

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.....	120 SAE net hp (90 kW)
.....	128 SAE gross hp (95 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	375 lb.-ft. (509 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 6.5 mph (10.5 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 reverse	infinite to 6.5 mph (0 to 10.5 km/h)
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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	2250 psi (15 514 kPa)
Pump	gear
Flow at 2100 rpm	54 gpm (204 L/min.)

TRACKS

6-roller, 90.8-in. (2306 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	15 in. (381 mm)
Track shoes, each side	40
Ground contact area	2724 sq. in. (17 575 cm ²)
Ground pressure	11.9 psi (82 kPa)
Length of track on ground	90.8 in. (2306 mm)
Track gauge	64 in. (1625 mm)
Carrier roller, each side	1
Adjustment	hydraulic
Ground clearance, minimum	14 in. (356 mm)
Wide Track	
Two-bar grouser width	21 in. (533 mm)
Track shoes, each side	40
Ground contact area	3814 sq. in. (24 608 cm ²)
Ground pressure	8.8 psi (60.7 kPa)
Length of track on ground	90.8 in. (2306 mm)
Track gauge	70 in. (1778 mm)
Carrier roller, each side	1
Adjustment	hydraulic
Ground clearance, minimum	14 in. (356 mm)

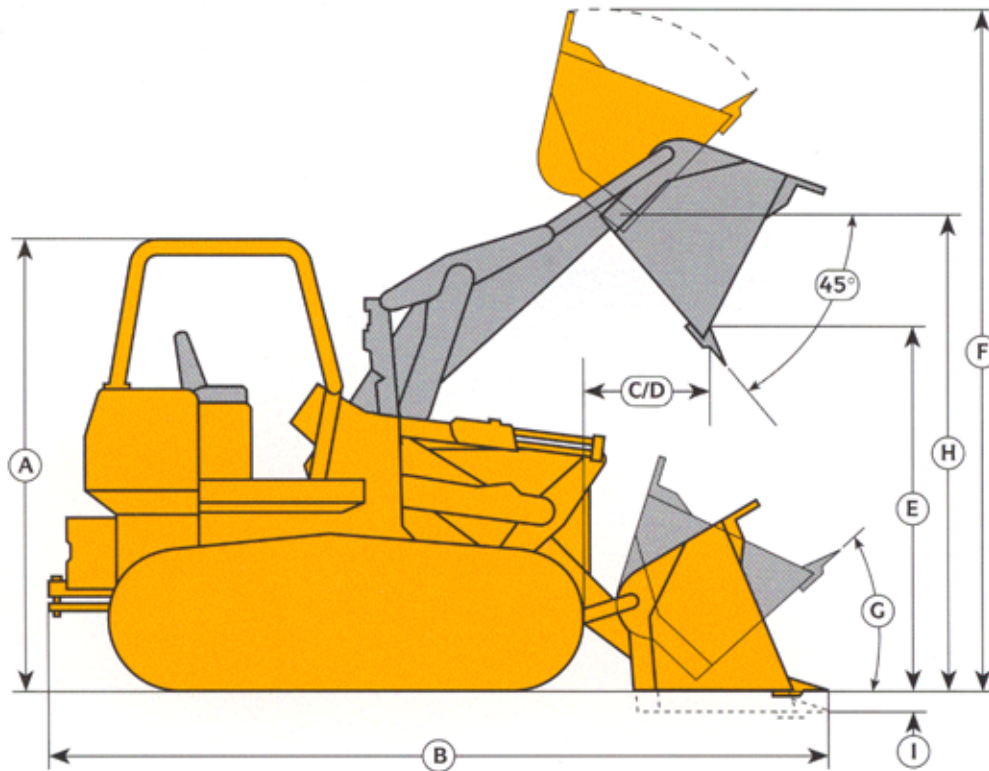
CAPACITIES

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	5.375 gal. (20.3 L)
2nd reduction	3.5 gal. (13.2 L)
Loader hydraulic system	37 gal. (140 L)
Hydrostatic drives	33 gal. (125 L)

OPERATING WEIGHTS

655B (with ROPS)	SAE
Standard track	32,400 lb. (14 695 kg)
Wide track	33,600 lb. (15 240 kg)

DIMENSIONS



Key:

Bucket Type

	General Purpose		
	Standard	Wide-Track	Multipurpose
Capacity, heaped, SAE	2 cu. yd. (1.5 m ³)	2 cu. yd. (1.5 m ³)	2 cu. yd. (1.5 m ³)
A. Overall height	121.5 in. (3086 mm)	121.5 in. (3086 mm)	121.5 in. (3086 mm)
B. Overall length	222.5 in. (5652 mm)	218.7 in. (5555 mm)	223 in. (5664 mm)
C. Reach at maximum height (45° discharge)	48 in. (1219 mm)	45.3 in. (1151 mm)	47.4 in. (1204 mm)
D. Reach at 84 in. (2134 mm) clearance (45° discharge)	66.5 in. (1689 mm)	63.8 in. (1621 mm)	65 in. (1651 mm)
E. Dump clearance, maximum height (45° discharge)	110.5 in. (2807 mm)	113.2 in. (2875 mm)	111.6 in. (2834 mm)
F. Maximum operating height	194 in. (4928 mm)	191.2 in. (4857 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	142 in. (3607 mm)	142 in. (3607 mm)	142 in. (3607 mm)
I. Digging depth	5.5 in. (140 mm)	5.5 in. (140 mm)	5.5 in. (140 mm)

655B LOADER OPERATING INFORMATION

Bucket Type		General Purpose		Multipurpose
		Standard	Wide Track	
Capacity, heaped, SAE	cu. yd. m ³	2.0 1.5	2.0 1.5	2.0 1.5
Capacity, struck, SAE	cu. yd. m ³	1.7 1.3	1.7 1.3	1.4 1.1
Bucket width	in. mm	84.7 2151	96.6 2454	88.5 2248
Bucket weight, without teeth	lb. kg	1810 820	1700 771	3520 1597
Breakout force, SAE	lb. kN	24,800 110	26,690 118	24,550 109
Tipping load, SAE, (with drawbar, four counterweights, ROPS)	lb. kg	19,100 8 660	19,925 9 036	17,400 7 890
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. kg	32,400 14 695	33,600 15 240	34,100 15 470
Operating weight with ROPS cab	lb. kg	32,800 14 878	34,000 15 423	34,500 15 649

Adjustments to operating weights and tipping load for 2.0 cu. yd. (1.5 m³) standard bucket

ADJUSTMENTS TO OPERATING WEIGHTS				
Add (+) or deduct (-) lb. (kg) as indicated for loaders with:		Wide Track	Loader Operating Weight	Tipping Load
Cab	lb. kg	+ 400 + 181	+ 400 + 181	+ 440 + 200
Bucket teeth, bolt-on	lb. kg	+ 338 + 153	+ 296 + 134	- 385 - 175
Air conditioner	lb. kg	+ 109 + 49	+ 109 + 49	+ 30 + 14
Ripper (without drawbar and four counterweights)	lb. kg	- 106 - 48	- 106 - 48	+ 200 + 91
Counterweight (each)	lb. kg	± 500 ± 227	± 500 ± 227	± 865 ± 392