



320 GX

Hydraulic Excavator

Technical Specifications

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

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320 GX Hydraulic Excavator Specifications

Engine

Engine Model	Cat® C4.4	
Net Power		
ISO 9249	103.6 kW	139 hp
ISO 9249 (DIN)	141 hp (metric)	
Engine Power		
ISO 14396	108 kW	145 hp
ISO 14396 (DIN)	147 hp (metric)	
Bore	105 mm	4 in
Stroke	127 mm	5 in
Displacement	4.4 L	269 in ³
Biodiesel Capability	Up to B20 ⁽¹⁾	

- Cat C4.4 engine meets UN ECE R96 Stage IIIA 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 ft).
- Advertised power is tested per the specified standard in effect at the time of manufacture.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system and alternator.
- Engine speed at 2,000 rpm.

⁽¹⁾Cat engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels** up to:

- ✓ 100% biodiesel FAME (fatty acid methyl ester)*
- ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels

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

*For use of blends higher than 20% biodiesel, consult your Cat dealer.

**Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

Swing Mechanism

Swing Speed	11.07 rpm	
Maximum Swing Torque	74 kN·m	54,580 lbf·ft

Weights

Operating Weight	19 800 kg	43,700 lb
<ul style="list-style-type: none"> • Reach boom, R2.7 (8'9") stick, General Duty (GD) 0.93 m³ (1.22 yd³) bucket, 600 mm (24") triple grouser shoes, and 3600 kg (7,940 lb) counterweight. 		
Operating Weight	20 400 kg	45,000 lb
<ul style="list-style-type: none"> • Reach boom, R2.7 (8'9") stick, GD 0.93 m³ (1.22 yd³) bucket, 790 mm (31") triple grouser shoes, and 3600 kg (7,940 lb) counterweight. 		
Operating Weight	19 800 kg	43,700 lb
<ul style="list-style-type: none"> • Reach boom, R2.5 (8'2") stick, GD 1.00 m³ (1.31 yd³) bucket, 600 mm (24") triple grouser shoes, and 3600 kg (7,940 lb) counterweight. 		

Track

Optional Track Shoes Width	600 mm	24 in
Optional Track Shoes Width	790 mm	31 in
Optional Track Shoes Width	800 mm	31 in
Number of Shoes (each side)	45	
Number of Track Rollers (each side)	7	
Number of Carrier Rollers (each side)	2	

Drive

Maximum Gradeability	35° ±70%	
Maximum Travel Speed	5.7 km/h	3.5 mph
Maximum Drawbar Pull	201 kN	45,187 lbf

Hydraulic System

Main System – Maximum Flow – Implement	429 L/min (214.5 L/min × 2 pumps)	113 gal/min (56.7 gal/min × 2 pumps)
Maximum Pressure – Equipment – Normal	35 000 kPa	5,075 psi
Maximum Pressure – Travel	35 000 kPa	5,075 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	1493 mm	59 in
Bucket Cylinder – Bore	115 mm	5 in
Bucket Cylinder – Stroke	1104 mm	43 in

Service Refill Capacities

Fuel Tank Capacity	390 L	103.0 gal
Cooling System	24.5 L	6.5 gal
Engine Oil	15 L	4.0 gal
Swing Drive	5.5 L	1.5 gal
Final Drive (each)	4.5 L	1.2 gal
Hydraulic System (including tank)	218 L	57.6 gal
Hydraulic Tank (including suction pipe)	115 L	30.4 gal

Standards

Brakes	ISO 10265:2008
Cab/Operator Protective Guards (OPG) (Optional)	ISO 10262:1998 Level II

320 GX Hydraulic Excavator Specifications

Sound Performance

ISO 6395:2008 (External) 102 dB(A)

ISO 6396:2008 (Inside Cab) 70 dB(A)

- External Sound – The spectator sound power level is measured according to the test procedures and conditions specified in ISO 6395:2008 for a Cat machine that is properly equipped and maintained.
- Internal Sound – The operator sound pressure level is measured according to the test procedures and conditions specified in ISO 6396:2008 for a cab offered by Caterpillar, when properly installed and maintained and tested with the door and windows closed.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained for doors/windows open) for extended periods or in noisy environment(s).

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.85 kg of refrigerant, which has a CO₂ equivalent of 1.216 metric tonnes.

Operating Weights and Ground Pressures

	600 mm (24 in) Triple Grouser Shoes		790 mm (31 in) Triple Grouser Shoes		800 mm (31 in) Triple Grouser Shoes	
	Weight	Ground Pressure	Weight	Ground Pressure	Weight	Ground Pressure
Base Machine Configurations	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)
Base Frame with Track Rollers and Carrier Rollers						
3600 kg (7,940 lb) Counterweight + Standard Undercarriage Base Machine						
Reach Boom + R2.7B1 (8'9") Stick + 0.93 m ³ (1.22 yd ³) GD Bucket with J-tips	19 800 (43,700)	45.6 (6.6)	20 400 (45,000)	35.7 (5.2)	20 400 (45,000)	35.2 (5.2)
Reach Boom + R2.5B1 (8'2") Stick + 1.00 m ³ (1.31 yd ³) GD Bucket with Advansys™ Tips	19 800 (43,700)	45.6 (6.6)	20 400 (45,000)	35.7 (5.2)	—	—
Reach Boom + R2.7B1 (8'9") Stick + 0.90 m ³ (1.18 yd ³) GD Bucket with Advansys Tips	19 800 (43,700)	45.6 (6.6)	20 400 (45,000)	35.7 (5.2)	20 600 (45,000)	35.2 (5.2)

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

320 GX Hydraulic Excavator Specifications

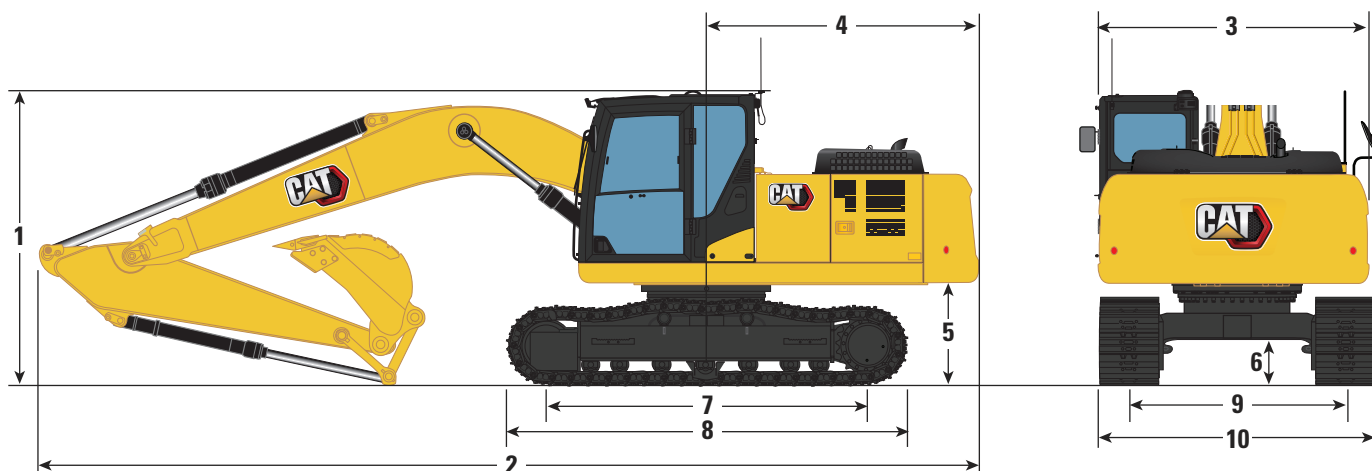
Major Component Weights

	kg	lb
Base Machine (with 3600 kg [7,940 lb] counterweight, upper frame, standard undercarriage with rollers and two boom cylinders – does not include boom, stick, bucket, stick cylinder, bucket cylinder, tracks, 90% fuel tank and 75 kg [165 lb] operator).	13 570	29,910
Track Shoes:		
600 mm (24") Width, 8.5 mm (0.33") Thick Triple Grouser Track Shoes	2390	5,270
790 mm (31") Width, 10 mm (0.39") Thick Triple Grouser Track Shoes with Step Extension	3010	6,640
800 mm (31") Width, 10 mm (0.39") Thick Triple Grouser Track Shoes with Step Extension	3050	6,700
Two Boom Cylinders	360	800
Weight of 90% Fuel Tank and 75 kg (165 lb) Operator	380	840
Counterweight:		
3600 kg (7,940 lb) Counterweight	3600	7,940
Boom (including cylinder lines, pins, stick cylinder):		
Reach Boom 5.7 m (18'8")	1650	3,600
High Pressure (HP) tool control lines for Reach Boom 5.7 m (18'8")	80	180
Sticks (including cylinder lines, pins, bucket cylinder, bucket linkage):		
Reach Stick R2.5B1 (8'2")	1000	2,190
Reach Stick R2.7B1 (8'9")	1030	2,260
HP tool control lines for Reach Stick R2.5B1 (8'2")	50	100
HP tool control lines for Reach Stick R2.7B1 (8'9")	60	120
Buckets (without linkage, with tips and side cutters):		
0.90 m ³ (1.18 yd ³) GD with Advansys Tips	740	1,640
0.90 m ³ (1.18 yd ³) GD with J-tips	780	1,720
0.90 m ³ (1.18 yd ³) Utility Duty (UD) with J-tips	750	1,650
0.93 m ³ (1.22 yd ³) GD with J-tips	770	1,690
1.00 m ³ (1.31 yd ³) GD with Advansys Tips	790	1,750

320 GX Hydraulic Excavator Specifications

Dimensions

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

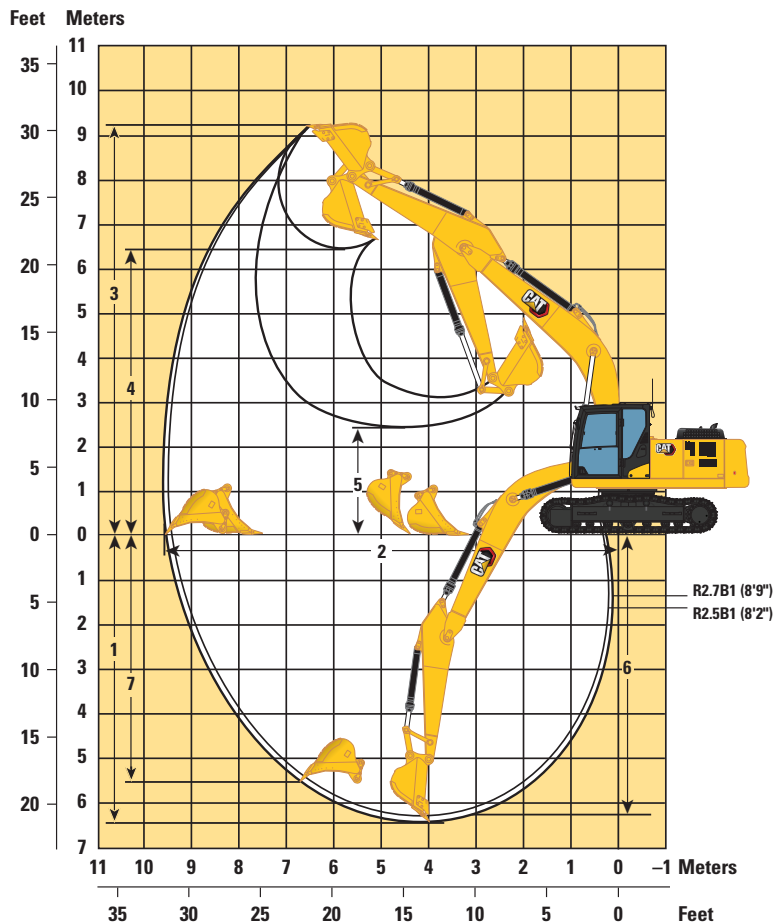


Boom Option			Reach Boom 5.7 m (18'8")		
Stick Options		Reach Stick			
		R2.5B1 (8'2")		R2.7B1 (8'9")	
1 Machine Height					
Top of Cab Height		2960 mm	9'9"	2960 mm	9'9"
Top of OPG Height		3150 mm	10'4"	3150 mm	10'4"
Handrail Height		3010 mm	9'11"	3010 mm	9'11"
With Boom/Stick/Bucket Installed		3240 mm	10'7"	3130 mm	10'3"
With Boom/Stick Installed		3010 mm	9'11"	3010 mm	9'11"
With Boom Installed		3010 mm	9'11"	3010 mm	9'11"
2 Machine Length					
With Boom/Stick/Bucket Installed		9580 mm	31'5"	9570 mm	31'5"
With Boom/Stick Installed		9540 mm	31'4"	9560 mm	31'4"
With Boom Installed		8510 mm	27'11"	8510 mm	27'11"
3 Upperframe Width		2740 mm	9'0"	2740 mm	9'0"
4 Tail Swing Radius		2830 mm	9'3"	2830 mm	9'3"
5 Counterweight Clearance		1040 mm	3'5"	1040 mm	3'5"
6 Ground Clearance		460 mm	1'6"	460 mm	1'6"
7 Track Length – Length to Center of Rollers		3270 mm	10'9"	3270 mm	10'9"
8 Track Length – Crawler Overall Length		4080 mm	13'5"	4080 mm	13'5"
9 Track Gauge		2200 mm	7'3"	2200 mm	7'3"
10 Undercarriage Width					
600 mm (24") Shoes		2800 mm	9'2"	2800 mm	9'2"
790 mm (31") Shoes		2990 mm	9'10"	2990 mm	9'10"
800 mm (31") Shoes		—	—	2990 mm	9'10"
Bucket Type		GD		GD	
Bucket Capacity		1.00 m³	1.31 yd³	0.93 m³	1.22 yd³
Bucket Tip Radius		1572 mm	5'2"	1495 mm	4'11"

320 GX Hydraulic Excavator Specifications

Working Ranges and Forces

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



Boom Option

Reach Boom
5.7 m (18'8")

Stick Options

Reach Stick

	R2.5B1 (8'2")		R2.7B1 (8'9")	
1 Maximum Digging Depth	6310 mm	20'8"	6430 mm	21'1"
2 Maximum Reach at Ground Line	9470 mm	31'1"	9580 mm	31'5"
3 Maximum Cutting Height	9240 mm	30'4"	9290 mm	30'6"
4 Maximum Loading Height	6280 mm	20'7"	6450 mm	21'2"
5 Minimum Loading Height	2580 mm	8'6"	2460 mm	8'1"
6 Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	6120 mm	20'1"	6250 mm	20'6"
7 Maximum Vertical Wall Digging Depth	5380 mm	17'8"	5510 mm	18'1"
Minimum Working Equipment Radius	3700 mm	12'2"	3680 mm	12'1"
Bucket Digging Force (ISO)	130 kN	29,230 lbf	136 kN	30,570 lbf
Stick Digging Force (ISO)	110 kN	24,730 lbf	106 kN	23,830 lbf
Bucket Type	GD		GD	
Bucket Capacity	1.00 m ³	1.31 yd ³	0.93 m ³	1.22 yd ³
Bucket Tip Radius	1572 mm	5'2"	1495 mm	4'11"

320 GX Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 3600 kg (7,940 lb) – without Bucket

		3.0 m/10'0"		4.5 m/15'0"		6.0 m/20'0"		7.5 m/25'0"				
											m ft/in	
7.5 m 25'0"	kg lb									*4550 *10,100	*4550 *10,100	5.59 17'11"
6.0 m 20'0"	kg lb					*5400 *11,850	4400 9,450			*4150 *9,150	3550 7,900	6.82 22'2"
4.5 m 15'0"	kg lb			*6800 *14,600	6600 14,250	*5850 *12,700	4250 9,200	4400	3000	*4050 *8,950	2950 6,550	7.56 24'9"
3.0 m 10'0"	kg lb			*8550 *18,350	6100 13,200	6100 13,050	4050 8,750	4350 9,300	2950 6,300	3950 8,700	2650 5,850	7.96 26'1"
1.5 m 5'0"	kg lb			9000 19,400	5700 12,300	5850 12,600	3850 8,300	4250 9,100	2850 6,100	3800 8,400	2550 5,600	8.05 26'5"
0 m 0'0"	kg lb			8800 18,900	5500 11,850	5700 12,250	3750 8,050	4150 8,950	2800 5,950	3900 8,600	2600 5,750	7.86 25'9"
-1.5 m -5'0"	kg lb	*10 500 *23,900	*10 400 22,250	8750 18,800	5500 11,800	5650 12,150	3700 7,950			4300 9,450	2850 6,250	7.35 24'1"
-3.0 m -10'0"	kg lb	*13 350 *28,900	10 550 22,650	8850 19,000	5550 11,950	5750 12,350	3750 8,100			5200 11,500	3450 7,600	6.46 21'1"
-4.5 m -15'0"	kg lb			*7250 *15,200	5800 12,550					*6250 *13,750	5050 11,450	4.98 16'0"



ISO 10567:2007



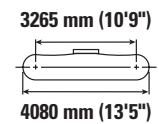
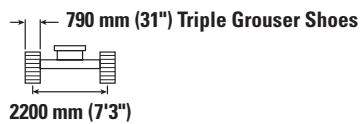
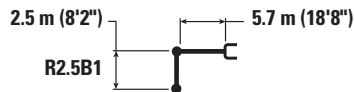
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories 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 $\pm 5\%$ for all available track shoes.

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

320 GX Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 3600 kg (7,940 lb) – without Bucket



		3.0 m/10'0"		4.5 m/15'0"		6.0 m/20'0"		7.5 m/25'0"				m ft/in
												
7.5 m 25'0"	kg lb									*4550 *10,100	*4550 *10,100	5.59 17'11"
6.0 m 20'0"	kg lb					*5400 *11,850	4500 9,700			*4150 *9,150	3650 8,150	6.82 22'2"
4.5 m 15'0"	kg lb			*6800 *14,600	6800 14,600	*5850 *12,700	4400 9,450	4550	3100	*4050 *8,950	3050 6,700	7.56 24'9"
3.0 m 10'0"	kg lb			*8550 *18,350	6300 13,550	6250 13,450	4200 9,000	4450 9,600	3000 6,450	*4100 *9,000	2750 6,050	7.96 26'1"
1.5 m 5'0"	kg lb			9300 19,950	5850 12,650	6050 12,950	4000 8,550	4350 9,400	2900 6,300	3950 8,650	2650 5,800	8.05 26'5"
0 m 0'0"	kg lb			9050 19,450	5650 12,200	5900 12,650	3850 8,300	4300 9,250	2850 6,150	4050 8,850	2700 5,900	7.86 25'9"
-1.5 m -5'0"	kg lb	*10 500 *23,250	*10 500 22,900	9000 1,950	5650 12,150	5850 12,550	3800 8,200			4400 9,750	2950 6,450	7.35 24'1"
-3.0 m -10'0"	kg lb	*13 350 *28,900	10 850 23,300	9100 19,600	5750 12,300	5900 12,700	3850 8,350			5350 11,850	3550 7,800	6.46 21'1"
-4.5 m -15'0"	kg lb			*7250 *15,200	5950 12,900					*6250 *13,750	5200 11,800	4.98 16'0"



ISO 10567:2007



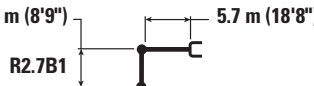
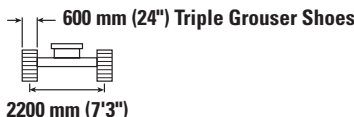
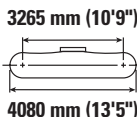












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Lift capacity stays with $\pm 5\%$ for all available track shoes.

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Reach Boom Lift Capacities – Counterweight: 3600 kg (7,940 lb) – without Bucket

												
		3.0 m/10'0"		4.5 m/15'0"		6.0 m/20'0"		7.5 m/25'0"				
												m ft/in
7.5 m 25'0"	kg lb									*4100 *9,150	*4100 *9,150	5.85 18'10"
6.0 m 20'0"	kg lb					*5200 *11,350	4450 9,500			*3800 *8,350	3400 7,550	7.04 22'11"
4.5 m 15'0"	kg lb					*5650 *12,300	4300 9,250	4450 9,500	3000 6,450	*3700 *8,200	2850 6,250	7.76 25'5"
3.0 m 10'0"	kg lb			*8250 *17,800	6150 13,300	6100 13,100	4100 8,800	4350 9,300	2950 6,300	*3800 *8,350	2550 5,650	8.14 26'8"
1.5 m 5'0"	kg lb			9050 19,450	5750 12,350	5850 12,600	3850 8,350	4250 9,100	2850 6,100	3700 8,100	2450 5,400	8.24 27'0"
0 m 0'0"	kg lb	*5200 *12,100	*5200 *12,100	8800 18,900	5500 11,850	5700 12,250	3750 8,000	4150 8,950	2750 5,950	3750 8,300	2500 5,500	8.05 26'5"
-1.5 m -5'0"	kg lb	*10 250 *23,250	*10 250 22,100	8750 18,750	5450 11,750	5650 12,150	3650 7,900	4150	2750	4100 9,050	2750 6,000	7.56 24'9"
-3.0 m -10'0"	kg lb	*13 750 *29,800	10 500 22,500	8800 18,950	5500 11,900	5700 12,250	3700 8,000			4900 10,900	3250 7,200	6.70 21'10"
-4.5 m -15'0"	kg lb	*10 650 *22,800	*10 650 *22,800	*7700 *16,300	5750 12,400					*6250 *13,650	4600 10,450	5.28 17'0"



ISO 10567:2007




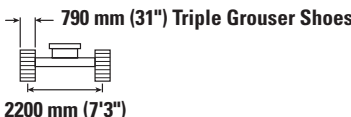
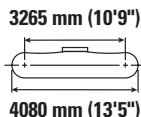
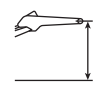










*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories 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 $\pm 5\%$ for all available track shoes.

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

320 GX Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 3600 kg (7,940 lb) – without Bucket

												
		3.0 m/10'0"		4.5 m/15'0"		6.0 m/20'0"		7.5 m/25'0"				
											m ft/in	
7.5 m 25'0"	kg lb									*4100 *9,150	*4100 *9,150	5.85 18'10"
6.0 m 20'0"	kg lb					*5200 *11,350	4550 9,750			*3800 *8,350	3450 7,750	7.04 22'11"
4.5 m 15'0"	kg lb					*5650 *12,300	4400 9,450	4550 9,750	3100 6,650	*3700 *8,200	2900 6,450	7.76 25'5"
3.0 m 10'0"	kg lb			*8250 *17,800	6350 13,650	6250 13,450	4200 9,000	4450 9,600	3000 6,450	*3800 *8,350	2650 5,800	8.14 26'8"
1.5 m 5'0"	kg lb			9300 20,000	5900 12,700	6050 12,950	4000 8,550	4350 9,350	2900 6,250	3800 8,350	2550 5,600	8.24 27'0"
0 m 0'0"	kg lb	*5200 *12,100	*5200 *12,100	9050 19,450	5650 12,200	5850 12,650	3850 8,250	4300 9,200	2850 6,100	3900 8,550	2600 5,700	8.05 26'5"
-1.5 m -5'0"	kg lb	*10 250 *23,250	*10 250 22,700	9000 19,300	5600 12,050	5800 12,500	3800 8,150	4250	2850	4250 9,300	2800 6,200	7.56 24'9"
-3.0 m -10'0"	kg lb	*13 750 *29,800	10 800 23,100	9100 19,500	5600 12,250	5850 12,600	3800 8,250			5050 11,200	3350 7,400	6.70 21'10"
-4.5 m -15'0"	kg lb	*10 650 *22,800	*10 650 *22,800	*7700 *16,300	5800 12,750					*6250 *13,650	4750 10,700	5.28 17'0"



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 $\pm 5\%$ for all available track shoes.

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

320 GX Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 3600 kg (7,940 lb) – without Bucket

		3.0 m/10'0"		4.5 m/15'0"		6.0 m/20'0"		7.5 m/25'0"				
											m ft/in	
7.5 m 25'0"	kg lb									*4100 *9,150	*4100 *9,150	5.85 18'10"
6.0 m 20'0"	kg lb					*5200 *11,350	4550 9,800			*3800 *8,350	3500 7,800	7.04 22'11"
4.5 m 15'0"	kg lb					*5650 *12,300	4450 9,500	4550 9,800	3100 6,650	*3700 *8,200	2950 6,500	7.76 25'5"
3.0 m 10'0"	kg lb			*8250 *17,800	6350 13,700	6300 13,500	4200 9,050	4500 9,600	3050 6,500	*3800 *8,350	2650 5,850	8.14 26'8"
1.5 m 5'0"	kg lb			9350 20,050	5900 12,750	6050 13,000	4000 8,600	4350 9,400	2950 6,300	3800 8,400	2550 5,600	8.24 27'0"
0 m 0'0"	kg lb	*5200 *12,100	*5200 *12,100	9050 19,450	5700 12,250	5900 12,650	3850 8,300	4300 9,250	2850 6,150	3900 8,550	2600 5,700	8.05 26'5"
-1.5 m -5'0"	kg lb	*10 250 *23,250	*10 250 22,800	9000 19,350	5650 12,150	5800 12,500	3800 8,200	4300	2850	4250 9,350	2800 6,200	7.56 24'9"
-3.0 m -10'0"	kg lb	*13 750 *29,750	10 850 23,200	9100 19,500	5700 12,300	5850 12,650	3850 8,300			5050 11,200	3350 7,450	6.70 21'10"
-4.5 m -15'0"	kg lb	*10 650 *22,750	*10 650 *22,750	*7700 *16,300	5950 12,800					*6200 *13,650	4750 10,750	5.28 17'0"



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 GX Hydraulic Excavator Specifications

Bucket Specifications and Compatibility – Eurasia

Counterweight									3600 kg (7,940 lb)	
	Linkage	Width		Capacity		Weight		Fill	Reach Boom	
		mm	in	m³	yd³	kg	lb	%	R2.5 m (8'2")	R2.7 m (8'9")
Pin-On (No Quick Coupler)										
General Duty	B	1050	41	0.90	1.18	744	1,640	100	●	●
	B	1050	42	1.00	1.31	793	1,748	100	⊙	⊙
Maximum load with pin-on (payload + bucket)								kg	2620	2580
								lb	5,776	5,688

Bucket Specifications and Compatibility – Indonesia, Southeast Asia, Sri Lanka and Taiwan

Counterweight									3600 kg (7,940 lb)
	Linkage	Width		Capacity		Weight		Fill	Reach Boom
		mm	in	m³	yd³	kg	lb	%	R2.7 m (8'9")
Pin-On (No Quick Coupler)									
General Duty	B	1200	47	0.93	1.22	766	1,689	100	●
	B	1150	46	0.90	1.18	782	1,724	100	●
	B	1050	41	0.90	1.18	744	1,640	100	●
	B	1200	42	1.00	1.31	784	1,729	100	⊙
	B	1050	42	1.00	1.31	793	1,748	100	⊙
Maximum load with pin-on (payload + bucket)								kg	2580
								lb	5,688

The above loads are in compliance with hydraulic excavator standard EN 474-5:2022/AC:2022, 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)

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 GX Hydraulic Excavator Specifications

Attachments Offering Guide – Eurasia

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%
 ☐ No Match

PIN-ON ATTACHMENTS

Counterweight		3600 kg (7,940 lb)	
Boom Type		Reach	
Stick Length		R2.5 m (8'2")	R2.7 m (8'9")
Hydraulic Hammers	H115 S	✓	✓
	H120 GC	✓	✓
	H120 GC Side Mount	✓	✓
	H120 GC S	✓	✓
	H120 S	✓	✓
	H130 GC	✓†*	
	H130 GC S	✓†	
	H130 S	✓†	✓†
Compactors (Vibratory Plate)	CVP110	✓	✓

CAT PIN GRABBER COUPLER ATTACHMENTS

Counterweight		3600 kg (7,940 lb)	
Boom Type		Reach	
Stick Length		R2.5 m (8'2")	R2.7 m (8'9")
Hydraulic Hammers	H120 GC Side Mount	✓†	✓†*

CW-40s DEDICATED COUPLER ATTACHMENTS

Counterweight		3600 kg (7,940 lb)	
Boom Type		Reach	
Stick Length		R2.5 m (8'2")	R2.7 m (8'9")
Hydraulic Hammers	H115 S	✓	✓
	H120 GC	✓†*	✓†*
	H120 GC S	✓†	✓†
	H120 S	✓†	✓†
	H130 S	✓†	✓†
Compactors (Vibratory Plate)	CVP110	✓	✓

CW-40 DEDICATED COUPLER ATTACHMENTS

Counterweight		3600 kg (7,940 lb)	
Boom Type		Reach	
Stick Length		R2.5 m (8'2")	R2.7 m (8'9")
Hydraulic Hammers	H115 S	✓	✓
	H120 GC	✓†*	
	H120 GC S	✓†	✓†
	H120 S	✓†	✓†
	H130 S	✓†	✓†
Compactors (Vibratory Plate)	CVP110	✓	✓

320 GX Hydraulic Excavator Specifications

Attachments Offering Guide – Indonesia, Southeast Asia, Sri Lanka

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

☒ Match ☐ † Allowed usage on machine less than 50%

PIN-ON ATTACHMENTS

Counterweight		3600 kg (7,940 lb)
Boom Type		Reach
Stick Length		R2.7 m (8'9")
Hydraulic Hammers	H115 S	✓
	H120 GC	✓
	H120 GC Side Mount	✓
	H120 GC S	✓
	H120 S	✓
	H130 S	✓†
Compactors (Vibratory Plate)	CVP110	✓

Attachments Offering Guide – Taiwan

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

☒ Match

PIN-ON ATTACHMENTS

Counterweight		3600 kg (7,940 lb)
Boom Type		Reach
Stick Length		R2.7 m (8'9")
Hydraulic Hammers	H120 GC	✓
	H120 GC Side Mount	✓
	H120 GC S	✓

320 GX Standard and Optional Equipment

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
BOOMS, STICKS AND LINKAGES			ELECTRICAL SYSTEM		
5.7 m (18'8") Reach boom	✓		Two 950 CCA maintenance-free batteries	✓	
2.5 m (8'2") Reach stick		✓ ⁽¹⁾	Electrical disconnect switch	✓	
2.7 m (8'9") Reach stick	✓ ⁽²⁾		LED chassis and cab lights	✓	
Bucket linkage with lifting eye, B1 type	✓ ⁽³⁾		LED right-side boom light		✓
Bucket linkage without lifting eye, B1 type	✓ ⁽⁴⁾		LED left-side boom light	✓	
CAB			ENGINE		
OPG		✓	Cat® C4.4 single turbo diesel engine	✓	
Sound suppressed cab with viscous mounts	✓		Two selectable modes: Power, Smart	✓	
High-resolution 203 mm (8") LCD touchscreen monitor	✓		Up to 4500 m (14,764 ft) altitude capability with derate from 3000 m (9,842 ft)	✓	
Mechanical-suspension seat with head rest and arm rest	✓		52° C (125° F) high-ambient cooling capacity	✓	
51 mm (2") orange seat belt	✓		-25° C (-13° F) cold start capability	✓	
Auto bi-level air conditioner	✓		Electric fuel priming pump	✓	
Keyless push-to-start engine control	✓		Direct drive fan	✓	
Fixed left-side console	✓		Two-stage fuel filtration system with water separator and indicator	✓	
1-button joysticks	✓		Sealed double element air filter with pre-cleaner	✓	
3-button joysticks		✓	HYDRAULIC SYSTEM		
AM/FM Bluetooth® radio with USB/Auxiliary ports	✓		Electronic main control valve, hammer ready	✓	
Speakers (mounted on roof)	✓		Back-to-back electronic pumps	✓	
24V DC outlet	✓		High performance hydraulic return filter	✓	
Storage compartments	✓		Hammer return filter		✓
Cup holder	✓		Boom and stick regeneration circuits	✓	
70/30 tempered glass windshield	✓		Automatic hydraulic oil warm-up	✓	
Rear window emergency exit	✓		Automatic two-speed travel	✓	
Radial wiper with washer	✓		Hammer lines		✓
Openable steel hatch	✓				
LED dome light	✓				
Washable floor mat	✓				
CAT TECHNOLOGY					
VisionLink™	✓ ⁽⁵⁾				
Capability to Remote Flash Cat Product Link™ (telematics only)	✓				

(continued on next page)

⁽¹⁾Eurasia only

⁽²⁾Optional in Eurasia

⁽³⁾All regions except Eurasia

⁽⁴⁾Eurasia only

⁽⁵⁾Provides core telematics data to manage health, maintenance insights, and condition monitoring. Other plans available for more comprehensive data reporting. Consult your Cat dealer for details.

320 GX 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
SAFETY AND SECURITY			UNDERCARRIAGE AND STRUCTURES		
Anti-skid plating with countersunk bolts	✓		600 mm (24") triple grouser shoes		✓
Handrail and handhold	✓		790 mm (31") triple grouser shoes		✓
Lockable external tool/storage box	✓		800 mm (31") triple grouser shoes ⁽⁷⁾		✓
Ground-level secondary engine shutoff switch	✓		Grease lubricated track link	✓	
Lockable disconnect switch	✓		Center track guiding guard	✓	
Signaling/warning horn	✓		Bottom guards	✓	
Rearview camera		✓	Travel motor guards	✓	
Travel alarm		✓	OPG guard		✓
Swing alarm		✓	3600 kg (7,940 lb) counterweight	✓	
SERVICE AND MAINTENANCE			Tie-down points	✓	
Grouped engine oil and fuel filters	✓				
S-O-S SM ports	✓				
Radiator screen		✓			

⁽⁷⁾SE Asia only

Dealer Installed Kits and Attachments

Attachments may vary. Consult your Cat dealer for details.

GUARDS

- 6 mm (0.24") swivel guard
- Mesh guard full front (not compatible with cab light cover, rain protector)
- Mesh guard lower half front
- Operator Protective Guards

SERVICE PARTS

- Hammer floor pedal kit
- Grease gun holder

320 GX Environmental Declaration

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit <https://www.caterpillar.com/en/company/sustainability>.

Engine

- The Cat® C4.4 engine meets UN ECE R96 Stage IIIA emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- Cat engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels** up to:
 - ✓ 100% biodiesel FAME (fatty acid methyl ester)*
 - ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels

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

**For use of blends higher than 20% biodiesel, consult your Cat dealer.*

***Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.*

Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.85 kg (1.9 lb) of refrigerant which has a CO₂ equivalent of 1.216 metric tonnes (1.340 tons).

Paint

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
 - Barium < 0.01%
 - Cadmium < 0.01%
 - Chromium < 0.01%
 - Lead < 0.01%

Sound Performance

ISO 6395:2008 (External)	102 dB(A)
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ISO 6396:2008 (Inside Cab)	70 dB(A)
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- External Sound – The spectator sound power level is measured according to the test procedures and conditions specified in ISO 6395:2008 for a Cat machine that is properly equipped and maintained.
- Internal Sound – The operator sound pressure level is measured according to the test procedures and conditions specified in ISO 6396:2008 for a cab offered by Caterpillar, when properly installed and maintained and tested with the door and windows closed.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained for doors/windows open) for extended periods or in noisy environment(s).

Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

Features and Technology

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
 - Smart mode matches machine power to digging requirements automatically
 - Automatic Engine Control reduces engine speed when the machine is not under load to minimize fuel consumption
 - Enhanced filters and extended service intervals help decrease maintenance costs
 - The latest hydraulic oil filter provides an extended 3,000-hour replacement interval

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

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

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AEXQ3967-01 (12-2025)
Replaces: AEXQ3967-00
Build Number: 05F
(Eurasia, Indonesia, Sri Lanka,
Taiwan, SE Asia)

