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JOHN DEERE

J

DOZER

750J



J-SERIES



Specifications

750J

Engine	750J	750J LT	750J WT	750J LGP
Type	John Deere POWERTECH™ 6068H with turbocharger and air-to-air after-cooler; meets Tier II non-road emissions regulations	John Deere POWERTECH 6068H with turbocharger and air-to-air after-cooler; meets Tier II non-road emissions regulations	John Deere POWERTECH 6068H with turbocharger and air-to-air after-cooler; meets Tier II non-road emissions regulations	John Deere POWERTECH 6068H with turbocharger and air-to-air after-cooler; meets Tier II non-road emissions regulations
Rated Power @ 2,100 rpm	145 SAE net hp (108 kW) / 157 SAE gross hp (117 kW)	145 SAE net hp (108 kW) / 157 SAE gross hp (117 kW)	145 SAE net hp (108 kW) / 157 SAE gross hp (117 kW)	155 SAE net hp (116 kW) / 168 SAE gross hp (125 kW)
Cylinders	6	6	6	6
Displacement	414 cu. in. (6.8 L)	414 cu. in. (6.8 L)	414 cu. in. (6.8 L)	414 cu. in. (6.8 L)
Maximum Net Torque @ 1,400 rpm	500 lb.-ft. (680 Nm)	500 lb.-ft. (680 Nm)	500 lb.-ft. (680 Nm)	540 lb.-ft. (730 Nm)
Lubrication	pressure system with full-flow spin-on filter and oil-to-water cooler	pressure system with full-flow spin-on filter and oil-to-water cooler	pressure system with full-flow spin-on filter and oil-to-water cooler	pressure system with full-flow spin-on filter and oil-to-water cooler
Air Cleaner	dual-stage dry type with safety element, precleaner, and underhood restriction indicator	dual-stage dry type with safety element, precleaner, and underhood restriction indicator	dual-stage dry type with safety element, precleaner, and underhood restriction indicator	dual-stage dry type with safety element, precleaner, and underhood restriction indicator
Electrical System	24 volt with 80-amp alternator	24 volt with 80-amp alternator	24 volt with 80-amp alternator	950 cold-cranking amps, 190-min. reserve capacity
Batteries (two 12-volt)	950 cold-cranking amps, 190-min. reserve capacity	950 cold-cranking amps, 190-min. reserve capacity	950 cold-cranking amps, 190-min. reserve capacity	950 cold-cranking amps, 190-min. reserve capacity
Cooling Fan	variable-speed suction	variable-speed suction	variable-speed suction	variable-speed suction
Cooling Fan Filter, Return Oil	10 micron	10 micron	10 micron	10 micron

Transmission

Automatic, dual-path, hydrostatic drive; load-sensing feature automatically adjusts speed and power to match changing load conditions; each individually controlled track is powered by a variable-displacement piston pump and motor combination; travel speeds (forward and reverse) infinite to 6.3 mph (0 to 10 km/h); ground-speed selection buttons on single-lever steering and direction control; independently selectable reverse speed ratios 80%, 100%, 115%, or 130% of forward ground speed; decelerator pedal controls ground speed to dead stop

Type	dual-path hydrostatic
System Relief Pressure	6,650 psi (45 850 kPa)
Filter, Charge Oil	10 micron
Cooling	oil-to-air
Travel Speeds (forward and reverse)	0–6.3 mph (0–10 km/h) / 6.8 mph (11 km/h) max. (optional)

Final Drives

Double-reduction, planetary final drives transfer torque loads over three gear sets; mounted independently of track frames and dozer push frames for isolation from shock loads

Total Ratio	46.4056 to 1	46.4056 to 1	46.4056 to 1	46.4056 to 1
Drawbar Pull				
Maximum	55,000 lb. (245 kN)	55,000 lb. (245 kN)	55,000 lb. (245 kN)	55,000 lb. (245 kN)
@ 1.2 mph (1.9 km/h)	33,000 lb. (147 kN)	33,000 lb. (147 kN)	33,000 lb. (147 kN)	35,500 lb. (156 kN)
@ 2.0 mph (3.2 km/h)	22,000 lb. (98 kN)	22,000 lb. (98 kN)	22,000 lb. (98 kN)	24,000 lb. (107 kN)

Steering

Single-lever steering, speed, direction control, and counterrotation; full power turns and infinitely variable track speeds provide unlimited maneuverability and optimum control; hydrostatic steering eliminates steering clutches and brakes

Brakes

Hydrostatic (dynamic) braking stops machine when the direction/steering control lever is moved to neutral or the decelerator is depressed to the end of travel

Type	hydraulic
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Automatic Parking Brake

Exclusive safety feature engages wet, multiple-disc brakes whenever the engine stops, whenever the decelerator is depressed to the end of travel, or whenever the park lock lever is placed in the start or neutral positions and motion is detected; machine cannot be driven with brake applied, reducing wear out or need for adjustment

Type	spring-applied, hydraulic release
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Hydraulic System

System Type	load sense	load sense	load sense	load sense
System Relief Pressure	3,625 psi (25 000 kPa)	3,625 psi (25 000 kPa)	3,625 psi (25 000 kPa)	3,625 psi (25 000 kPa)
Differential Pressure	275 psi (1900 kPa)	275 psi (1900 kPa)	275 psi (1900 kPa)	275 psi (1900 kPa)
Pump Type	piston	piston	piston	piston
Pump (63 cc)	38 gpm (144 L/min.)	38 gpm (144 L/min.)	38 gpm (144 L/min.)	38 gpm (144 L/min.)
Maximum Flow @ Unloaded High Idle	37 gpm (140 L/min.)	37 gpm (140 L/min.)	37 gpm (140 L/min.)	37 gpm (140 L/min.)
Filter, Return Oil	10 micron	10 micron	10 micron	10 micron

Hydraulic System (continued)	750J		750J LT		750J WT		750J LGP
Blade Type	PAT	<i>Outside dozer</i>	PAT	<i>Outside dozer</i>	PAT	<i>Outside dozer</i>	PAT
Control	T-bar hydraulic-pilot two-function joystick with push-button angle function	T-bar hydraulic-pilot two-function joystick	T-bar hydraulic-pilot two-function joystick with push-button angle function	T-bar hydraulic-pilot two-function joystick	T-bar hydraulic-pilot two-function joystick	T-bar hydraulic-pilot two-function joystick	T-bar hydraulic-pilot two-function joystick with push-button angle function
Cylinders	heat-treated, chrome-plated, polished cylinder rods with hardened steel (replaceable bushings) pivot pins	heat-treated, chrome-plated, polished cylinder rods with hardened steel (replaceable bushings) pivot pins	heat-treated, chrome-plated, polished cylinder rods with hardened steel (replaceable bushings) pivot pins	heat-treated, chrome-plated, polished cylinder rods with hardened steel (replaceable bushings) pivot pins	heat-treated, chrome-plated, polished cylinder rods with hardened steel (replaceable bushings) pivot pins	heat-treated, chrome-plated, polished cylinder rods with hardened steel (replaceable bushings) pivot pins	heat-treated, chrome-plated, polished cylinder rods with hardened steel (replaceable bushings) pivot pins
Cooling	convective oil sump	convective oil sump	convective oil sump	convective oil sump	convective oil sump	convective oil sump	convective oil sump

Capacities (U.S.)

Fuel Tank with Lockable Cap	98 gal. (371 L)	98 gal. (371 L)	98 gal. (371 L)	98 gal. (371 L)	98 gal. (371 L)	98 gal. (371 L)
Cooling System with Recovery Tank	5.7 gal. (21.5 L)	5.7 gal. (21.5 L)	5.7 gal. (21.5 L)	5.7 gal. (21.5 L)	5.7 gal. (21.5 L)	5.7 gal. (21.5 L)
Engine Lubrication, Including Filter	7.0 gal. (26.5 L)	7.0 gal. (26.5 L)	7.0 gal. (26.5 L)	7.0 gal. (26.5 L)	7.0 gal. (26.5 L)	7.0 gal. (26.5 L)
Final Drive (each)						
1st Reduction	2.1 gal. (8.0 L)	2.1 gal. (8.0 L)	2.1 gal. (8.0 L)	4.0 gal. (15.1 L)	4.0 gal. (15.1 L)	4.0 gal. (15.1 L)
2nd Reduction	4.0 gal. (15.1 L)	4.0 gal. (15.1 L)	4.0 gal. (15.1 L)	4.0 gal. (15.1 L)	4.0 gal. (15.1 L)	4.0 gal. (15.1 L)
Hydraulic System Reservoir	27.9 gal. (105.6 L)	27.9 gal. (105.6 L)	27.9 gal. (105.6 L)	27.9 gal. (105.6 L)	27.9 gal. (105.6 L)	27.9 gal. (105.6 L)
Hydrostatic System Reservoir	27.9 gal. (105.6 L)	27.9 gal. (105.6 L)	27.9 gal. (105.6 L)	27.9 gal. (105.6 L)	27.9 gal. (105.6 L)	27.9 gal. (105.6 L)

Undercarriage

Seven- or eight-roller track frame with front and rear track guides and sprocket guard; John Deere Dura-Trax™ features deep-heat-treated, sealed, and lubricated track links and through-hardened, sealed, and lubricated rollers for maximum wear resistance; sprockets are segmented; extreme-duty shoes are available (on some models) for severe applications

Blade Type	PAT	<i>Outside dozer</i>	PAT	<i>Outside dozer</i>	PAT
Chain	sealed and lubricated	sealed and lubricated	sealed and lubricated	sealed and lubricated	sealed and lubricated
Grouser Width	22 in. (560 mm)	22 in. (560 mm)	22 in. (560 mm)	34 in. (865 mm)	34 in. (865 mm)
Shoes (each side)	40	40	45	40	45
Ground Contact Area	4,488 sq. in. (28 955 cm ²)	4,488 sq. in. (28 955 cm ²)	5,324 sq. in. (34 348 cm ²)	6,936 sq. in. (44 748 cm ²)	8,228 sq. in. (53 084 cm ²)
Ground Pressure	7.24 psi (49.9 kPa)	7.53 psi (51.9 kPa)	6.45 psi (44.4 kPa)	5.24 psi (36.1 kPa)	4.45 psi (30.7 kPa)
Length of Track on Ground	102 in. (2592 mm)	102 in. (2592 mm)	121 in. (3075 mm)	102 in. (2592 mm)	121 in. (3075 mm)
Track Gauge, Standard	74 in. (1880 mm)	74 in. (1880 mm)	74 in. (1880 mm)	84 in. (2134 mm)	84 in. (2134 mm)
Oscillation at Front Roller	±4.3 in. (±110 mm)	±4.3 in. (±110 mm)	±5.3 in. (±135 mm)	±4.7 in. (±120 mm)	±5.0 in. (±127 mm)
Track Rollers (each side)	7	7	8	7	8
Track Pitch	7.5 in. (190.5 mm)	7.5 in. (190.5 mm)	7.5 in. (190.5 mm)	7.5 in. (190.5 mm)	7.5 in. (190.5 mm)

SAE Operating Weights

Base weights were computed for units with standard equipment, rollover protective structures, full fuel tanks, and 175-lb. (79 kg) operators.

Blade Type	PAT	<i>Outside dozer</i>	PAT	<i>Outside dozer</i>	PAT
Base Weight	32,510 lb. (14 744 kg)	33,790 lb. (15 324 kg)	34,320 lb. (15 565 kg)	36,350 lb. (16 485 kg)	36,650 lb. (16 621 kg)

Refer to the Attachment Guide or see your dealer for details regarding Mechanical Angle blades for the 750J LT.

Blade Weights

Includes push beams, trunnion mounts, straight end bits, C-frames, angle and tilt cylinders where applicable.

Blade Type	PAT	<i>Outside dozer</i>	PAT	<i>Outside dozer</i>	PAT
PAT	2,066 lb. (937 kg)	N/A	2,066 lb. (937 kg)	N/A	2,383 lb. (1081 kg)
Semi-U	N/A	2,564 lb. (1163 kg)	N/A	2,773 lb. (1258 kg)	N/A
Straight	N/A	N/A	N/A	2,672 lb. (1212 kg)	N/A

Refer to the Attachment Guide or see your dealer for details regarding Mechanical Angle blades for the 750J LT.

Blade Capacities

Blade Type	PAT	<i>Outside dozer</i>	PAT	<i>Outside dozer</i>	PAT
PAT	130 in. (3295 mm)	N/A	130 in. (3295 mm)	N/A	156 in. (3962 mm)
	4.23 cu. yd. (3.23 m ³)		4.23 cu. yd. (3.23 m ³)		4.98 cu. yd. (3.81 m ³)
Semi-U	N/A	128 in. (3251 mm)	N/A	148 in. (3759 mm)	N/A
		5.58 cu. yd. (4.27 m ³)		5.90 cu. yd. (4.51 m ³)	
Straight	N/A	N/A	N/A	150 in. (3810 mm)	N/A
				5.25 cu. yd. (4.01 m ³)	

Refer to the Attachment Guide or see your dealer for details regarding Mechanical Angle blades for the 750J LT.

Optional or Special Equipment	750J		750J LT	750J WT	750J LGP
Blade Type	<i>PAT</i>	<i>Outside dozer</i>	<i>PAT</i>	<i>Outside dozer</i>	<i>PAT</i>
Complete Push Beam Assemblies for Straight or Semi-U Blades, Root Rakes, etc.	N/A	3,242 lb. (1470 kg)	N/A	3,500 lb. (1588 kg)	N/A
Complete PAT Dozer C-Frame Assembly Including Cylinders	2,829 lb. (1283 kg)	N/A	2,905 lb. (1318 kg)	N/A	2,905 lb. (1318 kg)
Tracks – Dura-Trax™ Lubricated Chain with Split Master Link, Single-Bar Grousers, and Extended Life Undercarriage					
22-in. (560 mm) Moderate Duty	in base*	in base*	in base*	N/A	N/A
22-in. (560 mm) Extreme Duty	263.2 lb. (119.4 kg)	263.2 lb. (119.4 kg)	295.8 lb. (134.2 kg)	N/A	N/A
24-in. (610 mm) Moderate Duty	274.8 lb. (124.7 kg)	274.8 lb. (124.7 kg)	308.8 lb. (140.1 kg)	N/A	N/A
24-in. (610 mm) Extreme Duty	566 lb. (256.8 kg)	566 lb. (256.8 kg)	636.5 lb. (288.8 kg)	N/A	N/A
28-in. (710 mm) Moderate Duty	N/A	N/A	N/A	N/A	– 921.7 lb. (– 418.2 kg)
34-in. (865 mm) Moderate Duty	N/A	N/A	N/A	in base*	in base*
Cab with Pressurizer and Heater/ Air Conditioner	743 lb. (337 kg)	743 lb. (337 kg)	743 lb. (337 kg)	743 lb. (337 kg)	743 lb. (337 kg)
Heater (ROPS canopy)	85 lb. (39 kg)	85 lb. (39 kg)	85 lb. (39 kg)	85 lb. (39 kg)	85 lb. (39 kg)
Full-Length Rock Guard	383.9 lb. (174.2 kg)	383.9 lb. (174.2 kg)	340.3 lb. (154.4 kg)	383.9 lb. (174.2 kg)	340.3 lb. (154.4 kg)
Final Drive Seal Guard	155 lb. (70 kg)	155 lb. (70 kg)	155 lb. (70 kg)	155 lb. (70 kg)	155 lb. (70 kg)
Retrieval Hitch*	81 lb. (37 kg)	81 lb. (37 kg)	81 lb. (37 kg)	81 lb. (37 kg)	81 lb. (37 kg)
Drawbar, Extended Rigid	286 lb. (130 kg)	286 lb. (130 kg)	286 lb. (130 kg)	286 lb. (130 kg)	286 lb. (130 kg)
Heavy-Duty Grille	62 lb. (28 kg)	62 lb. (28 kg)	62 lb. (28 kg)	62 lb. (28 kg)	62 lb. (28 kg)
Noise-Reduction Package	75 lb. (34 kg)	75 lb. (34 kg)	75 lb. (34 kg)	75 lb. (34 kg)	75 lb. (34 kg)
Front and Door Screens (ROPS canopy)	186 lb. (84 kg)	186 lb. (84 kg)	186 lb. (84 kg)	186 lb. (84 kg)	186 lb. (84 kg)
Front and Door Screens (cab with air conditioner)	175 lb. (79 kg)	175 lb. (79 kg)	175 lb. (79 kg)	175 lb. (79 kg)	175 lb. (79 kg)
Rear Screen (ROPS canopy)	50 lb. (23 kg)	50 lb. (23 kg)	50 lb. (23 kg)	50 lb. (23 kg)	50 lb. (23 kg)
Rear Screen (cab with air conditioner)	75 lb. (34 kg)	75 lb. (34 kg)	75 lb. (34 kg)	75 lb. (34 kg)	75 lb. (34 kg)
Side Screens (ROPS canopy)	98 lb. (44 kg)	98 lb. (44 kg)	98 lb. (44 kg)	98 lb. (44 kg)	98 lb. (44 kg)
Side Screens (cab with air conditioner)	120 lb. (54 kg)	120 lb. (54 kg)	120 lb. (54 kg)	120 lb. (54 kg)	120 lb. (54 kg)
Condenser Guard (cab with air conditioner)	121 lb. (55 kg)	121 lb. (55 kg)	121 lb. (55 kg)	121 lb. (55 kg)	121 lb. (55 kg)
Limb Risers (ROPS canopy and cab)	575 lb. (261 kg)	575 lb. (261 kg)	575 lb. (261 kg)	575 lb. (261 kg)	575 lb. (261 kg)
Lift Cylinder Guards	<i>to be determined</i>	170 lb. (77 kg)	<i>to be determined</i>	170 lb. (77 kg)	<i>to be determined</i>
Blade Brush Guard	192 lb. (87 kg)	192 lb. (87 kg)	192 lb. (87 kg)	192 lb. (87 kg)	192 lb. (87 kg)
Tank Guard	712 lb. (323 kg)	712 lb. (323 kg)	<i>to be determined</i>	712 lb. (323 kg)	<i>to be determined</i>
Front Counterweight	550 lb. (249 kg)	550 lb. (249 kg)	550 lb. (249 kg)	550 lb. (249 kg)	550 lb. (249 kg)
Rear Counterweight	720 lb. (326 kg)	720 lb. (326 kg)	720 lb. (326 kg)	720 lb. (326 kg)	720 lb. (326 kg)

*Included in SAE operating weight.

Dimensions

	750J		750J LT	750J WT	750J LGP
Blade Type	<i>PAT</i>	<i>Outside dozer</i>	<i>PAT</i>	<i>Outside dozer</i>	<i>PAT</i>
A Overall Height to Roof	122 in. (3095 mm)	122 in. (3095 mm)	122 in. (3095 mm)	122 in. (3095 mm)	122 in. (3095 mm)
Overall Height to Exhaust Stack	119 in. (3020 mm)	119 in. (3020 mm)	119 in. (3020 mm)	119 in. (3020 mm)	119 in. (3020 mm)
B Tread Depth with Single-Bar Grouser					
Moderate Duty	2.2 in. (56 mm)	2.2 in. (56 mm)	2.2 in. (56 mm)	2.2 in. (56 mm)	2.2 in. (56 mm)
Extreme Duty	2.7 in. (68 mm)	2.7 in. (68 mm)	2.7 in. (68 mm)	2.7 in. (68 mm)	2.7 in. (68 mm)
C Ground Clearance with Grousers (excludes grouser height)	14 in. (356.9 mm)	14 in. (356.9 mm)	14 in. (356.9 mm)	14 in. (356.9 mm)	14 in. (356.9 mm)
D Blade Width	129.75 in. (3296 mm)	128 in. (3251 mm)	129.75 in. (3296 mm)	148 in. (3759 mm)	156 in. (3962 mm)
E Blade Height	47 in. (1194 mm)	48.8 in. (1240 mm)	47 in. (1194 mm)	46.1 in. (1170 mm)	46.1 in. (1170 mm)
F Blade Lift Height	38.5 in. (979 mm)	41.3 in. (1050 mm)	40.3 in. (1025 mm)	41.3 in. (1050 mm)	40.3 in. (1025 mm)
G Blade Digging Depth	24.4 in. (620 mm)	22.6 in. (575 mm)	25.6 in. (650 mm)	22.6 in. (575 mm)	25.6 in. (650 mm)
H Blade Tilt (uses tilt jack)	17.2 in. (437 mm)	28.4 in. (722 mm)	17.2 in. (437 mm)	25.7 in. (653 mm)	20.6 in. (524 mm)
I Overall Length with Blade*	196.5 in. (4990 mm)	205 in. (5205 mm)	208.5 in. (5300 mm)	205 in. (5205 mm)	208.5 in. (5300 mm)
J Overall Width with Blade Angled	118.9 in. (3020 mm)	N/A	118.9 in. (3020 mm)	N/A	142.9 in. (3631 mm)

*Optional extended drawbar adds 11 in. (279.5 mm).

Dimensions (continued)

	750J		750J LT		750J WT		750J LGP
K Blade Angle.....	23.5 degrees	N/A	23.5 degrees	N/A	N/A	N/A	23.5 degrees
L Cut Reach.....	4.3 in. (108 mm)	N/A	4.3 in. (108 mm)	N/A	N/A	N/A	3.3 in. (84 mm)
M Width Over Track.....	96 in. (2438 mm)	96 in. (2438 mm)	96 in. (2438 mm)	96 in. (2438 mm)	118 in. (2997 mm)	118 in. (2997 mm)	118 in. (2997 mm)
N Cast Reach.....	8.8 in. (224 mm)	N/A	8.8 in. (224 mm)	N/A	N/A	N/A	11.7 in. (297 mm)
O Cutting Edge Angle.....	55.2–60.1 degrees	50.5–60.0 degrees	55.2–60.1 degrees	50.5–60.0 degrees	50.5–60.0 degrees	50.5–60.0 degrees	55.2–60.1 degrees

