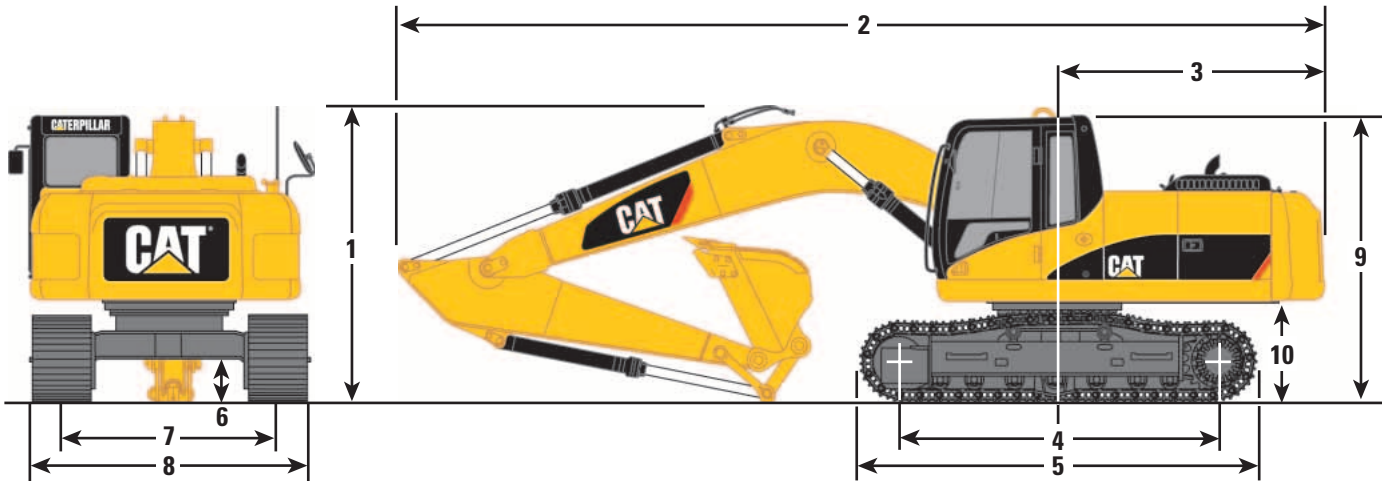


320D Hydraulic Excavator

Dimensions

All dimensions are approximate.

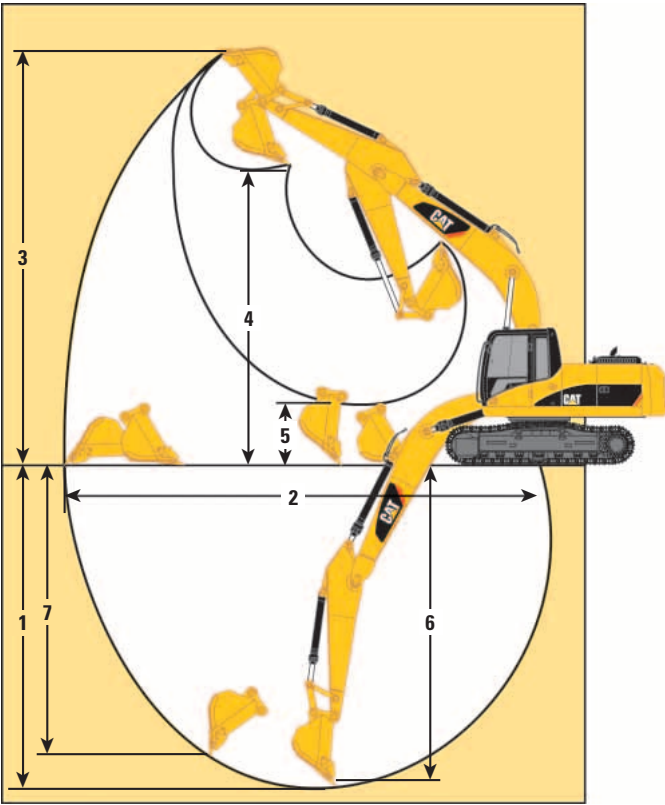


Boom Options		Reach 5.68 (18'7")
Stick Options		R2.9B1 m (9'7") Std/SA
1	Shipping Height	3030 mm (9'11")
2	Shipping Length	9460 mm (31'0")
3	Tail Swing Radius	2750 mm (9'0")
4	Length to Center of Rollers	3265 mm (10'9")
5	Track Length	4075 mm (13'4")
6	Ground Clearance	450 mm (1'6")
7	Track Gauge	2200 mm (7'3")
8	Transport Width	800 mm Shoes 3000 mm (9'10")
9	Cab Height	2950 mm (9'8")
10	Counterweight Clearance	1020 mm (3'4")

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Reach Excavator Working Ranges

Reach (R) boom configuration



Boom Options		Reach
		5.68 m (18'7")
Stick Options		R2.9B1 m (9'7")
1	Maximum Digging Depth	6580 mm (21'7")
2	Maximum Reach at Ground Level	9710 mm (31'10")
3	Maximum Cutting Height	9360 mm (30'9")
4	Maximum Loading Height	6640 mm (21'9")
5	Minimum Loading Height	2310 mm (7'7")
6	Maximum Depth Cut for 2440 m (8') Level Bottom	6400 mm (21'0")
7	Maximum Vertical Wall Digging Depth	5800 mm (19'0")
Bucket Digging Force (SAE)		137.5 kN (30,910 lb)
(ISO)		155.6 kN (34,980 lb)
Stick Digging Force (SAE)		105.6 kN (23,740 lb)
(ISO)		109.9 kN (24,710 lb)

All measurements are approximate

320D Hydraulic Excavator

Major Component Weights

	kg	lb
Base machine with counterweight and 800 mm (32") shoes (without front linkage)	17 210 kg	37,950 lb
Upper Structure without counterweight	6090 kg	13,430 lb
Undercarriage with 800 mm (32") triple grouser shoes	7260 kg	16,010 lb
Counterweight	3860 kg	8,510 lb
Boom		
Two Boom Cylinders (each)	175 kg	380 lb
Boom 5.7 m (19') Heavy Duty Reach (includes lines, pins, and stick cylinder)	2020 kg	4,460 lb
Stick Cylinder	280 kg	620 lb
Stick		
Stick R2.9B1 Reinforced (includes lines, pins, bucket cylinder and linkage)	1090 kg	2,400 lb
Stick R2.9B1 Heavy Duty (includes lines, pins, bucket cylinder and linkage)	1120 kg	2,470 lb
Bucket Cylinder	160 kg	350 lb
Bucket Linkage	140 kg	310 lb

320D Bucket Specifications

	Capacity		Width		Tip Radius		Weight (with tips)		Teeth	Heavy Duty Reach Boom Stick	
	m ³	yd ³	mm	in	mm	in	kg	lb	Qty	R2.9 reinforced	R2.9 HD
B1 Buckets											
General Purpose	0.9	1.2	1210	47.6	1426	56.1	738	1,627	6	●	●
Heavy Duty	1.0	1.3	1067	42.0	1578	62.1	912	2,011	5	—	●
Heavy Duty Power	1.0	1.3	1067	42.0	1404	55.3	923	2,035	5	—	●
Heavy Duty Rock	1.0	1.3	1067	42.0	1578	62.1	994	2,191	5	—	●

Assumptions for maximum material density rating:
1. Front linkage fully extended at ground line
2. Bucket curled
3. 100% bucket fill factor

- 1800 kg/m³ (3,000 lb/yd³) max material density
- 1500 kg/m³ (2,500 lb/yd³) max material density
- Not Available

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320D Work Tool Matching Guide

Boom Options	Reach Boom 5.7 m (18'7")
Stick Options	R2.9B1 (9'7")
Hydraulic Hammer	H115s/H120Cs/H130s
Vibratory Plate Compactor	CVP110
Trash Grapple	2.7 m³/3.5 yd³
Contractors' Grapple	yes
Hydraulic Thumb	yes
Dedicated Quick Coupler	yes
Pin-Grabber Quick Coupler	yes

320D Hydraulic Excavator

Reach Boom Lift Capacities



Load Point
Height



Load Radius
Over Front



Load Radius
Over Side



Load at
Maximum Reach

FRONT: Heavy Duty Reach Boom, R2.9B1 Reinforced Stick

BUCKET: 0.9 m³ (1.2 yd³) General Purpose

TRACK SHOE: 800 mm (32") triple grouser shoe

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)				
														m ft
7.5 m 25.0 ft	kg lb											*2050 *4,550	*2050 *4,550	7.75 25.11
6.0 m 20.0 ft	kg lb									*3250	2750	*1950 *4,300	*1950 *4,300	8.73 28.47
4.5 m 15.0 ft	kg lb							*4450 *9,700	4150 8,900	*4150 *9,100	2750 5,800	*1950 *4,250	1800 3,950	9.30 30.44
3.0 m 10.0 ft	kg lb			*10 700 *22,750	*10 700 *22,750	*6750 *14,550	6250 13,450	*5300 *11,400	3900 8,350	4150 8,900	2600 5,550	*2000 *4,400	1600 3,550	9.55 31.33
1.5 m 5.0 ft	kg lb					*8500 *18,250	5600 12,100	5800 12,400	3600 7,700	4000 8,550	2450 5,250	*2200 *4,750	1550 3,450	9.53 31.26
Ground Line	kg lb			*6250 *14,350	*6250 *14,350	8800 18,850	5200 11,200	5550 11,850	3400 7,250	3900 8,300	2350 5,000	*2450 *5,350	1650 3,600	9.22 30.24
-1.5 m -5.0 ft	kg lb	*5750 *12,850	*5750 *12,850	*9750 *22,100	*9750 *21,150	8600 18,450	5050 10,900	5400 11,600	3250 7,000	3800 8,200	2300 4,900	*2900 *6,350	1850 4,100	8.59 28.15
-3.0 m -10.0 ft	kg lb	*9700 *21,800	*9700 *21,800	*13 800 *29,800	10 100 *21,600	8650 18,550	5100 10,950	5400 11,600	3250 7,000			*3700 *8,200	2400 5,300	7.56 24.68
-4.5 m -15.0 ft	kg lb			*11 350 *24,350	10 500 22,500	*7900 *16,900	5300 11,400					*4050 *8,900	3700 8,300	5.93 19.26

* Limited by hydraulic capacity rather than tipping load. The above loads are in compliance with SAE hydraulic excavator lift capacity rating standard J1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Weight of all lifting accessories must be deducted from the above lifting capacities.