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

197-283 kW (264-380 hp)





Think. Big.

Serious productivity demands serious thinking. Many of the numerous advantages of the K-Series came from the brightest minds in the industry — loader owners and users such as yourself. Armed with fresh insights from this Customer Advocate Group, we equipped these productive material movers with spacious cabs, innovative low-maintenance cooling systems, fatigue-beating ergonomics, and even more options. All with the goal of increasing productivity and uptime, while lowering daily operating costs. Owners, operators, and maintenance personnel will benefit from the big ideas found in the 724K, 744K, 824K, and 844K Series-II Loaders. To learn how, read on. Then talk to your John Deere dealer.





K-Series Specifications

	724K	744K	824K	844K-II
Net Peak Power	197 kW (264 hp)	227 kW (304 hp)	248 kW (333 hp)	283 kW (380 hp)
Bucket Capacity	3.6 m³ (4.75 cu. yd.)	4.0 m³ (5.25 cu. yd.)	4.6 m³ (6.0 cu. yd.)	5.5 m³ (7.25 cu. yd.)
Z-Bar:				
Tipping Load 40-degree full turn	14 132 kg (31,155 lb.)	16 946 kg (37,360 lb.)	17 481 kg (38,538 lb.)	22 094 kg (48,708 lb.)
Breakout Force	14 398 kg (31,742 lb.)	19 416 kg (42,805 lb.)	18 718 kg (41,266 lb.)	21 674 kg (47,782 lb.)
Operating Weight	19 264 kg (42,470 lb.)	24 346 kg (53,674 lb.)	26 501 kg (58,425 lb.)	34 152 kg (75,292 lb.)

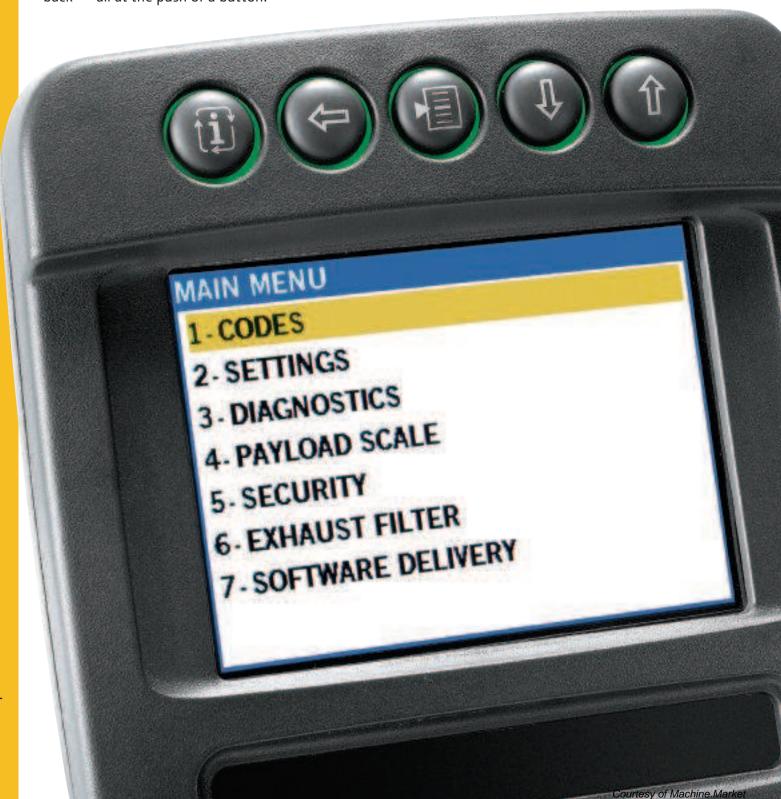
What operator wouldn't be more productive in the high-back air-ride seat of a K-Series Loader? An enhanced multifunction monitor displays operating and diagnostic info on a color LCD screen with easy-on-the-eyes clarity. Expansive tinted front glass and a low-profile console provide a commanding view 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 push-button operation of even more functions.

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 fatique. Brake and throttle pedals are conveniently positioned, allowing plenty of legroom and easy entrance and exit. Automotive-style directional louvers provide effective airflow to help keep the glass clear and pressurized cab comfortable. You'll find plenty of places to stow a coffee cup, cooler, and other items. Convenient 12-volt port powers cell phones and other electronic devices. Cab interior is noticeably quiet to help reduce operator fatique. 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.

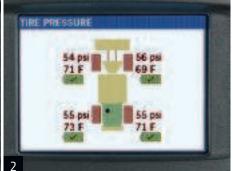


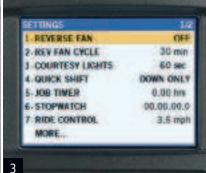
Get in touch with your productive side.

If you want to get a handle on increased productivity, put your operator behind the controls of a K-Series 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.









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

- 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.
- **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.
- **4.** Optional rearview camera provides "eyes-in-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.
- **5.** On IT4/Stage IIIB-equipped loaders, exhaust filter operation and maintenance status are indicated with warning lights and on-screen displays.



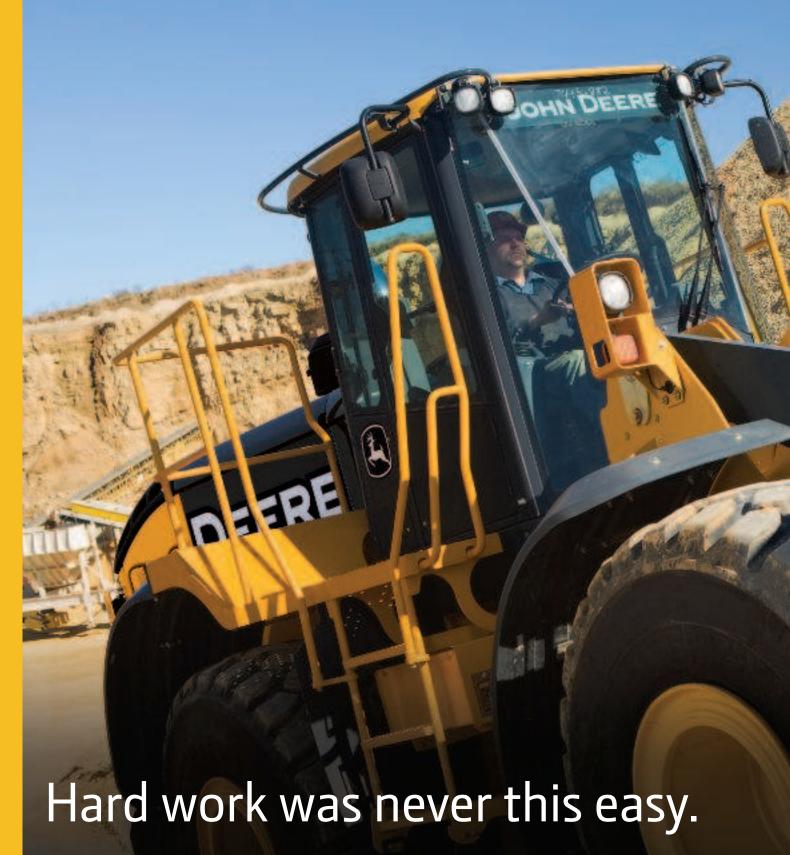




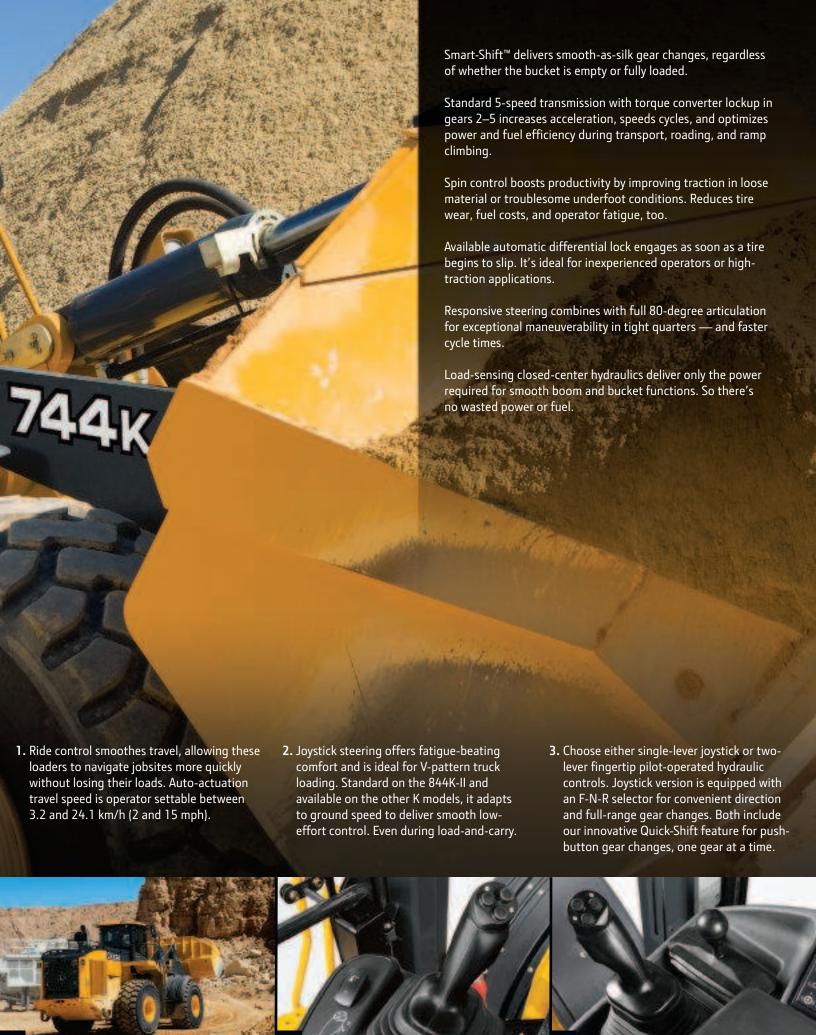


Programmable clutch cutoff increases productivity in all kinds of conditions. Engaging the brakes disconnects the transmission while maintaining high engine speed. For smooth dumps, fast cycles, and no machine rollback.

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



Big productivity shouldn't require a lot of extra effort. And it won't on a K-Series Loader. John Deere PowerTech™ diesels provide impressive acceleration and torque, along with the horsepower needed for fast and full bucket fills. 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™ transmission, maximum productivity comes naturally. To "weigh in" on which K-Series Loader is right for your operation, see your John Deere dealer.



of Machine.Market

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Explore your options.

Standard equipped with plenty of production-enhancing features, K-Series 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.



High-Lift loaders feature an optional factory-installed 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.

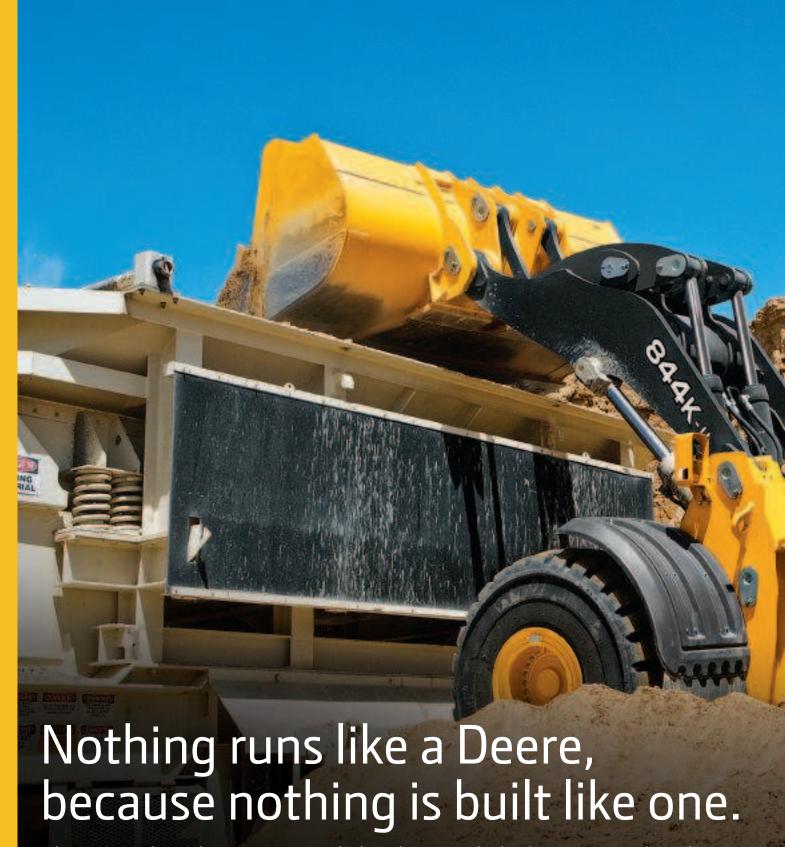
Advanced air-screen kits protect the engine and cooling system from debris while increasing airflow and preventing overheating.

With greater visibility to the work tool and an improved load path, the Hi-Vis coupler and forks (available on the 724K) help both loader and operator be more productive.

Exclusive NeverGrease™ option's lifetime sealed and lubricated roller bearings and bushings deliver consistent, extended pinjoint life.







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.



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 timeand 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 commonsense 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.



4th-function valve with auxiliary lever

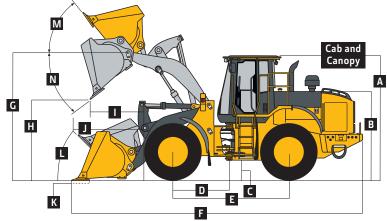
2-function valve; joystick control or fingertip controls; hydraulic-function enable/disable; optional 3rd- and

724K Z-BAR / HIGH-LIFT

Loader Controls

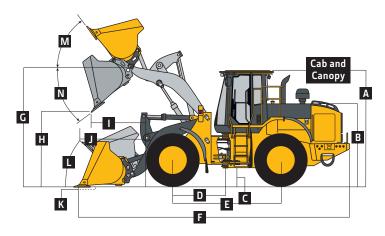


Hydraulic System/Steering (continued)	724K Z-BAR / HIGH-LIFT	
Steering (conforms to ISO 5010)		
Type	Power, fully hydraulic	
Articulation Angle	80-deg. arc (40 deg. each direction)	
Turning Radius (measured to centerline of outside tire)	5.64 m (18 ft. 6 in.)	
Hydraulic Cycle Times	Z-Bar	High-Lift
Raise	6.4 sec.	6.4 sec.
Dump	1.4 sec.	1.6 sec.
Lower (float down)	3.0 sec.	3.0 sec.
Total	10.8 sec.	11.0 sec.
Dimensions and Specifications with Pin-On Bucket		



724K Z-BAR AND HIGH-LIFT LOADERS WITH PIN-ON BUCKET

	Z-Bar	Z-Bar	High-Lift	High-Lift
Dimensions with Bucket	3.2-m³ (4.25 cu. yd.) general-purpose with bolt-on edge	3.6-m³ (4.75 cu. yd.) general-purpose with bolt-on edge	3.2-m³ (4.25 cu. yd.) general-purpose with bolt-on edge	3.6-m³ (4.75 cu. yd.) general-purpose with bolt-on edge
A Height to Top of Cab and Canopy	3.43 m (11 ft. 3 in.)			
B Hood Height	2.53 m (8 ft. 4 in.)			
C Ground Clearance	461 mm (18.1 in.)			
D Length from Centerline to Front Axle	1.60 m (5 ft. 3 in.)			
E Wheelbase	3.26 m (10 ft. 8 in.)			
F Overall Length, Bucket on Ground	8.20 m (26 ft. 11 in.)	8.31 m (27 ft. 3 in.)	8.67 m (28 ft. 5 in.)	8.78 m (28 ft. 10 in.)
G Height to Hinge Pin, Fully Raised	4.12 m (13 ft. 6 in.)	4.12 m (13 ft. 6 in.)	4.54 m (14 ft. 11 in.)	4.54 m (14 ft. 11 in.)
H Dump Clearance, 45 deg., Full Height	2.91 m (9 ft. 7 in.)	2.84 m (9 ft. 4 in.)	3.33 m (10 ft. 11 in.)	3.26 m (10 ft. 8 in.)
Reach, 45-deg. Dump, Full Height	1.06 m (3 ft. 6 in.)	1.13 m (3 ft. 9 in.)	1.19 m (3 ft. 11 in.)	1.25 m (4 ft. 1 in.)
J Reach, 45-deg. Dump, 2.13-m (7 ft. 0 in.) Clearance	1.61 m (5 ft. 3 in.)	1.67 m (5 ft. 6 in.)	2.06 m (6 ft. 9 in.)	2.12 m (6 ft. 11 in.)
K Maximum Digging Depth	123 mm (5.0 in.)	123 mm (5.0 in.)	216 mm (8.5 in.)	216 mm (8.5 in.)
L Maximum Rollback at Ground Level	41 deg.	41 deg.	42 deg.	42 deg.
M Maximum Rollback, Boom Fully Raised	55 deg.	55 deg.	47 deg.	47 deg.
N Maximum Bucket Dump Angle, Fully Raised	50 deg.	50 deg.	45 deg.	45 deg.
Loader Clearance Circle, Bucket Carry Position	13.19 m (43 ft. 3 in.)	13.25 m (43 ft. 6 in.)	13.62 m (44 ft. 8 in.)	13.68 m (44 ft. 11 in.)
Specifications with Bucket				
Capacity, Heaped	3.2 m³ (4.25 cu. yd.)	3.6 m³ (4.75 cu. yd.)	3.2 m³ (4.25 cu. yd.)	3.6 m³ (4.75 cu. yd.)
Capacity, Struck	3.0 m³ (3.5 cu. yd.)	3.2 m³ (4.2 cu. yd.)	2.8 m³ (3.7 cu. yd.)	3.2 m³ (4.2 cu. yd.)
Bucket Weight with Bolt-On Cutting Edge	1736 kg (3,827 lb.)	1822 kg (4,017 lb.)	1736 kg (3,827 lb.)	1822 kg (4,017 lb.)
Bucket Width	3.04 m (10 ft. 0 in.)			
Breakout Force	15 607 kg (34,408 lb.)	14 398 kg (31,742 lb.)	13 884 kg (30,610 lb.)	12 968 kg (28,590 lb.)
Tipping Load, Straight	16 516 kg (36,412 lb.)	16 392 kg (36,138 lb.)	13 291 kg (29,303 lb.)	13 087 kg (28,851 lb.)
Tipping Load, 40-deg. Full Turn	14 253 kg (31,421 lb.)	14 132 kg (31,155 lb.)	11 412 kg (25,160 lb.)	11 222 kg (24,740 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load (conforms to ISO 14397-1)*	7126 kg (15,711 lb.)	7066 kg (15,578 lb.)	5706 kg (12,580 lb.)	5611 kg (12,370 lb.)
Operating Weight	19 171 kg (42,265 lb.)	19 264 kg (42,470 lb.)	19 397 kg (42,763 lb.)	19 486 kg (42,959 lb.)
Loader operating information is based on machine w cab, rear cast bumper/counterweight, transmission affected by changes in tires, ballast, and different at	side-frame guards, bottom g	uards, standard tires, full fue	l tank, and 79-kg (175 lb.) op	
*Rated operating capacity based on Deere attachment		ine demection per the stand		

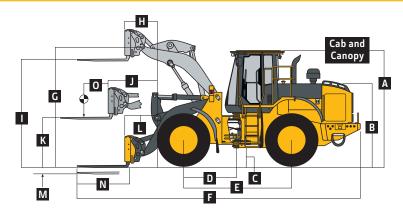


724K Z-BAR AND HIGH-LIFT LOADERS WITH QUICK-COUPLER AND HOOK-ON BUCKET

	Z-Bar	High-Lift
Dimensions with Bucket	3.1-m³ (4.0 cu. yd.) general-purpose with bolt-on edge	3.1-m³ (4.0 cu. yd.) general-purpose with bolt-on edge
A Height to Top of Cab and Canopy	3.43 m (11 ft. 3 in.)	3.43 m (11 ft. 3 in.)
B Hood Height	2.53 m (8 ft. 4 in.)	2.53 m (8 ft. 4 in.)
C Ground Clearance	461 mm (18.1 in.)	461 mm (18.1 in.)
D Length from Centerline to Front Axle	1.60 m (5 ft. 3 in.)	1.60 m (5 ft. 3 in.)
E Wheelbase	3.26 m (10 ft. 8 in.)	3.26 m (10 ft. 8 in.)
F Overall Length, Bucket on Ground	8.20 m (26 ft. 11 in.)	8.74 m (28 ft. 8 in.)
G Height to Hinge Pin, Fully Raised	4.12 m (13 ft. 6 in.)	4.54 m (14 ft. 11 in.)
H Dump Clearance, 45 deg., Full Height	2.88 m (9 ft. 6 in.)	3.11 m (10 ft. 2 in.)
Reach, 45-deg. Dump, Full Height	1.15 m (3 ft. 9 in.)	1.28 m (4 ft. 2 in.)
J Reach, 45-deg. Dump, 2.13-m (7 ft. 0 in.) Clearance	1.72 m (5 ft. 8 in.)	2.10 m (6 ft. 11 in.)
K Maximum Digging Depth	123 mm (5.0 in.)	216 mm (8.5 in.)
L Maximum Rollback at Ground Level	41 deg.	42 deg.
M Maximum Rollback, Boom Fully Raised	55 deg.	47 deg.
N Maximum Bucket Dump Angle, Fully Raised	50 deg.	45 deg.
Loader Clearance Circle, Bucket Carry Position	12.93 m (42 ft. 5 in.)	13.72 m (45 ft. 0 in.)
Specifications with Bucket		
Capacity, Heaped	3.1 m³ (4.0 cu. yd.)	3.1 m³ (4.0 cu. yd.)
Capacity, Struck	2.4 m³ (3.2 cu. yd.)	2.4 m³ (3.2 cu. yd.)
Bucket Weight with Bolt-On Cutting Edge	1764 kg (3,890 lb.)	1764 kg (3,890 lb.)
Bucket Width	2.90 m (9 ft. 6 in.)	2.90 m (9 ft. 6 in.)
Breakout Force	14 524 kg (32,019 lb.)	12 404 kg (27,346 lb.)
Tipping Load, Straight	15 110 kg (33,312 lb.)	12 122 kg (26,724 lb.)
Tipping Load, 40-deg. Full Turn	12 982 kg (28,620 lb.)	10 351 kg (22,819 lb.)
Rated Operating Load, 50% Full- Turn Tipping Load (conforms to ISO 14397-1)*	6491 kg (14,310 lb.)	5176 kg (11,410 lb.)
Operating Weight	19 562 kg (43,127 lb.)	19 788 kg (43,625 lb.)

Loader operating information is based on machine with identified linkage and standard equipment, PowerTech PVX 6090 (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.



724K Z-BAR AND HIGH-LIFT LOADERS WITH QUICK-COUPLER AND HOOK-ON CONSTRUCTION FORKS

50 in.) tine length 1 ft. 3 in.) 1 ft. 4 in.)	1.83-m (72 in.) tine length 3.43 m (11 ft. 3 in.) 2.53 m (8 ft. 4 in.)	High-Lift 1.52-m (60 in.) tine length 3.43 m (11 ft. 3 in.) 2.53 m (8 ft. 4 in.)	High-Lift 1.83-m (72 in.) tine length 3.43 m (11 ft. 3 in.)
1 ft. 3 in.) ft. 4 in.)	3.43 m (11 ft. 3 in.) 2.53 m (8 ft. 4 in.)	3.43 m (11 ft. 3 in.)	. , , ,
ft. 4 in.)	2.53 m (8 ft. 4 in.)	,	5. 15 111 (11 11. 5 111.)
			2.53 m (8 ft. 4 in.)
	461 mm (18.1 in.)	461 mm (18.1 in.)	461 mm (18.1 in.)
,	, ,	1.60 m (5 ft. 3 in.)	1.60 m (5 ft. 3 in.)
,	` '	3.26 m (10 ft. 8 in.)	3.26 m (10 ft. 8 in.)
,	,	9.35 m (30 ft. 8 in.)	9.65 m (31 ft. 8 in.)
,	` '	()	4.54 m (14 ft. 11 in.)
,	,	,	905 mm (35.6 in.)
		. ,	4.22 m (13 ft. 10.1 in.)
,	,		2.07 m (6 ft. 9.5 in.)
,	` '	, ,	1.86 m (6 ft. 1.2 in.)
•	,		1.64 m (5 ft. 4.6 in.)
,	` '	' '	181 mm (7.1 in.)
,	,	, ,	1.83 m (72 in.)
,	·	, ,	0.92 m (36 in.)
0 111.)	0.92 III (30 III.)	0.70 111 (30 111.)	0.52 111 (50 111.)
12/1 230 lb l	10 /3/4 kg (23 00/4 lb)	9521 kg (20 991 lb)	9069 kg (19,994 lb.)
			7778 kg (17,148 lb.)
			3889 kg (8,574 lb.)
10,455 10.)	4430 kg (3,312 lb.)	4000 kg (5,012 lb.)	3003 Ky (0,374 lb.)
12 E47 lb)	E20E ka (11 90/ lb)	4006 kg (10 915 lb)	4667 kg (10 200 lb)
12,547 10.)	5595 kg (11,694 lb.)	4900 kg (10,615 lb.)	4667 kg (10,289 lb.)
16,729 lb.)	7194 kg (15,859 lb.)	6541 kg (14,420 lb.)	6222 kg (13,718 lb.)
g (42,088 lb.)	19 151 kg (42,220 lb.)	19 317 kg (42,587 lb.)	19 377 kg (42,719 lb.)
	3 ft. 6 in.) 31.0 in.) 2 ft. 9.0 in.) ft. 6.0 in.) ft. 7.0 in.) ft. 10.0 in.) 0 in.) 0 in.) 2(24,239 lb.) 20,910 lb.) 10,455 lb.) 12,547 lb.)	3 ft. 6 in.) 3 ft. 6 in.) 4.12 m [13 ft. 6 in.) 31.0 in.) 788 mm [31.0 in.) 2 ft. 9.0 in.) 3.89 m [12 ft. 9.0 in.) ft. 6.0 in.) 1.68 m [5 ft. 6.0 in.) ft. 7.0 in.) 1.71 m [5 ft. 7.0 in.) ft. 10.0 in.) 0 in.) 89 mm [4.0 in.) 0 in.) 0 in.) 0 in.) 0 in.) 0 in.) 1.83 m [72 in.) 0 in.) 0 in.) 2(24,239 lb.) 10 434 kg (23,004 lb.) 20,910 lb.) 8992 kg [19,824 lb.) 10,455 lb.) 4496 kg [9,912 lb.] 12,547 lb.) 5395 kg [11,894 lb.) 16,729 lb.) 7194 kg [15,859 lb.)	3 ft. 6 in.) 3 ft. 6 in.) 4.12 m [13 ft. 6 in.) 4.54 m [14 ft. 11 in.] 31.0 in.) 788 mm [31.0 in.) 905 mm [35.6 in.) 4.22 m [13 ft. 10.1 in.) 4.22 m [13 ft. 10.1 in.) 4.22 m [16 ft. 9.5 in.] 4.22 m [6 ft. 9.5 in.] ft. 6.0 in.) 1.68 m [5 ft. 6.0 in.) 2.07 m [6 ft. 9.5 in.] ft. 7.0 in.) 1.71 m [5 ft. 7.0 in.) 1.86 m [6 ft. 1.2 in.] ft. 10.0 in.) 1.17 m [3 ft. 10.0 in.) 1.64 m [5 ft. 4.6 in.] 0 in.) 90 in.) 1.83 m [72 in.] 1.52 m [60 in.] 0.76 m [30 in.] 3 [24,239 lb.) 10 434 kg (23,004 lb.) 20,910 lb.) 8992 kg [19,824 lb.) 10,455 lb.) 4496 kg [9,912 lb.] 4088 kg [9,012 lb.] 12,547 lb.) 5395 kg [11,894 lb.) 4906 kg [10,815 lb.] 16,729 lb.) 7194 kg [15,859 lb.) 6541 kg [14,420 lb.)

Loader operating information is based on machine with identified linkage and standard equipment, PowerTech PVX 6090 (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.

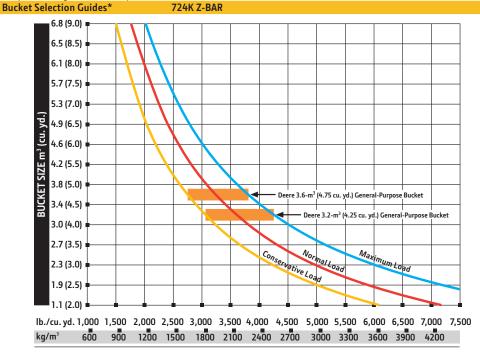
^{*}Rated operating capacity based on Deere attachments only.

Adjustments to operating weights, tipping loads, and tires are based on Z-bar machine with pin-on 3.6-m³ (4.75 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*

operato.						
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 PVX 6090	0 kg (0 lb.)	0 kg (0 lb.)	0 kg (0 lb.)	N/A	N/A	N/A
John Deere PowerTech Plus 6090H	–111 kg (–245 lb.)	–84 kg (–185 lb.)	–83 kg (–183 lb.)	N/A	N/A	N/A
John Deere PowerTech 6090H	-105 kg (-232 lb.)	–74 kg (–163 lb.)	–74 kg (–163 lb.)	N/A	N/A	N/A
Michelin 23.5 R 25, 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.)
Goodyear 23.5 R 25, 1 Star L-3	+12 kg (+26 lb.)	+9 kg (+20 lb.)	+8 kg (+17 lb.)	0 mm (0 in.)	-5 mm (-0.2 in.)	+12 mm (+0.5 in.)
Titan 23.5 R 25, 1 Star L-3	+12 kg (+26 lb.)	+9 kg (+20 lb.)	+8 kg (+17 lb.)	0 mm (0 in.)	-48 mm (-1.9 in.)	+10 mm (+0.4 in.)
Bridgestone 23.5 R 25, 1 Star L-3	+116 kg (+256 lb.)	+86 kg (+190 lb.)	+76 kg (+167 lb.)	0 mm (0 in.)	–28 mm (–1.1 in.)	+17 mm (+0.7 in.)
Titan 23.5-25, 20 PR L-3	–156 kg (–343 lb.)	–115 kg (–255 lb.)	–102 kg (–224 lb.)	0 mm (0 in.)	+27 mm (+1.1 in.)	0 mm (0 in.)
Titan 725/70-25, 16-Ply L-4T (Logger Style) ^{†B}	+266 kg (+587 lb.)	+208 kg (+459 lb.)	+183 kg (+404 lb.)	+37 mm (+1.5 in.)	+95 mm (+3.7 in.)	+49 mm (+1.9 in.)
Michelin 750/65 R 25, 1 Star L-3T ^{+B}	+622 kg (+1,371 lb.)	+472 kg (+1,041 lb.)	+416 kg (+917 lb.)	+37 mm (+1.5 in.)	+158 mm (+6.2 in.)	+12 mm (+0.5 in.)

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

[®]Requires 9-deg. rear axle stops.

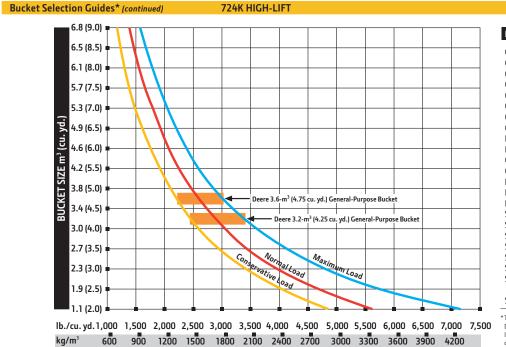


724K Z-BAR LOADER WITH PIN-ON BUCKET

LOOSE MATERIALS	kg/m³ 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") si:	ze 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.

[†]Equipped with 5-piece heavy-duty rims.



77/1/ UICU I IE	Γ I OADFR WITH PIN:	ON DIICKET
//4K	I I WADER WILD FIN	- ו אווות מווו ארו

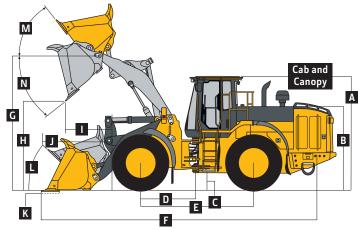
LOOSE MATERIALS	kg/m³ lb	./cu. yd.
Chips, pulpwood	288	486
Cinders (coal, ashes, clinkers)	673	1,134
Clay and gravel, dry	1602	2,700
Clay, compact, solid	1746	2,943
Clay, dry in lump loose	1009	1,701
Clay, excavated in water	1282	2,160
Coal, anthracite, broken, loose	865	1,458
Coal, bituminous, moderately 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") siz	ze 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.

Engine	744K Z-BAR / HIGH-LIFT			
Manufacturer and Model	John Deere PowerTech™ PSX 6090	John Deere Powe	rTech™ Plus 6090H	John Deere PowerTech™ 6090H
Non-Road Emission Standard	EPA Interim Tier 4/EU Stage IIIB	EPA Tier 3/EU Sta	ige 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)			227 kW (304 hp) at 1,500 rpm	
Net Peak Torque (ISO 9249)	1456 Nm (1,074 lbft.) at 1,400 rpm 1456 Nm (1,074 lbft.) at 1,400 rpm		1456 Nm (1,074 lbft.) at 1,400 rpm	
Net Torque Rise	47%	47%	,,	47%
Fuel System (electronically controlled)	High-pressure common rail	High-pressure co	mmon rail	High-pressure common rail
Lubrication	Full-flow spin-on filter and integra		filter and integral	Full-flow spin-on filter and integral
	cooler	cooler	inter and integral	cooler
Aspiration	Series turbocharged, charge air co		arge air cooled	Turbocharged, charge air cooled
Air Cleaner	Under-hood, dual-element dry typ		I-element dry type,	Under-hood, dual-element dry type,
741 Cicarici	restriction indicator in cab monito		tor in cab monitor	restriction indicator in cab monitor
	for service	for service	tor in cab monitor	for service
Fan Drive	Hydraulically driven, proportionall		en, proportionally	Hydraulically driven, proportionally
Tall Blive	controlled, fan aft of coolers	controlled, fan af		controlled, fan aft of coolers
Electrical System	24 volt with 100-amp (130-amp	24 volt with 100-		24 volt with 100-amp alternator
Licetifical System	optional) alternator	24 Voit With 100	amp atternator	2 1 voit with 100 amp atternator
Batteries (2 – 12 volt)	1,400 CCA (each)	1,400 CCA (each)		1,400 CCA (each)
Transmission System	i, iso con (cacil)	i, iou con (edili)		i, ioo con (cacii)
Type	Countershaft-type PowerShift™			
Torque Converter	Single stage, dual phase with free	wheeling stator		
Shift Control	Electronically modulated, adaptive		ont.	
	Steering-column or joystick-moun			
Operator Interface	, ,			•
Shift Modes		lick-snift button with 2 s	electable modes: kick-d	own or kick-up/down; and 3 adjustable
	clutch-cutoff settings	C	0-4:1/. 51	
Marine Teach County (19th 20 F. D. 25 1 Steel 2 (19th 20 F	Standard 5-Speed with Lockup To		Optional 4-Speed	D
Maximum Travel Speeds (with 26.5 R 25, 1 Star L3 tires)		verse	Forward	Reverse
Range 1	•	+ km/h (4.6 mph)	6.6 km/h (4.1 mph)	
Range 2	·	.3 km/h (8.9 mph)	13.8 km/h (8.6 mp	
Range 3	•	.3 km/h (20.1 mph)	20.8 km/h (12.9 m)	
Range 4	32.2 km/h (20.0 mph) N/		40.0 km/h (24.9 m	
Range 5	40.0 km/h (24.9 mph) N/	A	N/A	N/A
Axles/Brakes				
Final Drives	Heavy-duty inboard-mounted plan			
Differentials	Hydraulic locking front with conve	ntional rear – standard; (dual locking front and r	ear – optional
Rear Axle Oscillation, Stop to Stop (with 23.5 R 25,	26 deg. (13 deg. each direction)			
1 Star L3 tires)				6
Service Brakes (conform to ISO 3450)	Hydraulically actuated, inboard su	•		e disc
Parking Brakes (conform to ISO 3450)	Automatic spring applied, hydrauli	cally released, oil cooled	multi disc	
Tires/Wheels (see page 24 for complete tire adjustments)				
	Tread Width	Width Over Tires		
Michelin 26.5 R 25, 1 Star L-3	2298 mm (90.5 in.)	3065 mm (120.7	in.)	
Serviceability				
Serviceasiney		EPA Tier 3/EU Sta	ae IIIA	EPA Tier 2/EU Stage II
Refill Capacities	EPA IT4/EU Stage IIIB	2171 1101 37 20 310	J -	
	EPA IT4/EU Stage IIIB 492 L (130 gal.)	469 L (124 gal.)	J.	469 L (124 gal.)
Refill Capacities	-		3	469 L (124 gal.) 44.8 L (47.3 qt.)
Refill Capacities Fuel Tank (with ground-level fueling)	492 L (130 gal.)	469 L (124 gal.)	•	
Refill Capacities Fuel Tank (with ground-level fueling) Cooling System	492 L (130 gal.) 50.3 L (53.2 qt.)	469 L (124 gal.) 44.8 L (47.3 qt.)		44.8 L (47.3 qt.)
Refill Capacities Fuel Tank (with ground-level fueling) Cooling System Engine Oil with Vertical Spin-On Filter	492 L (130 gal.) 50.3 L (53.2 qt.) 34 L (36 qt.)	469 L (124 gal.) 44.8 L (47.3 qt.) 34 L (36 qt.)		44.8 L (47.3 qt.) 34 L (36 qt.)
Refill Capacities Fuel Tank (with ground-level fueling) Cooling System Engine Oil with Vertical Spin-On Filter Transmission Fluid with Vertical Filter Axle Oil (front and rear, each)	492 L (130 gal.) 50.3 L (53.2 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.)	469 L (124 gal.) 44.8 L (47.3 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.)		44.8 L (47.3 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.)
Refill Capacities Fuel Tank (with ground-level fueling) Cooling System Engine Oil with Vertical Spin-On Filter Transmission Fluid with Vertical Filter	492 L (130 gal.) 50.3 L (53.2 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.)	469 L (124 gal.) 44.8 L (47.3 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.)		44.8 L (47.3 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.)
Refill Capacities Fuel Tank (with ground-level fueling) Cooling System Engine Oil with Vertical Spin-On Filter Transmission Fluid with Vertical Filter Axle Oil (front and rear, each) Hydraulic Reservoir and Filter Park Brake Oil (wet disc)	492 L (130 gal.) 50.3 L (53.2 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.)	469 L (124 gal.) 44.8 L (47.3 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.)		44.8 L (47.3 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.)
Refill Capacities Fuel Tank (with ground-level fueling) Cooling System Engine Oil with Vertical Spin-On Filter Transmission Fluid with Vertical Filter Axle Oil (front and rear, each) Hydraulic Reservoir and Filter Park Brake Oil (wet disc) Hydraulic System/Steering	492 L (130 gal.) 50.3 L (53.2 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.) 0.7 L (24 oz.)	469 L (124 gal.) 44.8 L (47.3 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.) 0.7 L (24 oz.)	,	44.8 L (47.3 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.)
Refill Capacities Fuel Tank (with ground-level fueling) Cooling System Engine Oil with Vertical Spin-On Filter Transmission Fluid with Vertical Filter Axle Oil (front and rear, each) Hydraulic Reservoir and Filter Park Brake Oil (wet disc) Hydraulic System/Steering Pump (loader and steering)	492 L (130 gal.) 50.3 L (53.2 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.) 0.7 L (24 oz.) 2 variable-displacement, load-sens	469 L (124 gal.) 44.8 L (47.3 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.) 0.7 L (24 oz.)	,	44.8 L (47.3 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.)
Refill Capacities Fuel Tank (with ground-level fueling) Cooling System Engine Oil with Vertical Spin-On Filter Transmission Fluid with Vertical Filter Axle Oil (front and rear, each) Hydraulic Reservoir and Filter Park Brake Oil (wet disc) Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and	492 L (130 gal.) 50.3 L (53.2 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.) 0.7 L (24 oz.)	469 L (124 gal.) 44.8 L (47.3 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.) 0.7 L (24 oz.)	,	44.8 L (47.3 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.)
Refill Capacities Fuel Tank (with ground-level fueling) Cooling System Engine Oil with Vertical Spin-On Filter Transmission Fluid with Vertical Filter Axle Oil (front and rear, each) Hydraulic Reservoir and Filter Park Brake Oil (wet disc) Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,350 rpm	492 L (130 gal.) 50.3 L (53.2 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.) 0.7 L (24 oz.) 2 variable-displacement, load-sens	469 L (124 gal.) 44.8 L (47.3 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.) 0.7 L (24 oz.)	,	44.8 L (47.3 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.)
Refill Capacities Fuel Tank (with ground-level fueling) Cooling System Engine Oil with Vertical Spin-On Filter Transmission Fluid with Vertical Filter Axle Oil (front and rear, each) Hydraulic Reservoir and Filter Park Brake Oil (wet disc) Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,350 rpm System Relief Pressure (loader and steering)	492 L (130 gal.) 50.3 L (53.2 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.) 0.7 L (24 oz.) 2 variable-displacement, load-sens 515 L/m (136 gpm) 22 670 kPa (3,288 psi)	469 L (124 gal.) 44.8 L (47.3 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.) 0.7 L (24 oz.) sing axial-piston pumps;	closed-center system	44.8 L (47.3 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.) 0.7 L (24 oz.)
Refill Capacities Fuel Tank (with ground-level fueling) Cooling System Engine Oil with Vertical Spin-On Filter Transmission Fluid with Vertical Filter Axle Oil (front and rear, each) Hydraulic Reservoir and Filter Park Brake Oil (wet disc) Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,350 rpm	492 L (130 gal.) 50.3 L (53.2 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.) 0.7 L (24 oz.) 2 variable-displacement, load-sens 515 L/m (136 gpm) 22 670 kPa (3,288 psi) 2-function valve; single- or dual-le	469 L (124 gal.) 44.8 L (47.3 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.) 0.7 L (24 oz.) sing axial-piston pumps;	closed-center system	44.8 L (47.3 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.)
Refill Capacities Fuel Tank (with ground-level fueling) Cooling System Engine Oil with Vertical Spin-On Filter Transmission Fluid with Vertical Filter Axle Oil (front and rear, each) Hydraulic Reservoir and Filter Park Brake Oil (wet disc) Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,350 rpm System Relief Pressure (loader and steering) Loader Controls	492 L (130 gal.) 50.3 L (53.2 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.) 0.7 L (24 oz.) 2 variable-displacement, load-sens 515 L/m (136 gpm) 22 670 kPa (3,288 psi)	469 L (124 gal.) 44.8 L (47.3 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.) 0.7 L (24 oz.) sing axial-piston pumps;	closed-center system	44.8 L (47.3 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.) 0.7 L (24 oz.)
Refill Capacities Fuel Tank (with ground-level fueling) Cooling System Engine Oil with Vertical Spin-On Filter Transmission Fluid with Vertical Filter Axle Oil (front and rear, each) Hydraulic Reservoir and Filter Park Brake Oil (wet disc) Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,350 rpm System Relief Pressure (loader and steering) Loader Controls Steering (conforms to ISO 5010)	492 L (130 gal.) 50.3 L (53.2 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.) 0.7 L (24 oz.) 2 variable-displacement, load-sens 515 L/m (136 gpm) 22 670 kPa (3,288 psi) 2-function valve; single- or dual-leauxiliary levers	469 L (124 gal.) 44.8 L (47.3 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.) 0.7 L (24 oz.) sing axial-piston pumps;	closed-center system	44.8 L (47.3 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.) 0.7 L (24 oz.)
Refill Capacities Fuel Tank (with ground-level fueling) Cooling System Engine Oil with Vertical Spin-On Filter Transmission Fluid with Vertical Filter Axle Oil (front and rear, each) Hydraulic Reservoir and Filter Park Brake Oil (wet disc) Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,350 rpm System Relief Pressure (loader and steering) Loader Controls Steering (conforms to ISO 5010) Type	492 L (130 gal.) 50.3 L (53.2 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.) 0.7 L (24 oz.) 2 variable-displacement, load-sens 515 L/m (136 gpm) 22 670 kPa (3,288 psi) 2-function valve; single- or dual-leauxiliary levers Power, fully hydraulic	469 L (124 gal.) 44.8 L (47.3 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.) 0.7 L (24 oz.) sing axial-piston pumps;	closed-center system	44.8 L (47.3 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.) 0.7 L (24 oz.)
Refill Capacities Fuel Tank (with ground-level fueling) Cooling System Engine Oil with Vertical Spin-On Filter Transmission Fluid with Vertical Filter Axle Oil (front and rear, each) Hydraulic Reservoir and Filter Park Brake Oil (wet disc) Hydraulic System/Steering Pump (loader and steering) Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,350 rpm System Relief Pressure (loader and steering) Loader Controls Steering (conforms to ISO 5010)	492 L (130 gal.) 50.3 L (53.2 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.) 0.7 L (24 oz.) 2 variable-displacement, load-sens 515 L/m (136 gpm) 22 670 kPa (3,288 psi) 2-function valve; single- or dual-leauxiliary levers	469 L (124 gal.) 44.8 L (47.3 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.) 0.7 L (24 oz.) sing axial-piston pumps;	closed-center system	44.8 L (47.3 qt.) 34 L (36 qt.) 27.9 L (29.5 qt.) 46 L (49 qt.) 159 L (42 gal.) 0.7 L (24 oz.)



Hydraulic System/Steering (continued)	744K Z-BAR / HIGH-LIFT		
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 Din On Bu	ckot		



744K Z-BAR AND HIGH-LIFT LOADERS WITH PI	IN-ON BUCKET

	Z-Bar	Z-Bar	Z-Bar	Z-Bar	Z-Bar	High-Lift
Dimensions with Bucket			4.0-m³ (5.25 cu. yd.)			
	4.0-m³ (5.25 cu. yd.) general-purpose with bolt-on edge	4.4-m³ (5.75 cu. yd.) light-material with bolt-on edge	general-purpose with teeth and segments	4.4-m³ (5.75 cu. yd.) light-material with teeth and segments	4.4-m³ (5.75 cu. yd.) light-material with JAGZ™	4.0-m³ (5.25 cu. yo general-purpose with bolt-on edge
A Height to Top of Cab and Canopy	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 ir
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 i
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 i
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 i
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 i
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 i
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	14.07 m	14.12 m	14.18 m	14.01 m	14.59 m
	(46 ft. 0 in.)	(46 ft. 2 in.)	(46 ft. 4 in.)	(46 ft. 6 in.)	(46 ft. 0 in.)	(47 ft. 10 in.)
Specifications with Bucket						
Capacity, Heaped	4.0 m³ (5.25 cu. yd.)	4.4 m³ (5.75 cu. yd.)	4.0 m³ (5.25 cu. yd.)	4.4 m³ (5.75 cu. yd.)	4.0 m³ (5.25 cu. yd.)	4.0 m ³ (5.25 cu. y
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. yo
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 ll
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 i
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	19 678 kg (43,383 lb.)	19 482 kg (42,950 lb.)	19 511 kg (43,013 lb.)	19 312 kg (42,576 lb.)	19 650 kg (43,321 lb.)	15 559 kg (34,303 lb.)
Tipping Load, 37-deg. Partial Turn	17 327 kg (38,199 lb.)	17 143 kg (37,793 lb.)	17 159 kg (37,829 lb.)	16 973 kg (37,419 lb.)	17 299 kg (38,137 lb.)	13 614 kg (30,013 lb.)
Tipping Load, 40-deg. Full Turn	16 946 kg (37,360 lb.)	16 764 kg (36,958 lb.)	16 778 kg (36,990 lb.)	16 594 kg (36,584 lb.)	16 918 kg (37,298 lb.)	13 299 kg (29,319 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load (conforms to ISO 14397-1)*	8473 kg (18,680 lb.)	8382 kg (18,479 lb.)	8389 kg (18,495 lb.)	8297 kg (18,292 lb.)	8459 kg (18,649 lb.)	6650 kg (14,660
Operating Weight	24 346 kg (53,674 lb.)	24 425 kg (53,847 lb.)	24 472 kg (53,952 lb.)	24 551 kg (54,125 lb.)	24 368 kg (53,722 lb.)	24 897 kg (54,889 lb.)

Loader operating information is based on machine with identified linkage and standard equipment, PowerTech PSX 6090 (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.

and Tipping Loads with Buckets

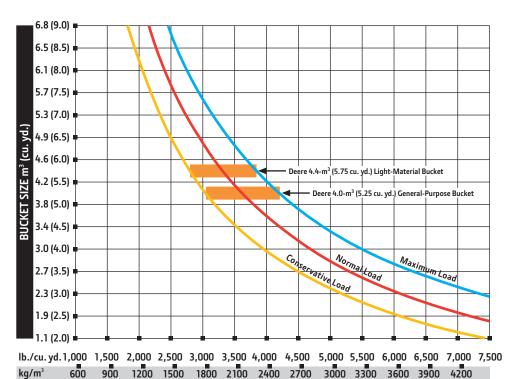
744K Z-BAR / HIGH-LIFT

Adjustments to operating weights, tipping loads, and tires are based on Z-bar machine with pin-on 4.0-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*

			Tipping Load,	Tipping Load,			
Add (+) or deduct (–) kg (lb.) as indi-	Operating	Tipping Load,	37-deg. Partial	40-deg. Full			
cated for loaders with 3-piece rims	Weight	Straight	Turn SAE	Turn SAE	Tread Width	Width Over Tires	Vertical Height
John Deere PowerTech PSX 6090	0 kg (0 lb.)	N/A	N/A	N/A			
John Deere PowerTech Plus 6090H	+65 kg (+143 lb.)	+65 kg (+143 lb.)	+316 kg (+697 lb.)	+299 kg (+659 lb.)	N/A	N/A	N/A
John Deere PowerTech 6090H	+59 kg (+130 lb.)	+367 kg (+809 lb.)	+307 kg (+677 lb.)	+290 kg (+639 lb.)	N/A	N/A	N/A
Michelin 26.5 R 25, 2 Star L-3	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 mm (0 in.)	0 mm (0 in.)	0 mm (0 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.)	0 mm (0 in.)	0 mm (0 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.)	–5 mm (–0.2 in.)	+36 mm (+1.4 in.)
Firestone 26.5-25, 20-Ply L-5 ^g	+312 kg (+688 lb.)	+222 kg (+490 lb.)	+199 kg (+440 lb.)	+196 kg (+432 lb.)	0 mm (0 in.)	–5 mm (–0.2 in.)	+60 mm (+2.4 in.)

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

Bucket Selection Guides* 744K Z-BAR

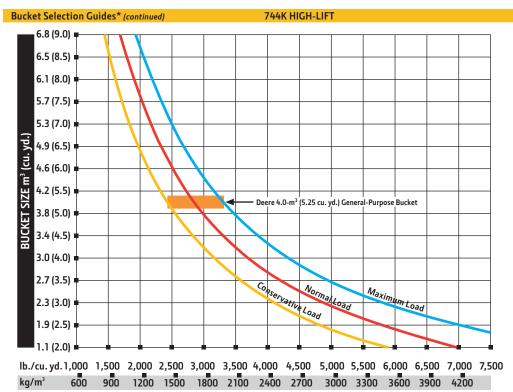


744K Z-BAR LOADER WITH PIN-ON BUCKET

LOOSE MATERIALS	kg/m³ 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") si	ze 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.

^BRequires 8-deg. rear axle stops.



744K HIGH-LIFT LOADER WITH PIN-ON BUCKET

LOOSE MATERIALS	kg/m³ 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") siz	ze 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.

Loader Controls

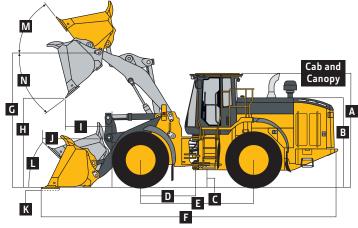


Engine	824K Z-BAR / HIGH-LIFT				
Manufacturer and Model	John Deere PowerTech™ PSX 61	35 John Deere Poy	verTech™ Plus 6135H	John Deere Powe	rTech™ 6135H
Non-Road Emission Standard	EPA Interim Tier 4/EU Stage IIIB	EPA Tier 3/EU S		EPA Tier 2/EU Sta	
			lage IIIA		ge ii
Cylinders	6	6		6	
Valves Per Cylinder	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)	248 kW (333 hp) at 1,600 rpm	248 kW (333 h	o) at 1,600 rpm	248 kW (333 hp)	at 1,600 rpm
Net Peak Torque (ISO 9249)	1619 Nm (1,194 lbft.) at 900 r		4 lbft.) at 900 rpm	1619 Nm (1,194 l	
Net Torque Rise	55%	55%		55%	J. 11., 41 300 . p
•			stuated electronic	Mechanically actu	atad alastronis
Fuel System	Mechanically actuated electroni		ctuated electronic		iated electronic
	unit injectors	unit injectors	61 1. 1	unit injectors	61 1.
Lubrication	Full-flow spin-on filter and integ		on filter and integral	Full-flow spin-on	filter and integr
	cooler	cooler		cooler	
Aspiration	Series turbocharged, charge air	Turbocharged,	charge air cooled	Turbocharged, ch	arge air cooled
	cooled				
Air Cleaner	Under-hood, dual-element dry ty	ne. Under-hood, di	ual-element dry type,	Under-hood, dual	-element dry ty:
	restriction indicator in cab moni		cator in cab monitor	restriction indicat	
	for service	for service	tator in cab informed	for service	or iii cab iiioiiii
Fan Driva			ivon proportionally		
Fan Drive	Hydraulically driven, proportion controlled, fan aft of coolers		riven, proportionally	Hydraulically drive controlled, fan af	en, proportiona
Floridad Colonia		controlled, fan			
Electrical System	24 volt with 100-amp (130-amp	24 volt with 10	0-amp alternator	24 volt with 100-	amp alternator
	optional) alternator				
Batteries (2 – 12 volt)	1,400 CCA (each)	1,400 CCA (eac	h)	1,400 CCA (each)	
Transmission System					
Туре	Countershaft-type PowerShift™				
Torque Converter	Single stage, dual phase with fre	ewheeling stator			
Shift Control	Electronically modulated, adapt		dont		
				·6.1 · · · 1 · 1	19. 1
Operator Interface	Steering-column or joystick-mou				
Shift Modes	Manual/auto (1st–D or 2nd–D);		th 2 selectable modes	s: kick-down or kick	-up/down; and
	3 adjustable clutch-cutoff settir				
	Standard 5-Speed with Lockup	Torque Converter	Optional 4-Speed	1	
Maximum Travel Speeds (with 26.5 R 25, 1 Star	Forward Rev	erse	Forward	Reverse	
L3 tires)					
Range 1	8.3 km/h (5.2 mph) 8.3	km/h (5.2 mph)	7.4 km/h (4.6 mp	h) 7.4 km/	h (4.6 mph)
3		0 km/h (8.7 mph)	13.8 km/h (8.6 m		/h (8.6 mph)
Range 2					
Range 3	. ,	9 km/h (21.1 mph)	21.0 km/h (13.1 r		/h (18.7 mph)
Range 4	33.9 km/h (21.1 mph) N/A		40.0 km/h (24.9 r		
Range 5	40.0 km/h (24.9 mph) N/A	1	N/A	N/A	
Axles/Brakes					
Final Drives	Heavy-duty inboard-mounted pl	anetary			
Differentials	Hydraulic locking front with con		dard: dual locking from	nt and rear – ontion	ıal
		ventional real – Stair	aaru, duar lockilig irol	iit ailu leai – optioi	iai
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, inboard			f-adjusting, single o	lisc
Parking Brakes (conform to ISO 3450)	Automatic spring applied, hydra	ulically released, oil c	ooled, multi disc		
Tires/Wheels (see page 28 for complete tire adjustments)					
	Tread Width	Width Over Tir	25		
Michelin 26.5 R 25, 1 Star L-3	2298 mm (90.5 in.)	3065 mm (120			
,	2250 mm (50.5 m.)	5005 11111 (120	7 111.]		
Serviceability	EDA ITA/EU Standa IUD	EDATE: 3/EU/	'+ IIIA	EDA TILLO /ELLC:	II
Refill Capacities	EPA IT4/EU Stage IIIB	EPA Tier 3/EU S	-	EPA Tier 2/EU Sta	-
Fuel Tank (with ground-level fueling)	469.4 L (124 gal.)	469.4 L (124 g		469.4 L (124 gal.)	
Cooling System	73.8 L (78 qt.)	47.4 L (50.1 qt	.)	47.4 L (50.1 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	27.9 L (29.5 qt.)	27.9 L (29.5 qt)	27.9 L (29.5 qt.)	
Axle Oil (front and rear, each)	27.9 L (29.5 qt.)	27.9 L (29.5 qt		27.9 L (29.5 qt.)	
, ,			1		
Hydraulic Reservoir and Filter	159 L (42 gal.)	159 L (42 gal.)		159 L (42 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-se	ensing axial-piston pu	mps; closed-center s	/stem	
Maximum Rated Flow at 6895 kPa (1,000 psi)	513 L/m (136 gpm)				
and 2,350 rpm					
System Relief Pressure (loader and steering)	25 166 kPa (3,650 psi)				
Loader Controls	2-function valve: single- or dual	lavan asakirila ara-t	allawan la al conference		J /. 1 E
nager I Ontrois	\=tiluction valve, cindle- or diral	-iever controls, contr	ni jever jockolit teatili	e ontional 3rd- an	4TD_tunction

2-function valve; single- or dual-lever controls; control lever lockout feature; optional 3rd- and 4th-function valve with auxiliary levers



Hydraulic System/Steering (continued)	824K Z-BAR / HIGH-LIFT	
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 Z-BAR AND HIGH-LIFT LOADERS WITH PIN-ON BUCKET

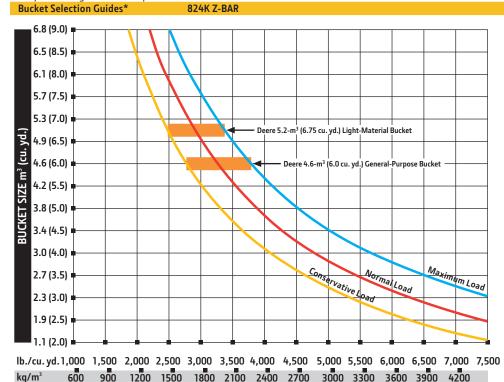
	Z-Bar	Z-Bar	High-Lift	High-Lift
Dimensions with Bucket			_	4.6-m³ (6.0 cu. yd.) genera
	4.6-m³ (6.0 cu. yd.) general-	5.2-m³ (6.75 cu. yd.) light-	4.6-m³ (6.0 cu. yd.) general-	purpose with teeth and
	purpose with bolt-on edge	material with bolt-on edge	purpose with bolt-on edge	segments
A Height to Top of Cab and Canopy	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.)
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.)
Reach, 45-deg. Dump, 2.13-m (7 ft. 0 in.) Clearance	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.)
K Maximum Digging Depth	115 mm (4.5 in.)	115 mm (4.5 in.)	196 mm (7.7 in.)	196 mm (7.7 in.)
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.)
Specifications with Bucket				
Capacity, Heaped	4.6 m³ (6.0 cu. yd.)	5.2 m³ (6.75 cu. yd.)	4.6 m³ (6.0 cu. yd.)	4.6 m³ (6.0 cu. yd.)
Capacity, Struck	4.0 m³ (5.25 cu. yd.)	4.4 m³ (5.8 cu. yd.)	4.0 m³ (5.25 cu. yd.)	4.0 m ³ (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	20 369 kg (44,907 lb.)	20 082 kg (44,274 lb.)	17 105 kg (37,711 lb.)	16 994 kg (37,465 lb.)
Tipping Load, 40-deg. Full Turn	17 481 kg (38,538 lb.)	17 213 kg (37,949 lb.)	14 593 kg (32,172 lb.)	14 527 kg (32,027 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load (conforms to ISO 14397-1)*	8741 kg (19,270 lb.)	8606 kg (18,974 lb.)	7295 kg (16,086 lb.)	7263 kg (16,013 lb.)
Operating Weight	26 501 kg (58,425 lb.)	26 625 kg (58,698 lb.)	26 889 kg (59,279 lb.)	26 973 kg (59,465 lb.)
Loader operating information is based on machine w	vith identified linkage and star	ndard equipment, PowerTech	PSX 6135 (EPA Interim Tier 4)	/EU Stage IIIB) engine, RO
cab, rear cast bumper/counterweight, transmission affected by changes in tires, ballast, and different a				erator. This information i
*Pated apprating capacity based on Doors attachment	to only			

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

Add (+) or deduct (–) kg (lb.) as indi-		Tipping Load,	Tipping Load, 40-			
cated for loaders with 3-piece rims	Operating Weight	Straight	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	+67 kg (+147 lb.)	+258 kg (+569 lb.)	+208 kg (+459 lb.)	N/A	N/A	N/A
John Deere PowerTech 6135H	+67 kg (+147 lb.)	+258 kg (+569 lb.)	+208 kg (+459 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 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 mm (0 in.)	0 mm (0 in.)	0 mm (0 in.)
Goodyear 26.5 R 25, 1 Star L-3	–56 kg (–123 lb.)	-40 kg (-88 lb.)	–35 kg (–77 lb.)	0 mm (0 in.)	0 mm (0 in.)	0 mm (0 in.)
Firestone 26.5-25, 20-Ply L-3	-360 kg (-794 lb.)	–256 kg (–565 lb.)	–226 kg (–498 lb.)	0 mm (0 in.)	-5 mm (-0.2 in.)	+36 mm (+1.4 in.)
Firestone 26.5-25, 20-Ply L-5 ^g	+312 kg (+688 lb.)	+222 kg (+490 lb.)	+196 kg (+432 lb.)	0 mm (0 in.)	-20 mm (-0.8 in.)	+60 mm (+2.4 in.)
Michelin 29.5 R 25, 2 Star L-3 ^g	+604 kg (+1,332 lb.)	+430 kg (+949 lb.)	+379 kg (+836 lb.)	0 mm (0 in.)	+82 mm (+3.2 in.)	+70 mm (+2.8 in.)
Titan 29.5 R 25, 1 Star L-3 ^g	+664 kg (+1,464 lb.)	+473 kg (+1,043 lb.)	+417 kg (+919 lb.)	0 mm (0 in.)	+58 mm (+2.3 in.)	+78 mm (+3.1 in.)
Bridgestone 29.5 R 25, 1 Star L-3 ^g	+720 kg (+1,587 lb.)	+513 kg (+1,131 lb.)	+452 kg (+996 lb.)	0 mm (0 in.)	+71 mm (+2.8 in.)	+76 mm (+3.0 in.)

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

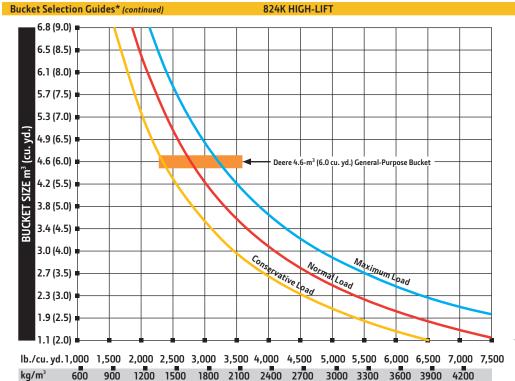
[®]Requires 8-deg. rear axle stops.



824K Z-BAR LOADER WITH PIN-ON BUCKET

LOOSE MATERIALS I	kg/m³ 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.



824K HIGH-LIFT LOADER WITH PIN-ON BUCKET

LOCCEMENTEDIALS	1 (21)	, ,
LOOSE MATERIALS	kg/m³ 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") siz	ze 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.



Engine	844K-II Z-BAR					
Manufacturer and Model	John Deere PowerTech™ PSX 61	35	John Deere PowerTe	ch™ Plus 6135H	John Dee	re 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.)			24 cu. in.)
Net Peak Power (ISO 9249)	283 kW (380 hp) at 1,600 rpm		283 kW (380 hp) at	1 600 rpm		380 hp) at 1,600 rpm
Net Peak Torque (ISO 9249)	1793 Nm (1,323 lbft.) at 900 r		1793 Nm (1,323 lb		•	(1,323 lbft.) at 900 rpm
Net Torque Rise	44%		44%	11.7 at 300 ipili	44%	(1,323 lb1t.) at 300 lpill
Fuel System	Mechanically actuated electroni injectors		Mechanically actuat	ed electronic unit		cally actuated electronic uni
to be designed as			injectors	and the second	injectors	
Lubrication	Full-flow spin-on filter and integ	grai	Full-flow spin-on filt	ter and integral		spin-on filter and integral
Assistantia	cooler		cooler	and an all all	cooler	and the same of the same land
Aspiration	Series turbocharged, charge air		Turbocharged, charge			rged, charge air cooled
Air Cleaner	Dual-element dry type, restriction		Dual-element dry ty	'		ment dry type, restriction
	indicator in cab monitor for serv		indicator in cab mor			in cab monitor for service
Fan Drive	Hydraulically driven, proportion		Hydraulically driven			cally driven, proportionally
	controlled, fan aft of coolers		controlled, fan aft o			d, fan aft of coolers
Electrical System	24 volt with 100-amp (130-amp)	24 volt with 100-am	ıp alternator	24 volt w	ith 100-amp alternator
	optional) alternator					
Batteries (2 – 12 volt)	1,400 CCA (each)		1,400 CCA (each)		1,400 CC	A (each)
Transmission System						
Туре	Countershaft-type PowerShift™					
Torque Converter	Single stage, dual phase with fro		g stator			
Shift Control	Electronically modulated, adapt					
Operator Interface	Steering-column or joystick-mo				n on hydr	ulic lever
Shift Modes	Manual/auto (1st–D or 2nd–D);					
Still t Modes	clutch-cutoff settings	quick-siiii	t button with 2 sele	ctable illoues. kick-ui	JWII OI KICP	c-up/down, and 3 adjustable
	Standard 5-Speed with Lockup	Taraua Ca	nuartar	Ontional / Croad		
Marian - Transferrada / 11/20 F.D.2F 3 Start 2 11 11 11		,	liverter	Optional 4-Speed		D
Maximum Travel Speeds (with 29.5 R 25, 1 Star L3 tires)		Reverse		Forward		Reverse
Range 1	•	7.9 km/h (•	6.6 km/h (4.1 mph)		6.6 km/h (4.1 mph)
Range 2	•		(8.1 mph)	12.2 km/h (7.6 mph		12.2 km/h (7.6 mph)
Range 3			(19.1 mph)	18.8 km/h (11.7 mp		27.3 km/h (17.0 mph)
Range 4	30.7 km/h (19.1 mph)	N/A		40.5 km/h (25.2 mp	h)	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	у				
Differentials	Hydraulic locking front with con	nventional	rear - standard; dua	I locking front and re	ar – optio	nal
Rear Axle Oscillation, Stop to Stop (with 29.5 R 25, 1 Star	26 deg. (13 deg. each direction)			-		
L3 tires)						
Service Brakes (conform to ISO 3450)	Outboard, forced oil cooled, mu	ılti disc				
Parking Brakes (conform to ISO 3450)	Automatic spring applied, hydra		leased sealed wet m	ulti disc		
Tires/Wheels (see page 32 for complete tire adjustments)	riatematic spring applica, nyara	idiredity re	reasea, searca wee m	arti disc		
The structure is the day of the structure and assuments,	Tread Width		Width Over Tires			
Pridaestone 97E/GED20 1 Stort 2	2440 mm (96.1 in.)			ı		
Bridgestone 875/65R29, 1 Star L-3	2440 11111 (96.1 111.)		3420 mm (134.6 in.	1		
Serviceability Partition of the service of the ser	EDA IT / /ELL CL IUD		EDA T: 2 /5U.C:	ША	EDA T	2/FU Chanall
Refill Capacities	EPA IT4/EU Stage IIIB		EPA Tier 3/EU Stage	IIIA		2/EU Stage II
Fuel Tank (with ground-level fueling)	559 L (148 gal.)		553 L (146 gal.)		553 L (14	•
Cooling System	74.9 L (79.1 qt.)		52.4 L (55.4 qt.)		52.4 L (5	
Engine Oil with Vertical Spin-On Filter	40 L (40 qt.)		36 L (38 qt.)		36 L (38 o	•
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 d	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-so	ensing axi	al-piston pumps; clo	sed-center system		
Maximum Rated Flow at 6895 kPa (1,000 psi) and	621 L/m (164 gpm)	J	1 1 1 1 1 1 1 1 1	-,		
2,350 rpm	Z (. o . 3pm)					
System Relief Pressure (loader and steering)	24 132 kPa (3,500 psi)					
Loader Controls	2-function valve; single- or dual	l-lever con	trols: control lover le	ockout feature: ontic	nal 3rd ar	nd 4th-function valve with
Luduci Cultiuis	auxiliary levers	i-ievei con	tiois, control lever it	ockout reature, optio	ומיטוע ומוי	iu Till-TullCiloll Valve WITH
Steering (conforms to ISO 5010)	auxiliary levers					
STREETING TOURTORING TO INCLINED					1	
-	Daniel Calledon D. British C. C.		Landard Control Control			
Туре	Power, fully hydraulic; single-lev		l and adjustable wris	trest with convention	nal steering	g wheel override
-	Power, fully hydraulic; single-lev 80-deg. arc (40 deg. each direct 6.30 m (20 ft. 8 in.)		l and adjustable wris	trest with convention	nal steering	g wheel override



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 Din On D.	hat	

Cab and Canopy

H

D

E

C

F

844K-II Z-BAR LOADER WITH PIN-O	N BUCKET

	Z-Bar	Z-Bar	Z-Bar	Z-Bar	Z-Bar	Z-Bar
Dimensions with Bucket	5.5-m³ (7.25 cu. yd.) general-purpose with bolt-on edge, without wear inserts	5.5-m³ (7.25 cu. yd.) general-purpose with bolt-on edge and wear inserts	6.2-m³ (8.1 cu. yd.) light-material with bolt-on edge and optional spillguard,* without wear inserts	6.2-m³ (8.1 cu. yd.) light-material with bolt-on edge, optional spillguard,* and wear inserts	4.8-m³ (6.3 cu. yd.) spade-nose rock with teeth, seg- ments, spillguard, and wear inserts	4.8-m³ (6.3 cu. yd.) spade-nose rock with bolt-on edge, spillguard, and wear inserts
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.

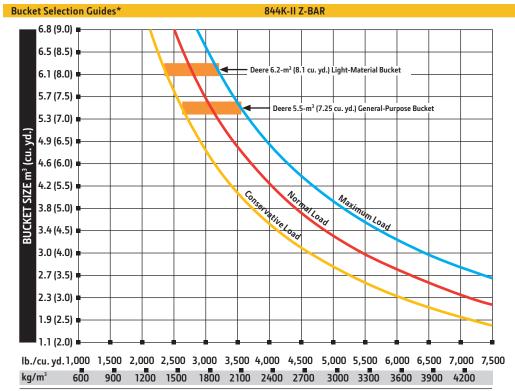
844K-II Z-BAR

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 indi-		Tipping Load,	Tipping Load, 40-			
cated for loaders with 3-piece rims	Operating Weight	Straight	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 ^g	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 ^g	+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-3 ^g	-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.)
*May change based on vehicle config	uration, weight, or tir	e-pressure adjustmer	nts.			

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/m³ 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") si:	ze 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.

724 744 024 044	Facine	774 744 974 944	Hadmardian () ()
724 744 824 844	Engine Wet-sleeve cylinder liners	724 744 824 844	Hydraulics (continued) Hydraulic diagnostic ports
	Programmable auto-idle and auto shutdown		4,000-hour in-tank filter
	Selected idle adjustment from 900–1,250 rpm	A A A	2 function — joystick with F-N-R
	Starter protection		2 function — joystick with F-N-R 2 function — joystick with steering column F-N-R
	Automatic turbo cool-down/shutdown timer [†]		2 function — 2-lever fingertip controls and steering column
		• • • •	F-N-R
	Automatic derating for exceeded system temperatures	A A A	3 function — joystick with F-N-R and 3rd-function auxiliary
	Serpentine drive belt for automatic tensioner		lever
	Electrical fuel-priming pump	\triangle	3 function — joystick with steering column F-N-R and 3rd-
	Dual-stage fuel filter and water separator		function auxiliary lever
	500-hour vertical spin-on oil filter Engine-compartment light		3 function — 3-lever fingertip controls and steering column
	Chrome exhaust stack		F-N-R
		A	4 function — 4-lever fingertip controls and steering column
	Automatic ether starting aid (recommended for cold starts below –12 deg. C [10 deg. F])		F-N-R
A A A A	Engine-block heater (recommended for cold starts below	A A A A	Ride control, automatic with monitor-adjustable speed settings Hydraulic control system for quick-coupler locking pins
	–23 deg. C [–10 deg. F])		Steering Systems
\triangle \triangle \bullet	Centrifugal engine air pre-cleaner		Conventional steering wheel with spinner knob
	Powertrain	A A A B	Joystick steering (including conventional steering column)
• • • •	Programmable maximum high gear		with gearshift, F-N-R, and horn
• • • •	Clutch calibration engaged from monitor	\triangle	Secondary steering
• • • •	2,000-hour vertical spin-on transmission filter		Electrical
• • • •	Transmission diagnostic ports	• • • •	Solid-state electrical power-distribution system
• • • •	5-speed transmission with lockup torque converter	• • • •	Lockable master electrical-disconnect switch
	4-speed transmission with non-lockup torque converter	• • • •	By-pass start safety cover at starter
\bullet \bullet \bullet	Front locking differential	• • • •	Pre-wired for beacon/strobe light
	Rear locking differential	• • • •	Lights: Halogen driving lights with guards (2) / Front (4) and
	Automatic differential lock		rear (2) cab work lights (724K) / Front (4), rear cab (2), and rear
• • • •	Axle oil temperature sensing		grille (2) work lights (744K, 824K, and 844K-II) / Turn signals
\bullet \bullet \bullet	Wheel-spin control		and flashers (724K, 744K, and 824K) / LED stop- and taillights
	Quad-Cool™ Cooling System		Heavy-duty LED turn signal and marker lights
• • • •	Heavy-duty, trash-resistant radiator and high-ambient cooling		Premium LED work, drive, and marker lights
	package		Programmable courtesy lights Horn, electric
	2-side access to all coolers		·
	Isolated from engine compartment		Reverse warning alarm
	Integral engine oil cooler	• • • •	Multi-function/multi-language LCD color monitor includes: Digital instruments — Analog display (hydraulic oil tempera-
	Hydraulic oil cooler (oil to air)		ture, engine coolant temperature, transmission oil tempera-
	Transmission oil cooler (oil to air)		ture, and engine oil pressure) / Digital display (engine rpm,
	Charge air cooler (air to air) Coolant recovery tank		transmission gear/direction indicator, hour meter, fuel level,
	Antifreeze, –37 deg. C (–34 deg. F)		speedometer, odometer, and outside temperature)
	Cool-on-demand swing-out fan	• • • •	Integrated cycle counter with 5 categories
	Enclosed fan safety guard	• • • •	Indicator lights: Standard and selected options / Amber caution
	Automatic reversing fan drive		and red stop
	Axle and service-brake coolers		Operator-warning messages Built-in diagnostics: Diagnostic-code details / Sensor values /
A 0 0 0		• • • •	Calibrations / Individual circuit tester
	Corrosive-environment coolers Hydraulics	A A A A	Electrical corrosion-prevention package
	Automatic return-to-dig bucket positioner		AM/FM/weather-band radio with CD player
	In-cab adjustable automatic boom-height kickout/return to		24- to 12-volt, 8-amp converter
	carry	†Available only wi	th EPA Interim Tier 4/EU Stage IIIB engines.
• • • •	Reservoir with sight gauge and fill strainer		

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.

724	744 8	24	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
A	A .	A	•	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
	A .	A		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
	A .			Powered cab air pre-cleaner
	A .	A	\blacktriangle	Beacon bracket
	A .	A	\blacktriangle	Rear camera and radar object-detection system
	A .			Embedded payload scale
	A .	A		Fire extinguisher
				Loader Linkage
•	•	•	•	Z-bar loader linkage
	A .	A		High-Lift Z-bar loader linkage
				Buckets and Attachments
	A .	A	A	Full line of Deere pin-on buckets
•				Hi-Vis hydraulic coupler which accepts Euro-pattern attachments (Volvo)
\blacksquare				Full line of Deere hook-on buckets and forks
	A .	A	\blacktriangle	Bolt-on bucket spill quard
				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 steer-
				ing 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 coun-
				terweight 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
			Ā	Waste handler (Z-bar and High-Lift)
				NeverGrease linkage (Z-bar and High-Lift)
			•	Level 1 sound package
_	Ā		•	Level 2 sound package
				Transmission side-frame and bottom quards
	Ā		Ā	Fast-fuel system
Ā	A			Quick fluid service (engine, transmission, hydraulic oils, and
				engine coolant)
A	•	•	•	Fenders, full-coverage, front
Ā			Ā	Fenders, full-coverage, front and rear
			_	Less wheels and tires with axle stops
				Rims less tires
_	•		•	Lift eyes
_	<u> </u>	A	<u> </u>	License-plate bracket and light
				Special quarding for waste and forestry applications
_	_			special guarding for waste and forestry applications



