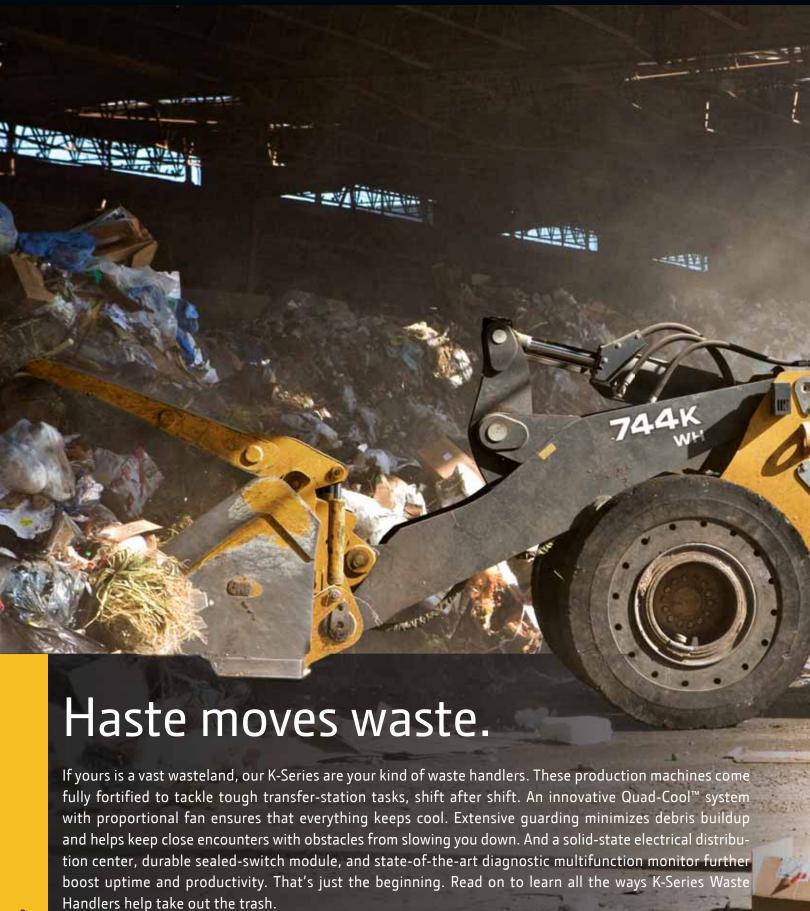
K-SERIES 146-304 HP WASTE HANDLERS



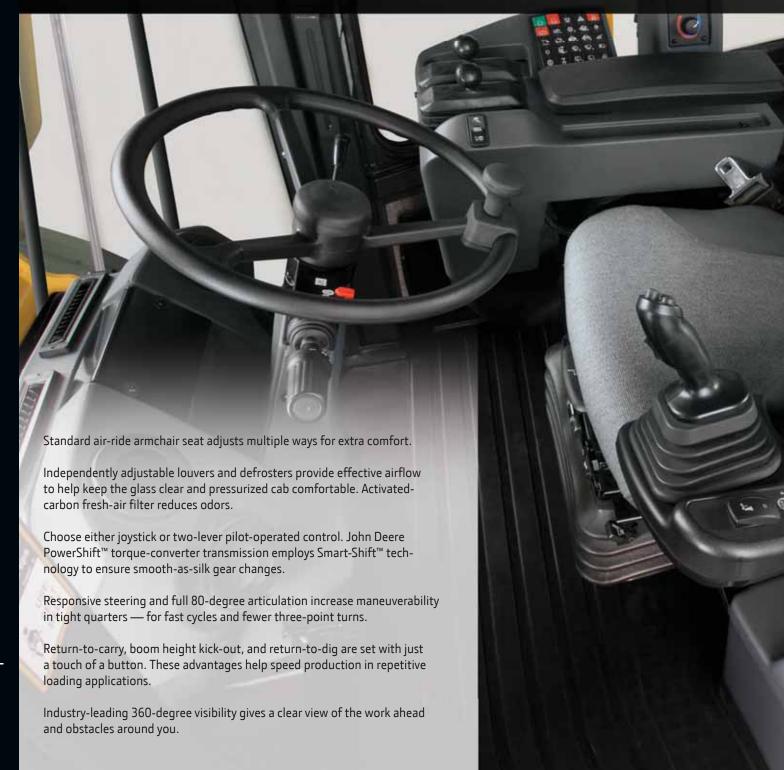






Hard work made easier.

From the convenient controls that let you customize machine operation, to the comfortable fully adjustable armchair seat — the K-Series Loaders have everything your operators need to stay alert and productive. All-around visibility is exceptional, offering clear sight lines of the work area and obstacles around you. And an efficient HVAC system helps keep the view clear, the environment comfortable. A sealed-switch module allows convenient, fingertip control of multiple machine operations. Up front, a state-of-the-art multifunction monitor with easy-to-read gauges and messaging provides vital operating info at a glance.





Keep cool under pressure.

You know the drill. Debris works its way into everything — clinging to intake screens, plugging coolers, filling engine compartments, and causing overheating. But these waste handlers are built to work long and hard without breaking a sweat. Their unique Quad-Cool™ system places everything in an easy-to-clean package, effectively isolating critical cooling components from engine heat. What's more, a hydraulically driven fan automatically reverses to eject buildup. For cool-running efficiency, regardless of what's underfoot. Or in the air.





No place for the faint of heart.

You won't have to be concerned about these waste handlers getting trashed too soon. Their rugged reliability starts with traditional John Deere durability features such as wet-sleeve diesels, inboard planetary wet-disc brakes, and heavy-duty mainframes. From the high-visibility window bars to the heavy-duty hydraulic belly pans, all vulnerable components are guarded to protect them from trash infiltration and impact damage. Helps keep the daily grind from grinding these highly productive machines, and your operation, to a halt.



2 THE STATE OF THE

- Articulation joint shields and driveshaft guards resist trash buildup.
- 2. Front window bars protect glass without obstructing all-around visibility.
- 3. Axle guards help protect the seals and resist refuse wrapping.
- Extreme-duty steps are mounted in close where they're less vulnerable.
 Their flexible design takes abuse and comes back for more.
- Extreme-duty front loader frame cover, lower loader frame guard, transmission side covers, and boom cylinder and hydraulic line guards give additional impact and debris resistance.
- 6. High-intensity halogen driving and work lights are powerful and well protected. Optional ROPS-mounted gel-filled strobe light alerts bystanders of the machine's presence.
- 7. Bolt-on hinged or optional hydraulic belly pans provide unmatched protection of the fuel tank and drivetrain. Hydraulic versions have built-in safety features that open and close easily for cleanout.



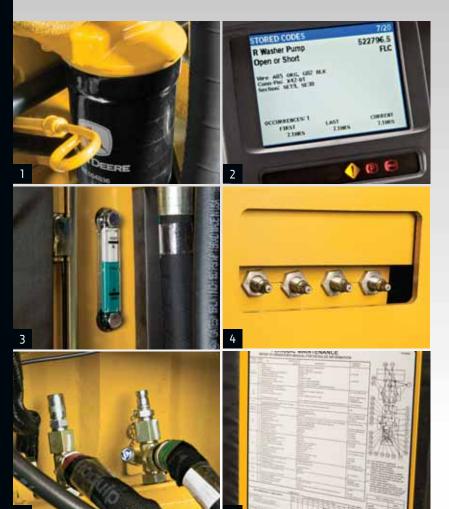






Get the lowdown on daily operating costs.

In addition to the enhancements that protect glass, sheet metal, and components, the K-Series Loaders are built to allow simplified maintenance. Service intervals have been extended, and same-side ground-level service points make quick work of the daily routine. Large hinged side shields open wide to provide ample access to dipsticks, vertical spin-on filters, sight gauges, and maintenance-free batteries. These, plus many other timesaving advantages, help minimize downtime and expense.



- 1. Vertical transmission and engine oil and fuel filters allow quick and easy no-spill changes.
- If something goes wrong, an advanced monitor gives easy-to-understand diagnostic messages and even offers possible solutions to minimize downtime.
- 3. Conveniently located sight gauges let you check fluid levels at a glance.
- 4. Centralized lube banks make greasing less messy.
- Color-coded fluid sample and diagnostic test ports help speed preventive maintenance and troubleshooting. Noninvasive design helps prevent contamination.
- Conveniently displayed periodic lubrication and maintenance chart helps ensure that nothing is overlooked.



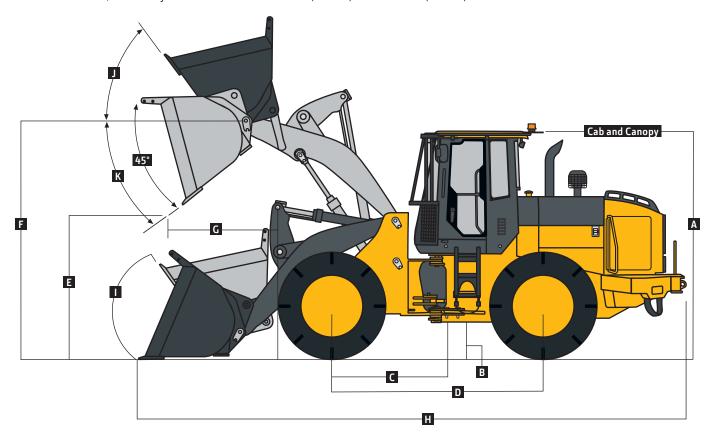
524K WH / 544K WH

Engine	524K WH		544K WH			
Manufacturer and Model	John Deere PowerTech™ 6068H John Deere PowerTech E 6068H			5068H		
Non-Road Emission Standards	Certified to EPA Tier 3 emis	ssions	Certified to EPA Tier 3 emi	ssions		
Cylinders	6		6			
Valves per Cylinder	2		2			
Displacement	414 cu. in. (6.8 L) 414 cu. in. (6.8 L)					
Net Peak Power	146 hp (110 kW) at 2,000	rpm	167 hp (125 kW) at 1,900	rpm		
Net Peak Torque	448 lbft. (607 Nm) at 1,6	00 rpm	496 lbft. (673 Nm) at 1,6	500 rpm		
Net Torque Rise	47%		38%			
Fuel System (electronically controlled)	High-pressure common rai	il	High-pressure common ra	il		
Lubrication	Full-flow spin-on filter and		Full-flow spin-on filter and	d integral cooler		
Aspiration	Turbocharged, charge air o	cooled	Turbocharged, charge air	cooled		
Air Cleaner			tor in cab monitor for servi	ce		
Cooling	524K WH / 544K WH					
Fan Drive	Hydraulically driven, propo	ortionally controlled, fan af	t of coolers			
Fan Type	Blower type					
Engine Coolant Rating	-34 deg. F (-37 deg. C)					
Engine Radiator	7.5 fins per in. (water to ai	r)				
Hydraulic Cooler	6.3 fins per in. (oil to air)					
Charge Air Cooler	6.3 fins per in. (air to air)					
Transmission Oil Cooler	6.3 fins per in. (oil to air)					
Transmission	524K WH		544K WH			
Туре	Countershaft-type PowerS	hift™	Countershaft-type Powers	Shift		
Torque Converter	Single stage, single phase		Single stage, single phase			
Operator Interface			r-select lever; quick-shift b	utton on hydraulic lever		
Shift Control	Electronically modulated, a	adaptive, load and speed d	ependent			
Shift Modes	Manual/auto (1st-D or 2nd	d-D); quick-shift button wit	h 2 selectable modes: kick-	down or kick-up/down;		
	and 3 adjustable clutch cu	toff settings				
Maximum Gear	Programmable via monitor	r	Programmable via monito	r		
Travel Speeds with 20.5-25 Tires	Forward Maximum	Reverse Maximum	Forward Maximum	Reverse Maximum		
Gear 1	4.5 mph (7.2 km/h)	4.5 mph (7.2 km/h)	4.5 mph (7.2 km/h)	4.5 mph (7.2 km/h)		
Gear 2	7.5 mph (12.0 km/h)	7.8 mph (12.6 km/h)	7.5 mph (12.0 km/h)	7.8 mph (12.6 km/h)		
Gear 3	14.3 mph (23.0 km/h)	15.0 mph (24.1 km/h)	14.2 mph (22.8 km/h)	15.0 mph (24.1 km/h)		
Gear 4	22.4 mph (36.0 km/h)	_	22.2 mph (35.7 km/h)	_		
Axles/Brakes	524K WH / 544K WH					
Final Drives	Heavy-duty inboard-moun	ted planetary				
Differentials	, ,	th conventional rear – stan	dard; dual locking front and	d rear – optional		
Rear Axle Oscillation (stop to stop)	24 deg.					
Brakes (conform to ISO 3450)						
Service Brakes	Hydraulically actuated, inb	oard sun-shaft mounted, o	oil cooled, self-adjusting, si	ngle disc		
Parking Brake	Automatic spring applied, hydraulically released, driveline mounted, oil cooled, multi disc					

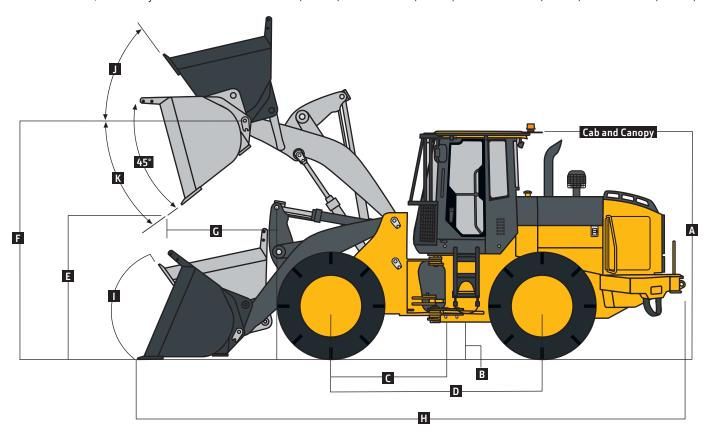


Tires/Wheels	524K WH / 544K WH			
With 20.5 x 25 Solid Rubber Tires				
Tread Width	76.8 in. (1951 mm)			
Width Over Tires	97.1 in. (2466 mm)			
Hydraulic System/Steering	524K WH		544K WH	
Pump (loader and steering)	Variable-displacement, a	xial-piston pump; closed-cer	nter, pressure-compensating	system
Maximum Rated Flow at 1,000 psi (6895 kPa) and 2,350 rpm	44 gpm (165 L/m)		50 gpm (189 L/m)	
System Relief Pressure, Loader and Steering	3,625 psi (24 994 kPa)		3,650 psi (25 166 kPa)	
Loader Controls	2-function valve; joystick valve with auxiliary lever	or fingertip control; hydraul	ic-function enable/disable; o	ptional 3rd- and 4th-function
Steering (conforms to ISO 5010)	, , , , , , , , , , , , , , , , , , , ,			
Type	Power, fully hydraulic		Power, fully hydraulic	
Articulation Angle	80-deg. arc (40 deg. each	n direction)	80-deg. arc (40 deg. eac	n direction)
Hydraulic Cycle Times	Standard Z-Bar	High-Lift Z-Bar	Standard Z-Bar	High-Lift Z-Bar
Raise	6.1 sec.	6.1 sec.	5.8 sec.	5.8 sec.
Dump	1.4 sec.	1.4 sec.	1.2 sec.	1.2 sec.
Lower (float down)	3.0 sec.	3.0 sec.	3.2 sec.	3.2 sec.
Total	10.5 sec.	10.5 sec.	10.2 sec.	10.2 sec.
Turning Radius				
Measured to Centerline of Outside Tire	16 ft. 5 in. (5.00 m)		16 ft. 5 in. (5.00 m)	
Electrical System	524K WH / 544K WH			
Electrical System	24 volt with 80-amp alte	rnator (100-amp alternator o	optional)	
Batteries (2 – 12 volt)	950 CCA (each)			
Serviceability				
Refill Capacities				
Fuel Tank	86 gal. (325 L)			
Cooling System	24 qt. (23 L)			
Engine Oil with Vertical Spin-On Filter	20 qt. (19 L)			
Transmission Fluid with Vertical Spin-On Filter	19.5 qt. (18.5 L)			
Axle Oil (front and rear)	18 qt. (17 L)			
Hydraulic Reservoir and Filters	24 gal. (91 L)			
Park Brake Oil (wet disc)	10 oz. (0.3 L)			
Operating Weights	524K WH		544K WH	
All configurations include waste-handler protection, 2	0.5 x 25 solid rubber tires, cab Standard Z-Bar	, full fuel tank, and 175-lb. (High-Lift Z-Bar	79 kg) operator Standard Z-Bar	High-Lift Z-Bar
4.0-cuyd. (3.1 m³) Standard-Lip Bucket	33,887 lb. (15 371 kg)	34,311 lb. (15 563 kg)	35,008 lb. (15 879 kg)	35,329 lb. (16 025 kg)
5.0-cuyd. (3.8 m³) Standard-Lip Bucket	_	_	35,408 lb. (16 061 kg)	35,729 lb. (16 206 kg)

Machine Dimensions	524K WH	
Linkage with Pin-On Bucket	Standard Z-Bar	High-Lift Z-Bar
A Height to Top of Cab and Canopy	10 ft. 10 in. (3.31 m)	10 ft. 10 in. (3.31 m)
B Ground Clearance	18 in. (0.46 m)	18 in. (0.46 m)
C Length from Centerline to Front Axle	4 ft. 9 in. (1.45 m)	4 ft. 9 in. (1.45 m)
D Wheelbase	9 ft. 7 in. (2.93 m)	9 ft. 7 in. (2.93 m)
E Dump Clearance with 4.0-cuyd. (3.1 m³) Bucket	8 ft. 7 in. (2.63 m)	9 ft. 11 in. (3.03 m)
F Height to Hinge Pin, Fully Raised	12 ft. 6 in. (3.80 m)	13 ft. 8 in. (4.18 m)
G Dump Reach with 4.0-cuyd. (3.1 m³) Bucket	34 in. (0.86 m)	3 ft. 3 in. (0.99 m)
H Overall Length with 4.0-cuyd. (3.1 m³) Bucket	24 ft. 4 in. (7.41 m)	25 ft. 5 in. (7.75 m)
Maximum Rollback at Ground Level	35.0 deg.	35.4 deg.
J Maximum Rollback at Full Height	51.0 deg.	45.5 deg.
K Maximum Dump Angle at Full Height	50.3 deg.	45.7 deg.
Capacity, Heaped, with Bolt-On Cutting Edge	4.0 cu. yd. (3.1 m³)	4.0 cu. yd. (3.1 m³)
Capacity, Struck	3.5 cu. yd. (2.7 m³)	3.5 cu. yd. (2.7 m³)
Breakout Force	17,701 lb. (8029 kg)	16,294 lb. (7391 kg)
Tipping Load, Straight	23,122 lb. (10 488 kg)	19,565 lb. (8875 kg)
Tipping Load, 40-deg. Full Turn	20,144 lb. (9137 kg)	16,972 lb. (7698 kg)
Bucket Weight	3,200 lb. (1451 kg)	3,200 lb. (1451 kg)
Bucket Width	8 ft. 10 in. (2.69 m)	8 ft. 10 in. (2.69 m)
Reach, 45-deg. Dump, 7-ft. (2.13 m) Clearance	4 ft. 6 in. (1.38 m)	5 ft. 6 in. (1.68 m)
Loader Clearance Circle, Bucket Carry Position	38 ft. 10 in. (11.84 m)	39 ft. 10 in. (12.15 m)



Machine Dimensions	544K WH			
Linkage with Pin-On Bucket	Standard Z-Bar		High-Lift Z-Bar	
A Height to Top of Cab and Canopy	10 ft. 10 in. (3.31 m)		10 ft. 10 in. (3.31 m)	
B Ground Clearance	18 in. (0.46 m)		18 in. (0.46 m)	
C Length from Centerline to Front Axle	4 ft. 9 in. (1.45 m)		4 ft. 9 in. (1.45 m)	
D Wheelbase	9 ft. 7 in. (2.93 m)		9 ft. 7 in. (2.93 m)	
E Dump Clearance	` '		, ,	
With 4.0-cuyd. (3.1 m³) Bucket	8 ft. 10 in. (2.69 m)		10 ft. 2 in. (3.11 m)	
With 5.0-cuyd. (3.8 m ³) Bucket	8 ft. 4 in. (2.55 m)		9 ft. 10 in. (2.99 m)	
F Height to Hinge Pin, Fully Raised	12 ft. 9 in. (3.88 m)		13 ft. 10 in. (4.23 m)	
G Dump Reach				
With 4.0-cuyd. (3.1 m³) Bucket	33.5 in. (0.85 m)		3 ft. 2 in. (0.97 m)	
With 5.0-cuyd. (3.8 m³) Bucket	3 ft. 2 in. (0.97 m)		3 ft. 7 in. (1.10 m)	
H Overall Length				
With 4.0-cuyd. (3.1 m³) Bucket	24 ft. 4 in. (7.41 m)		25 ft. 5 in. (7.75 m)	
With 5.0-cuyd. (3.8 m³) Bucket	24 ft. 11 in. (7.60 m)		26 ft. 0 in. (7.93 m)	
Maximum Rollback at Ground Level	35.0 deg.		35.4 deg.	
J Maximum Rollback at Full Height	51.0 deg.		45.5 deg.	
K Maximum Dump Angle at Full Height	49.0 deg.		45.8 deg.	
Capacity, Heaped, with Bolt-On Cutting Edge	4.0 cu. yd. (3.1 m³)	5.0 cu. yd. (3.8 m³)	4.0 cu. yd. (3.1 m³)	5.0 cu. yd. (3.8 m³)
Capacity, Struck	3.5 cu. yd. (2.7 m³)	4.36 cu. yd. (3.3 m³)	3.5 cu. yd. (2.7 m³)	4.36 cu. yd. (3.3 m³)
Breakout Force	21,117 lb. (9579 kg)	18,262 lb. (8284 kg)	19,371 lb. (8787 kg)	16,721 lb. (7585 kg)
Tipping Load, Straight	24,770 lb. (11 236 kg)	23,830 lb. (10 809 kg)	21,171 lb. (9603 kg)	20,305 lb. (9210 kg)
Tipping Load, 40-deg. Full Turn	21,531 lb. (9766 kg)	20,658 lb. (9370 kg)	18,338 lb. (8318 kg)	17,531 lb. (7952 kg)
Bucket Weight	3,200 lb. (1451 kg)	3,600 lb. (1633 kg)	3,200 lb. (1451 kg)	3,600 lb. (1633 kg)
Bucket Width	8 ft. 10 in. (2.69 m)	8 ft. 10 in. (2.69 m)	8 ft. 10 in. (2.69 m)	8 ft. 10 in. (2.69 m)
Reach, 45-deg. Dump, 7-ft. (2.13 m) Clearance	4 ft. 6 in. (1.38 m)	4 ft. 9 in. (1.44 m)	5 ft. 6 in. (1.68 m)	5 ft. 9 in. (1.74 m)
Loader Clearance Circle, Bucket Carry Position	38 ft. 10 in. (11.84 m)	39 ft. 3 in. (11.96 m)	39 ft. 10 in. (12.15 m)	40 ft. 3 in. (12.28 m)



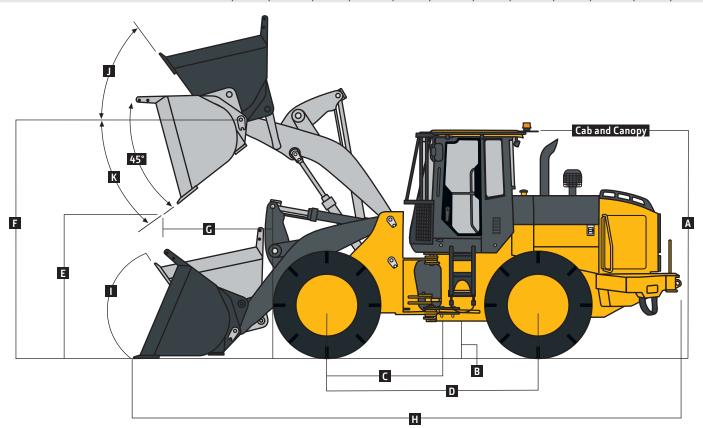
624K WH / 644K WH

Engine	624K WH		644K WH		
Manufacturer and Model	John Deere PowerTech ^{TI}	[™] Plus 6068H	John Deere PowerTech Plus 6068H		
Non-Road Emission Standards	Certified to EPA Tier 3 e	missions	Certified to EPA Tier 3 emissions		
Cylinders	6		6		
Valves per Cylinder	4		4		
Displacement	415 cu. in. (6.8 L)		415 cu. in. (6.8 L)		
Net Peak Power	198 hp (147 kW) at 1,80	00 rpm	232 hp (173 kW) at 1,70	0 rpm	
Net Peak Torque	617 lbft. (836 Nm) at	1,600 rpm	749 lbft. (1016 Nm) at	1,400 rpm	
Net Torque Rise	55%	·	55%	·	
Fuel System (electronically controlled)	High-pressure common	rail	High-pressure common i	rail	
Lubrication	Full-flow spin-on filter a		Full-flow spin-on filter a		
Aspiration	Turbocharged, charge a		Turbocharged, charge ai		
Air Cleaner		ent dry type; restriction indic			
Cooling		, , , , , , , , , , , , , , , , , , , ,			
Fan Drive	Hydraulically driven, pro	portionally controlled, fan a	aft of coolers		
Fan Type	Blower type	•	Blower type		
Engine Coolant Rating	–34 deg. F (–37 deg. C)		–34 deg. F (–37 deg. C)		
Engine Radiator	8.0 fins per in. (water to	air)	8.0 fins per in. (water to air)		
Hydraulic Cooler	6.0 fins per in. (oil to air		6.3 fins per in. (oil to air)		
Charge Air Cooler	6.0 fins per in. (air to air				
Transmission Oil Cooler	6.0 fins per in. (oil to air				
Transmission	· · · · · · · · · · · · · · · · · · ·		6.3 fins per in. (oil to air)		
Туре	Countershaft-type Powe	erShift™	Countershaft-type Powe	rShift	
Torque Converter	Single stage, single pha		Single stage, single phas		
Operator Interface	Steering-column- or joy	stick-mounted F-N-R and ge	ear-select lever; quick-shift	button on hydraulic lever	
Shift Control		d, adaptive, load and speed		•	
Shift Modes	Manual/auto (1st-D or 2	2nd-D); quick-shift button w	rith 2 selectable modes: kicl	k-down or kick-up/down;	
	and 3 adjustable clutch	cutoff settings		·	
Maximum Gear	Programmable via moni	tor	Programmable via monit	or	
	With 20.5-25 Tires		With 23.5-25 Tires		
Travel Speeds	Forward Maximum	Reverse Maximum	Forward Maximum	Reverse Maximum	
Gear 1	4.7 mph (7.6 km/h)	4.7 mph (7.6 km/h)	4.7 mph (7.6 km/h)	4.9 mph (7.9 km/h)	
Gear 2	7.8 mph (12.5 km/h)	8.1 mph (13.0 km/h)	7.8 mph (12.6 km/h)	8.0 mph (12.9 km/h)	
Gear 3	15.5 mph (25.0 km/h)	16.0 mph (25.7 km/h)	15.3 mph (24.7 km/h)	15.5 mph (24.9 km/h)	
Gear 4	24.5 mph (39.5 km/h)	_ ' ` ` '	22.7 mph (36.6 km/h)	_ ` ` ` `	
Axles/Brakes					
Final Drives	Heavy-duty inboard-mo	unted planetary	Heavy-duty inboard-mou	inted planetary	
Differentials	Hydraulic locking front	with conventional rear – sta	ndard; dual locking front ar	nd rear – optional	
Rear Axle Oscillation (stop to stop)	24 deg.		26 deg.		
Brakes (conform to ISO 3450)	<u> </u>				
Service Brakes	Hydraulically actuated,	inboard sun-shaft mounted	, oil cooled, self-adjusting, s	single disc	
Parking Brake	Automatic spring applied, hydraulically released, driveline mounted, oil cooled, multi disc				

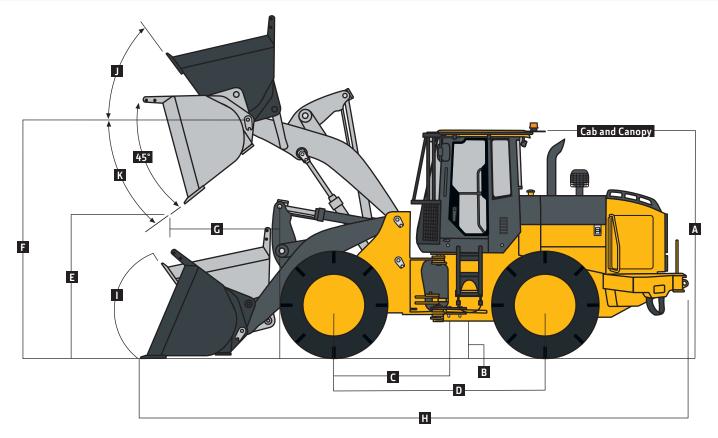


Tires/Wheels	624K WH		644K WH			
	With 20.5 x 25 Solid Rub	ber Tires	With 23.5 x 25 Solid Rub	ber Tires		
Tread Width	80.7 in. (2050 mm)	80.7 in. (2050 mm)		85.4 in. (2169 mm)		
Width Over Tires	101.3 in. (2573 mm)		113.2 in. (2875 mm)			
Hydraulic System/Steering						
Pump (loader and steering)	Variable-displacement, as	xial-piston pump; closed-cen	ter, pressure-compensating:	system		
Maximum Rated Flow at 1,000 psi (6895 kPa) and	59 gpm (223 L/m)		82 gpm (310 L/m)			
2,350 rpm						
System Relief Pressure, Loader and Steering	3,675 psi (24 821 kPa)		3,650 psi (25 166 kPa)			
Loader Controls	2-function valve; joystick valve with auxiliary lever	or fingertip control; hydrauli	c-function enable/disable; օլ	otional 3rd- and 4th-funct		
Steering (conforms to ISO 5010)	j					
Type	Power, fully hydraulic		Power, fully hydraulic			
Articulation Angle	80-deg. arc (40 deg. each		80-deg. arc (40 deg. each	direction)		
Hydraulic Cycle Times	Standard Z-Bar	High-Lift Z-Bar	Standard Z-Bar	High-Lift Z-Bar		
Raise	5.9 sec.	5.9 sec.	5.5 sec.	5.5 sec.		
Dump	1.3 sec.	1.3 sec.	1.4 sec.	1.4 sec.		
Lower (float down)	2.7 sec.	2.7 sec.	3.0 sec.	3.0 sec.		
Total	9.9 sec.	9.9 sec.	9.9 sec.	9.9 sec.		
Turning Radius						
Measured to Centerline of Outside Tire	17 ft. 4 in. (5.27 m)		18 ft. 3 in. (5.57 m)			
Electrical System	624K WH / 644K WH					
Electrical System		rnator (100-amp alternator o	ptional)			
Batteries (2 – 12 volt)	950 CCA (each)					
Serviceability	624K WH		644K WH			
Refill Capacities						
Fuel Tank	93 gal. (352 L)		93 gal. (352 L)			
Cooling System	29 qt. (27 L)		31 qt. (29.5 L)			
			76 ~+ /7/ EII			
Engine Oil with Vertical Spin-On Filter	20 qt. (19 L)		26 qt. (24.5 L)			
Transmission Fluid with Vertical Spin-On Filter	20 qt. (19 L) 22 qt. (21 L)		24 qt. (23 L)			
Transmission Fluid with Vertical Spin-On Filter Axle Oil	22 qt. (21 L)		24 qt. (23 L)			
Transmission Fluid with Vertical Spin-On Filter Axle Oil Front	22 qt. (21 L) 23 qt. (22 L)		24 qt. (23 L) 23 qt. (22 L)			
Transmission Fluid with Vertical Spin-On Filter Axle Oil Front Rear	22 qt. (21 L) 23 qt. (22 L) 18 qt. (17 L)		24 qt. (23 L) 23 qt. (22 L) 23 qt. (22 L)			
Transmission Fluid with Vertical Spin-On Filter Axle Oil Front Rear Hydraulic Reservoir and Filters	22 qt. (21 L) 23 qt. (22 L) 18 qt. (17 L) 29 gal. (110 L)		24 qt. (23 L) 23 qt. (22 L) 23 qt. (22 L) 29 gal. (110 L)			
Transmission Fluid with Vertical Spin-On Filter Axle Oil Front Rear Hydraulic Reservoir and Filters Park Brake Oil (wet disc)	22 qt. (21 L) 23 qt. (22 L) 18 qt. (17 L)		24 qt. (23 L) 23 qt. (22 L) 23 qt. (22 L)			
Transmission Fluid with Vertical Spin-On Filter Axle Oil Front Rear Hydraulic Reservoir and Filters Park Brake Oil (wet disc) Operating Weights	22 qt. (21 L) 23 qt. (22 L) 18 qt. (17 L) 29 gal. (110 L) 10 oz. (0.3 L)		24 qt. (23 L) 23 qt. (22 L) 23 qt. (22 L) 29 gal. (110 L)			
Transmission Fluid with Vertical Spin-On Filter Axle Oil Front Rear Hydraulic Reservoir and Filters Park Brake Oil (wet disc)	22 qt. (21 L) 23 qt. (22 L) 18 qt. (17 L) 29 gal. (110 L) 10 oz. (0.3 L) cab, full fuel tank, and 175-lb. (24 qt. (23 L) 23 qt. (22 L) 23 qt. (22 L) 29 gal. (110 L) 20 oz. (0.6 L)			
Transmission Fluid with Vertical Spin-On Filter Axle Oil Front Rear Hydraulic Reservoir and Filters Park Brake Oil (wet disc) Operating Weights	22 qt. (21 L) 23 qt. (22 L) 18 qt. (17 L) 29 gal. (110 L) 10 oz. (0.3 L) cab, full fuel tank, and 175-lb. (With 20.5 x 25 Solid Rub	ber Tires	24 qt. (23 L) 23 qt. (22 L) 23 qt. (22 L) 29 gal. (110 L) 20 oz. (0.6 L) With 23.5 x 25 Solid Rub			
Transmission Fluid with Vertical Spin-On Filter Axle Oil Front Rear Hydraulic Reservoir and Filters Park Brake Oil (wet disc) Operating Weights All configurations include waste-handler protection,	22 qt. (21 L) 23 qt. (22 L) 18 qt. (17 L) 29 gal. (110 L) 10 oz. (0.3 L) cab, full fuel tank, and 175-lb. (With 20.5 x 25 Solid Rub Standard Z-Bar	ber Tires High-Lift Z-Bar	24 qt. (23 L) 23 qt. (22 L) 23 qt. (22 L) 29 gal. (110 L) 20 oz. (0.6 L) With 23.5 x 25 Solid Rub Standard Z-Bar	ber Tires High-Lift Z-Bar		
Transmission Fluid with Vertical Spin-On Filter Axle Oil Front Rear Hydraulic Reservoir and Filters Park Brake Oil (wet disc) Operating Weights All configurations include waste-handler protection, 4.0-cuyd. (3.1 m³) Standard-Lip Bucket	22 qt. (21 L) 23 qt. (22 L) 18 qt. (17 L) 29 gal. (110 L) 10 oz. (0.3 L) cab, full fuel tank, and 175-lb. (With 20.5 x 25 Solid Rub Standard Z-Bar 38,404 lb. (17 420 kg)	ber Tires High-Lift Z-Bar 38,699 lb. (17 554 kg)	24 qt. (23 L) 23 qt. (22 L) 23 qt. (22 L) 29 gal. (110 L) 20 oz. (0.6 L) With 23.5 x 25 Solid Rub Standard Z-Bar	High-Lift Z-Bar —		
Transmission Fluid with Vertical Spin-On Filter Axle Oil Front Rear Hydraulic Reservoir and Filters Park Brake Oil (wet disc) Operating Weights All configurations include waste-handler protection, 4.0-cuyd. (3.1 m³) Standard-Lip Bucket 5.0-cuyd. (3.8 m³) Standard-Lip Bucket	22 qt. (21 L) 23 qt. (22 L) 18 qt. (17 L) 29 gal. (110 L) 10 oz. (0.3 L) cab, full fuel tank, and 175-lb. (With 20.5 x 25 Solid Rub Standard Z-Bar 38,404 lb. (17 420 kg) 38,754 lb. (17 578 kg)	ber Tires High-Lift Z-Bar 38,699 lb. (17 554 kg) 39,049 lb. (17 712 kg)	24 qt. (23 L) 23 qt. (22 L) 23 qt. (22 L) 29 gal. (110 L) 20 oz. (0.6 L) With 23.5 x 25 Solid Rub Standard Z-Bar 46,842 lb. (21 247 kg)	High-Lift Z-Bar — 47,296 lb. (21 453 kg)		
Transmission Fluid with Vertical Spin-On Filter Axle Oil Front Rear Hydraulic Reservoir and Filters Park Brake Oil (wet disc) Operating Weights All configurations include waste-handler protection, 4.0-cuyd. (3.1 m³) Standard-Lip Bucket	22 qt. (21 L) 23 qt. (22 L) 18 qt. (17 L) 29 gal. (110 L) 10 oz. (0.3 L) cab, full fuel tank, and 175-lb. (With 20.5 x 25 Solid Rub Standard Z-Bar 38,404 lb. (17 420 kg)	ber Tires High-Lift Z-Bar 38,699 lb. (17 554 kg)	24 qt. (23 L) 23 qt. (22 L) 23 qt. (22 L) 29 gal. (110 L) 20 oz. (0.6 L) With 23.5 x 25 Solid Rub Standard Z-Bar			

Machine Dimensions	624K WH							
Linkage with Pin-On Bucket	Standard Z-Ba	ır		High-Lift Z-Ba	High-Lift Z-Bar			
A Height to Top of Cab and Canopy	11 ft. 1 in. (3.3	11 ft. 1 in. (3.39 m)			11 ft. 1 in. (3.39 m)			
B Ground Clearance	17.6 in. (0.45 i	m)		17.6 in. (0.45	17.6 in. (0.45 m)			
C Length from Centerline to Front Axle	5 ft. 0 in. (1.52	2 m)		5 ft. 0 in. (1.52	2 m)			
D Wheelbase	10 ft. 1 in. (3.0	09 m)		10 ft. 1 in. (3.0	09 m)			
E Dump Clearance								
With 4.0-cuyd. (3.1 m³) Bucket	8 ft. 11 in. (2.7	71 m)		10 ft. 8 in. (3.2	25 m)			
With 5.0-cuyd. (3.8 m ³) Bucket	9 ft. 1 in. (2.77	7 m)		10 ft. 3 in. (3.1	13 m)			
With 6.0-cuyd. (4.6 m ³) Bucket	8 ft. 7 in. (2.61	l m)		9 ft. 9 in. (2.98	3 m)			
F Height to Hinge Pin, Fully Raised	13 ft. 2 in. (4.0)1 m)		14 ft. 4 in. (4.3	38 m)			
G Dump Reach	·	,		·	,			
With 4.0-cuyd. (3.1 m ³) Bucket	3 ft. 0 in. (0.91	l m)		3 ft. 2 in. (0.97	⁷ m)			
With 5.0-cuyd. (3.8 m³) Bucket	3 ft. 3 in. (1.00	,		3 ft. 7 in. (1.09	,			
With 6.0-cuyd. (4.6 m ³) Bucket	3 ft. 10 in. (1.1			4 ft. 1 in. (1.25				
H Overall Length								
With 4.0-cuyd. (3.1 m³) Bucket	25 ft. 8 in. (7.82 m)			26 ft. 6 in. (8.07 m)				
With 5.0-cuyd. (3.8 m³) Bucket	25 ft. 8 in. (7.8	32 m)		27 ft. 0 in. (8.24 m)				
With 6.0-cuyd. (4.6 m³) Bucket	26 ft. 5 in. (8.0	05 m)		27 ft. 9 in. (8.47 m)				
Maximum Rollback at Ground Level	34.2 deg.			34.7 deg.				
J Maximum Rollback at Full Height	51.1 deg.			47.4 deg.				
K Maximum Dump Angle at Full Height	49.0 deg.			45.5 deg.				
Capacity, Heaped, with Bolt-On Cutting Edge	4.0 cu. yd.	5.0 cu. yd.	6.0 cu. yd.	4.0 cu. yd.	5.0 cu. yd.	6.0 cu. yd.		
	(3.1 m^3)	(3.8 m ³)	(4.6 m ³)	(3.1 m^3)	(3.8 m ³)	(4.6 m ³)		
Capacity, Struck	3.5 cu. yd.	4.3 cu. yd.	4.6 cu. yd.	3.5 cu. yd.	3.8 cu. yd.	4.6 cu. yd.		
	(2.7 m^3)	(3.3 m^3)	(3.5 m^3)	(2.7 m^3)	(2.9 m ³)	(3.5 m^3)		
Breakout Force	29,774 lb.	25,567 lb.	21,300 lb.	26,991 lb.	23,137 lb.	19,223 lb.		
	(13 505 kg)	(11 597 kg)	(9662 kg)	(12 243 kg)	(10 495 kg)	(8719 kg)		
Tipping Load, Straight	27,763 lb.	26,898 lb.	25,717 lb.	22,869 lb.	22, 103 lb.	21,064 lb.		
	(12 593 kg)	(12 201 kg)	(11 665 kg)	(10 373 kg)	(10 026 kg)	(9554 kg)		
Tipping Load, 40-deg. Full Turn	24,156 lb.	23,354 lb.	22,255 lb.	19,809 lb.	19,095 lb.	18,122 lb.		
	(10 957 kg)	(10 593 kg)	(10 095 kg)	(8985 kg)	(8661 kg)	(8220 kg)		
Bucket Weight	3,550 lb.	3,900 lb.	4,400 lb.	3,550 lb.	3,550 lb.	4,400 lb.		
	(1610 kg)	(1769 kg)	(1996 kg)	(1610 kg)	(1610 kg)	(1996 kg)		
Bucket Width	9 ft. 6 in.							
	(2.90 m)							
Reach, 45-deg. Dump, 7-ft. (2.13 m) Clearance	4 ft. 9 in.	4 ft. 11 in.	5 ft. 2 in.	5 ft. 11 in.	5 ft. 11 in.	6 ft. 5 in.		
	(1.44 m)	(1.49 m)	(1.56 m)	(1.80 m)	(1.80 m)	(1.95 m)		
Loader Clearance Circle, Bucket Carry Position	40 ft. 10 in.	41 ft. 2 in.	41 ft. 8 in.	42 ft. 0 in.	42 ft. 5 in.	42 ft. 11 in.		
•	(12.45 m)	(12.55 m)	(12.69 m)	(12.81 m)	(12.92 m)	(13.08 m)		



Machine Dimensions	644K WH						
inkage with Pin-On Bucket	Standard Z-Bar			High-Lift Z-Bar	High-Lift Z-Bar		
Height to Top of Cab and Canopy	11 ft. 5 in. (3.47 m)			11 ft. 5 in. (3.47	11 ft. 5 in. (3.47 m)		
Ground Clearance	20 in. (516 mm)			20 in. (516 mm			
Length from Centerline to Front Axle	5 ft. 3 in. (1.60	m)		5 ft. 3 in. (1.60	m)		
) Wheelbase	10 ft. 8 in. (3.26	5 m)		10 ft. 8 in. (3.26	5 m)		
Dump Clearance							
With 5.0-cuyd. (3.8 m³) Bucket	9 ft. 8 in. (2.96	m)		11 ft. 4 in. (3.4	5 m)		
With 6.0-cuyd. (4.6 m³) Bucket	9 ft. 2 in. (2.79	m)		10 ft. 10 in. (3.)	30 m)		
With 7.0-cuyd. (5.4 m³) Bucket	8 ft. 10 in. (2.69	9 m)		10 ft. 6 in. (3.2	1 m)		
Height to Hinge Pin, Fully Raised	13 ft. 10 in. (4.2	1 m)		15 ft. 2 in. (4.6)	3 m)		
Dump Reach	·	,			,		
With 5.0-cuyd. (3.8 m³) Bucket	3 ft. 1 in. (0.93	mm)		3 ft. 9 in. (1.15	m)		
With 6.0-cuyd. (4.6 m³) Bucket	3 ft. 7 in. (1.08	m)		4 ft. 4 in. (1.33	m)		
With 7.0-cuyd. (5.4 m³) Bucket	3 ft. 11 in. (1.19	9 m)		4 ft. 9 in. (1.44	m)		
Overall Length							
With 5.0-cuyd. (3.8 m³) Bucket	26 ft. 3 in. (7.99	9 m)		27 ft. 10 in. (8.49 m)			
With 6.0-cuyd. (4.6 m³) Bucket	27 ft. 0 in. (8.22	m)		28 ft. 7 in. (8.71 m)			
With 7.0-cuyd. (5.4 m³) Bucket	27 ft. 6 in. (8.37	⁷ m)		29 ft. 1 in. (8.86 m)			
Maximum Rollback at Ground Level	37.0 deg.			39.0 deg.	J		
Maximum Rollback at Full Height	55.0 deg.			47.0 deg.			
Maximum Dump Angle at Full Height	45.0 deg.			40.0 deg.			
apacity, Heaped, with Bolt-On Cutting Edge	5.0 cu. yd.	6.0 cu. yd.	7.0 cu. yd.	5.0 cu. yd.	6.0 cu. yd.	7.0 cu. yd.	
	(3.8 m ³)	(4.6 m ³)	(5.4 m ³)	(3.8 m^3)	(4.6 m ³)	(5.4 m^3)	
apacity, Struck	4.3 cu. yd.	5.5 cu. yd.	6.2 cu. yd.	4.3 cu. yd.	5.5 cu. yd.	6.2 cu. yd.	
	(3.3 m ³)	(4.2 m ³)	(4.8 m ³)	(3.3 m ³)	(4.2 m ³)	(4.8 m ³)	
Breakout Force	34,471 lb.	28,848 lb.	26,043 lb.	30,674 lb.	25,604 lb.	23,075 lb.	
	(15 636 kg)	(13 085 kg)	(11 813 kg)	(13 913 kg)	(11 614 kg)	(10 467 kg)	
ipping Load, Straight	33,711 lb.	32,213 lb.	30,624 lb.	27,060 lb.	25,730 lb.	24,387 lb.	
	(15 291 kg)	(14 612 kg)	(13 891 kg)	(12 274 kg)	(11 671 kg)	(11 062 kg)	
ipping Load, 40-deg. Full Turn	29,328 lb.	27,915 lb.	26,450 lb.	23,418 lb.	22,157 lb.	20,909 lb.	
	(13 303 kg)	(12 662 kg)	(11 997 kg)	(10 622 kg)	(10 050 kg)	(9484 kg)	
Bucket Weight	3,800 lb.	4,000 lb.	4,800 lb.	3,800 lb.	4,000 lb.	4,800 lb.	
	(1724 kg)	(1814 kg)	(2177 kg)	(1724 kg)	(1814 kg)	(2177 kg)	
Bucket Width	9 ft. 6 in.	9 ft. 6 in.	9 ft. 6 in.				
	(2.90 m)	(2.90 m)	(2.90 m)	(2.90 m)	(2.90 m)	(2.90 m)	
Reach, 45-deg. Dump, 7-ft. (2.13 m) Clearance	6 ft. 5 in.	5 ft. 3 in.	5 ft. 4 in.	6 ft. 5 in.	6 ft. 9 in.	6 ft. 11 in.	
	(1.96 m)	(1.60 m)	(1.64 m)	(1.96 m)	(2.05 m)	(2.10 m)	
					1.2		
oader Clearance Circle, Bucket Carry Position	42 ft. 9 in.	43 ft. 2 in.	43 ft. 6 in.	44 ft. 1 in.	44 ft. 7 in.	44 ft. 11 in.	



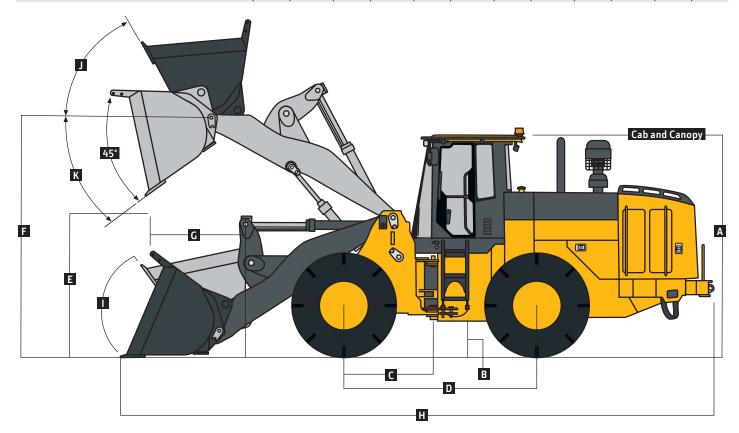
724K WH / 744K WH

Engine	724K WH		744K WH		
Manufacturer and Model	John Deere PowerTech™	¹ Plus 6090H	John Deere PowerTech Plus 6090H		
Non-Road Emission Standards	Certified to EPA Tier 3 er	missions	Certified to EPA Tier 3 emissions		
Cylinders	6		6		
Valves per Cylinder	4		4		
Displacement	548 cu. in. (9.0 L)		548 cu. in. (9.0 L)		
Net Peak Power	264 hp (197 kW) at 1,80	00 rpm	304 hp (227 kW) at 1,50	0 rpm	
Net Peak Torque	852 lbft. (1159 Nm) at	1,300 rpm	1,074 lbft. (1456 Nm) a	at 1,400 rpm	
Net Torque Rise	36%	·	47%	·	
Fuel System (electronically controlled)	High-pressure common	rail	High-pressure common i	rail	
Lubrication	Full-flow spin-on filter a	nd integral cooler	Full-flow spin-on filter a	nd integral cooler	
Aspiration	Turbocharged, charge ai	ir cooled	Turbocharged, charge ai	r cooled	
Air Cleaner			cator in cab monitor for serv		
Cooling					
Fan Drive	Hydraulically driven, pro	portionally controlled, fan	aft of coolers		
Fan Type	Blower type		Blower type		
Engine Coolant Rating	–34 deg. F (–37 deg. C)		–34 deg. F (–37 deg. C)		
Engine Radiator	8.0 fins per in. (water to	air)	10.0 fins per in. (water to air)		
Hydraulic Cooler	6.0 fins per in. (oil to air		10.5 fins per in. (oil to air)		
Charge Air Cooler	10.5 fins per in. (air to a		10.5 fins per in. (air to air)		
Transmission Oil Cooler	10.5 fins per in. (oil to ai		10.5 fins per in. (oil to air)		
Transmission			· ·		
Туре	Countershaft-type Powe	erShift™	Countershaft-type Powe	rShift	
Torque Converter	Single stage, single phas	se	Single stage, dual phase with freewheeling stator torque		
Operator Interface	Steering-column- or joys	stick-mounted F-N-R and ge	ear-select lever; quick-shift	button on hydraulic lever	
Shift Control	Electronically modulated	d, adaptive, load and speed	dependent		
Shift Modes	Manual/auto (1st-D or 2	nd-D); quick-shift button w	vith 2 selectable modes: kicl	k-down or kick-up/down;	
	and 3 adjustable clutch	cutoff settings			
Maximum Gear	Programmable via monit	tor	Programmable via monit	or	
	With 23.5 R 25 Radial Ti	ires	With 26.5 R 25 1 Star Ro	adial Tires	
Travel Speeds	Forward Maximum	Reverse Maximum	Forward Maximum	Reverse Maximum	
Gear 1	4.5 mph (7.2 km/h)	4.7 mph (7.6 km/h)	4.6 mph (7.4 km/h)	4.6 mph (7.4 km/h)	
Gear 2	7.4 mph (11.9 km/h)	7.8 mph (12.5 km/h)	8.6 mph (13.8 km/h)	8.6 mph (13.8 km/h)	
Gear 3	14.4 mph (23.1 km/h)	15.1 mph (24.2 km/h)	13.1 mph (21.1 km/h)	18.8 mph (30.2 km/h)	
Gear 4	22.1 mph (35.6 km/h)		24.9 mph (40.0 km/h)	_ '	
Axles/Brakes	724K WH / 744K WH				
Final Drives	Heavy-duty inboard-mor	unted planetary			
Differentials	Hydraulic locking front v	with conventional rear – sta	indard; dual locking front ar	nd rear – optional	
Rear Axle Oscillation (stop to stop)	26 deg.				
Brakes (conform to ISO 3450)	-				
Service Brakes	Hydraulically actuated, i	nboard sun-shaft mounted	, oil cooled, self-adjusting, s	single disc	
Parking Brake	Automatic spring applied	d, hydraulically released, dr	iveline mounted, oil cooled,	, multi disc	
		-			

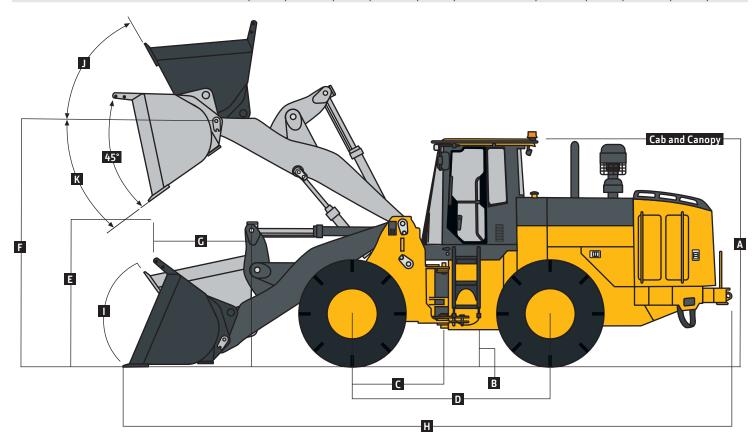


Tires/Wheels	724K WH		744K WH			
	With 23.5 x 25 Solid Rubb	oer Tires	With 31.5 x 25 Solid Rubber	With 26.5 x 25 Solid Rubber	With 26.5 R 25 X-MINE L5 Mich	
			Tires	Tires	elin Radial Tires	
Tread Width	85.4 in. (2169 mm)		95.0 in.	89.5 in.	86.6 in.	
ireau wiutii	05.4 III. (2109 IIIIII)	05.4 III. (2109 IIIIII)				
Width Over Tires	112 2 :- (2075)		(2400 mm) 126.0 in.	(2273 mm)	(2200 mm)	
width Over Tires	113.2 in. (2875 mm)		(3200 mm)	116.0 in. (2946 mm)	116.2 in. (2951 mm)	
Hydraulic System/Steering			(3200 11111)	(23 10 11111)	(2331 11111)	
Pump (loader and steering)	Variable-displacement, ax	ial-piston pump; closed-	2 variable-displacement, load-sensing, axial-piston			
	center, pressure-compens	sating system	pumps; closed-ce	enter, pressure-co	mpensating systen	
Maximum Rated Flow at 1,000 psi (6895 kPa) and	82 gpm (310 L/m)		136 gpm (515 L/			
2,250 rpm	5.		<u> </u>			
System Relief Pressure, Loader and Steering	3,650 psi (25 166 kPa)		3,288 psi (22 670) kPa)		
Loader Controls		or fingertip control; hydraulic-			ver controls; contro	
		ptional 3rd- and 4th-function			- and 4th-function	
	valve with auxiliary lever		valve with auxilia			
Steering (conforms to ISO 5010)	, , , , , , , , , , , , , , , , , , ,			,		
Type	Power, fully hydraulic		Power, fully hydraulic			
Articulation Angle	80-deg. arc (40 deg. each	direction)	80-deg. arc (40 deg. each direction)		٦)	
Hydraulic Cycle Times	Standard Z-Bar	High-Lift Z-Bar	Standard Z-Bar High-Lift Z-l			
Raise	5.5 sec.	5.5 sec.	5.9 sec.	5.9 se		
Dump	1.2 sec.	1.4 sec.	1.4 sec. 1.4 sec.			
Lower (float down)	3.0 sec.	3.0 sec.	2.8 sec.	2.8 sec. 2.8 sec.		
Total	9.7 sec.	9.9 sec.	10.1 sec. 10.1 sec.			
Turning Radius						
Measured to Centerline of Outside Tire	18 ft. 6 in. (5.64 m)		20 ft. 7 in. (6.28	m)		
Electrical System	724K WH / 744K WH		(, ,	,		
Electrical System		nator (100-amp alternator op	tional)			
Batteries (2 – 12 volt)	1,400 CCA (each)	,	,			
Serviceability	724K WH		744K WH			
Refill Capacities						
Fuel Tank	93 gal. (352 L)		124 gal. (469 L)			
Cooling System	36 qt. (34 L)		47 at. (45 L)			
Engine Oil with Vertical Spin-On Filter	30 qt. (28 L)		36 qt. (34 L)			
Transmission Fluid with Vertical Spin-On Filter	25 qt. (24 L)		29.5 qt. (27.9 L)			
Axle Oil (front and rear)	23 qt. (22 L)		49 gt. (46 L)			
Hydraulic Reservoir and Filters	29 gal. (110 L)		42 gal. (159 L)			
Park Brake Oil (wet disc)	20 oz. (0.6 L)		24 oz. (0.7 L)			
, ,	20 02. (0.0 2)					
Operating Weights		79 kg) operator				
, ,	full fuel tank, and 175-lb. (7		With 31.5 x 25 S	olid Rubber Tires		
Operating Weights	full fuel tank, and 175-lb. (7 With 23.5 x 25 Solid Rubb	per Tires		olid Rubber Tires Hiah-	Lift Z-Bar	
Operating Weights All configurations include waste-handler protection, cab,	full fuel tank, and 175-lb. (7 With 23.5 x 25 Solid Rubb Standard Z-Bar	per Tires High-Lift Z-Bar	With 31.5 x 25 S Standard Z-Bar		Lift Z-Bar	
Operating Weights All configurations include waste-handler protection, cab, 5.0-cuyd. (3.8 m³) Standard-Lip Bucket	full fuel tank, and 175-lb. (7 With 23.5 x 25 Solid Rubl Standard Z-Bar 48,988 lb. (22 200 kg)	per Tires High-Lift Z-Bar 49,486 lb. (22 447 kg)	Standard Z-Bar	High-		
Operating Weights All configurations include waste-handler protection, cab,	full fuel tank, and 175-lb. (7 With 23.5 x 25 Solid Rubb Standard Z-Bar	per Tires High-Lift Z-Bar	Standard Z-Bar	High- — 73 kg) 65,53	<i>Lift Z-Bar</i> 0 lb. (29 724 kg) 3 lb. (29 916 kg)	

Machine Dimensions	724K WH							
Linkage with Pin-On Bucket	Standard Z-Ba	ır		High-Lift Z-Ba	High-Lift Z-Bar			
A Height to Top of Cab and Canopy	11 ft. 5 in. (3.4	11 ft. 5 in. (3.47 m)			11 ft. 5 in. (3.47 m)			
B Ground Clearance	20 in. (516 mm	n)		20 in. (516 mm	n)			
C Length from Centerline to Front Axle	5 ft. 3 in. (1.60) m)		5 ft. 3 in. (1.60) m)			
D Wheelbase	10 ft. 8 in. (3.2	.6 m)		10 ft. 8 in. (3.2	.6 m)			
E Dump Clearance								
With 5.0-cuyd. (3.8 m³) Bucket	9 ft. 8 in. (2.96	5 m)		11 ft. 4 in. (3.4	₊5 m)			
With 6.0-cuyd. (4.6 m ³) Bucket	9 ft. 2 in. (2.79	9 m)		10 ft. 10 in. (3	.30 m)			
With 7.0-cuyd. (5.4 m ³) Bucket	8 ft. 10 in. (2.6	59 m)		10 ft. 6 in. (3.2	?1 m)			
F Height to Hinge Pin, Fully Raised	13 ft. 10 in. (4.)	21 m)		15 ft. 2 in. (4.6	i3 m)			
G Dump Reach								
With 5.0-cuyd. (3.8 m³) Bucket	3 ft. 1 in. (0.93	3 m)		3 ft. 9 in. (1.15	5 m)			
With 6.0-cuyd. (4.6 m³) Bucket	3 ft. 7 in. (1.08	3 m)		4 ft. 4 in. (1.33	3 m)			
With 7.0-cuyd. (5.4 m³) Bucket	3 ft. 11 in. (1.1	9 m)		4 ft. 9 in. (1.44	+ m)			
H Overall Length								
With 5.0-cuyd. (3.8 m³) Bucket	26 ft. 3 in. (7.9	99 m)		27 ft. 10 in. (8.49 m)				
With 6.0-cuyd. (4.6 m³) Bucket	27 ft. 0 in. (8.2)	2 m)		28 ft. 7 in. (8.71 m)				
With 7.0-cuyd. (5.4 m³) Bucket	27 ft. 6 in.(8.3	7 m)		29 ft. 1 in. (8.86 m)				
I Maximum Rollback at Ground Level	37.0 deg.			39.0 deg.				
J Maximum Rollback at Full Height	55.0 deg.			47.0 deg.				
K Maximum Dump Angle at Full Height	45.0 deg.			40.0 deg.				
Capacity, Heaped, with Bolt-On Cutting Edge	5.0 cu. yd.	6.0 cu. yd.	7.0 cu. yd.	5.0 cu. yd.	6.0 cu. yd.	7.0 cu. yd.		
	(3.8 m ³)	(4.6 m ³)	(5.4 m ³)	(3.8 m^3)	(4.6 m ³)	(5.4 m ³)		
Capacity, Struck	4.3 cu. yd.	5.5 cu. yd.	6.2 cu. yd.	4.3 cu. yd.	5.5 cu. yd.	6.2 cu. yd.		
	(3.3 m^3)	(4.2 m ³)	(4.8 m ³)	(3.3 m^3)	(4.2 m ³)	(4.8 m ³)		
Breakout Force	34,471 lb.	28,848 lb.	26,043 lb.	30,674 lb.	25,604 lb.	23,075 lb.		
	(15 636 kg)	(13 085 kg)	(11 813 kg)	(13 913 kg)	(11 614 kg)	(10 467 kg)		
Tipping Load, Straight	37,872 lb.	36,292 lb.	34,586 lb.	30,514 lb.	29,118 lb.	27,686 lb.		
	(17 178 kg)	(16 462 kg)	(15 688 kg)	(13 841 kg)	(13 208 kg)	(12 558 kg)		
Tipping Load, 40-deg. Full Turn	32,875 lb.	31,393 lb.	29,827 lb.	26,362 lb.	25,045 lb.	23,720 lb.		
	(14 912 kg)	(14 240 kg)	(13 530 kg)	(11 958 kg)	(11 360 kg)	(10 759 kg)		
Bucket Weight	3,800 lb.	4,000 lb.	4,800 lb.	3,800 lb.	4,000 lb.	4,800 lb.		
	(1724 kg)	(1814 kg)	(2177 kg)	(1724 kg)	(1814 kg)	(2177 kg)		
Bucket Width	9 ft. 6 in.	9 ft. 6 in.	9 ft. 6 in.					
	(2.90 mm)	(2.90 mm)	(2.90 m)	(2.90 m)	(2.90 mm)	(2.90 m)		
Reach, 45-deg. Dump, 7-ft. (2.13 m) Clearance	5 ft. 0 in.	5 ft. 3 in.	5 ft. 5 in.	6 ft. 5 in.	6 ft. 9 in.	6 ft. 11 in.		
	(1.53 m)	(1.60 m)	(1.65 m)	(1.96 m)	(2.05 m)	(2.10 m)		
Loader Clearance Circle, Bucket Carry Position	42 ft. 9 in.	43 ft. 2 in.	43 ft. 6 in.	44 ft. 1 in.	44 ft. 7 in.	44 ft. 11 in.		
	(13.02 m)	(13.16 m)	(13.26 m)	(13.45 m)	(13.60 m)	(13.70 m)		



Machine Dimensions	744K WH							
Linkage with Pin-On Bucket	Standard Z-Bai	-		High-Lift Z-Bar	High-Lift Z-Bar			
A Height to Top of Cab and Canopy	11 ft. 8 in. (3.50	11 ft. 8 in. (3.56 m)			11 ft. 8 in. (3.56 m)			
B Ground Clearance	21 in. (531 mm)		21 in. (531 mm)			
C Length from Centerline to Front Axle	5 ft. 7 in. (1.70	m)		5 ft. 3 in. (1.60	m)			
D Wheelbase	11 ft. 4 in. (3.4)	5 m)		5 ft. 7 in. (1.70	m)			
E Dump Clearance								
With 6.0-cuyd. (4.7 m³) Bucket	9 ft. 10 in. (2.9)	9 m)		12 ft. 1 in. (3.6	9 m)			
With 7.0-cuyd. (5.3 m³) Bucket	9 ft. 6 in. (2.89	m)		11 ft. 10 in. (3.	61 m)			
With 8.0-cuyd. (6.1 m ³) Bucket	9 ft. 2 in. (2.79	m)		11 ft. 7 in. (3.5	2 m)			
F Height to Hinge Pin, Fully Raised	14 ft. 3 in. (4.33	m)		16 ft. 1 in. (4.9	0 m)			
G Dump Reach								
With 6.0-cuyd. (4.7 m³) Bucket	3 ft. 10 in. (1.1	7 m)		4 ft. 11 in. (1.5	0 m)			
With 7.0-cuyd. (5.3 m³) Bucket	4 ft. 2 in. (1.26	m)		5 ft. 3 in. (1.61	m)			
With 8.0-cuyd. (6.1 m³) Bucket	4 ft. 6 in. (1.37	m)		5 ft. 8 in. (1.73	m)			
H Overall Length								
With 6.0-cuyd. (4.7 m³) Bucket	29 ft. 6 in. (9.0	0 m)		31 ft. 8 in. (9.65 m)				
With 7.0-cuyd. (5.3 m³) Bucket	29 ft. 11 in. (9.	13 m)		32 ft. 1 in. (9.78 m)				
With 8.0-cuyd. (6.1 m³) Bucket	30 ft. 6 in. (9.2)	9 m)		32 ft. 7 in. (9.9	32 ft. 7 in. (9.94 m)			
I Maximum Rollback at Ground Level	36.3 deg.			37.7 deg.				
J Maximum Rollback at Full Height	53.0 deg.			51.1 deg.				
K Maximum Dump Angle at Full Height	47.0 deg.			36.9 deg.				
Capacity, Heaped, with Bolt-On Cutting Edge	6.0 cu. yd.	7.0 cu. yd.	8.0 cu. yd.	6.0 cu. yd.	7.0 cu. yd.	8.0 cu. yd.		
	(4.6 m³)	(5.4 m ³)	(6.1 m ³)	(4.6 m ³)	(5.3 m ³)	(6.1 m ³)		
Capacity, Struck	5.3 cu. yd.	6.2 cu. yd.	7.1 cu. yd.	5.3 cu. yd.	6.2 cu. yd.	7.1 cu. yd.		
	(4.1 m ³)	(4.7 m ³)	(5.4 m^3)	(4.1 m ³)	(4.7 m^3)	(5.4 m ³)		
Breakout Force	39,756 lb.	36,305 lb.	32,691 lb.	35,368 lb.	32,281 lb.	29,024 lb.		
	(18 033 kg)	(16 468 kg)	(14 828 kg)	(16 043 kg)	(14 642 kg)	(13 165 kg)		
Tipping Load, Straight	47,772 lb.	46,788 lb.	45,837 lb.	38,442 lb.	36,956 lb.	36,281 lb.		
	(21 669 kg)	(21 223 kg)	(20 792 kg)	(17 437 kg)	(16 763 kg)	(16 427 kg)		
Tipping Load, 40-deg. Full Turn	41,298 lb.	40,384 lb.	39,512 lb.	32,962 lb.	31,644 lb.	31,014 lb.		
	(18 733 kg)	(18 318 kg)	(17 922 kg)	(14 951 kg)	(14 353 kg)	(14 068 kg)		
Bucket Weight	6,467 lb.	6,889 lb.	7,200 lb.	6,467 lb.	6,889 lb.	7,200 lb.		
	(2933 kg)	(3125 kg)	(3266 kg)	(2933 kg)	(3125 kg)	(3266 kg)		
Bucket Width	10 ft. 8 in.							
	(3.25 m)							
Reach, 45-deg. Dump, 7-ft. (2.13 m) Clearance	5 ft. 10 in.	5 ft. 11 in.	6 ft. 1 in.	7 ft. 8 in.	7 ft. 8 in.	8 ft. 0 in.		
	(1.77 m)	(1.82 m)	(1.87 m)	(2.33 m)	(2.33 m)	(2.45 m)		
Loader Clearance Circle, Bucket Carry Position	44 ft. 8 in.	46 ft. 0 in.	46 ft. 3 in.	47 ft. 6 in. (47 ft. 9 in.	48 ft. 1 in.		
	(13.61 m)	(14.02 m)	(14.10 m)	14.48 m)	(14.55 m)	(14.66 m)		



Additional equipment

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

524 544 624 644 724 744		524 544 624 644 724 744	• • •	524 544 624 644 724 744	
• • • • • •	Wet-sleeve cylinder liners	• • • • • •	Lights: Halogen driving lights with		(continued)
• •	Automatic glow plugs for cold start		guards (2) / Front (4) and rear (2)	• • • • •	Cab-floor-mounted lockable master
$\bullet \hspace{0.1cm} \bullet \hspace{0.1cm} \bullet \hspace{0.1cm} \bullet \hspace{0.1cm} \bullet \hspace{0.1cm} \bullet$	Programmable auto-idle and		cab work lights (and rear grille (2)		electrical disconnect switch
	-shutdown		work lights for the 744K) / Turn	• • • • •	Extreme-duty cab-entry steps
\bullet \bullet \bullet \bullet \bullet	Selectable idle adjustment from		signals and flashers / LED stop-	A A A A A	Extreme-duty hydraulic bottom
	900–1,250 rpm		and taillights		guards (fuel tank, loader frame,
• • • • • •	Automatic derating for exceeded	• • • • •	Reverse warning alarm		and engine frame)
	system temperatures	• • • • • •	Multifunction/multi-language LCD		Bottom guards, bolt-on, front
• • • • • •	Serpentine drive belt for automatic		color monitor		frame and transmission
	tensioner	• • • • •	Indicator lights: Standard and	• • • • •	Full-frontal cab window guard
• •	Electric fuel-priming pump		selected options / Amber caution		(high-visibility version not designed
• • • • •	Dual-stage fuel filter and water		and red stop		to SAE J1084)
	separator	• • • • • •	Built-in diagnostics: Diagnostic- code details / Sensor values / Cali-	• • • • •	Rear-access platforms with step,
• • • • •	500-hour vertical spin-on oil filter		brations / Individual circuit tester		handhold, and tie-downs
• • •	Engine-compartment light			• • • • •	Cab-roof-mounted strobe light
A A A A A	Chrome exhaust stack	A A A A A	Electrical corrosion-prevention package		Loader Linkage
A A	Automatic ether starting aid	A A A A A	AM/FM/WB radio	• • • • •	Z-bar loader linkage
	(recommended for cold starts		AM/FM/WB radio with CD player	A A A A A	High-lift Z-bar loader linkage
	below 10 deg. F [–12 deg. C])	A A A A A	Operator's Station		Buckets and Attachments
* * * * *	Engine-block heater (recommended		Key-less start with multiple secu-		Full line of Deere pin-on buckets
	for cold starts below –10 deg. F		rity modes	A A A	Worksite Pro™ hydraulic coupler
	[–23 deg. C])		Hydraulic controls integrated		(accepts JRB-pattern attachments)
	Powertrain		to seat	A A A	Hi-vis hydraulic coupler (accepts Euro-pattern attachments [Volvo])
	Programmable maximum high gear		Cup holders (2)		Full line of Deere hook-on buckets
• • • • • •	2,000-hour vertical spin-on trans- mission filter		Lunch-box/cooler holder	A A A	and forks
	Transmission diagnostic ports	A A A A O O	12-volt power port	A A A A	Bolt-on fork frame guard
A A A A O O	Wheel-spin control		Rubber floor mat	A A A	Overall Vehicle
A A A A • •	Quad-Cool™ Cooling System		Tilt steering column	A A	JDLink™ Ultimate wireless commu-
	[new for 724K and 744K]		Outside and inside rearview mirrors		nication system (standard on 624K
	Heavy-duty, trash-resistant radiator		Slip-resistant steps and ergonomic		cabs / optional on 624K canopies)
	and high-ambient cooling package		handholds		NeverGrease™ rear-axle oscillation
	Antifreeze, –34 deg. F (–37 deg. C)	A A A A	Quiet cab with heater		NeverGrease steering-cylinder joints
	Cool-on-demand swing-out fan	A A A A • •	Quiet cab with air conditioning/		Front and rear tie-downs
A A A A A	Automatic reversing fan drive		heater		Fenders, front
	Axle coolers		Sun visor	A A A A A A	Fenders, full-coverage, front or
	Harsh environmental coolers		Front and rear intermittent wind-		front and rear
	Hydraulics		shield wiper and washers		Rear hitch with locking pin
	Automatic return to dig		Premium seat with high-wide back	A A A	Rear cast bumper/counterweight
	In-cab adjustable automatic boom-		and headrest extension, heated,		with rear hitch and locking pin
	height kickout/return to carry		leather/fabric cover, and adjust-	• • • • •	Articulation locking bar
	Reservoir with sight gauge and fill		able air suspension		Loader boom service locking bar
	strainer		Seat with backrest extension, deep	• • • • •	40-deg. steering articulation to
	Hydraulic diagnostic ports		foam, fabric cover, and adjustable		each side
	4,000-hour in-tank filter		air suspension	• • • • •	Vandal protection with lockable
	2-function hydraulic control		Powered cab air pre-cleaner		engine enclosures, right counter-
A A A A A	3-function hydraulic control	A A A A A	Large heated outside mirrors		weight storage, battery box, and
A A A A	4-function hydraulic control		Rear camera and radar object-		filler access for radiator/fuel/
	Steering Systems		detection system		hydraulic/transmission
	Conventional steering wheel with	A A A A A	Embedded payload scale	• • • • •	Ground-level fueling
	spinner knob		Fire extinguisher	A A A O O	Environmental drains for engine,
	Joystick steering (including conven-		Waste-Handler Package		transmission, hydraulic oils, and
	tional steering column) with gear-	• • • • • •	Waste-handler guards: Articula-		engine coolant
	shift, F-N-R, and horn		tion / Axle seal / Boom cylinder and	A A A • • •	Fluid-sampling ports for engine,
A A A A A			hydraulic lines / Bucket-cylinder		transmission, hydraulic and axle
	Electrical		hydraulic lines, zerk, and sensor /		oils, and engine coolant
	Solid-state electrical power-distri-		Driveshaft / Extreme-duty front		Level 1 or Level 2 sound package
	bution system		loader frame cover with handles /	A A A	Quick fluid service (engine, trans-
	Battery-terminal safety covers		Extreme-duty transmission side /		mission, hydraulic oils, and engine
	By-pass start safety cover at		Lower boom and bucket grease- fitting / Rear loader frame cover /		coolant)
	starter		3	A A A A	Close-mounted steps
			Drive, turn, and work light	A A A A O	Lift eyes
					License-plate bracket and light

