

3154G

Engine		3154G Road Builder	Optional engine for use in Canada, Australia, and New Zealand
		Base engine for use in U.S. and U.S. Territories	
Manufacturer and Model		John Deere PowerTech™ PSS 9.0 L	John Deere PowerTech™ Plus 9.0 L
Non-Road Emission Standards		EPA Final Tier 4/EU Stage IV	EPA Tier 3/EU Stage IIIA
Net Rated Power (ISO 9249)		186 kW (249 hp) at 1,900 rpm	186 kW (249 hp) at 1,900 rpm
Cylinders		6	6
Engine Displacement		9.0 L (549 cu. in.)	9.0 L (549 cu. in.)
Off-Level Capacity		70% (35 deg.)	70% (35 deg.)
Aspiration		Series turbocharged, air-to-air charge-air cooler	Turbocharged, air-to-air charge-air cooler
Oil Filter, Remote Mounted		Full-flow spin-on filter	Full-flow spin-on filter
Cooling			
Fan Drive		Cool-on-demand hydraulic-driven, suction-type fan remote-mounted drive w/ optional reversing fan	
Powertrain			
2-speed propel with automatic shift			
Maximum Travel Speed			
Low		2.7 km/h (1.7 mph)	
High		4.2 km/h (2.6 mph)	
Drawbar Pull		30 350 kgf (66,910 lbf)	
Hydraulics			
Open center, pilot operated			
Main Pumps		2 variable-displacement pumps	
Maximum Rated Flow x 2		236 L/m (62.3 gpm)	
System Operating Pressure			
Implement Circuits		34 300 kPa (4,975 psi)	
Power Boost		38 000 kPa (5,511 psi)	
Controls		Pilot levers; short-stroke, low-effort hydraulic pilot with shutoff lever	
Electrical			
		<i>EPA Final Tier 4/EU Stage IV</i>	<i>EPA Tier 3/EU Stage IIIA</i>
System Voltage		24 volt	24 volt
Alternator Rating		150 amp	130 amp
Lights			
Work		5 halogen: 3 cab front and 2 right-hand front log deflector standard / 14 LEDs optional	
Access (optional)		1 LED (rear right cab)	1 LED (rear right cab)
Service		5 LEDs (compartment and engine hood)	5 LEDs (compartment and engine hood)
Undercarriage			
Rollers (per side)			
Carrier		2	
Track		9	
Shoes, Double Grousers (per side)		48	
Undercarriage Pitch		216 mm (8.5 in.)	



Ground Pressure	3154G Road Builder	
700-mm (28 in.) Double-Grouser Shoes	2.69-m (8 ft. 10 in.) Undercarriage	2.92-m (9 ft. 7 in.) Undercarriage
	65.6 kPa (9.5 psi)	65.8 kPa (9.5 psi)

Swing Mechanism		
Swing Speed	8.7 rpm	
Swing Torque	120 000 Nm (88,507 lb.-ft.)	

Operator's Station		
Operator Height from Ground (eye level), Side-Entry Forestry Cab	3125 mm (10 ft. 3 in.)	

Serviceability

Refill Capacities		
Fuel Tank	1080.0 L (285.0 gal.)	
Cooling System	39.7 L (10.5 gal.)	
Diesel Exhaust Fluid (DEF) Tank (FT4)	43.6 L (11.5 gal.)	
Engine Crankcase (including filter)	27.0 L (28.5 qt.)	
Hydraulic Tank Oil	195.0 L (52.0 gal.)	

Operating Weights
 With full fuel tank, 79-kg (175 lb.) operator, side-entry forestry cab, 5538-kg (12,206 lb.) counterweight, 700-mm (28 in.) double-grouser shoes, FT4 engine, and 2.69-m (8 ft. 10 in.) undercarriage; no attachment included

SAE Operating Weight	EPA Final Tier 4/EU Stage IV	EPA Tier 3/EU Stage IIIA
	37 174 kg (81,954 lb.)	36 947 kg (81,454 lb.)

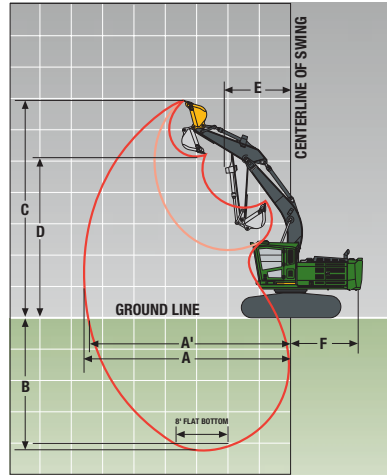
Optional Components (add weight)		
Rear-Entry Cab	671 kg (1,480 lb.)	671 kg (1,480 lb.)
Cab Forward	739 kg (1,630 lb.)	739 kg (1,630 lb.)
2.92-m (9 ft. 7 in.) Undercarriage	678 kg (1,494 lb.)	678 kg (1,494 lb.)

Operating Dimensions

With 700-mm (28 in.) shoes; 5538-kg (12,206 lb.) counterweight; 3.1-m (10 ft. 2 in.) arm; 1034-kg (2,279 lb.), 1.34-m³ (1.75 cu. yd.), 1065-mm (42 in.) bucket; full fuel tank; 79-kg (175 lb.) operator, and standard equipment

A Maximum Reach	10.80 m (35 ft. 5 in.)
A' Maximum Reach at Ground Level	10.54 m (34 ft. 7 in.)
B Maximum Digging Depth	5.99 m (19 ft. 8 in.)
C Maximum Cutting Height	11.86 m (38 ft. 11 in.)
D Maximum Dumping Height	8.79 m (28 ft. 10 in.)
E Minimum Swing Radius	2.69 m (8 ft. 10 in.)
F Tail Swing Radius	3.68 m (12 ft. 1 in.)

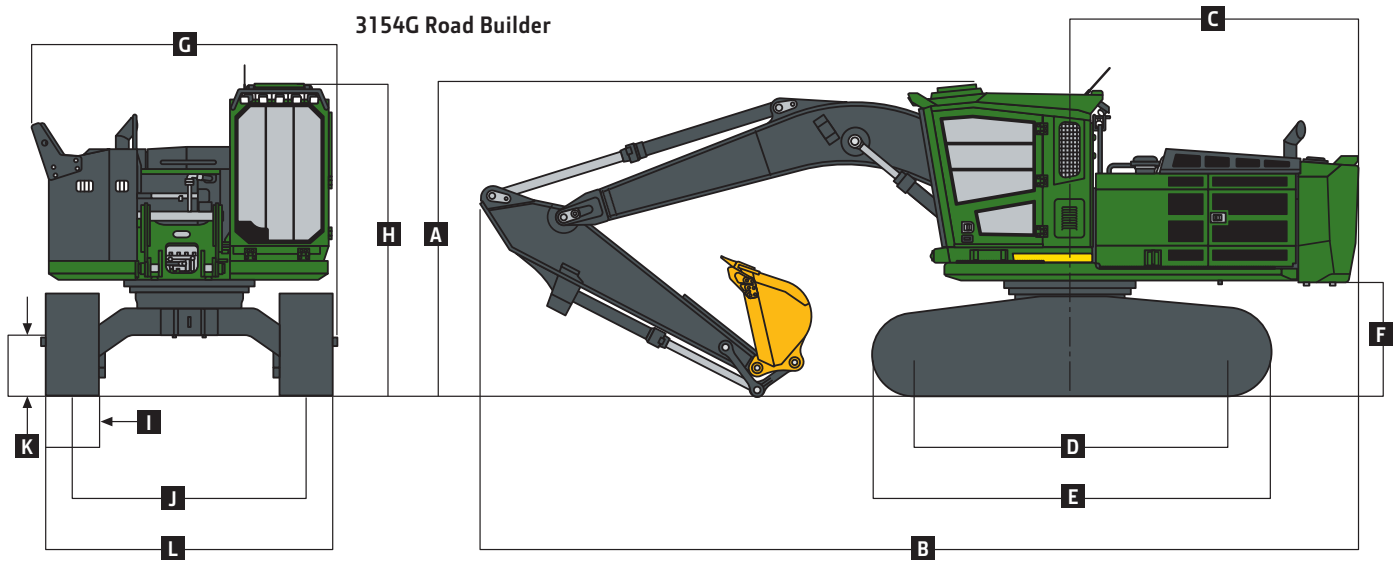
3154G Road Builder



Machine not exactly as shown. Illustrations for dimensioning purposes only.

3154G

Machine Dimensions	3154G Road Builder	
	2.69-m (8 ft. 10 in.) Undercarriage	2.92-m (9 ft. 7 in.) Undercarriage
A Height (side-entry cab)	3.84 m (12 ft. 7 in.)	3.86 m (12 ft. 8 in.)
B Overall Length	11.15 m (36 ft. 7 in.)	11.15 m (36 ft. 7 in.)
C Rear-End Length / Swing Radius	3.61 m (11 ft. 10 in.)	3.61 m (11 ft. 10 in.)
D Distance Between Idler / Sprocket Centerline	4.06 m (13 ft. 4 in.)	4.06 m (13 ft. 4 in.)
E Undercarriage Length	5.00 m (16 ft. 5 in.)	5.00 m (16 ft. 5 in.)
F Counterweight Clearance	1.47 m (4 ft. 10 in.)	1.50 m (4 ft. 11 in.)
G Upperstructure Width	3.48 m (11 ft. 5 in.)	3.48 m (11 ft. 5 in.)
H Cab Height (side-entry cab)	3.84 m (12 ft. 7 in.)	3.86 m (12 ft. 8 in.)
I Track Width with 700-mm (28 in.) Double-Grouser Shoes	0.71 m (28 in.)	0.71 m (28 in.)
J Center of Sprocket to Center of Sprocket	2.69 m (8 ft. 10 in.)	2.92 m (9 ft. 7 in.)
K Ground Clearance	0.76 m (30 in.)	0.79 m (31 in.)
L Undercarriage Width with 700-mm (28 in.) Double-Grouser Shoes	3.40 m (11 ft. 2 in.)	3.63 m (11 ft. 11 in.)



Attachment weight is not included when calculating the lift capacities.

Boldface type indicates hydraulic-limited capacities with power boost; **lightface** type indicates stability-limited capacities, in kg (lb.).
 Figures do not exceed 87 percent of hydraulic capacities or 75 percent of weight needed to tip machine.

Lift Capacity — 3154G Road Builder with 2.69-m (8 ft. 10 in.) undercarriage and 700-mm (28 in.) shoes; bare pin										
Load Point Height	3.1 m (10 ft.)		4.6 m (15 ft.)		6.1 m (20 ft.)		7.6 m (25 ft.)		9.1 m (30 ft.)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
7.6 m (25 ft.)					6930	6930				
					(15,260)	(15,260)				
6.1 m (20 ft.)			8280	8280	7350	7350	6850	6850		
			(18,250)	(18,250)	(16,200)	(16,200)	(15,090)	(15,090)		
4.6 m (15 ft.)	15 500	15 500	10 320	10 320	8280	8280	7230	7230		
	(34,150)	(34,150)	(22,740)	(22,740)	(18,240)	(18,240)	(15,940)	(15,940)		
3.1 m (10 ft.)			12 760	12 760	9410	9410	7780	7780	6860	5980
			(28,110)	(28,110)	(20,740)	(20,740)	(17,140)	(17,140)	(15,120)	(13,190)
1.5 m (5 ft.)			14 410	14 410	10 360	10 260	8270	7560	6990	5890
			(31,760)	(31,760)	(22,830)	(22,600)	(18,230)	(16,670)	(15,410)	(12,980)
Ground Line	21 140	21 140	14 790	14 790	10 810	10 000	8510	7410		
	(46,600)	(46,600)	(32,600)	(32,600)	(23,830)	(22,040)	(18,750)	(16,340)		
-1.5 m (-5 ft.)	19 670	19 670	14 180	14 180	10 620	9910	8260	7370		
	(43,360)	(43,360)	(31,260)	(31,260)	(23,410)	(21,850)	(18,210)	(16,240)		
-3.1 m (-10 ft.)	16 960	16 960	12 610	12 610	9570	9570				
	(37,370)	(37,370)	(27,800)	(27,800)	(21,090)	(21,090)				
Lift Capacity — 3154G Road Builder with 2.92-m (9 ft. 7 in.) undercarriage and 700-mm (28 in.) shoes; bare pin										
Load Point Height	3.1 m (10 ft.)		4.6 m (15 ft.)		6.1 m (20 ft.)		7.6 m (25 ft.)		9.1 m (30 ft.)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
7.6 m (25 ft.)					6930	6930				
					(15,260)	(15,260)				
6.1 m (20 ft.)			8280	8280	7350	7350	6850	6850		
			(18,250)	(18,250)	(16,200)	(16,200)	(15,090)	(15,090)		
4.6 m (15 ft.)	15 500	15 500	10 320	10 320	8280	8280	7230	7230		
	(34,150)	(34,150)	(22,740)	(22,740)	(18,240)	(18,240)	(15,940)	(15,940)		
3.1 m (10 ft.)			12 760	12 760	9410	9410	7780	7780	6860	6510
			(28,110)	(28,110)	(20,740)	(20,740)	(17,140)	(17,140)	(15,120)	(14,350)
1.5 m (5 ft.)			14 410	14 410	10 360	10 360	8270	8250	6990	6420
			(31,760)	(31,760)	(22,830)	(22,830)	(18,230)	(18,190)	(15,410)	(14,140)
Ground Line	21 140	21 140	14 790	14 790	10 810	10 810	8510	8100		
	(46,600)	(46,600)	(32,600)	(32,600)	(23,830)	(23,830)	(18,750)	(17,850)		
-1.5 m (-5 ft.)	19 670	19 670	14 180	14 180	10 620	10 620	8260	8050		
	(43,360)	(43,360)	(31,260)	(31,260)	(23,410)	(23,410)	(18,210)	(17,750)		
-3.1 m (-10 ft.)	16 960	16 960	12 610	12 610	9570	9570				
	(37,370)	(37,370)	(27,800)	(27,800)	(21,090)	(21,090)				