

## 2154G



Engine	2154G Road Builder / Processor	
	U.S. and U.S. Territories	Rest of World (ROW)
Manufacturer and Model	John Deere PowerTech™ PVS 6.8 L	John Deere PowerTech™ Plus 6.8 L
Non-Road Emission Standards	EPA Final Tier 4/EU Stage IV	EPA Tier 3/EU Stage IIIA
Net Rated Power (ISO 9249)	122 kW (164 hp) at 2,000 rpm	122 kW (164 hp) at 2,000 rpm
Cylinders	6	6
Engine Displacement	6.8 L (415 cu. in.)	6.8 L (415 cu. in.)
Off-Level Capacity	70% (35 deg.)	70% (35 deg.)
Aspiration	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
<b>Cooling</b>		
Fan Drive	Cool-on-demand hydraulic-driven, suction-type fan remote-mounted drive w/ optional reversing fan	
<b>Powertrain</b>		
2-speed propel with automatic shift		
Undercarriage	<i>Heavy Duty (HD)</i>	<i>Extreme Duty (XD)</i>
Maximum Travel Speed		
Low	3.2 km/h (2.0 mph)	2.9 km/h (1.8 mph)
High	4.8 km/h (3.0 mph)	4.7 km/h (2.9 mph)
Drawbar Pull	22 634 kgf (49,900 lbf)	25 435 kgf (56,075 lbf)
<b>Hydraulics</b>		
Open center, pilot operated		
<b>Main Pumps</b>	2 variable-displacement pumps	
Maximum Rated Flow x 2	236 L/m (62.3 gpm)	
<b>System Operating Pressure</b>		
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	
<b>Electrical</b>		
	<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)	
Service	5 LEDs (compartment and engine hood)	5 LEDs (compartment and engine hood)
<b>Undercarriage</b>		
Rollers (per side)		
Carrier	2	
Track	8	
Shoes Double Grousers (per side)		
Standard Duty (SD)	49	
HD	46	
XD	45	
Undercarriage Pitch		
SD	190 mm (7.5 in.)	
HD	203 mm (8.0 in.)	
XD	216 mm (8.5 in.)	



Ground Pressure	2154G Road Builder			2154G Processor		
Undercarriage	2.62-m (8 ft. 7 in.) SD/HD	2.62-m (8 ft. 7 in.) XD	2.79-m (9 ft. 2 in.)	2.62-m (8 ft. 7 in.) SD/HD	2.62-m (8 ft. 7 in.) XD	2.79-m (9 ft. 2 in.)
700-mm (28 in.) Double-Grouser Shoes	61.5 kPa (8.92 psi)*	57.9 kPa (8.40 psi)	53.1 kPa (7.70 psi)	62.3 kPa (9.04 psi)*	58.5 kPa (8.48 psi)	53.7 kPa (7.79 psi)

\*600-mm (24 in.) double-grouser shoes.

Swing Mechanism	2154G Road Builder / Processor	
Swing Speed	12.6 rpm	
Swing Torque	74 376 Nm (54,857 lb.-ft.)	

Operator's Station	
Operator Height from Ground (eye level)	
Side-Entry Forestry Cab	2998 mm (9 ft. 11 in.)
Rear-Entry Log Loader Cab	4345 mm (14 ft. 4 in.)

Serviceability	
<b>Refill Capacities</b>	
Fuel Tank	800.0 L (211 gal.)
Cooling System	30.5 L (8.1 gal.)
Diesel Exhaust Fluid (DEF) Tank (FT4)	42.4 L (11.2 gal.)
Engine Crankcase (including filter)	20.0 L (20.6 qt.)
Hydraulic Tank Oil	136.0 L (36.0 gal.)

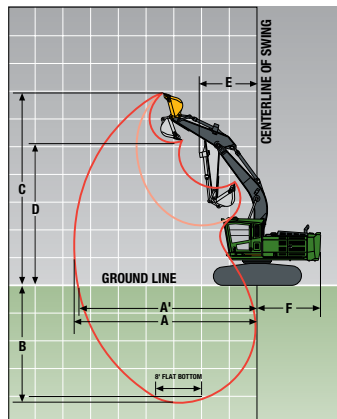
Operating Weights	2154G Road Builder		2154G Processor	
With full fuel tank, 79-kg (175 lb.) operator, side-entry forestry cab, 4187-kg (9,228 lb.) counterweight, 600-mm (24 in.) double-grouser shoes, FT4 engine, and 2.62-m (8 ft. 7 in.) HD undercarriage; no attachment included				
SAE Operating Weight	EPA Final Tier 4/EU Stage IV 28 000 kg (61,730 lb.)	EPA Tier 3/EU Stage IIIA 27 773 kg (61,230 lb.)	EPA Final Tier 4/EU Stage IV 28 352 kg (62,505 lb.)	EPA Tier 3/EU Stage IIIA 28 125 kg (62,005 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.)	
Undercarriage					
2.62-m (8 ft. 7 in.) XD		3240 kg (7,143 lb.)		3240 kg (7,143 lb.)	
2.79-m (9 ft. 2 in.)		106 kg (233 lb.)		106 kg (233 lb.)	

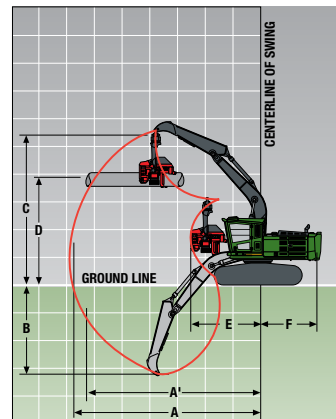
Operating Dimensions			
With 600-mm (24 in.) shoes, 4187-kg (9,228 lb.) counterweight, full fuel tank, 79-kg (175 lb.) operator, and standard equipment			
		2.9-m (9 ft. 6 in.) Arm; 830-kg (1,830 lb.), 0.91-m <sup>3</sup> (1.19 cu. yd.), 1065-mm (42 in.) Bucket	
		3.32-m (10 ft. 10 in.) Processor Arm	
<b>A</b> Maximum Reach		9.86 m (32 ft. 4 in.)	8.74 m (28 ft. 8 in.)
<b>A'</b> Maximum Reach at Ground Level		9.63 m (31 ft. 7 in.)	8.46 m (27 ft. 9 in.)
<b>B</b> Maximum Working Depth		5.64 m (18 ft. 6 in.)	4.72 m (15 ft. 6 in.)
<b>C</b> Maximum Working Height		11.05 m (36 ft. 3 in.)	9.68 m (31 ft. 9 in.)
<b>D</b> Maximum Log-Level Height*		8.33 m (27 ft. 4 in.)	7.26 m (23 ft. 10 in.)
<b>E</b> Minimum Swing Radius		2.36 m (7 ft. 9 in.)	2.74 m (9 ft. 0 in.)
<b>F</b> Tail Swing Radius		3.12 m (10 ft. 3 in.)	3.12 m (10 ft. 3 in.)

\*Attachment dependent.

2154G Road Builder



2154G Processor

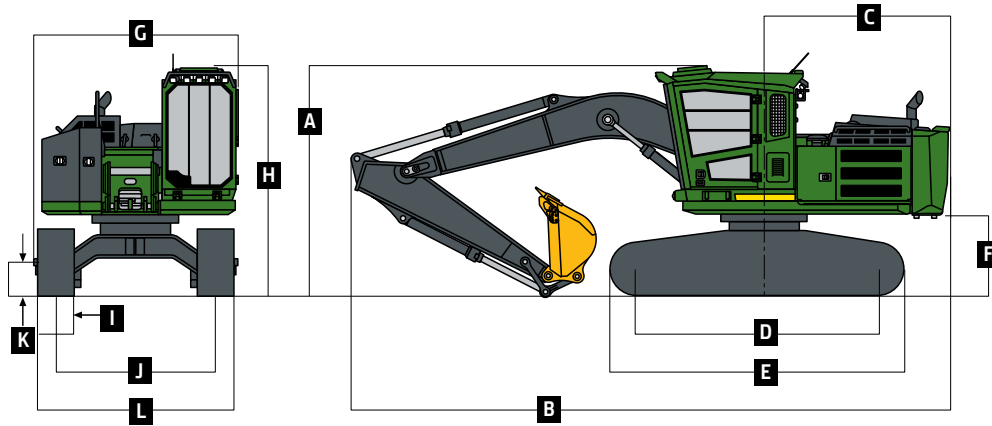


Machine not exactly as shown. Illustrations for dimensioning purposes only.

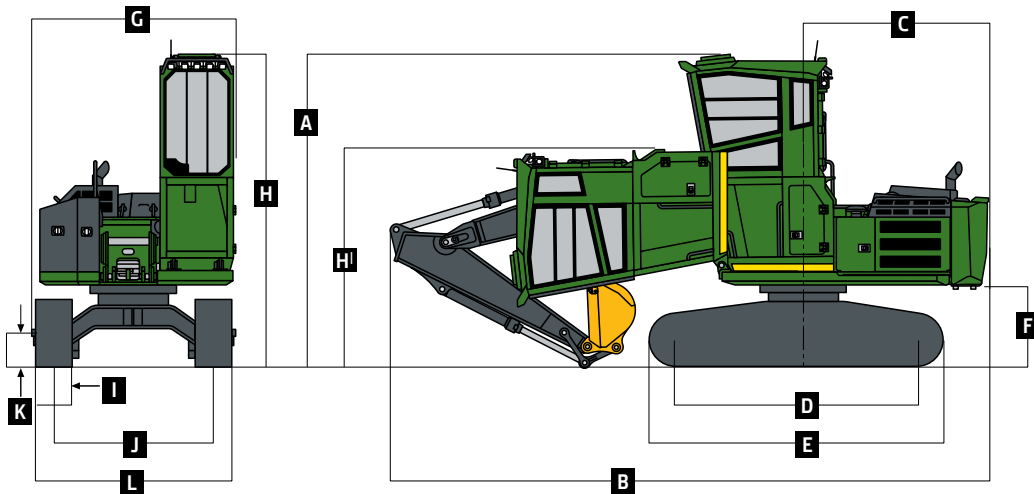
# 2154G

Machine Dimensions	2154G Road Builder		2154G Processor	
Undercarriage	2.62-m (8 ft. 7 in.) SD/HD	2.79-m (9 ft. 2 in.)	2.62-m (8 ft. 7 in.) SD/HD	2.79-m (9 ft. 2 in.)
<b>A</b> Height (side-entry cab)	3.73 m (12 ft. 3 in.)	3.78 m (12 ft. 5 in.)	3.73 m (12 ft. 3 in.)	3.78 m (12 ft. 5 in.)
<b>B</b> Overall Length	9.83 m (32 ft. 3 in.)	9.83 m (32 ft. 3 in.)	9.86 m (32 ft. 4 in.)	9.86 m (32 ft. 4 in.)
<b>C</b> Rear-End Length / Swing Radius	3.10 m (10 ft. 2 in.)	3.10 m (10 ft. 2 in.)	3.10 m (10 ft. 2 in.)	3.10 m (10 ft. 2 in.)
<b>D</b> Distance Between Idler / Sprocket Centerline	3.66 m (12 ft. 0 in.)	3.66 m (12 ft. 0 in.)	3.66 m (12 ft. 0 in.)	3.66 m (12 ft. 0 in.)
<b>E</b> Undercarriage Length	4.45 m (14 ft. 7 in.)	4.45 m (14 ft. 7 in.)	4.45 m (14 ft. 7 in.)	4.45 m (14 ft. 7 in.)
<b>F</b> Counterweight Clearance	1.37 m (4 ft. 6 in.)	1.42 m (4 ft. 8 in.)	1.37 m (4 ft. 6 in.)	1.42 m (4 ft. 8 in.)
<b>G</b> Upperstructure Width	3.23 m (10 ft. 7 in.)	3.23 m (10 ft. 7 in.)	3.23 m (10 ft. 7 in.)	3.23 m (10 ft. 7 in.)
<b>H</b> Cab Height (side-entry cab)	3.73 m (12 ft. 3 in.)	3.78 m (12 ft. 5 in.)	3.73 m (12 ft. 3 in.)	3.78 m (12 ft. 5 in.)
<b>H<sup>i</sup></b> Tilted Cab Height (rear-entry cab)	3.58 m (11 ft. 9 in.)	3.63 m (11 ft. 11 in.)	3.58 m (11 ft. 9 in.)	3.63 m (11 ft. 11 in.)
<b>I</b> Track Shoe Width	0.61 m (24 in.) w/ 600-mm (24 in.) shoes	0.71 m (28 in.) w/ 700-mm (28 in.) shoes	0.61 m (24 in.) w/ 600-mm (24 in.) shoes	0.71 m (28 in.) w/ 700-mm (28 in.) shoes
<b>J</b> Center of Sprocket to Center of Sprocket	2.62 m (8 ft. 7 in.)	2.79 m (9 ft. 2 in.)	2.62 m (8 ft. 7 in.)	2.79 m (9 ft. 2 in.)
<b>K</b> Ground Clearance	0.71 m (28 in.)	0.76 m (30 in.)	0.71 m (28 in.)	0.76 m (30 in.)
<b>L</b> Undercarriage Width	3.30 m (10 ft. 10 in.) w/ 600-mm (24 in.) shoes	3.51 m (11 ft. 6 in.) w/ 700-mm (28 in.) shoes	3.30 m (10 ft. 10 in.) w/ 600-mm (24 in.) shoes	3.51 m (11 ft. 6 in.) w/ 700-mm (28 in.) shoes

2154G Road Builder – Low Cab

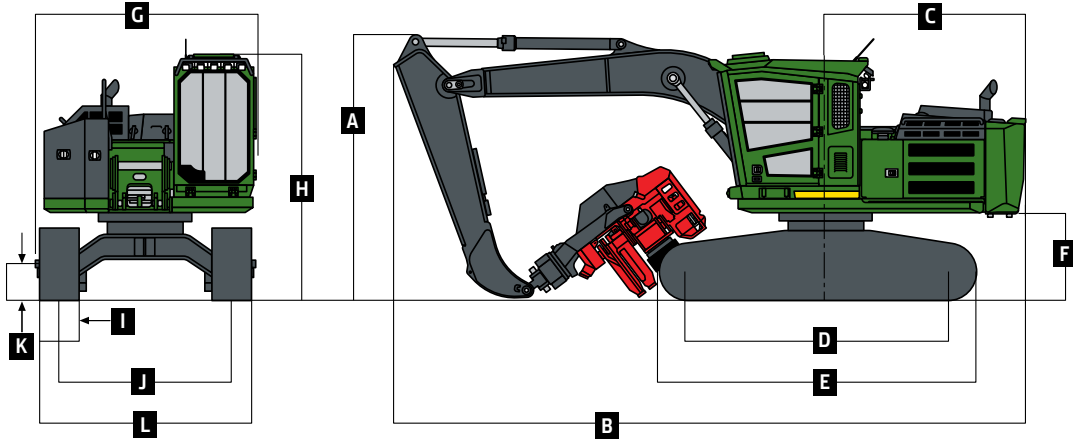


2154G Road Builder – High Cab

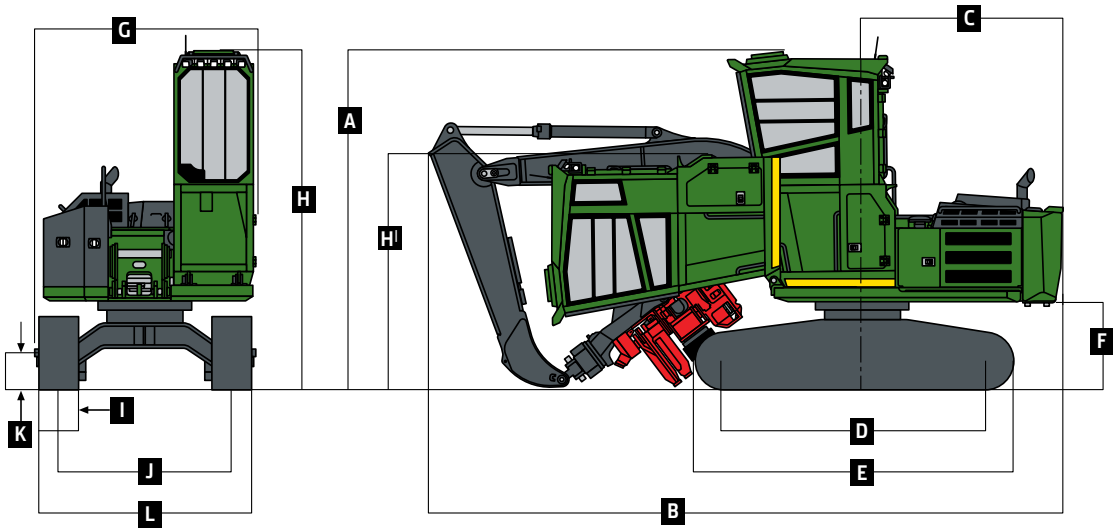


Machine Dimensions (continued)

2154G Processor – Low Cab



2154G Processor – High Cab



**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 — 2154G Road Builder with 2.79-m (9 ft. 2 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.)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
7.6 m (25 ft.)			<b>5010</b>	<b>5010</b>	<b>5070</b>	<b>5070</b>		
			(11,040)	(11,040)	(11,170)	(11,170)		
6.1 m (20 ft.)			<b>5420</b>	<b>5420</b>	<b>5070</b>	<b>5070</b>		
			(11,950)	(11,950)	(11,160)	(11,160)		
4.6 m (15 ft.)	<b>9030</b>	<b>9030</b>	<b>6620</b>	<b>6620</b>	<b>5570</b>	<b>5570</b>	<b>5050</b>	<b>5050</b>
	(19,910)	(19,910)	(14,590)	(14,590)	(12,280)	(12,280)	(11,130)	(11,130)
3.1 m (10 ft.)			<b>8260</b>	<b>8260</b>	<b>6310</b>	<b>6310</b>	<b>5350</b>	<b>5350</b>
			(18,210)	(18,210)	(13,900)	(13,900)	(11,790)	(11,790)
1.5 m (5 ft.)			<b>9580</b>	<b>9580</b>	<b>6980</b>	<b>6980</b>	<b>5650</b>	<b>5650</b>
			(21,110)	(21,110)	(15,380)	(15,380)	(12,450)	(12,450)
Ground Line	<b>15 040</b>	<b>15 040</b>	<b>10 040</b>	<b>10 040</b>	<b>7330</b>	<b>7330</b>	<b>5770</b>	<b>5610</b>
	(33,160)	(33,160)	(22,140)	(22,140)	(16,160)	(16,160)	(12,710)	(12,370)
-1.5 m (-5 ft.)	<b>13 840</b>	<b>13 840</b>	<b>9700</b>	<b>9700</b>	<b>7180</b>	<b>7180</b>	<b>5420</b>	<b>5420</b>
	(30,510)	(30,510)	(21,380)	(21,380)	(15,830)	(15,830)	(11,940)	(11,940)
-3.1 m (-10 ft.)	<b>11 750</b>	<b>11 750</b>	<b>8520</b>	<b>8520</b>	<b>6260</b>	<b>6260</b>		
	(25,900)	(25,900)	(18,780)	(18,780)	(13,790)	(13,790)		

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Lift Capacity — 2154G Processor with 2.79-m (9 ft. 2 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.)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
7.6 m (25 ft.)					<b>4680</b> (10,320)	<b>4680</b> (10,320)		
6.1 m (20 ft.)			4920 (10,850)	4920 (10,850)	4780 (10,530)	4780 (10,530)	4730 (10,430)	4730 (10,430)
4.6 m (15 ft.)	7790 (17,180)	7790 (17,180)	6140 (13,530)	6140 (13,530)	5330 (11,750)	5330 (11,750)	4900 (10,790)	4900 (10,790)
3.1 m (10 ft.)	12 610 (27,800)	12 610 (27,800)	7880 (17,370)	7880 (17,370)	6130 (13,520)	6130 (13,520)	5260 (11,590)	5260 (11,590)
1.5 m (5 ft.)	15 740 (34,680)	15 740 (34,680)	9430 (20,780)	9430 (20,780)	6920 (15,240)	6920 (15,240)	5640 (12,430)	5440 (11,990)
Ground Line	15 860 (34,950)	15 860 (34,950)	10 180 (22,430)	10 180 (22,430)	7400 (16,320)	7230 (15,930)	5860 (12,920)	5330 (11,750)
-1.5 m (-5 ft.)	14 880 (32,800)	14 880 (32,800)	10 080 (22,220)	10 080 (22,220)	7420 (16,360)	7130 (15,720)	5730 (12,630)	5290 (11,660)
-3.1 m (-10 ft.)	13 010 (28,680)	13 010 (28,680)	9160 (20,190)	9160 (20,190)	6770 (14,920)	6770 (14,920)		