



320 GC

Hydraulic Excavator

Technical Specifications

Configurations and features may vary by region. Please consult your Cat® dealer for availability in your area.

Table of Contents

Specifications	2
Engine	2
Swing Mechanism	2
Weights	2
Track	2
Drive	2
Hydraulic System	2
Service Refill Capacities	2
Standards	3
Sound Performance	3
Operating Weights and Ground Pressures	3
Major Component Weights	4
Dimensions	5
Working Ranges	6
Reach Boom Lift Capacities – Counterweight: 3.7 mt (8,200 lb)	7
Bucket Specifications and Compatibility	12
Attachments Offering Guide	13
Standard and Optional Equipment	15
Dealer Installed Kit and Attachments	17

320 GC Hydraulic Excavator Specifications

Engine

Engine Model	Cat® C4.4	
Net Power (ISO 9249)	107 kW	143 hp
Engine Power (ISO 14396)	108 kW	145 hp
Bore	105 mm	4 in
Stroke	127 mm	5 in
Displacement	4.4 L	269 in ³
Biodiesel Capability	Up to B20 ¹	

- Meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- Recommended for use up to 4500 m (14,764 ft) altitude with engine power derate above 3000 m (9,842.5 ft).
- Advertised power is tested per the standard shown in effect at the time of manufacture.
- Net power available at the flywheel when engine is equipped with fan, air cleaner, muffler, and alternator with engine speed at 2,000 rpm.
- Rated speed at 2,000 rpm.

¹ Cat engines are compatible with the following renewable, alternative, and bio-fuels* with lower greenhouse gas emission impact:

✓ Up to B20 biodiesel (FAME)**

✓ Up to 100% HVO and GTL renewable fuels

*Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

**For use of blends up to B100, consult your Cat dealer.

Swing Mechanism

Swing Speed	11.3 rpm	
Maximum Swing Torque	74.4 kN·m	54,900 lb-ft

Weights

Operating Weight	20 000 kg	44,100 lb
• Standard undercarriage, Reach boom, R2.9 (9'6") stick, GD 1.0 m ³ (1.31 yd ³) bucket, 600 mm (24") triple grouser shoes, 3.7 mt (8,200 lb) counterweight.		
Operating Weight	20 300 kg	44,800 lb
• Medium undercarriage, Reach boom, R2.9 (9'6") stick, GD 1.0 m ³ (1.31 yd ³) bucket, 600 mm (24") triple grouser shoes, 3.7 mt (8,200 lb) counterweight.		
Operating Weight	20 500 kg	45,200 lb
• Long undercarriage, Reach boom, R2.9 (9'6") stick, GD 1.0 m ³ (1.31 yd ³) bucket, 600 mm (24") triple grouser shoes, 3.7 mt (8,200 lb) counterweight.		

Track

Standard Track Shoes Width	600 mm	24 in
Optional Track Shoes Width	790 mm	31 in
Number of Shoes Each Side – Standard Undercarriage	45	
Number of Shoes Each Side – Medium Undercarriage	47	
Number of Shoes Each Side – Long Undercarriage	49	
Number of Track Rollers Each Side – Standard and Medium Undercarriage	7	
Number of Track Rollers Each Side – Long Undercarriage	8	
Number of Carrier Rollers (each side)	2	

Drive

Gradeability	35°/70%	
Maximum Travel Speed	5.7 km/h	3.5 mph
Maximum Drawbar Pull	206 kN	46,311 lbf

Hydraulic System

Main System – Maximum Flow – Implement	429 L/min (215 × 2 pumps)	113 gal/min (57 × 2 pumps)
Maximum Pressure – Equipment	35 000 kPa	5,075 psi
Maximum Pressure – Travel	34 300 kPa	4,974 psi
Maximum Pressure – Swing	25 000 kPa	3,625 psi
Boom Cylinder – Bore	120 mm	5 in
Boom Cylinder – Stroke	1260 mm	50 in
Stick Cylinder – Bore	135 mm	5 in
Stick Cylinder – Stroke	1504 mm	59 in
Bucket Cylinder – Bore	115 mm	5 in
Bucket Cylinder – Stroke	1104 mm	43 in

Service Refill Capacities

Fuel Tank Capacity	345 L	86.6 gal
Cooling System	25 L	6.6 gal
Engine Oil	15 L	4.0 gal
Swing Drive	12 L	3.2 gal
Final Drive (each)	4 L	1.1 gal
Hydraulic System (including tank)	234 L	61.8 gal
Hydraulic Tank	115 L	30.4 gal

320 GC Hydraulic Excavator Specifications

Standards

Brakes	ISO 10265:2008
Cab/ROPS	ISO 12117-2:2008
FOGS (optional)	ISO 10262:1998 Level II

Sound Performance

ISO 6395:2008 (external)	99 dB(A)
ISO 6396:2008 (inside cab)	70 dB(A)

- 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 a noisy environment.

Operating Weights and Ground Pressures

	600 mm (24") Triple Grouser Shoes		790 mm (31") Triple Grouser Shoes	
	Weight	Ground Pressure	Weight	Ground Pressure
	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)
3.7 mt (8,200 lb) Counterweight Standard Undercarriage Base Machine				
Reach Boom + R2.9 (9'6") Stick + 1.0 m ³ (1.31 yd ³) GD Bucket	20 000 (44,100)	46.1 (6.7)	20 600 (45,400)	36.0 (5.2)
3.7 mt (8,200 lb) Counterweight Medium Undercarriage Base Machine				
Reach Boom + R2.9 (9'6") Stick + 1.0 m ³ (1.31 yd ³) GD Bucket	20 300 (44,800)	46.8 (6.8)	21 000 (46,300)	48.4 (7.0)
3.7 mt (8,200 lb) Counterweight Long Undercarriage Base Machine				
Reach Boom + R2.9 (9'6") Stick + 1.0 m ³ (1.31 yd ³) GD Bucket	20 500 (45,200)	42.6 (6.2)	—	—

All operating weights include a 90% fuel tank with 75 kg (165 lb) operator.

320 GC Hydraulic Excavator Specifications

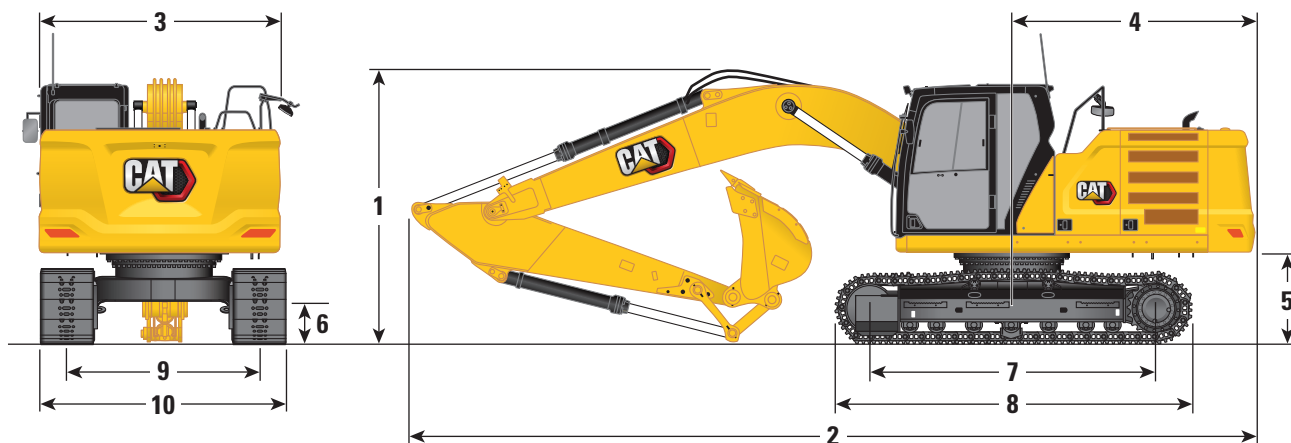
Major Component Weights

	kg	lb
Base Machine (with 3.7 mt [8,200 lb] counterweight, standard swing frame, standard base frame with standard track rollers and standard carrier rollers for standard undercarriage, without boom cylinders – does not include 90% fuel and 75 kg [165 lb] operator)	13 540	29,800
Base Machine (with 3.7 mt [8,200 lb] counterweight, standard swing frame, standard base frame with track rollers and standard carrier rollers for medium undercarriage, without boom cylinders – does not include 90% fuel and 75 kg [165 lb] operator)	13 740	30,300
Base Machine (with 3.7 mt [8,200 lb] counterweight, standard swing frame, standard base frame with HD track rollers and standard carrier rollers for long undercarriage, without boom cylinders – does not include 90% fuel and 75 kg [165 lb] operator)	13 880	30,600
Track Shoes:		
600 mm (24") Width, 8.5 mm (0.33") Thick Triple Grouser Track Shoes for Standard Undercarriage	2390	5,300
600 mm (24") Width, 8.5 mm (0.33") Thick Triple Grouser Track Shoes for Medium Undercarriage	2500	5,500
600 mm (24") Width, 8.5 mm (0.33") Thick, Triple Grouser Track Shoes for Long Undercarriage	2600	5,700
790 mm (31") Width, 10 mm (0.39") Thick Triple Grouser Track Shoes for Standard Undercarriage	3020	6,700
790 mm (31") Width, 10 mm (0.39") Thick Triple Grouser Track Shoes for Medium Undercarriage	3220	7,100
Two Boom Cylinders	340	700
Weight of 90% Fuel Tank and 75 kg (165 lb) Operator	310	700
Counterweight:		
3.7 mt Counterweight	3700	8,200
Swing Frame:		
Standard Swing Frame	1910	4,150
Undercarriage:		
Standard Base Frame with Standard Track Rollers and Standard Carrier Rollers	3940	8,700
Standard Base Frame with HD Track Rollers and Standard Carrier Rollers for Medium Undercarriage	4140	9,100
Standard Base Frame with HD Track Rollers and Standard Carrier Rollers for Long Undercarriage	4270	9,400
Booms (including lines, pins, stick cylinder):		
Reach Boom (5.7 m/18'8")	1690	3,700
Stick (including lines, pins, bucket cylinder, bucket linkage):		
Reach Stick (R2.9B1/9'6")	980	2,200
Buckets (without linkage):		
1.0 m ³ (1.31 yd ³) GD	730	1,600

320 GC Hydraulic Excavator Specifications

Dimensions

All dimensions are approximate and may vary depending on bucket selection.

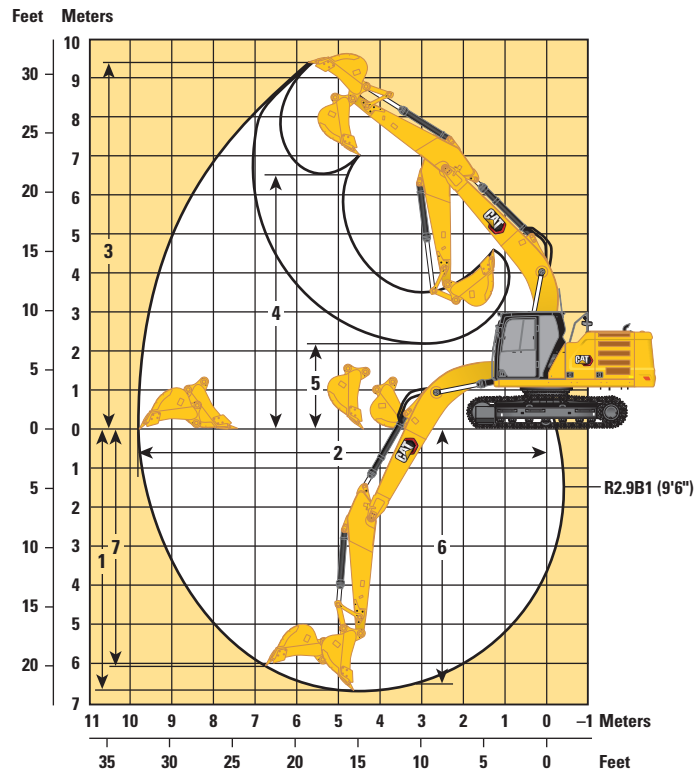


Boom Option	Reach Boom 5.7 m (18'8")		Reach Boom 5.7 m (18'8")		Reach Boom 5.7 m (18'8")	
Stick Option	Reach Stick R2.9B1 (9'6")		Reach Stick R2.9B1 (9'6")		Reach Stick R2.9B1 (9'6")	
Undercarriage Options	Standard		Medium		Long	
1 Machine Height:						
Top of Cab Height	2960 mm	9'9"	2960 mm	9'9"	2960 mm	9'9"
Top of FOGS Height	3100 mm	10'2"	3100 mm	10'2"	3100 mm	10'2"
Handrails Height	2950 mm	9'8"	2950 mm	9'8"	2950 mm	9'8"
With Boom/Stick/Bucket Installed	3160 mm	10'4"	3160 mm	10'4"	3160 mm	10'4"
With Boom/Stick Installed	2910 mm	9'7"	2910 mm	9'7"	2910 mm	9'7"
With Boom Installed	2480 mm	8'2"	2480 mm	8'2"	2480 mm	8'2"
2 Machine Length:						
With Boom/Stick/Bucket Installed	9530 mm	31'3"	9530 mm	31'3"	9530 mm	31'3"
With Boom/Stick Installed	9500 mm	31'2"	9500 mm	31'2"	9500 mm	31'2"
With Boom Installed	8450 mm	27'9"	8450 mm	27'9"	8450 mm	27'9"
3 Upperframe Width	2780 mm	9'1"	2780 mm	9'1"	2780 mm	9'1"
4 Tail Swing Radius	2830 mm	9'3"	2830 mm	9'3"	2830 mm	9'3"
5 Counterweight Clearance	1050 mm	3'5"	1050 mm	3'5"	1050 mm	3'5"
6 Ground Clearance	470 mm	1'7"	470 mm	1'7"	470 mm	1'7"
7 Length to Center of Rollers	3270 mm	10'9"	3450 mm	11'4"	3650 mm	12'0"
8 Track Length	4070 mm	13'4"	4250 mm	13'11"	4450 mm	14'7"
9 Track Gauge	2200 mm	7'3"	2380 mm	7'10"	2380 mm	7'10"
10 Undercarriage Width:						
600 mm (24") Shoes	2800 mm	9'2"	2980 mm	9'9"	2980 mm	9'9"
790 mm (31") Shoes	2990 mm	9'10"	—	—	—	—
Bucket Type	GD		GD		GD	
Bucket Capacity	1.0 m ³	1.31 yd ³	1.00 m ³	1.31 yd ³	1.00 m ³	1.31 yd ³
Bucket Tip Radius	1580 mm	5'2"	1580 mm	5'2"	1580 mm	5'2"

320 GC Hydraulic Excavator Specifications

Working Ranges

All dimensions are approximate and may vary depending on bucket selection.

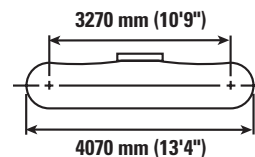
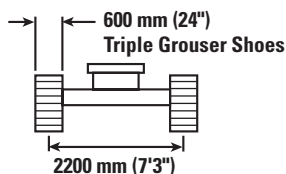
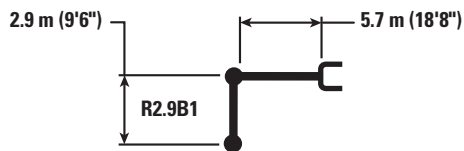















Boom Option	Reach Boom 5.7 m (18'8")	
Stick Option	Reach Stick R2.9B1 (9'6")	
Undercarriage Options	Standard/Medium/Long	
1 Maximum Digging Depth	6630 mm	21'9"
2 Maximum Reach at Ground Line	9770 mm	32'
3 Maximum Cutting Height	9440 mm	30'11"
4 Maximum Loading Height	6580 mm	21'7"
5 Minimum Loading Height	2260 mm	7'5"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	6460 mm	21'2"
7 Maximum Vertical Wall Digging Depth	6010 mm	19'8"
Bucket Digging Force (ISO)	129 kN	29,007 lbf
Stick Digging Force (ISO)	99 kN	22,301 lbf
Bucket Type	GD	
Bucket Capacity	1.0 m ³	1.31 yd ³
Bucket Tip Radius	1560 mm	5'1"

320 GC Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 3.7 mt (8,200 lb) – with Bucket Linkages, without Bucket

Standard Undercarriage



		1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"				mm in
														
7500 mm 300 in	kg lb							*4350	*4350			*3750	*3750	6150
6000 mm 240 in	kg lb							*4950	4500			*3500	3250	7290
								*10,850	9,700			*7,700	7,250	290
4500 mm 180 in	kg lb							*5450	4350	4500	3050	*3450	2750	7990
								*11,850	9,350	9,600	6,550	*7,550	6,050	320
3000 mm 120 in	kg lb					*7950	6250	6150	4150	4400	2950	*3500	2500	8360
						*17,100	13,500	13,250	8,900	9,400	6,350	*7,700	5,500	330
1500 mm 60 in	kg lb					9150	5800	5900	3900	4250	2850	3600	2400	8450
						19,650	12,450	12,700	8,400	9,150	6,100	7,900	5,250	340
0 mm 0 in	kg lb			*5800	*5800	8850	5500	5750	3750	4200	2750	3650	2450	8260
				*13,300	*13,300	18,950	11,900	12,300	8,050	9,000	5,950	8,050	5,350	330
-1500 mm -60 in	kg lb	*6200	*6200	*10 000	*10 000	8750	5450	5650	3650	4150	2750	3950	2650	7780
		*13,800	*13,800	*22,700	22,000	18,750	11,700	12,150	7,900	8,950	5,900	8,700	5,750	310
-3000 mm -120 in	kg lb	*10 600	*10 600	*14 100	10 450	8800	5500	5700	3700			4650	3100	6950
		*23,800	*23,800	*30,500	22,400	18,900	11,850	12,250	8,000			10,350	6,850	280
-4500 mm -180 in	kg lb			*11 250	10 800	*8100	5700					*6100	4250	5600
				*24,050	23,150	*17,200	12,300					*13,450	9,600	220



ISO 10567:2007



*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

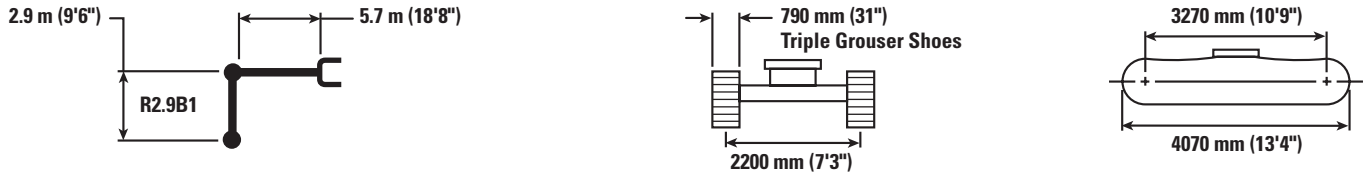
Lift capacity stays with ±5% for all available track shoes.

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

320 GC Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 3.7 mt (8,200 lb) – with Bucket Linkages, without Bucket

Standard Undercarriage



		1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm in		
7500 mm 300 in	kg lb							*4350	*4350			*3750 *8,350	*3750 *8,350	6150 240
6000 mm 240 in	kg lb							*4950 *10,850	4600 9,900			*3500 *7,700	3350 7,400	7290 290
4500 mm 180 in	kg lb							*5450 *11,850	4450 9,600	4600 9,900	3150 6,700	*3450 *7,550	2800 6,250	7990 320
3000 mm 120 in	kg lb					*7950 *17,100	6400 13,850	*6250 *13,550	4250 9,100	4500 9,700	3050 6,550	*3500 *7,700	2550 5,650	8360 330
1500 mm 60 in	kg lb					9400 20,150	5950 12,800	6050 13,050	4000 8,650	4400 9,450	2950 6,300	3700 8,100	2450 5,400	8450 340
0 mm 0 in	kg lb			*5800 *13,300	*5800 *13,300	9100 19,500	5700 12,200	5900 12,650	3850 8,300	4300 9,250	2850 6,100	3750 8,250	2500 5,500	8260 330
-1500 mm -60 in	kg lb	*6200 *13,800	*6200 *13,800	*10 000 *22,700	*10 000 22,600	9000 19,300	5600 12,050	5800 12,500	3800 8,150	4250 9,200	2850 6,100	4050 8,950	2700 5,950	7780 310
-3000 mm -120 in	kg lb	*10 600 *23,800	*10 600 *23,800	*14 100 *30,500	10 700 23,000	9050 19,450	5650 12,150	5850 12,600	3800 8,200			4800 10,650	3200 7,050	6950 280
-4500 mm -180 in	kg lb			*11 250 *24,050	11 100 23,800	*8100 *17,200	5850 12,650					*6100 *13,450	4400 9,850	5600 220



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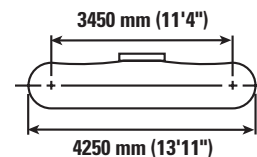
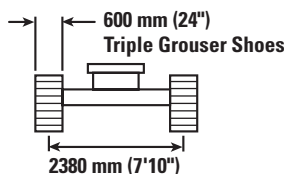
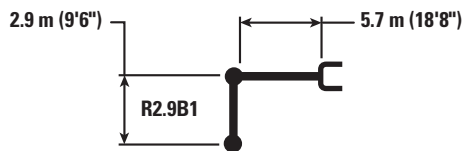
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320 GC Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 3.7 mt (8,200 lb) – with Bucket Linkages, without Bucket

Medium Undercarriage



		1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm in		
7500 mm 300 in	kg lb							*4300 *10,850	*4300 9,950			*3750 *8,300	*3750 *8,300	6150 240
6000 mm 240 in	kg lb							*4950 *10,850	4950 10,600			*3450 *7,600	*3450 *7,600	7290 290
4500 mm 180 in	kg lb							*5450 *11,800	4800 10,300	4850 10,400	3350 7,200	*3400 *7,450	3000 6,650	7990 320
3000 mm 120 in	kg lb					*7950 *17,050	6950 15,000	*6250 *13,500	4550 9,800	4750 10,150	3250 7,000	*3450 *7,600	2750 6,050	8360 330
1500 mm 60 in	kg lb					*9600 *20,700	6450 13,950	6450 13,800	4300 9,300	4600 9,900	3150 6,750	*3700 *8,050	2650 5,800	8450 340
0 mm 0 in	kg lb			*5750 *13,250	*5750 *13,250	9750 20,900	6200 13,350	6250 13,400	4150 8,950	4550 9,750	3050 6,600	3950 8,700	2700 5,900	8260 330
-1500 mm -60 in	kg lb	*6150 *13,750	*6150 *13,750	*10 000 *22,650	*10 000 *22,650	9650 20,700	6100 13,150	6150 13,250	4100 8,800	4500 9,650	3050 6,550	4300 9,450	2900 6,400	7780 310
-3000 mm -120 in	kg lb	*10 600 *23,750	*10 600 *23,750	*14 100 *30,550	11 950 25,600	9700 20,850	6150 13,250	6200 13,350	4100 8,850			5050 11,200	3400 7,550	6950 280
-4500 mm -180 in	kg lb			*11 250 *24,050	*11 250 *24,050	*8100 *17,200	6350 13,700					*6100 *13,400	4700 10,600	5600 220



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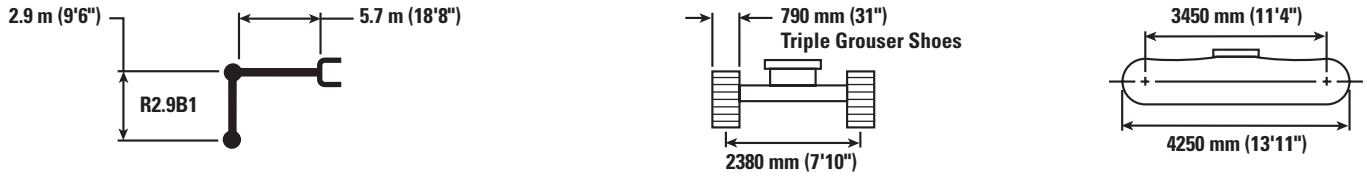
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320 GC Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 3.7 mt (8,200 lb) – with Bucket Linkages, without Bucket

Medium Undercarriage



		1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm in		
7500 mm 300 in	kg lb							*4300	*4300			*3750	*3750	6150 240
6000 mm 240 in	kg lb							*4950	*4950			*3450	*3450	7290 290
4500 mm 180 in	kg lb							*5450	4950	5000	3500	*3400	3150	7990 320
3000 mm 120 in	kg lb					*7950	7200	*6250	4700	4900	3400	*3450	2850	8360 330
1500 mm 60 in	kg lb					*9600	6700	6650	4500	4800	3250	*3700	2750	8450 340
0 mm 0 in	kg lb			*5750	*5750	10 100	6400	6500	4300	4700	3200	*4050	2800	8260 330
-1500 mm -60 in	kg lb	*6150	*6150	*10 000	*10 000	10 000	6350	6400	4250	4650	3150	4450	3000	7780 310
-3000 mm -120 in	kg lb	*10 600	*10 600	*14 100	12 350	*9950	6400	6450	4250			5250	3550	6950 280
-4500 mm -180 in	kg lb			*11 250	*11 250	*8100	6600					*6100	4900	5600 220
				*24,050	*24,050	*17,200	14,200					*13,400	11,000	



ISO 10567:2007



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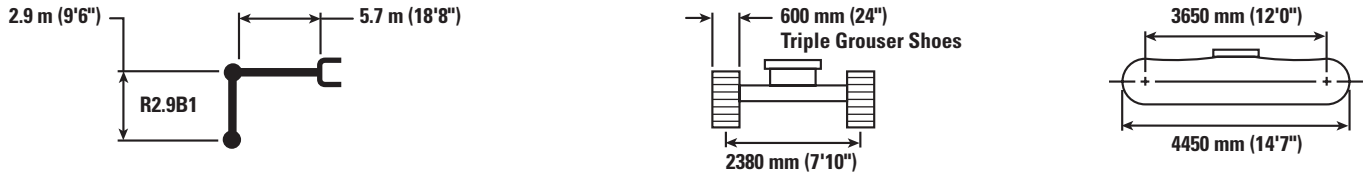
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320 GC Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 3.7 mt (8,200 lb) – with Bucket Linkages, without Bucket

Long Undercarriage



		1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm in		
7500 mm 300 in	kg lb							*4350	*4350			*3750	*3750	6150 240
6000 mm 240 in	kg lb							*4950	*4950			*3500	*3500	7290 290
4500 mm 180 in	kg lb							*5450	4900	*5150	3450	*3400	3100	7990 320
3000 mm 120 in	kg lb					*7950	7100	*6250	4650	5200	3350	*3500	2800	8360 330
1500 mm 60 in	kg lb					*9650	6600	7100	4400	5100	3250	*3700	2700	8450 340
0 mm 0 in	kg lb			*5800	*5800	*10 600	6350	6900	4250	5000	3150	*4100	2750	8260 330
-1500 mm -60 in	kg lb	*6150	*6150	*10 000	*10 000	*10 700	6250	6850	4200	4950	3100	4700	3000	7780 310
-3000 mm -120 in	kg lb	*10 600	*10 600	*14 150	12 200	*10 000	6300	6850	4200			5600	3500	6950 280
-4500 mm -180 in	kg lb			*11 300	*11 300	*8150	6500					*6150	4800	5600 220
				*24,200	*24,200	*17,300	14,000					*13,500	10,850	



ISO 10567:2007



*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

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

320 GC Hydraulic Excavator Specifications

Bucket Specifications and Compatibility

	Linkage	Width		Capacity		Weight		Fill	Standard Undercarriage	Medium Undercarriage
		mm	in	m ³	yd ³	kg	lb		3.7 mt (8,200 lb) Counterweight	3.7 mt (8,200 lb) Counterweight
									Reach Boom	Reach Boom
Pin-On (No Quick Coupler)										
General Duty	B	1050	42	1.00	1.31	737	1,624	100	⊖	●
	B	1050	42	1.16	1.52	848	1,869	100	○	⊖
Heavy Duty	B	1050	42	1.00	1.31	892	1,967	100	⊖	⊙
	B	1200	48	1.19	1.56	928	2,046	100	○	⊖
Heavy Duty Spade	B	1350	54	1.40	1.83	1025	2,260	100	X	○
Severe Duty	B	1200	48	1.19	1.56	1038	2,289	90	○	⊖
Severe Duty Spade	B	1200	48	1.20	1.57	1011	2,229	90	○	⊖
Maximum load with pin-on (payload + bucket)								kg	2425	2764
								lb	5,346	6,094
	Linkage	Width		Capacity		Weight		Fill	Standard Undercarriage	Medium Undercarriage
		mm	in	m ³	yd ³	kg	lb		3.7 mt (8,200 lb) Counterweight	3.7 mt (8,200 lb) Counterweight
									Reach Boom	Reach Boom
With Cat Pin Grabber Coupler										
General Duty	B	1050	42	1.00	1.31	737	1,624	100	○	⊖
	B	1050	42	1.16	1.52	848	1,869	100	◇	○
Heavy Duty	B	1050	42	1.00	1.31	892	1,967	100	◇	○
	B	1200	48	1.19	1.56	928	2,046	100	◇	○
Heavy Duty Spade	B	1350	54	1.40	1.83	1025	2,260	100	X	◇
Severe Duty	B	1200	48	1.19	1.56	1038	2,289	90	◇	○
Severe Duty Spade	B	1200	48	1.20	1.57	1011	2,229	90	◇	○
Maximum load with coupler (payload + bucket)								kg	2006	2343
								lb	4,423	5,166

The above loads are in compliance with hydraulic excavator standard EN474-5:2006+A3:2013, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451:2007.

Bucket weight with General Duty tips.

Maximum Material Density:

- 2100 kg/m³ (3,500 lb/yd³)
- ⊙ 1800 kg/m³ (3,000 lb/yd³)
- ⊖ 1500 kg/m³ (2,500 lb/yd³)
- 1200 kg/m³ (2,000 lb/yd³)
- ◇ 900 kg/m³ (1,500 lb/yd³)
- X Not Recommended

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

320 GC Hydraulic Excavator Specifications

Attachments Offering Guide

Not all Attachments are available in all regions. Consult your Cat dealer for configurations available in your region.

Match

* Working range front only

† Allowed usage on machine less than 50%

1800 kg/m³
(3,000 lb/yd³)

1200 kg/m³
(2,000 lb/yd³)

PIN-ON ATTACHMENTS

		Standard Undercarriage
Counterweight		3.7 mt (8,200 lb)
Boom Type		Reach
Stick Length		2.9 m (9'6")
Hydraulic Hammers	H115 S	✓
	H120 GC	✓
	H120 GC Side Mount	✓
	H120 GC S	✓
	H120 S	✓
	H130 S	✓†
Multi-Processors	MP318 Concrete Cutter Jaw	✓
	MP318 Demolition Jaw	✓
	MP318 Pulverizer Jaw	✓*
	MP318 Shear Jaw	✓
	MP318 Universal Jaw	✓
Demolition and Sorting Grapples	G318	✓
Mobile Scrap and Demolition Shears	S3025	✓*
Pulverizers	P218 Secondary Pulverizer	✓*
	P318 Primary Pulverizer	✓*
Compactors (Vibratory Plate)	CVP110	✓
Orange Peel Grapples	GSH420-500	●
	GSH420-600	●
	GSH420-750	○
	GSH520-500	●
	GSH520-600	○

(continued on next page)

320 GC Hydraulic Excavator Specifications

Attachments Offering Guide *(continued)*

Not all Attachments are available in all regions. Consult your Cat dealer for configurations available in your region.

Match
 * Working range front only
 † Allowed usage on machine less than 50%

CAT PIN GRABBER COUPLER ATTACHMENTS

Counterweight		3.7 mt (8,200 lb)
Boom Type		Reach
Stick Length		2.9 m (9'6")
Hydraulic Hammers	H115 S	✓
	H120 GC	✓†*
	H120 GC Side Mount	✓†
	H120 GC S	✓†
	H120 S	✓†
	H130 S	✓†*
Pulverizers	P215	✓*
Compactors (Vibratory Plate)	CVP110	✓

BOOM-MOUNT ATTACHMENTS

Counterweight		3.7 mt (8,200 lb)
Boom Type		Reach
Mobile Scrap and Demolition Shears	S2050	✓*
	S3035	✓
	S3035 Flat Top	✓

Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional		Standard	Optional
BOOM, STICKS AND LINKAGES			CAT TECHNOLOGY		
5.7 m (18'8") Reach boom	✓		Cat Product Link™	✓	
2.9 m (9'6") Reach stick	✓		Auto hammer stop	✓	
Bucket linkage, B1-family with lifting eye	✓		ELECTRICAL SYSTEM		
CAB			1,000 CCA maintenance-free batteries (×2)	✓	
ROPS, standard sound suppression	✓		Centralized electrical disconnect switch	✓	
High-resolution 203 mm (8") LCD touchscreen monitor	✓		Programmable time-delay LED working lights	✓	
Auto bi-level air conditioner	✓		LED chassis light and LH boom light – 1,800 lumens	✓	
Keyless push-to-start engine control	✓		LED chassis light, LH and RH boom lights, cab lights – 1,800 lumens		✓
Height-adjustable console, three steps with tool	✓		ENGINE		
Fixed left-side console	✓		Two selectable power modes	✓	
Mechanically adjustable seat suspension	✓		Automatic engine speed control	✓	
Cat Stick Steer		✓	Automatic engine idle shutdown	✓	
51 mm (2") orange seat belt	✓		Work up to 3000 m (9,842.5 ft) above sea level without engine power de-rating	✓	
Console mounted radio (with Bluetooth® pairing and USB port)	✓		52° C (125° F) high-ambient cooling capacity	✓	
24V DC outlets	✓		Cold starting capability for –32° C (–25° F)		✓
Console storage	✓		Double element air filter with integrated pre-cleaner	✓	
Cup and bottle holders	✓		Electric fuel priming pump	✓	
Coat hook	✓		Electric cooling fans with auto-reverse function	✓	
Openable two-piece front window	✓				
Upper radial wiper with washer	✓				
Openable steel hatch	✓				
LED dome light	✓				
Roller front sunscreen	✓				
Rear window emergency exit	✓				
Washable floor mat	✓				
Beacon ready	✓				

(continued on next page)

320 GC Standard and Optional Equipment

Standard and Optional Equipment *(continued)*

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional		Standard	Optional
HYDRAULIC SYSTEM			SERVICE AND MAINTENANCE		
Boom and stick regeneration circuits	✓		S·O·S SM sampling ports	✓	
Electronic main control valve	✓		Grouped location for engine oil and fuel filters	✓	
Auto warm up	✓		Ground-level second dipstick for engine oil	✓	
Auto two-speed travel	✓		Radiator screen		✓
Boom and stick drift reduction valve	✓		Side entry to service platform	✓	
Element type main hydraulic filter	✓		UNDERCARRIAGE AND STRUCTURES		
Three button joysticks	✓		Standard undercarriage		✓
Slider joysticks		✓	Medium undercarriage		✓
Tandem type electronic main pump	✓		Long undercarriage		✓ ⁽¹⁾
Hammer return filter circuit		✓	600 mm (24") triple grouser track shoes		✓
Basic Tool Control (one pump, one way high-pressure flow)		✓	790 mm (31") triple grouser track shoes		✓
Advanced Tool Control (two pump, one/two way high-pressure flow)		✓	Tie-down points on base frame	✓	
Quick coupler circuit for Cat Pin Grabber		✓	Center track guiding guard	✓	
Operating pattern (four way)		✓	Bottom guards	✓	
Standard fluids	✓		Travel motor guards	✓	
Multi viscous hydraulic oil	✓		Grease lubricated track links	✓	
Arctic fluids (include grease, engine oil, hydraulic oil)		✓	3.7 mt (8,200 lb) counterweight	✓	
SAFETY AND SECURITY			⁽¹⁾ Chile only		
Rearview camera and right-side mirror	✓				
Rearview and right-hand sideview cameras		✓			
Neutral lever (lock out) for all controls	✓				
Anti-skid plate and countersunk bolts on service platform	✓				
Ground-level accessible secondary engine shutoff switch in cab	✓				
RH handrail and handhold (ISO 2867:2011 compliant)	✓				

Dealer Installed Kit and Attachments

Attachments may vary. Consult your Cat dealer for details.

CAB

- RH and LH electrical pedal
- Polycarbonate roof hatch
- Radial lower wiper for 70/30 with washer
- P5A laminated glass front windshield and roof hatch

SAFETY AND SECURITY

- Seat belt, retractable (75 mm/3" width)
- Bluetooth receiver

SERVICE AND MAINTENANCE

- Grease gun holder

GUARDS

- FOGS (not compatible with cab light cover, rain protector)
- Mesh guard full front (not compatible with cab light cover, rain protector)
- Mesh guard lower half front
- Swivel guard
- Full protecting vandalism guard



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