

ENGINE

John Deere engineered and manufactured 6-cylinder diesel engine. Replaceable wet-type cylinder liners help ensure superior heat dissipation, longer engine life. High-strength alloy heads include replaceable valve seat inserts. The forged steel, 7-main bearing crankshaft is statically and dynamically balanced for smooth operation. Cast aluminum pistons reduce rod bearing loads and provide vital heat transfer; pistons are sprayed with cooling oil for longer life.

Engine: John Deere 6068T

Rated power at 2100 rpm.....	140 SAE net hp (104 kW)
	148 SAE gross hp (110 kW)
Turbocharger.....	standard
Cylinders.....	6
Displacement.....	414 cu. in. (6.785 L)
Fuel consumption, typical.....	3.5 to 5.0 gal./hr. (13.5 to 19 L/h)
Maximum net torque at 1300 rpm.....	420 lb.-ft. (570 Nm)
Lubrication.....	pressure system with full-flow filters
Air cleaner.....	dry type with restriction indicator
Electrical system.....	24-volt with 40-amp alternator
Cooling fan.....	blower

TRANSMISSION

Automatic, dual-path, hydrostatic drive provides infinitely variable speeds to 6.7 mph (10.8 km/h). The transmission's load sensing feature automatically adjusts speed and power to match changing load conditions. Each track is powered by a variable displacement piston pump and motor combination. The speed and direction of each track can be individually controlled.

TRAVEL SPEEDS

Forward and reverseinfinite to 6.7 mph (0 to 10.8 km/h)

FINAL DRIVES

Double-reduction, planetary final drives transfer torque loads over three gear sets instead of one. The final drives are mounted independently of the track frames to isolate them from shock loads for increased life and reliability.

BRAKES

Hydrostatic (dynamic) braking stops the crawler when the transmission control lever is moved to neutral. Wet, multi-disk parking brakes are automatically applied when the engine stops, when the neutral lever is placed in start position, or can be operator-applied by engaging the center brake pedal.

STEERING

Steering is done hydrostatically by varying track speed and/or direction. Depressing a pedal slows or varies the speed of the track, all the way to a stop if desired. Continuing to depress the pedal will cause the track to reverse for counterrotation. Hydrostatic steering eliminates the need for steering clutches and steering brakes, as well as the need for cross-steering when working on steep slopes.

HYDRAULICS

System.....	open center
Pressure.....	2500 psi (17 237 kPa)
Pump.....	gear
Flow at 2100 rpm.....	54 gpm (204 L/min.)

TRACKS

6-roller, 93.5-in. (2375 mm) track frame with front and rear track guides and sprocket guard. Dura-Trax™ undercarriage features deep-heat-treated, sealed and lubricated track links and through-hardened sealed and lubricated rollers for maximum wear resistance.

Standard Track

Two-bar grouser width.....	17 in. (432 mm)
Track shoes, each side.....	36
Ground contact area.....	3173 sq. in. (20 472 cm ²)
Ground pressure.....	11.4 psi (78.6 kPa)
Length of track on ground.....	93.5 in. (2375 mm)
Track gauge.....	66 in. (1676 mm)
Carrier roller, each side.....	1
Adjustment.....	hydraulic
Ground clearance, minimum.....	15.3 in. (389 mm)

Wide Track

Two-bar grouser width.....	21 in. (533 mm)
Track shoes, each side.....	36
Ground contact area.....	3927 sq. in. (25 336 cm ²)
Ground pressure.....	9.5 psi (65.5 kPa)
Length of track on ground.....	93.5 in. (2375 mm)
Track gauge.....	70 in. (1778 mm)
Carrier roller, each side.....	1
Adjustment.....	hydraulic
Ground clearance, minimum.....	15.3 in. (389 mm)

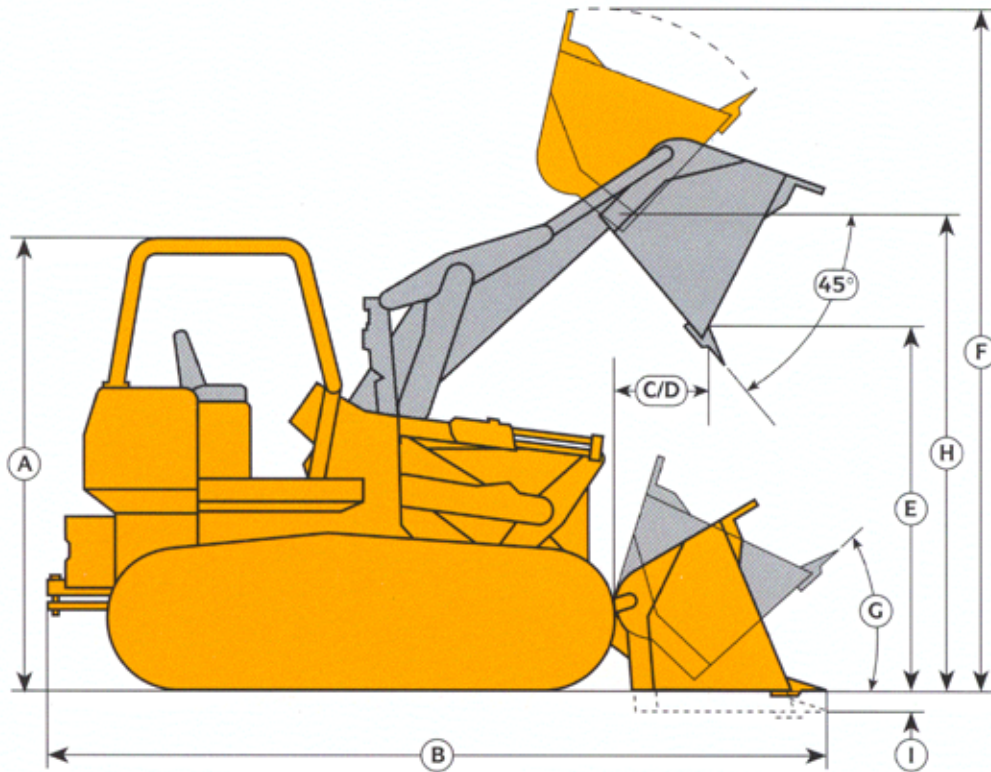
CAPACITIES

Fuel tank.....	73 gal. (276.3 L)
Cooling system.....	7 gal. (26.5 L)
Crankcase.....	18 qt. (17 L)
Crankcase, including filter.....	20 qt. (18.9 L)
Splitter drive.....	1.5 gal. (5.7 L)
Final drive each: 1st reduction.....	6.25 gal. (23.6 L)
2nd reduction.....	3.5 gal. (13.2 L)
Loader hydraulic system.....	37 gal. (140 L)
Hydrostatic drives.....	33 gal. (125 L)

OPERATING WEIGHTS

755B (with ROPS).....	SAE
Standard track.....	36,150 lb. (16 400 Kg)
Wide track.....	37,450 lb. (17 000 kg)

DIMENSIONS



Key:

Bucket Type

	General Purpose		
	Standard	Wide-Track	Multipurpose
Capacity, heaped, SAE	2.25 cu. yd. (1.7 m ³)	2.5 cu. yd. (1.9 m ³)	2 cu. yd. (1.5 m ³)
A. Overall height	123.7 in. (3142 mm)	123.7 in. (3142 mm)	123.7 in. (3142 mm)
B. Overall length	222 in. (5639 mm)	222.5 in. (5652 mm)	223 in. (5664 mm)
C. Reach at maximum height (45° discharge).....	47 in. (1194 mm)	47.5 in. (1206 mm)	47.4 in. (1204 mm)
D. Reach at 84 in. (2134 mm) clearance (45° discharge)...	67 in. (1702 mm)	67.5 in. (1715 mm)	65 in. (1651 mm)
E. Dump clearance, maximum height (45° discharge).....	112 in. (2845 mm)	111.5 in. (2832 mm)	111.6 in. (2835 mm)
F. Maximum operating height	194 in. (4928 mm)	195 in. (4953 mm)	190 in. (4826 mm)
G. Rollback angle			
Concrete level.....	38 degrees	36 degrees	36 degrees
Carry position.....	45 degrees	45 degrees	45 degrees
H. Height to hinge pin.....	143 in. (3632 mm)	143 in. (3632 mm)	143 in. (3632 mm)
I. Digging depth	4.2 in. (107 mm)	4.2 in. (107 mm)	4.2 in. (107 mm)

755B LOADER OPERATING INFORMATION

Bucket Type		General Purpose		
		Standard	Wide Track	Multipurpose
Capacity, heaped, SAE	cu. yd.	2.25	2.5	2.0
	m ³	1.7	1.9	1.5
Capacity, struck, SAE	cu. yd.	1.9	2.1	1.6
	m ³	1.5	1.6	1.2
Bucket width	in.	89.1	96.6	89.1
	mm	2263	2454	2263
Bucket weight, without teeth	lb.	2110	2150	3520
	kg	960	975	1597
Breakout force, SAE	lb.	27,500	27,150	27,000
	kN	122	121	120
Tipping load, (with drawbar, four counterweights, ROPS)	lb.	25,340	26,120	23,930
	kg	11 494	11 845	10 854
Raising time	sec.	5.86	5.86	5.86
Dumping time	sec.	1.27	1.27	1.27
Lowering time	sec.	3.23	3.23	3.23
Operating weight with ROPS canopy	lb.	36,150	37,450	37,560
	kg	16 400	17 000	17 030
Operating weight with ROPS cab	lb.	36,550	37,850	37,960
	kg	16 579	17 169	17 210

Adjustments to operating weights and tipping load for 2.25 cu. yd. (1.7 m³) bucket

ADJUSTMENTS TO OPERATING WEIGHTS				
Add (+) or deduct (-) lb. (kg) as indicated for loader equipped with:		Wide Track	Operating Weight	Tipping Load
Bucket teeth, bolt-on	lb.	+ 338	+ 296	- 385
	kg	+ 153	+ 134	- 175
Bucket teeth, weld-on, flush mount	lb.	+ 206	+ 180	- 234
	kg	+ 93	+ 82	- 106
Air conditioner	lb.	+ 109	+ 109	+ 30
	kg	+ 49	+ 49	+ 14
Ripper (without drawbar and four counterweights)	lb.	- 106	- 106	+ 200
	kg	- 48	- 48	+ 91
Counterweight (each)	lb.	± 500	± 500	± 865
	kg	± 227	± 227	± 392