

330D L

Hydraulic Excavator



Engine

Engine Model	Cat® C9 with ACERT™ Technology	
Net Flywheel Power	200 kW	268 hp

Weights

Operating Weight	36 151 kg	79,700 lb
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- Reach boom, R3.9DB (12 ft 6 in) Stick, 1.19 m³ (1.56 yd³) GP Bucket, 800 mm (32 in) Shoe

Engine

Engine Model	Cat C9 with ACERT™ Technology	
Net Flywheel Power	200 kW	268 hp
Net Power – ISO 9249	200 kW	268 hp
Net Power – SAE J1349	188 kW	252 hp
Net Power – EEC 80/1269	200 kW	268 hp
Bore	112 mm	4.4 in
Stroke	149 mm	5.87 in
Displacement	8.8 L	537 in ³

- The 330D L meets U.S. EPA Tier 3 and EU Stage IIIA exhaust emission requirements.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
- No engine power derating required below 2300 m (7,500 ft).

Weights

Operating Weight	36 151 kg	79,700 lb
------------------	-----------	-----------

- Reach boom, R3.9DB (12 ft 6 in) Stick, 1.19 m³ (1.56 yd³) GP Bucket, 800 mm (32 in) Shoe

Service Refill Capacities

Fuel Tank Capacity	620 L	163.8 gal
Cooling System	40 L	10.6 gal
Engine Oil	40 L	10.6 gal
Swing Drive	19 L	5 gal
Final Drive (each)	8 L	2.1 gal
Hydraulic System (including tank)	410 L	108.3 gal
Hydraulic Tank	175 L	46.2 gal

Swing Mechanism

Swing Speed	10 RPM	
Swing Torque	108.7 kN-m	80,142 lb ft

Drive

Maximum Drawbar Pull	300 kN	67,443 lb
Maximum Travel Speed	5 km/h	3.1 mph

Hydraulic System

Main Implement System – Maximum Flow (2x)	280 L/min	74 gal/min
Max. pressure – Equipment	35 000 kPa	5,076 psi
Max. pressure – Equipment – Heavy	36 000 kPa	5,221 psi
Max. pressure – Travel	35 000 kPa	5,076 psi
Max. pressure – Swing	28 000 kPa	4,061 psi
Pilot System – Maximum flow	43 L/min	11.4 gal/min
Pilot System – Maximum pressure	4000 kPa	565.7 psi
Boom Cylinder – Bore	150 mm	5.9 in
Boom Cylinder – Stroke	1440 mm	56.7 in
Stick Cylinder – Bore	170 mm	6.7 in
Stick Cylinder – Stroke	1738 mm	68.4 in
DB Family Bucket Cylinder – Bore	150 mm	5.9 in
DB Family Bucket Cylinder – Stroke	1151 mm	45.3 in
TB1 Family Bucket Cylinder – Bore	160 mm	6.3 in
TB1 Family Bucket Cylinder – Stroke	1356 mm	53.4 in

Sound Performance

Performance	ANSI/SAE J1166 OCT 98
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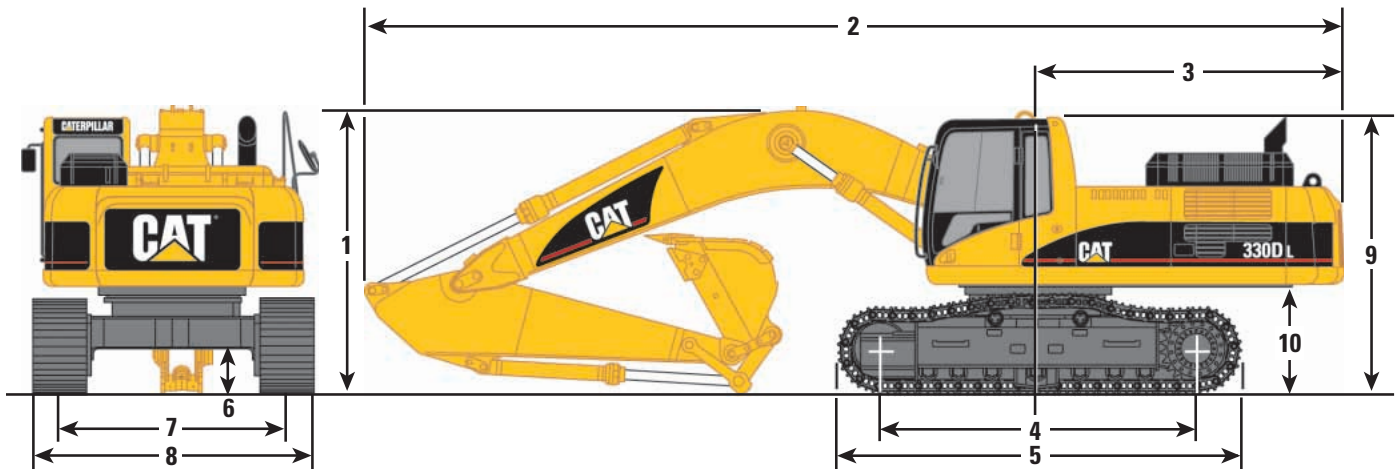
- When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 OCT 98, meets OSHA and MSHA requirements for operator sound exposure limits in effect at time of manufacture.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in noisy environment.

Standards

Brakes	SAE J1026 APR90
Cab/FOGS	SAE J1356 FEB88

Dimensions

All dimensions are approximate.



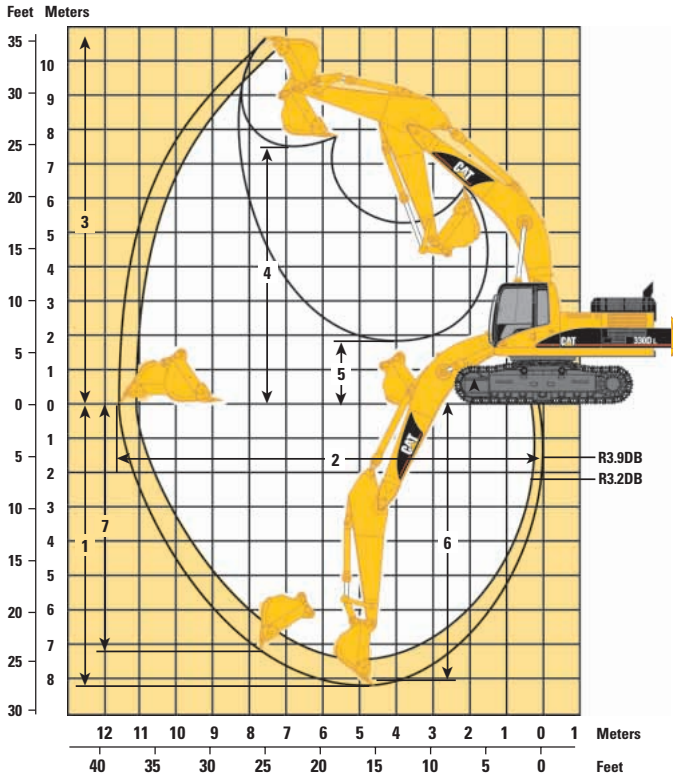
Boom Options	Reach Boom 6.5 m (21'4")		Mass Boom 6.18 m (20'3")
Stick Options	R3.9DB (12'10")	R3.2DB (10'6")	M2.55TB1 (8'4")
1 Shipping height*	3630 mm (11'11")	3350 mm (11'0")	3580 mm (11'9")
2 Shipping length	11 200 mm (36'9")	11 150 mm (36'7")	10 910 mm (35'10")
3 Tail swing radius	3500 mm (11'6")	3500 mm (11'6")	3500 mm (11'6")
4 Length to center of rollers	4040 mm (13'3")	4040 mm (13'3")	4040 mm (13'3")
5 Track length	5020 mm (16'6")	5020 mm (16'6")	5020 mm (16'6")
6 Ground clearance**	450 mm (1'6")	450 mm (1'6")	450 mm (1'6")
7 Track gauge	2590 mm (8'6")	2590 mm (8'6")	2590 mm (8'6")
8 Transport width			
800 mm (32") shoes (standard)	3390 mm (11'1")	3390 mm (11'1")	3390 mm (11'1")
700 mm (28") shoes (optional)	3290 mm (10'10")	3290 mm (10'10")	3290 mm (10'10")
850 mm (34") shoes (optional)	3440 mm (11'3")	3440 mm (11'3")	3440 mm (11'3")
9 Cab height	3140 mm (10'4")	3140 mm (10'4")	3140 mm (10'4")
10 Counterweight clearance*	1220 mm (4'0")	1220 mm (4'0")	1220 mm (4'0")

* Includes 30 mm (1³/₁₆ in) lug height. R3.9 increase to 3700 mm (12'2") with medium pressure and/or drain auxiliary lines.

** Without 30 mm (1³/₁₆ in) shoe lug height.

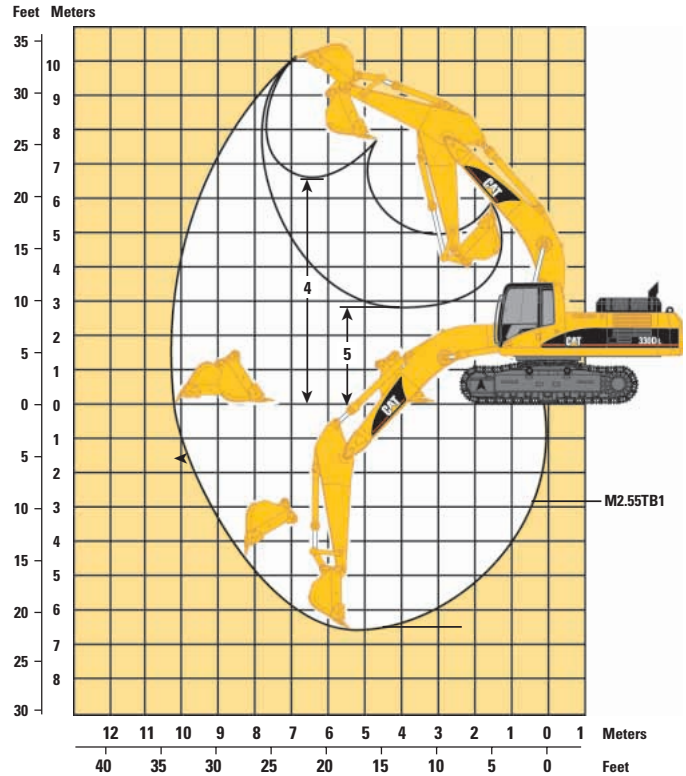
Reach Excavator Working Ranges

Reach (R) boom configuration



Mass Excavator Working Ranges

Mass (M) boom configuration



Boom Options

Stick Options

R3.9DB
(12'10")

R3.2DB
(10'6")

R3.9DB
(12'10")

R3.2DB
(10'6")

Mass Boom

M2.55TB1
(8'4")

Bucket Options

GP 1.19 m³
(1.56 yd³)

GP 1.19 m³
(1.56 yd³)

GP 1.19 m³
(1.56 yd³)
with Pin
Grabber
Coupler

GP 1.19 m³
(1.56 yd³)
with Pin
Grabber
Coupler

GP 1.19 m³
(1.56 yd³)

	R3.9DB (12'10")	R3.2DB (10'6")	R3.9DB (12'10")	R3.2DB (10'6")	M2.55TB1 (8'4")
1 Maximum digging depth	8185 mm (26'10")	7485 mm (24'7")	8461 mm (27'9")	7760 mm (25'6")	6633 mm (21'9")
2 Maximum reach at ground level	11 714 mm (38'5")	11 007 mm (36'1")	12 005 mm (39'5")	11 294 mm (37'1")	10 242 mm (33'7")
3 Maximum cutting height	10 749 mm (35'3")	10 272 mm (33'8")	10 909 mm (35'9")	10 413 mm (34'2")	10 023 mm (32'11")
4 Maximum loading height	7542 mm (24'9")	7108 mm (23'4")	7266 mm (23'10")	6833 mm (22'5")	6629 mm (21'9")
5 Minimum loading height	1911 mm (6'3")	2611 mm (8'7")	1635 mm (5'4")	2336 mm (7'8")	2937 mm (9'8")
6 Maximum depth cut for 2440 mm (8') level bottom	8052 mm (26'5")	7326 mm (24'0")	8338 mm (27'4")	7612 mm (25'0")	6459 mm (21'2")
7 Maximum vertical wall digging depth	7152 mm (23'6")	6131 mm (20'1")	5747 mm (18'10")	4826 mm (15'10")	4421 mm (14'6")

Bucket and Stick Forces

Stick Options	R3.9DB		R3.9DB with Pin Grabber Coupler		R3.2DB		R3.2DB with Pin Grabber Coupler		M2.55TB1	
	kN	lb	kN	lb	kN	lb	kN	lb	kN	lb
DB-Family Buckets										
Heavy Duty-Power										
Bucket Digging Force (ISO)	238.3	53,572	198.2	44,557	237.7	53,437	197.4	44,377		
Stick Digging Force (ISO)	151.9	34,148	144.9	32,575	170.0	38,218	160.1	35,992		
Bucket Digging Force (SAE)	208.6	46,895	180.8	40,645	208.0	46,760	180.0	40,466		
Stick Digging Force (SAE)	147.8	33,227	141.9	31,900	164.6	37,004	156.3	35,138		
Heavy Duty										
Bucket Digging Force (ISO)	214.3	48,177	187.4	42,129	213.6	48,019	186.7	41,972		
Stick Digging Force (ISO)	149.3	33,564	142.2	31,968	166.6	37,453	156.8	35,250		
Bucket Digging Force (SAE)	188.5	42,376	171.0	38,442	187.9	42,242	170.4	38,307		
Stick Digging Force (SAE)	145.0	32,597	139.1	31,271	161.0	36,194	152.8	34,351		
General Purpose										
Bucket Digging Force (ISO)	213.8	48,064	188.6	42,399	213.3	47,952	187.8	42,219		
Stick Digging Force (ISO)	149.3	33,564	142.6	32,058	166.8	37,498	157.4	35,385		
Bucket Digging Force (SAE)	191.1	42,961	174.4	39,207	190.6	42,849	173.9	39,094		
Stick Digging Force (SAE)	145.9	32,800	140.2	31,518	162.3	36,486	154.2	34,666		
TB-Family Buckets										
Heavy Duty										
Bucket Digging Force (ISO)									271.0	60,923
Stick Digging Force (ISO)									195.2	43,883
Bucket Digging Force (SAE)									239.6	53,864
Stick Digging Force (SAE)									188.0	42,264

Major Component Weights*

	kg	lb
Base machine with counterweight (without front linkage)		
With 800 mm (32") shoe	29 117	64,192
Two boom cylinders (each)	674	1,486
Counterweight		
Standard counterweight	6020	13,272
Boom (includes lines, pins and stick cylinder)		
Reach boom 6.5 m (20'3")	3255	7,176
Mass boom 6.18 m (20'4")	3283	7,238
Stick (includes lines, pins, bucket cylinder and linkage)		
R3.9 (12'10")	2012	4,436
R3.2 (10'6")	1867	4,116
M2.55 (8'5")	2079	4,583

* All weights are approximate.

Bucket Specifications and Compatibility

Bucket Type	Adaptor	Capacity*		Width		Tip Radius		Teeth Qty	Total Weight		Reach Boom Stick		Mass Boom Stick M2.55TB
		m ³	yd ³	mm	in	mm	in		kg	lb	R3.9DB	R3.2DB	
DB Family Buckets													
General Purpose	K100	0.94	1.23	762	30	1753.4	69.0	3	993	2,189	●	●	
	K100	1.19	1.56	914	36	1753.4	69.0	4	1088	2,398	●	●	
	K100	1.46	1.91	1067	42	1753.4	69.0	5	1200	2,646	●	●	
	K100	1.73	2.26	1219	48	1753.4	69.0	5	1288	2,839	●	●	
	K100	2.00	2.62	1372	54	1753.4	69.0	6	1401	3,089	●	●	
	K100	2.27	2.97	1524	60	1753.4	69.0	7	1515	3,339	○	○	
	K100	2.55	3.34	1676	66	1753.4	69.0	7	1602	3,532	∴	○	
Heavy Duty	K110	0.74	0.97	762	30	1779.1	70.0	3	1070	2,358	●	●	
	K110	0.95	1.24	914	36	1779.1	70.0	4	1216	2,682	●	●	
	K110	1.18	1.54	1067	42	1779.1	70.0	4	1310	2,889	●	●	
	K110	1.41	1.84	1219	48	1779.1	70.0	5	1441	3,178	●	●	
	K110	1.64	2.15	1372	54	1779.1	70.0	5	1539	3,393	●	●	
	K110	1.87	2.45	1524	60	1779.1	70.0	6	1672	3,686	●	●	
	K110	2.10	2.75	1676	66	1779.1	70.0	7	1805	3,979	○	○	
	K110	2.34	3.06	1829	72	1779.1	70.0	7	1904	4,197	∴	○	
Heavy Duty Rock	K110	0.74	0.97	762	30	1779.1	70.0	3	1131	2,493	●	●	
	K110	0.95	1.24	914	36	1779.1	70.0	4	1293	2,849	●	●	
	K110	1.18	1.54	1067	42	1779.1	70.0	4	1400	3,086	●	●	
	K110	1.41	1.84	1219	48	1779.1	70.0	5	1547	3,411	●	●	
	K110	1.64	2.15	1372	54	1779.1	70.0	5	1660	3,659	●	●	
Heavy Duty Power	K110	0.95	1.24	914	36	1681.8	66.2	4	1192	2,628	●	●	
	K110	1.40	1.83	1219	48	1681.8	66.2	5	1421	3,132	●	●	
	K110	1.63	2.13	1372	54	1681.8	66.2	5	1518	3,346	●	●	
	K110	1.86	2.43	1524	60	1681.8	66.2	6	1650	3,637	●	●	
Ditch Cleaning	N/A	1.63	2.13	1524	60	1410.0	55.5	–	1088	2,399	●	●	
	N/A	1.91	2.50	1830	72	1410.0	55.5	–	1217	2,683	●	●	
TB Family Buckets													
Heavy Duty	K110	2.40	3.14	1676	66	1869	73.6	7	2211	2358			○
	K110	2.70	3.53	1829	72	1869	73.6	7	2355	4197			○

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 (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
- ∴ 900 kg/m³ (1,500 lb/yd³) max material density

330D L Work Tool Matching Guide

Boom Options	Reach Boom 6.5 m (21'4")		Mass Boom 6.18 m (20'4")
Stick Options	R3.9DB (12'10")	R3.2DB (10'6")	M2.55TB (8'4")
Hydraulic Hammer	H130s/ H140Ds/ H160Ds	H130s/ H140Ds/ H160Ds	H130s/ H140Ds/ H160Ds
Multi-Processor	MP20 MP40 (Boom Mount)	MP20/MP30 MP40 (Boom Mount)	MP30 N/A
360° Scrap Shear	S320/S325* S365B (Boom Mount)	S320/S325* S365B (Boom Mount)	S325 N/A
Mechanical Shear	S128	S128	S128
Mechanical Pulverizer	P130	P130	P130
Trash Grapple**	Available as field installed attachment only		
Contractors' Grapple**	Available as field installed attachment only		
Rotating Sorting/Demolition Grapple	G320/G330	G320/G330	G320/G330
Vibratory Plate Compactor	CVP110	CVP110	CVP110
Hydraulic Thumb**	Available as field installed attachment only		
Dedicated Quick Coupler**	Available as field installed attachment only		
Pin-Grabber Quick Coupler	Available as factory or field installed attachment		N/A

* S325 only without PG Coupler.

** Contact Cat Work Tools for availability and proper matching.

Reach Boom Lift Capacities



Load Point Height



Load Radius Over Front



Load Radius Over Side



Load at Maximum Reach – Bucket Curled






Load at Maximum Reach – Bucket Extended

BOOM – 6.5 m (21'4")
STICK – 3.9 m (12'10")

BUCKET – DB 36" GP
with General Duty Tips (x4)
1078.6 kg (2,378 lb)

SHOES – 800 mm (32") triple grouser
UNDERCARRIAGE – Long
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)														
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	m	ft									
9.0 m 30.0 ft													*4390	*4390	7.84	25.28	*3260	*3260	9.36	30.30					
7.5 m 25.0 ft													*4070	*4070	8.97	29.17	*3080	*3080	10.39	33.87					
6.0 m 20.0 ft													*3960	*3960	9.73	31.80	*3030	*3030	11.07	36.20					
4.5 m 15.0 ft													*7000	6490	*6510	4620	*3990	3510	10.22	33.48	*3060	2920	11.47	37.58	
3.0 m 10.0 ft													*15,250	13,950	*14,250	9,900	*8,800	7,800	33.48	109.9	*6,750	6,450	37.58		
1.5 m 5.0 ft													*15,720	12,800	*11,220	8,250	*8,930	5,800	10.51	34.47	*3,390	2,720	11.54	37.88	
Ground Line													*33,900	27,600	*24,250	17,750	*19,350	12,450	15,350	9,100	*9,750	6,950	34.47	112.3	
-1.5 m -5.0 ft																									
-3.0 m -10.0 ft																									
-4.5 m -15.0 ft																									
-6.0 m -20.0 ft																									

* 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.

Reach Boom Lift Capacities



Load Point Height



Load Radius Over Front



Load Radius Over Side



Load at Maximum Reach - Bucket Curled






Load at Maximum Reach - Bucket Extended

BOOM – 6.5 m (21'4")
STICK – 3.2 m (10'6")

BUCKET – DB 36" GP
with General Duty Tips (x4)
1078.6 kg (2,378 lb)

SHOES – 800 mm (32") triple grouser
UNDERCARRIAGE – Long
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)										
		kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	m	ft	kg	lb	m	ft	
9.0 m 30.0 ft	kg lb																					
7.5 m 25.0 ft	kg lb									*6850 *15,150	6680 14,250			*5360 *11,850	*5360 *11,850	8.11 26.34	*3920 *8,650	*3920 *8,650	9.58 31.18			
6.0 m 20.0 ft	kg lb									*7090 *15,500	6610 14,150			*5230 *11,550	4650 10,350	8.95 29.23	*3870 *8,550	3730 8,300	10.32 33.74			
4.5 m 15.0 ft	kg lb							*8880 *19,200	*8880 *19,200	*7770 *16,900	6380 13,700	*7160 *15,700	4550 9,700	*5300 *11,700	4070 9,050	9.48 31.06	*3940 *8,650	3340 7,400	10.75 35.22			
3.0 m 10.0 ft	kg lb					*14 300 *30,700	13 590 29,350	*10 520 *22,750	8700 18,750	*8650 *18,750	6070 13,050	7320 15,700	4410 9,450	*5550 *12,200	3760 8,300	9.76 31.99	*4110 *9,050	3150 6,950	10.92 35.81			
1.5 m 5.0 ft	kg lb					*17 000 *36,650	12 440 26,800	*12 020 *26,000	8120 17,500	*9500 *20,600	5760 12,400	7150 15,350	4250 9,100	*5990 *13,200	3640 8,050	9.79 32.12	*4400 *9,700	3110 6,850	10.83 35.55			
Ground Line	kg lb			*7130 *16,350	*7130 *16,350	*18 220 *39,450	11 850 25,500	*13 010 *28,150	7720 16,600	9360 20,100	5520 11,850	7010 15,100	4120 8,850	6340 14,000	3710 8,150	9.59 31.46	*4860 *10,700	3240 7,150	10.49 34.43			
-1.5 m -5.0 ft	kg lb	*8530 *19,050	*8530 *19,050	*12 500 *28,300	*12 500 *28,300	*18 200 *39,450	11 680 25,100	13 130 28,200	7530 16,200	9210 19,800	5390 11,600	6960	4070	6810 15,050	3980 8,800	9.14 29.94	*5570 *12,300	3590 7,950	9.87 32.35			
-3.0 m -10.0 ft	kg lb	*13 870 *31,050	*13 870 *31,050	*18 930 *42,400	*18 930 *42,400	*17 180 *37,200	11 770 25,300	*12 820 *27,700	7520 16,200	9220 19,850	5390 11,600			7790 17,300	4580 10,150	8.39 27.43	*5550 *12,100	4310 9,600	8.90 29.09			
-4.5 m -15.0 ft	kg lb			*20 610 *44,450	*20 610 *44,450	*14 970 *32,250	12 070 25,950	*11 220 *24,000	7700 16,600					*8510 *18,750	5850 13,100	7.26 23.61						
-6.0 m -20.0 ft	kg lb					*10 610 *22,100	*10 610 *22,100															

* 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.

Reach Boom Lift Capacities



Load Point Height



Load Radius Over Front



Load Radius Over Side



Load at Maximum Reach – Coupler Curled

BOOM – 6.5 m (21'4")
STICK – 3.9 m (12'10")

BUCKET – No Bucket,
Bare Coupler Only

SHOES – 800 mm (32") triple grouser
UNDERCARRIAGE – Long
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													*4770 *10,600	*4770 *10,600	7.88 25.42
7.5 m 25.0 ft	kg lb											*4450 *4450	*4430 *9,800	*4430 *9,800		9.00 29.29
6.0 m 20.0 ft	kg lb								*14,500 *14,500	*14,500 *14,500	*6550 5080	*4290 10,850	*4290 *9,500	*4290 *9,500		9.77 31.92
4.5 m 15.0 ft	kg lb								*7340 *16,000	6800 14,600	*6880 *15,050	4950 10,600	*4300 *9,450	3840 8,500		10.26 33.59
3.0 m 10.0 ft	kg lb					*12 830 *27,600	*12 830 *27,600	*9840 *21,300	9180 19,800	*8300 *18,000	6450 13,900	*7400 *16,150	4760 10,250	*4430 *9,750	3580 7,900	10.51 34.46
1.5 m 5.0 ft	kg lb					*16 020 *34,550	13 090 28,200	*11 550 *25,000	8540 18,400	*9280 *20,150	6100 13,150	7470 16,050	4560 9,800	*4680 *10,300	3480 7,650	10.54 34.58
Ground Line	kg lb			*8110 *18,500	*8110 *18,500	*17 970 *38,850	12 290 26,450	*12 840 *27,800	8060 17,350	9650 20,750	5810 12,500	7290 15,700	4400 9,450	*5110 *11,250	3510 7,750	10.35 33.96
-1.5 m -5.0 ft	kg lb	*7370 *16,450	*7370 *16,450	*11 620 *26,250	*11 620 *26,250	*18 590 *40,300	11 930 25,650	13 380 28,750	7770 16,750	9440 20,300	5620 12,100	7170 15,450	4290 9,250	*5780 *12,800	3710 8,200	9.93 32.57
-3.0 m -10.0 ft	kg lb	*11 590 *25,950	*11 590 *25,950	*16 410 *37,100	*16 410 *37,100	*18 130 *39,250	11 880 25,550	13 260 28,500	7680 16,550	9370 20,150	5550 11,950	7170 15,450	4290 9,250	6890 15,250	4130 9,150	9.26 30.28
-4.5 m -15.0 ft	kg lb	*16 550 *37,200	*16 550 *37,200	*23 010 *50,950	*23 010 *50,950	*16 560 *35,750	12 050 25,900	*12 400 *26,700	7760 16,750	*9460 *20,200	5630 12,150			*8050 *17,750	4960 11,050	8.25 26.87
-6.0 m -20.0 ft	kg lb			*18 550 *39,500	*18 550 *39,500	*13 390 *28,450	12 460 26,850	*9820 *20,600	8060 17,450					*8040 *17,700	6840 15,500	6.77 21.81

* 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.

Reach Boom Lift Capacities



Load Point Height



Load Radius Over Front



Load Radius Over Side



















Load at Maximum Reach – Coupler Curled

BOOM – 6.5 m (21'4")
STICK – 3.2 m (10'6")

BUCKET – No Bucket,
Bare Coupler Only

SHOES – 800 mm (32") triple grouser
UNDERCARRIAGE – Long
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													*6150	*6150	6.89
7.5 m 25.0 ft	kg lb								*7220 *16,000	7030 15,050				*5680 *12,600	*5680 *12,600	8.15 26.47
6.0 m 20.0 ft	kg lb								*7450 *16,300	6930 14,900				*5530 *12,200	4970 11,050	8.99 29.35
4.5 m 15.0 ft	kg lb						*9190 *19,900	*9190 *19,900	*8110 *17,650	6680 14,400	*7530 *16,500	4,880 10,450		*5570 *12,250	4390 9,750	9.52 31.17
3.0 m 10.0 ft	kg lb				*14 580 *31,350	13 870 29,950	*10 840 *23,450	8980 19,350	*8990 *19,500	6370 13,700	7640 16,450	4730 10,150		*5780 *12,750	4080 9,000	9.79 32.10
1.5 m 5.0 ft	kg lb				*17 340 *37,400	12 760 27,500	*12 360 *26,750	8420 18,150	*9850 21,350	6060 13,050	7460 16,050	4570 9,800		*6190 *13,650	3950 8,700	9.82 32.23
Ground Line	kg lb			*7480 *17,100	*7480 *17,100	*18 610 *40,300	12 190 26,250	*13 370 *28,950	8030 17,300	9660 20,800	5820 12,550	7330 15,750	4440 9,550	6620 14,600	4010 8,850	9.62 31.57
-1.5 m -5.0 ft	kg lb	*8720 *19,450	*8720 *19,450	*12 800 *28,950	*12 800 *28,950	*18 620 *40,350	12 020 25,850	13 430 28,850	7830 16,900	9510 20,450	5690 12,250	7270 15,650	4390 9,450	7080 15,600	4270 9,450	9.17 30.06
-3.0 m -10.0 ft	kg lb	*14 080 *31,550	*14 080 *31,550	*19 210 *43,500	*19 210 *43,500	*17 610 *38,150	12 080 26,000	*13 200 *28,550	7820 16,850	9510 20,500	5690 12,250			8040 17,800	4860 10,750	8.43 27.56
-4.5 m -15.0 ft	kg lb			*21 130 *45,550	*21 130 *45,550	*15 410 *33,200	12 350 26,600	*11 620 *24,900	7990 17,250					*8820 *19,450	6090 13,600	7.31 23.76
-6.0 m -20.0 ft	kg lb					*11 070 *23,100	*11 070 *23,100							*8470 *18,650	*8470 *18,650	5.58

* 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.

Mass Boom Lift Capacities



Load Point Height



Load Radius Over Front



Load Radius Over Side



Load at Maximum Reach - Bucket Curled






Load at Maximum Reach - Bucket Extended

BOOM – 6.18 m (20'3")
STICK – 2.55 m (8'4")

BUCKET – TB 36" HD
with General Duty Tips (x4)
1819.8 kg (4,012 lb)

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

	3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)									
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	m	ft	kg	lb	m	ft
9.0 m 30.0 ft													*4220 *9,400	*4220 *9,400	7.32 23.47	
7.5 m 25.0 ft									*5880 *13,050	*5880 *13,050	7.11 23.00		*3900 *8,600	*3900 *8,600	8.65 28.12	
6.0 m 20.0 ft					*8030 *17,450	*8030 *17,450	*7460 *16,350	5940 12,650	*5680 *12,550	5060 11,300	8.06 26.27		*3810 *8,400	3750 8,350	9.47 30.93	
4.5 m 15.0 ft			*11 540 *24,800	*11 540 *24,800	*9170 *19,850	8710 18,700	*7930 *17,250	5770 12,350	*5750 *12,650	4260 9,450	8.64 28.29		*3860 *8,500	3260 7,200	9.93 32.51	
3.0 m 10.0 ft			*14 560 *31,300	12 800 27,650	*10 600 *22,900	8070 17,400	*8640 *18,750	5480 11,750	*6070 *13,350	3860 8,500	8.94 29.32		*4050 *8,900	3030 6,700	10.09 33.09	
1.5 m 5.0 ft			*16 800 *36,250	11 620 25,050	*11 870 *25,650	7490 16,100	9080 19,500	5190 11,150	*6640 *14,600	3710 8,200	8.98 29.46		*4390 *9,650	3020 6,650	9.97 32.73	
Ground Line			*17 550 *38,000	11 090 23,850	*12 570 *27,200	7110 15,300	8840 19,000	4980 10,700	6850 15,100	3810 8,400	8.76 28.73		*4930 *10,850	3240 7,150	9.57 31.41	
-1.5 m -5.0 ft	kg lb	*15 590 *35,300	*15 590 *35,300	*17 070 *37,000	11 020 23,650	*12 530 *27,050	6970 15,000	8760 18,850	4900 10,550	7530 16,650	4210 9,300	8.26 27.06	*5800 *12,800	3780 8,350	8.85 28.99	
-3.0 m -10.0 ft	kg lb	*19 920 *44,150	*19 920 *44,150	*15 480 *33,450	11 230 24,150	*11 510 *24,750	7070 15,200			*8440 *18,600	5110 11,350	7.42 24.25				
-4.5 m -15.0 ft	kg lb	*16 420 *35,200	*16 420 *35,200	*12 240 *26,100	11 750 25,300	*8580 7480										

* 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.

Standard Equipment

Standard equipment may vary. Consult your Caterpillar dealer for details.

Electrical

- 65 ampere alternator
- Base machine light (frame)
- Lights, cab mounted (Two)
- Horn
- Pre-Start monitoring system – checks for low fluids (engine oil, coolant, hydraulic oil) prior to starting machine

Operator Environment

- Air conditioner, heater, defroster with automatic climate control
- AM/FM radio with antenna and 2 speakers
- Ashtray with 24 volt lighter
- Beverage/cup holder
- Bolt-on Falling Object Guarding System (FOGS) capability
- Cab Glass
 - Openable and retractable two-piece front windshield
 - Sky-light, pop-up, polycarbonate
- Coat hook
- Floor mat
- Instrument panel and gauges
- Joysticks, console mounted, pilot operated
- Light – interior
- Literature compartment
- Monitor, full graphic color display
 - Multi-language capability
 - Warning, filter/fluid change, working hour information, Machine condition, error code, tool mode setting
 - Full time clock on monitor (no less than one week)
- Neutral lever (lock out) for all controls
- Polycarbonate side windows
- Positive filtered ventilation
- Pressurized cab
- Seat, suspension, with high back and head rest
- Seat belt, retractable (76 mm [3 in])
- Storage compartment suitable for lunch box cooler
- Sun shade (for skylight)
- Travel control pedals with removable hand levers
- Windshield wiper and washer (upper and lower)

Engine/Power Train

- C9 with ACERT™ Technology
 - 2300 m (7,500 ft) altitude capability without derate
 - 24V electric starting
 - Air intake heater
 - U.S. EPA Tier 3 emission compliant
 - HEUI™ Injectors
 - Water separator in fuel line
 - Electric priming pump
- Cooling Package
 - High ambient, 52° C (126° F) with VSF
 - Radial seal air filter
 - Automatic engine speed control with one-touch low idle
 - Two speed auto-shift travel
- Undercarriage
 - Grease lubricated track
 - Hydraulic track adjusters
 - Idler and center section track guards
 - Track shoes – 800 mm (32 in) triple grouser
 - Heavy-duty track rollers
- Other Standard Equipment
 - Automatic swing parking brake
 - Auxiliary hydraulic valve
 - Capability of stackable valves (max of 3) for main valve
 - Capability of auxiliary circuit
 - Counterweight with lifting eyes
 - Door locks, cap locks, and Caterpillar® one key security system
 - Fine swing control
 - Fully pressurized hydraulic system
 - Heavy lift
 - Mirrors (frame-right, cab-left)
 - S•O•SSM quick sampling valves for engine and hydraulic oil
 - Travel alarm
 - Wiring provision for Product Link

Optional Equipment

Optional equipment may vary. Consult your Caterpillar dealer for details.

Front linkage

Booms

Reach 6.5 m (21 ft 4 in)

Mass 6.18 m (20 ft 4 in)

Sticks

Reach 3.9 m (12 ft 10 in)

Reach 3.2 m (10 ft 6 in)

Mass 2.55 m (8 ft 5 in)

Bucket Linkage

DB family w/lifting eye

TB1 family w/lifting eye

Boom lowering control device

Electrical

Product Link (PL121SR/PL321SR)

Machine Security System (MSS)

Power supply (12V-10 Amp)

Guarding

Falling Object Guarding System (FOGS)

Front Windshield Guard

Full length, wire mesh

Heavy-duty bottom guards

Rubber bumpers (side)

Track Guiding Guards

Sprocket end, idler end guard two-piece full length
(center guard removed)

Vandalism guards

Operator Environment

Hand control pattern changer (ISO-SAE)

Rear window, secondary exit

Sun screen – roller type

Seat, high back with air suspension and heater

Third pedal, straight travel

Engine/Power Train

Prefilter, air

Cold Weather Starting Package

Two additional maintenance free batteries

High capacity starter motor

Heavy-duty cable

Jump-start receptacle

Ether aid

Block heater

Undercarriage

Track Shoes

700 mm (28 in) double grouser

700 mm (28 in) triple grouser

850 mm (34 in) triple grouser

850 mm (34 in) heavy-duty triple grouser

Auxiliary Hydraulics

Hammer Circuit

For single function (1 way/2 pump) hydraulic tools

Thumb Circuit

For double function (2 way/1 pump) hydraulic tools

Tool Control System

For single or double function, (1 or 2 way, 1 or 2 pump)
hydraulic tools

Joysticks with additional switches

Program up to 10 tools in memory

Capability of adding medium pressure

Medium Pressure Circuit for tools requiring
medium pressure

Hydraulic pin grabber quick coupler and controller

Lines for booms and sticks

Work Tools

Wide offering of buckets, tips and sidecutters

330D L Hydraulic Excavator

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and industry solutions, visit us on the web at www.cat.com

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