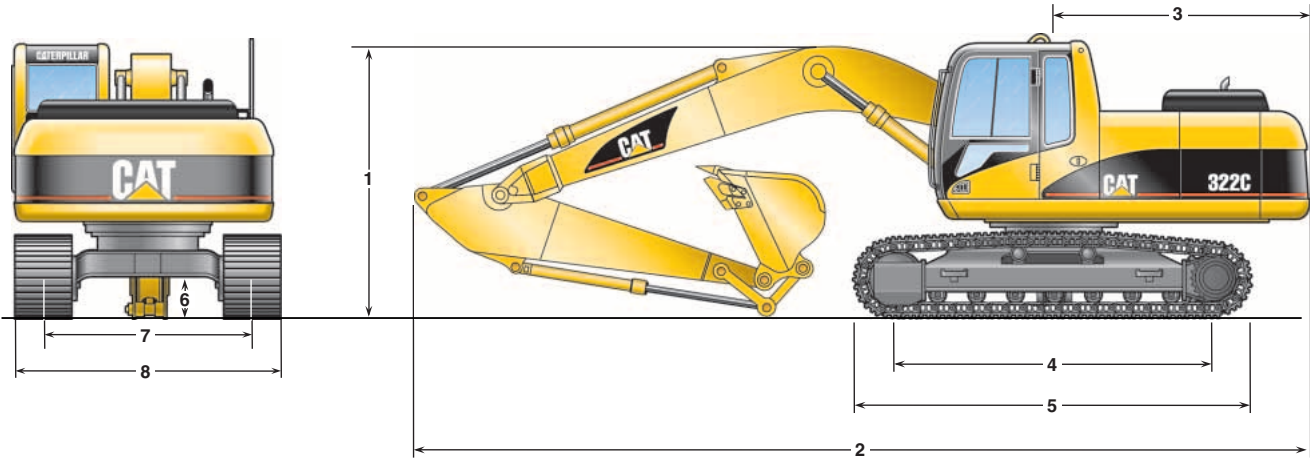


322C Hydraulic Excavators

Dimensions

All dimensions are approximate.



Boom Options	Reach — 5.9 m (19'4")	Reach — 5.9 m (19'4")	Mass — 5.3 m (17'5")	Long Reach — 10.2 m (33'5")
Stick Options	R2.95S m (9'8")	R2.5S m (8'2")	M2.5 m (8'2")	7.85 m (25'9")
1 Shipping height	3120 mm (10'3")	3280 mm (10'9")	3450 mm (11'4")	3170 mm (10'5")
2 Shipping length	9960 mm (32'8")	10 000 mm (32'10")	9400 mm (30'10")	14 240 mm (46'9")
3 Tail swing radius	2900 mm (9'6")	2900 mm (9'6")	2900 mm (9'6")	2975 mm (9'9")
4 Length to centers of rollers				
Standard	3450 mm (11'4")	3450 mm (11'4")	3450 mm (11'4")	N/A
Long	3830 mm (12'7")	3830 mm (12'7")	3830 mm (12'7")	3830 mm (12'7")
5 Track length				
Standard	4260 mm (14'0")	4260 mm (14'0")	4260 mm (14'0")	N/A
Long	4640 mm (15'3")	4640 mm (15'3")	4640 mm (15'3")	4640 mm (15'3")
6 Ground clearance	470 mm (1'7")	470 mm (1'7")	470 mm (1'7")	470 mm (1'7")
7 Track gauge				
Standard	2390 mm (7'10")	2390 mm (7'10")	2390 mm (7'10")	N/A
Long	2590 mm (8'6")	2590 mm (8'6")	2590 mm (8'6")	2590 mm (8'6")
8 Transport width				
Standard	600 mm (24") shoes 2990 mm (9'10")	700 mm (28") shoes 3090 mm (10'2")	800 mm (32") shoes 3190 mm (10'6")	
Long	3190 mm (10'6")	3290 mm (10'10")	3390 mm (11'1")	

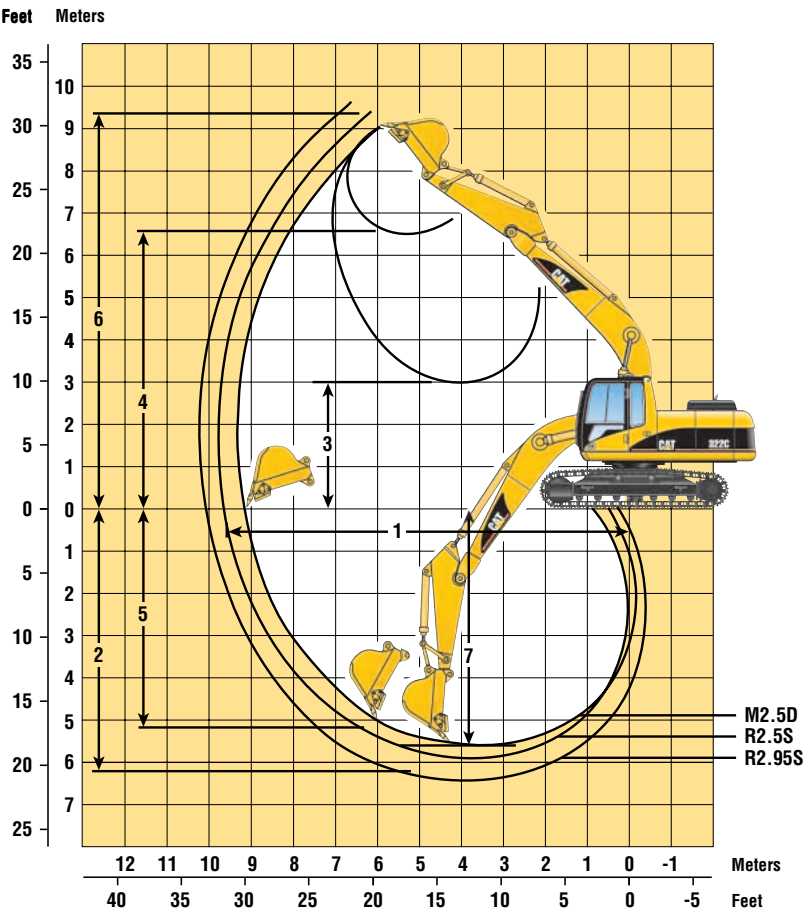
Operating Weight	600 mm (24") Shoes (322C)		800 mm (32") Shoes (322C L)	
Reach Boom	kg	lb	kg	lb
Stick Options:				
2.95 m (9'8")	23 000	50,700	24 200	53,400
2.5 m (8'2")	23 000	50,700	24 200	53,400
Mass Boom				
Stick Option:				
2.5 m (8'2")	23 700	52,300	24 900	54,900
Long Reach			kg	lb
Total Weight	Not Recommended		27 930*	61,580*

* Including 0.45 m³ (0.60 yd³) excavation bucket

322C Hydraulic Excavators

Working Ranges

Major Component Weights



Booms: including lines, boom cylinders, stick cylinders and left side light

	kg	lb
Reach	2460	5420
Mass	2560	5640

Sticks: including bucket cylinder and bucket linkage

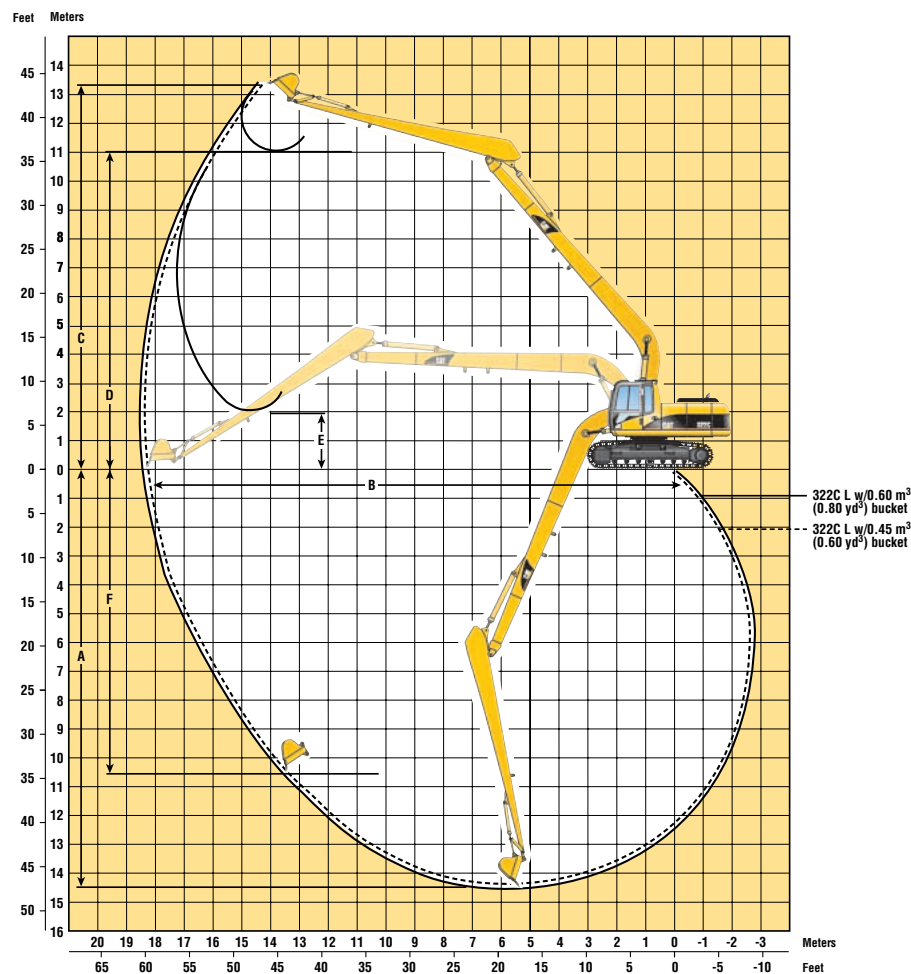
	kg	lb
R2.95S	1180	2600
R2.5S	1160	2560
M2.4D	1480	3260

Counterweight	4450	9812
---------------	------	------

	Reach Boom 5.9 m (19'4")	Reach Boom 5.9 m (19'4")	Mass Boom 5.3 m (17'5")
Stick Length	R2.95S (9'8")	R2.5S (8'2")	M2.5D (8'2")
Bucket	1.0 m³ (1.3 yd³)	1.1 m³ (1.4 yd³)	1.4 m³ (1.8 yd³)
1 Maximum Reach at Ground Level	10.01 m (32'10")	9.59 m (31'6")	9.12 m (29'11")
2 Maximum Digging Depth	6.71 m (22'0")	6.26 m (20'7")	5.91 m (19'5")
3 Minimum Loading Height	2.51 m (8'3")	2.97 m (9'9")	2.37 m (7'9")
4 Maximum Loading Height	6.73 m (22'1")	6.54 m (21'5")	5.98 m (19'7")
5 Maximum Vertical Wall Digging Depth	5.70 m (18'8")	5.26 m (17'3")	5.18 m (17'0")
6 Maximum Cutting Height	9.68 m (31'9")	9.48 m (31'1")	9.16 m (30'1")
7 Maximum Depth for Cut for 8' Level Bottom	6.40 m (21'0")	5.94 m (19'6")	5.56 m (18'3")
Bucket Digging Force (ISO/New JIS)	167 kN (37,540 lb)	167 kN (37,540 lb)	224 kN (50,360 lb)
Bucket Digging Force (SAE/Old JIS)	151 kN (33,950 lb)	151 kN (33,950 lb)	189 kN (42,490 lb)
Stick Digging Force (ISO/New JIS)	119 kN (26,750 lb)	140 kN (31,470 lb)	140 kN (31,470 lb)
Stick Digging Force (SAE/Old JIS)	116 kN (26,080 lb)	136 kN (30,570 lb)	133 kN (29,900 lb)

322C Hydraulic Excavators

Long Reach Excavator Working Range



Major Component Weights

Booms: including lines, boom cylinders, stick cylinders and left side light

	kg	lb
Boom	3130	6900

Sticks: including bucket cylinder and bucket linkage

	kg	lb
Stick	1570	3460

Counterweight	6950	15,320
---------------	------	--------

Arrangements	322C L SLR 0.45 m³ (0.60 yd³) Excavation	322C L SLR 0.60 m³ (0.80 yd³) Ditch
A Maximum Digging Depth	14 720 mm (48'4")	14 595 mm (47'11")
B Maximum Reach at Ground Level	18 430 mm (60'6")	18 300 mm (60')
C Maximum Cutting Height	14 230 mm (46'8")	14 190 mm (46'7")
D Maximum Dumping Height	12 005 mm (39'5")	12 135 mm (39'10")
E Minimum Dumping Height	1360 mm (4'6")	1490 mm (4'11")
F Maximum Vertical Wall Digging Depth	12 825 mm (42'1")	13 945 mm (45'9")
Bucket Digging Force (SAE)	54 kN (12,162 lb)	61 kN (13,710 lb)
Stick Digging Force (SAE)	50 kN (11,263 lb)	51 kN (11,470 lb)
Bucket Digging Force (ISO)	60 kN (13,490 lb)	61 kN (13,710 lb)
Stick Digging Force (ISO)	45 kN (10,110 lb)	51 kN (11,470 lb)

322C Hydraulic Excavators

322C Bucket Specifications and Compatibility (600 mm, 24" triple grouser shoes)

	Capacity*		Width		Tip Radius		Weight w/o tips		Teeth			Mass Boom Stick
	m ³	yd ³	mm	in	mm	in	kg	lb	Qty	R2.5S	R2.95S	M2.5D
S-Buckets for Reach Linkage												
Excavation Buckets	1.0	1.3	1255	48	1550	61	753	1660	5	●	●	-
	1.1	1.4	1355	53	1550	61	789	1739	5	●	●	-
	1.2	1.6	1315	52	1550	61	794	1750	5	●	∴	-
D-Buckets for Mass Linkage												
Excavation Buckets	1.4	1.8	1430	56	1660	65	1080	2380	5	-	-	∴
	1.5	2.0	1500	59	1660	65	1108	2443	5	-	-	○

322C L Bucket Specifications and Compatibility (800 mm, 32" triple grouser shoes)

	Capacity*		Width		Tip Radius		Weight w/o tips		Teeth			Mass Boom Stick
	m ³	yd ³	mm	in	mm	in	kg	lb	Qty	R2.5S	R2.95S	M2.5D
S-Buckets for Reach Linkage												
Excavation Buckets	1.0	1.3	1255	48	1550	61	753	1660	5	●	●	-
	1.1	1.4	1355	53	1550	61	789	1739	5	●	●	-
	1.2	1.6	1315	52	1550	61	794	1750	5	●	●	-
D-Buckets for Mass Linkage												
Excavation Buckets	1.4	1.8	1430	56	1660	65	1080	2380	5	-	-	●
	1.5	2.0	1500	59	1660	65	1108	2443	5	-	-	●

Assumptions for maximum material density rating:

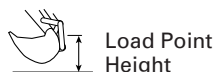
- 1. Front linkage fully extended at ground line
- 2. Bucket curled
- 3. 100% bucket fill factor

* Based on SAE J296, some calculations of capacity specs 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)
- Not Available

322C Hydraulic Excavators

Reach Boom Lift Capacities



Load Point
Height



Load at
Maximum Reach



Load Radius
Over Front



Load Radius
Over Side

R2.5S STICK – 2500 mm (8'2")
BUCKET – 1.1 m³ (1.4 yd³)

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

BOOM – 5900 mm (19'4")

		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					*5100 *11,200	*5100 *11,200			*4050 *8900	*4050 *8900	7.57 24.48
6.0 m 20.0 ft	kg lb					*5500 *12,000	*5500 *12,000			*3900 *8600	3250 7200	8.59 28.01
4.5 m 15.0 ft	kg lb			*7450 *16,000	*7450 *16,000	*6200 *13,400	5800 12,450	*5550 *12,150	3900 8300	*3950 *8700	2750 6100	9.18 30.04
3.0 m 10.0 ft	kg lb			*9600 *20,550	8650 18,650	*7150 *15,450	5500 11,800	*6000 12,900	3800 8100	4150 *9050	2550 5600	9.43 30.93
1.5 m 5.0 ft	kg lb			*11 350 *24,500	8050 17,300	*8100 *17,500	5200 11,150	5850 12,600	3650 7800	4100 9000	2500 5500	9.39 30.82
Ground Line	kg lb			*12 100 *26,200	7700 16,600	8200 17,650	5000 10,700	5750 12,350	3550 7550	4300 9450	2650 5800	9.05 29.68
-1.5 m -5.0 ft	kg lb	*9650 *22,000	*9650 *22,000	*11 950 *25,850	7650 16,450	8150 17,450	4900 10,550	5700 12,300	3500 7500	4900 10,750	3000 6600	8.37 27.40
-3.0 m -10.0 ft	kg lb	*15 250 *33,000	*15 250 *33,000	*10 950 *23,600	7750 16,700	*8050 *17,300	4950 10,650			*4500 *9700	3850 8600	7.23 23.58
-4.5 m -15.0 ft	kg lb	*11 800 *26,000	*11 800 *26,000	*8600 *18,300	8050 17,350					*6600 *14,500	5850 13,200	5.54 17.90

* 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.

R2.5S STICK – 2500 mm (8'2")
BUCKET – 1.1 m³ (1.4 yd³)

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

BOOM – 5900 mm (19'4")

		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					*5100 *11,200	*5100 *11,200			*4050 *8900	3650 8200	7.57 24.48
6.0 m 20.0 ft	kg lb					*5500 *12,000	5250 11,200			*3900 *8600	2800 6200	8.59 28.01
4.5 m 15.0 ft	kg lb			*7450 *16,000	*7450 *16,000	*6200 *13,400	5050 10,800	5050 10,850	3350 7150	3650 8000	2350 5200	9.18 30.04
3.0 m 10.0 ft	kg lb			*9600 *20,550	7500 16,100	*7150 *15,450	4750 10,200	4950 10,600	3250 6900	3350 7400	2150 4750	9.43 30.93
1.5 m 5.0 ft	kg lb			11 100 23,600	6850 14,750	6900 14,750	4450 9550	4800 10,250	3100 6650	3350 7300	2100 4650	9.39 30.82
Ground Line	kg lb			10 650 22,800	6550 14,100	6650 14,300	4250 9150	4700 10,050	3000 6400	3500 7700	2200 4850	9.05 29.68
-1.5 m -5.0 ft	kg lb	*9650 *22,000	*9650 *22,000	10 550 22,650	6500 13,950	6600 14,100	4200 8950	4650 10,000	2950 6350	4000 8750	2550 5600	8.37 27.40
-3.0 m -10.0 ft	kg lb	*15 250 *33,000	13 350 28,550	10 700 22,900	6600 14,200	6650 14,250	4250 9100			*4500 *9700	3300 7350	7.23 23.58
-4.5 m -15.0 ft	kg lb	*11 800 *26,000	*11 800 *26,000	*8600 *18,300	6900 14,850					*6600 *14,500	5000 11,350	5.54 17.90

* 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.

322C Hydraulic Excavators

Reach Boom Lift Capacities



Load Point
Height



Load at
Maximum Reach



Load Radius
Over Front



Load Radius
Over Side

R2.95S STICK – 2950 mm (9'8")
BUCKET – 1.0 m³ (1.3 yd³)

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

BOOM – 5900 mm (19'4")

		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											*3000 *6600	*3000 *6600	8.09 26.24
6.0 m 20.0 ft	kg lb							*5050 *11,000	*5050 *11,000	*4950 *10,050	4100 8700	*2900 *6350	*2900 *6350	9.04 29.51
4.5 m 15.0 ft	kg lb							*5750 *12,500	*5750 *12,500	*5250 *11,450	4000 8500	*2950 *6450	2600 5700	9.60 31.43
3.0 m 10.0 ft	kg lb					*8900 *19,150	8900 19,150	*6800 *14,700	5600 12,000	*5750 *12,450	3850 8200	*3050 *6750	2400 5250	9.84 32.28
1.5 m 5.0 ft	kg lb					*10 950 *23,550	8200 17,700	*7850 *16,900	5300 11,350	5900 12,700	3700 7900	*3300 *7300	2350 5150	9.80 32.17
Ground Line	kg lb			*5150 *11,900	*5150 *11,900	*12 000 *25,950	7800 16,800	8300 17,750	5050 10,850	5800 12,400	3550 7650	*3750 *8200	2450 5350	9.48 31.10
-1.5 m -5.0 ft	kg lb	*5600 *12,550	*5600 *12,550	*9300 *21,100	*9300 *21,100	*12 150 *26,250	7700 16,500	8150 17,450	4950 10,600	5700 12,250	3500 7500	*4400 *9700	2750 6050	8.84 28.95
-3.0 m -10.0 ft	kg lb	*10 050 *22,500	*10 050 *22,500	*14 850 *33,800	*14 850 *33,800	*11 400 *24,600	7750 16,650	8150 17,500	4950 10,600			*5350 *11,700	3450 7600	7.79 25.41
-4.5 m -15.0 ft	kg lb			*13 400 *28,750	*13 400 *28,750	*9550 *20,400	7950 17,100	*6750 *14,850	5100 11,250			*4900 *10,850	*4900 *10,850	6.16 20.03

* 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.

R2.95S STICK – 2950 mm (9'8")
BUCKET – 1.0 m³ (1.3 yd³)

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

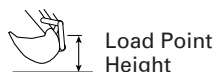
BOOM – 5900 mm (19'4")

		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											*3000 *6600	*3000 *6600	8.09 26.24
6.0 m 20.0 ft	kg lb							*5050 *11,000	*5050 *11,000	*4950 *10,050	3550 7550	*2900 *6350	2550 5700	9.04 29.51
4.5 m 15.0 ft	kg lb							*5750 *12,500	5150 11,050	5150 11,050	3450 7350	*2950 *6450	2200 4850	9.60 31.43
3.0 m 10.0 ft	kg lb					*8900 *19,150	7700 16,600	*6800 *14,700	4850 10,400	5000 10,750	3300 7050	*3050 *6750	2000 4450	9.84 32.28
1.5 m 5.0 ft	kg lb					*10 950 *23,550	7050 15,150	6950 14,950	4550 9750	4850 10,400	3150 6750	3100 6850	1950 4300	9.80 32.17
Ground Line	kg lb			*5150 *11,900	*5150 *11,900	10 750 23,050	6650 14,300	6700 14,400	4300 9250	4700 10,100	3050 6450	3250 7150	2050 4500	9.48 31.10
-1.5 m -5.0 ft	kg lb	*5600 *12,550	*5600 *12,550	*9300 *21,100	*9300 *21,100	10 600 22,700	6550 14,050	6600 14,150	4200 9000	4650 9950	2950 6350	3650 8050	2300 5100	8.84 28.95
-3.0 m -10.0 ft	kg lb	*10 050 *22,500	*10 050 *22,500	*14 850 *33,800	13 250 28,350	10 650 22,850	6600 14,150	6600 14,200	4200 9050			4500 10,000	2900 6450	7.79 25.41
-4.5 m -15.0 ft	kg lb			*13 400 *28,750	*13 400 *28,750	*9550 *20,400	6800 14,600	*6750 *14,850	4350 9600			*4900 *10,850	4400 9800	6.16 20.03

* 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.

322C Hydraulic Excavators

Mass Boom Lift Capacities



Load Point
Height



Load at
Maximum Reach



Load Radius
Over Front



Load Radius
Over Side

M2.5D STICK – 2500 mm (8'2")

BUCKET – 1.4 m³ (1.8 yd³)

UNDERCARRIAGE – Long

SHOES – 800 mm (32") triple grouser

BOOM – 5300 mm (17'5")

		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											*3500 *7700	*3500 *7700	6.85 22.07
6.0 m 20.0 ft	kg lb							*5400 *11,750	*5400 *11,750			*3300 *7250	*3300 *7250	8.01 26.09
4.5 m 15.0 ft	kg lb					*6900 *14,850	*6900 *14,850	*5950 *12,950	5500 11,800			*3300 *7200	2750 6100	8.65 28.31
3.0 m 10.0 ft	kg lb					*8850 *19,050	8650 18,550	*6850 *14,750	5250 11,250	5700 12,150	3450 7300	*3450 *7550	2500 5500	8.92 29.26
1.5 m 5.0 ft	kg lb					*10,700 *23,100	7950 17,050	*7750 *16,750	4950 10,600	5550 11,900	3300 7050	*3750 *8250	2450 5400	8.87 29.10
Ground Line	kg lb					*11 700 *25,250	7550 16,150	8000 17,100	4750 10,150	5450 11,700	3250 6900	*4300 *9500	2650 5750	8.48 27.83
-1.5 m -5.0 ft	kg lb	*7750 *17,350	*7750 *17,350	*13 950 *31,800	*13 950 *31,800	*11 600 *25,100	7400 15,900	7900 16,950	4650 9950			5300 11,650	3150 6900	7.71 25.26
-3.0 m -10.0 ft	kg lb			*14 950 *32,350	*14 950 *32,350	*10 350 *22,300	7550 16,200	*7150 *15,150	4750 10,200			*5150 *11,050	4450 9950	6.40 20.82

* 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.

M2.5D STICK – 2500 mm (8'2")

BUCKET – 1.4 m³ (1.8 yd³)

UNDERCARRIAGE – Standard

SHOES – 600 mm (24") triple grouser

BOOM – 5300 mm (17'5")

		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											*3500 *7800	*3500 *7800	6.85 22.07
6.0 m 20.0 ft	kg lb							*5400 *11,800	4950 *10,600			*3350 *7300	2900 6450	8.01 26.09
4.5 m 15.0 ft	kg lb					*6900 *14,850	*6900 *14,850	*5950 *12,950	4750 10,150			*3350 *7300	2350 5200	8.65 28.31
3.0 m 10.0 ft	kg lb					*8850 *19,100	7450 15,950	*6850 *14,800	4500 9650	4600 9850	2900 6150	3450 7550	2100 4600	8.92 29.26
1.5 m 5.0 ft	kg lb					*10 750 *23,150	6750 14,550	6650 14,300	4200 9000	4500 9600	2800 5950	3400 7450	2050 4500	8.87 29.10
Ground Line	kg lb					10 500 22,500	6400 13,700	6450 13,800	4000 8550	4400 9400	2700 5750	3600 7950	2200 4800	8.48 27.83
-1.5 m -5.0 ft	kg lb	*7750 *17,350	*7750 *17,350	*13 950 *31,800	12 750 27,300	10 400 22,250	6300 13,450	6350 13,600	3950 8400			4300 9450	2650 5850	7.71 25.26
-3.0 m -10.0 ft	kg lb			*15 000 *32,400	13 150 28,100	*10 400 *22,350	6400 13,750	6450 13,850	4000 8650			*5200 *11,150	3800 8500	6.40 20.82

* 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.