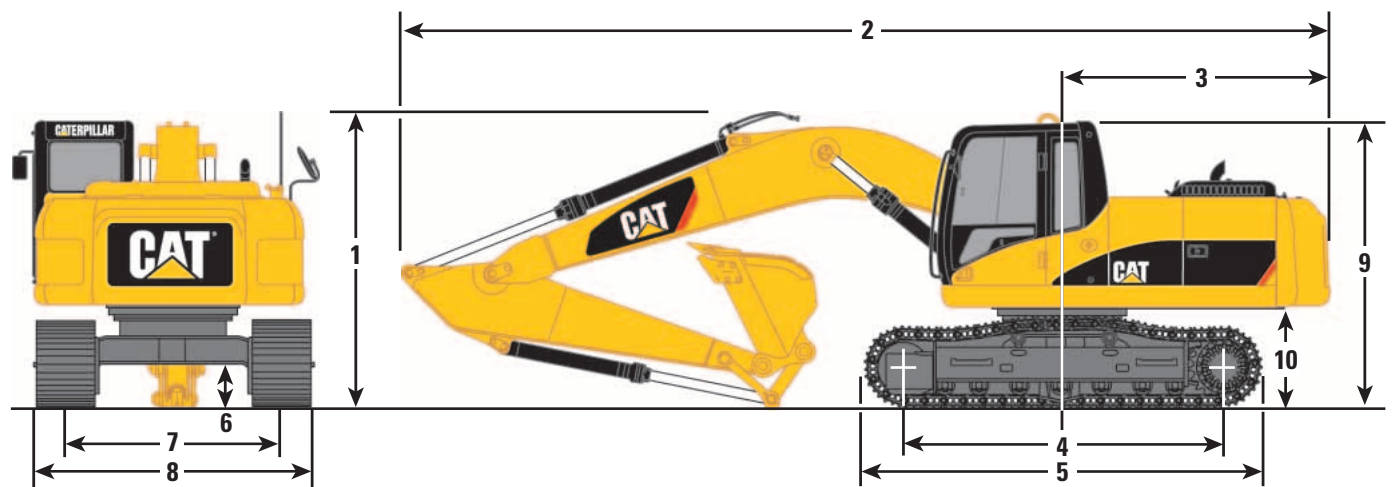


324D/324D L Hydraulic Excavator

Dimensions

All dimensions are approximate.



Boom Options	Reach Boom 5.9 m			Mass Boom 5.3 m	
Stick Options	R3.6B1	R2.95CB1	R2.5CB1	M2.5DB	M2.0DB
1 Shipping height**	3430 mm	3170 mm	3300 mm	3450 mm	3320 mm
2 Shipping length	10 050 mm	10 060 mm	10 100 mm	9480 mm	9610 mm
3 Tail swing radius	2940 mm	2940 mm	2940 mm	2940 mm	2940 mm
Undercarriage	Fixed Gauge			Long Fixed Gauge	
4 Length to center of rollers	3450 mm			3830 mm	
5 Track length	4250 mm			4630 mm	
6 Ground clearance***	470 mm			470 mm	
7 Track gauge	2390 mm			2590 mm	
8 Track width*	2990 mm			3390 mm	
9 Cab height**	2980 mm			2980 mm	
10 Counterweight clearance***	1060 mm			1060 mm	

* Track width shown is for 600 mm track shoes for Fixed Gauge and 800 mm for Long Fixed Gauge.

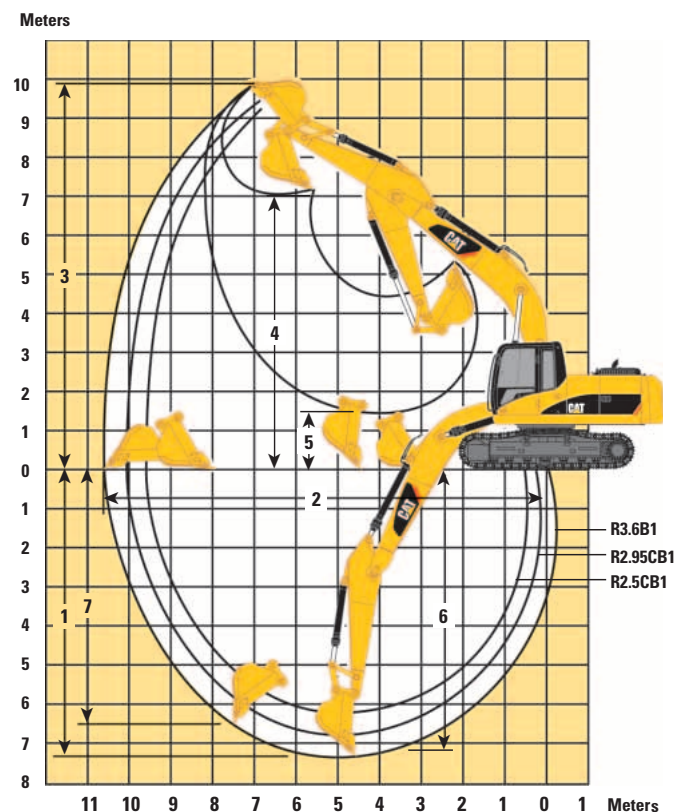
** Includes 30 mm shoe lug height.

*** Without 30 mm shoe lug height.

324D/324D L Hydraulic Excavator

Reach Excavator Working Ranges

Reach (R) boom configuration



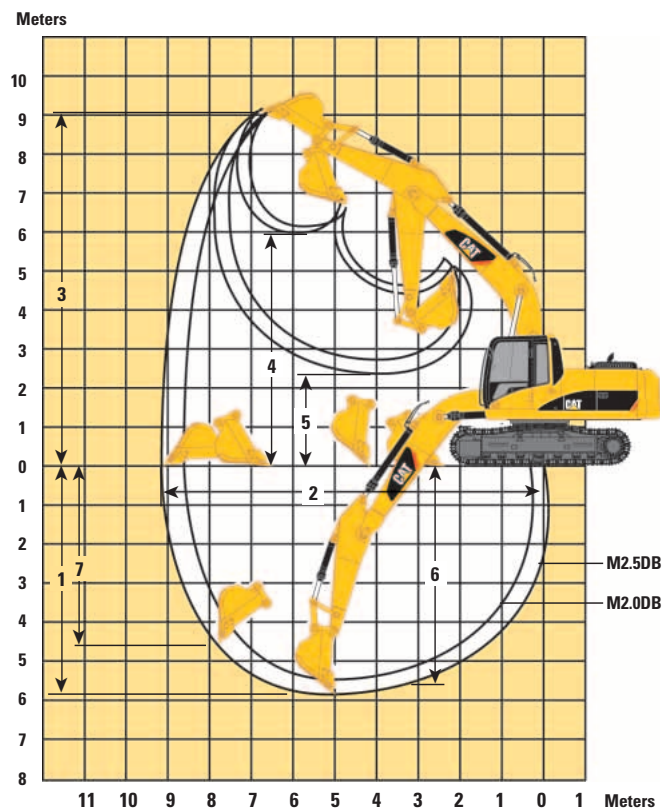
Boom Options

Stick Options

	R3.6B1	R2.95CB1	R2.5CB1	M2.5DB	M2.0DB
1 Maximum digging depth	7300 mm	6740 mm	6290 mm	5910 mm	5410 mm
2 Maximum reach at ground level	10 550 mm	10 030 mm	9620 mm	9110 mm	8650 mm
3 Maximum cutting height	9880 mm	9660 mm	9460 mm	9060 mm	8830 mm
4 Maximum loading height	7070 mm	6700 mm	6500 mm	5970 mm	5750 mm
5 Minimum loading height	1910 mm	2470 mm	2930 mm	2360 mm	2860 mm
6 Maximum depth cut for 2240 mm level bottom	7140 mm	6560 mm	6080 mm	5720 mm	5190 mm
7 Maximum vertical wall digging depth	6540 mm	5830 mm	5390 mm	4590 mm	4120 mm
Bucket digging force (SAE)	131 kN	154 kN	154 kN	198 kN	198 kN
(ISO)	149 kN	174 kN	174 kN	222 kN	222 kN
Stick digging force (SAE)	105 kN	118 kN	138 kN	135 kN	154 kN
(ISO)	108 kN	122 kN	143 kN	140 kN	160 kN

Mass Excavator Working Ranges

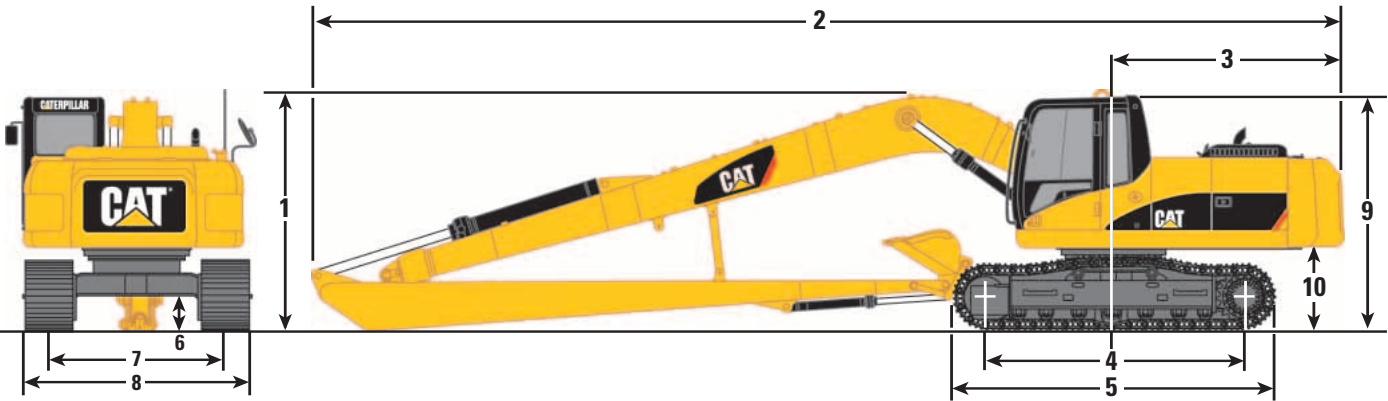
Mass (M) boom configuration



324D/324D L Hydraulic Excavator

Dimensions

All dimensions are approximate.

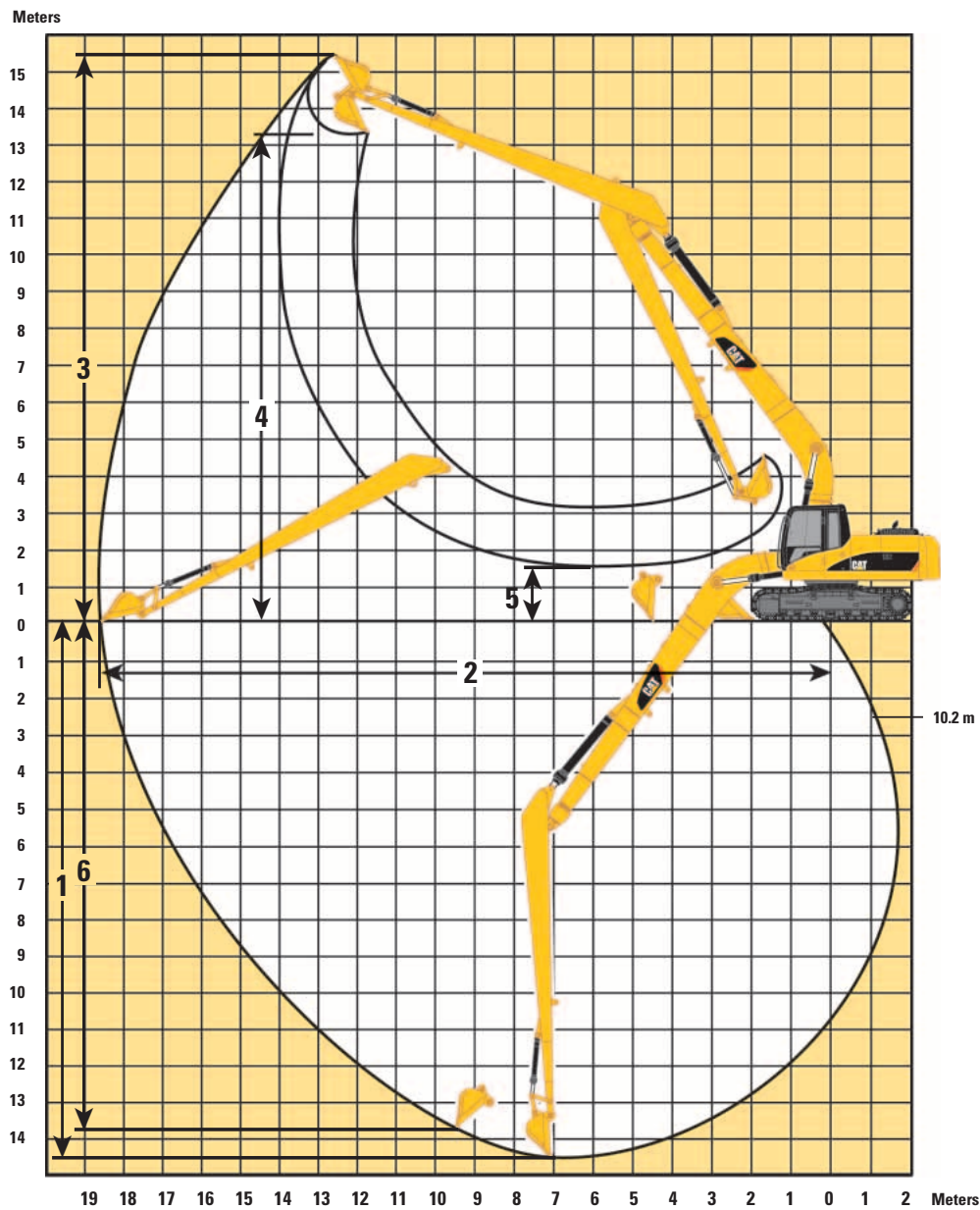


Boom Options		Super Long Reach Boom
Stick Options		10.2 m
1	Shipping height	3150 mm
2	Shipping length	14 340 mm
3	Tail swing radius	3000 mm
4	Length to center of rollers	3830 mm
5	Track length	4630 mm
6	Ground clearance	440 mm
7	Track gauge	2590 mm
8	Transport width	
	800 mm shoes (standard)	3390 mm
	700 mm shoes (optional)	3290 mm
	600 mm shoes (optional)	3190 mm
9	Cab height	2980 mm
10	Counterweight clearance	1060 mm

324D/324D L Hydraulic Excavator

Reach Excavator Working Ranges

Reach (R) boom configuration



Boom Options		Super Long Reach Boom
		10.2 m
Stick Options		7.85 m
Bucket Options		DC 0.61 m³
1	Maximum digging depth	14 594 mm
2	Maximum reach at ground level	18 603 mm
3	Maximum cutting height	15 411 mm
4	Maximum loading height	13 285 mm
5	Minimum loading height	1483 mm
6	Maximum vertical wall digging depth	13 922 mm

324D/324D L Hydraulic Excavator

Major Component Weights

			kg
Base machine with counterweight and 800 mm shoes (without front linkage)	With 600 mm shoe		19 450
	With 800 mm shoe		20 740
Two boom cylinders (each)			227
Counterweight			
Non-removal type			4520
Boom (includes lines, pins and stick cylinder)			
Reach boom			2033
Mass boom			2138
Stick (includes lines, pins, bucket cylinder and linkage)			
R3.6B1			1199
R2.95CB1			1208
R2.5CB1			1149
M2.5DB			1470
M2.0DB			1385
Track roller frame [includes frame, rollers, idlers, steps, guards, final drive, 800 mm shoes] – each	With 600 mm shoe		7950
	With 800 mm shoe		9240

324D Bucket Specifications and Compatibility

	Capacity*	Width	Tip Radius	Weight (w/o tips)	Teeth	Total Weight	Reach Stick					Mass Stick
	m³	mm	mm	kg	Qty	kg	R3.6B1	R2.95CB1	R2.5CB1	M2.5DB	M2.0DB	
B1 Buckets												
Excavation	0.9	1092	1488	647	5	647	●	●	●	—	—	
CB1 Buckets												
Excavation	1.0	1232	1555	822	5	822	◐	●	●	—	—	
	1.1	1320	1555	857	5	857	○	◐	◐	—	—	
	1.2	1420	1555	896	5	896	○	○	◐	—	—	
DB Buckets												
Excavation	1.4	1472	1660	1124	5	1124	—	—	—	○	●	
	1.5	1559	1660	1167	5	1167	—	—	—	○	◐	

324D L Bucket Specifications and Compatibility

	Capacity*	Width	Tip Radius	Weight (w/o tips)	Teeth	Total Weight	Reach Stick					Mass Stick
	m³	mm	mm	kg	Qty	kg	R3.6B1	R2.95CB1	R2.5CB1	M2.5DB	M2.0DB	
B1 Buckets												
Excavation	0.9	1092	1488	647	5	647	●	●	●	—	—	
CB1 Buckets												
Excavation	1.0	1232	1555	822	5	822	●	●	●	—	—	
	1.1	1320	1555	857	5	857	◐	●	●	—	—	
	1.2	1420	1555	896	5	896	◐	◐	●	—	—	
DB Buckets												
Excavation	1.4	1472	1660	1124	5	1124	—	—	—	◐	●	
	1.5	1559	1660	1167	5	1167	—	—	—	◐	◐	

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 max material density
- ◐ 1800 kg/m³ max material density
- 1500 kg/m³ max material density
- ∴ 1200 kg/m³ max material density
- Not Available

324D/324D L Hydraulic Excavator

324D/324D L Work Tool Matching Guide

Boom Options	Reach Boom 5.9 m			Mass Boom 5.3 m	
Stick Options	R3.6CB	R2.95CB	R2.5CB	M2.5DB	M2.0DB
Hydraulic Hammer	H115Cs/ H120Cs/ H130Ds	H115Cs/ H120Cs/ H130Ds	H115Cs/ H120Cs/ H130Ds	H115Cs/ H120Cs/ H130Ds	H115Cs/ H120Cs/ H130Ds
Vibratory Plate Compactor	CVP110	CVP110	CVP110	CVP110	CVP110
Multi-Processor	MP20	MP20	MP20	n/a	n/a
360 Scrap Shear	S320	S320	S320	n/a	n/a
Trash Grapple	2.7 m³	2.7 m³	2.7 m³	3.1 m³	3.1 m³
Contractors' Grapple	yes	yes	yes	n/a	n/a
Hydraulic Thumb	yes	yes	yes	n/a	n/a
Dedicated Quick Coupler	yes	yes	yes	yes	yes
Pin-Grabber Quick Coupler	yes	yes	yes	yes	yes

324D/324D L Hydraulic Excavator

Reach Boom Lift Capacities



Load Point
Height



Load Radius
Over Front



Load Radius
Over Side



Load at
Maximum Reach

R2.95B1 STICK – 2950 mm
BUCKET – 1.1 m³

UNDERCARRIAGE – Long
SHOES – 600 mm triple grouser

BOOM – 5900 mm

	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m					
														m
7.5 m	kg											*2900	*2900	8.12
6.0 m	kg									*4900	4100	*2850	*2850	9.04
4.5 m	kg							*6250	6050	*5700	4050	*2900	2550	9.58
3.0 m	kg					*9650	9100	*7350	5700	6200	3900	*3050	2350	9.81
1.5 m	kg					*11 850	8350	*8550	5350	6000	3700	*3300	2300	9.76
Ground Line	kg			*5500	*5500	*13 150	7900	8350	5100	5850	3550	*3700	2400	9.43
-1.5 m	kg	*5700	*5700	*9450	*9450	*13 350	7750	8200	4950	5750	3500	*4400	2700	8.80
-3.0 m	kg	*10 000	*10 000	*14 850	*14 850	*12 600	7800	8250	4950			5550	3400	7.77
-4.5 m	kg			*15 050	*15 050	*10 700	8050	*7600	5150			*5350	5150	6.16

* 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.

R2.5B1 STICK – 2500 mm
BUCKET – 1.2 m³

UNDERCARRIAGE – Long
SHOES – 600 mm triple grouser

BOOM – 5.9 m

	3.0 m		4.5 m		6.0 m		7.5 m					
											m	
7.5 m	kg					*5800	*5800			*4000	*4000	7.60
6.0 m	kg					*5950	*5950			*3900	3200	8.59
4.5 m	kg			*8050	*8050	*6700	5950	*6050	3950	*3950	2750	9.16
3.0 m	kg			*10 400	8900	*7800	5600	6150	3850	*4150	2550	9.40
1.5 m	kg			*12 400	8150	8600	5250	5950	3700	4100	2500	9.35
Ground Line	kg			*13 300	7800	8350	5050	5800	3550	4350	2600	9.00
-1.5 m	kg	*9900	*9900	*13 200	7750	8250	4950	5800	3500	4950	3000	8.33
-3.0 m	kg	*16 300	16 250	*12 150	7850	8300	5000			*5500	3900	7.22
-4.5 m	kg	*13 400	*13 400	*9750	8200					*7350	5750	5.64

* 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.

R2.95B1 STICK – 2950 mm
BUCKET – 1 m³

UNDERCARRIAGE – Standard
SHOES – 600 mm triple grouser

BOOM – 5900 mm

	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m					
													m	
7.5 m	kg										*2950	*2950	8.12	
6.0 m	kg								*4950	3650	*2850	2600	9.04	
4.5 m	kg						*6250	5400	5350	3600	*2900	2250	9.58	
3.0 m	kg				*9650	8050	*7400	5050	5200	3450	*3050	2050	9.81	
1.5 m	kg				11 650	7300	7250	4700	5000	3250	3200	2000	9.76	
Ground Line	kg			*5500	*5500	11 150	6900	6950	4450	4850	3100	3350	2100	9.43
-1.5 m	kg	*5750	*5750	*9450	*9450	10 950	6750	6800	4350	4800	3050	3750	2350	8.80
-3.0 m	kg	*10 050	*10 050	*14 850	13 700	11 050	6800	6850	4350			4650	3000	7.77
-4.5 m	kg			*15 050	14 200	*10 700	7050	7000	4500			*5400	4550	6.16

* 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.

324D/324D L Hydraulic Excavator

Mass Boom Lift Capacities



Load Point
Height



Load Radius
Over Front



Load Radius
Over Side



Load at
Maximum Reach

M2.5DB STICK – 2500 mm
BUCKET – 1.4 m³

UNDERCARRIAGE – Long
SHOES – 600 mm triple grouser

BOOM – 5300 mm

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				m
7.5 m	kg											*3500	*3500	6.95
6.0 m	kg							*6000	5900			*3300	*3300	8.05
4.5 m	kg							*6500	5750	*4700	3650	*3300	2800	8.66
3.0 m	kg					*9600	8950	*7500	5450	5850	3550	*3500	2550	8.92
1.5 m	kg					*11 700	8150	8450	5100	5700	3400	*3800	2500	8.87
Ground Line	kg			*8550	*8550	*12 900	7700	8200	4850	5600	3300	*4350	2650	8.49
–1.5 m	kg	*7950	*7950	*14 200	*14 200	*12 950	7550	8050	4750			*5300	3150	7.75
–3.0 m	kg	*14 250	*14 250	*17 000	16 050	*11 700	7700	8150	4850			*5850	4450	6.50
–4.5 m	kg					*8200	8150					*7450	7450	4.76

* 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.

Super Long Reach Boom Lift Capacities



Load Point
Height



Load Radius
Over Front



Load Radius
Over Side



Load at Maximum
Reach – Bucket Curled

BOOM – 10.2 m
STICK – 7.85 m

BUCKET – 1142 mm
0.60 m³
291 kg

SHOES – 800 mm triple grouser
UNDERCARRIAGE – Long
HEAVY LIFT – On

		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		13.5 m		15.0 m				m
12.0 m	kg															*980	*980	15.24
10.5 m	kg											*1630	*1630	*1710	*1710	*930	*930	16.16
9.0 m	kg											*1610	*1610	*1680	*1680	*900	*900	16.89
7.5 m	kg											*1730	*1730	*1710	*1710	*870	*870	17.01
6.0 m	kg											*1820	*1820	*1790	1680	*870	*870	17.62
4.5 m	kg									*2070	*2070	*1960	*1960	*1890	1600	*880	*880	17.99
3.0 m	kg					*2860	*2860	*2530	*2530	*2300	*2300	*2130	1910	*2010	1510	*910	880	18.22
1.5 m	kg	*5290	*5290	*4060	*4060	*3330	*3330	*2860	2820	*2540	2230	*2300	1780	*2140	1420	*930	860	18.32
Ground Line	kg	*6250	5670	*4690	4220	*3770	3260	*3180	2580	*2770	2060	*2480	1660	*2270	1330	*950	850	18.28
–1.5 m	kg	*6950	5140	*5220	3830	*4160	2980	*3470	2370	*2990	1910	*2650	1550	2240	1260	*1000	860	18.12
–3.0 m	kg	*7400	4820	*5600	3570	*4470	2770	*3710	2210	3090	1790	2580	1460	2180	1200	*1080	890	17.82
–4.5 m	kg	*7650	4670	*5850	3410	4550	2640	3650	2100	3000	1710	2520	1400	2140	1160	*1180	960	17.36
–6.0 m	kg	*7710	4630	5840	3340	4480	2570	3590	2040	2950	1660	2480	1370	2130	1150	*1310	1090	16.74
–7.5 m	kg	*7600	4670	5850	3350	4460	2550	3570	2030	2950	1650	2490	1380	2160	1180	*1500	1230	15.94
–9.0 m	kg	*7310	4800	*5780	3420	4510	2600	3610	2060	2990	1690	2550	1440			*1770	1480	14.92
–10.5 m	kg	*6800	4990	*5420	3550	*4430	2710	*3670	2160	*3010	1800					*2200	1870	13.63
–12.0 m	kg	*5970	5280	*4780	3770	*3870	2890	*3090	2350							*2590	*1930	11.96
–12.0 m	kg	*4620	*4620	*3630	*3630	*2700	*2700											

* 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.

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