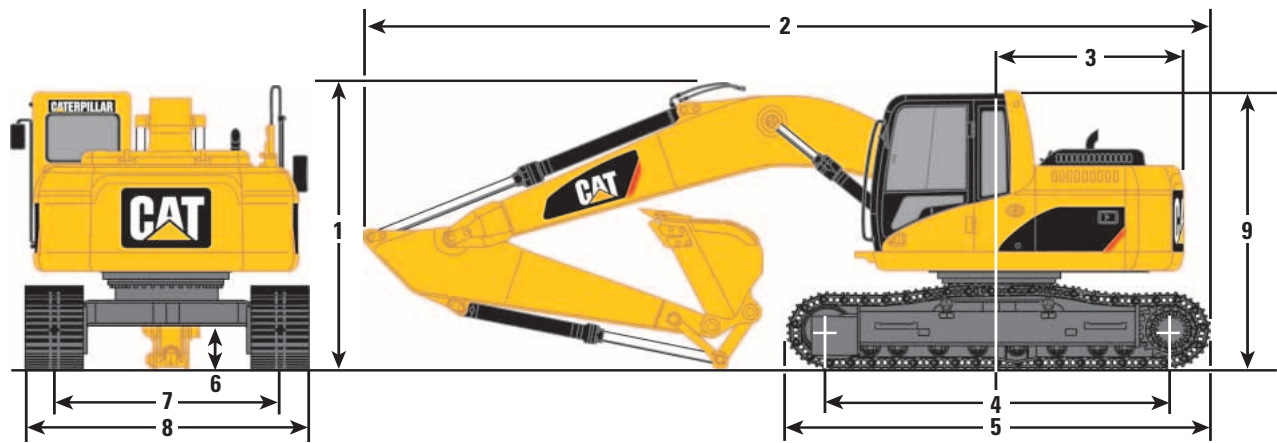


320D LRR Hydraulic Excavator

Dimensions

All dimensions are approximate.



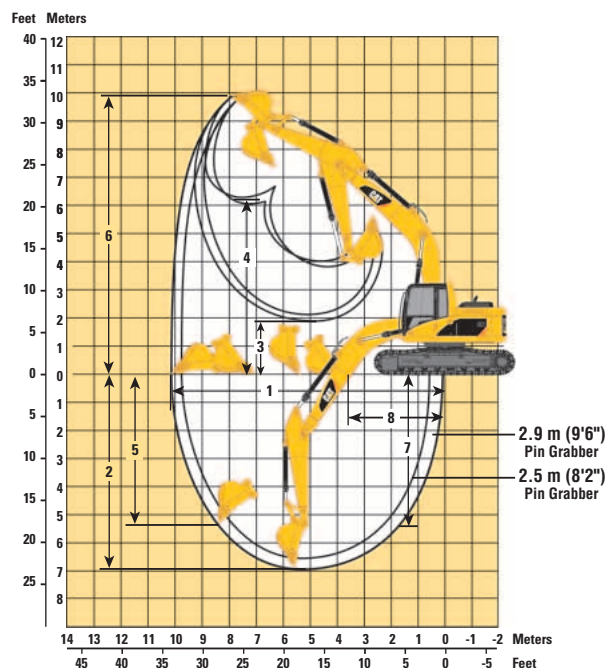
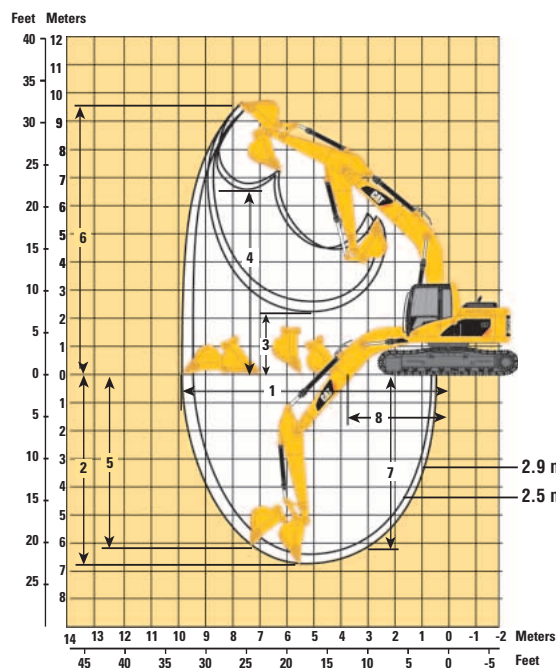
Boom Options	Reach 5.68 m (18'7")	Reach 5.68 m (18'7")
Stick Options	R2.9B1 m (9'6") Std/SA	R2.5B1 m (8'2") Std/SA
1 Shipping Height	3030 mm (9'11")	3050 mm (10'0")
2 Shipping Length	8790 mm (28'10")	8790 mm (28'10")
3 Tail Swing Radius	2000 mm (6'7")	2000 mm (6'7")
4 Length to Center of Rollers Long	3650 mm (12'0")	3650 mm (12'0")
5 Track Length Long	4455 mm (14'7")	4455 mm (14'7")
6 Ground Clearance	450 mm (1'6")	450 mm (1'6")
7 Track Gauge Long	2380 mm (7'10")	2380 mm (7'10")
8 Transport Width Long	700 mm Shoes 3080 mm (10'1")	600 mm Shoes 2980 mm (9'9")
9 Cab Height	2950 mm (9'8")	2950 mm (9'8")

* Removing the bucket and quick coupler changes the shipping height to 3390 mm (11'1").

Note: All numbers are approximate.

320D LRR Hydraulic Excavator

Working Ranges



Boom	Reach 5.68 m (18'7")	Reach 5.68 m (18'7")
Stick Length	R2.9B1 m (9'6")	R2.5B1 m (8'2")
Bucket	1.0 m ³ (1.31 yd ³)	1.0 m ³ (1.31 yd ³)
1 Maximum Reach at Ground Level	9860 (32'4")	9460 (31'0")
2 Maximum Digging Depth	6720 (22'1")	6300 (20'8")
3 Minimum Loading Height	2170 (7'1")	2590 (8'6")
4 Maximum Loading Height	6490 (21'4")	6290 (20'8")
5 Maximum Vertical Wall Digging Depth	6060 (19'11")	5650 (18'6")
6 Maximum Cutting Height	9490 (31'2")	9290 (30'6")
7 Maximum Depth Cut for 2440 m (8') Level Bottom	6060 (19'11")	5650 (18'6")
8 Minimum Front Swing Radius	3660 (12'0")	3710 (12'2")

Boom	Reach 5.68 m (18'7")	Reach 5.68 m (18'7")
Stick Length	R2.9B1 m (9'6")	R2.5B1 m (8'2")
Bucket	Pin Grabber Quick Coupler with 1.0 m ³ (1.31 yd ³)	Pin Grabber Quick Coupler with 1.0 m ³ (1.31 yd ³)
1 Maximum Reach at Ground Level	10 120 (33'2")	9730 (31'11")
2 Maximum Digging Depth	6980 (22'11")	6560 (21'6")
3 Minimum Loading Height	1910 (6'3")	2330 (7'8")
4 Maximum Loading Height	6230 (20'5")	6030 (19'9")
5 Maximum Vertical Wall Digging Depth	5380 (17'8")	4990 (16'4")
6 Maximum Cutting Height	9720 (31'11")	9520 (31'0")
7 Maximum Depth Cut for 2440 m (8') Level Bottom	5380 (17'8")	4990 (16'4")
8 Minimum Front Swing Radius	3660 (12'0")	3710 (12'2")

Note: All numbers are approximate

320D LRR Hydraulic Excavator

Bucket and Stick Forces

Bucket and Stick force are calculated with different buckets than those calculated for working range.

General Purpose Buckets	R2.9B1 Stick	R2.9B1 Stick w/Coupler	R2.5B1 Stick	R2.5B1 Stick w/Coupler
Bucket Digging Force (ISO)	140 kN (31,361 lb)	116 kN (26,145 lb)	140 kN (31,361 lb)	116 kN (26,145 lb)
Bucket Digging Force (SAE)	125 kN (28,079 lb)	108 kN (24,189 lb)	125 kN (28,079 lb)	108 kN (24,189 lb)
Stick Digging Force (ISO)	106 kN (23,897 lb)	100 kN (22,436 lb)	118 kN (26,460 lb)	110 kN (24,706 lb)
Stick Digging Force (SAE)	103 kN (23,223 lb)	98 kN (22,009 lb)	114 kN (25,628 lb)	107 kN (24,144 lb)

Power Buckets	R2.9B1 Stick	R2.9B1 Stick w/Coupler	R2.5B1 Stick	R2.5B1 Stick w/Coupler
Bucket Digging Force (ISO)	163 kN (36,711 lb)	124 kN (27,809 lb)	163 kN (36,711 lb)	124 kN (27,809 lb)
Bucket Digging Force (SAE)	144 kN (32,417 lb)	113 kN (25,493 lb)	144 kN (32,417 lb)	113 kN (25,493 lb)
Stick Digging Force (ISO)	109 kN (24,482 lb)	102 kN (22,863 lb)	121 kN (27,202 lb)	112 kN (25,224 lb)
Stick Digging Force (SAE)	106 kN (23,717 lb)	99 kN (22,301 lb)	117 kN (26,235 lb)	109 kN (24,527 lb)

Heavy Duty/Rock Buckets	R2.9B1 Stick	R2.9B1 Stick w/Coupler	R2.5B1 Stick	R2.5B1 Stick w/Coupler
Bucket Digging Force (ISO)	140 kN (31,563 lb)	117 kN (26,258 lb)	140 kN (31,563 lb)	117 kN (26,258 lb)
Bucket Digging Force (SAE)	125 kN (28,079 lb)	107 kN (24,144 lb)	125 kN (28,079 lb)	108 kN (24,212 lb)
Stick Digging Force (ISO)	106 kN (23,920 lb)	100 kN (22,458 lb)	118 kN (26,505 lb)	110 kN (24,729 lb)
Stick Digging Force (SAE)	103 kN (23,200 lb)	98 kN (21,964 lb)	114 kN (25,606 lb)	107 kN (24,100 lb)

320D LRR Hydraulic Excavator

Major Component Weights

Base machine with counterweight (without front linkage)		
Long undercarriage with 800 mm shoe	19 900 kg	43,872 lb
Two boom cylinders (each)	182 kg	401 lb
Counterweight		
Optional	6500 kg	14,330 lb
Standard	7125 kg	15,708 lb
Boom (includes lines, pins and stick cylinder)		
Reach boom 5.7 m (18'7")	1640 kg	3,616 lb
Stick (includes lines, pins, bucket cylinder and linkage)		
R2.9 (9'6")	818 kg	1,803 lb
R2.5 (8'2")	779 kg	1,717 lb
Undercarriage [includes carbody, swing bearing, track frame, rollers, idlers, steps, guards, final drive]		
L undercarriage with 800 mm shoe	7880 kg	17,372 lb

320D LRR Work Tool Matching Guide

Boom Options		Reach Boom 5.68 m (18'7")
Stick Options	R2.9B1 (9'6")	R2.5B1 (8'2")
Hydraulic Hammer	H115s/ H120Cs/ H130s	H115s/ H120Cs/ H130s
Vibratory Plate Compactor	CVP110	CVP110
Muti-Processor	MP15	MP15
360 Scrap Shear	S320	S320
Trash Grapple	2.7 m³ (3.5 yd³)	2.7 m³ (3.5 yd³)
Contractor's Grapple	yes	yes
Hydraulic Thumb	yes	yes
Dedicated Quick Coupler	yes	yes
Pin-Grabber Quick Coupler	yes	yes

320D LRR Hydraulic Excavator

320D LRR Bucket Options

	Adapter	Capacity		Width		Tip Radius		Weight (without tips)		Teeth						
		m³	yd³	mm	in	mm	in	kg	lb		Qty	R2.9B1	R2.9B1		R2.5B1	
													w/QC	R2.5B1	w/QC	
B Family																
General Purpose (GP)	K80	0.55	0.72	610	24	1565	61.6	629	1,387	3	●	●	●	●		
	K80	0.75	0.98	762	30	1565	61.6	718	1,583	4	●	●	●	●		
	K80	0.95	1.24	914	36	1565	61.6	790	1,742	5	●	●	●	●		
	K80	1.17	1.53	1067	42	1565	61.6	852	1,878	5	◐	◐	●	◐		
	K80	1.39	1.82	1219	48	1565	61.6	926	2,041	6	○	○	◐	○		
	K80	1.57	2.05	1372	54	1565	61.6	1000	2,205	6	◐	◐	○	◐		
Heavy Duty (HD)	K90	0.47	0.61	610	24	1578	62.1	650	1,433	3	●	●	●	●		
	K90	0.64	0.84	762	30	1578	62.1	743	1,638	4	●	●	●	●		
	K90	0.82	1.07	914	36	1578	62.1	813	1,792	5	●	●	●	●		
	K90	1.00	1.31	1067	42	1578	62.1	866	1,909	5	●	●	●	●		
	K90	1.19	1.56	1219	48	1578	62.1	956	2,108	6	◐	○	●	◐		
	K90	1.38	1.80	1372	54	1578	62.1	1030	2,271	6	○	◐	◐	○		
Heavy Duty Rock (HDR)	K90	0.54	0.70	610	24	1578	62.1	696	1,534	3	●	●	●	●		
	K90	0.77	1.00	762	30	1578	62.1	781	1,722	4	●	●	●	●		
	K90	0.84	1.10	914	36	1578	62.1	863	1,903	5	●	●	●	●		
	K90	1.07	1.40	1067	42	1578	62.1	933	2,057	5	●	◐	●	●		
Heavy Duty Power (HDP)	K90	0.79	1.03	914	36	1458	57.4	811	1,788	5	●	●	●	●		
	K90	0.96	1.26	1067	42	1458	57.4	875	1,929	5	●	●	●	●		
	K90	1.14	1.49	1219	48	1458	57.4	954	2,103	6	◐	◐	●	◐		
Ditch Cleaning (DC)	n/a	1.02	1.33	1524	60	1139	44.8	726	1,601	0	●	●	●	●		
	n/a	1.24	1.62	1830	72	1139	44.8	823	1,814	0	◐	◐	●	◐		

Assumptions for maximum material density rating:

1. Front Linkage fully extended at ground line
2. Machine positioned 90 degrees over the side
3. Bucket curled
4. 100% Bucket Fill Factor

Please consult with your Caterpillar dealer personnel for optimum selection of buckets and work tools that best match your application.

- 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 (3,500 lb/yd³) max material density
- ◐ 1800 kg/m³ (3,000 lb/yd³) max material density
- 1500 kg/m³ (2,500 lb/yd³) max material density
- ◑ 1200 kg/m³ (2,000 lb/yd³) max material density
- Not Recommended

320D LRR Hydraulic Excavator

Reach Boom Lift Capacities for 7 Metric Ton Counterweight



Load Point
Height



Load Radius
Over Front



Load Radius
Over Side



Load at
Maximum Reach

STICK – 2.9 m (9'6")

BUCKET – No Bucket, Bare Quick Coupler

UNDERCARRIAGE – Long

SHOES – 800 mm (32") triple grouser

BOOM – 5.7 m (18'7")

HEAVY LIFT – ON

		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											*3200 *7,150	*3200 *7,150	6.60 21.29
6.0 m 20.0 ft	kg lb									*3700	*3700	*3000 *6,600	*3000 *6,600	7.67 24.97
4.5 m 15.0 ft	kg lb							*5100 *11,050	*5100 *11,050	*4800 *10,500	3800 8,150	*2950 *6,500	*2950 *6,500	8.33 27.26
3.0 m 10.0 ft	kg lb			*11 650 *24,750	*11 650 *24,750	*7500 *16,150	*7500 *16,150	*5950 *12,900	5200 11,200	*5200 *11,350	3700 7,950	*3050 *6,650	2900 6,400	8.69 28.48
1.5 m 5.0 ft	kg lb					*9350 *20,200	7550 16,200	*6900 *14,950	4950 10,700	*5700 *12,250	3600 7,650	*3200 *7,050	2800 6,150	8.77 28.79
Ground Line	kg lb			*6850 *15,650	*6850 *15,650	*10 550 *22,800	7200 15,500	*7650 *16,500	4750 10,250	5650 12,200	3500 7,450	*3600 *7,850	2850 6,250	8.60 28.20
-1.5 m -5.0 ft	kg lb	*6250 *14,000	*6250 *14,000	*10 400 *23,600	*10 400 *23,600	*10 850 *23,550	7100 15,200	7850 16,800	4650 10,050	5600 12,100	3450 7,350	*4200 *9,250	3050 6,750	8.14 26.67
-3.0 m -10.0 ft	kg lb	*10 350 *23,250	*10 350 *23,250	*15 150 *32,750	13 800 29,550	*10 400 *22,450	7100 15,250	*7650 *16,500	4600 9,950			*5400 *11,950	3550 7,850	7.35 23.99
-4.5 m -15.0 ft	kg lb			*12 550 *26,950	*12 550 *26,950	*8850 *18,900	7250 15,600	*6200	4800			*6000 *13,250	4750 10,600	6.09 19.72

* 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.



Load Point
Height



Load Radius
Over Front



Load Radius
Over Side



Load at
Maximum Reach

STICK – 2.9 m (9'6")

BUCKET – 0.82 m³ (1.07 yd³)

UNDERCARRIAGE – Long

SHOES – 800 mm (32") triple grouser

BOOM – 5.7 m (18'7")

HEAVY LIFT – ON

		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											*2000 *4,450	*2000 *4,450	7.84 25.38
6.0 m 20.0 ft	kg lb									*3650	3500	*1900 *4,200	*1900 *4,200	8.81 28.74
4.5 m 15.0 ft	kg lb							*4700 *10,200	*4700 *10,200	*4400 *9,600	3450 7,350	*1900 *4,150	*1900 *4,150	9.38 30.71
3.0 m 10.0 ft	kg lb			*11 300 *24,000	*11 300 *24,000	*7150 *15,350	*7150 *15,350	*5550 *12,050	4900 10,500	*4800 *10,450	3350 7,200	*1950 *4,300	*1950 *4,300	9.64 31.61
1.5 m 5.0 ft	kg lb					*9000 *19,350	7200 15,500	*6500 *14,050	4650 9,950	*5300 *11,450	3250 6,900	*2100 *4,650	2200 4,550	9.61 31.54
Ground Line	kg lb			*6400 *14,650	*6400 *14,650	*10 150 *21,850	6850 14,650	*7250 *15,650	4450 9,500	5300 11,450	3150 6,700	*2400 *5,250	2200 4,800	9.30 30.52
-1.5 m -5.0 ft	kg lb	*5900 *13,200	*5900 *13,200	*9950 *22,600	*9950 *22,600	*10 450 *22,600	6750 14,400	7500 16,100	4350 9,300	5250 11,300	3100 6,600	*2800 *6,200	2500 5,400	8.68 28.44
-3.0 m -10.0 ft	kg lb	*9950 *22,300	*9950 *22,300	*14 650 *31,700	13 400 28,650	*9950 *21,550	6750 14,450	*7250 *15,600	4350 9,300			*3600 *8,000	3100 6,800	7.65 24.97
-4.5 m -15.0 ft	kg lb			*12 150 *26,000	*12 150 *26,000	*8450 *18,050	6950 14,900	*5800	4500			*4000 *9,300	*4000 *9,300	6.02 19.59

* 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.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

320D LRR Hydraulic Excavator

Reach Boom Lift Capacities for 7 Metric Ton Counterweight



Load Point
Height



Load Radius
Over Front



Load Radius
Over Side



Load at
Maximum Reach

STICK – 2.5 m (8'2")

BUCKET – No Bucket, Bare Quick Coupler

UNDERCARRIAGE – Long

SHOES – 800 mm (32") triple grouser

BOOM – 5.7 m (18'7")

HEAVY LIFT – ON

		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							*4150 *10,850	*4150 *10,850			*3850 *8,600	*3850 *8,600	6.06 19.49
6.0 m 20.0 ft	kg lb							*4950 *10,850	*4950 *10,850			*3550 *7,850	*3550 *7,850	7.21 23.47
4.5 m 15.0 ft	kg lb							*5450 *11,850	5350 11,600	*5100 *10,950	3750 8,050	*3500 *7,700	3450 7,550	7.92 25.89
3.0 m 10.0 ft	kg lb					*8100 *17,400	7950 17,050	*6300 *13,650	5150 11,100	*5450 *11,900	3650 7,850	*3600 *7,900	3150 6,850	8.29 27.18
1.5 m 5.0 ft	kg lb					*9800 *21,150	7450 16,000	*7150 *15,500	4900 10,550	5800 12,350	3550 7,650	*3850 *8,450	3000 6,600	8.38 27.49
Ground Line	kg lb			*6100 *14,000	*6100 *14,000	*10 750 *23,250	7100 15,400	*7800 17,000	4750 10,200	5650 12,200	3600 7,450	*4300 *9,500	3050 6,750	8.19 26.88
-1.5 m -5.0 ft	kg lb	*6750 *15,050	*6750 *15,050	*10 950 *24,850	*10 950 *24,850	*10 850 *23,450	7100 15,200	7850 16,800	4700 10,050	5600 12,150	3450 7,400	*5150 *11,350	3350 7,300	7.71 25.26
-3.0 m -10.0 ft	kg lb	*11 750 *26,350	*11 750 *26,350	*14 350 *31,050	13 900 29,800	*10 100 *21,800	7150 15,300	*7450 *16,000	4700 10,150			*6150 *13,550	3950 8,700	6.87 22.42
-4.5 m -15.0 ft	kg lb			*11 350 *24,250	*11 350 *24,250	*8100 *17,200	7350 15,800					*6200 *13,650	5500 12,500	5.50 17.77

* 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.



Load Point
Height



Load Radius
Over Front



Load Radius
Over Side



Load at
Maximum Reach

STICK – 2.5 m (8'2")

BUCKET – 0.82 m³ (1.07 yd³)

UNDERCARRIAGE – Long

SHOES – 800 mm (32") triple grouser

BOOM – 5.7 m (18'7")

HEAVY LIFT – ON

		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											*2400 *5,300	*2400 *5,300	7.32 23.67
6.0 m 20.0 ft	kg lb							*4550 *9,950	*4550 *9,950			*2250 *5,000	*2250 *5,000	8.37 27.29
4.5 m 15.0 ft	kg lb							*5050 *11,000	5050 10,900	*4700 *10,250	3400 7,250	*2250 *4,950	*2250 *4,950	8.98 29.38
3.0 m 10.0 ft	kg lb					*7700 *16,550	7650 16,400	*5900 *12,800	4850 10,350	*5050 *11,000	3350 7,100	*2350 *5,150	2300 5,000	9.25 30.32
1.5 m 5.0 ft	kg lb					*9400 *20,250	7100 15,200	*6800 *14,650	4600 9,850	5400 11,650	3200 6,900	*2550 *5,550	2300 4,950	9.22 30.25
Ground Line	kg lb			*5700 *13,100	*5700 *13,100	*10 300 *22,300	6800 14,550	*7400 *15,950	4400 9,450	5300 11,450	3150 6,700	*2850 *6,200	2400 5,200	8.89 29.18
-1.5 m -5.0 ft	kg lb	*6400 *14,350	*6400 *14,350	*10 500 *23,850	*10 500 *23,850	*10 400 *22,500	6750 14,400	7500 16,100	4350 9,300	5300 11,400	3100 6,650	*3350 *7,400	2700 6,000	8.23 26.97
-3.0 m -10.0 ft	kg lb	*11 350 *25,450	*11 350 *25,450	*13 850 *30,000	13 500 28,850	*9650 *20,900	6800 14,550	*7050 *15,100	4400 9,400			*4350 *9,600	3500 7,700	7.13 23.25
-4.5 m -15.0 ft	kg lb			*10 900 *23,350	*10 900 *23,350	*7700 *16,350	7050 15,150					*5850 *12,800	5200 11,800	5.50 17.76

* 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.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

320D LRR Hydraulic Excavator

Reach Boom Lift Capacities for 6 Metric Ton Counterweight



Load Point
Height



Load Radius
Over Front



Load Radius
Over Side



Load at
Maximum Reach

STICK – 3.9 m (12'10")

BUCKET – 0.82 m³ (1.07 yd³)

UNDERCARRIAGE – Long

SHOES – 800 mm (32") triple grouser

BOOM – 5.7 m (18'9")

HEAVY LIFT – ON

	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)		9.0 m (30.0 ft)		10.5 m (35.0 ft)				m ft
9.0 m 30.0 ft	kg lb																
7.5 m 25.0 ft	kg lb								*2900 *5,850	*2900 *5,850					*1550 *3,450	*1550 *3,450	8.94 29.05
6.0 m 20.0 ft	kg lb								*3300 *7,250	*3300 *7,250					*1500 *3,250	*1500 *3,250	9.78 31.96
4.5 m 15.0 ft	kg lb								*3600 *7,850	3450 7,300	*2750 *5,250	2350 5,000			*1450 *3,200	*1450 *3,200	10.29 33.71
3.0 m 10.0 ft	kg lb							*4600 *10,000	*4600 *10,000	3300 7,050	*3650 *7,300	2300 4,900			*1550 *3,350	*1550 *3,350	10.52 34.52
1.5 m 5.0 ft	kg lb			*11 950 *27,200	*11 950 *27,200	*7650 *16,450	7250 15,600	*5650 *12,250	4600 9,800	*4700 *10,150	3150 6,700	3900 8,350	2250 4,750		*1650 *3,600	*1650 *3,600	10.50 34.46
Ground Line	kg lb			*7450 *17,150	*7450 *17,150	*9250 *19,950	6750 14,450	*6600 *14,250	4300 9,250	5200 11,100	3000 6,400	3850 8,200	2150 4,600		*1850 *4,050	1700 3,750	10.23 33.55
-1.5 m -5.0 ft	kg lb	*4800 *10,700	*4800 *10,700	*9050 *20,550	*9050 *20,550	*10 050 *21,750	6450 13,850	*7150 *15,500	4150 8,850	5050 10,850	2900 6,200	*3350 8,200	2100		*2150 *4,750	1900 4,150	9.67 31.69
-3.0 m -10.0 ft	kg lb	*7700 *17,300	*7700 *17,300	*12 400 *28,150	*12 400 *27,350	*10 150 *21,900	6400 13,700	7200 15,450	4050 8,750	5050 10,800	2850 6,150				*2700 *6,000	2250 5,000	8.78 28.69
-4.5 m -15.0 ft	kg lb	*11 400 *25,700	*11 400 *25,700	*13 950 *30,000	13 050 27,950	*9350 *20,100	6500 13,950	*6700 *14,350	4150 8,900						*3800 *8,500	3100 6,950	7.41 24.06
-6.0 m -20.0 ft	kg lb			*10 600 *22,350	*10 600 *22,350	*7150 *14,950	6750 14,600								*5050 *11,100	4750 10,950	5.66 18.13
-7.5 m -25.0 ft	kg lb																

* 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.



Load Point
Height



Load Radius
Over Front



Load Radius
Over Side



Load at
Maximum Reach

STICK – 2.9 m (9'7")

BUCKET – 0.82 m³ (1.07 yd³)

UNDERCARRIAGE – Long

SHOES – 800 mm (32") triple grouser

BOOM – 5.7 m (18'9")

HEAVY LIFT – ON

		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)		9.0 m (30.0 ft)				m ft
																
9.0 m 30.0 ft	kg lb															
7.5 m 25.0 ft	kg lb													*2000 *4,450	*2000 *4,450	7.84 25.38
6.0 m 20.0 ft	kg lb									*3650 *4,200	3500 *4,200			*1900 *4,200	*1900 *4,200	8.81 28.74
4.5 m 15.0 ft	kg lb							*4700 *10,200	*4700 *10,200	*4400 *9,600	3400 7,250			*1900 *4,150	*1900 *4,150	9.38 30.71
3.0 m 10.0 ft	kg lb			*11 300 *24,000	*11 300 *24,000	*7150 *15,350	*7150 *15,350	*5550 *12,050	4850 10,400	*4800 *10,450	3300 7,100			*1950 *4,300	*1950 *4,300	9.64 31.61
1.5 m 5.0 ft	kg lb					*9000 *19,350	7100 15,300	*6500 *14,050	4600 9,850	*5300 *11,450	3200 6,800			*2100 *4,650	2050 4,500	9.61 31.54
Ground Line	kg lb			*6400 *14,650	*6400 *14,650	*10 150 *21,850	6750 14,500	*7250 *15,650	4400 9,400	5250 11,300	3100 6,600			*2400 *5,250	2150 4,750	9.30 30.52
-1.5 m -5.0 ft	kg lb	*5900 *13,200	*5900 *13,200	*9950 *22,600	*9950 *22,600	*10 450 *22,600	6650 14,250	7400 15,900	4300 9,200	5200 11,200	3050 6,500			*2800 *6,200	2450 5,350	8.68 28.44
-3.0 m -10.0 ft	kg lb	*9950 *22,300	*9950 *22,300	*14 650 *31,700	13 250 28,350	*9950 *21,550	6650 14,300	*7250 *15,600	4300 9,200					*3600 *8,000	3050 6,700	7.65 24.97
-4.5 m -15.0 ft	kg lb			*12 150 *26,000	*12 150 *26,000	*8450 *18,050	6850 14,750	*5800	4450					*4000 *9,300	*4000 *9,300	6.02 19.59
-6.0 m -20.0 ft	kg lb															

* 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.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

320D LRR Hydraulic Excavator

Reach Boom Lift Capacities for 6 Metric Ton Counterweight



Load Point
Height



Load Radius
Over Front



Load Radius
Over Side



Load at
Maximum Reach

STICK – 2.5 m (8'3")

BUCKET – 0.82 m³ (1.07 yd³)

UNDERCARRIAGE – Long

SHOES – 800 mm (32") triple grouser

BOOM – 5.7 m (18'9")

HEAVY LIFT – ON

	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)		9.0 m (30.0 ft)				m ft
															
9.0 m 30.0 ft	kg														
7.5 m 25.0 ft	kg												*2400	*2400	7.32
6.0 m 20.0 ft	kg						*4550	*4550					*5,300	*5,300	23.67
4.5 m 15.0 ft	kg						*9,950	*9,950					*2250	*2250	8.37
3.0 m 10.0 ft	kg												*5,000	*5,000	27.29
1.5 m 5.0 ft	kg								*4700	3350			*2250	*2250	8.98
Ground Line	kg						*11,000	10,750	*10,250	7,150			*4,950	*4,950	29.38
-1.5 m -5.0 ft	kg												*2350	2250	9.25
-3.0 m -10.0 ft	kg						*16,550	16,250	*12,800	10,250	*11,000	7,000	*5,150	4,950	30.32
-4.5 m -15.0 ft	kg														
-6.0 m -20.0 ft	kg														

* 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.



Load Point
Height



Load Radius
Over Front



Load Radius
Over Side



Load at Maximum
Reach – Coupler Curled

STICK – 2.9 m (9'7")

BUCKET – No Bucket, Bare Quick Coupler

UNDERCARRIAGE – Long

SHOES – 800 mm (32") triple grouser

BOOM – 5.7 m (18'9")

HEAVY LIFT – ON

	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)		9.0 m (30.0 ft)				m ft
															
9.0 m 30.0 ft	kg														
7.5 m 25.0 ft	kg												*3200	*3200	6.60
6.0 m 20.0 ft	kg								*3700	*3700			*7,150	*7,150	21.29
4.5 m 15.0 ft	kg												*3000	*3000	7.67
3.0 m 10.0 ft	kg												*6,600	*6,600	24.97
1.5 m 5.0 ft	kg												*2950	*2950	8.33
Ground Line	kg												*6,500	*6,500	27.26
-1.5 m -5.0 ft	kg														
-3.0 m -10.0 ft	kg														
-4.5 m -15.0 ft	kg														
-6.0 m -20.0 ft	kg														

* 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.

320D LRR Hydraulic Excavator

Reach Boom Lift Capacities for 6 Metric Ton Counterweight



STICK – 2.5 m (8'3")

BUCKET – No Bucket, Bare Quick Coupler

UNDERCARRIAGE – Long

SHOES – 800 mm (32") triple grouser

BOOM – 5.7 m (18'9")

HEAVY LIFT – ON

	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)		9.0 m (30.0 ft)				m ft
															
9.0 m 30.0 ft	kg														
	lb														
7.5 m 25.0 ft	kg						*4150	*4150					*3850	*3850	6.06
	lb												*8,600	*8,600	19.49
6.0 m 20.0 ft	kg						*4950	*4950					*3550	*3550	7.21
	lb						*10,850	*10,850					*7,850	*7,850	23.47
4.5 m 15.0 ft	kg						*5450	5300	*5100	3700			*3500	3400	7.92
	lb						*11,850	11,450	*10,950	7,950			*7,700	7,450	25.89
3.0 m 10.0 ft	kg				*8100	7850	*6300	5100	*5450	3600			*3600	3100	8.29
	lb				*17,400	16,850	*13,650	10,950	*11,900	7,750			*7,900	6,750	27.18
1.5 m 5.0 ft	kg				*9800	7350	*7150	4850	5700	3500			*3850	2950	8.38
	lb				*21,150	15,800	*15,500	10,450	12,200	7,550			*8,450	6,500	27.49
Ground Line	kg			*6100	*6100	*10 750	7050	*7800	4700	5600	3450		*4300	3000	8.19
	lb			*14,000	*14,000	*23,250	15,200	16,800	10,100	12,050	7,350		*9,500	6,650	26.88
-1.5 m -5.0 ft	kg	*6750	*6750	*10 950	*10 950	*10 850	7000	7750	4650	5550	3400		*5150	3300	7.71
	lb	*15,050	*15,050	*24,850	*24,850	*23,450	15,000	16,600	9,950	12,000	7,300		*11,350	7,200	25.26
-3.0 m -10.0 ft	kg	*11 750	*11 750	*14 350	13 750	*10 100	7050	*7450	4650				*6150	3900	6.87
	lb	*26,350	*26,350	*31,050	29,450	*21,800	15,150	*16,000	10,050				*13,550	8,600	22.42
-4.5 m -15.0 ft	kg			*11 350	*11 350	*8100	7250						*6200	5450	5.50
	lb			*24,250	*24,250	*17,200	15,650						*13,650	12,350	17.77
-6.0 m -20.0 ft	kg														
	lb														

* 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.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.