



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
Air Conditioning System	2
Swing Mechanism	2
Weights	2
Track	2
Drive	2
Hydraulic System	2
Service Refill Capacities	2
Standards	2
Sound Performance	2
Operating Weights and Ground Pressures	3
Major Component Weights	3
Dimensions	4
Working Ranges	5
Reach Boom Lift Capacities – Counterweight: 4.2 mt (9,300 lb)	6
Bucket Specifications and Compatibility	9
Attachments Offering Guide	12
Standard and Optional Equipment	16
Dealer Installed Kit and Attachments	18

320 GC Hydraulic Excavator Specifications

Engine

Engine model	Cat® C4.4e TA	
Engine Power (ISO 9249)	90 kW/121 hp/122 ps	
Engine Power (ISO 14396)	91 kW/122 hp/123 ps	
Bore	105 mm	4 in
Stroke	127 mm	5 in
Displacement	4.4 L	269 in ³

- The 320 GC meets EU Stage IV emission standards.
- Recommended for use up to 4500 m (14,764 ft) altitude with engine power derate above 3000 m (9,842.5 ft).
- Rating at 2,000 rpm.

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.9 kg of refrigerant which has a CO₂ equivalent of 1.287 metric tonnes.

Swing Mechanism

Swing Torque	62.3 kN·m	46,000 lb-ft
Maximum Swing Torque	74.4 kN·m	54,900 lb-ft

Weights

Operating Weight	21 900 kg	48,281 lb
------------------	-----------	-----------

- Reach boom, R2.9 (9'6") stick, GD 1.0 m³ (1.31 yd³) bucket and 700 mm (28 in) triple grouser shoes.

Track

Optional Track Shoes Width	600 mm	24 in
Optional Track Shoes Width	700 mm	28 in
Optional Track Shoes Width	790 mm	31 in
Number of Shoes (each side)	49	
Number of Track Rollers (each side)	8	
Number of Carrier Rollers (each side)	2	

Drive

Maximum Gradeability	35°/70%	
Maximum Travel Speed	5.9 km/h	3.6 mph
Maximum Drawbar Pull – Standard Undercarriage	205 kN	46,131 lbf

Hydraulic System

Main System – Maximum Flow (Implement)	442 L/min (221 × 2 pumps)	116 gal/min (58 × 2 pumps)
Maximum Pressure – Equipment – Normal	35 000 kPa	5,075 psi
Maximum Pressure – Equipment – Lift Mode	38 000 kPa	5,510 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 (each)	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
DEF Tank	39 L	10.3 gal

Standards

Brakes	ISO 10265:2008
Cab/ROPS	ISO 12117-2:2008
Cab	ISO 10262-1:1998
FOGS (optional)	ISO 10262-2:1998

Sound Performance

ISO 6395 (external)	101 dB(A)
ISO 6396 (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.

320 GC Hydraulic Excavator Specifications

Operating Weights and Ground Pressures

	600 mm (24 in) Triple Grouser Shoes		700 mm (28 in) Triple Grouser Shoes		790 mm (31 in) Triple Grouser Shoes	
	Weight kg (lb)	Ground Pressure kPa (psi)	Weight kg (lb)	Ground Pressure kPa (psi)	Weight kg (lb)	Ground Pressure kPa (psi)
4.2 mt (9,300 lb) Counterweight Base Machine						
Reach Boom + R2.9 (9'6") Stick + 1.0 m ³ (1.31 yd ³) GD Bucket	21 500 (47,400)	44.7 (6.5)	21 900 (48,300)	39.0 (5.7)	22 100 (48,700)	34.9 (5.1)

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

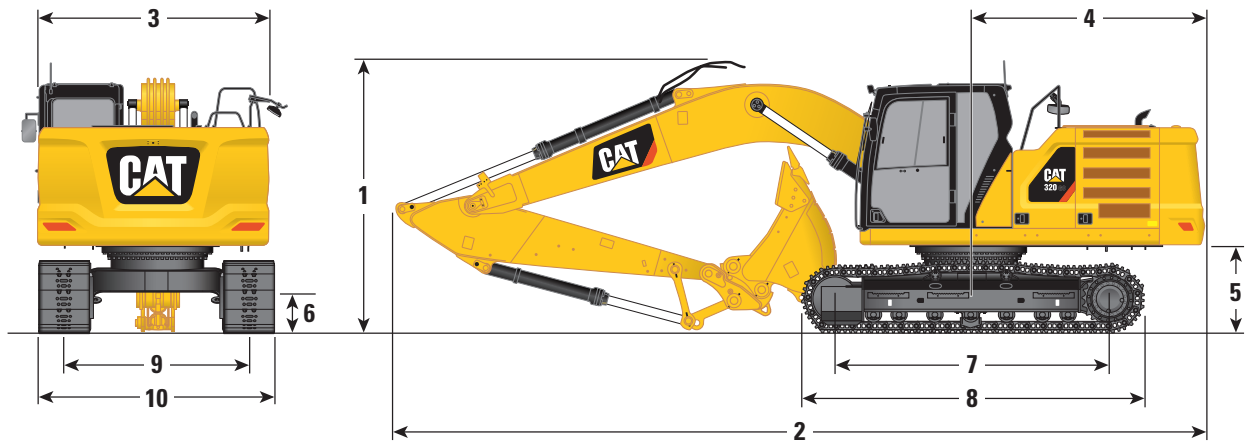
Major Component Weights

	kg	lb
Base Machine (with 4.2 mt [9,300 lb] counterweight, semi-HD 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.)	14 800	32,600
Track Shoes:		
600 mm (24 in) Width, 8.5 mm (0.33") Thick Triple Grouser Track Shoes	2600	5,700
700 mm (28 in) Width, 10 mm (0.39") Thick Triple Grouser Track Shoes	3020	6,700
790 mm (31 in) Width, 10 mm (0.39") Thick Triple Grouser Track Shoes with Step Extension for ISO 2867	3290	7,300
Two Boom Cylinders	340	700
Weight of 90% Fuel Tank and 75 kg (165 lb) Operator	310	700
Counterweight:		
4.2 mt (9,300 lb) Counterweight	4200	9,300
Swing Frame:		
Semi-HD Swing Frame	1910	4,200
Long Undercarriage without Track Shoes:		
Standard Base Frame with HD Track Rollers and Standard Carrier Rollers for Long Undercarriage	4390	9,700
Boom (including lines, pins, stick cylinder):		
Reach Boom 5.7 m (18'8")	1690	3,700
Sticks (including lines, pins, bucket cylinder, bucket linkage):		
Reach Stick (R2.5B1/8'2")	970	2,100
Reach Stick (R2.9B1/9'6")	980	2,200
Bucket (without linkage):		
1.0 m ³ (1.31 yd ³) GD	735	1,600
Quick Couplers:		
CW Dedicated QC	230	500
Pin Grabber QC	390	900

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")

Stick Options

Reach Stick
R2.9B1 (9'6")

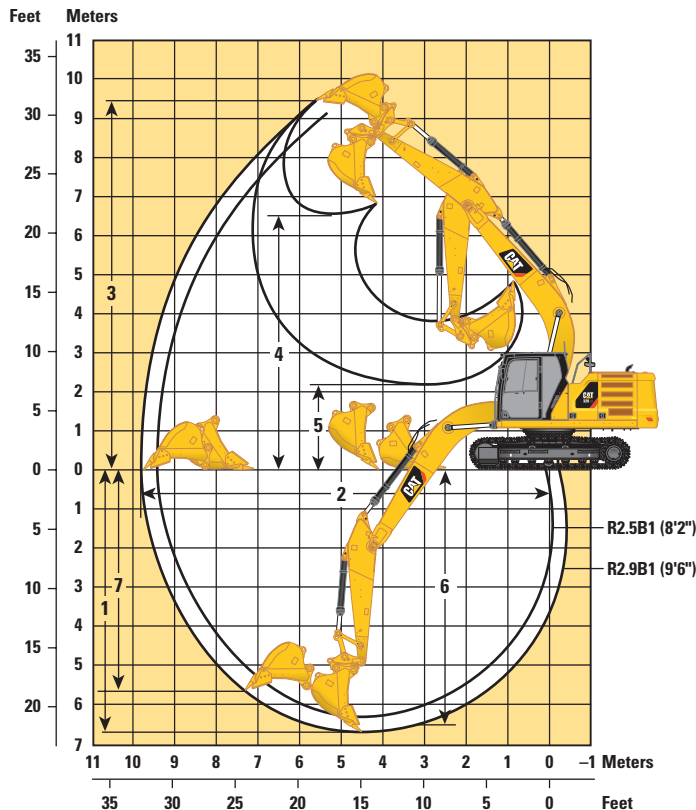
Reach Stick
R2.5B1 (8'2")

	Reach Stick R2.9B1 (9'6")	Reach Stick R2.5B1 (8'2")
1 Machine Height:		
Top of Cab Height	2960 mm 9'8"	2960 mm 9'8"
Top of FOGS Height	3100 mm 10'2"	3100 mm 10'2"
Handrails Height	2950 mm 9'8"	2950 mm 9'8"
With Boom/Stick/Bucket Installed	3160 mm 10'4"	3080 mm 10'1"
With Boom/Stick Installed	2910 mm 9'6"	2830 mm 9'3"
With Boom Installed	2480 mm 8'1"	2480 mm 8'1"
2 Machine Length:		
With Boom/Stick/Bucket Installed	9530 mm 31'3"	9530 mm 31'3"
With Boom/Stick Installed	9500 mm 31'1"	9480 mm 31'1"
With Boom Installed	8450 mm 27'8"	8450 mm 27'8"
3 Upperframe Width without Walkways	2780 mm 9'1"	2780 mm 9'1"
4 Tail Swing Radius	2830 mm 9'3"	2830 mm 9'3"
5 Counterweight Clearance	1050 mm 3'5"	1050 mm 3'5"
6 Ground Clearance	470 mm 1'6"	470 mm 1'6"
7 Length to Center of Rollers	3650 mm 11'11"	3650 mm 11'11"
8 Track Length	4450 mm 14'7"	4450 mm 14'7"
9 Track Gauge	2380 mm 7'9"	2380 mm 7'9"
10 Undercarriage Width (with steps/without steps):		
600 mm (24 in) Shoes	2980 mm 9'9"	2980 mm 9'9"
700 mm (28 in) Shoes	3080 mm 10'1"	3080 mm 10'1"
790 mm (31 in) Shoes	3170 mm 10'4"	3170 mm 10'4"
Bucket Type	GD	GD
Bucket Capacity	1.0 m ³ 1.31 yd ³	1.0 m ³ 1.31 yd ³
Bucket Tip Radius	1570 mm 5'1"	1570 mm 5'1"

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 Options

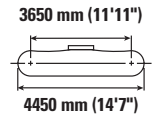
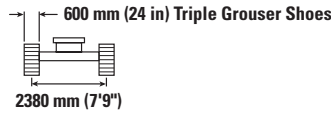
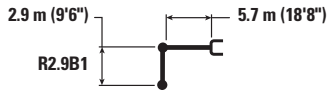
Reach Stick
R2.9B1 (9'6")

Reach Stick
R2.5B1 (8'2")

	Reach Stick R2.9B1 (9'6")		Reach Stick R2.5B1 (8'2")	
1 Maximum Digging Depth	6720 mm	22'0"	6300 mm	20'8"
2 Maximum Reach at Ground Line	9860 mm	32'4"	9470 mm	31'0"
3 Maximum Cutting Height	9450 mm	31'0"	9250 mm	30'4"
4 Maximum Loading Height	6490 mm	21'3"	6290 mm	20'7"
5 Minimum Loading Height	2170 mm	7'1"	2590 mm	8'5"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	6550 mm	21'5"	6110 mm	20'0"
7 Maximum Vertical Wall Digging Depth	5690 mm	18'8"	5290 mm	17'4"
Bucket Digging Force (ISO)	129 kN	28,935 lbf	129 kN	28,935 lbf
Stick Digging Force (ISO)	99 kN	22,281 lbf	110 kN	24,688 lbf
Bucket Type	GD		GD	
Bucket Capacity	1.0 m ³	1.31 yd ³	1.0 m ³	1.31 yd ³
Bucket Tip Radius	1570 mm	5'1"	1570 mm	5'1"

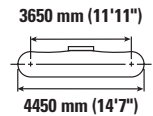
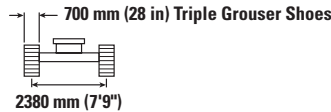
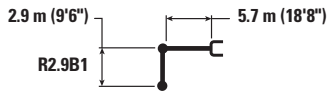
320 GC Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 4.2 mt (9,300 lb) – without Bucket



		1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		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 *10,900	*4950 *10,900			*3500 *7,650	*3500 *7,650	7290 290
4500 mm 180 in	kg lb							*5450 *11,850	5300 11,450	*5150 *10,950	3800 8,100	*3400 *7,500	3400 *7,500	7990 320
3000 mm 120 in	kg lb					*7950 *17,150	7750 16,700	*6250 *13,600	5100 10,950	*5450 *11,900	3700 7,900	*3500 *7,650	3100 6,850	8360 330
1500 mm 60 in	kg lb					*9650 *20,800	7250 15,650	*7100 *15,400	4850 10,500	5550 11,900	3550 7,650	*3700 *8,100	3000 6,600	8450 340
0 mm 0 in	kg lb			*5800 *13,250	*5800 *13,250	*10 600 *22,900	7000 15,050	7500 16,150	4700 10,150	5450 11,700	3500 7,500	*4100 *9,000	3050 6,750	8260 330
-1500 mm -60 in	kg lb	*6150 *13,800	*6150 *13,800	*10 000 *22,700	*10 000 *22,700	*10 700 *23,150	6900 14,850	7450 16,000	4650 10,000	5400 11,650	3450 7,450	*4800 *10,600	3300 7,250	7780 310
-3000 mm -120 in	kg lb	*10 600 *23,800	*10 600 *23,800	*14 150 *30,650	13 450 28,750	*10 000 *21,600	6950 15,000	*7450 *15,950	4650 10,050			6100 *13,400	3850 8,550	6950 280
-4500 mm -180 in	kg lb			*11 300 *24,200	*11 300 *24,200	*8150 *17,300	7150 15,450					*6150 *13,500	5300 11,950	5600 220

Reach Boom Lift Capacities – Counterweight: 4.2 mt (9,300 lb) – without Bucket



		1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		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 *10,900	*4950 *10,900			*3500 *7,650	*3500 *7,650	7290 290
4500 mm 180 in	kg lb							*5450 *11,850	5350 11,550	*5150 *10,950	3800 8,150	*3400 *7,500	3400 *7,500	7990 320
3000 mm 120 in	kg lb					*7950 *17,150	7800 16,850	*6250 *13,600	5150 11,050	*5450 *11,900	3700 8,000	*3500 *7,650	3150 6,950	8360 330
1500 mm 60 in	kg lb					*9650 *20,800	7350 15,800	*7100 *15,400	4900 10,600	5600 12,000	3600 7,750	*3700 *8,100	3050 6,700	8450 340
0 mm 0 in	kg lb			*5800 *13,250	*5800 *13,250	*10 600 *22,900	7050 15,200	7600 16,300	4750 10,250	5500 11,800	3500 7,550	*4100 *9,000	3100 6,800	8260 330
-1500 mm -60 in	kg lb	*6150 *13,800	*6150 *13,800	*10 000 *22,700	*10 000 *22,700	*10 700 *23,150	7000 15,000	7500 16,150	4700 10,050	5450 11,750	3500 7,500	*4800 *10,600	3350 7,350	7780 310
-3000 mm -120 in	kg lb	*10 600 *23,800	*10 600 *23,800	*14 150 *30,650	13 550 29,000	*10 000 *21,600	7050 15,150	*7450 *15,950	4700 10,150			6100 *13,400	3900 8,650	6950 280
-4500 mm -180 in	kg lb			*11 300 *24,200	*11 300 *24,200	*8150 *17,300	7250 15,600					*6150 *13,500	5350 12,050	5600 220



ISO 10567



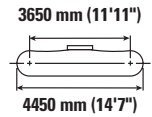
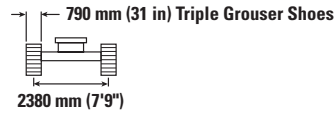
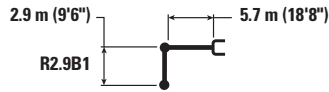
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories 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.

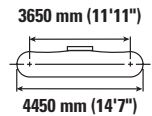
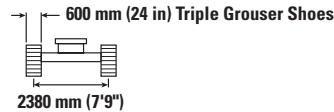
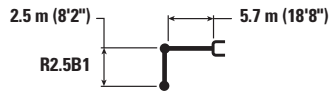
320 GC Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 4.2 mt (9,300 lb) – without Bucket



		1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		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 *10,900	*4950 *10,900			*3500 *7,650	*3500 *7,650	7290 290
4500 mm 180 in	kg lb							*5450 *11,850	5450 11,700	*5150 *10,950	3850 8,250	*3400 *7,500	*3400 *7,500	7990 320
3000 mm 120 in	kg lb					*7950 *17,150	7900 17,000	*6250 *13,600	5200 11,200	*5450 *11,900	3750 8,100	*3500 *7,650	3200 7,050	8360 330
1500 mm 60 in	kg lb					*9650 *20,800	7400 16,000	*7100 *15,400	5000 10,700	5650 12,150	3650 7,850	*3700 *8,100	3100 6,800	8450 340
0 mm 0 in	kg lb			*5800 *13,250	*5800 *13,250	*10 600 *22,900	7150 15,400	7700 16,550	4800 10,350	5550 11,950	3550 7,650	*4100 *9,000	3150 6,900	8260 330
-1500 mm -60 in	kg lb	*6150 *13,800	*6150 *13,800	*10 000 *22,700	*10 000 *22,700	*10 700 *23,150	7050 15,200	7600 16,350	4750 10,200	5550 11,900	3550 7,650	*4800 *10,600	3400 7,450	7780 310
-3000 mm -120 in	kg lb	*10 600 *23,800	*10 600 *23,800	*14 150 *30,650	13 700 29,400	*10 000 *21,600	7150 15,350	*7450 *15,950	4750 10,300			*6100 *13,400	3950 8,750	6950 280
-4500 mm -180 in	kg lb			*11 300 *24,200	*11 300 *24,200	*8150 *17,300	7300 15,800					*6150 *13,500	5450 12,200	5600 220

Reach Boom Lift Capacities – Counterweight: 4.2 mt (9,300 lb) – without Bucket



		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
7500 mm 300 in	kg lb									*4550 *10,100	*4550 *10,100	5600 220
6000 mm 240 in	kg lb					*5400 *11,800	*5400 11,600			*4150 *9,150	*4150 *9,150	6830 270
4500 mm 180 in	kg lb			*6750 *14,600	*6750 *14,600	*5800 *12,650	5250 11,350	*4600 *10,950	3750 8,250	*4050 *8,950	3700 8,150	7570 300
3000 mm 120 in	kg lb			*8500 *18,350	7600 16,450	*6600 *14,250	5050 10,850	5600 12,050	3650 7,850	*4150 *9,150	3350 7,350	7960 320
1500 mm 60 in	kg lb			*10 050 *21,700	7200 15,500	*7350 *15,900	4850 10,450	5500 11,850	3550 7,650	*4450 *9,750	3250 7,100	8050 320
0 mm 0 in	kg lb			*10 750 *23,200	7000 15,000	7500 16,150	4700 10,150	5450 11,700	3500 7,500	*4950 *10,950	3300 7,250	7860 310
-1500 mm -60 in	kg lb	*10 550 *23,950	*10 550 *23,950	*10 600 *22,950	6950 14,950	7450 16,050	4650 10,050			5600 12,350	3600 7,900	7350 290
-3000 mm -120 in	kg lb	*13 300 *28,800	*13 300 *28,800	*9650 *20,800	7050 15,150	*7100 *15,250	4700 10,200			*6400 *14,050	4300 9,550	6470 260
-4500 mm -180 in	kg lb			*7200 *15,100	*7200 *15,100					*6250 *13,650	*6250 *13,650	4980 200



ISO 10567



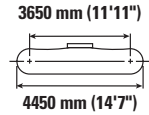
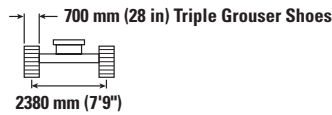
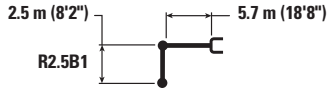
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories 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.

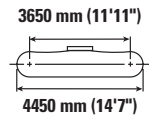
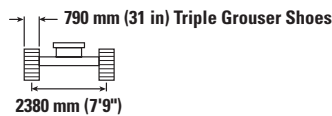
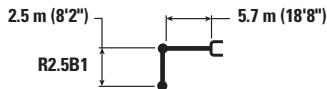
320 GC Hydraulic Excavator Specifications

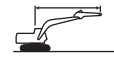










Reach Boom Lift Capacities – Counterweight: 4.2 mt (9,300 lb) – without Bucket



		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				mm in
												
7500 mm 300 in	kg lb									*4550 *10,100	*4550 *10,100	5600 220
6000 mm 240 in	kg lb					*5400 *11,800	*5400 11,700			*4150 *9,150	*4150 *9,150	6830 270
4500 mm 180 in	kg lb			*6750 *14,600	*6750 *14,600	*5800 *12,650	5300 11,450	*4600	3750	*4050 *8,950	3700 8,200	7570 300
3000 mm 120 in	kg lb			*8500 *18,350	7700 16,550	*6600 *14,250	5100 10,950	5700 12,200	3700 7,950	*4150 *9,150	3400 7,450	7960 320
1500 mm 60 in	kg lb			*10 050 *21,700	7250 15,600	*7350 *15,900	4900 10,500	5550 12,000	3600 7,750	*4450 *9,750	3250 7,150	8050 320
0 mm 0 in	kg lb			*10 750 *23,200	7050 15,150	*7600 16,300	4750 10,200	5500 11,850	3550 7,600	*4950 *10,950	3350 7,300	7860 310
-1500 mm -60 in	kg lb	*10 550 *23,950	*10 550 *23,950	*10 600 *22,950	7000 15,100	7550 16,200	4700 10,150			5650 12,450	3600 8,000	7350 290
-3000 mm -120 in	kg lb	*13 300 *28,800	*13 300 *28,800	*9650 *20,800	7100 15,250	*7100 *15,250	4750 10,300			*6400 *14,050	4350 9,650	6470 260
-4500 mm -180 in	kg lb			*7200 *15,100	*7200 *15,100					*6250 *13,650	*6250 *13,650	4980 200

Reach Boom Lift Capacities – Counterweight: 4.2 mt (9,300 lb) – without Bucket



		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				mm in
												
7500 mm 300 in	kg lb									*4550 *10,100	*4550 *10,100	5600 220
6000 mm 240 in	kg lb					*5400 *11,800	*5400 *11,800			*4150 *9,150	*4150 *9,150	6830 270
4500 mm 180 in	kg lb			*6750 *14,600	*6750 *14,600	*5800 *12,650	5400 11,550	*4600	3800	*4050 *8,950	3750 8,300	7570 300
3000 mm 120 in	kg lb			*8500 *18,350	7800 16,750	*6600 *14,250	5150 11,100	*5700 12,350	3750 8,050	*4150 *9,150	3400 7,550	7960 320
1500 mm 60 in	kg lb			*10 050 *21,700	7350 15,800	*7350 *15,900	4950 10,650	5650 12,150	3650 7,850	*4450 *9,750	3300 7,250	8050 320
0 mm 0 in	kg lb			*10 750 *23,200	7150 15,350	7700 16,500	4800 10,350	5550 12,000	3600 7,700	*4950 *10,950	3350 7,400	7860 310
-1500 mm -60 in	kg lb	*10 550 *23,950	*10 550 *23,950	*10 600 *22,950	7100 15,300	7650 16,400	4750 10,250			5750 12,650	3650 8,100	7350 290
-3000 mm -120 in	kg lb	*13 300 *28,800	*13 300 *28,800	*9650 *20,800	7200 15,450	*7100 *15,250	4850 10,400			*6400 *14,050	4400 9,750	6470 260
-4500 mm -180 in	kg lb			*7200 *15,100	*7200 *15,100					*6250 *13,650	*6250 *13,650	4980 200



ISO 10567



* 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 %	4.2 mt (9,300 lb) Counterweight	
		mm	in	m ³	yd ³	kg	lb		Reach Boom	
									R2.5 (8'2")	R2.9 (9'6")
Pin-On (No Quick Coupler)										
General Duty (GD) – EU	B	600	24	0.46	0.61	555	1,223	100	●	●
	B	750	30	0.64	0.84	626	1,380	100	●	●
	B	1200	48	1.19	1.56	812	1,789	100	●	⊙
	B	1300	51	1.30	1.70	835	1,841	100	●	⊙
	B	1400	55	1.43	1.87	879	1,937	100	X	X
General Duty (GD) – UK/ANZ	B	600	24	0.46	0.60	550	1,212	100	●	●
	B	750	30	0.64	0.84	621	1,368	100	●	●
	B	1000	39	0.93	1.22	717	1,580	100	●	●
	B	1200	48	1.19	1.56	807	1,778	100	●	⊙
	B	1400	55	1.43	1.87	874	1,926	100	X	X
	B	1500	60	1.58	2.06	914	2,014	100	X	X
	B	1050	42	1.00	1.31	892	1,967	100	●	●
	B	1200	48	1.19	1.56	917	2,022	100	●	⊙
	B	1300	52	1.30	1.70	974	2,148	100	⊙	⊖
	B	1050	42	1.00	1.31	948	2,091	90	●	●
Sever Duty (SDV)	B	1200	48	1.20	1.57	1011	2,229	90	●	●
	B	2000	78	1.22	1.60	869	1,916	100	●	⊙
	B	2000	79	1.23	1.61	1096	2,417	100	⊙	⊖
General Duty (GD)	312	900	36	0.53	0.69	403	888	100		
Ditch Cleaning (DC) Long Reach	312	1200	48	0.57	0.74	386	851	100		
Maximum load with pin-on (payload + bucket)								kg	3440	3180
								lb	7,584	7,011

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)
- 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.

(continued on next page)

320 GC Hydraulic Excavator Specifications

Bucket Specifications and Compatibility *(continued)*

	Linkage	Width		Capacity		Weight		Fill	4.2 mt (9,300 lb) Counterweight	
		mm	in	m ³	yd ³	kg	lb		%	Reach Boom
With Cat Pin Grabber Coupler										
General Duty (GD) – EU	B	600	24	0.46	0.61	555	1,223	100	●	●
	B	750	30	0.64	0.84	626	1,380	100	●	●
	B	1200	48	1.19	1.56	812	1,789	100	⊙	⊖
	B	1300	51	1.30	1.70	835	1,841	100	⊖	⊖
	B	1400	55	1.43	1.87	879	1,937	100	⊖	○
General Duty (GD) – UK/ANZ	B	600	24	0.46	0.60	550	1,212	100	●	●
	B	750	30	0.64	0.84	621	1,368	100	●	●
	B	1000	39	0.93	1.22	717	1,580	100	●	●
	B	1200	48	1.19	1.56	807	1,778	100	⊙	⊖
	B	1400	55	1.43	1.87	874	1,926	100	⊖	○
	B	1500	60	1.58	2.06	914	2,014	100	○	○
	B	1050	42	1.00	1.31	892	1,967	100	●	⊙
	B	1200	48	1.19	1.56	917	2,022	100	⊙	⊖
	B	1300	52	1.30	1.70	974	2,148	100	⊖	○
	B	1050	42	1.00	1.31	948	2,091	90	●	●
Sever Duty (SDV)	B	1200	48	1.20	1.57	1011	2,229	90	⊙	⊖
	B	2000	78	1.22	1.60	869	1,916	100	⊙	⊖
	B	2000	79	1.23	1.61	1096	2,417	100	⊖	○
Maximum load with coupler (payload + bucket)								kg	3019	2760
								lb	6,657	6,086

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)

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.

(continued on next page)

320 GC Hydraulic Excavator Specifications

Bucket Specifications and Compatibility (continued)

	Linkage	Width		Capacity		Weight		Fill %	4.2 mt (9,300 lb) Counterweight	
		mm	in	m ³	yd ³	kg	lb		Reach Boom	
									R2.5 (8'2")	R2.9 (9'6")
With CW-40 Quick Coupler										
General Duty (GD)	B	900	36	0.81	1.06	664	1,463	100	●	●
	B	1050	42	1.00	1.31	711	1,567	100	●	●
	B	1200	48	1.19	1.56	781	1,721	100	●	⊙
	B	1300	51	1.30	1.70	813	1,791	100	⊙	⊖
Heavy Duty (HD)	B	600	24	0.46	0.61	618	1,363	100	●	●
	B	1200	48	1.19	1.56	886	1,953	100	⊙	⊙
	B	1300	52	1.30	1.71	944	2,081	100	X	X
Ditch Cleaning (DC)	B	2100	83	1.29	1.69	792	1,746	100	⊙	⊖
	B	2100	83	1.46	1.91	809	1,784	100	⊖	⊖
	B	1800	72	1.50	1.96	775	1,709	100	⊖	⊖
	B	1800	72	1.50	1.96	737	1,624	100	⊖	⊖
	B	2100	83	1.76	2.31	864	1,905	100	○	○
Ditch Cleaning – Tilt (DCT)	B	2000	79	1.23	1.61	1161	2,560	100	⊖	⊖
Maximum load with coupler (payload + bucket)								kg	3191	2932
								lb	7,035	6,464
With CW-40S Quick Coupler										
General Duty (GD)	B	600	24	0.46	0.61	508	1,119	100	●	●
	B	750	30	0.64	0.84	592	1,305	100	●	●
	B	900	36	0.81	1.06	661	1,457	100	●	●
	B	1300	51	1.30	1.70	810	1,785	100	⊙	⊖
	B	1400	55	1.43	1.87	845	1,862	100	⊖	⊖
Heavy Duty (HD)	B	600	24	0.46	0.61	585	1,289	100	●	●
	B	1200	48	1.19	1.56	875	1,928	100	⊙	⊙
	B	1300	52	1.30	1.70	931	2,052	100	X	X
Ditch Cleaning (DC)	B	2000	78	1.22	1.60	815	1,797	100	⊙	⊙
	B	2200	87	1.36	1.78	880	1,940	100	⊙	⊖
Ditch Cleaning – Tilt (DCT)	B	2000	79	1.23	1.61	1142	2,518	100	⊖	⊖
Maximum load with coupler (payload + bucket)								kg	3209	2949
								lb	7,075	6,501

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)
- 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

PIN-ON ATTACHMENTS

Counterweight		4.2 mt (9,300 lb)	
Boom Type		Reach Boom	
Stick Length		2.5 m (8'2")	2.9 m (9'6")
Hydraulic Hammers	H115Es	✓	✓
	H120 GC S	✓	✓
	H120Es	✓	✓
	H130Es	✓	✓†
Multi-Processors	MP318 CC Jaw	✓	✓
	MP318 D Jaw	✓	✓
	MP318 P Jaw	✓	✓
	MP318 S Jaw	✓	✓
	MP318 U Jaw	✓	✓
Pulverizers	P215	✓	✓
Crushers	P315	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓
Mobile Scrap and Demolition Shears	S3025	✓	✓
Demolition and Sorting Grapples	G315B	✓	✓
Orange Peel Grapples		✓	✓
Rippers		✓	✓
CW Dedicated Couplers		✓	✓
Cat Pin Grabber Couplers		✓	✓

†Allowed usage on machine less than 50%

(continued on next page)

320 GC Hydraulic Excavator Specifications

Attachments Offering Guide *(continued)*

CAT PIN GRABBER COUPLER ATTACHMENTS

Counterweight		4.2 mt (9,300 lb)	
Boom Type		Reach Boom	
Stick Length		2.5 m (8'2")	2.9 m (9'6")
Hydraulic Hammers	H115Es	✓†	✓†
	H120 GC S	✓	✓
	H120Es	✓†	✓†
	H130Es	✓†	✓†
Multi-Processors	MP318 CC Jaw	✓	✓
	MP318 D Jaw	✓	✓
	MP318 P Jaw	✓	✓
	MP318 S Jaw	✓	✓
	MP318 U Jaw	✓	✓
Pulverizers	P215	✓	✓
Crushers	P315	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓
Mobile Scrap and Demolition Shears	S3025	✓	✓*
Demolition and Sorting Grapples	G315B	✓	✓
Orange Peel Grapples		✓	✓
Rippers		✓	✓

*Working range front only

†Allowed usage on machine less than 50%

(continued on next page)

320 GC Hydraulic Excavator Specifications

Attachments Offering Guide *(continued)*

CW-40 COUPLER ATTACHMENTS

Counterweight		4.2 mt (9,300 lb)	
Boom Type		Reach Boom	
Stick Length		2.5 m (8'2")	2.9 m (9'6")
Hydraulic Hammers	H115Es	✓†	✓†
	H120Es	✓†	✓†
	H130Es	✓†	✓†
Multi-Processors	MP318 CC Jaw	✓	✓
	MP318 D Jaw	✓	✓
	MP318 P Jaw	✓	✓
	MP318 S Jaw	✓	✓
	MP318 U Jaw	✓	✓
Pulverizers	P215	✓	✓
Crushers	P315	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓
Mobile Scrap and Demolition Shears	S3025	✓	✓
Demolition and Sorting Grapples	G315B	✓	✓
Orange Peel Grapples		✓	✓
Rippers		✓	✓

*Working range front only

†Allowed usage on machine less than 50%

(continued on next page)

320 GC Hydraulic Excavator Specifications

Attachments Offering Guide *(continued)*

CW-40s COUPLER ATTACHMENTS

Counterweight		4.2 mt (9,300 lb)	
Boom Type		Reach Boom	
Stick Length		2.5 m (8'2")	2.9 m (9'6")
Hydraulic Hammers	H115Es	✓†	✓†
	H120Es	✓†	✓†
	H130Es	✓†	✓†
Multi-Processors	MP318 CC Jaw	✓	✓
	MP318 D Jaw	✓	✓
	MP318 P Jaw	✓	✓
	MP318 S Jaw	✓	✓
	MP318 U Jaw	✓	✓
Pulverizers	P215	✓	✓
Crushers	P315	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓
Mobile Scrap and Demolition Shears	S3025	✓	✓
Demolition and Sorting Grapples	G315B	✓	✓
Orange Peel Grapples		✓	✓
Rippers		✓	✓

*Working range front only

†Allowed usage on machine less than 50%

BOOM-MOUNT ATTACHMENTS

Undercarriage		Long
Counterweight		4.2 mt (9,300 lb)
Boom Type		Reach Boom
Mobile Scrap and Demolition Shears	S2050	✓
	S3035	✓

320 GC Standard and Optional Equipment

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
CAB			ENGINE		
ROPS, standard sound suppression	✓		Cat C4.4 single turbo diesel engine	✓	
High-resolution 203 mm (8") LCD touchscreen monitor	✓		Two selectable power modes	✓	
Automatic bi-level air conditioner	✓		One-touch low idle with automatic engine speed control	✓	
Jog dial and shortcut keys for monitor control	✓		Automatic engine idle shutdown	✓	
Keyless push-to-start engine control	✓		Work up to 3000 m (9,842.5 ft) above sea level without engine power de-rating	✓	
Height-adjustable console, three steps with tool	✓		52° C (125° F) high-ambient cooling capacity	✓	
Fixed left-side console	✓		Cold starting capability for -32° C (-25° F)	✓	
Mechanically adjustable seat suspension	✓		Double element air filter with integrated precleaner	✓	
51 mm (2") orange seat belt	✓		Electric fuel priming pump	✓	
Bluetooth® integrated radio (no USB, aux port or microphone)	✓		On-demand electric cooling fans with auto-reverse function	✓	
12V DC outlets	✓		Biodiesel capability up to B20	✓	
Document storage	✓		HYDRAULIC SYSTEM		
Cup and bottle holders	✓		Boom and stick regeneration circuits	✓	
Openable two-piece front window	✓		Boom/stick lowering check valves	✓	
Upper radial wiper with washer	✓		SmartBoom™	✓	
Openable steel hatch	✓		Electronic main control valve	✓	
LED dome light	✓		Auto hydraulic oil warm up	✓	
Roller front sunscreen	✓		Automatic two-speed travel	✓	
Roller rear sunscreen		✓	Boom and stick drift reduction valve	✓	
Rear window emergency exit	✓		Element type main hydraulic filter	✓	
Washable floor mat	✓		Slider joysticks	✓	
Beacon ready	✓		Tandem type electronic main pump	✓	
			Tool Control (two pumps, one/two way high-pressure flow)	✓	
			Medium Pressure Circuit		✓
			Quick coupler circuit for Cat Pin Grabber and CW Dedicated	✓	

(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
UNDERCARRIAGE AND STRUCTURES			CAT TECHNOLOGY		
Track guiding guard, segmented two piece	✓		Cat Product Link™	✓	
Standard bottom guards	✓		Auto hammer stop	✓	
Standard travel motor guards	✓		SERVICE AND MAINTENANCE		
Grease lubricated track links	✓		Sampling ports for Scheduled Oil Sampling (S·O·S SM)	✓	
4.2 mt (9,300 lb) counterweight	✓		Grouped location for engine oil and fuel filters	✓	
Semi-HD swing frame	✓		Ground level second dipstick for engine oil	✓	
Standard swing bearing	✓		Side entry to service platform	✓	
Base frame with HD track rollers and standard carrier rollers	✓		Electric Refueling Pump with Auto Shut Off	✓	
Final drive with bio oil capable travel motor	✓		SAFETY AND SECURITY		
BOOM, STICKS AND LINKAGES			Rear and RH sideview camera	✓	
600 mm (24 in) triple grouser track shoes		✓	Cab mirror for RH side track edge	✓	
700 mm (28 in) triple grouser track shoes		✓	Cat asset tracker		✓
790 mm (31 in) triple grouser track shoes		✓	Neutral lever (lock out) for all controls	✓	
900 mm triple grouser track shoes		✓	Anti-skid plate and countersunk bolts on service platform	✓	
5.7 m (18'8") Reach boom	✓		Ground-level accessible secondary engine shutoff switch in cab	✓	
2.9 m (9'6") Reach stick		✓	RH handrail and hand hold (ISO 2867:2011 compliant)	✓	
2.5 m (8'2") Reach stick		✓	FOGS guards		✓
Bucket linkage, B1-family with lifting eye		✓			
Bucket linkage, B1-family without lifting eye		✓			
ELECTRICAL SYSTEM					
1,000 CCA maintenance-free batteries (×2)	✓				
Centralized electrical disconnect switch	✓				
Programmable time-delay LED working lights	✓				
LED chassis light, LH and RH boom lights for Reach, cab lights	✓				

320 GC Attachments

Dealer Installed Kit and Attachments

Attachments may vary. Consult your Cat dealer for details.

CAB

- Radial lower wiper for 70/30 with washer
- LH/RH electrical pedal for tool control
- Polycarbonate roof hatch
- P5A laminated glass front windshield and roof hatch (for EU demolition regulation)

SAFETY AND SECURITY

- Bluetooth receiver kit

HYDRAULIC

- Tool Control (two pumps, one/two way high-pressure flow)
- Medium Pressure Circuit
- Common Quick Coupler Circuit for Cat Pin Grabber and CW Dedicated

GUARDS

- Standard swivel guard
- 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

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

© 2019 Caterpillar
All rights reserved

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, "Caterpillar Yellow," the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

AEXQ2215-03 (12-2019)
Replaces AEXQ2215-02
Build Number: 07C
(Europe)

