

2156G

Engine	2156G Valve-in-Head (VIH) Log Loader / Live-Heel Log Loader	
	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
Cooling	Cool-on-demand hydraulic-driven, suction-type fan remote-mounted drive w/ optional reversing fan	
Powertrain	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)
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)	
Service	5 LEDs (compartment and engine hood)	5 LEDs (compartment and engine hood)
Undercarriage		
Rollers (per side)		
Carrier	2	
Track	8	
Shoes, Double Grousers (per side)		
HD	46	
XD	45	
Undercarriage Pitch		
HD	203 mm (8.0 in.)	
XD	216 mm (8.5 in.)	



Ground Pressure	2156G VIH Log Loader			2156G Live-Heel Log Loader		
Undercarriage	2.62-m (8 ft. 7 in.) HD	2.62-m (8 ft. 7 in.) XD	2.79-m (9 ft. 2 in.)	2.62-m (8 ft. 7 in.) HD	2.62-m (8 ft. 7 in.) XD	2.79-m (9 ft. 2 in.)
700-mm (28 in.) Double-Grouser Shoes	67.6 kPa (9.80 psi)*	62.9 kPa (9.12 psi)	58.2 kPa (8.44 psi)	68.2 kPa (9.89 psi)*	50.1 kPa (7.27 psi)†	58.7 kPa (8.51 psi)

*600-mm (24 in.) double-grouser shoes. / †900-mm double-grouser shoes.

Swing Mechanism	2156G VIH Log Loader / Live-Heel Log Loader	
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	
Refill Capacities	
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	2156G VIH Log Loader		2156G Live-Heel Log Loader	
With full fuel tank, 79-kg (175 lb.) operator, rear-entry forestry cab, 4923-kg (10,850 lb.) counterweight, 700-mm (28 in.) double-grouser shoes, FT4 engine, and 2.79-m (9 ft. 2 in.) undercarriage; no attachment included				
	EPA Final Tier 4/EU Stage IV	EPA Tier 3/EU Stage IIIA	EPA Final Tier 4/EU Stage IV	EPA Tier 3/EU Stage IIIA
SAE Operating Weight	30 882 kg (68,083 lb.)	30 655 kg (67,583 lb.)	31 169 kg (68,175 lb.)	30 942 kg (68,215 lb.)

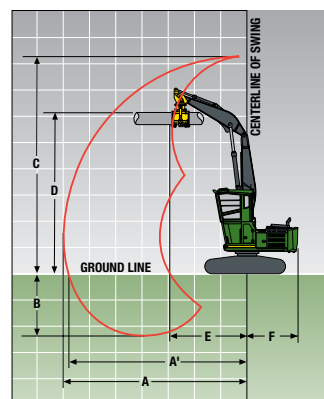
Optional Components (add weight)		
Side-Entry Cab	-671 kg (-1,480 lb.)	-671 kg (-1,480 lb.)
Rear-Entry Cab Forward	68 kg (150 lb.)	68 kg (150 lb.)
Undercarriage		
2.62-m (8 ft. 7 in.) HD	-106 kg (-233 lb.)	-106 kg (-233 lb.)
2.62-m (8 ft. 7 in.) XD	3134 kg (6,910 lb.)	3134 kg (6,910 lb.)

Operating Dimensions		
With 700-mm (28 in.) shoes, 4923-kg (10,850 lb.) counterweight, full fuel tank, 79-kg (175 lb.) operator, and standard equipment		
	4.32-m (14 ft. 2 in.) VIH Log Loader Arm	4.04-m (13 ft. 3 in.) Live-Heel Log Loader Arm
A Maximum Reach	9.93 m (32 ft. 7 in.)	10.97 m (36 ft. 0 in.)
A † Maximum Reach at Ground Level	9.70 m (31 ft. 10 in.)	10.77 m (35 ft. 4 in.)
B Maximum Working Depth	3.30 m (10 ft. 10 in.)	4.32 m (14 ft. 2 in.)
C Maximum Working Height	11.61 m (38 ft. 1 in.)	12.65 m (41 ft. 6 in.)
D Maximum Log-Level Height*	9.19 m (30 ft. 2 in.)	9.25 m (30 ft. 4 in.)†
E Minimum Swing Radius	4.57 m (15 ft. 0 in.)	4.24 m (13 ft. 11 in.)
F Tail Swing Radius	3.12 m (10 ft. 3 in.)	3.12 m (10 ft. 3 in.)

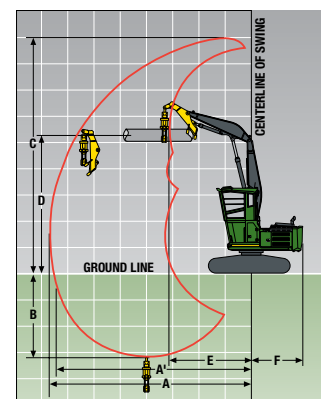
*Attachment dependent.

†Log resting on heel rack front plate.

2156G VIH



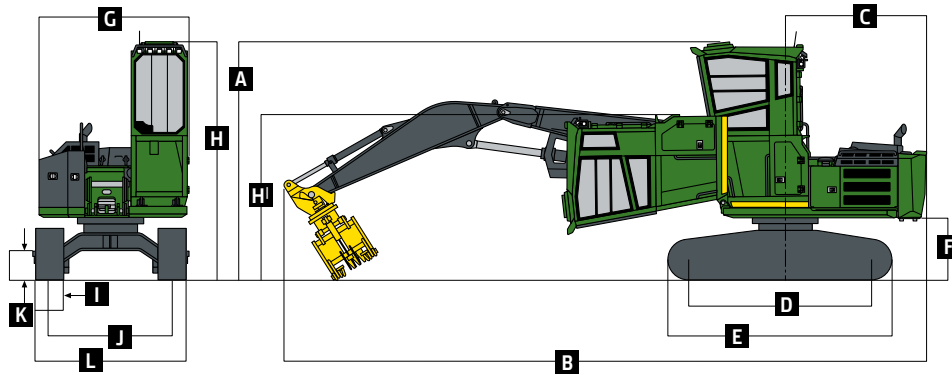
2156G Live Heel



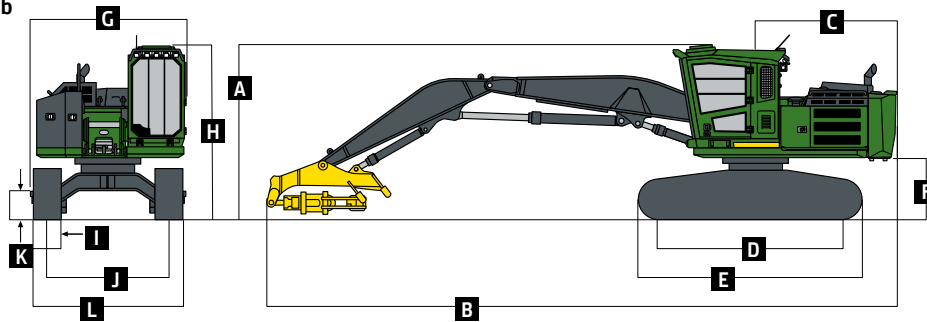
2156G

Machine Dimensions	2156G VIH Log Loader	2156G Live-Heel Log Loader	2156G Live-Heel Log Loader	2156G Live-Heel Log Loader
<i>Undercarriage</i>	<i>2.62-m (8 ft. 7 in.) HD</i>	<i>2.79-m (9 ft. 2 in.)</i>	<i>2.62-m (8 ft. 7 in.) XD</i>	<i>2.79-m (9 ft. 2 in.)</i>
A Height (rear-entry cab)	3.58 m (11 ft. 9 in.)	3.63 m (11 ft. 11 in.)	3.61 m (11 ft. 10 in.)	3.63 m (11 ft. 11 in.)
B Overall Length	13.67 m (44 ft. 10 in.)	13.67 m (44 ft. 10 in.)	13.49 m (44 ft. 3 in.)	13.49 m (44 ft. 3 in.)
C 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.)
D Distance Between Idler / Sprocket Centerline	3.66 m (12 ft. 0 in.)	3.66 m (12 ft. 0 in.)	3.73 m (12 ft. 3 in.)	3.66 m (12 ft. 0 in.)
E Undercarriage Length	4.45 m (14 ft. 7 in.)	4.45 m (14 ft. 7 in.)	4.70 m (15 ft. 5 in.)	4.45 m (14 ft. 7 in.)
F Counterweight Clearance	1.37 m (4 ft. 6 in.)	1.42 m (4 ft. 8 in.)	1.40 m (4 ft. 7 in.)	1.42 m (4 ft. 8 in.)
G 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.)
H Cab Height (rear-entry cab)	5.08 m (16 ft. 8 in.)	5.13 m (16 ft. 10 in.)	5.11 m (16 ft. 9 in.)	5.13 m (16 ft. 10 in.)
H' Tilted Cab Height (rear-entry cab)	3.58 m (11 ft. 9 in.)	3.63 m (11 ft. 11 in.)	3.61 m (11 ft. 10 in.)	3.63 m (11 ft. 11 in.)
I 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	0.91 m (36 in.) w/ 900-mm (36 in.) shoes	0.71 m (28 in.) w/ 700-mm (28 in.) shoes
J 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.)
K Ground Clearance	0.71 m (28 in.)	0.76 m (30 in.)	0.71 m (28 in.)	0.76 m (30 in.)
L 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	3.53 m (11 ft. 7 in.) w/ 900-mm (36 in.) shoes	3.51 m (11 ft. 6 in.) w/ 700-mm (28 in.) shoes

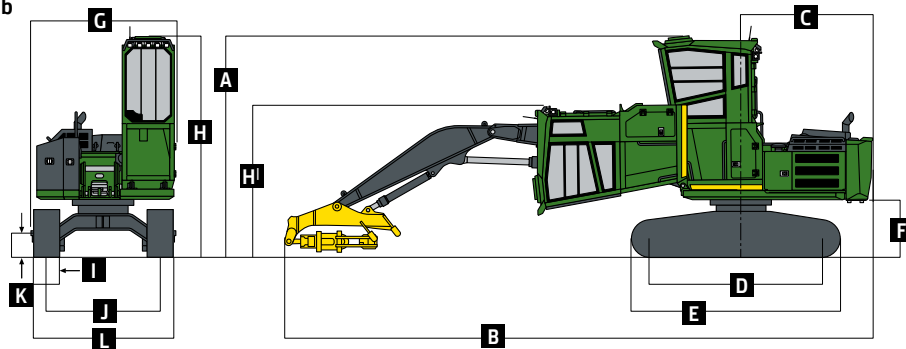
2156G VIH



2156G Live Heel – Low Cab



2156G Live Heel – High Cab



Specifications are subject to change without notice.

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

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 — 2156G Vih Log Loader with 2.79-m (9 ft. 2 in.) undercarriage and 700-mm (28 in.) shoes; bare pin										
Load Point Height	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		
10.7 m (35 ft.)	11 700 (25,800)	11 700 (25,800)								
9.1 m (30 ft.)	10 240 (22,570)	10 240 (22,570)	9110 (20,070)	8820 (19,440)						
7.6 m (25 ft.)			8770 (19,340)	8770 (19,340)	7900 (17,410)	6210 (13,690)				
6.1 m (20 ft.)	10 360 (22,830)	10 360 (22,830)	8970 (19,770)	8860 (19,540)	7910 (17,420)	6210 (13,700)				
4.6 m (15 ft.)	11 620 (25,600)	11 620 (25,600)	9540 (21,030)	8630 (19,010)	7790 (17,170)	6110 (13,460)	5840 (12,880)	4580 (10,100)		
3.1 m (10 ft.)			10 260 (22,600)	8280 (18,250)	7610 (16,780)	5940 (13,090)	5770 (12,720)	4520 (9,950)		
1.5 m (5 ft.)			10 350 (22,820)	7920 (17,450)	7420 (16,350)	5760 (12,690)	5690 (12,540)	4430 (9,770)		
Ground Line	14 380 (31,700)	11 580 (25,520)	10 050 (22,150)	7640 (16,840)	7270 (16,010)	5610 (12,370)	5630 (12,400)	4380 (9,640)		
-1.5 m (-5 ft.)	12 630 (27,830)	11 360 (25,040)	9450 (20,830)	7500 (16,530)	7070 (15,580)	5540 (12,210)	4490 (9,910)	4380 (9,650)		
-3.1 m (-10 ft.)	9380 (20,670)	9380 (20,670)	7160 (15,780)	7160 (15,780)						

Lift Capacity — 2156G Live-Heel Log Loader with 2.62-m (8 ft. 7 in.) XD undercarriage and 900-mm (36 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.)		10.7 m (35 ft.)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
12.2 m (40 ft.)	15 740 (34,680)	15 740 (34,680)										
10.7 m (35 ft.)			9790 (21,580)	9790 (21,580)	8750 (19,290)	8750 (19,290)						
9.1 m (30 ft.)					7820 (17,240)	7820 (17,240)	7150 (15,750)	6340 (13,980)				
7.6 m (25 ft.)					7670 (16,900)	7670 (16,900)	6910 (15,220)	6600 (14,540)	6270 (13,820)	4890 (10,780)		
6.1 m (20 ft.)					7930 (17,480)	7930 (17,480)	7040 (15,510)	6610 (14,570)	6180 (13,630)	4930 (10,860)		
4.6 m (15 ft.)			9660 (21,290)	9660 (21,290)	8630 (19,020)	8630 (19,020)	7350 (16,190)	6520 (14,370)	6130 (13,520)	4760 (10,500)	4760 (10,500)	3670 (8,090)
3.1 m (10 ft.)			11 450 (25,240)	11 450 (25,240)	9420 (20,760)	9130 (20,120)	7700 (16,960)	6360 (14,010)	6110 (13,470)	4740 (10,450)	4750 (10,470)	3660 (8,070)
1.5 m (5 ft.)			13 190 (29,080)	13 190 (29,080)	10 090 (22,240)	8710 (19,200)	7900 (17,420)	6170 (13,590)	6020 (13,270)	4660 (10,270)	4710 (10,370)	3620 (7,970)
Ground Line			13 950 (30,740)	12 810 (28,230)	10 200 (22,490)	8360 (18,430)	7800 (17,190)	6000 (13,220)	5900 (13,000)	4540 (10,010)	4170 (9,180)	3580 (7,890)
-1.5 m (-5 ft.)	6330 (13,960)	6330 (13,960)	13 230 (29,160)	12 410 (27,350)	9640 (21,250)	8140 (17,930)	7510 (16,560)	5860 (12,920)	5330 (11,750)	4470 (9,850)		
-3.1 m (-10 ft.)	8770 (19,320)	8770 (19,320)	10 930 (24,100)	10 930 (24,100)	8210 (18,100)	8090 (17,820)	6570 (14,490)	5830 (12,850)	3650 (8,050)	3650 (8,050)		

Lift Capacity — 2156G Live-Heel Log Loader 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.)		9.1 m (30 ft.)		10.7 m (35 ft.)	
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
12.2 m (40 ft.)	15 740 (34,680)	15 740 (34,680)										
10.7 m (35 ft.)			9790 (21,580)	9790 (21,580)	8750 (19,290)	7840 (17,290)						
9.1 m (30 ft.)					7820 (17,240)	7820 (17,240)	7150 (15,750)	5580 (12,300)				
7.6 m (25 ft.)					7670 (16,900)	7670 (16,900)	6910 (15,220)	5840 (12,870)	5570 (12,270)	4290 (9,450)		
6.1 m (20 ft.)					7930 (17,480)	7930 (17,480)	7040 (15,510)	6610 (14,570)	5850 (12,900)	4320 (9,530)		
4.6 m (15 ft.)			9660 (21,290)	9660 (21,290)	8630 (19,020)	8440 (18,600)	7350 (16,190)	5760 (12,690)	5440 (11,980)	4160 (9,170)	4180 (9,220)	3170 (6,980)
3.1 m (10 ft.)			11 450 (25,240)	11 450 (25,240)	9330 (20,560)	8120 (17,890)	7290 (16,070)	5600 (12,340)	5420 (11,950)	4150 (9,150)	4170 (9,180)	3150 (6,950)
1.5 m (5 ft.)			13 190 (29,080)	11 880 (26,180)	10 040 (22,120)	7700 (16,970)	7090 (15,630)	5410 (11,920)	5320 (11,725)	4050 (8,930)	4120 (9,080)	3110 (6,850)
Ground Line			10 540 (23,230)	10 540 (23,230)	9790 (21,570)	7350 (16,190)	6910 (15,230)	5240 (11,550)	5200 (11,460)	3940 (8,680)	4090 (9,020)	3080 (6,790)
-1.5 m (-5 ft.)	6330 (13,960)	6330 (13,960)	13 270 (29,240)	10 920 (24,070)	9480 (20,900)	7060 (15,570)	6770 (14,930)	5110 (11,270)	5140 (11,330)	3880 (8,550)		
-3.1 m (-10 ft.)	8770 (19,320)	8770 (19,320)	10 930 (24,100)	10 710 (23,610)	8210 (18,100)	7070 (15,590)	6570 (14,490)	5070 (11,180)	3650 (8,050)	3650 (8,050)		