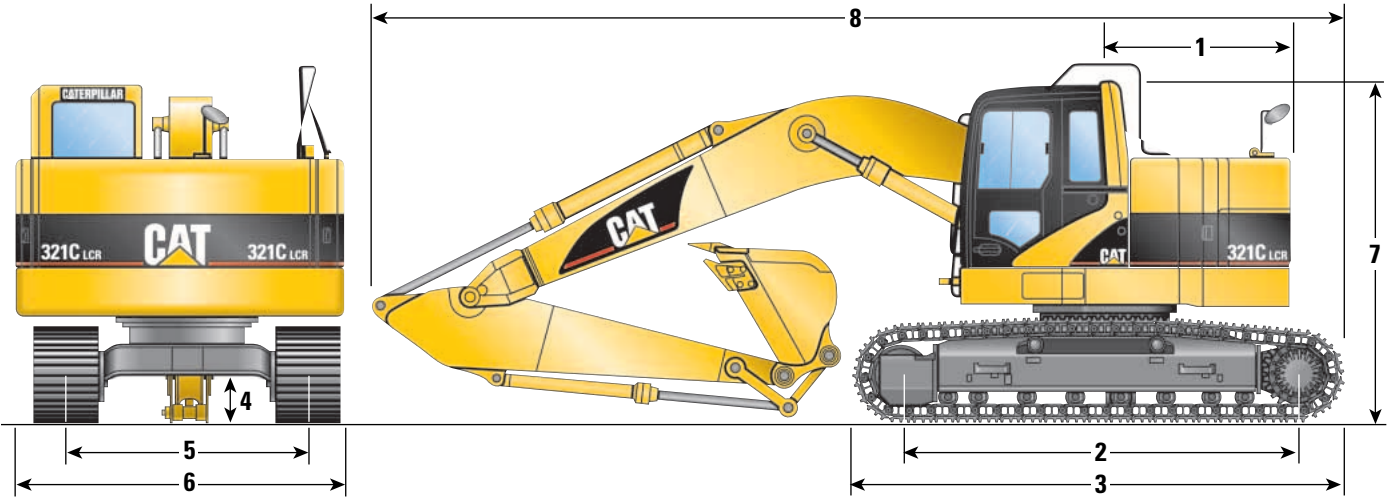


321C LCR Hydraulic Excavator

Dimensions

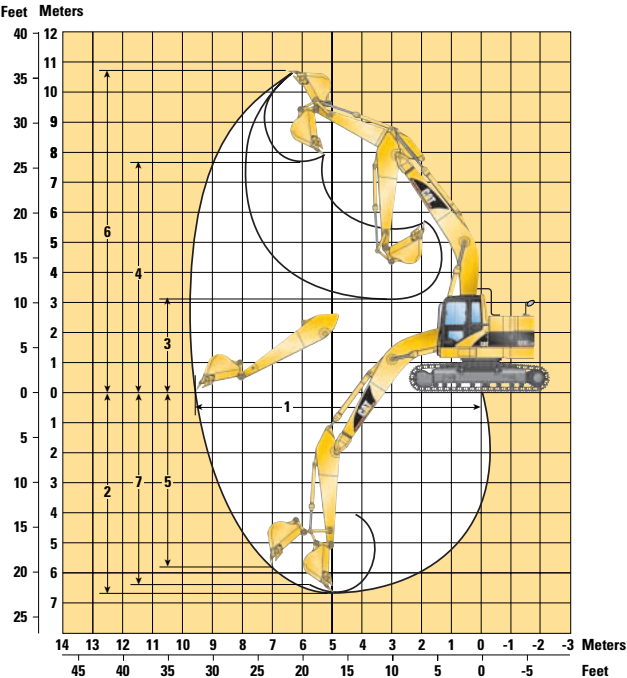
All dimensions are approximate.



1	Tail Swing Radius	1676 mm (5'6")
2	Length to Centers of Rollers – Long Undercarriage	3650 mm (12'0")
3	Track Length – Long Undercarriage	4455 mm (14'7")
4	Ground Clearance	475 mm (1'7")
5	Track Gauge – Long Undercarriage	2380 mm (7'10")

6	Shipping Width – Long Undercarriage	
	800 mm	3180 mm (10'5")
	700 mm	3080 mm (10'1")
	600 mm	2980 mm (9'9")
7	Shipping Height	3170 mm (10'5")
8	Shipping Length	8830 mm (29'0")

Working Ranges



		Reach Boom R2.9B
Stick Length		2900 mm (9'6")
Bucket		1 m ³ (1.3 yd ³)
1	Maximum Reach at Ground Level	9690 mm (31'9")
2	Maximum Digging Depth	6620 mm (21'9")
3	Minimum Loading Height	3060 mm (10'0")
4	Maximum Loading Height	7980 mm (26'2")
5	Maximum Vertical Wall Digging Depth	5930 mm (19'5")
6	Maximum Cutting Height	10 920 mm (35'10")
7	Maximum Depth for Cut for 8' Level Bottom	6370 mm (20'11")
Bucket Digging Force (ISO)		141 kN (31,700 lb)
(SAE)		125 kN (28,100)
Stick Digging Force (ISO)		101 kN (22,700 lb)
(SAE)		98 kN (22,000)

321C LCR Hydraulic Excavator

321C LCR Bucket Options

	Part #	Capacity*		Width		Tip Radius		Weight (w/o tips)		Teeth	Tip Weight	Total Weight	Reach
		m³	yd³	mm	in	mm	in	kg	lb	Qty	lb	lb	R2.9B
B Buckets													
General Purpose Buckets (GP)	151-9856	0.70	0.88	775	30	1626	64.0	665	1463	4	16	1527	●
	151-9858	0.90	1.12	932	36	1626	64.0	741	1630	5	16	1710	●
	151-9860	1.10	1.50	1082	42	1626	64.0	777	1710	5	16	1790	◐
	151-9862	1.30	1.75	1230	48	1626	64.0	907	1995	6	16	2091	○
Heavy Duty Buckets (HD)	142-2540	0.45	0.62	625	24	1563	61.5	639	1405	3	16	1453	●
	142-2541	0.60	0.75	775	30	1563	61.5	691	1520	4	16	1584	●
	142-2543	0.80	1.00	932	36	1563	61.5	765	1683	5	16	1763	●
	142-2545	1.00	1.25	1082	42	1563	61.5	814	1790	5	16	1870	●
	163-5473	1.10	1.50	1230	48	1563	61.5	942	2072	6	16	2168	◐
	148-8828	1.10	1.50	1230	48	1563	61.5	912	2007	6	16	2103	◐
Heavy Duty Power (HDP)	198-2710	0.75	1.00	932	36	1406	55.0	834	1839	5	16	1919	●
	198-2711	1.00	1.30	1082	42	1406	55.0	901	1986	5	16	2066	◐
	198-2712	1.20	1.57	1230	48	1406	55.0	977	2154	6	16	2250	◐
Heavy Duty Rock Buckets (HDR)	162-2950	0.45	0.62	625	24	1563	61.5	727	1600	3	16	1648	●
	142-2542	0.60	0.75	775	30	1563	61.5	845	1860	4	16	1924	●
	142-2544	0.80	1.00	932	36	1563	61.5	864	1900	5	16	1980	●
	142-2546	1.00	1.25	1082	42	1563	61.5	912	2006	5	16	2086	◐
Ditch Cleaning Buckets (DC)	132-5063	0.90	1.12	1422	56	1143	45.0	707	1555	0		1555	●
	132-5064	1.1	1.50	1727	68	1143	45.0	786	1730	0		1730	◐

Assumptions for maximum material density rating:

1. Front linkage fully extended at ground line
2. Bucket curled
3. 100% bucket fill factor

* Capacities based on SAE J296. Some calculations of capacity fall on borderlines.
Rounding may allow two buckets to have the same English rating, but different metric ratings.

- 2100 kg/m³ (3500 lbs/yd³)
- ◐ 1800 kg/m³ (3000 lbs/yd³)
- 1500 kg/m³ (2500 lbs/yd³)
- 1200 kg/m³ (2000 lbs/yd³)

321C LCR Bucket and Stick Forces

Power Buckets		
Stick	R2.9B (9'6")	
Bucket Digging Force (ISO)	159 kN	35,800 lb
Stick Digging Force (ISO)	103 kN	23,100 lb
Bucket Digging Force (SAE)	142 kN	31,800 lb
Stick Digging Force (SAE)	100 kN	22,400 lb
HD and HDR Buckets		
Stick	R2.9B (9'6")	
Bucket Digging Force (ISO)	145 kN	32,500 lb
Stick Digging Force (ISO)	100 kN	22,500 lb
Bucket Digging Force (SAE)	128 kN	28,900 lb
Stick Digging Force (SAE)	97 kN	21,800 lb

321C LCR Hydraulic Excavator

Reach Boom Lift Capacities



Load Point
Height



Load Radius
Over Front



Load Radius
Over Side



Load at
Maximum Reach

R2.9B STICK – 2900 mm (9'6")
BUCKET – 0.9 m³ (1.2 yd³)

UNDERCARRIAGE – Long
SHOES – 800 mm (32") triple grouser

BOOM – Reach

		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
9.0 m 30.0 ft	kg lb											*1450 *3100	*1450 *3100	5.75 18.23
7.5 m 25.0 ft	kg lb							*2700 *5450	*2700 *5450			*1950 *4150	*1950 *4150	7.22 23.39
6.0 m 20.0 ft	kg lb					*5200 *11,350	*5200 *11,350	*4950 *10,800	4950 10,550	*3400 *6750	3350 *6750	*2300 *5000	*2300 *5000	8.06 26.29
4.5 m 15.0 ft	kg lb			*8100 *16,700	*8100 *16,700	*6600 *14,150	*6600 *14,150	*5650 *12,250	4750 10,200	*5000 *10,300	3200 6850	*2400 *5250	*2400 *5250	8.51 27.88
3.0 m 10.0 ft	kg lb			*11 550 *29,150	*11 550 *29,150	*8500 *18,250	7100 15,300	*6550 *14,150	4500 9650	5300 11,300	3100 6600	*2600 *5700	2400 5200	8.67 28.45
1.5 m 5.0 ft	kg lb					*10 150 *21,900	6600 14,150	7400 15,850	4250 9150	5150 11,050	3000 6350	*2950 *6450	2350 5100	8.60 28.22
Ground Line	kg lb			*5950 *13,600	*5950 *13,600	*11 000 *23,750	6250 13,450	7150 15,400	4050 8750	5050 10,850	2900 6150	*3350 *7350	2400 5250	8.39 27.52
-1.5 m -5.0 ft	kg lb	*5850 *13,000	*5850 *13,000	*9700 *22,050	*9700 *22,050	*10 900 *23,600	6150 13,200	7050 15,200	4000 8550	5000 10,750	2850 6100	*4050 *8950	2650 5800	7.89 25.84
-3.0 m -10.0 ft	kg lb	*9900 *22,200	*9900 *22,200	*14 150 *30,550	12 300 26,300	*9950 *21,500	6200 13,300	7100 15,250	4000 8600			*5400 *12,050	3200 7050	7.03 22.95
-4.5 m -15.0 ft	kg lb			*10 850 *23,100	*10 850 *23,100	*7750 *16,350	6400 13,800					*5550 *12,200	4550 10,250	5.66 18.30

* 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.

R2.9B STICK – 2900 mm (9'6")
BUCKET – 0.9 m³ (1.2 yd³)

UNDERCARRIAGE – Long
SHOES – 600 mm (24") triple grouser

BOOM – Reach

		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
9.0 m 30.0 ft	kg lb											*1450 *3100	*1450 *3100	5.75 18.23
7.5 m 25.0 ft	kg lb							*2700 *5450	*2700 *5450			*1950 *4150	*1950 *4150	7.22 23.39
6.0 m 20.0 ft	kg lb					*5200 *11,350	*5200 *11,350	*4950 *10,800	4800 10,300	*3400 *6750	3250 *6750	*2300 *5000	*2300 *5000	8.06 26.29
4.5 m 15.0 ft	kg lb			*8100 *16,700	*8100 *16,700	*6600 *14,150	*6600 *14,150	*5650 *12,250	4600 9900	*5000 *10,300	3100 6650	*2400 *5250	*2400 *5250	8.51 27.88
3.0 m 10.0 ft	kg lb			*11 550 *29,150	*11 550 28,800	*8500 *18,250	6950 14,900	*6550 *14,150	4400 9400	5150 11,000	3000 6400	*2600 *5700	2300 5050	8.67 28.45
1.5 m 5.0 ft	kg lb					*10,150 *21,900	6400 13,750	7150 15,400	4150 8850	5000 10,700	2900 6150	*2950 *6450	2250 4950	8.60 28.22
Ground Line	kg lb			*5950 *13,600	*5950 *13,600	*11 000 *23,750	6050 13,000	6950 14,950	3950 8450	4900 10,500	2800 5950	*3350 *7350	2300 5050	8.39 27.52
-1.5 m -5.0 ft	kg lb	*5850 *13,000	*5850 *13,000	*9700 *22,050	*9700 *22,050	*10 900 *23,600	5950 12,800	6850 14,700	3850 8250	4850 10,400	2750 5850	*4050 *8950	2550 5600	7.89 25.84
-3.0 m -10.0 ft	kg lb	*9900 *22,200	*9900 *22,200	*14 150 *30,550	11 950 25,550	*9950 *21,500	6000 12,900	6900 14,800	3850 8300			5400 12,000	3100 6800	7.03 22.95
-4.5 m -15.0 ft	kg lb			*10 850 *23,100	*10 850 *23,100	*7750 *16,350	6200 13,350					*5550 *12,200	4400 9950	5.66 18.30

* 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.

321C LCR Hydraulic Excavator

Reach Boom Lift Capacities



Load Point
Height



Load Radius
Over Front



Load Radius
Over Side



Load at
Maximum Reach

R2.9B STICK – 2900 mm (9'6")

BUCKET – 0.9 m³ (1.2 yd³)

UNDERCARRIAGE – Long

SHOES – 700 mm (28") triple grouser

BOOM – Reach

		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
9.0 m 30.0 ft	kg lb											*1450 *3100	*1450 *3100	5.75 18.23
7.5 m 25.0 ft	kg lb							*2700 *5450	*2700 *5450			*1950 *4150	*1950 *4150	7.22 23.39
6.0 m 20.0 ft	kg lb					*5200 *11,350	*5200 *11,350	*4950 *10,800	4850 10,450	*3400 *6750	3300 *6750	*2300 *5000	*2300 *5000	8.06 26.29
4.5 m 15.0 ft	kg lb			*8100 *16,700	*8100 *16,700	*6600 *14,150	*6600 *14,150	*5650 *12,250	4700 10,050	*5000 *10,300	3150 6750	*2400 *5250	*2400 *5250	8.51 27.88
3.0 m 10.0 ft	kg lb			*11 550 *29,150	*11 550 *29,150	*8500 *18,250	7050 15,150	*6550 *14,150	4450 9550	5200 11,200	3050 6550	*2600 *5700	2350 5150	8.67 28.45
1.5 m 5.0 ft	kg lb					*10 150 *21,900	6500 14,000	7300 15,650	4200 9000	5100 10,900	2950 6300	*2950 *6450	2300 5050	8.60 28.22
Ground Line	kg lb			*5950 *13,600	*5950 *13,600	*11 000 *23,750	6200 13,250	7100 15,200	4000 8600	5000 10,700	2850 6100	*3350 *7350	2350 5200	8.39 27.52
-1.5 m -5.0 ft	kg lb	*5850 *13,000	*5850 *13,000	*9700 *22,050	*9700 *22,050	*10 900 *23,600	6050 13,050	7000 15,000	3950 8450	4950 10,600	2800 6000	*4050 *8950	2600 5700	7.89 25.84
-3.0 m -10.0 ft	kg lb	*9900 *22,200	*9900 *22,200	*14 150 *30,550	12 150 26,000	*9950 *21,500	6100 13,150	7000 15,050	3950 8500			*5400 *12,050	3150 6950	7.03 22.95
-4.5 m -15.0 ft	kg lb			*10 850 *23,100	*10 850 *23,100	*7750 *16,350	6350 13,600					*5550 *12,200	4500 10,150	5.66 18.30

* 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.