.)	9 in.)
I Reach, 45-deg. Dump, Full Height	1.32 m	1.45 m	1.32 m	1.32 m	1.46 m	1.32 m	1.39 m	1.52 m	1.39 m	1.41 m	1.55 m	1.41 m	1.77 m
	(4 ft.	(4 ft.	(4 ft.	(4 ft.	(4 ft.	(4 ft.	(4 ft.	(5 ft.	(4 ft.	(4 ft.	(5 ft.	(4 ft.	(5 ft.
	4 in.)	9 in.)	4 in.)	4 in.)	9 in.)	4 in.)	7 in.)	0 in.)	7 in.)	8 in.)	1 in.)	8 in.)	10 in.)
J Reach, 45-deg. Dump, 2.13-m (7 ft. 0 in.) Clearance	2.10 m (6 ft.	2.17 m (7 ft.	2.10 m (6 ft.	2.10 m (6 ft.	2.17 m (7 ft.	2.10 m (6 ft.	2.14 m (7 ft.	2.20 m (7 ft.	2.14 m (7 ft.	2.15 m (7 ft.	2.21 m (7 ft.	2.15 m (7 ft.	2.59 m (8 ft.
(7 It. O III.) Clearance	11 in.)	1 in.)	11 in.)	11 in.)	1 in.)	11 in.)	(7 IL. 0 in.)	3 in.)	(7 IL. 0 in.)	(/ It. 1 in.)	(7 TL. 3 in.)	1 in.)	6 in.)
K Maximum Digging Depth	85 mm	105 mm	82 mm	90 mm	110 mm	87 mm	94 mm	114 mm	92 mm	105 mm	124 mm	101 mm	208 mm
33 3 .	(3.3 in.)	(4.1 in.)	(3.2 in.)	(3.6 in.)	(4.3 in.)	(3.4 in.)	(3.7 in.)	(4.5 in.)	(3.6 in.)	(4.1 in.)	(4.9 in.)	(4.0 in.)	(8.2 in.)
L Maximum Rollback at Ground Level	45.4 deg.	45.4 deg.	45.4 deg.	45.4 deg.	45.4 deg.	45.4 deg.	45.4 deg.	45.4 deg.	45.4 deg.	45.4 deg.	45.4 deg.	45.4 deg.	41.6 deg.
M Maximum Rollback, Boom Fully Raised	52.0 deg.	52.0 deg.	52.0 deg.	52.0 deg.	52.0 deg.	52.0 deg.	52.0 deg.	52.0 deg.	52.0 deg.	52.0 deg.	52.0 deg.	52.0 deg.	53.1 deg.
N Maximum Bucket Dump Angle, Fully Raised	44.0 deg.	44.0 deg.	44.0 deg.	44.0 deg.	44.0 deg.	44.0 deg.	44.0 deg.	44.0 deg.	44.0 deg.	44.0 deg.	44.0 deg.	44.0 deg.	40.0 deg
Loader Clearance Circle, Bucket Carry Position	14.15 m (46 ft. 5 in.)	14.31 m (46 ft. 11 in.)	14.16 m (46 ft. 5 in.)	14.16 m (46 ft. 5 in.)	14.32 m (47 ft. 0 in.)	14.16 m (46 ft. 6 in.)	14.21 m (46 ft. 8 in.)	14.37 m (47 ft. 2 in.)	14.22 m (46 ft. 8 in.)	14.24 m (46 ft. 9 in.)	14.40 m (47 ft. 3 in.)	14.24 m (46 ft. 9 in.)	14.40 m (47 ft. 3 in.)

Dimensions and Specifications													
With Coupler and Hook-On													
Bucket (continued)	824 P-TIE												
	Standard-	Standard-	Standard-	Standard-	Standard-	Standard-	Standard-	Standard-	Standard-	Standard-	Standard-	Standard-	
	Lift	Lift	Lift	Lift	Lift	Lift	Lift	Lift	Lift	Lift	Lift	Lift	High-Li
								,					4.4-m³
		cu. yd.) genei			5 cu. yd.) gene			cu. yd.) gene			cu. yd.) gene		(5.75 cu
Specifications With Bucket		ced performa	nce (EP)		ced performa	nce (EP)		ced performa	nce (EP)		ced performa	ınce (EP)	yd.) GP
	bolt-on	teeth and		bolt-on	teeth and		bolt-on	teeth and		bolt-on	teeth and		bolt-on
Cutting Edge Type	edge	segments	JAGZ	edge	segments	JAGZ	edge	segments	JAGZ	edge	segments	JAGZ	edge
Capacity, Heaped	3.8 m ³	3.8 m ³	3.8 m ³	4.0 m ³	4.0 m ³	4.0 m ³	4.4 m ³	4.4 m ³	4.4 m ³	4.6 m ³	4.6 m ³	4.6 m ³	4.4 m ³
	(5.0	(5.0	(5.0	(5.25	(5.25	(5.25	(5.75	(5.75	(5.75	(6.0	(6.0	(6.0	(5.75
	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.)
Capacity, Heaped at 110% Fill	4.2 m ³	4.2 m^3	4.2 m^3	4.4 m ³	4.4 m ³	4.4 m ³	4.8 m ³	4.8 m ³	4.8 m ³	4.6 m ³	4.6 m ³	4.6 m ³	4.8 m ³
Factor	(5.5	(5.5	(5.5	(5.75	(5.75	(5.75	(6.33	(6.33	(6.33	(6.0	(6.0	(6.0	(6.33
	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.
Capacity, Struck	3.25 m ³	3.25 m ³	3.25 m ³	3.4m^3	3.4 m ³	3.4 m ³	3.8 m ³	3.8 m ³	3.8 m ³	4.0 m ³	4.0 m ³	4.0 m ³	3.8 m ³
	(4.25	(4.25	(4.25	(4.5	(4.5	(4.5	(4.97	(4.97	(4.97	(5.25	(5.25	(5.25	(4.97
	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.)	cu. yd.
Bucket Weight With Bolt-On	2499 kg	2625 kg	2522 kg	2586 kg	2712 kg	2609 kg	2672 kg	2735 kg	2695 kg	2730 kg	2857 kg	2753 kg	2672 kg
Cutting Edge	(5,509 lb.)	(5,788 lb.)	(5,560 lb.)	(5,701 lb.)	(5,980 lb.)	(5,752 lb.)	(5,890 lb.)	(6,031 lb.)	(5,941 lb.)	(6,019 lb.)	(6,298 lb.)	(6,070 lb.)	(5,890
Bucket Width	3.28 m	3.31 m	3.28 m	3.28 m	3.31 m	3.28 m	3.28 m	3.31 m	3.28 m	3.28 m	3.31 m	3.28 m	3.28 m
	(10 ft.	(10 ft.	(10 ft.	(10 ft.	(10 ft.	(10 ft.	(10 ft.	(10 ft.	(10 ft.	(10 ft.	(10 ft.	(10 ft.	(10 ft.
	9 in.)	10 in.)	9 in.)	9 in.)	10 in.)	9 in.)	9 in.)	10 in.)	9 in.)	9 in.)	10 in.)	9 in.)	9 in.)
Breakout Force	18 001 kg	15 908 kg	18 025 kg	17 834 kg	15 767 kg	17 856 kg	16 768 kg	14 905 kg	16 787 kg	16 266 kg	14 494 kg	16 283 kg	15 681 I
	(39.685 lb.)	(35,071 lb.)	(39,738 lb.)	(39.317 lb.)	(34.760 lb.)	(39.366 lb.)	(36.967 lb.)	(32,860 lb.)	(37,009 lb.)	(35.860 lb.)	(31.954 lb.)	(35,898 lb.)	(34.571
Tipping Load, Straight, No Tire	20 051 kg	19 885 kg	20 023 kg	20 064 kg	19 897 kg	20 037 kg	19 828 kg	19 658 kg	19 800 kg	19 582 kg	19 412 kg	19 553 kg	16 726 I
Deflection		(43,839 lb.)	5						(43,651 lb.)	(43,171 lb.)	5	(43,107 lb.)	(36,874
Tipping Load, Straight, With Tire	18 669 kg	18 504 kg	18 642 kg	18 672 kg	18 507 kg	18 645 kg	18 441 kg	18 273 kg	18 411 kg	18 204 kg	18 036 kg	18 174 kg	16 968
Deflection	(41.158 lb.)	(40,794 lb.)			(40,801 lb.)			(40,285 lb.)			5	(40,067 lb.)	
Tipping Load, 37-deg. Partial Turn	17 537 ka	17 370 kg	17 509 kg	17 539 kg	17 372 kg	17 511 kg	17 319 kg	17 149 kg	17 290 kg	17 095 kg	16 925 kg	17 067 kg	14 525
FF 3		(38,294 lb.)						(37,807 lb.)	(38,118 lb.)	(37,688 lb.)		(37,626 lb.)	(32,022
Tipping Load, 40-deg. Full Turn,	17 130 kg	16 963 kg	17 102 kg	17 131 kg	16 963 kg	17 103 kg	16 912 kg	16 743 kg	16 884 kg	16 692 kg	16 523 kg	16 664 kg	14 169 1
No Tire Deflection				(37,767 lb.)				(36,912 lb.)	_		(36,427 lb.)	_	
Tipping Load, 40-deg. Full Turn,	15 318 kg	15 153 kg	15 291 kg	15 306 kg	15 144 kg	15 279 kg	15 093 kg	14 925 kg	15 066 kg	14 883 kg	14 718 kg	14 856 kg	13 992
With Tire Deflection	(33,770 lb.)							(32,904 lb.)		(32,811 lb.)		(32,752 lb.)	(30,847
Rated Operating Load, 50%	7659 kg	7577 kg	7646 kg	7653 kg	7572 kg	7640 kg	7547 kg	7463 kg	7533 kg	7442 kg	7359 kg	7428 kg	6996 k
Full-Turn Tipping Load, With		(16,704 lb.)								5	(16,224 lb.)		
Tire Deflection (conforms to	,,	,,	,,,,,,,,	,. 5,0,2 .0.1	,.5,055 .0.1	,.5,0 .5 .6.,	,,	,,	,.5,007 .0.1	,,	,,	,,5,,5,,6,,1	,, 1
ISO 14397-1)*	27 F/O I	77 C7F I.	27 F72 I.	77 C77 L	77.7CO I	27 CEC I.	רב דר זו.	27.07.01	77.7/FI	27 770 L	27.007.1	27 001 1.	20.101
Operating Weight	27 549 kg	27 675 kg	27 572 kg	27 633 kg		27 656 kg		27 848 kg		27 778 kg	27 904 kg	27 801 kg	28 101 1
		(61,013 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.

*Rated operating capacity based on Deere attachments only.



824 P-TIER STANDARD-LIFT AND HIGH-LIFT LOADERS WITH HOOK-ON CONSTRUCTION FORKS

	Standard-Lift	Standard-Lift	High-Lift
Dimensions With Forks	1.83-m (72 in.) tine length	2.44-m (96 in.) tine length	1.83-m (72 in.) tine length
A Height to Top of Cab	3.57 m (11 ft. 9 in.)	3.57 m (11 ft. 9 in.)	3.57 m (11 ft. 9 in.)
B Hood Height	2.73 m (8 ft. 11 in.)	2.73 m (8 ft. 11 in.)	2.73 m (8 ft. 11 in.)
C Ground Clearance	458 mm (18 in.)	458 mm (18 in.)	458 mm (18 in.)
	1.70 m (5 ft. 7 in.)	·	
D Length From Centerline to Front Axle		1.70 m (5 ft. 7 in.)	1.70 m (5 ft. 7 in.)
E Wheelbase	3.46 m (11 ft. 4 in.)	3.46 m (11 ft. 4 in.)	3.46 m (11 ft. 4 in.)
F Overall Length, Forks on Ground	9.96 m (32 ft. 8 in.)	10.57 m (34 ft. 8 in.)	10.49 m (34 ft. 5 in.)
G Height to Hinge Pin, Fully Raised	4.48 m (14 ft. 9 in.)	4.48 m (14 ft. 9 in.)	4.48 m (14 ft. 9 in.)
H Reach, Fully Raised	0.81 m (32 in.)	0.81 m (32 in.)	1.05 m (3 ft. 5 in.)
I Fork Height, Fully Raised	3.45 m (11 ft. 4 in.)	3.45 m (11 ft. 4 in.)	3.79 m (12 ft. 5 in.)
J Maximum Reach, Fork Level	1.87 m (6 ft. 2 in.)	1.87 m (6 ft. 2 in.)	2.29 m (7 ft. 6 in.)
K Fork Height, Maximum Reach	1.29 m (4 ft. 3 in.)	1.29 m (4 ft. 3 in.)	1.29 m (4 ft. 3 in.)
L Reach, Ground Level	1.14 m (3 ft. 9 in.)	1.14 m (3 ft. 9 in.)	1.67 m (5 ft. 6 in.)
M Depth Below Ground	55 mm (2.2 in.)	55 mm (2.2 in.)	59 mm (2.3 in.)
N Tine Length	1.83 m (72 in.)	2.44 m (96 in.)	1.83 m (72 in.)
O Load Position, 50% Tine Length	0.92 m (36 in.)	1.22 m (48 in.)	0.92 m (36 in.)
Specifications With Forks			
Tipping Load, Straight, No Tire	14 275 kg (31,471 lb.)	12 992 kg (28,642 lb.)	12 442 kg (27,430 lb.)
Deflection			
Tipping Load, Straight, With Tire	13 827 kg (30,483 lb.)	12 603 kg (27,785 lb.)	12 069 kg (26,608 lb.)
Deflection			
Tipping Load, 37-deg. Partial Turn,	12 554 kg (27,677 lb.)	11 402 kg (25,137 lb.)	10 895 kg (24,019 lb.)
No Tire Deflection			
Tipping Load, 40-deg. Full Turn,	12 276 kg (27,064 lb.)	11 145 kg (24,570 lb.)	10 645 kg (23,468 lb.)
No Tire Deflection			
Tipping Load, 40-deg. Full Turn,	11 649 kg (25,682 lb.)	10 596 kg (23,360 lb.)	10 119 kg (22,309 lb.)
With Tire Deflection			
Rated Operating Load, 50% Full-Turn	5825 kg (12,842 lb.)	5298 kg (11,680 lb.)	5060 kg (11,155 lb.)
Tipping Load, With Tire Deflection			
(conforms to ISO 14397-1)*			
Rated Operating Load, Rough Terrain,	6989 kg (15,408 lb.)	6358 kg (14,017 lb.)	6071 kg (13,384 lb.)
60% Full-Turn Tipping Load, With Tire		_	_
Deflection (conforms to EN474-3)*			
Rated Operating Load, Firm and Level	9319 kg (20,545 lb.)	8477 kg (18,689 lb.)	8095 kg (17,846 lb.)
Ground, 80% Full-Turn Tipping Load,	3	3 .	
With Tire Deflection (conforms to			
EN474-3)*			
Operating Weight	26 481 kg (58,381 lb.)	26 654 kg (58,762 lb.)	26 860 kg (59,216 lb.)
1 3 3			rTech PSS 6090 (EPA Final Tier 4/EU Staae V) enaine. ROPS cab.

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.

^{*}Rated operating capacity based on Deere attachments only.

Adjustments to Operating Weights

and Tipping Loads With Buckets 824 P-TIER

Adjustments to operating weights, tipping loads, and tires are based on Standard-Lift machine with pin-on 4.6-m³ (6.0 cu. yd.) general-purpose bucket with bolt-on cutting edge, ROPS cab, rear cast bumper/counterweight, transmission side-frame guards, bottom guards, standard tires, full fuel tank, and 79-kg (175 lb.) operator*

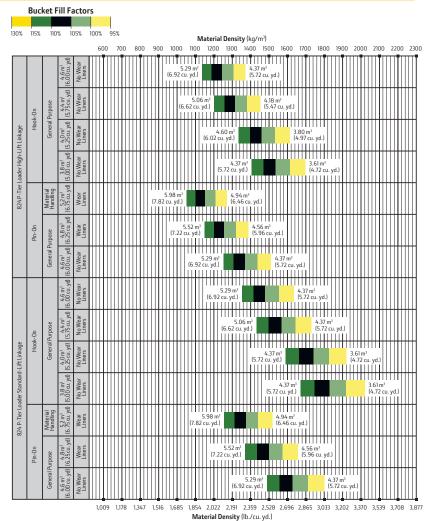
Add (+) or deduct (–) kg (lb.) as indicated	Operating	Tipping Load,	Tipping Load, 37-deg.	Tipping Load,			
for loaders with 3-piece rims	Weight	Straight	Partial Turn	40-deg. Full Turn	Tread Width	Width Over Tires	Vertical Height
Michelin 26.5 R 25, 2 Star L-3	0 kg (0 lb.)	0 kg (0 lb.)	0 kg (0 lb.)	0 kg (0 lb.)	0 mm (0 in.)	0 mm (0 in.)	0 mm (0 in.)
Titan 26.5 R 25, 1 Star L-3	0 kg (0 lb.)	0 kg (0 lb.)	0 kg (0 lb.)	0 kg (0 lb.)	0 mm (0 in.)	-7 mm (-0.27 in.)	+4 mm (+0.16 in.)
Goodyear 26.5 R 25, 1 Star L-3	-56 kg (-123 lb.)	-39 kg (-86 lb.)	-35 kg (-77 lb.)	-35 kg (-77 lb.)	0 mm (0 in.)	+1 mm (+0.04 in.)	+4 mm (+0.16 in.)
							+39 mm
Firestone 26.5-25, 20-Ply L-3	–360 kg	–254 kg	–228 kg	–224 kg	0 mm (0 in.)	–28 mm	
F:	(–794 lb.)	(-560 lb.)	(-503 lb.)	(-494 lb.)	0 (0:)	(–1.10 in.)	(+1.53 in.)
Firestone 26.5-25, 20-Ply L-5§	+312 kg	+220 kg	+197 kg	+194 kg	0 mm (0 in.)	–18 mm	+63 mm
M. I. I. 20 F B 25 2 G. I. 25	(+688 lb.)	(+485 lb.)	(+434 lb.)	(+428 lb.)	0 (0:)	(-0.70 in.)	(+2.48 in.)
Michelin 29.5 R 25, 2 Star L-3§	+604 kg	+426 kg	+382 kg	+375 kg	0 mm (0 in.)	+82 mm	+69 mm
	(+1,332 lb.)	(+939 lb.)	(+842 lb.)	(+827 lb.)		(+3.23 in.)	(+2.71 in.)
Titan 29.5 R 25, 1 Star L-3§	+664 kg	+468 kg	+420 kg	+412 kg	0 mm (0 in.)	+58 mm	+80 mm
	(+1,464 lb.)	(+1,032 lb.)	(+926 lb.)	(+908 lb.)		(+2.30 in.)	(+3.10 in.)
Bridgestone 29.5 R 25, 1 Star L-3§	+720 kg	+508 kg	+456 kg	+447 kg	0 mm (0 in.)	+71 mm	+78 mm
	(+1,587 lb.)	(+1,120 lb.)	(+1,005 lb.)	(+985 lb.)		(+2.80 in.)	(+3.00 in.)
Michelin 775/65 R29, 1 Star L-3§	+726 kg	+512 kg	+459 kg	+451 kg	0 mm (0 in.)	+104 mm	+23 mm
	(+1,601 lb.)	(+1,129 lb.)	(+1,012 lb.)	(+994 lb.)		(+4.09 in.)	(+0.91 in.)
Bridgestone 775/65 R29, 1 Star L-3§	+876 kg	+618 kg	+554 kg	+554 kg	0 mm (0 in.)	+99 mm	+14 mm
	(+1,931 lb.)	(+1,362 lb.)	(+1,221 lb.)	(+1,199 lb.)		(+3.90 in.)	(+0.55 in.)
4.8-m³ (6.25 cu. yd.) General-Purpose	+264 kg	-526 kg	–500 kg	-496 kg	0 mm (0 in.)	0 mm (0 in.)	0 mm (0 in.)
Bucket With Wear Liners	(+582 lb.)	(–1,160 lb.)	(-1,102 lb.)	(-1,093 lb.)			
5.2-m³ (6.75 cu. yd.) Material-Handling	+305 kg	-685 kg	–646 kg	-640 kg	0 mm (0 in.)	0 mm (0 in.)	0 mm (0 in.)
Bucket With Wear Liners	(+672 lb.)	(-1,510 lb.)	(-1,424 lb.)	(-1,411 lb.)			
High-Lift Boom	+379 kg	-3247 kg	–2922 kg	–2869 kg	0 mm (0 in.)	0 mm (0 in.)	0 mm (0 in.)
-	(+836 lb.)	(-7,158 lb.)	(-6,442 lb.)	(-6,325 lb.)			

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

[§]Requires 8-deg. rear axle stops.

Bucket Selection Guides 824 P-TIER

LOOSE MATERIALS	kg/m³	lb./cu. yd.	LOOSE MATERIALS	kg/m³	lb./cu. yd.
Chips, pulpwood	288	486	Limestone, coarse, sized	1570	2,646
Cinders (coal, ashes, clinkers)	673	1,134	Limestone, mixed sizes	1682	2,835
Clay and gravel, dry	1602	2,700	Limestone, pulverized or crushed	1362	2,295
Clay, compact, solid	1746	2,943	Sand, damp	2083	3,510
Clay, dry in lump loose	1009	1,701	Sand, dry	1762	2,970
Clay, excavated in water	1282	2,160	Sand, voids, full of water	2083	3,510
Coal, anthracite, broken, loose	865	1,458	Sandstone, quarried	1314	2,214
Coal, bituminous, moderately we	801	1,350	Shale, broken crushed	1362	2,295
Earth, common loam, dry	1218	2,052	Slag, furnace granulated	1955	3,294
Earth, mud, packed	1843	3,105	Stone or gravel, 37.5 to 87.5-mm		
Granite, broken	1538	2,592	(1.5 to 3.5 in.) size	1442	2,430
Gypsum	2275	3,834	Stone or gravel, 18.75-mm (0.75 in.) size	1602	2,700



Additional equipment

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

824 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
- Dual-stage fuel filter and water separator
- 500-hour vertical spin-on oil filter
- Engine-compartment light
- ▲ Chrome exhaust stack
- ▲ Automatic ether starting aid and engine block heater (recommended for cold starts below –12 deq. C [10 deq. F])
- Centrifugal engine air pre-cleaner
- ▲ Throttle lock

Powertrain

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

Quad-Cool™ Cooling System

- Heavy-duty, trash-resistant radiator and high-ambient cooling package
- 2-side access to all coolers

824 P Quad-Cool Cooling System (continued)

- Isolated from engine compartment
- Engine radiator
- Integral 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 with under-hood lighting
- Coolant-loss sensor
- Antifreeze, −37 deg. C (−34 deg. F)
- Cool-on-demand swing-out fan
- Enclosed fan safety guard
- Automatic reversing fan drive
- Axle and service-brake coolers

Hydraulics

- Electrohydraulic control with soft stops and adjustable settings
- In-cab adjustable automatic return-to-dig bucket positioner
- In-cab adjustable automatic boom-height kickout/return to carry
- Reservoir with sight gauge and fill strainer
- Hydraulic diagnostic ports
- 4,000-hour in-tank filter
- 2 function 2-lever fingertip controls
- ▲ 2 function –joystick
- ▲ 2 function joystick with F-N-R (steering wheel only)
- ▲ 3 function 3-lever fingertip controls
- ▲ 3 function joystick with integrated 3rd-function roller
- 3 function joystick with integrated 3rd-function roller and F-N-R (steering wheel only)
- ▲ 4 function joystick with integrated 3rd/4th-function rollers
- ▲ 4 function joystick with integrated 3rd/4th-function rollers and F-N-R (steering wheel only)
- 2 programmable multifunction buttons
- Adjustable and continuous auxiliary hydraulic-flow settings

824 P Hydraulics (continued)

- Programmable attachment settings
- Ride control, automatic with monitoradjustable speed settings
- Hydraulic control system for quick-coupler locking pins
- A Hydrau™ XR cold-temperature hydraulic fluid recommended below –25 deg. C (–13 deg. F)

Steering Systems

- Joystick steering with gearshift, F-N-R, and horn
- ▲ Conventional steering wheel with spinner knob
- ▲ Secondary steering

Electrical

- Solid-state electrical power-distribution system
- Lockable master electrical-disconnect
 switch
- Battery-terminal safety covers
- By-pass start safety cover at starter
- Remote jump-start access in battery box
- Pre-wired for beacon/strobe light
- ▲ Beacon bracket (single or dual available)
- ▲ LED strobe beacon
- Lights: Halogen driving lights with guards
 (2) / Front (4), rear cab (2), and rear grille
 (2) work lights / LEF front turn signals and flashers / LED stop- and taillights
- Premium LED work, drive, and marker lights
- Programmable courtesy lights
- Horn, electric
- Reverse warning alarm
- Multifunction/multi-language 178-mm (7 in.) LCD color monitor includes: Digital instruments Analog display (hydraulic oil temperature, engine coolant temperature, transmission oil temperature, and engine oil pressure) / Digital display (engine rpm, transmission gear/direction indicator, hour meter, fuel level, diesel exhaust fluid [DEF] level, speedometer, odometer, and average fuel consumption)

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.

Additional equipment (continued)

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

824 P Electrical (continued)

- Integrated cycle counter with 5 categories
- Indicator lights: Standard and selected options / Amber caution and red stop
- Operator-warning messages
- Built-in diagnostics: Diagnostic-code details / Sensor values / Calibrations / Individual circuit tester
- ▲ Electrical corrosion-prevention package
- Premium AM/FM/Weather Band (WB) radio with Bluetooth®, remote auxiliary port, and remote USB port
- ▲ 24- to 12-volt, 30-amp converter with 3 in-cab power ports

Operator's Station

- Quiet Cab with air conditioning/heater (ROPS/FOPS Level 2, isolation mounted)
- Automatic temperature control
- Rear window defrost vent
- Keyless start with multiple security modes
- Sealed-switch module with function indicators
- Premium seat with high-wide back and headrest extension, heated and ventilated, leather/fabric cover, pan tilt/extend, damper adjustments, and adjustable heavy-duty air suspension
- Hydraulic controls and joystick steering integrated to seat
- High-visibility, bright-orange seat belt,
 76 mm (3 in.), with retractor
- Seat-belt minder monitoring with JDLink™
- ▲ Seat-belt indicator beacon light
- Cup holder and cup/thermos holder with retaining strap
- Lunch-box/cooler holder with tie-down hrackets
- LED dome and reading light
- Coat hook
- Rubber floor mat
- ▲ Dual-tilt steering column (steering wheel only)
- Operator's manual storage compartment

824 P Operator's Station (continued)

- Outside (2) and inside (2) rearview mirrors
- ▲ In-cab adjustable heated outside mirrors with convex lens
- Left-side operator-station access
- Front window-washing platforms with fall-arrest system anchor points tested to 2268 kg (5,000 lb.)
- Slip-resistant steps and ergonomic handholds
- Pull-down front sun visor
- Pull-down rear sun visor
- CB radio ready with 12-volt power, bracket, and antennae included
- Front and rear intermittent windshield wiper and washers
- ▲ Powered cab air pre-cleaner
- Rearview camera
- ▲ Advanced radar object-detection system
- ▲ Advanced vision system
- Payload scale ready
- ▲ Payload scale system
- Payload scale system with printer
- ▲ Fire extinguisher

Loader Linkage

- Z-Bar loader linkage
- ▲ High-Lift Z-Bar loader linkage

Buckets and Attachments

- ▲ Full line of Deere pin-on buckets, hook-on buckets, and forks
- ▲ John Deere hydraulic coupler that accepts JRB 420-pattern attachments
- ▲ Bolt-on bucket spill guard
- Bushed pin joints (including static joints) on optional Enhanced-Performance buckets

Overall Vehicle

- JDLink wireless communication system (available in specific countries; see your dealer for details)
- Auto-lube system with empty reservoir sensor and diagnostics integrated into machine diagnostics and JDLink alerts
- Front and rear tie-downs

824 P Overall Vehicle (continued)

- Rear cast bumper 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, battery box, and filler access for radiator/ fuel/hydraulic transmission
- Right and left handrails, platforms, and steps
- Service steps and handholds
- Storage compartment
- Fuel-tank fill strainer
- Heavy-duty fuel-tank guard
- Ground-level fueling and DEF
- Same-side ground-level daily servicing
- Environmental drains for engine, transmission, hydraulic oils, and engine coolant
- Fluid-sampling ports for engine, transmission, hydraulic and axle oils, and engine coolant
- 26.5R25 tires on 5-piece rims
- ▲ 775/65R29 tires on 5-piece rims
- ▲ Tire-pressure monitoring system
- Level 1 sound package
- Level 2 sound package
- Transmission side-frame and bottom quards
- ▲ Fast-fuel system
- Quick fluid service (engine, transmission, hydraulic oils, and engine coolant)
- Fenders, full-coverage, front
- ▲ Fenders, full-coverage, front and rear
- ▲ Fenders, roading, full-coverage, front and rear
- Lift eyes
- ▲ Wheel-chock-mounting brackets
- ▲ License-plate bracket and light
- Special guarding for waste and forestry applications



