ENGINE

John Deere engineered and manufactured 4-cylinder turbocharged diesel engine. Replaceable wet-type cylinder liners help ensure superior heat dissipation, longer engine life. High-strength alloy head includes replaceable valve seat inserts. High torque rise helps provide fast engine recovery when working in tough operating conditions.

Engine: John Deere 4045T w/altitude compensating turbocharger
Rated power at 2,100 rpm ..... 90 SAE net hp (67 kW)
555G DD ..... 95 SAE gross hp (71 kW)
555G TC ..... 99 SAE gross hp (74 kW)
Cylinders 4
Displacement ..... 276 cu. in. (4.524 L)
Fuel consumption, typical ..... 1.8 to 2.8 gal./hr. (6.8 to 10.6 L/h)
Maximum net torque at 1,300 rpm ..... 293 lb.-ft. (397 Nm)
Lubrication ..... pressure system with spin-on filter and cooler
Air cleaner ..... dual stage dry type with safety element and precleaner
Electrical system ..... 12 volt with 95-amp sealed alternator
Cooling fan ..... blower

TRANSMISSION

Full power shift, Dura-Shift with torque converter or direct drive transmission is designed and built by John Deere. Four speeds forward and reverse allow the operator to match speeds to all working conditions. Power shift design and decelerator allow smooth gear changes without stopping the machine or using a clutch.

MAXIMUM TRAVEL SPEEDS

	555G TC		555G DD	
	mph	(km/h)	mph	(km/h)
1st Forward	2.3	3.7	1.2	1.9
2nd Forward	3.3	5.3	2.1	3.4
3rd Forward	4.1	6.5	3.3	5.3
4th Forward	5.8	9.4	5.4	8.7
1st Reverse	2.5	4.0	1.4	2.3
2nd Reverse	3.6	5.8	2.3	3.7
3rd Reverse	4.4	7.1	3.6	5.8
4th Reverse	6.3	10.2	6.0	9.7

FINAL DRIVES

Large heavy-duty single reduction final drive assemblies help ensure long service life. To keep final drives from being adversely affected by shock loads, they are attached directly to the transverse case, and are isolated from the track frame.

STEERING/BRAKES

Oil-cooled and modulated steering system provides excellent durability and steering control. Multiple wet-disk steering clutches and wet-band steering brakes are pressure lubricated and provide long-term service life. They are located at the rear of the machine and can be serviced easily.

AUTOMATIC PARK BRAKE

This exclusive safety feature engages whenever the engine stops. The operator cannot drive the machine with the park brake engaged, which eliminates brake damage.

HYDRAULICS

System ..... open center
Control ..... single lever
Pressure, main relief ..... 2,600 psi (17 927 kPa)
Pump ..... gear
Flow at 2,100 rpm ..... 39 gpm (148 L/min.)
Filter, return oil ..... 10 micron, spin-on enclosed replaceable element

CYLINDERS

Cylinders: ground, heat-treated, chrome-plated, polished cylinder rods with hardened steel (replaceable bushings) pivot pins

	Bore		Stroke		Rod	
	in.	(mm)	in.	(mm)	in.	(mm)
Boom, two	4.53	115	31.93	811	2.48	63
Bucket, two	3.94	100	29.30	744	1.96	50

UNDERCARRIAGE

John Deere Dura-Trax™ undercarriage features large deep-heat-treated components for exceptional wear. Pins and bushings are sealed for life. Sealed and lubricated chain is available. Rollers and idlers are permanently lubricated. All 555G Loaders have track frame covers that substantially reduce dirt buildup and make cleanout easier.

Chain pitch ..... 6.73 in. (171.1 mm)
Bushing diameter, sealed ..... 2.12 in. (53.8 mm)
Bushing diameter, sealed and lubed ..... 2.24 in. (56.8 mm)
Link height ..... 3.78 in. (96.0 mm)
Track roller diameter ..... 7.19 in. (182.6 mm)
Carrier roller diameter ..... 6.3 in. (160.0 mm)

Standard Track
Two-bar grouser, closed-center ..... 16 in. (410 mm)
Track shoes, each side 36
Ground contact area ..... 2,522 sq. in. (16 270 cm^2)
Ground pressure, 555G TC ..... 8.35 psi (57.6 kPa)
555G DD ..... 8.27 psi (57.0 kPa)
Length of track on ground ..... 78.8 in. (2002 mm)
Track gauge ..... 61 in. (1550 mm)
Carrier roller 1
Track rollers 6
Adjustment ..... hydraulic with hinged dirt cover
Overall track width ..... 77 in. (1956 mm)

Wide Track
Two-bar grouser, closed-center ..... 24 in. (610 mm)
Track shoes, each side 36
Ground contact area ..... 3,782 sq. in. (20 440 cm^2)
Ground pressure, 555G TC ..... 5.81 psi (40 kPa)
555G DD ..... 5.75 psi (39.7 kPa)
Length of track on ground ..... 78.8 in. (2002 mm)
Track gauge ..... 69 in. (1753 mm)
Carrier roller 1
Track rollers 6
Adjustment ..... hydraulic with hinged dirt cover
Overall track width ..... 93 in. (2362 mm)

CAPACITIES

Fuel tank with lockable cap ..... 41 gal. (155.2 L)
Cooling system with coolant recovery tank ..... 18 qt. (17.0 L)
Engine oil including spin-on filter ..... 13 qt. (12.3 L)
555G TC Transmission including spin-on filter ..... 27 gal. (102 L)
555G DD Transmission Including spin-on filter ..... 27 gal. (102 L)
Final drive (each) ..... 7 qt. (6.6 L)
Hydraulic reservoir ..... 10 gal. (37.8 L)
Hydraulic system including spin-on filter ..... 19.7 gal. (74.5 L)

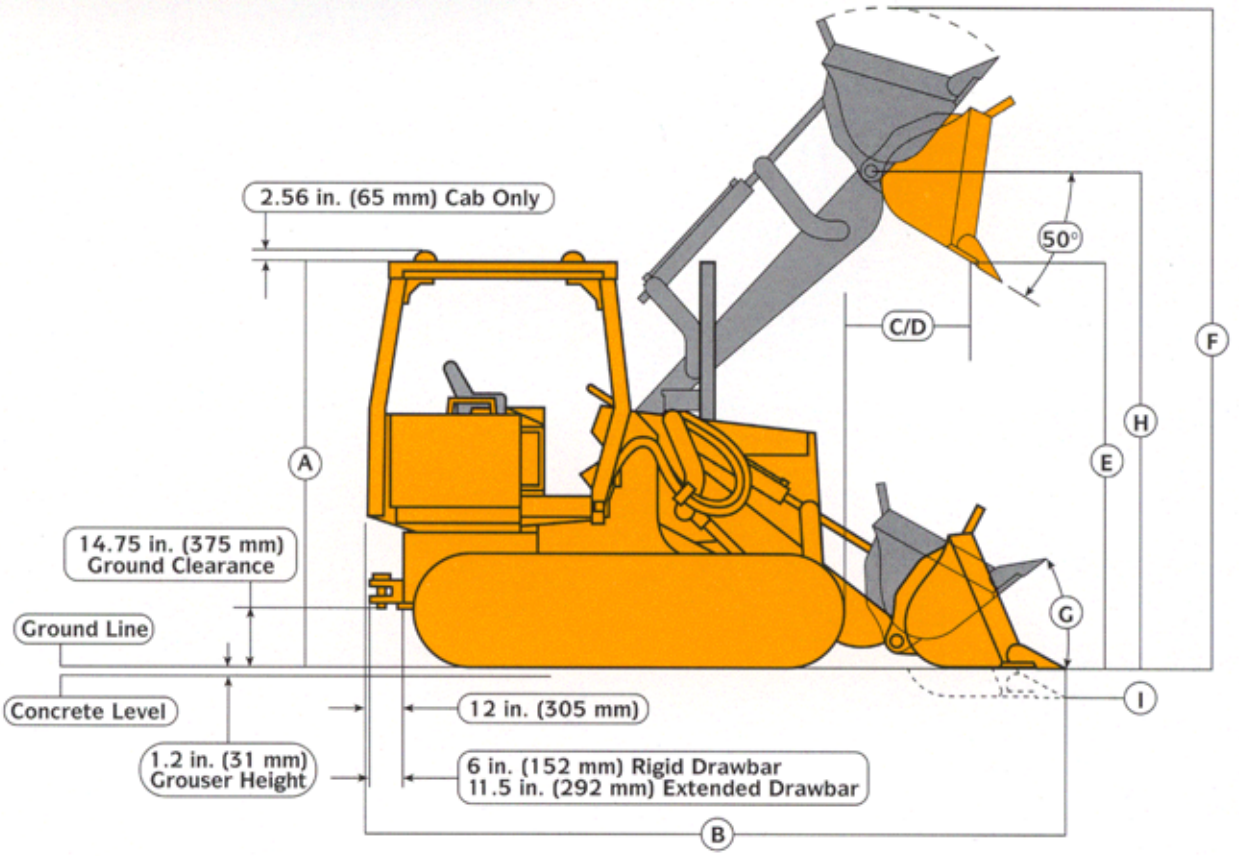
All capacities are for 555G TC unless otherwise noted. All power train and hydraulic systems allow 45 degrees maximum fore-aft, side-to-side operation without modification.

OPERATING WEIGHT

555G with standard equipment:

	555G TC	555G DD
Standard track	21,058 lb. (9552 kg)	20,858 lb. (9461 kg)
Wide track	21,958 lb. (9960 kg)	21,758 lb. (9869 kg)

DIMENSIONS



Key:

Bucket Type	**Standard**	**Wide-Track**	**Multipurpose**
Capacity	1.5 cu. yd. (1.15 m³)	1.5 cu. yd. (1.15 m³)	1.5 cu. yd. (1.15 m³)
A. Overall height			
Standard height ROPS	111.0 in. (2819 mm)	111.0 in. (2819 mm)	111.0 in. (2819 mm)
Low profile ROPS	106.3 in. (2699 mm)	106.3 in. (2699 mm)	106.3 in. (2699 mm)
Cab	112.0 in. (2845 mm)	112.0 in. (2845 mm)	112.0 in. (2845 mm)
B. Overall length	182.2 in. (4628 mm)	179.5 in. (4559 mm)	184.9 in. (4696 mm)
C. Reach at maximum height (45° discharge)	34.2 in. (868 mm)	30.7 in. (780 mm)	34.0 in. (863 mm)
D. Reach at 7 ft. (2.13 m) clearance (45° discharge)	51.1 in. (1298 mm)	48.1 in. (1221 mm)	48.2 in. (1224 mm)
E. Dump clearance, maximum height (45° discharge)	105.1 in. (2670 mm)	106.3 in. (2700 mm)	106.1 in. (2695 mm)
F. Maximum operating height	174.1 in. (4424 mm)	170.6 in. (4334 mm)	174.4 in. (4430 mm)
G. Rollback angle			
Concrete level	40 degrees	38 degrees	40 degrees
Carry position	47 degrees	46 degrees	44 degrees
H. Height to hinge pin	131.5 in. (3340 mm)	131.5 in. (3340 mm)	131.5 in. (3340 mm)
I. Digging depth	5.3 in. (135 mm)	5.3 in. (135 mm)	5.3 in. (135 mm)

Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on a unit with torque converter transmission, standard height rollover protective structure (ROPS), full fuel tank, 1.50 yd.³ (1.15 m³) general purpose bucket with eight teeth, sprocket counterweights, two 300 lb. (136 kg) rear counterweights, 16 in. (406 mm) track shoes with standard track, 175 lb. (79 kg) operator, and standard equipment.

555G LOADER OPERATING INFORMATION					
		General Purpose		Multipurpose	
Bucket Type		**Standard**	**Wide Track**	**Standard**	**Wide Track**
Capacity, heaped, SAE	cu. yd. m^3	1.50 1.15	1.50 1.15	1.50 1.15	1.50 1.15
Capacity, struck, SAE	cu. yd. m^3	1.25 0.96	1.25 0.96	1.20 0.92	1.20 0.92
Bucket width	in. m	84.9 2.15	97.4 2.47	84.9 2.15	84.9 2.15
Bucket weight, including eight bolt-on teeth	lb. kg	1,250 567	1,530 694	2,320 1,052	2,320 1,052
Breakout force, SAE	lb. kN	20,250 90	21,900 97	18,300 81.4	18,300 81.4
Tipping load, SAE	lb. kg	13,600 6168	14,400 6530	12,905 5855	12,905 5855
Raising time	sec.	6.5	6.5	6.6	6.6
Dumping time	sec.	1.6	1.6	1.6	1.6
Lowering time	sec.	3.8	3.8	3.4	3.4
SAE operating weight with standard height ROPS	lb. kg	21,058 9552	21,958 9960	22,765 10 326	22,765 10 326
SAE operating weight with ROPS cab	lb. kg	21,692 9839	22,588 10 246	23,399 10 614	23,399 10 614
Minimum recommended rear counter-weight or attachments	lb. kg	1,200 544	1,200 544	1,200 544	1,200 544
Sprocket counterweights	lb. kg	564 256 Optional	564 256 Standard Equipment	564 256 Optional	564 256 Standard Equipment

Adjustments to operating weights and tipping load for 1.5 cu. yd. (1.15 m^3) general purpose bucket

ADJUSTMENTS TO OPERATING WEIGHTS			
Add (+) or deduct (–) lb. (kg) as indicated for loaders with:		**Operating Weight**	**Tipping Load**
Cab	lb. kg	+ 632 + 286	+ 450 + 204
Low profile ROPS	lb. kg	+ 240 + 109	+ 177 + 80
Bucket teeth, bolt-on (eight)	lb. kg	– 143 – 65	+ 192 + 87
Radial ripper with three teeth (w/o drawbar or rear counterweights)	lb. kg	+ 742 + 336	+ 1,020 + 463
Parallelogram ripper with three teeth (w/o drawbar or rear counterweights)	lb. kg	+ 1,380 + 626	+ 1,898 + 861
Rear counterweights, five max., 300 lb. (136 kg) each	lb. kg	+ 300 + 136	+ 500 + 226