### 744K-II/824K-II/844K-II LOADERS 226–283 kW (303–380 hp)







## Productivity inspired.

Serious productivity demands serious thinking. Many of the numerous advantages of the 744K-II, 824K-II, and 844K-II came from the brightest minds in the industry — our Customer Advocate Group. Armed with insights from loader owners and users like you, we equipped these productive material movers with larger new higher-capacity axles with standard axle cooling and filtration for heavy-duty maneuverability in the most demanding terrain. Self-adjusting wet-disc brakes for extended wear life and sure stops. Advanced onboard diagnostics with pushbutton customization of machine operation and response. All to help increase productivity and uptime, while lowering daily operating costs. Owners, operators, and maintenance personnel will benefit from the big ideas found in these loaders. To learn how, read on. Then talk to your John Deere dealer.

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1	Specifications	744K-II	824K-II	844K-II
	Net Peak Power			
í.	EPA Final Tier 4 (FT4)/EU Stage IV	226 kW (303 hp)	248 kW (333 hp)	281 kW (377 hp)
	EPA Tier 3/EU Stage IIIA and EPA Tier 2/EU Stage II	227 kW (304 hp)	248 kW (333 hp)	283 kW (380 hp)
No. an	Bucket Capacity	4.0–4.4 m³ (5.25–5.75 cu. yd.)	4.6–5.2 m³ (6.0–6.75 cu. yd.)	4.8–6.2 m³ (6.3–8.1 cu. yd.)
ř.	Z-Bar:			
	Tipping Load, 40-deg. Full Turn, No Tire Deflection	17 137 kg (37,782 lb.)	17 551 kg (38,693 lb.)	21 816 kg (48,096 lb.)
	Breakout Force	19 416 kg (42,805 lb.)	18 718 kg (41,266 lb.)	21 674 kg (47,782 lb.)
-	Operating Weight	25 358 kg (55,905 lb.)	26 880 kg (59,260 lb.)	34 207 kg (75,413 lb.)

Fluid-efficient Deere PowerTech<sup>™</sup> diesels provide generous displacement, power, and lugging ability.

Unsurpassed powertrain and hydraulic performance helps maintain quick ground speed and boom lift, even on steep ramps. For faster cycles. Torque reserves are impressive, topping out at 57 percent in the 824K-II. It's a K Series-II advantage that helps maintain good boom and bucket speed in and out of the pile. For heaped loads, even in wet or hard-packed material.

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Low center of gravity and optimized fore-and-aft balance deliver impressive stability and full-turn tipping-load capacities.

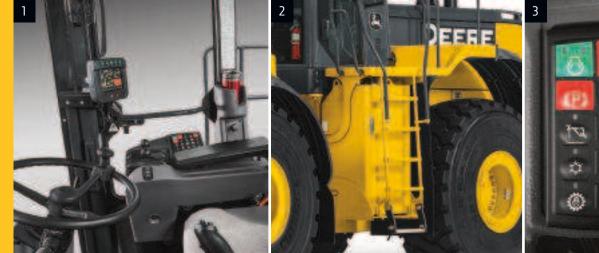
Ultimate Uptime, featuring John Deere WorkSight<sup>™</sup>, is a customizable support solution available exclusively from your Deere dealer. This flexible offering maximizes equipment availability with standard John Deere WorkSight capabilities that can help prevent downtime and speed repairs when it does occur. In addition to the base John Deere WorkSight features, our dealers work with you to build an uptime package that meets the specific needs of your machine, fleet, project, and business, including customized maintenance and repair agreements, onsite parts availability, extended warranties, fluid sampling, responsetime guarantees, and more.

## Expand your operator's comfort zone.

What operator wouldn't be more productive in the high-back airride seat of a K Series-II Loader? An enhanced multifunction monitor displays operating, diagnostic, and maintenance info on a color LCD screen with easy-on-the-eyes clarity. Expansive tinted front glass and a low-profile console provide a commanding view of the work ahead. The quiet and spacious cab boasts generous legroom and exceptional ergonomics including fatigue-beating features like seat-mounted loader controls. And an expanded sealed-switch module with keyless start and easy pushbutton operation of even more functions.

- Spacious front glass, low-profile console, and large side and rear windows allow for 360-deg. visibility.
- 2. Platforms, handrails, and steps allow uninterrupted three-point access. There are no crossbars, decreasing the risk of slipping.
- Keyless start allows up to 10 operator-specific standard security codes to help prevent unauthorized machine operation. Mobile JDLink<sup>™</sup> Ultimate app enables owners to keep tabs on machine location and alerts via iPhone, iPad, or Android devices.







Available premium high/wide-back heated air-suspension seat adjusts multiple ways, for daylong comfort and support.

Joystick steering and hydraulic levers are within easy reach and move with the operator, for more control with less fatigue. Automotive-style directional louvers provide effective airflow to help keep the glass clear and pressurized cab comfortable.

Front and rear work lights stay on for up to three minutes after the engine is shut down, illuminating the way for an easier exit. You'll find plenty of places to stow a coffee cup, cooler, and other items. Standard eight-amp converter (15 and 30 amp are optional) and a 12-volt outlet provide convenient power for cell phones and other electronic devices.

# Get in touch with your productive side.

If you want to get a handle on increased productivity, put your operator behind the controls of a K Series-II Loader. Its enhanced multifunction LCD color monitor provides a wealth of machine info. And enables an operator to customize machine operation and response, weigh each bucket load, and view the action out back — all at the push of a button.

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Multi-language color LCD monitor provides pushbutton access to a wealth of machine info and control:

- 1. Vital and general operating information, including transmission mode, gear, engine rpm, and ground speed.
- Exclusive integrated tire monitoring reports pressures and temperatures on the monitor and remotely through JDLink Ultimate, to help reduce tire wear and replacement cost.
- 3. Customized machine settings such as Quick Shift, Auto-to-1st, and Ride Control. So you can match operating characteristics to specific jobs and conditions.

Programmable clutch cutoff increases productivity in all kinds of conditions. Engaging the brakes disconnects the transmission while maintaining high engine speed. For smooth dumps, fast cycles, and no machine rollback.

Boom-height kick-out sets maximum desired dump height, while return-tocarry determines lowered-boom position. Use these two K Series-II advantages to speed production in repetitive loading applications.

Optional rearview camera provides "eyesin-the-back-of-the-head" visibility. And rear-object-detection radar gives an audible alert of approaching objects. It's a "must-have" for high-traffic jobsites.

Exhaust filter operation and maintenance status are indicated with warning lights and on-screen displays. Periodic active and passive regeneration automatically clean the filter without impacting machine productivity.



# Hard work was never this easy.

Big productivity shouldn't require a lot of extra effort. And it won't on a K Series-II Loader. John Deere PowerTech diesels provide impressive acceleration and torque, along with the horsepower needed for fast and full bucket fills. Larger, higher-capacity axles help tackle the toughest terrain. Generous hydraulic flow provides excellent low-engine-speed performance and quick steering response and boom-up speed. Combined with load-sensing closed-center hydraulics, low-effort controls, and smooth-shifting PowerShift<sup>™</sup> transmission, maximum productivity comes naturally. To "weigh in" on which K Series-II Loader is right for your operation, see your John Deere dealer. Larger new higher-capacity axles provide heavy-duty maneuverability in the most demanding terrain.

Standard five-speed transmission with torque-converter lockup in gears 2–5 increases acceleration, speeds cycles, and optimizes power and fuel efficiency during transport, roading, and ramp climbing.

Responsive steering combines with full 80-deg. articulation for exceptional maneuverability in tight quarters and faster cycle times.

Load-sensing closed-center hydraulics deliver only the power required for smooth boom and bucket functions. So there's no wasted power or fuel.

- Ride control smoothes travel, allowing these loaders to navigate jobsites more quickly without losing their loads. Auto-actuation travel speed is operator settable between 1.5 and 24.0 km/h (0.5 and 15 mph).
- Joystick steering offers fatiguebeating comfort and is ideal for V-pattern truck loading. Standard on the 844K-II and available on the 744K-II and 824K-II, it adapts to ground speed to deliver smooth low-effort control. Even during load-and-carry operations.
- 3. Choose either single-lever joystick or two-lever fingertip pilot-operated hydraulic controls. Joystick version is equipped with an F-N-R selector for convenient direction and fullrange gear changes. Both include our innovative Quick-Shift feature for pushbutton gear changes, one gear at a time.





## Explore your options.

Standard equipped with plenty of production-enhancing features, K Series-II Loaders can handle almost anything. But if yours isn't just any application, we've got you covered with a wide variety of factory- or dealer-installed options. Work in a high-debris, extreme-temperature, or corrosive environment? Or emissions-sensitive nonattainment areas? Need a High-Lift boom or long-life cutting edges to help maximize productivity and minimize costs? We can equip your loader with exactly what you need for your kind of work.

 Spin control boosts productivity in loose material or troublesome ground conditions. Available automatic differential lock engages as soon as a tire begins to slip to help improve traction. 2. Axle choices include manually actuated front differential lock with conventional rear axle, front and rear differential locks, or automatic front and rear differential locks. Open differentials are available on the 844K-II only, for applications not requiring increased traction. 3. LOADRITE™ L2180™ is fully integrated with the JDLink Ultimate telematics system — part of the John Deere WorkSight suite of businessoptimization solutions. This gives instant access to production information including total bucket loads, trucks loaded, and totals by material, in addition to other JDLink data, to help increase loading efficiency and track material movement for improved profitability.

High-Lift loaders feature an optional factoryinstalled boom that extends boom height so you can move materials and push productivity to even greater heights.

Corrosion package shields electrical components and connections for longer life — so corrosion won't short-circuit productivity.

Powered cab pre-cleaner extends cab air-filter life when working in airborne debris.

Heated mirrors prevent fog and ice from obstructing the view and affecting productivity.

Want to increase the traction, flotation, and stability of your 844K-II? Spec the low-profile tire option.

Advanced air-screen kits protect the engine and cooling system from debris while increasing airflow and preventing overheating.



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## 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-II advantages such as solid-state electronics, highly efficient Quad-Cool<sup>™</sup>, and advanced diagnostic monitors. You'll also benefit from traditional John Deere durability features such as new larger-capacity axles, 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 Deere.

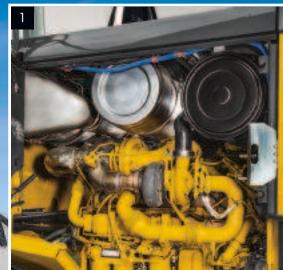


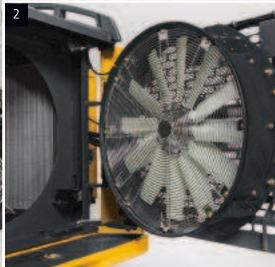
Large-capacity fuel tanks let you run longer between fill-ups. There's also a fast-fill option to get you back into the rat race more quickly. Three-millimeter side-screen perforations act as a "first filter" to catch airborne debris and prevent overheating. Automatic park brake, bypass-start protection, continuous handrails, and wide slip-resistant steps and platforms help keep operators out of harm's way.

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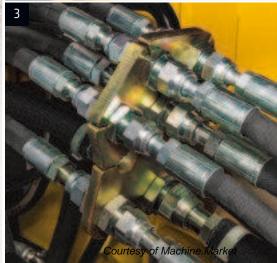
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- Our FT4/Stage IV diesels meet emission regulations without sacrificing power or torque. We built on our Interim Tier 4 (IT4)/Stage IIIB solution to deliver the best combination of performance, efficiency, and reliability. This technology is simple, fluid efficient, fully integrated, and fully supported. It employs field-proven cooled exhaust gas recirculation (EGR), easy-tomaintain high-uptime exhaust filters, and selective catalytic reduction (SCR).
- 2. Quad-Cool design places coolers in a unique boxed configuration that's isolated from engine heat, for increased efficiency and durability. Hydraulic reversing fan (standard on the 844K-II, optional on the 824K-II and 744K-II) automatically reverses at predetermined intervals, or can be programmed through the monitor, to eject debris from the cores.
- Bulkhead fittings eliminate long hoses, simplifying replacement and component exchange.





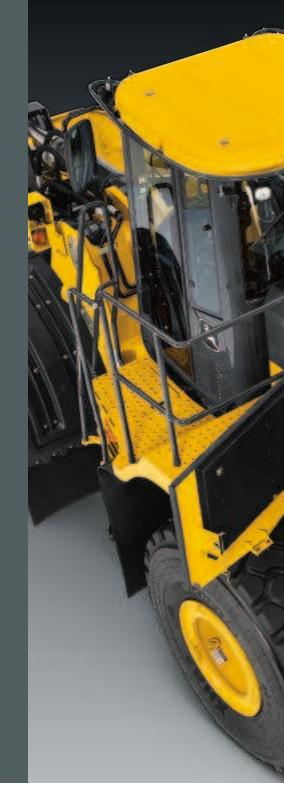
You'll find fewer fuses, relays, connectors, and wiring harnesses. Instead, highly reliable circuit-board technology and sealed solid-state switches ensure the electrical integrity you need. Larger new higher-capacity heavyduty axles with standard axle cooling and filtration increase durability in your demanding conditions. Selfadjusting wet-disc brakes provide long life and sure stops.

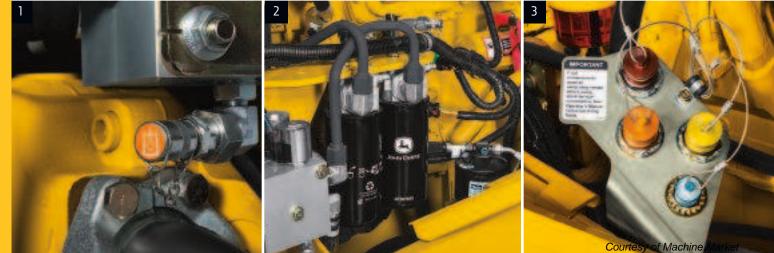


# The buck stops here.

Servicing big iron doesn't have to be a big production. And it isn't on a K Series-II. 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.

- Color-coded fluid-sample and diagnostic test ports help speed preventive maintenance and troubleshooting. Noninvasive design helps prevent contamination.
- 2. Vertical spin-on engine, transmission, and in-tank hydraulic filters; quick-release fuel filters; and environmentally friendly fluid drains allow quick, no-spill changes.
- **3.** 500-, 2,000-, and 4,000-hour engine, transmission, and hydraulic oil and filter intervals decrease planned downtime and expense. Available quick fluid-evacuation system helps speed servicing.
- **4.** If something goes wrong, the easyto-navigate LCD monitor displays diagnostic messages and offers possible solutions to help you get back up and running quickly.





John Deere WorkSight is an exclusive suite of telematic solutions that increases uptime while lowering operating costs. At its heart, JDLink Ultimate machine monitoring provides real-time data and health prognostics to suggest maintenance solutions that decrease costly downtime. Remote diagnostics enable your dealer to read codes, record performance data, and even update software without a trip to the jobsite.



Auto-idle automatically applies the brakes and reduces engine speed to help conserve fuel after an operatordetermined period of inactivity. Auto shutdown turns off the engine after an extended period of inactivity. Maintenance personnel will appreciate the practical locations and ease with which powertrain, hydraulic, and cab filters are replaced. Common hydraulic and transmission fluid- and filter-change intervals further simplify service.

### 744K-II

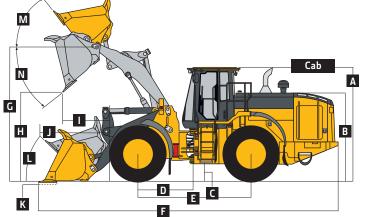
Engine	744K-II Z-BAR / HIGH-LIFT			
Manufacturer and Model	John Deere PowerTech™ PSS 6090	John Deere PowerTech™ Plus (	6090H John Deere PowerTech™ 60	090H
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV	EPA Tier 3/EU Stage IIIA	EPA Tier 2/EU Stage II	
Cylinders	6	6	6	
Valves per Cylinder	4	4	4	
Displacement	9.0 L (548 cu. in.)	9.0 L (548 cu. in.)	9.0 L (548 cu. in.)	
Net Peak Power (ISO 9249)	226 kW (303 hp) at 1,500 rpm	227 kW (304 hp) at 1,500 rpm		'nm
Net Peak Torque (ISO 9249)	1455 Nm (1,073 lbft.) at 1,500 rpm			
Net Torque Rise	50%	47%	47%	.,
Fuel System (electronically controlled)	High-pressure common rail	High-pressure common rail	High-pressure common rail	1
Lubrication	Full-flow spin-on filter and integral	Full-flow spin-on filter and int		
Labrication	cooler	cooler	cooler	integra
Aspiration	Series turbocharged, charge air coole			ooled
Air Cleaner	Under-hood, dual-element dry type,	Under-hood, dual-element dry		
	restriction indicator in cab monitor	restriction indicator in cab mo		
	for service	for service	for service	monito
Cooling				
Fan Drive	Hydraulically driven, proportionally	Hydraulically driven, proportio	onally Hydraulically driven, propo	rtionall
	controlled, fan aft of coolers	controlled, fan aft of coolers	controlled, fan aft of coole	
Electrical				
Electrical System	24 volt with 130-amp alternator	24 volt with 100-amp alternat	tor 24 volt with 100-amp alter	nator
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 freewh	eeling stator		
Shift Control	Electronically modulated, adaptive, l			
Operator Interface	Steering-column or joystick-mounte		ck-shift button on bydraulic lever	
Shift Modes			modes: kick-down or kick-up/down; an	ibe E be
Shirt Modes	able clutch-cutoff settings; change t			iu 5 auji
	Standard 5-Speed with Lockup Torq			
Maximum Travel Speeds (with 26.5 R 25, 1 Star L3 tires)	Forward Revers	,	Reverse	
Range 1			(4.1 mph) 6.6 km/h (4.1 mp	h)
Range 2			h (8.6 mph) 13.8 km/h (8.6 m	
Range 3			h (12.9 mph) 29.9 km/h (18.6 i	
				iiipii)
Range 4	32.2 km/h (20.0 mph) N/A		h (24.9 mph) N/A	
Range 5	40.0 km/h (24.9 mph) N/A	N/A	N/A	
Axles/Brakes				
Final Drives	Heavy-duty inboard-mounted planet			
Differentials	Hydraulic locking front with convent	ionai rear — standard; dual locking	g front and rear – optional	
Rear Axle Oscillation, Stop to Stop (with 26.5 R 25,	26 deg. (13 deg. each direction)			
1 Star L3 tires)				
Service Brakes (conform to ISO 3450)	Hydraulically actuated, spring releas			
Parking Brakes (conform to ISO 3450)	Automatic spring applied, hydraulica	lly released, oil cooled, multi disc		
Tires/Wheels (see page 18 for complete tire adjustments)	<b>T</b> 1949 64			
	Tread Width	Width Over Tires		
Michelin 26.5 R 25, 2 Star L3	2298 mm (90.5 in.)	3084 mm (121.4 in.)		
Serviceability				
Refill Capacities	EPA FT4/EU Stage IV	EPA Tier 3/EU Stage IIIA	EPA Tier 2/EU Stage II	
Fuel Tank with Lockable Cap	477 L (126 gal.)	469 L (124 gal.)	469 L (124 gal.)	
Diesel Exhaust Fluid (DEF)	26.3 L (6.9 gal.)	N/A	N/A	
	51.2 L (54.1 qt.)	44.8 L (47.3 qt.)	44.8 L (47.3 qt.)	
Cooling System		34 L (36 gt.)	34 L (36 qt.)	
Engine Oil with Vertical Spin-On Filter	34 L (36 qt.)	- · - (		
	34 L (36 qt.) 27.9 L (29.5 qt.)	27.9 L (29.5 qt.)	27.9 L (29.5 qt.)	
Engine Oil with Vertical Spin-On Filter	· · ·		27.9 L (29.5 qt.) 55.3 L (58.4 qt.)	
Engine Oil with Vertical Spin-On Filter Transmission Reservoir with Vertical Filter	27.9 L (29.5 qt.)	27.9 L (29.5 qt.)		

744K-1



Hydraulic System/Steering	744K-II Z-BAR / HIGH-LIFT	
Pump (loader and steering)	2 variable-displacement, load-sensing axia	al-piston pumps; closed-center system
Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,250 rpm	491 L/m (130 gpm)	
System Relief Pressure (loader and steering)	22 670 kPa (3,288 psi)	
Loader Controls	2-function valve; single- or dual-lever con iary levers	trols; control lever lockout feature; optional 3rd- and 4th-function valve with auxil-
Steering (conforms to ISO 5010)		
Туре	Power, fully hydraulic	
Articulation Angle	80-deg. arc (40 deg. each direction)	
Turning Radius (measured to centerline of outside tire)	5.92 m (19 ft. 5 in.)	
Hydraulic Cycle Times	Z-Bar	High-Lift
Raise	≤6.8 sec.	≤6.8 sec.
Dump	1.6 sec.	1.6 sec.
Lower (float down)	2.8 sec.	2.8 sec.
Total	11.2 sec.	11.2 sec.
Dimensions and Specifications with Pin-On Bucket		





#### 744K-II Z-BAR AND HIGH-LIFT LOADERS WITH PIN-ON BUCKET

	Z-Bar	Z-Bar	Z-Bar	Z-Bar	Z-Bar	High-Lift
Dimensions with Bucket			4.0-m³ (5.25 cu. yd.)	4.4-m³ (5.75 cu. yd.)		
	4.0-m³ (5.25 cu. yd.) general-purpose with bolt-on edge	4.4-m³ (5.75 cu. yd.) light-materials with bolt-on edge	general-purpose with teeth and segments	light-materials with teeth and segments	4.4-m³ (5.75 cu. yd.) light-materials with JAGZ™	4.0-m³ (5.25 cu. yd.) general-purpose with bolt-on edge
A Height to Top of Cab	3.50 m (11 ft. 6 in.)	3.50 m (11 ft. 6 in.)	3.50 m (11 ft. 6 in.)	3.50 m (11 ft. 6 in.)	3.50 m (11 ft. 6 in.)	3.50 m (11 ft. 6 in.)
B Hood Height	2.65 m (8 ft. 8 in.)	2.65 m (8 ft. 8 in.)	2.65 m (8 ft. 8 in.)	2.65 m (8 ft. 8 in.)	2.65 m (8 ft. 8 in.)	2.65 m (8 ft. 8 in.)
C Ground Clearance	462 mm (18.2 in.)	462 mm (18.2 in.)	462 mm (18.2 in.)	462 mm (18.2 in.)	462 mm (18.2 in.)	462 mm (18.2 in.)
D Length from Centerline to Front Axle	1.70 m (5 ft. 7 in.)	1.70 m (5 ft. 7 in.)	1.70 m (5 ft. 7 in.)	1.70 m (5 ft. 7 in.)	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.)	3.46 m (11 ft. 4 in.)	3.46 m (11 ft. 4 in.)	3.46 m (11 ft. 4 in.)
F Overall Length, Bucket on Ground	9.01 m (29 ft. 7 in.)	9.09 m (29 ft. 10 in.)	9.11 m (29 ft. 11 in.)	9.27 m (30 ft. 5 in.)	9.00 m (29 ft. 6 in.)	9.64 m (31 ft. 8 in.)
G Height to Hinge Pin, Fully Raised	4.28 m (14 ft. 1 in.)	4.28 m (14 ft. 1 in.)	4.28 m (14 ft. 1 in.)	4.28 m (14 ft. 1 in.)	4.28 m (14 ft. 1 in.)	4.85 m (15 ft. 11 in.)
H Dump Clearance, 45 deg., Full Height	3.04 m (10 ft. 0 in.)	2.98 m (9 ft. 9 in.)	2.97 m (9 ft. 9 in.)	2.86 m (9 ft. 5 in.)	3.04 m (10 ft. 0 in.)	3.61 m (11 ft. 10 in.)
I Reach, 45-deg. Dump, Full Height	1.23 m (4 ft. 0 in.)	1.29 m (4 ft. 3 in.)	1.30 m (4 ft. 3 in.)	1.42 m (4 ft. 8 in.)	1.23 m (4 ft. 0 in.)	1.38 m (4 ft. 6 in.)
J Reach, 45-deg. Dump, 2.13-m (7 ft. 0 in.) Clearance	1.85 m (6 ft. 1 in.)	1.88 m (6 ft. 2 in.)	1.88 m (6 ft. 2 in.)	1.95 m (6 ft. 5 in.)	1.85 m (6 ft. 1 in.)	2.41 m (7 ft. 11 in.)
K Maximum Digging Depth	80 mm (3.2 in.)	80 mm (3.2 in.)	80 mm (3.2 in.)	80 mm (3.2 in.)	80 mm (3.2 in.)	214 mm (8.4 in.)
L Maximum Rollback at Ground Level	39.5 deg.	39.5 deg.	39.5 deg.	39.5 deg.	39.5 deg.	40.6 deg.
M Maximum Rollback, Boom Fully Raised	54.9 deg.	54.9 deg.	54.9 deg.	54.9 deg.	54.9 deg.	53.1 deg.
N Maximum Bucket Dump Angle, Fully Raised	49.4 deg.	49.4 deg.	49.4 deg.	49.4 deg.	49.4 deg.	39.2 deg.
Loader Clearance Circle, Bucket Carry Position	14.01 m (46 ft. 0 in.)	14.07 m (46 ft. 2 in.)	14.12 m (46 ft. 4 in.)	14.18 m (46 ft. 6 in.)	14.01 m (46 ft. 0 in.)	14.59 m (47 ft. 10 in.)

Dimensions and Specifications						
with Pin-On Bucket (continued)	744K-II Z-BAR / HIG	H-LIFT				
	Z-Bar	Z-Bar	Z-Bar	Z-Bar	Z-Bar	High-Lift
Specifications with Bucket			4.0-m³ (5.25 cu. yd.)	4.4-m³ (5.75 cu. yd.)		
	4.0-m³ (5.25 cu. yd.) general-purpose with bolt-on edge	4.4-m³ (5.75 cu. yd.) light-materials with bolt-on edge	general-purpose with teeth and segments	light-materials with teeth and segments	4.4-m³ (5.75 cu. yd.) light-materials with JAGZ™	4.0-m³ (5.25 cu. yd.) general-purpose with bolt-on edge
Capacity, Heaped	4.0 m <sup>3</sup> (5.25 cu. yd.)	4.4 m <sup>3</sup> (5.75 cu. yd.)	4.0 m <sup>3</sup> (5.25 cu. yd.)	4.4 m³ (5.75 cu. yd.)	4.0 m <sup>3</sup> (5.25 cu. yd.)	4.0 m <sup>3</sup> (5.25 cu. yd.)
Capacity, Struck	3.4 m³ (4.5 cu. yd.)	3.8 m³ (5.0 cu. yd.)	3.4 m³ (4.5 cu. yd.)	3.8 m³ (5.0 cu. yd.)	3.4 m³ (4.5 cu. yd.)	3.4 m³ (4.5 cu. yd.)
Bucket Weight with Bolt-On Cutting Edge	2517 kg (5,549 lb.)	2595 kg (5,722 lb.)	2643 kg (5,827 lb.)	2721 kg (5,999 lb.)	2540 kg (5,599 lb.)	2517 kg (5,549 lb.)
Bucket Width	3.27 m (10 ft. 9 in.)	3.27 m (10 ft. 9 in.)	3.27 m (10 ft. 9 in.)	3.27 m (10 ft. 9 in.)	3.27 m (10 ft. 9 in.)	3.27 m (10 ft. 9 in.)
Breakout Force	19 416 kg (42,805 lb.)	18 276 kg (40,292 lb.)	19 345 kg (42,648 lb.)	18 190 kg (40,102 lb.)	19 462 kg (42,906 lb.)	17 433 kg (38,433 lb.)
Tipping Load, Straight, No Tire Deflection	19 854 kg (43,771 lb.)	19 651 kg (43,323 lb.)	19 680 kg (43,387 lb.)	19 476 kg (42,937 lb.)	19 824 kg (43,704 lb.)	15 747 kg (34,716 lb.)
Tipping Load, Straight, with Tire Deflection	18 474 kg (40,728 lb.)	18,270 kg (40,278 lb.)	18 096 kg (40,351 lb.)	18 096 kg (39,895 lb.)	18 240 kg (40,212 lb.)	14 682 kg (32,368 lb.)
Tipping Load, 37-deg. Partial Turn, No Tire Deflection	17 516 kg (38,616 lb.)	17 326 kg (38,197 lb.)	17 342 kg (38,233 lb.)	17 150 kg (37,809 lb.)	17 487 kg (38,552 lb.)	13 808 kg (30,441 lb.)
Tipping Load, 40-deg. Full Turn, No Tire Deflection	17 137 kg (37,782 lb.)	16 949 kg (37,366 lb.)	16 964 kg (37,399 lb.)	16 774 kg (36,980 lb.)	17 108 kg (37,717 lb.)	13 494 kg (29,749 lb.)
Tipping Load, 40-deg. Full Turn, with Tire Deflection	15 420 kg (33,995 lb.)	15 231 kg (33,579 lb.)	15 249 kg (33,618 lb.)	15 057 kg (33,195 lb.)	15 201 kg (33,512 lb.)	12 186 kg (26,865 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, with Tire Deflection (conforms to ISO 14397-1)*	7710 kg (16,998 lb.)	7616 kg (16,789 lb.)	7625 kg (16,809 lb.)	7529 kg (16,597 lb.)	7601 kg (16,756 lb.)	6093 kg (13,433 lb.)
Operating Weight	25 358 kg (55,905 lb.)	25 439 kg (56,083 lb.)	25 487 kg (56,189 lb.)	25 568 kg (56,368 lb.)	25 381 kg (55,955 lb.)	25 903 kg (57,106 lb.)

Loader operating information is based on machine with identified linkage and standard equipment, PowerTech PSS 6000 (EPA Final Tier 4/EU Stage IV) 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

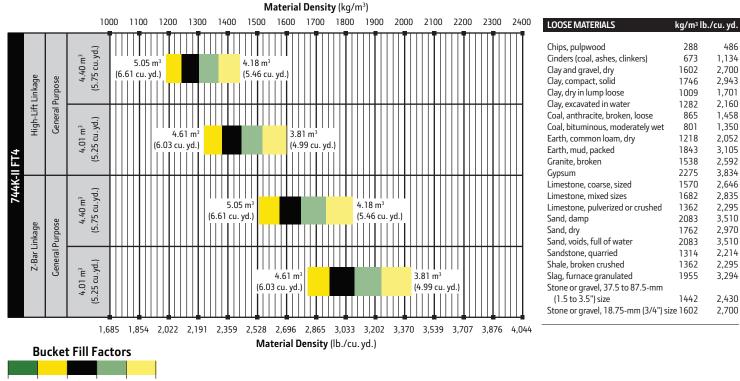
Adjustments to operating weights, tipping loads, and tires are based on Z-Bar machine with pin-on 4.0-m<sup>3</sup> (5.25 cu. yd.) general-purpose bucket with bolt-on cutting edge, ROPS cab, rear cast bumper/counterweight, transmission side-frame guards, bottom guards, standard tires, full fuel tank, and 79-kg (175 lb.) operator\*

Add (+) or deduct (–) kg (lb.) as indicated	Operating	Tipping Load,	Tipping Load, 37-deg.	Tipping Load, 40-deg.			
for loaders with 3-piece rims	Weight	Straight	Partial Turn	Full Turn	Tread Width	Width Over Tires	Vertical Height
John Deere PowerTech PSS 6090	0 kg (0 lb.)	0 kg (0 lb.)	0 kg (0 lb.)	0 kg (0 lb.)	N/A	N/A	N/A
John Deere PowerTech Plus 6090H	—158 kg (—348 lb.)	+447 kg (+986 lb.)	+351 kg (+774 lb.)	+335 kg (+739 lb.)	N/A	N/A	N/A
John Deere PowerTech 6090H	—164 kg (—362 lb.)	+437 kg (+963 lb.)	+342 kg (+754 lb.)	+326 kg (+719 lb.)	N/A	N/A	N/A
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.)	–8 mm (–0.3 in.)	4 mm (0.15 in.)
Goodyear 26.5 R 25, 1 Star L-3	–56 kg (–123 lb.)	–42 kg (–93 lb.)	–38 kg (–84 lb.)	–37 kg (–82 lb.)	0 mm (0 in.)	0 mm (0 in.)	4 mm (0.15 in.)
Firestone 26.5-25, 20-Ply L-3	–360 kg (–794 lb.)	–270 kg (–595 lb.)	–242 kg (–533 lb.)	–238 kg (–525 lb.)	0 mm (0 in.)	–30 mm (–1.18 in.)	+41 mm (+1.61 in.)
Firestone 26.5-25, 20-Ply L-5 <sup>®</sup>	+312 kg (+688 lb.)	+234 kg (+516 lb.)	+210 kg (+463 lb.)	+206 kg (+454 lb.)	0 mm (0 in.)	–20 mm (–0.8 in.)	+64 mm (+2.51 in.)
*May change based on vehicle configuration	n, weight, or tire-pr	essure adiustments.					

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

<sup>®</sup>Requires 8-deg. rear axle stops.

#### 744K-II Z-BAR / HIGH-LIFT



115% 110% 105% 130% 100% 95% 486

1,134

2,700

2,943

1,701 2,160

1,458

1,350

2,052

3,105

2,592

3,834

2,646

2,835

2,295

3,510

2,970

3,510

2,214

2,295

3,294

2,430

2,700

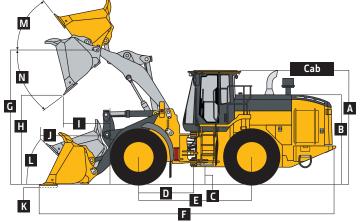
## 824K-II

Engine	824K-II Z-BAR / HIGH-LIFT			
Manufacturer and Model	John Deere PowerTech™ PSS 613	5 John Deere Pow	erTech™ Plus 6135H	John Deere PowerTech™ 6135H
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV	EPA Tier 3/EU St	age 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. i	n.)	13.5 L (824 cu. in.)
Net Peak Power (ISO 9249)	248 kW (333 hp) at 1,500 rpm	248 kW (333 hp	,	248 kW (333 hp) at 1,600 rpm
Net Peak Torque (ISO 9249)	1635 Nm (1,206 lbft.) at 900 rp		lbft.) at 900 rpm	1619 Nm (1,194 lbft.) at 900 rpm
Net Torque Rise	57%	55%	····	55%
Fuel System	Mechanically actuated electronic injectors		tuated electronic unit	Mechanically actuated electronic uni injectors
Lubrication	Full-flow spin-on filter and integr		n filter and integral	Full-flow spin-on filter and integral cooler
Aspiration	Series turbocharged, charge air co		harge air cooled	Turbocharged, charge air cooled
Air Cleaner	Under-hood, dual-element dry ty		al-element dry type,	Under-hood, dual-element dry type,
	restriction indicator in cab monit	or restriction indic	ator in cab monitor	restriction indicator in cab monitor
Cooling	for service	for service		for service
Fan Drive	Hydraulically driven, proportiona	lly Hydraulically dri	ven, proportionally	Hydraulically driven, proportionally
	controlled, fan aft of coolers	controlled, fan a		controlled, fan aft of coolers
Electrical		controlled, Idli a		
Electrical System	2/1 volt with 130 amp alterates	2/uvolt with 100	amp alternator	24 volt with 100-amp alternator
Electrical System Batteries (2 – 12 volt)	24 volt with 130-amp alternator 1,400 CCA (each)	1,400 CCA (each	l-amp alternator	1,400 CCA (each)
Transmission System	1,400 CCA (each)	1,400 CCA (each	]	1,400 CCA (each)
	Countersheft ture DowerShiftM			
lype Formus Comunitar	Countershaft-type PowerShift™	oudooling states		
Forque Converter	Single stage, dual phase with fre		u da ut	
Shift Control	Electronically modulated, adaptive			
Operator Interface	Steering-column or joystick-mou			
Shift Modes			h 2 selectable modes: ki	ick-down or kick-up/down; and 3 clutch
	cutoff settings adjustable on swi			
	Standard 5-Speed with Lockup T		Optional 4-Speed	_
Maximum Travel Speeds (with 26.5 R 25, 1 Star L3 tires)		verse	Forward	Reverse
Range 1		3 km/h (5.2 mph)	7.4 km/h (4.6 mph	
Range 2	• •	.0 km/h (8.7 mph)	13.8 km/h (8.6 mp	· · · ·
Range 3		.9 km/h (21.1 mph)	21.0 km/h (13.1 m	
Range 4	33.9 km/h (21.1 mph) N/	A	40.0 km/h (24.9 m	ph) N/A
Range 5	40.0 km/h (24.9 mph) N/	A	N/A	N/A
Axles/Brakes				
Final Drives	Heavy-duty inboard-mounted pla	anetary		
Differentials	Hydraulic locking front with conv	ventional rear – standar	d; dual locking front an	d rear – optional
Rear Axle Oscillation, Stop to Stop (with 26.5 R 25, 1 Star	26 deg. (13 deg. each direction)			-
L3 tires)				
Service Brakes (conform to ISO 3450)	Hydraulically actuated, spring rel	eased, inboard, sun-gea	ar mounted, pressure o	il cooled, self-adjusting, single disc
Parking Brakes (conform to ISO 3450)	Automatic spring applied, hydrau	lically released, oil cool	ed, multi disc	
Tires/Wheels (see page 22 for complete tire adjustments)				
	Tread Width	Width Over Tire	s	
Michelin 26.5 R 25, 1 Star L3	2298 mm (90.5 in.)	3084 mm (121.4	+in.)	
Serviceability				
Refill Capacities	EPA FT4/EU Stage IV	EPA Tier 3/EU St	age IIIA	EPA Tier 2/EU Stage II
Fuel Tank with Lockable Cap	477 L (126 gal.)	469.4 L (124 ga		469.4 L (124 gal.)
Diesel Exhaust Fluid (DEF)	26.3 L (6.9 gal.)	N/A		N/A
Cooling System	78.75 L (83.2 qt.)	47.4 L (50.1 gt.)		47.4 L (50.1 qt.)
Engine Oil with Vertical Spin-On Filter	40 L (42.3 qt.)	36 L (38 gt.)		36 L (38 qt.)
Transmission Reservoir with Vertical Filter	•			27.9 L (29.5 qt.)
Inguishingston Reservoir with vertical Filter	27.9 L (29.5 qt.)	27.9 L (29.5 qt.)		
Aula Oil (fromt and room as -b)				
Axle Oil (front and rear, each)	55.3 L (58.4 qt.)	55.3 L (58.4 qt.)		55.3 L (58.4 qt.)
Axle Oil (front and rear, each) Hydraulic Reservoir and Filter Park Brake Oil (wet disc)	55.3 L (58.4 qt.) 165 L (43.7 gal.) 0.7 L (24 oz.)	55.3 L (58.4 qt.) 159 L (42 gal.) 0.7 L (24 oz.)		55.3 L (58.4 qt.) 159 L (42 gal.) 0.7 L (24 oz.)



Hydraulic System/Steering	824K-II Z-BAR / HIGH-LIFT	
Pump (loader and steering)	2 variable-displacement, load-sensing axi	al-piston pumps; closed-center system
Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,250 rpm	491 L/m (130 gpm)	
System Relief Pressure (loader and steering)	25 166 kPa (3,650 psi)	
Loader Controls	2-function valve; single- or dual-lever con iary levers	trols; control lever lockout feature; optional 3rd- and 4th-function valve with auxil-
Steering (conforms to ISO 5010)		
Туре	Power, fully hydraulic	
Articulation Angle	80-deg. arc (40 deg. each direction)	
Turning Radius (measured to centerline of outside tire)	5.92 m (19 ft. 5 in.)	
Hydraulic Cycle Times	Z-Bar	High-Lift
Raise	5.9 sec.	6.0 sec.
Dump	1.3 sec.	1.3 sec.
Lower (float down)	2.5 sec.	2.6 sec.
Total	9.7 sec.	9.9 sec.
Dimensions and Specifications with Pin-On Bucket		





#### 824K-II Z-BAR AND HIGH-LIFT LOADERS WITH PIN-ON BUCKET

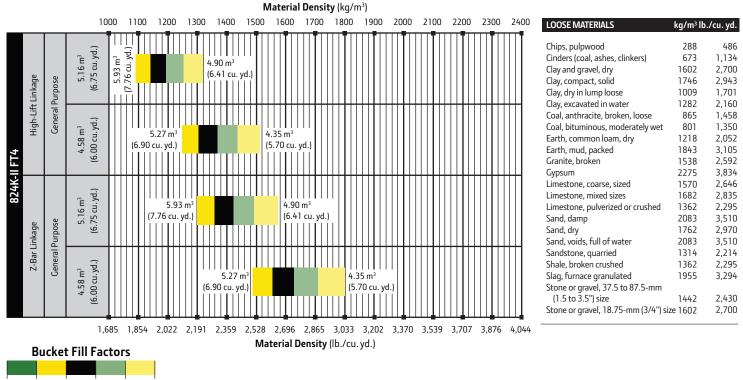
	02 TR-11 Z-DAR AND HIGH-	LITT LOADERS WITH FIN-ON DO	CKLI	
	Z-Bar	Z-Bar	High-Lift	High-Lift
Dimensions with Bucket				4.6-m³ (6.0 cu. yd.) general-
	4.6-m³ (6.0 cu. yd.) general-	5.2-m³ (6.75 cu. yd.) light-	4.6-m³ (6.0 cu. yd.) general-	purpose with teeth and
	purpose with bolt-on edge	materials with bolt-on edge	purpose with bolt-on edge	segments
A Height to Top of Cab	3.55 m (11 ft. 8 in.)	3.55 m (11 ft. 8 in.)	3.55 m (11 ft. 8 in.)	3.55 m (11 ft. 8 in.)
B Hood Height	2.70 m (8 ft. 10 in.)	2.70 m (8 ft. 10 in.)	2.70 m (8 ft. 10 in.)	2.70 m (8 ft. 10 in.)
C Ground Clearance	462 mm (18.2 in.)	462 mm (18.2 in.)	462 mm (18.2 in.)	462 mm (18.2 in.)
D Length from Centerline to Front Axle	1.70 m (5 ft. 7 in.)	1.70 m (5 ft. 7 in.)	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.)	3.46 m (11 ft. 4 in.)
F Overall Length, Bucket on Ground	9.26 m (30 ft. 5 in.)	9.38 m (30 ft. 9 in.)	9.77 m (32 ft. 1 in.)	9.95 m (32 ft. 8 in.)
G Height to Hinge Pin, Fully Raised	4.48 m (14 ft. 9 in.)	4.48 m (14 ft. 9 in.)	4.85 m (15 ft. 11 in.)	4.85 m (15 ft. 11 in.)
H Dump Clearance, 45 deg., Full Height	3.19 m (10 ft. 6 in.)	3.12 m (10 ft. 3 in.)	3.63 m (11 ft. 11 in.)	3.52 m (11 ft. 7 in.)
I Reach, 45-deg. Dump, Full Height	1.28 m (4 ft. 2 in.)	1.36 m (4 ft. 6 in.)	1.63 m (5 ft. 4 in.)	1.77 m (5 ft. 10 in.)
J Reach, 45-deg. Dump, 2.13-m (7 ft. 0 in.)	2.05 m (6 ft. 9 in.)	2.09 m (6 ft. 10 in.)	2.50 m (8 ft. 2 in.)	2.58 m (8 ft. 5 in.)
Clearance				
K Maximum Digging Depth	115 mm (4.5 in.)	115 mm (4.5 in.)	196 mm (7.7 in.)	196 mm (7.7 in.)
L Maximum Rollback at Ground Level	45.5 deg.	45.5 deg.	45.5 deg.	45.5 deg.
M Maximum Rollback, Boom Fully Raised	52 deg.	52 deg.	53 deg.	53 deg.
N Maximum Bucket Dump Angle, Fully Raised	44.1 deg.	44.1 deg.	39.8 deg.	39.8 deg.
Loader Clearance Circle, Bucket Carry Position	14.14 m (46 ft. 5 in.)	14.20 m (46 ft. 7 in.)	14.68 m (48 ft. 2 in.)	14.81 m (48 ft. 7 in.)

Dimensions and Specifications with Pin-On Bucket (continued)	824K-II Z-BAR / HIGH-LIFT			
	Z-Bar	Z-Bar	High-Lift	High-Lift
Specifications with Bucket	4.6-m³ (6.0 cu. yd.) general- purpose with bolt-on edge	5.2-m³ (6.75 cu. yd.) light- material with bolt-on edge	- 4.6-m³ (6.0 cu. yd.) general- purpose with bolt-on edge	4.6-m <sup>3</sup> (6.0 cu. yd.) general- purpose with teeth and segments
Capacity, Heaped	4.6 m <sup>3</sup> (6.0 cu. yd.)	5.2 m <sup>3</sup> (6.75 cu. yd.)	4.6 m <sup>3</sup> (6.0 cu. yd.)	4.6 m <sup>3</sup> (6.0 cu. yd.)
Capacity, Struck	4.0 m <sup>3</sup> (5.25 cu. yd.)	4.4 m <sup>3</sup> (5.8 cu. yd.)	4.0 m <sup>3</sup> (5.25 cu. yd.)	4.0 m <sup>3</sup> (5.25 cu. yd.)
Bucket Weight with Bolt-On Cutting Edge	2788 kg (6,146 lb.)	2908 kg (6,411 lb.)	2788 kg (6,146 lb.)	2914 kg (6,423 lb.)
Bucket Width	3.27 m (10 ft. 9 in.)	3.27 m (10 ft. 9 in.)	3.27 m (10 ft. 9 in.)	3.27 m (10 ft. 9 in.)
Breakout Force	18 718 kg (41,266 lb.)	17 310 kg (38,163 lb.)	17 534 kg (38,655 lb.)	17 437 kg (38,443 lb.)
Tipping Load, Straight, No Tire Deflection	20 418 kg (45,014 lb.)	20 131 kg (44,381 lb.)	17 148 kg (37,805 lb.)	17 037 kg (37,560 lb.)
Tipping Load, Straight, with Tire Deflection	18 948 kg (41,773 lb.)	18 657 kg (41,132 lb.)	15 993 kg (35,258 lb.)	15 882 kg (35,014 lb.)
Tipping Load, 37-deg. Partial Turn	17 950 kg (39,573 lb.)	17 680 kg (38,978 lb.)	15 002 kg (33,074 lb.)	14 890 kg (32,827 lb.)
Tipping Load, 40-deg. Full Turn, No Tire Deflection	17 551 kg (38,693 lb.)	17 283 kg (38,102 lb.)	14 654 kg (32,307 lb.)	14 543 kg (32,062 lb.)
Tipping Load, 40-deg. Full Turn, with Tire Deflection	15 696 kg (34,604 lb.)	15 423 kg (34,002 lb.)	13 173 kg (29,041 lb.)	13 062 kg (28,797 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, with Tire Deflection (conforms to ISO 14397-1)*	7848 kg (17,302 lb.)	7712 kg (17,001 lb.)	6587 kg (14,521 lb.)	6531 kg (14,398 lb.)
Operating Weight	26 880 kg (59,260 lb.)	27 004 kg (59,534 lb.)	27 267 kg (60,113 lb.)	27 352 kg (60,301 lb.)
Loader operating information is based on ma rear cast bumper/counterweight, transmissic by changes in tires, ballast, and different att	achine with identified linkage a on side-frame guards, bottom g	nd standard equipment, Power	Tech PSS 6135 (EPA Final Tier 4/E	U Stage IV) engine, ROPS cab,
*Rated operating capacity based on Deere atta	chments only.			
Adjustments to Operating Weights and Tipping Loads with Buckets				
Adjustments to operating weights, tipping loa ROPS cab, rear cast bumper/counterweight, tr				

Add (+) or deduct (–) kg (lb.) as indicated for loaders with 3-piece rims	Operating Weight	Tipping Load, Straight	Tipping Load, 37-deg. Partial Turn	Tipping Load, 40-deg. Full Turn	Tread Width	Width Over Tires	Vertical Height
John Deere PowerTech PSS 6135	0 kg (0 lb.)	0 kg (0 lb.)	0 kg (0 lb.)	0 kg (0 lb.)	N/A	N/A	N/A
John Deere PowerTech Plus 6135H	–134 kg (–295 lb.)	+253 kg (+558 lb.)	+194 kg (+428 lb.)	+184 kg (+406 lb.)	N/A	N/A	N/A
John Deere PowerTech 6135H	–134 kg (–295 lb.)	+253 kg (+558 lb.)	+194 kg (+428 lb.)	+184 kg (+406 lb.)	N/A	N/A	N/A
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.)	–40 kg (–88 lb.)	–36 kg (–79 lb.)	–35 kg (–77 lb.)	0 mm (0 in.)	+1 mm (+0.04 in.)	+4 mm (+0.16 in.)
Firestone 26.5-25, 20-Ply L-3	–360 kg (–794 lb.)	–256 kg (–565 lb.)	–230 kg (–507 lb.)	–226 kg (–498 lb.)	0 mm (0 in.)	–28 mm (–1.1 in.)	+39 mm (+1.53 in.)
Firestone 26.5-25, 20-Ply L-5 <sup>g</sup>	+312 kg (+688 lb.)	+222 kg (+490 lb.)	+199 kg (+440 lb.)	+196 kg (+432 lb.)	0 mm (0 in.)	–18 mm (–0.7 in.)	+63 mm (+2.48 in.)
Michelin 29.5 R 25, 2 Star L-3 <sup>B</sup>	+604 kg (+1,332 lb.)	+430 kg (+949 lb.)	+386 kg (+851 lb.)	+379 kg (+836 lb.)	0 mm (0 in.)	+82 mm (+3.23 in.)	+69 mm (+2.71 in.)
Titan 29.5 R 25, 1 Star L-3 <sup>8</sup>	+664 kg (+1,464 lb.)	+473 kg (+1,043 lb.)	+425 kg (+936 lb.)	+417 kg (+919 lb.)	0 mm (0 in.)	+58 mm (+2.3 in.)	+80 mm (+3.1 in.)
Bridgestone 29.5 R 25, 1 Star L-3 <sup>g</sup>	+720 kg (+1,587 lb.)	+513 kg (+1,131 lb.)	+460 kg (+1,015 lb.)	+452 kg (+996 lb.)	0 mm (0 in.)	+71 mm (+2.8 in.)	+78 mm (+3.0 in.)

\*May change based on vehicle configuration, weight, or tire-pressure adjustments. <sup>®</sup>Requires 8-deg. rear axle stops.

#### 824K-II Z-BAR / HIGH-LIFT



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

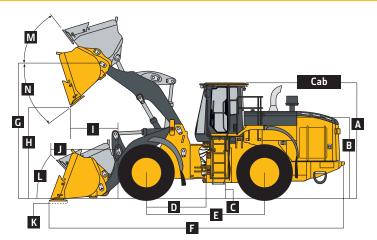
# 844K-II

Engine	844K-II Z-BAR		
Manufacturer and Model	John Deere PowerTech™ PSS 6135	John Deere PowerTech™ Plus 6135H	John Deere PowerTech™ 6135H
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV	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)	281 kW (377 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)	1804 Nm (1,331 lbft.) at 1,000 rpm	1793 Nm (1,323 lbft.) at 900 rpm	1793 Nm (1,323 lbft.) at 900 rpm
Net Torque Rise	39%	44%	44%
Fuel System	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	Dual-element dry type, restriction	Dual-element dry type, restriction
	indicator in cab monitor for service	indicator in cab monitor for service	indicator in cab monitor for service
Cooling			
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			
Electrical System	24 volt with 130-amp 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			
Туре	Countershaft-type PowerShift <sup>™</sup>		
Torque Converter	Single stage, dual phase with freewhe	eling stator	
Shift Control	Electronically modulated, adaptive, loa	ad and speed dependent	
Operator Interface		F-N-R and gear-select lever; quick-shift	
Shift Modes	Manual/auto (1st–5th or 2nd–5th); qui	ck-shift button with 2 selectable modes:	kick-down or kick-up/down; and 3 clutch-
2UILT INIOGES	Manual/auto (Ist–5th or 2nd–5th); qui cutoff settings adjustable on switch pa		kick-down or kick-up/down; and 3 clutch-
Shirt Modes		ad	1
Shift Modes Maximum Travel Speeds (with 29.5 R 25, 1 Star L3 tires)	cutoff settings adjustable on switch pa	ad Converter Optional 4-Speed	
	cutoff settings adjustable on switch p Standard 5-Speed with Lockup Torque Forward Reverse	ad Converter Optional 4-Speed	l Reverse
Maximum Travel Speeds (with 29.5 R 25, 1 Star L3 tires)	cutoff settings adjustable on switch po Standard 5-Speed with Lockup Torque Forward Reverse 7.9 km/h (4.9 mph) 7.9 km/	ad Converter Optional 4-Speed Forward	n Reverse h) 6.6 km/h (4.1 mph)
Maximum Travel Speeds (with 29.5 R 25, 1 Star L3 tires) Range 1	cutoff settings adjustable on switch poStandard 5-Speed with Lockup TorqueForwardReverse7.9 km/h (4.9 mph)7.9 km/13.5 km/h (8.4 mph)13.1 km	ad Converter Optional 4-Speed Forward h (4.9 mph) 6.6 km/h (4.1 mp	Reverse (h) 6.6 km/h (4.1 mph) (ph) 12.2 km/h (7.6 mph)
Maximum Travel Speeds (with 29.5 R 25, 1 Star L3 tires) Range 1 Range 2	cutoff settings adjustable on switch poStandard 5-Speed with Lockup TorqueForwardReverse7.9 km/h (4.9 mph)7.9 km/13.5 km/h (8.4 mph)13.1 km	ad <i>Converter</i> <i>Forward</i> h (4.9 mph) 0.6 km/h (4.1 mp 12.2 km/h (7.6 m	A Reverse (h) 6.6 km/h (4.1 mph) (ph) 12.2 km/h (7.6 mph) mph) 27.3 km/h (17.0 mph)
Maximum Travel Speeds (with 29.5 R 25, 1 Star L3 tires) Range 1 Range 2 Range 3	cutoff settings adjustable on switch poStandard 5-Speed with Lockup TorqueForwardReverse7.9 km/h (4.9 mph)7.9 km/13.5 km/h (8.4 mph)13.1 km20.9 km/h (13.0 mph)30.7 km30.7 km/h (19.1 mph)N/A	ad Converter Optional 4-Speed Forward h (4.9 mph) 6.6 km/h (4.1 mp /h (8.1 mph) 12.2 km/h (7.6 m /h (19.1 mph) 18.8 km/h (11.7 r	Reverse           (h)         6.6 km/h (4.1 mph)           (ph)         12.2 km/h (7.6 mph)           mph)         27.3 km/h (17.0 mph)
Maximum Travel Speeds (with 29.5 R 25, 1 Star L3 tires) Range 1 Range 2 Range 3 Range 4	cutoff settings adjustable on switch poStandard 5-Speed with Lockup TorqueForwardReverse7.9 km/h (4.9 mph)7.9 km/13.5 km/h (8.4 mph)13.1 km20.9 km/h (13.0 mph)30.7 km30.7 km/h (19.1 mph)N/A	ad Converter Optional 4-Speed Forward h (4.9 mph) 6.6 km/h (4.1 mp /h (8.1 mph) 12.2 km/h (7.6 m /h (19.1 mph) 18.8 km/h (11.7 m 40.5 km/h (25.2 m	Reverse           (h)         6.6 km/h (4.1 mph)           (ph)         12.2 km/h (7.6 mph)           mph)         27.3 km/h (17.0 mph)           mph)         N/A
Maximum Travel Speeds (with 29.5 R 25, 1 Star L3 tires) Range 1 Range 2 Range 3 Range 4 Range 5	cutoff settings adjustable on switch poStandard 5-Speed with Lockup TorqueForwardReverse7.9 km/h (4.9 mph)7.9 km/13.5 km/h (8.4 mph)13.1 km20.9 km/h (13.0 mph)30.7 km30.7 km/h (19.1 mph)N/A	ad Converter Optional 4-Speed Forward h (4.9 mph) 6.6 km/h (4.1 mp /h (8.1 mph) 12.2 km/h (7.6 m /h (19.1 mph) 18.8 km/h (11.7 m 40.5 km/h (25.2 m	Reverse           (h)         6.6 km/h (4.1 mph)           (ph)         12.2 km/h (7.6 mph)           mph)         27.3 km/h (17.0 mph)           mph)         N/A
Maximum Travel Speeds (with 29.5 R 25, 1 Star L3 tires) Range 1 Range 2 Range 3 Range 4 Range 5 <b>Axles/Brakes</b>	cutoff settings adjustable on switch po Standard 5-Speed with Lockup Torque Forward Reverse 7.9 km/h (4.9 mph) 7.9 km/ 13.5 km/h (8.4 mph) 13.1 km 20.9 km/h (13.0 mph) 30.7 km 30.7 km/h (19.1 mph) N/A 40.0 km/h (24.9 mph) N/A Heavy-duty mid-board planetary	ad Converter Optional 4-Speed Forward h (4.9 mph) 6.6 km/h (4.1 mp /h (8.1 mph) 12.2 km/h (7.6 m /h (19.1 mph) 18.8 km/h (11.7 m 40.5 km/h (25.2 m	Reverse Reverse b) 6.6 km/h (4.1 mph) 12.2 km/h (7.6 mph) mph) 27.3 km/h (17.0 mph) mph) N/A N/A
Maximum Travel Speeds (with 29.5 R 25, 1 Star L3 tires) Range 1 Range 2 Range 3 Range 4 Range 5 <b>Axles/Brakes</b> Final Drives	cutoff settings adjustable on switch po Standard 5-Speed with Lockup Torque Forward Reverse 7.9 km/h (4.9 mph) 7.9 km/ 13.5 km/h (8.4 mph) 13.1 km 20.9 km/h (13.0 mph) 30.7 km 30.7 km/h (19.1 mph) N/A 40.0 km/h (24.9 mph) N/A Heavy-duty mid-board planetary	ad 2 Converter Optional 4-Speed Forward h (4.9 mph) 6.6 km/h (4.1 mp /h (8.1 mph) 12.2 km/h (7.6 m /h (19.1 mph) 18.8 km/h (11.7 m 40.5 km/h (25.2 m N/A	Reverse Reverse (h) 6.6 km/h (4.1 mph) 12.2 km/h (7.6 mph) 27.3 km/h (17.0 mph) Mph) N/A N/A
Maximum Travel Speeds (with 29.5 R 25, 1 Star L3 tires) Range 1 Range 2 Range 3 Range 4 Range 5 Axles/Brakes Final Drives Differentials	cutoff settings adjustable on switch po Standard 5-Speed with Lockup Torque Forward Reverse 7.9 km/h (4.9 mph) 7.9 km/ 13.5 km/h (8.4 mph) 13.1 km 20.9 km/h (13.0 mph) 30.7 km 30.7 km/h (19.1 mph) N/A 40.0 km/h (24.9 mph) N/A Heavy-duty mid-board planetary Hydraulic locking front with conventio	ad 2 Converter Optional 4-Speed Forward h (4.9 mph) 6.6 km/h (4.1 mp /h (8.1 mph) 12.2 km/h (7.6 m /h (19.1 mph) 18.8 km/h (11.7 m 40.5 km/h (25.2 m N/A	Reverse Reverse (h) 6.6 km/h (4.1 mph) 12.2 km/h (7.6 mph) 27.3 km/h (17.0 mph) mph) N/A N/A
Maximum Travel Speeds (with 29.5 R 25, 1 Star L3 tires) Range 1 Range 2 Range 3 Range 4 Range 5 <b>Axles/Brakes</b> Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 29.5 R 25, 1 Star	cutoff settings adjustable on switch po Standard 5-Speed with Lockup Torque Forward Reverse 7.9 km/h (4.9 mph) 7.9 km/ 13.5 km/h (8.4 mph) 13.1 km 20.9 km/h (13.0 mph) 30.7 km 30.7 km/h (19.1 mph) N/A 40.0 km/h (24.9 mph) N/A Heavy-duty mid-board planetary Hydraulic locking front with conventio	ad 2 Converter Optional 4-Speed Forward h (4.9 mph) 6.6 km/h (4.1 mp /h (8.1 mph) 12.2 km/h (7.6 m /h (19.1 mph) 18.8 km/h (11.7 m 40.5 km/h (25.2 m N/A nal rear – standard; dual locking front a	Reverse Reverse (h) 6.6 km/h (4.1 mph) 12.2 km/h (7.6 mph) 27.3 km/h (17.0 mph) mph) N/A N/A
Maximum Travel Speeds (with 29.5 R 25, 1 Star L3 tires) Range 1 Range 2 Range 3 Range 4 Range 5 Axles/Brakes Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 29.5 R 25, 1 Star L3 tires)	cutoff settings adjustable on switch po Standard 5-Speed with Lockup Torque Forward Reverse 7.9 km/h (4.9 mph) 7.9 km/ 13.5 km/h (8.4 mph) 13.1 km 20.9 km/h (13.0 mph) 30.7 km 30.7 km/h (19.1 mph) N/A 40.0 km/h (24.9 mph) N/A Heavy-duty mid-board planetary Hydraulic locking front with convention 26 deg. (13 deg. each direction)	ad 2 Converter Optional 4-Speed Forward h (4.9 mph) 6.6 km/h (4.1 mp /h (8.1 mph) 12.2 km/h (7.6 m /h (19.1 mph) 18.8 km/h (11.7 m 40.5 km/h (25.2 m N/A nal rear – standard; dual locking front a	Reverse Reverse (h) 6.6 km/h (4.1 mph) 12.2 km/h (7.6 mph) 27.3 km/h (17.0 mph) Mph) N/A N/A
Maximum Travel Speeds (with 29.5 R 25, 1 Star L3 tires) Range 1 Range 2 Range 3 Range 4 Range 5 Axles/Brakes Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 29.5 R 25, 1 Star L3 tires) Service Brakes (conform to ISO 3450)	cutoff settings adjustable on switch po Standard 5-Speed with Lockup Torque Forward Reverse 7.9 km/h (4.9 mph) 7.9 km/ 13.5 km/h (8.4 mph) 13.1 km 20.9 km/h (13.0 mph) 30.7 km 30.7 km/h (19.1 mph) N/A 40.0 km/h (24.9 mph) N/A Heavy-duty mid-board planetary Hydraulic locking front with convention 26 deg. (13 deg. each direction) Outboard, forced oil cooled, multi disc	ad 2 Converter Optional 4-Speed Forward h (4.9 mph) 6.6 km/h (4.1 mp /h (8.1 mph) 12.2 km/h (7.6 m /h (19.1 mph) 18.8 km/h (11.7 m 40.5 km/h (25.2 m N/A nal rear – standard; dual locking front a	Reverse Reverse (h) 6.6 km/h (4.1 mph) 12.2 km/h (7.6 mph) 27.3 km/h (17.0 mph) mph) N/A N/A
Maximum Travel Speeds (with 29.5 R 25, 1 Star L3 tires) Range 1 Range 2 Range 3 Range 4 Range 5 Axles/Brakes Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 29.5 R 25, 1 Star L3 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450)	cutoff settings adjustable on switch po Standard 5-Speed with Lockup Torque Forward Reverse 7.9 km/h (4.9 mph) 7.9 km/ 13.5 km/h (8.4 mph) 13.1 km 20.9 km/h (13.0 mph) 30.7 km 30.7 km/h (19.1 mph) N/A 40.0 km/h (24.9 mph) N/A Heavy-duty mid-board planetary Hydraulic locking front with convention 26 deg. (13 deg. each direction) Outboard, forced oil cooled, multi disc	ad 2 Converter Optional 4-Speed Forward h (4.9 mph) 6.6 km/h (4.1 mp /h (8.1 mph) 12.2 km/h (7.6 m /h (19.1 mph) 18.8 km/h (11.7 m 40.5 km/h (25.2 m N/A nal rear – standard; dual locking front a	Reverse           h)         6.6 km/h (4.1 mph)           uph)         12.2 km/h (7.6 mph)           mph)         27.3 km/h (17.0 mph)           mph)         N/A
Maximum Travel Speeds (with 29.5 R 25, 1 Star L3 tires) Range 1 Range 2 Range 3 Range 4 Range 5 Axles/Brakes Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 29.5 R 25, 1 Star L3 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450)	cutoff settings adjustable on switch po Standard 5-Speed with Lockup Torque Forward Reverse 7.9 km/h (4.9 mph) 7.9 km/ 13.5 km/h (8.4 mph) 13.1 km 20.9 km/h (13.0 mph) 30.7 km 30.7 km/h (19.1 mph) N/A 40.0 km/h (24.9 mph) N/A Heavy-duty mid-board planetary Hydraulic locking front with convention 26 deg. (13 deg. each direction) Outboard, forced oil cooled, multi disc Automatic spring applied, hydraulically	ad P Converter Optional 4-Speed Forward h (4.9 mph) 6.6 km/h (4.1 mp /h (8.1 mph) 12.2 km/h (7.6 m /h (19.1 mph) 18.8 km/h (11.7 r 40.5 km/h (25.2 r N/A nal rear – standard; dual locking front a y released, sealed wet multi disc	Reverse Reverse (h) 6.6 km/h (4.1 mph) 12.2 km/h (7.6 mph) 27.3 km/h (17.0 mph) mph) N/A N/A
Maximum Travel Speeds (with 29.5 R 25, 1 Star L3 tires) Range 1 Range 2 Range 3 Range 4 Range 5 Axles/Brakes Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 29.5 R 25, 1 Star L3 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) Tires/Wheels (see page 26 for complete tire adjustments)	cutoff settings adjustable on switch po Standard 5-Speed with Lockup Torque Forward Reverse 7.9 km/h (4.9 mph) 7.9 km/ 13.5 km/h (8.4 mph) 13.1 km 20.9 km/h (13.0 mph) 30.7 km 30.7 km/h (19.1 mph) N/A 40.0 km/h (24.9 mph) N/A Heavy-duty mid-board planetary Hydraulic locking front with convention 26 deg. (13 deg. each direction) Outboard, forced oil cooled, multi disc Automatic spring applied, hydraulically Tread Width	ad Converter Optional 4-Speed Forward h (4.9 mph) 6.6 km/h (4.1 mp /h (8.1 mph) 12.2 km/h (7.6 m /h (19.1 mph) 18.8 km/h (11.7 r 40.5 km/h (25.2 r N/A nal rear – standard; dual locking front a y released, sealed wet multi disc Width Over Tires	Reverse Reverse (h) 6.6 km/h (4.1 mph) 12.2 km/h (7.6 mph) 27.3 km/h (17.0 mph) Mph) N/A N/A
Maximum Travel Speeds (with 29.5 R 25, 1 Star L3 tires) Range 1 Range 2 Range 2 Range 3 Range 4 Range 5 Axles/Brakes Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 29.5 R 25, 1 Star L3 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) Tires/Wheels (see page 26 for complete tire adjustments) Michelin 875/65R29, 1 Star L-3	cutoff settings adjustable on switch po Standard 5-Speed with Lockup Torque Forward Reverse 7.9 km/h (4.9 mph) 7.9 km/ 13.5 km/h (8.4 mph) 13.1 km 20.9 km/h (13.0 mph) 30.7 km 30.7 km/h (19.1 mph) N/A 40.0 km/h (24.9 mph) N/A Heavy-duty mid-board planetary Hydraulic locking front with convention 26 deg. (13 deg. each direction) Outboard, forced oil cooled, multi disc Automatic spring applied, hydraulically Tread Width	ad Converter Optional 4-Speed Forward h (4.9 mph) 6.6 km/h (4.1 mp /h (8.1 mph) 12.2 km/h (7.6 m /h (19.1 mph) 18.8 km/h (11.7 r 40.5 km/h (25.2 r N/A nal rear – standard; dual locking front a y released, sealed wet multi disc Width Over Tires	Reverse Reverse (h) 6.6 km/h (4.1 mph) 12.2 km/h (7.6 mph) 27.3 km/h (17.0 mph) Mph) N/A N/A
Maximum Travel Speeds (with 29.5 R 25, 1 Star L3 tires) Range 1 Range 2 Range 2 Range 3 Range 4 Range 5 <b>Axles/Brakes</b> Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 29.5 R 25, 1 Star L3 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) <b>Tires/Wheels</b> (see page 26 for complete tire adjustments) Michelin 875/65R29, 1 Star L-3 <b>Serviceability</b>	cutoff settings adjustable on switch po Standard 5-Speed with Lockup Torque Forward Reverse 7.9 km/h (4.9 mph) 7.9 km/ 13.5 km/h (8.4 mph) 13.1 km 20.9 km/h (13.0 mph) 30.7 km 30.7 km/h (19.1 mph) N/A 40.0 km/h (24.9 mph) N/A Heavy-duty mid-board planetary Hydraulic locking front with conventio 26 deg. (13 deg. each direction) Outboard, forced oil cooled, multi disc Automatic spring applied, hydraulically Tread Width 2440 mm (96.1 in.)	ad Converter Optional 4-Speed Forward h (4.9 mph) 6.6 km/h (4.1 mp /h (8.1 mph) 12.2 km/h (7.6 m /h (19.1 mph) 18.8 km/h (11.7 r 40.5 km/h (25.2 r N/A nal rear – standard; dual locking front a y released, sealed wet multi disc Width Over Tires 3408 mm (134.2 in.)	Reverse           h)         6.6 km/h (4.1 mph)           iph)         12.2 km/h (7.6 mph)           mph)         27.3 km/h (17.0 mph)           mph)         N/A           N/A           and rear – optional
Maximum Travel Speeds (with 29.5 R 25, 1 Star L3 tires) Range 1 Range 2 Range 2 Range 3 Range 4 Range 5 <b>Axles/Brakes</b> Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 29.5 R 25, 1 Star L3 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) <b>Tires/Wheels</b> <i>(see page 26 for complete tire adjustments)</i> Michelin 875/65R29, 1 Star L-3 <b>Serviceability</b> Refill Capacities Fuel Tank (with ground-level fueling)	cutoff settings adjustable on switch po Standard 5-Speed with Lockup Torque Forward Reverse 7.9 km/h (4.9 mph) 7.9 km/ 13.5 km/h (8.4 mph) 13.1 km 20.9 km/h (13.0 mph) 30.7 km 30.7 km/h (19.1 mph) N/A 40.0 km/h (24.9 mph) N/A Heavy-duty mid-board planetary Hydraulic locking front with conventio 26 deg. (13 deg. each direction) Outboard, forced oil cooled, multi disc Automatic spring applied, hydraulically Tread Width 2440 mm (96.1 in.) EPA FT4/EU Stage IV 534 L (141 gal.)	ad Converter Optional 4-Speed Forward h (4.9 mph) 6.6 km/h (4.1 mp /h (8.1 mph) 12.2 km/h (7.6 m /h (19.1 mph) 18.8 km/h (11.7 r 40.5 km/h (25.2 r N/A nal rear – standard; dual locking front a greleased, sealed wet multi disc Width Over Tires 3408 mm (134.2 in.) EPA Tier 3/EU Stage IIIA	Reverse           h)         6.6 km/h (4.1 mph)           iph)         12.2 km/h (7.6 mph)           mph)         27.3 km/h (17.0 mph)           mph)         N/A           and rear – optional
Maximum Travel Speeds (with 29.5 R 25, 1 Star L3 tires) Range 1 Range 2 Range 2 Range 3 Range 4 Range 5 <b>Axles/Brakes</b> Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 29.5 R 25, 1 Star L3 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) <b>Tires/Wheels (see page 26 for complete tire adjustments)</b> Michelin 875/65R29, 1 Star L-3 <b>Serviceability</b> Refill Capacities Fuel Tank (with ground-level fueling) Diesel Exhaust Fluid (DEF)	cutoff settings adjustable on switch po Standard 5-Speed with Lockup Torque Forward Reverse 7.9 km/h (4.9 mph) 7.9 km/ 13.5 km/h (8.4 mph) 13.1 km 20.9 km/h (13.0 mph) 30.7 km 30.7 km/h (19.1 mph) N/A 40.0 km/h (24.9 mph) N/A Heavy-duty mid-board planetary Hydraulic locking front with convention 26 deg. (13 deg. each direction) Outboard, forced oil cooled, multi disc Automatic spring applied, hydraulically Tread Width 2440 mm (96.1 in.) EPA FT4/EU Stage IV 534 L (141 gal.) 26.3 L (6.9 gal.)	ad Converter Optional 4-Speed Forward h (4.9 mph) 6.6 km/h (4.1 mp /h (8.1 mph) 12.2 km/h (7.6 m /h (19.1 mph) 18.8 km/h (11.7 m 40.5 km/h (25.2 m N/A nal rear – standard; dual locking front a Width Over Tires 3408 mm (134.2 in.) EPA Tier 3/EU Stage IIIA 553 L (146 gal.) N/A	Reverse           kh)         6.6 km/h (4.1 mph)           iph)         12.2 km/h (7.6 mph)           mph)         27.3 km/h (17.0 mph)           mph)         27.3 km/h (17.0 mph)           mph)         N/A           and rear – optional           EPA Tier 2/EU Stage II           553 L (146 gal.)           N/A
Maximum Travel Speeds (with 29.5 R 25, 1 Star L3 tires) Range 1 Range 2 Range 2 Range 3 Range 4 Range 5 <b>Axles/Brakes</b> Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 29.5 R 25, 1 Star L3 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) <b>Tires/Wheels (see page 26 for complete tire adjustments)</b> Michelin 875/65R29, 1 Star L-3 <b>Serviceability</b> Refill Capacities Fuel Tank (with ground-level fueling) Diesel Exhaust Fluid (DEF) Cooling System	cutoff settings adjustable on switch para Standard 5-Speed with Lockup Torque Forward Reverse 7.9 km/h (4.9 mph) 7.9 km/ 13.5 km/h (8.4 mph) 13.1 km 20.9 km/h (13.0 mph) 30.7 km 30.7 km/h (19.1 mph) N/A 40.0 km/h (24.9 mph) N/A Heavy-duty mid-board planetary Hydraulic locking front with convention 26 deg. (13 deg. each direction) Outboard, forced oil cooled, multi disc Automatic spring applied, hydraulically Tread Width 2440 mm (96.1 in.) EPA FT4/EU Stage IV 534 L (141 gal.) 26.3 L (6.9 gal.) 78.75 L (83.2 qt.)	ad 2 Converter Optional 4-Speed Forward h (4.9 mph) 6.6 km/h (4.1 mp /h (8.1 mph) 12.2 km/h (7.6 m /h (19.1 mph) 18.8 km/h (11.7 m 40.5 km/h (25.2 m N/A nal rear – standard; dual locking front a Width Over Tires 3408 mm (134.2 in.) EPA Tier 3/EU Stage IIIA 553 L (146 gal.) N/A 52.4 L (55.4 qt.)	Reverse           kh)         6.6 km/h (4.1 mph)           iph)         12.2 km/h (7.6 mph)           mph)         27.3 km/h (17.0 mph)           mph)         27.3 km/h (17.0 mph)           mph)         N/A           and rear – optional           EPA Tier 2/EU Stage II           553 L (146 gal.)           N/A           52.4 L (55.4 qt.)
Maximum Travel Speeds (with 29.5 R 25, 1 Star L3 tires) Range 1 Range 2 Range 2 Range 3 Range 4 Range 5 <b>Axles/Brakes</b> Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 29.5 R 25, 1 Star L3 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) <b>Tires/Wheels (see page 26 for complete tire adjustments)</b> Michelin 875/65R29, 1 Star L-3 <b>Serviceability</b> Refill Capacities Fuel Tank (with ground-level fueling) Diesel Exhaust Fluid (DEF) Cooling System Engine Oil with Vertical Spin-On Filter	cutoff settings adjustable on switch para Standard 5-Speed with Lockup Torque Forward Reverse 7.9 km/h (4.9 mph) 7.9 km/ 13.5 km/h (8.4 mph) 13.1 km 20.9 km/h (13.0 mph) 30.7 km 30.7 km/h (19.1 mph) N/A 40.0 km/h (24.9 mph) N/A Heavy-duty mid-board planetary Hydraulic locking front with convention 26 deg. (13 deg. each direction) Outboard, forced oil cooled, multi disc Automatic spring applied, hydraulically Tread Width 2440 mm (96.1 in.) EPA FT4/EU Stage IV 534 L (141 gal.) 26.3 L (6.9 gal.) 78.75 L (83.2 qt.) 40 L (42.3 qt.)	ad 2 Converter Optional 4-Speed Forward h (4.9 mph) 6.6 km/h (4.1 mp /h (8.1 mph) 12.2 km/h (7.6 m /h (19.1 mph) 18.8 km/h (11.7 m 40.5 km/h (25.2 m N/A nal rear – standard; dual locking front a width Over Tires 3408 mm (134.2 in.) EPA Tier 3/EU Stage IIIA 553 L (146 gal.) N/A 52.4 L (55.4 qt.) 36 L (38 qt.)	Reverse           kh)         6.6 km/h (4.1 mph)           iph)         12.2 km/h (7.6 mph)           mph)         27.3 km/h (17.0 mph)           mph)         27.3 km/h (17.0 mph)           mph)         N/A           and rear – optional           EPA Tier 2/EU Stage II           553 L (146 gal.)           N/A           52.4 L (55.4 qt.)           36 L (38 qt.)
Maximum Travel Speeds (with 29.5 R 25, 1 Star L3 tires) Range 1 Range 2 Range 2 Range 3 Range 4 Range 5 <b>Axles/Brakes</b> Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 29.5 R 25, 1 Star L3 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) <b>Tires/Wheels (see page 26 for complete tire adjustments)</b> Michelin 875/65R29, 1 Star L-3 <b>Serviceability</b> Refill Capacities Fuel Tank (with ground-level fueling) Diesel Exhaust Fluid (DEF) Cooling System Engine Oil with Vertical Spin-On Filter Transmission Reservoir with Vertical Filter	cutoff settings adjustable on switch para Standard 5-Speed with Lockup Torque Forward Reverse 7.9 km/h (4.9 mph) 7.9 km/ 13.5 km/h (8.4 mph) 13.1 km 20.9 km/h (13.0 mph) 30.7 km 30.7 km/h (19.1 mph) N/A 40.0 km/h (24.9 mph) N/A Heavy-duty mid-board planetary Hydraulic locking front with convention 26 deg. (13 deg. each direction) Outboard, forced oil cooled, multi disc Automatic spring applied, hydraulically Tread Width 2440 mm (96.1 in.) EPA FT4/EU Stage IV 534 L (141 gal.) 26.3 L (6.9 gal.) 78.75 L (83.2 qt.) 40 L (42.3 qt.) 28 L (29.5 qt.)	ad Converter Optional 4-Speed Forward h (4.9 mph) 6.6 km/h (4.1 mp /h (8.1 mph) 12.2 km/h (7.6 m /h (19.1 mph) 18.8 km/h (11.7 m 40.5 km/h (25.2 m N/A nal rear – standard; dual locking front a width Over Tires 3408 mm (134.2 in.) EPA Tier 3/EU Stage IIIA 553 L (146 gal.) N/A 52.4 L (55.4 qt.) 36 L (38 qt.) 28 L (29.5 qt.)	Reverse           kh)         6.6 km/h (4.1 mph)           iph)         12.2 km/h (7.6 mph)           mph)         27.3 km/h (17.0 mph)           mph)         27.3 km/h (17.0 mph)           mph)         N/A           and rear – optional           EPA Tier 2/EU Stage II           553 L (146 gal.)           N/A           52.4 L (55.4 qt.)           36 L (38 qt.)           28 L (29.5 qt.)
Maximum Travel Speeds (with 29.5 R 25, 1 Star L3 tires) Range 1 Range 2 Range 2 Range 3 Range 4 Range 5 <b>Axles/Brakes</b> Final Drives Differentials Rear Axle Oscillation, Stop to Stop (with 29.5 R 25, 1 Star L3 tires) Service Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) Parking Brakes (conform to ISO 3450) <b>Tires/Wheels (see page 26 for complete tire adjustments)</b> Michelin 875/65R29, 1 Star L-3 <b>Serviceability</b> Refill Capacities Fuel Tank (with ground-level fueling) Diesel Exhaust Fluid (DEF) Cooling System Engine Oil with Vertical Spin-On Filter Transmission Reservoir with Vertical Filter Axle Oil (front and rear, each)	cutoff settings adjustable on switch para Standard 5-Speed with Lockup Torque Forward Reverse 7.9 km/h (4.9 mph) 7.9 km/ 13.5 km/h (8.4 mph) 13.1 km 20.9 km/h (13.0 mph) 30.7 km 30.7 km/h (19.1 mph) N/A 40.0 km/h (24.9 mph) N/A Heavy-duty mid-board planetary Hydraulic locking front with convention 26 deg. (13 deg. each direction) Outboard, forced oil cooled, multi disc Automatic spring applied, hydraulically Tread Width 2440 mm (96.1 in.) EPA FT4/EU Stage IV 534 L (141 gal.) 26.3 L (6.9 gal.) 78.75 L (83.2 qt.) 40 L (42.3 qt.)	ad 2 Converter Optional 4-Speed Forward h (4.9 mph) 6.6 km/h (4.1 mp /h (8.1 mph) 12.2 km/h (7.6 m /h (19.1 mph) 18.8 km/h (11.7 m 40.5 km/h (25.2 m N/A nal rear – standard; dual locking front a width Over Tires 3408 mm (134.2 in.) EPA Tier 3/EU Stage IIIA 553 L (146 gal.) N/A 52.4 L (55.4 qt.) 36 L (38 qt.)	Reverse           kh)         6.6 km/h (4.1 mph)           iph)         12.2 km/h (7.6 mph)           mph)         27.3 km/h (17.0 mph)           mph)         27.3 km/h (17.0 mph)           mph)         N/A           and rear – optional           EPA Tier 2/EU Stage II           553 L (146 gal.)           N/A           52.4 L (55.4 qt.)           36 L (38 qt.)



Hydraulic System/Steering	844K-II Z-BAR
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 2,250 rpm	594 L/m (157 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)	
Туре	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 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
4.8-m <sup>3</sup> (6.3 cu. yd.) spade-nose rock with teeth, seg-	4.8-m <sup>3</sup> (6.3 cu. yd.) spade-nose rock with bolt-on edge, spillguard, and wear liners
.) 3.76 m (12 ft. 4 in.)	3.76 m (12 ft. 4 in.)
2.74 m (9 ft. 0 in.)	2.74 m (9 ft. 0 in.)
463 mm (18.2 in.)	463 mm (18.2 in.)
) 1.85 m (6 ft. 1 in.)	1.85 m (6 ft. 1 in.)
.) 3.70 m (12 ft. 2 in.)	3.70 m (12 ft. 2 in.)
.) 10.06 m (33 ft. 0 in.)	9.83 m (32 ft. 3 in.)
.) 4.62 m (15 ft. 2 in.)	4.62 m (15 ft. 2 in.)
.) 3.05 m (10 ft. 0 in.)	3.21 m (10 ft. 6 in.)
) 1.80 m (5 ft. 11 in.)	1.64 m (5 ft. 4 in.)
) 2.47 m (8 ft. 1 in.)	2.38 m (7 ft. 10 in.)
93 mm (3.7 in.)	93 mm (3.7 in.)
40.5 deg.	40.5 deg.
56.3 deg.	56.3 deg.
55.2 deg.	55.2 deg.
e r .) .)	<ul> <li>4.8-m<sup>3</sup> (6.3 cu. yd.)</li> <li>4.8-m<sup>3</sup> (6.3 cu. yd.)</li> <li>spade-nose rock with teeth, seg-</li> <li>r ments, spillguard, and wear liners</li> <li>n.) 3.76 m (12 ft. 4 in.)</li> <li>2.74 m (9 ft. 0 in.)</li> <li>463 mm (18.2 in.)</li> <li>1.85 m (6 ft. 1 in.)</li> <li>n.) 10.06 m (33 ft. 0 in.)</li> <li>n.) 4.62 m (15 ft. 2 in.)</li> <li>n.) 3.05 m (10 ft. 0 in.)</li> <li>1.80 m (5 ft. 11 in.)</li> <li>2.47 m (8 ft. 1 in.)</li> <li>93 mm (3.7 in.)</li> <li>40.5 deg.</li> <li>56.3 deg.</li> </ul>

Dimensions and Specifications						
with Pin-On Bucket (continued)	844K-II Z-BAR					
	Z-Bar	Z-Bar	Z-Bar	Z-Bar	Z-Bar	Z-Bar
Specifications with Bucket	5.5-m³ (7.25 cu. yd.) general-purpose with bolt-on edge, without wear liners	5.5-m <sup>3</sup> (7.25 cu. yd.) general-purpose with bolt-on edge and wear liners	6.2-m <sup>3</sup> (8.1 cu. yd.) light-materials with bolt-on edge and optional spill- guard,* without wear liners	6.2-m <sup>3</sup> (8.1 cu. yd.) light-materials with bolt-on edge, optional spill- guard,* and wear liners	4.8-m <sup>3</sup> (6.3 cu. yd.) spade-nose rock with teeth, seg- ments, spillguard, and wear liners	4.8-m <sup>3</sup> (6.3 cu. yd.) spade-nose rock with bolt-on edge, spillguard, and wear liners
Capacity, Heaped	5.5 m <sup>3</sup> (7.25 cu. yd.)	5.5 m <sup>3</sup> (7.25 cu. yd.)	6.2 m <sup>3</sup> (8.1 cu. yd.)	6.2 m <sup>3</sup> (8.1 cu. yd.)	4.8 m <sup>3</sup> (6.3 cu. yd.)	4.8 m <sup>3</sup> (6.3 cu. yd.)
Capacity, Struck	4.7 m³ (6.2 cu. yd.)	4.7 m³ (6.2 cu. yd.)	5.6 m³ (7.3 cu. yd.)	5.6 m³ (7.3 cu. yd.)	4.1 m³ (5.4 cu. yd.)	4.1 m³ (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.)	18 680 kg (41,183 lb.)	19 222 kg (42,376 lb.)
Tipping Load, Straight, No Tire Deflection	25 281 kg (55,735 lb.)	24 984 kg (55,080 lb.)	24 811 kg (54,699 lb.)	24 529 kg (54,077 lb.)	24 515 kg (54,046 lb.)	24 700 kg (54,454 lb.)
Tipping Load, Straight, with Tire Deflection	23 502 kg (51,813 lb.)	23 221 kg (51,171 lb.)	23 046 kg (50,808 lb.)	22 770 kg (50,199 lb.)	22 734 kg (50,120 lb.)	22 932 kg (50,556 lb.)
Tipping Load, 37-deg. Partial Turn	22 299 kg (49,161 lb.)	22 002 kg (48,506 lb.)	21 859 kg (48,191 lb.)	21 577 kg (47,569 lb.)	21 518 kg (47,439 lb.)	21 703 kg (47,847 lb.)
Tipping Load, 40-deg. Full Turn, No Tire Deflection	21 816 kg (48,096 lb.)	21 519 kg (47,441 lb.)	21 381 kg (47,137 lb.)	21 099 kg (46,515 lb.)	21 033 kg (46,370 lb.)	21 218 kg (46,778 lb.)
Tipping Load, 40-deg. Full Turn, with Tire Deflection	19 677 kg (43,380 lb.)	19 389 kg (42,745 lb.)	19 260 kg (42,461 lb.)	18 984 kg (41,853 lb.)	18 894 kg (41,654 lb.)	19 092 kg (42,091 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, with Tire Deflection (conforms to ISO 14397-1)*	9839 kg (21,690 lb.)	9695 kg (21,373 lb.)	9630 kg (21,230 lb.)	9492 kg (20,926 lb.)	9447 kg (20,827 lb.)	9546 kg (21,045 lb.)
Operating Weight	34 207 kg (75,413 lb.)	34 485 kg (75,026 lb.)	34 439 kg (75,925 lb.)	34 701 kg (76,503 lb.)	34 960 kg (77,074 lb.)	34 831 kg (76,789 lb.)

Loader operating information is based on machine with identified linkage and standard equipment, PowerTech PSS 6135 (EPA Final Tier 4/EU Stage IV) 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

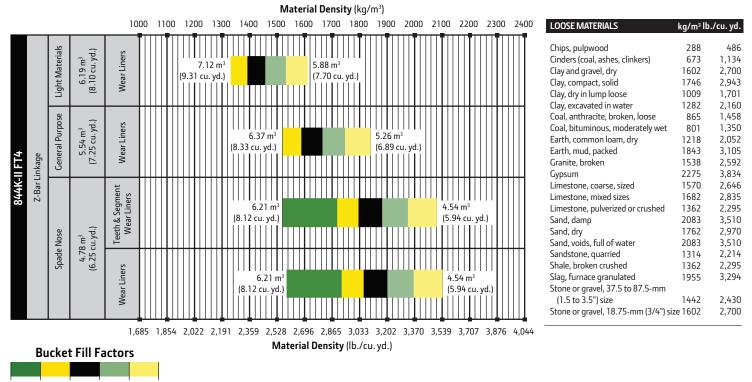
Tipping Loads with Buckets

Adjustments to operating weights, tipping loads, and tires are based on Z-Bar machine with pin-on 5.5-m<sup>3</sup> (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, 37-deg. Partial Turn	Tipping Load, 40-deg. Full Turn	Tread Width	Width Over Tires	Vertical Height
John Deere PowerTech PSS 6135	0 kg (0 lb.)	0 kg (0 lb.)	0 kg (0 lb.)	0 kg (0 lb.)	N/A	N/A	N/A
John Deere PowerTech Plus 6135H	–274 kg (–604 lb.)	+221 kg (+487 lb.)	+137 kg (+302 lb.)	+123 kg (+271 lb.)	N/A	N/A	N/A
John Deere PowerTech 6135H	–274 kg (–604 lb.)	+221 kg (+487 lb.)	+137 kg (+302 lb.)	+123 kg (+271 lb.)	N/A	N/A	N/A
Michelin 875/65R29, 1 Star L-3 <sup>g</sup>	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.)
Bridgestone 875/65R29, 1 Star L-3 <sup>®</sup>	+388 kg (+176 lb.)	+288 kg (+635 lb.)	+259 kg (+571 lb.)	+254 kg (+660 lb.)	0 mm (0 in.)	+12 mm (+0.47 in.)	+16 mm (+0.62 in.)
Michelin 29.5 R 25, 1 Star L-3	–452 kg (–996 lb.)	–336 kg (–741 lb.)	–302 kg (–666 lb.)	–296 kg (–653 lb.)	0 mm (0 in.)	–98 mm (–3.8 in.)	+3 mm (+0.11 in.)
Titan 29.5 R 25, 1 Star L-3	–392 kg (–864 lb.)	–291 kg (–642 lb.)	–262 kg (–578 lb.)	–257 kg (–567 lb.)	0 mm (0 in.)	–110 mm (–4.3 in.)	+4 mm (+0.15 in.)
Bridgestone 29.5 R 25, 1 Star L-3	–336 kg (–741 lb.)	–250 kg (–551 lb.)	–224 kg (–494 lb.)	–220 kg (–484 lb.)	0 mm (0 in.)	–97 mm (–3.8 in.)	+9 mm (+0.3 in.)
Firestone 29.5-25, 28-Ply L-3	+40 kg (+88 lb.)	+30 kg (+66 lb.)	+27 kg (+60 lb.)	+26 kg (+57 lb.)	0 mm (0 in.)	–89 mm (–3.5 in.)	–9 mm (–0.35 in.)
Bridgestone 29.5 R 25, 1 Star L-5 <sup>g</sup>	+900 kg (+1,984 lb.)	+669 kg (+1,475 lb.)	+601 kg (+1,325 lb.)	+590 kg (+1,301 lb.)	0 mm (0 in.)	–87 mm (–3.42 in.)	+45 mm (+1.77 in.)
Michelin 29.5 R 25, 1 Star L-5 $^{\text{g}}$	+356 kg (+785 lb.)	+264 kg (+582 lb.)	+238 kg (+525 lb.)	+233 kg (+514 lb.)	0 mm (0 in.)	–103 mm (–4.05 in.)	+26 mm (+1.02 in.)

\*May change based on vehicle configuration, weight, or tire-pressure adjustments. <sup>®</sup>Requires 8-deg. rear axle stops.

#### 844K-II Z-BAR



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

### Additional equipment

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

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 engine cool-down timer <sup>+</sup>
			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 <sup>™</sup> Cooling System
		•	Heavy-duty, trash-resistant radiator and high-ambient cooling
•	•	•	package
			2-side access to all coolers
٠	٠	٠	Isolated from engine compartment
			Integral engine oil cooler
٠	٠	٠	Hydraulic oil cooler (oil to air)
			Transmission oil cooler (oil to air)
٠	٠	٠	Charge air cooler (air to air)
			Coolant recovery tank
٠	٠	٠	Antifreeze, –37 deg. C (–34 deg. F)
			Cool-on-demand swing-out fan
٠	٠	٠	Enclosed fan safety guard
			Automatic reversing fan drive
٠	٠	٠	Axle and service-brake coolers
			Corrosive-environment coolers
			Hydraulics
٠	٠	٠	Automatic return-to-dig bucket positioner
			In-cab adjustable automatic boom-height kickout/return to carry

744	824	844	Hydraulics (continued)
٠	٠	٠	Reservoir with sight gauge and fill strainer
			Hydraulic diagnostic ports
٠	٠	٠	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
			Ride control, automatic with monitor-adjustable speed settings
			Hydraulic control system for quick-coupler locking pins
_	_		Steering Systems
٠	٠		Conventional steering wheel with spinner knob
		٠	Joystick steering (including conventional steering column) with gearshift, F-N-R, and horn
			Secondary steering
			Electrical
۲	۲	۲	Solid-state electrical power-distribution system
			Lockable master electrical-disconnect switch
٠	۲		By-pass start safety cover at starter
			Remote jump-start access in battery box <sup>+</sup>
٠	٠	٠	Pre-wired for beacon/strobe light
•	•	•	Lights: Halogen driving lights with guards (2) / Front (4), rear cab (2), and rear grille (2) work lights / Incandescent front turn signals and flashers (744K-II and 824K-II) / LED stop- and taillights
			Heavy-duty front LED turn signal and marker lights
			Premium LED work, drive, and marker lights
٠	۲	۲	Programmable courtesy lights
			Horn, electric
٠	٠		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, odom- eter, average fuel consumption, 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 (WB) radio with remote USB port
•		•	Premium AM/FM/WB/XM Satellite Radio <sup>™</sup> ready radio with Bluetooth®, remote auxiliary, and remote USB port
			24- to 12-volt, 8-amp converter
			24- to 12-volt, 15- or 30-amp converter and power port
†Ava	ilable	only v	vith EPA Final Tier 4/EU Stage IV engines.

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

### Additional equipment

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

744	874	844	Operator's Station
	•		Quiet Cab with air conditioning/heater (ROPS/FOPS Level 1,
			isolation mounted)
			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
•	٠	٠	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
		٠	Tilt steering column
			Operator's manual storage compartment
		•	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 (single or dual available)
			Rear camera and radar object-detection system
			LOADRITE <sup>™</sup> L2180 <sup>™</sup> Payload Scale ready
			LOADRITE L2180 Payload Scale
			Fire extinguisher
			Loader Linkage
٠	٠	٠	Z-Bar loader linkage
			High-Lift Z-Bar loader linkage
			Buckets and Attachments
			Full line of Deere pin-on buckets
			Overall Vehicle
•	•	٠	JDLink <sup>™</sup> Ultimate wireless communication system (available in
•	-		specific countries; see your dealer for details)
			NeverGrease <sup>™</sup> rear-axle oscillation

744	824	844	Overall Vehicle (continued)
			NeverGrease steering-cylinder joints
		•	Bushed pin joints (including static joints on bucket and steering cylinders)
٠	٠	٠	Front and rear tie-downs (844K-II includes mid tie-downs)
			Rear cast bumper with rear hitch and locking pin
•	٠	٠	Articulation locking bar
			Loader boom service locking bar
•	٠	٠	40-deg. steering articulation to each side with rubber-cushion stops on frame
•	•	•	Vandal protection with lockable engine enclosures, right counte weight 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 <sup>+</sup>
			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
			29.5R25 tires on 5-piece rims
			875/65R29 tires on 5-piece rims
			Waste handler (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
	٠	٠	Lift eyes
			License-plate bracket and light
			Special guarding for waste and forestry applications
†Δva	ilahle	onlv v	vith EPA Final Tier 4/EU Stage IV engines.

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





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