

724K/744K/824K/844K-II LOADERS

197–283 kW (264–380 hp)



JOHN DEERE





Nothing runs like a Deere, because nothing is built like one.

When you've got hungry hoppers or empty trucks depending on your loader, downtime is more than a downer. It's unacceptable. Boost your uptime (and your bottom line) with K-Series advantages such as solid-state electronics, highly efficient Quad-Cool™, advanced diagnostic monitors, and NeverGrease pin joints. You'll also benefit from traditional John Deere durability features such as heavy-duty wet-sleeve diesels, self-adjusting wet-disc brakes, four-plate loader towers, and double-tapered articulation-joint roller bearings. Plus, booms and mainframes so tough they're warranted for three years or 10,000 hours. When you know how they're built, you'll run a John Deere.



Large-capacity fuel tanks let you run longer between fill-ups. There's also a fast-fill option to get you back into the rat race more quickly.

You'll find fewer fuses, relays, connectors, and wiring harnesses. Instead, highly reliable circuit-board technology and sealed solid-state switches ensure the electrical integrity you need.


Heavy-duty axles with self-adjusting wet-disc brakes provide long life and sure stops. 744K, 824K, and 844K-II axles also employ cooling, filtration, and temperature monitoring to help increase durability.

Expansive air-inlet surfaces increase airflow and prevent overheating, while keeping the cooling cores debris free. Three-millimeter side-screen perforations serve as a "first filter."

Automatic park brake, bypass-start protection, continuous handrails, and wide slip-resistant steps and platforms help keep operators out of harm's way.

1. Quad-Cool design places coolers in a unique boxed configuration that's isolated from engine heat for increased efficiency and durability. Optional fan automatically reverses at predetermined intervals, or can be programmed through the monitor, to eject debris from the cores.
2. Bulkhead fittings eliminate long hoses, simplifying replacement and component exchange.
3. Our IT4/Stage IIIB technology is simple, fuel efficient, fully integrated, and fully supported. It employs field-proven cooled exhaust gas recirculation (EGR) for reducing NO_x, and a diesel particulate filter (DPF) and diesel oxidation catalyst (DOC) to reduce particulate matter. Periodic active and passive regeneration automatically cleans the filter without impacting machine productivity.





JDLink enables your dealer to utilize Service ADVISOR Remote to read diagnostic trouble codes, record machine performance data, and even update software without making a trip to the jobsite — a real time- and money-saver.

Large hinged service doors swing open wide for ample ground-level access. All daily servicing is done on the same side.

NeverGrease pin joints eliminate numerous zerks and the daily attention they demand. An exclusive K-Series option, they significantly reduce operating cost.

Maintenance personnel will appreciate the common-sense locations and ease with which powertrain, hydraulic, and cab filters are replaced. Common hydraulic and transmission fluid- and filter-change intervals further simplify service.

Coolers resist plugging, and both sides are easily accessible for cleaning. Hydraulically driven fan runs only as needed, reducing fuel consumption and debris flow through the cores.

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

IT4/Stage IIIB diesel particulate filter (DPF) is easily removed and can be serviced by your John Deere dealer.

The bucks stop here.

Servicing big iron doesn't have to be a big production. And it isn't on a K-Series. Swing open the large side shields and you'll see the many ways these loaders minimize maintenance. Our unique Quad-Cool system and swing-out fan provide wide-open access to both sides of the individually mounted coolers for simplified cleanout. Grouped same-side service points make quick work of the daily routine. Easy-to-read sight gauges, quick-change filters, extended service intervals, and advanced self-diagnostics — plus numerous other time- and money-saving features help make maintenance manageable.

844K-II

Engine	844K-II Z-BAR			
Manufacturer and Model	John Deere PowerTech™ PSX 6135	John Deere PowerTech™ Plus 6135H	John Deere PowerTech™ 6135H	
Non-Road Emission Standard	EPA Interim Tier 4/EU Stage IIIB	EPA Tier 3/EU Stage IIIA	EPA Tier 2/EU Stage II	
Cylinders	6	6	6	
Valves Per Cylinder	4	4	4	
Displacement	13.5 L (824 cu. in.)	13.5 L (824 cu. in.)	13.5 L (824 cu. in.)	
Net Peak Power (ISO 9249)	283 kW (380 hp) at 1,600 rpm	283 kW (380 hp) at 1,600 rpm	283 kW (380 hp) at 1,600 rpm	
Net Peak Torque (ISO 9249)	1793 Nm (1,323 lb.-ft.) at 900 rpm	1793 Nm (1,323 lb.-ft.) at 900 rpm	1793 Nm (1,323 lb.-ft.) at 900 rpm	
Net Torque Rise	44%	44%	44%	
Fuel System	Mechanically actuated electronic unit injectors	Mechanically actuated electronic unit injectors	Mechanically actuated electronic unit injectors	
Lubrication	Full-flow spin-on filter and integral cooler	Full-flow spin-on filter and integral cooler	Full-flow spin-on filter and integral cooler	
Aspiration	Series turbocharged, charge air cooled	Turbocharged, charge air cooled	Turbocharged, charge air cooled	
Air Cleaner	Dual-element dry type, restriction indicator in cab monitor for service	Dual-element dry type, restriction indicator in cab monitor for service	Dual-element dry type, restriction indicator in cab monitor for service	
Fan Drive	Hydraulically driven, proportionally controlled, fan aft of coolers	Hydraulically driven, proportionally controlled, fan aft of coolers	Hydraulically driven, proportionally controlled, fan aft of coolers	
Electrical System	24 volt with 100-amp (130-amp optional) alternator	24 volt with 100-amp alternator	24 volt with 100-amp alternator	
Batteries (2 – 12 volt)	1,400 CCA (each)	1,400 CCA (each)	1,400 CCA (each)	
Transmission System				
Type	Countershaft-type PowerShift™			
Torque Converter	Single stage, dual phase with freewheeling stator			
Shift Control	Electronically modulated, adaptive, load and speed dependent			
Operator Interface	Steering-column or joystick-mounted F-N-R and gear-select lever; quick-shift button on hydraulic lever			
Shift Modes	Manual/auto (1st–D or 2nd–D); quick-shift button with 2 selectable modes: kick-down or kick-up/down; and 3 adjustable clutch-cutoff settings			
	Standard 5-Speed with Lockup Torque Converter		Optional 4-Speed	
Maximum Travel Speeds (with 29.5 R 25, 1 Star L3 tires)	Forward	Reverse	Forward	Reverse
Range 1	7.9 km/h (4.9 mph)	7.9 km/h (4.9 mph)	6.6 km/h (4.1 mph)	6.6 km/h (4.1 mph)
Range 2	13.5 km/h (8.4 mph)	13.1 km/h (8.1 mph)	12.2 km/h (7.6 mph)	12.2 km/h (7.6 mph)
Range 3	20.9 km/h (13.0 mph)	30.7 km/h (19.1 mph)	18.8 km/h (11.7 mph)	27.3 km/h (17.0 mph)
Range 4	30.7 km/h (19.1 mph)	N/A	40.5 km/h (25.2 mph)	N/A
Range 5	40.0 km/h (24.9 mph)	N/A	N/A	N/A
Axles/Brakes				
Final Drives	Heavy-duty mid-board planetary			
Differentials	Hydraulic locking front with conventional rear – standard; dual locking front and rear – optional			
Rear Axle Oscillation, Stop to Stop (with 29.5 R 25, 1 Star L3 tires)	26 deg. (13 deg. each direction)			
Service Brakes (conform to ISO 3450)	Outboard, forced oil cooled, multi disc			
Parking Brakes (conform to ISO 3450)	Automatic spring applied, hydraulically released, sealed wet multi disc			
Tires/Wheels (see page 32 for complete tire adjustments)				
	Tread Width		Width Over Tires	
Bridgestone 875/65R29, 1 Star L-3	2440 mm (96.1 in.)		3420 mm (134.6 in.)	
Serviceability				
Refill Capacities	EPA IT4/EU Stage IIIB	EPA Tier 3/EU Stage IIIA	EPA Tier 2/EU Stage II	
Fuel Tank (with ground-level fueling)	559 L (148 gal.)	553 L (146 gal.)	553 L (146 gal.)	
Cooling System	74.9 L (79.1 qt.)	52.4 L (55.4 qt.)	52.4 L (55.4 qt.)	
Engine Oil with Vertical Spin-On Filter	40 L (40 qt.)	36 L (38 qt.)	36 L (38 qt.)	
Transmission Fluid with Vertical Filter	28 L (29.5 qt.)	28 L (29.5 qt.)	28 L (29.5 qt.)	
Axle Oil (front and rear, each)	68 L (72 qt.)	68 L (72 qt.)	68 L (72 qt.)	
Hydraulic Reservoir and Filter	242 L (64 gal.)	242 L (64 gal.)	242 L (64 gal.)	
Park Brake Oil (wet disc)	0.7 L (24 oz.)	0.7 L (24 oz.)	0.7 L (24 oz.)	
Hydraulic System/Steering				
Pump (loader and steering)	2 variable-displacement, load-sensing axial-piston pumps; closed-center system			
Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,350 rpm	621 L/m (164 gpm)			
System Relief Pressure (loader and steering)	24 132 kPa (3,500 psi)			
Loader Controls	2-function valve; single- or dual-lever controls; control lever lockout feature; optional 3rd- and 4th-function valve with auxiliary levers			
Steering (conforms to ISO 5010)				
Type	Power, fully hydraulic; single-lever control and adjustable wristrest with conventional steering wheel override			
Articulation Angle	80-deg. arc (40 deg. each direction)			
Turning Radius (measured to centerline of outside tire)	6.30 m (20 ft. 8 in.)			

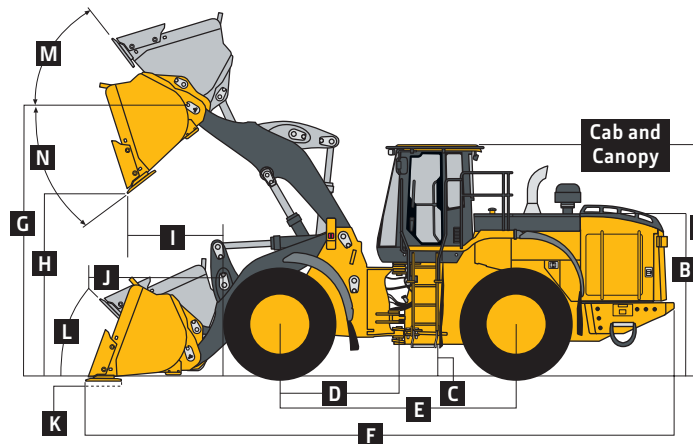


Hydraulic System/Steering (continued)

844K-II Z-BAR

Hydraulic Cycle Times	Z-Bar
Raise	5.9 sec.
Dump	1.9 sec.
Lower (float down)	3.5 sec.
Total	11.3 sec.

Dimensions and Specifications with Pin-On Bucket



844K-II Z-BAR LOADER WITH PIN-ON BUCKET

	Z-Bar	Z-Bar	Z-Bar	Z-Bar	Z-Bar	Z-Bar
Dimensions with Bucket	<i>5.5-m³ (7.25 cu. yd.) general-purpose with bolt-on edge, without wear inserts</i>	<i>5.5-m³ (7.25 cu. yd.) general-purpose with bolt-on edge and wear inserts</i>	<i>6.2-m³ (8.1 cu. yd.) light-material with bolt-on edge and optional spillguard,* without wear inserts</i>	<i>6.2-m³ (8.1 cu. yd.) light-material with bolt-on edge, optional spillguard,* and wear inserts</i>	<i>4.8-m³ (6.3 cu. yd.) spade-nose rock with teeth, segments, spillguard, and wear inserts</i>	<i>4.8-m³ (6.3 cu. yd.) spade-nose rock with bolt-on edge, spillguard, and wear inserts</i>
A Height to Top of Cab and Canopy	3.76 m (12 ft. 4 in.)	3.76 m (12 ft. 4 in.)	3.76 m (12 ft. 4 in.)	3.76 m (12 ft. 4 in.)	3.76 m (12 ft. 4 in.)	3.76 m (12 ft. 4 in.)
B Hood Height	2.74 m (9 ft. 0 in.)	2.74 m (9 ft. 0 in.)	2.74 m (9 ft. 0 in.)	2.74 m (9 ft. 0 in.)	2.74 m (9 ft. 0 in.)	2.74 m (9 ft. 0 in.)
C Ground Clearance	463 mm (18.2 in.)	463 mm (18.2 in.)	463 mm (18.2 in.)	463 mm (18.2 in.)	463 mm (18.2 in.)	463 mm (18.2 in.)
D Length from Centerline to Front Axle	1.85 m (6 ft. 1 in.)	1.85 m (6 ft. 1 in.)	1.85 m (6 ft. 1 in.)	1.85 m (6 ft. 1 in.)	1.85 m (6 ft. 1 in.)	1.85 m (6 ft. 1 in.)
E Wheelbase	3.70 m (12 ft. 2 in.)	3.70 m (12 ft. 2 in.)	3.70 m (12 ft. 2 in.)	3.70 m (12 ft. 2 in.)	3.70 m (12 ft. 2 in.)	3.70 m (12 ft. 2 in.)
F Overall Length, Bucket on Ground	9.65 m (31 ft. 8 in.)	9.65 m (31 ft. 8 in.)	9.72 m (31 ft. 11 in.)	9.72 m (31 ft. 11 in.)	10.06 m (33 ft. 0 in.)	9.83 m (32 ft. 3 in.)
G Height to Hinge Pin, Fully Raised	4.62 m (15 ft. 2 in.)	4.62 m (15 ft. 2 in.)	4.62 m (15 ft. 2 in.)	4.62 m (15 ft. 2 in.)	4.62 m (15 ft. 2 in.)	4.62 m (15 ft. 2 in.)
H Dump Clearance, 45 deg., Full Height	3.32 m (10 ft. 11 in.)	3.32 m (10 ft. 11 in.)	3.27 m (10 ft. 9 in.)	3.27 m (10 ft. 9 in.)	3.05 m (10 ft. 0 in.)	3.21 m (10 ft. 6 in.)
I Reach, 45-deg. Dump, Full Height	1.49 m (4 ft. 11 in.)	1.49 m (4 ft. 11 in.)	1.54 m (5 ft. 1 in.)	1.54 m (5 ft. 1 in.)	1.80 m (5 ft. 11 in.)	1.64 m (5 ft. 4 in.)
J Reach, 45-deg. Dump, 2.13-m (7 ft. 0 in.) Clearance	2.28 m (7 ft. 6 in.)	2.28 m (7 ft. 6 in.)	2.31 m (7 ft. 7 in.)	2.31 m (7 ft. 7 in.)	2.47 m (8 ft. 1 in.)	2.38 m (7 ft. 10 in.)
K Maximum Digging Depth	93 mm (3.7 in.)	93 mm (3.7 in.)	93 mm (3.7 in.)	93 mm (3.7 in.)	93 mm (3.7 in.)	93 mm (3.7 in.)
L Maximum Rollback at Ground Level	40.5 deg.	40.5 deg.	40.5 deg.	40.5 deg.	40.5 deg.	40.5 deg.
M Maximum Rollback, Boom Fully Raised	56.3 deg.	56.3 deg.	56.3 deg.	56.3 deg.	56.3 deg.	56.3 deg.
N Maximum Bucket Dump Angle, Fully Raised	55.2 deg.	55.2 deg.	55.2 deg.	55.2 deg.	55.2 deg.	55.2 deg.
Loader Clearance Circle, Bucket Carry Position	15.92 m (52 ft. 3 in.)	15.92 m (52 ft. 3 in.)	15.97 m (52 ft. 5 in.)	15.97 m (52 ft. 5 in.)	15.89 m (52 ft. 2 in.)	15.86 m (52 ft. 0 in.)
Specifications with Bucket						
Capacity, Heaped	5.5 m ³ (7.25 cu. yd.)	5.5 m ³ (7.25 cu. yd.)	6.2 m ³ (8.1 cu. yd.)	6.2 m ³ (8.1 cu. yd.)	4.8 m ³ (6.3 cu. yd.)	4.8 m ³ (6.3 cu. yd.)
Capacity, Struck	4.7 m ³ (6.2 cu. yd.)	4.7 m ³ (6.2 cu. yd.)	5.6 m ³ (7.3 cu. yd.)	5.6 m ³ (7.3 cu. yd.)	4.1 m ³ (5.4 cu. yd.)	4.1 m ³ (5.4 cu. yd.)
Bucket Weight with Bolt-On Cutting Edge	3515 kg (7,748 lb.)	3759 kg (8,288 lb.)	3741 kg (8,247 lb.)	3998 kg (8,813 lb.)	4260 kg (9,392 lb.)	4124 kg (9,092 lb.)
Bucket Width	3.46 m (11 ft. 4 in.)	3.46 m (11 ft. 4 in.)	3.46 m (11 ft. 4 in.)	3.46 m (11 ft. 4 in.)	3.49 m (11 ft. 6 in.)	3.49 m (11 ft. 6 in.)
Breakout Force	21 674 kg (47,782 lb.)	21 568 kg (47,549 lb.)	20 550 kg (45,305 lb.)	20 449 kg (45,083 lb.)	16 680 kg (41,183 lb.)	19 222 kg (42,376 lb.)
Tipping Load, Straight	25 697 kg (56,651 lb.)	25 399 kg (55,996 lb.)	25 223 kg (55,607 lb.)	24 941 kg (54,985 lb.)	24 933 kg (54,968 lb.)	25 118 kg (55,376 lb.)
Tipping Load, 40-deg. Full Turn	22 094 kg (48,708 lb.)	21 796 kg (48,053 lb.)	21 656 kg (47,743 lb.)	21 374 kg (47,122 lb.)	21 312 kg (46,984 lb.)	21 497 kg (47,392 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load (conforms to ISO 14397-1)*	11 047 kg (24,354 lb.)	10 898 kg (24,026 lb.)	10 828 kg (23,872 lb.)	10 687 kg (23,561 lb.)	10 656 kg (23,492 lb.)	10 748 kg (23,696 lb.)
Operating Weight	34 152 kg (75,292 lb.)	34 431 kg (75,906 lb.)	34 384 kg (75,804 lb.)	34 646 kg (76,382 lb.)	34 905 kg (76,953 lb.)	34 776 kg (76,668 lb.)

Loader operating information is based on machine with identified linkage and standard equipment, PowerTech PSX 6135 (EPA Interim Tier 4/EU Stage IIIB) 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.

Adjustments to Operating Weights and Tipping Loads with Buckets

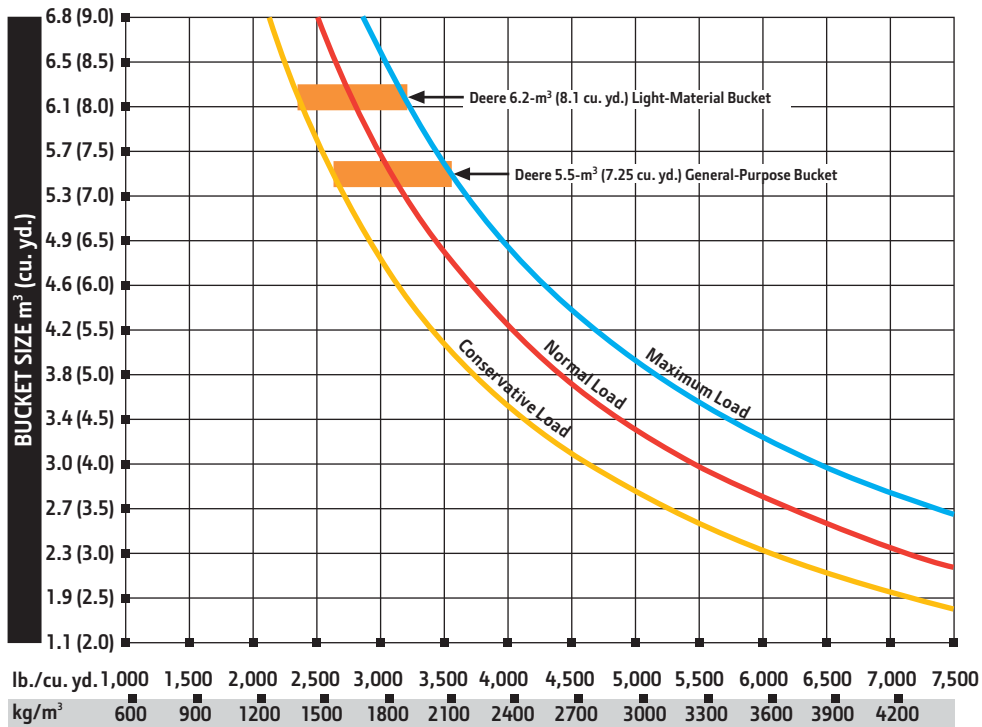
844K-II Z-BAR

Adjustments to operating weights, tipping loads, and tires are based on Z-bar machine with pin-on 5.5-m³ (5.25 cu. yd.) general-purpose bucket with bolt-on cutting edge, ROPS cab, rear cast bumper/counterweight, transmission side-frame guards, bottom guards, standard tires, full fuel tank, and 79-kg (175 lb.) operator*

Add (+) or deduct (–) kg (lb.) as indicated for loaders with 3-piece rims	Operating Weight	Tipping Load, Straight	Tipping Load, 40- deg. Full Turn SAE	Tread Width	Width Over Tires	Vertical Height
John Deere PowerTech PSX 6135	0 kg (0 lb.)	0 kg (0 lb.)	0 kg (0 lb.)	N/A	N/A	N/A
John Deere PowerTech Plus 6135H	–90 kg (–198 lb.)	+59 kg (+130 lb.)	+30 kg (+66 lb.)	N/A	N/A	N/A
John Deere PowerTech 6135H	–90 kg (–198 lb.)	+59 kg (+130 lb.)	+30 kg (+66 lb.)	N/A	N/A	N/A
Bridgestone 875/65R29, 1 Star L-3 [§]	0 kg (0 lb.)	0 kg (0 lb.)	0 kg (0 lb.)	0 mm (0 in.)	0 mm (0 in.)	0 mm (0 in.)
Michelin 29.5 R 25, 1 Star L-3	–840 kg (–1,852 lb.)	–691 kg (–1,524 lb.)	–603 kg (–1,329 lb.)	0 mm (0 in.)	–110 mm (–4.3 in.)	–11 mm (–0.4 in.)
Titan 29.5 R 25, 1 Star L-3	–780 kg (–1,720 lb.)	–642 kg (–1,415 lb.)	–560 kg (–1,234 lb.)	0 mm (0 in.)	–122 mm (–4.8 in.)	–11 mm (–0.4 in.)
Bridgestone 29.5 R 25, 1 Star L-3	–724 kg (–1,596 lb.)	–596 kg (–1,314 lb.)	–519 kg (–1,145 lb.)	0 mm (0 in.)	–110 mm (–4.3 in.)	–6 mm (–0.2 in.)
Firestone 29.5-25, 28-Ply L-5	–348 kg (–767 lb.)	–286 kg (–631 lb.)	–250 kg (–550 lb.)	0 mm (0 in.)	–101 mm (–4.0 in.)	–22 mm (–0.9 in.)
Bridgestone 29.5 R 25, 1 Star L-5 [§]	+512 kg (+1,129 lb.)	+421 kg (+929 lb.)	+367 kg (+810 lb.)	0 mm (0 in.)	–99 mm (–3.9 in.)	+30 mm (+1.2 in.)
Michelin 29.5 R 25, 1 Star L-5 [§]	–32 kg (–71 lb.)	–26 kg (–58 lb.)	–23 kg (–51 lb.)	0 mm (0 in.)	–115 mm (–4.5 in.)	+10 mm (+0.4 in.)
Michelin 875/65R29, 1 Star L-3	–388 kg (–855 lb.)	–319 kg (–703 lb.)	–282 kg (–622 lb.)	0 mm (0 in.)	–12 mm (–0.5 in.)	–13 mm (–0.5 in.)

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

[§]Requires 8-deg. rear axle stops.



844K Z-BAR LOADER WITH PIN-ON BUCKET

LOOSE MATERIALS	kg/m ³ lb./cu. yd.	
Chips, pulpwood	288	486
Cinders (coal, ashes, clinkers)	673	1,134
Clay and gravel, dry	1602	2,700
Clay, compact, solid	1746	2,943
Clay, dry in lump loose	1009	1,701
Clay, excavated in water	1282	2,160
Coal, anthracite, broken, loose	865	1,458
Coal, bituminous, moderately wet	801	1,350
Earth, common loam, dry	1218	2,052
Earth, mud, packed	1843	3,105
Granite, broken	1538	2,592
Gypsum	2275	3,834
Limestone, coarse, sized	1570	2,646
Limestone, mixed sizes	1682	2,835
Limestone, pulverized or crushed	1362	2,295
Sand, damp	2083	3,510
Sand, dry	1762	2,970
Sand, voids, full of water	2083	3,510
Sandstone, quarried	1314	2,214
Shale, broken crushed	1362	2,295
Slag, furnace granulated	1955	3,294
Stone or gravel, 37.5 to 87.5-mm (1.5 to 3.5") size	1442	2,430
Stone or gravel, 18.75-mm (3/4") size	1602	2,700

*This guide, representing bucket sizes not necessarily manufactured by Deere, will help you in selecting proper bucket size for material density, loader configuration, and operating conditions. Optimum bucket size is determined after adding or subtracting all tipping load changes due to optional equipment. The "conservative load" line on this guide is recommended when operating in conditions such as soft ground and unlevel surfaces. The "maximum load" condition on this guide is sometimes utilized when operating on firm ground and level surfaces.

Additional equipment

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

724	744	824	844	Engine
●	●	●	●	Wet-sleeve cylinder liners
●	●	●	●	Programmable auto-idle and auto shutdown
●	●	●	●	Selected idle adjustment from 900–1,250 rpm
●	●	●	●	Starter protection
●	●	●	●	Automatic turbo cool-down/shutdown timer ¹
●	●	●	●	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 (recommended for cold starts below –12 deg. C [10 deg. F])
▲	▲	▲	▲	Engine-block heater (recommended for cold starts below –23 deg. C [–10 deg. F])
▲	▲	●	●	Centrifugal engine air pre-cleaner
Powertrain				
●	●	●	●	Programmable maximum high gear
●	●	●	●	Clutch calibration engaged from monitor
●	●	●	●	2,000-hour vertical spin-on transmission filter
●	●	●	●	Transmission diagnostic ports
●	●	●	●	5-speed transmission with lockup torque converter
▲	▲	▲	▲	4-speed transmission with non-lockup torque converter
●	●	●	▲	Front locking differential
▲	▲	▲	▲	Rear locking differential
▲	▲	▲	▲	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
●	●	●	●	Isolated from engine compartment
●	●	●	●	Integral engine oil cooler
●	●	●	●	Hydraulic oil cooler (oil to air)
●	●	●	●	Transmission oil cooler (oil to air)
●	●	●	●	Charge air cooler (air to air)
●	●	●	●	Coolant recovery tank
●	●	●	●	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
▲	▲	▲	▲	Corrosive-environment coolers
Hydraulics				
●	●	●	●	Automatic return-to-dig bucket positioner
●	●	●	●	In-cab adjustable automatic boom-height kickout/return to carry
●	●	●	●	Reservoir with sight gauge and fill strainer

724	744	824	844	Hydraulics (continued)
●	●	●	●	Hydraulic diagnostic ports
●	●	●	●	4,000-hour in-tank filter
▲	▲	▲	▲	2 function — joystick with F-N-R
▲	▲	▲	▲	2 function — joystick with steering column F-N-R
●	●	●	●	2 function — 2-lever fingertip controls and steering column F-N-R
▲	▲	▲	▲	3 function — joystick with F-N-R and 3rd-function auxiliary lever
▲	▲	▲	▲	3 function — joystick with steering column F-N-R and 3rd-function auxiliary lever
▲	▲	▲	▲	3 function — 3-lever fingertip controls and steering column F-N-R
▲				4 function — 4-lever fingertip controls and steering column F-N-R
●	●	●	●	Ride control, automatic with monitor-adjustable speed settings
▲	▲	▲	▲	Hydraulic control system for quick-coupler locking pins
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
●	●	●	●	By-pass start safety cover at starter
●	●	●	●	Pre-wired for beacon/strobe light
●	●	●	●	Lights: Halogen driving lights with guards (2) / Front (4) and rear (2) cab work lights (724K) / Front (4), rear cab (2), and rear grille (2) work lights (744K, 824K, and 844K-II) / Turn signals and flashers (724K, 744K, and 824K) / LED stop- and taillights
▲	▲	▲	●	Heavy-duty LED turn signal and marker lights
▲	▲	▲	▲	Premium LED work, drive, and marker lights
●	●	●	●	Programmable courtesy lights
●	●	●	●	Horn, electric
●	●	●	●	Reverse warning alarm
●	●	●	●	Multi-function/multi-language 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, speedometer, odometer, and outside temperature)
●	●	●	●	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
▲	▲	▲	▲	AM/FM/weather-band radio with CD player
●	●	●	●	24- to 12-volt, 8-amp converter

¹Available only with EPA Interim Tier 4/EU Stage IIIB engines.

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Additional equipment

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

724	744	824	844	Operator's Station
●	●	●	●	Quiet Cab with air conditioning/heater
●	●	●	●	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 back and headrest extension, heated, leather/fabric cover, and adjustable air suspension
●	●	●	●	Hydraulic controls integrated to seat
●	●	●	●	High-visibility, bright-orange seat belt, 76 mm (3 in.), with retractor
●	●	●	●	Cup holders (2)
●	●	●	●	Lunch-box/cooler holder
●	●	●	●	Dome and reading light (included with Quiet Cab)
●	●	●	●	12-volt power port
●	●	●	●	Rubber floor mat
●	●	●	●	Tilt steering column
●	●	●	●	Operator's manual storage compartment
●				Outside (2) and inside (1) rearview mirrors
	●	●	●	Outside (2) and inside (2) rearview mirrors
▲	▲	▲	▲	Large heated outside mirrors
●	●	●	●	Left-side operator-station access
●	●	●	●	Slip-resistant steps and ergonomic handholds
●	●	●	●	Sun visor (Quiet Cab only)
●	●	●	●	Radio ready (Quiet Cab only)
●	●	●	●	Front and rear intermittent windshield wiper and washers
▲	▲	▲	▲	Powered cab air pre-cleaner
▲	▲	▲	▲	Beacon bracket
▲	▲	▲	▲	Rear camera and radar object-detection system
▲	▲	▲	▲	Embedded payload scale
▲	▲	▲	▲	Fire extinguisher
Loader Linkage				
●	●	●	●	Z-bar loader linkage
▲	▲	▲		High-Lift Z-bar loader linkage
Buckets and Attachments				
▲	▲	▲	▲	Full line of Deere pin-on buckets
▲				Hi-Vis hydraulic coupler which accepts Euro-pattern attachments (Volvo)
▲				Full line of Deere hook-on buckets and forks
	▲	▲	▲	Bolt-on bucket spill guard
▲				Bolt-on fork frame guard

724	744	824	844	Overall Vehicle
●	●	●	●	JDLINK™ Ultimate wireless communication system (available in specific countries; see your dealer for details)
●	●	●		NeverGrease™ rear-axle oscillation
●	●	●	●	NeverGrease steering-cylinder joints
			●	Bushed pin joints (including static joints on bucket and steering cylinders)
●	●	●	●	Front and rear tie-downs (844K-II includes mid tie-downs)
●	●	●	●	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
●	●	●	●	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
●				23.5R25 tires on 3-piece rims
▲				23.5R25 tires on 5-piece rims
	●	●		26.5R25 tires on 5-piece rims
		▲	●	29.5R25 tires on 5-piece rims
▲	▲	▲	▲	Waste handler (Z-bar and High-Lift)
▲	▲	▲	▲	NeverGrease linkage (Z-bar and High-Lift)
●	●	●	●	Level 1 sound package
▲	▲	●	●	Level 2 sound package
▲	▲	●	●	Transmission side-frame and bottom guards
▲	▲	▲	▲	Fast-fuel system
▲	▲	▲	▲	Quick fluid service (engine, transmission, hydraulic oils, and engine coolant)
▲	▲	▲	▲	Fenders, full-coverage, front
▲	▲	▲	▲	Fenders, full-coverage, front and rear
▲	▲			Less wheels and tires with axle stops
▲	▲			Rims less tires
▲	●	●	●	Lift eyes
▲	▲	▲	▲	License-plate bracket and light
▲	▲	▲	▲	Special guarding for waste and forestry applications

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