644 P

Wheel Loader

JOHN DEERE




ELEVATE YOUR
EXPECTATIONS

PACKED FOR PERFORMANCE

Have an ag-material-handling, site-development, or aggregates task that demands extra agility and capability? We've got a P-Tier Wheel Loader to meet the need. Built on the highly reliable platform of their K-II Series predecessors, these models are loaded with customer-inspired features that increase productivity and uptime. Fuel-friendly John Deere PowerTech™ diesels deliver generous displacement, power, and lugging ability. Standard five-speed PowerShift™ transmission with intelligent gear changes, high-performance buckets that maximize material retention, easy-access service points, and a wealth of cab conveniences and intuitive controls elevate the operator experience. Get ready to pack your workload and expand your opportunities.

Smart shift solution

Dynamic PowerShift transmission employs smart shift technology to continuously evaluate speed and load conditions, adjusting the coupling of the clutch packages whenever necessary. Featuring a torque converter that makes intelligent gear changes over five speed ranges, the system delivers impressive machine-response time, material-disintegration force, and long-term durability.

Keep your cool

Rugged construction and premium components including the axle-cooling system extend service intervals and minimize overall operating costs.

Power up

From accessible service points to state-of-the-art diagnostics, the John Deere PowerTech engine lets your maintenance team work smarter, not harder. Reliable and jobsite-proven engine/hydraulic match maintains boom and bucket power into and out of the pile, for full loads, even in wet or packed materials.

Comfort in the cab

In today's job market, enhancing the operator experience is more important than ever before. Spacious and quiet cab features a new ergonomic seat with high back, armrests, and headrest designed for all-day comfort. Dual-tilt steering column eases movement and increases flexibility. Automotive-style louvers enable all-around interior airflow.

Think outside the box

Quad-Cool™ cooling system design places the radiator, air-conditioner condenser, intercooler, and hydraulic, transmission, and standard axle coolers in a unique boxed configuration that's isolated from engine heat, to boost air circulation, heat-exchange efficiency, and overall durability.

In the right light

Energy-efficient LED worklight package provides better illumination while consuming less power than traditional halogen lights. Also requiring less frequent replacement and maintenance, LEDs expand visibility in low-light environments to put the focus on operator productivity and jobsite safety.

ERGONOMIC SEAT & DUAL-TILT STEERING EASE OPERATOR EFFORT



644 P

WHEEL LOADER



MAKE YOUR CHOICE OF FACTORY- OR DEALER-INSTALLED OPTIONS



HIT DEADLINES AND NEW HEIGHTS

Our 644 P-Tier Wheel Loader comes equipped with plenty of production-boosting features to help you handle anything you throw its way. But if yours isn't just any application, we've got you covered with a wide variety of cutting-edge options. So you can equip your loader with exactly what you need to elevate your efforts.

The bucket list

Designed to increase productivity and operational performance, new high-performance buckets feature an added structure at the top of the bucket to protect machine cylinders during loading and maximize material retention.

Carry that weight

Optional payload-scale system measures the weights of different materials being loaded and moved for clear operator visibility, optimizing capacity and accuracy. Eliminating guesswork to reduce loading times to get more done in less time, the factory-installed system helps boost overall efficiency and productivity. Easy-to-navigate panel lets the operator perform scale calibration, onboard diagnostics, and step-by-step troubleshooting when needed. Load-weight data can also be recorded and monitored through the John Deere Operations Center™.

Under control

With optional ride control, the lift cylinders act as shock absorbers, cushioning bumps to enable quick and effortless navigation over rough ground without losing the load. Optional wheel-spin control boosts productivity by improving traction in troublesome material or underfoot conditions, and it also reduces tire wear, fuel costs, and operator fatigue.

Closing the circuit

Optional corrosion package shields electrical components and connections to help prevent corrosive materials from short-circuiting productivity.

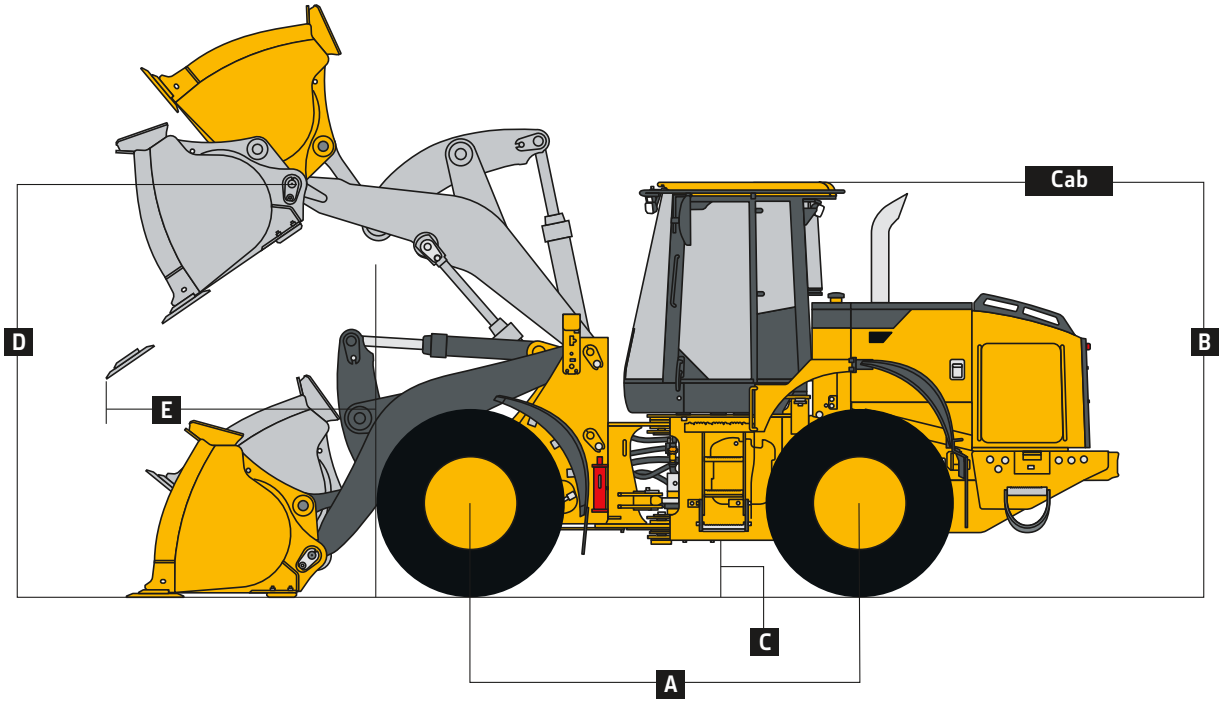
Connected machines

John Deere construction equipment comes with in-base connectivity — free from subscriptions or annual renewals. Analyze critical machine data, track utilization, review diagnostic alerts, and more from **the John Deere Operations Center.** The Operations Center also enables John Deere Connected Support™, which uses data from thousands of connected machines to proactively address issues before they arise. With your approval, your dealer can also remotely monitor machine health, diagnose problems, and even update machine software without a trip to the jobsite.*

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

644 P-TIER WHEEL LOADER SPECIFICATIONS

Driveline	644 P-TIER Z-BAR / HIGH-LIFT
Engine Manufacturer and Model	John Deere PowerTech™ Plus 6068H
Displacement	6.8 L (414 cu. in.)
Engine Output	167 kW (224 hp) at 1,700 rpm
Torque	984.7 N-m (729 ft.-lb.) at 1,400 rpm
Transmission Type	Countershaft-type PowerShift™
Differential Type, Front and Rear	Hydraulic locking front with conventional rear — standard; dual locking front and rear — optional
Tire Size, Standard	Michelin 23.5 R 25, 1 Star L-3
Service Brake, Type and Actuation	Hydraulically actuated, spring retracted, self-adjusting, inboard sunshaft mounted, oil cooled, single disc
Parking Brake, Type	Automatic spring applied, hydraulically released, driveline mounted, oil cooled, multi-disc
Dimensions	

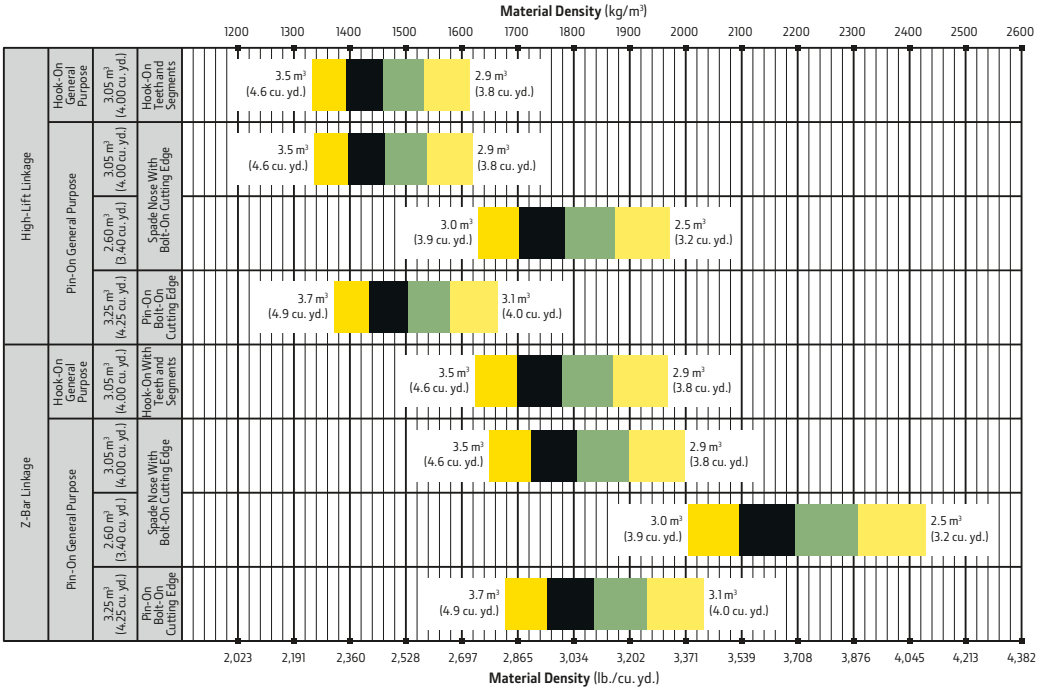


644 P-TIER Z-BAR / HIGH-LIFT LOADERS

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 WHEEL LOADER SPECIFICATIONS

Dimensions *(continued)*	644 P-TIER Z-BAR / HIGH-LIFT
A Wheelbase	3.26 m (10 ft. 8 in.)
B Height, Over Cab	3.40 m (11 ft. 2 in.)
C Ground Clearance	408 mm (16.1 in.)
Width Over Tires	2875 mm (113.2 in.)
D Height, Pivot Pin	4.11 m (13 ft. 6 in.)
E Reach at 2130-mm (83.9 in.)/ 45-deg. Dump	1.64 m (5 ft. 5 in.)
Capacities	
Fuel Tank	352 L (93 gal.)
Heaped Capacity	3.25 m^3 (4.25 cu. yd.)
Breakout, Bucket	15 474 kg (34,113 lb.)
Pump	
Type	Variable-displacement, axial-piston pump; closed-center, pressure-compensating system
Flow	311 L/min. (83 gpm)
Weights	
Operating Weight	18 283 kg (40,308 lb.)
Bucket Selection Guides	



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

Bucket Fill Factors

130% 115% 110% 105% 100% 95%

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