



320 GC

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 GC Narrow Hydraulic Excavator Specialty Configurations

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320 GC Hydraulic Excavator Specifications

Engine

Engine Model	Cat® C4.4	
Net Power		
ISO 9249	107 kW	143 hp
ISO 9249 (DIN)	145 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⁾	

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

Weights

Operating Weight	20 400 kg	45,000 lb
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- Medium undercarriage, Reach boom, R2.9 (9'6") stick, General Duty (GD) 1.0 m³ (1.31 yd³) bucket, 600 mm (24") triple grouser shoes, and 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)	47	
Number of Track Rollers (each side)	7	
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

Standards

Brakes	ISO 10265:2008
Cab/Rollover Protective Structure (ROPS)	ISO 12117-2:2008
Falling Object Guard System (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.

320 GC Hydraulic Excavator Specifications

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)
Base Machine Configurations				
Base Frame with Track Rollers and Carrier Rollers				
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	20 400 (45,000)	44.7 (6.5)	21 100 (46,500)	35.1 (5.1)

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

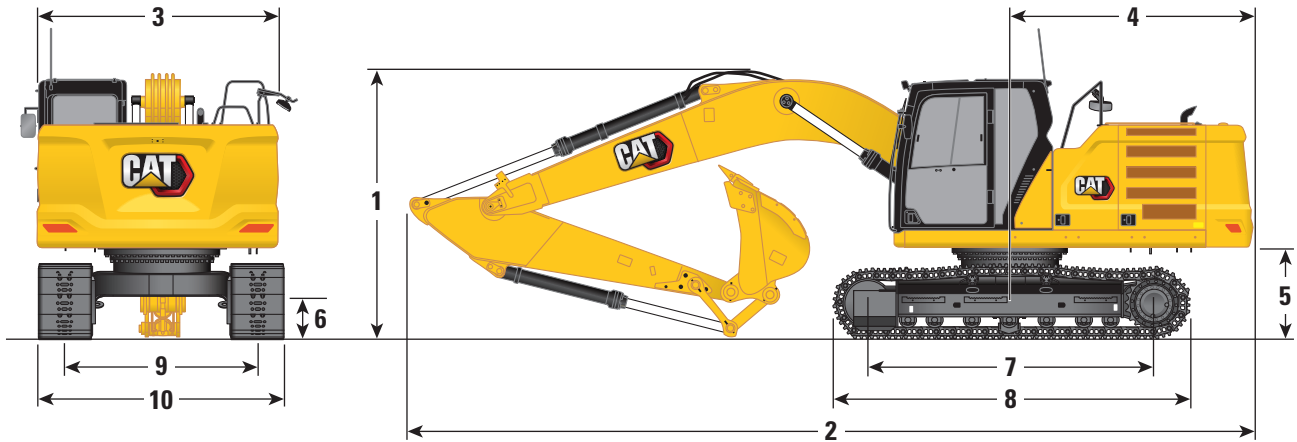
Major Component Weights

	kg	lb
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
Track Shoes:		
600 mm (24") Width, 8.5 mm (0.33") Thick, Triple Grouser Track Shoes	2500	5,500
790 mm (31") Width, 10 mm (0.39") Thick, Triple Grouser Track Shoes with Step Extension	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 (8,200 lb) Counterweight	3700	8,200
Swing Frame:		
Standard Swing Frame	1910	4,150
Undercarriage:		
Standard Base Frame with HD Track Rollers and Standard Carrier Rollers	4140	9,100
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 (R2.9B1/9'6")	1080	2,400
Buckets (without linkage):		
1.0 m ³ (1.31 yd ³) GD	730	1,600
1.0 m ³ (1.31 yd ³) Heavy Duty (HD)	860	1,870

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 Option

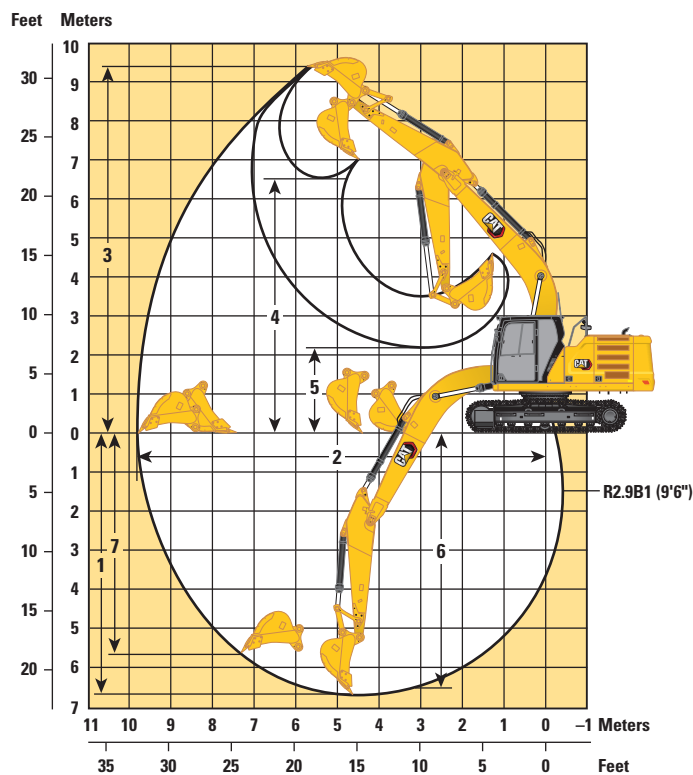
Reach Stick
R2.9B1 (9'6")

1 Machine Height:		
Top of Cab Height	2960 mm	9'9"
Top of FOGS Height	3100 mm	10'2"
Handrail Height	2950 mm	9'8"
With Boom/Stick/Bucket Installed	3160 mm	10'4"
With Boom/Stick Installed	2910 mm	9'7"
With Boom Installed	2480 mm	8'2"
2 Machine Length:		
With Boom/Stick/Bucket Installed	9530 mm	31'3"
With Boom/Stick Installed	9500 mm	31'2"
With Boom Installed	8450 mm	27'9"
3 Upperframe Width	2780 mm	9'1"
4 Tail Swing Radius	2830 mm	9'3"
5 Counterweight Clearance	1050 mm	3'5"
6 Ground Clearance	470 mm	1'7"
7 Length to Center of Rollers	3450 mm	11'4"
8 Track Length	4250 mm	13'11"
9 Track Gauge	2380 mm	7'10"
10 Undercarriage Width:		
600 mm (24") Shoes	2980 mm	9'9"
790 mm (31") Shoes	3170 mm	10'5"
Bucket Type		GD
Bucket Capacity	1.00 m ³	1.31 yd ³
Bucket Tip Radius	1560 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 Option

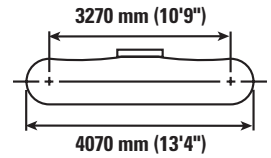
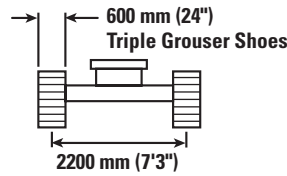
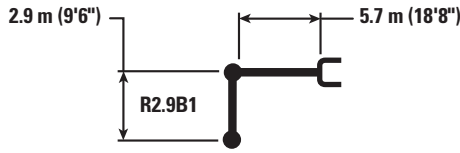
Reach Stick
R2.9B1 (9'6")














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

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 25'0"	kg lb							*4300 *10,850	*4300 9,950			*3750 *8,300	*3750 *8,300	6150 240
6000 mm 20'0"	kg lb							*4950 *10,850	4950 10,600			*3450 *7,600	*3450 *7,600	7290 290
4500 mm 15'0"	kg lb							*5450 *11,800	4800 10,300	4850 10,400	3350 7,200	*3400 *7,450	3000 6,650	7990 320
3000 mm 10'0"	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 5'0"	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 0'0"	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 -5'0"	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 -10'0"	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 -15'0"	kg lb			*11 250 *24,050	*11 250 *24,050	*8100 *17,200	6350 13,700					*6100 *13,400	4700 10,600	5600 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.

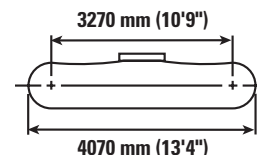
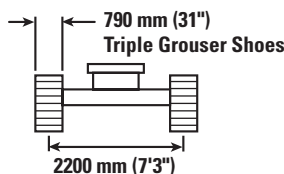
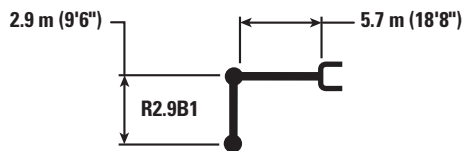
Lift capacity stays with ±5% for all available track shoes.














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

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 25'0"	kg lb							*4300 *4300				*3750 *8,300	*3750 *8,300	6150 240
6000 mm 20'0"	kg lb							*4950 *10,850	*4950 *10,850			*3450 *7,600	*3450 *7,600	7290 290
4500 mm 15'0"	kg lb							*5450 *11,800	4950 10,600	5000 10,750	3500 7,450	*3400 *7,450	3150 6,900	7990 320
3000 mm 10'0"	kg lb					*7950 *17,050	7200 15,450	*6250 *13,500	4700 10,150	4900 10,550	3400 7,250	*3450 *7,600	2850 6,250	8360 330
1500 mm 5'0"	kg lb					*9600 *20,700	6700 14,400	6650 14,300	4500 9,650	4800 10,300	3250 7,000	*3700 *8,050	2750 6,050	8450 340
0 mm 0'0"	kg lb			*5750 *13,250	*5750 *13,250	10 100 21,650	6400 13,800	6500 13,900	4300 9,250	4700 10,100	3200 6,850	*4050 *8,950	2800 6,150	8260 330
-1500 mm -5'0"	kg lb	*6150 *13,750	*6150 *13,750	*10 000 *22,650	*10 000 *22,650	10 000 21,450	6350 13,650	6400 13,750	4250 9,100	4650 10,050	3150 6,800	4450 9,800	3000 6,650	7780 310
-3000 mm -10'0"	kg lb	*10 600 *23,750	*10 600 *23,750	*14 100 *30,550	12 350 26,500	*9950 *21,500	6400 13,750	6450 13,850	4250 9,200			5250 11,600	3550 7,850	6950 280
-4500 mm -15'0"	kg lb			*11 250 *24,050	*11 250 *24,050	*8100 *17,200	6600 14,200					*6100 *13,400	4900 11,000	5600 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

Bucket Specifications and Compatibility

	Linkage	Width		Capacity		Weight		Fill	Medium Undercarriage	
		mm	in	m ³	yd ³	kg	lb		%	3.7 mt (8,200 lb) Counterweight
										Reach Boom
									R2.9 (9'6")	
Pin-On (No Quick Coupler)										
General Duty	B	600	24	0.46	0.61	555	1,223	100	●	
	B	750	30	0.64	0.84	626	1,380	100	●	
	B	1050	42	1.00	1.31	737	1,624	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 Excavation	B	1581	62	1.10	1.44	797	1,157	100	⊙	
Heavy Duty	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	○	
Severe Duty	B	1050	42	1.00	1.31	948	2,091	90	⊙	
Severe Duty Spade	B	1200	48	1.20	1.57	1011	2,229	90	⊖	
Maximum load with pin-on (payload + bucket)								kg	2425	
								lb	5,346	
	Linkage	Width		Capacity		Weight		Fill	Medium Undercarriage	
		mm	in	m ³	yd ³	kg	lb		%	3.7 mt (8,200 lb) Counterweight
										Reach Boom
									R2.9 (9'6")	
With Cat Pin Grabber Coupler										
General Duty	B	600	24	0.46	0.61	555	1,223	100	●	
	B	750	30	0.64	0.84	626	1,380	100	●	
	B	1050	42	1.00	1.31	737	1,624	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	◇	
Heavy Duty	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	◇	
Severe Duty	B	1050	42	1.00	1.31	948	2,091	90	⊖	
Severe Duty Spade	B	1200	48	1.20	1.57	1011	2,229	90	○	
Maximum load with coupler (payload + bucket)								kg	2006	
								lb	4,423	

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

PIN-ON ATTACHMENTS

Undercarriage		Medium
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 S	✓
	H120 S	✓
	H130 GC	✓
	H130 GC 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	G317 GC	✓
	G318	✓
	G318 WH-800	✓
	G318 WH-1100	✓
Mobile Scrap and Demolition Shears	S3025 Flat Top	✓*
Pulverizers	P218 Secondary Pulverizer	✓
	P318 Primary Pulverizer	✓
Compactors (Vibratory Plate)	CVP110	✓

(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.

● 1800 kg/m³ (3,000 lb/yd³)

○ 1200 kg/m³ (2,000 lb/yd³)

◇ 600 kg/m³ (1,000 lb/yd³)

PIN-ON ATTACHMENTS *(continued)*

Undercarriage		Medium
Counterweight		3.7 mt (8,200 lb)
Boom Type		Reach
Stick Length		2.9 m (9'6")
Orange Peel Grapples	GSH420-500	●
	GSH420-600	●
	GSH420-750	●
	GSH425-750	○
	GSH520-500	●
	GSH520-600	●
	GSH520-750	○
	GSV420-400	●
	GSV420-500	●
	GSV420-600	●
	GSV420-750	●
	GSV420-1250	◇
	GSV425-600	●
	GSV425-750	○
	GSV520 GC-400	●
	GSV520 GC-500	●
	GSV520 GC-600	●
	GSV520 GC-750	●
	GSV520-400	●
	GSV520-500	●
	GSV520-600	●
	GSV520-750	○
	GSV525-600	○
Clamshell Grapples	CTV15-1000	○

(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

CAT PIN GRABBER COUPLER ATTACHMENTS

Undercarriage		Medium
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 S	✓
	H120 S	✓
	H130 S	✓
Multi-Processors	MP318 Shear Jaw	✓*
Demolition and Sorting Grapples	G317 GC	✓
	G318 WH-800	✓*
Compactors (Vibratory Plate)	CVP110	✓

CW-40S DEDICATED COUPLER ATTACHMENTS

Undercarriage		Medium
Counterweight		3.7 mt (8,200 lb)
Boom Type		Reach
Stick Length		2.9 m (9'6")
Hydraulic Hammers	H115 S	✓
	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	G317 GC	✓
	G318	✓
	G318 WH-800	✓
	G318 WH-1100	✓*
Pulverizers	P218 Secondary Pulverizer	✓*
	P318 Primary Pulverizer	✓*
Compactors (Vibratory Plate)	CVP110	✓

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

CW-40 DEDICATED COUPLER ATTACHMENTS

Undercarriage		Medium
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 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	G317 GC	✓
	G317 GC Fixed CAN	✓
	G318	✓
	G318 Fixed CAN	✓
	G318 WH-800	✓
	G318 WH-1100	✓*
Pulverizers	P218 Secondary Pulverizer	✓*
	P318 Primary Pulverizer	✓*
Compactors (Vibratory Plate)	CVP110	✓

BOOM-MOUNT ATTACHMENTS

Undercarriage		Medium
Counterweight		3.7 mt (8,200 lb)
Boom Type		Reach
Mobile Scrap and Demolition Shears	S2050	✓
	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	✓		VisionLink®	✓*	
2.9 m (9'6") Reach stick	✓		VisionLink Productivity		✓
Bucket linkage, B1-family without lifting eye		✓	Remote Flash	✓	
CAB			ELECTRICAL SYSTEM		
ROPS	✓		1,000 CCA maintenance-free batteries (×2)	✓	
High-resolution 203 mm (8") LCD touchscreen monitor	✓		Centralized electrical disconnect switch	✓	
Auto bi-level air conditioner	✓		Programmable time-delay LED working lights	✓	
Keyless push-to-start engine control	✓		LED chassis light and Left Hand (LH) boom light – 1,800 lumens	✓	
Height-adjustable console, three steps with tool	✓		LED chassis light, LH and Right Hand (RH) boom lights, cab lights – 1,800 lumens		✓
Fixed left-side console	✓		ENGINE		
Mechanical-suspension seat	✓		Two selectable power modes	✓	
51 mm (2") seat belt	✓		One-touch low idle with automatic engine speed control	✓	
Console mounted Bluetooth® radio with USB ports	✓		Automatic engine idle shutdown	✓	
24V DC outlet	✓		Work up to 3000 m (9,842.5 ft) above sea level without engine power de-rating	✓	
Document storage	✓		52° C (125° F) high-ambient cooling capacity	✓	
Overhead storage and rear storage with nets	✓		Cold starting capability for –32° C (–25° F)	✓	
Beverage holder	✓		Double element air filter with integrated precleaner	✓	
Cup holder	✓		Electric fuel priming pump	✓	
Openable two-piece front window	✓		Electric cooling fans with auto-reverse function	✓	
Rear window emergency exit	✓				
Radial wiper with washer	✓				
Openable steel hatch	✓				
LED dome light	✓				
Roller front sunscreen	✓				
Roller rear sunscreen		✓			
Washable floor mat	✓				
Beacon ready	✓				

(continued on next page)

*Connect subscription only. Additional subscriptions are available. Contact your Cat dealer for availability.

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	✓		Scheduled Oil Sampling (S·O·S SM) 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	✓		QuickEvac TM maintenance ready		✓
Three button joysticks	✓		Electric refueling pump		✓
Slider joysticks		✓	Integrated vehicle health management system	✓	
Tandem type electronic main pump	✓		UNDERCARRIAGE AND STRUCTURES		
Hammer return filter circuit		✓	Medium undercarriage	✓	
Basic Tool Control (one pump, one way high-pressure flow)		✓	600 mm (24") triple grouser track shoes		✓
Tool Control (two pump, one/two way high-pressure flow)		✓	790 mm (31") triple grouser track shoes		✓
Quick coupler circuit for Cat pin grabber		✓	Tie-down points on base frame	✓	
Operating pattern film (four way)	✓		Center track guiding guard	✓	
Arctic fluids (include grease, engine oil, hydraulic oil)		✓	Bottom guards	✓	
SAFETY AND SECURITY			Travel motor guards	✓	
Auto hammer stop	✓		Grease lubricated track links	✓	
Rearview camera and right-side mirror	✓		3.7 mt (8,200 lb) counterweight	✓	
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	✓				
Lockable disconnect switch	✓				
RH handrail and handhold (ISO 2867:2011 compliant)	✓				
Travel alarm		✓			
Swing alarm		✓			
Inspection lighting		✓			

Dealer Installed Kits and Attachments

Attachments may vary. Consult your Cat dealer for details.

CAB

- Lower radial wiper
- Rain protector plus cab light cover
- Polycarbonate roof hatch
- Sun visor, slider
- Laminated P5A glass front windshield
- LH/RH electrical pedal for tool control
- Armrest kit
- Dual exit rear window kit
- 75 mm (3") retractable seat belt
- Lunch box net
- Rear storage
- Tool box

GUARDS

- Swivel guard
- Side rubber bumper guard
- Falling object guard system
- Mesh guard full front
- Mesh guard half front
- Full protecting vandalism guard

MAINTENANCE

- Duct ready kit

SAFETY AND SECURITY

- Bluetooth receiver

320 GC 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 Brazil MAR-1 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 (hydrogenated 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 (external) – 99 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.

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.
 - Advanced hydraulic systems balance power and efficiency
 - Smart mode matches machine power to digging requirements automatically
 - Eco mode minimizes fuel consumption for light applications
 - Cut maintenance costs up to 20% with extended service intervals
 - Programmable high-efficiency cooling fans run only when needed
 - The latest hydraulic oil filter provides longer life with a 3,000-hour replacement interval



320 GC Narrow

Hydraulic Excavator

The Cat® 320 GC Narrow Excavator is designed with transportation in mind. Its undercarriage is sized just right to make it fit nicely on trailers and space-restricted jobsites.

High Performance

- The excavator's 2.54 m (8'3") width makes it easier to get into space-restricted areas compared to a standard width model.
- The C4.4 engine emits equivalent to U.S. EPA Tier 3/EU Stage IIIA.
- High-ambient cooling and cold start capability enable year round work.
- Smart mode automatically matches engine and hydraulic power to digging conditions for maximum efficiency.
- Do different jobs quickly and efficiently with purpose-built Cat® attachments.

Simple to Operate

- Program power mode and joystick response and pattern using Operator ID; the machine will remember the settings each time you go to work.
- Navigate quickly on the standard high-resolution 203 mm (8 in) touchscreen monitor or with the aid of the jog dial control.
- Not sure how a function works? The operator's manual is at your fingertips in the touchscreen monitor.

Work in Comfort

- The wide seat is adjustable for operators of all sizes.
- Easy-to-reach controls all located in front of you reduce twisting and turning.
- Standard automatic climate control keeps you at the right temperature all shift long.
- Advanced viscous mounts reduce cab vibration up to 50 percent over previous excavator series.
- Stow your gear with plenty of storage, including a cup holder, cell phone slot, and space behind the seat for a large lunchbox.

Easy to Maintain

- Do all routine maintenance at ground level.
- The hydraulic oil system requires no maintenance for 3,000 hours – 50 percent longer than the previous series.
- Change fuel filters at 1,000 hours – double the interval from the previous filters.
- The air intake filter with precleaner has double the dust holding capacity of the previous air intake filter.

Built-In Safety

- No need to climb on top of the machine with daily maintenance points at ground level.
- The right-hand service platform design enables trouble-free access to upper service platform.
- Serrated steps and anti-skid punch plate prevent slipping.
- Keep your excavator secure with Operator ID; use your Personal Identification Number (PIN) code to enable push-button starting.
- Enjoy great visibility into the trench, in each swing direction, and behind you with the help of smaller cab posts and larger windows.
- Rearview camera is standard.



320 GC Narrow Hydraulic Excavator Specifications

Engine

Engine Model	Cat® C4.4	
Net Power		
ISO 9249	107 kW	143 hp
ISO 9249 (DIN)	145 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⁾	

- Meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- Recommended for use up to 4500 m (14,770 ft) altitude with engine power derate above 3000 m (9,840 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 (hydrogenated 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	11.12 rpm	
Maximum Swing Torque	74 kN·m	54,440 lbf·ft

Weights

Operating Weight	21 400 kg	47,200 lb
------------------	-----------	-----------

- Long Narrow undercarriage, Reach boom, R2.9 (9'6") stick, GD 1.00 m³ (1.31 yd³) bucket, 500 mm (20") triple grouser shoes and 3.9 mt (8,600 lb) counterweight.

Track

Track Shoes Width	500 mm	20 in
Number of Shoes (each side)	49	
Number of Track Rollers (each side)	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	205 kN	46,063 lbf

Hydraulic System

Main System – Maximum Flow – Implement	429 L/min (215 × 2 pumps)	113 gal/min (57 × 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	140 mm	6 in
Stick Cylinder – Stroke	1504 mm	59 in
Bucket Cylinder – Bore	120 mm	5 in
Bucket Cylinder – Stroke	1104 mm	43 in

Service Refill Capacities

Fuel Tank Capacity	267 L	70.5 gal
Cooling System	12.5 L	3.3 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/ROPS	ISO 12117-2:2008
FOGS (optional)	ISO 10262:1998 (Level II)

Sound Performance

ISO 6395 (external)	102 dB(A)
ISO 6396 (inside cab)	70 dB(A)

- When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 OCT98, meets OSHA and MSHA requirements for operator sound exposure limits in effect at time of manufacture.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in a noisy environment.

320 GC Narrow Hydraulic Excavator Specifications

Operating Weights and Ground Pressures

	500 mm (20") Triple Grouser Shoes	
	Weight	Ground Pressure
	kg (lb)	kPa (psi)
Base Machine Configurations		
Base Frame with Track Rollers and Carrier Rollers		
3.9 mt (8,600 lb) Counterweight + Long Narrow Undercarriage Base Machine		
Reach Boom + R2.9 (9'6") Stick + 1.0 m ³ (1.31 yd ³) GD Bucket	21 400 (47,200)	53.4 (7.7)
Reach Boom + R2.9 (9'6") Stick + 1.0 m ³ (1.31 yd ³) GD Bucket + Quick Coupler	21 700 (47,800)	54.1 (7.8)

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

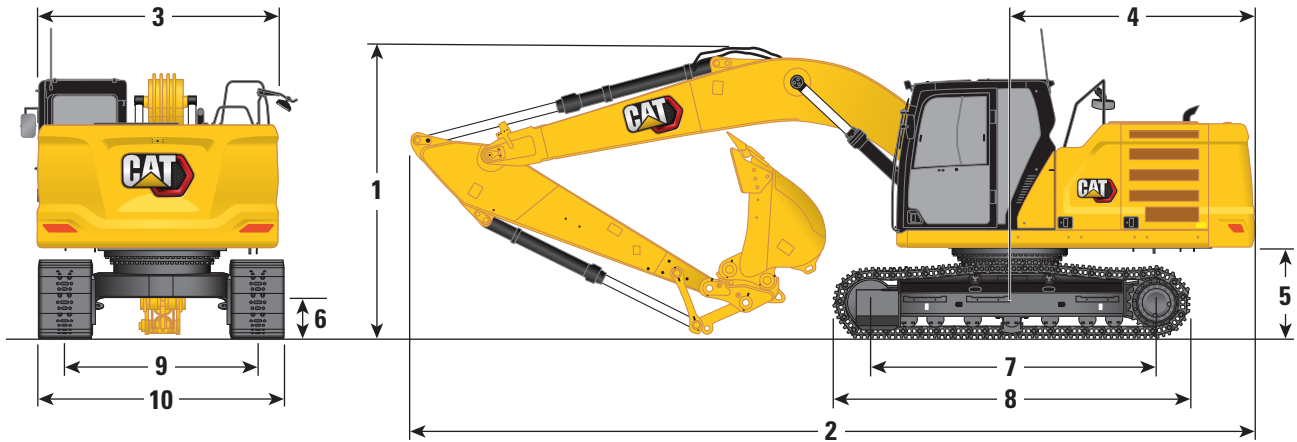
Major Component Weights

	kg	lb
Base Machine weight (with upperframe, long narrow undercarriage, 3.9 mt [8,600 lb] counterweight, boom cylinders, without boom, stick, bucket, stick cylinders, bucket cylinders, track, 90% fuel tank and 75 kg [165 lb] operator)		
Base Machine with 3.9 mt (8,600 lb) counterweight	15 030	33,130
Track Shoes:		
500 mm (20") Width, 8.5 mm (0.33") Thick, Triple Grouser Track Shoes	2440	5,390
Two Boom Cylinders	340	750
Weight of 90% Fuel Tank and 75 kg (165 lb) Operator	280	610
Counterweight:		
3.9 mt (8,600 lb) Counterweight	4550	10,030
Booms (including lines, pins, stick cylinder):		
5.7 m (18'8") Reach Boom (including HP lines)	1760	3,880
5.7 m (18'8") Reach Boom (including HP lines and quick coupler lines)	1780	3,930
Sticks (including lines, pins, bucket cylinder, bucket linkage):		
R2.9B1 (9'6") Reach Stick (including HP lines)	1110	2,440
R2.9B1 (9'6") Reach Stick (including HP lines and quick coupler lines)	1120	2,470
Buckets (without linkage, with tips and side cutters):		
1.0 m ³ (1.31 yd ³) GD Bucket	790	1,750
1.0 m ³ (1.31 yd ³) GD Bucket for use with CW Quick Coupler	750	1,650
Quick Coupler:		
CW Quick Coupler B1 without Pins	250	550

320 GC Narrow Hydraulic Excavator Specifications

Dimensions

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



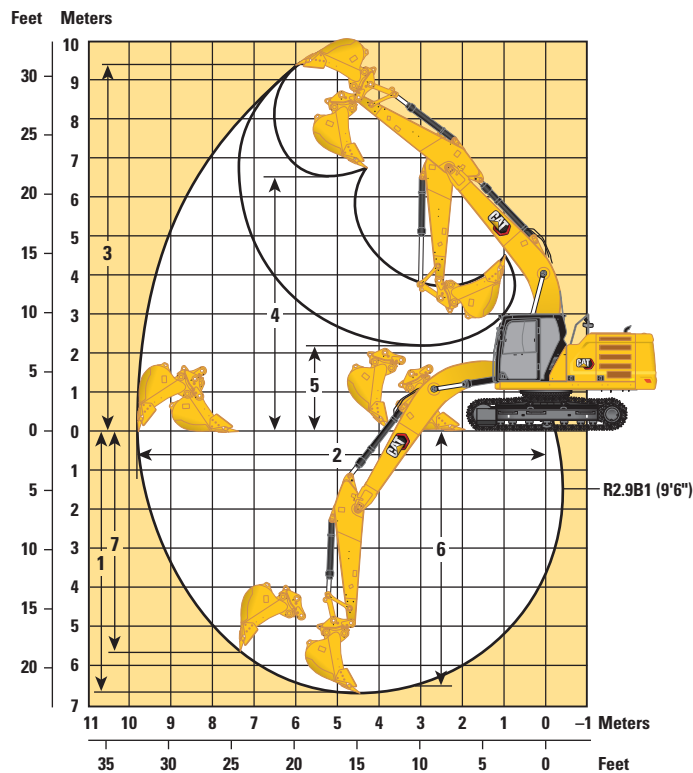
Boom Option	Reach Boom 5.7 m (18'8")	
Stick Option	Reach Stick R2.9B1 (9'6")	
Undercarriage Type	Long Narrow	
1 Machine Height:		
Top of Cab Height	2980 mm	9'9"
Top of FOGS Height	3120 mm	10'3"
Handrail Height	2970 mm	9'9"
With Boom/Stick/Bucket Installed	3050 mm	10'0"
With Boom/Stick Installed	2940 mm	9'8"
With Boom Installed	2400 mm	7'10"
2 Machine Length:		
With Boom/Stick/Bucket Installed	9560 mm	31'4"
With Boom/Stick Installed	9540 mm	31'4"
With Boom Installed	8490 mm	27'10"
3 Upperframe Width	2550 mm*	8'4"
4 Tail Swing Radius	2830 mm	9'3"
5 Counterweight Clearance	1030 mm	3'5"
6 Ground Clearance	440 mm	1'5"
7 Track Length:		
Length to Center of Rollers	3650 mm	12'0"
8 Crawler Overall Length	4460 mm	14'8"
9 Track Gauge – Extended	2000 mm	6'7"
Track Width:		
500 mm (20") Shoes	500 mm	20"
10 Undercarriage Width:		
500 mm (20") Shoes	2500 mm	8'2"
Bucket Type	GD	
Bucket Capacity	1.00 m ³	1.31 yd ³
Bucket Tip Radius	1560 mm	5'1"

*With mirrors folded, door bumper and door hook removed.

320 GC Narrow 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 Type

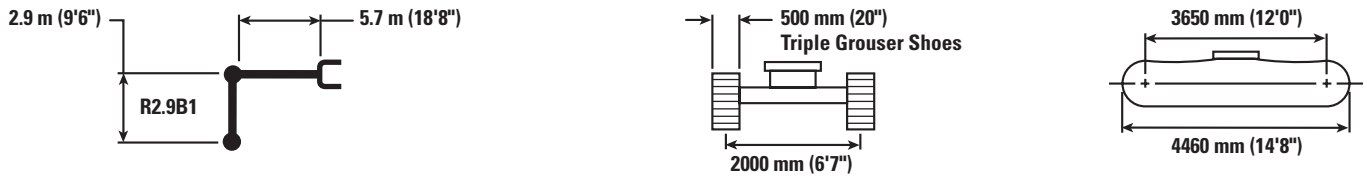
Long Narrow

1 Maximum Digging Depth	6700 mm	22'0"
2 Maximum Reach at Ground Line	9850 mm	32'4"
3 Maximum Cutting Height	9450 mm	31'0"
4 Maximum Loading Height	6510 mm	21'4"
5 Minimum Loading Height	2190 mm	7'2"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	6530 mm	21'5"
7 Maximum Vertical Wall Digging Depth	5650 mm	18'6"
Bucket Digging Force (ISO)	141 kN	31,590 lbf
Stick Digging Force (ISO)	107 kN	23,990 lbf
Bucket Type	GD	
Bucket Capacity	1.00 m ³	1.31 yd ³
Bucket Tip Radius	1560 mm	5'1"

320 GC Narrow Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 3.9 mt (8,600 lb) – with Bucket Linkages, without Bucket

Long Narrow Undercarriage



		1500 mm (5'0")		3000 mm (10'0")		4500 mm (15'0")		6000 mm (20'0")		7500 mm (25'0")		mm ft/in		
7500 mm 25'0"	kg lb							*4550 *10,750	*4550 9,800			*3900 *8,650	*3900 *8,650	6160 19'9"
6000 mm 20'0"	kg lb							*4900 *11,700	4550 9,450			*3600 *7,950	3300 7,300	7290 23'8"
4500 mm 15'0"	kg lb							*5400 *11,700	4400 9,450	*5050 *11,100	3100 6,650	*3550 *7,750	2800 6,150	7990 26'1"
3000 mm 10'0"	kg lb					*7900 *16,950	6300 13,550	*6200 *13,400	4200 9,000	*5400 *11,750	3000 6,450	*3600 *7,900	2550 5,550	8360 27'4"
1500 mm 5'0"	kg lb					*9550 *20,550	5800 12,500	*7000 *15,200	3950 8,500	5400 11,600	2900 6,200	*3850 *8,400	2450 5,350	8450 27'8"
0 mm 0'0"	kg lb			*6200 *14,300	*6200 *14,300	*10 450 *22,600	5550 11,950	7350 15,750	3800 8,150	5300 11,400	2800 6,000	*4250 *9,300	2450 5,400	8260 27'0"
-1500 mm -5'0"	kg lb	*6650 *14,850	*6650 *14,850	*10 750 *24,450	10 100 21,650	*10 550 *22,800	5450 11,750	7250 15,600	3700 8,000	5250 11,350	2800 6,000	*5000 *11,000	2650 5,850	7780 25'5"
-3000 mm -10'0"	kg lb	*11 400 *25,600	*11 400 *25,600	*13 950 *30,200	10 250 22,000	*9850 *21,250	5500 11,900	7300 15,700	3750 8,050			5950 13,150	3100 6,900	6940 22'7"
-4500 mm -15'0"	kg lb			*11 100 *23,750	10 600 22,750	*7950 *16,950	5700 12,350					*6050 *13,250	4300 9,650	5590 18'0"



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 GC Narrow Hydraulic Excavator Specifications

Bucket Specifications and Compatibility

	Linkage	Width		Capacity		Weight		Fill	Long Narrow Undercarriage	
		mm	in	m ³	yd ³	kg	lb		%	3.9 mt (8,600 lb) Counterweight
										Reach Boom
Pin On (No Coupler)										
General Duty	B	600	24	0.46	0.61	555	1,223	100	●	
	B	750	30	0.64	0.84	626	1,380	100	●	
	B	1300	51	1.30	1.70	835	1,841	100	◇	
	B	1400	55	1.43	1.87	879	1,937	100	X	
	B	1000	39	0.93	1.22	717	1,580	100	⊖	
	B	1050	42	1.00	1.31	737	1,624	100	⊙	
	B	1200	48	1.19	1.56	807	1,778	100	○	
Heavy Duty	B	1500	60	1.58	2.06	914	2,014	100	X	
	B	1050	42	1.00	1.31	892	1,967	100	○	
	B	1200	48	1.19	1.56	917	2,022	100	◇	
Severe Duty	B	1300	52	1.30	1.70	974	2,148	100	◇	
	B	1050	42	1.00	1.31	948	2,091	90	○	
	B	1200	48	1.20	1.57	1011	2,229	90	◇	
Ditch Cleaning	B	2000	78	1.22	1.60	869	1,916	100	◇	
Ditch Cleaning Tilt	B	2000	79	1.23	1.61	1096	2,417	100	◇	
Maximum load with pin-on (payload + bucket)								kg	2790	
								lb	4,905	

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.

(continued on next page)

320 GC Narrow Hydraulic Excavator Specifications

Bucket Specifications and Compatibility (continued)

	Linkage	Width		Capacity		Weight		Fill	Long Narrow Undercarriage
		mm	in	m ³	yd ³	kg	lb		%
With CW40 Coupler									
General Duty	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	○
	B	1400	55	1.43	1.87	863	1,903	100	○
General Duty with Leveling Edge	B	650	26	0.70	0.92	567	1,249	100	●
	B	800	31	0.68	0.89	614	1,353	100	●
	B	1200	47	1.19	1.56	787	1,734	100	⊖
	B	1400	55	1.43	1.87	855	1,884	100	○
	B	1500	60	1.58	2.06	895	1,972	100	◇
Heavy Duty	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	○
Ditch Cleaning	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	B	2000	79	1.23	1.61	1161	2,560	100	◇
Maximum load with coupler (payload + bucket)								kg	2540
								lb	5,600

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)

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 Narrow Hydraulic Excavator Specifications

Attachments Offering Guide

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

<input checked="" type="checkbox"/> Match	<input type="checkbox"/> * Working range front only	<input type="checkbox"/> † Allowed usage on machine less than 50%	<input checked="" type="checkbox"/> 1800 kg/m ³ (3,000 lb/yd ³)	<input type="checkbox"/> 1200 kg/m ³ (2,000 lb/yd ³)	<input type="checkbox"/> 600 kg/m ³ (1,000 lb/yd ³)
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PIN-ON ATTACHMENTS

Undercarriage		Long Narrow
Counterweight		3.9 mt (8,600 lb)
Boom Type		Reach
Stick Length		R2.9 (9'6")
Hydraulic Hammers	H115 S	✓
	H120 GC	✓
	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	G317 GC	✓
	G318	✓
	G318 WH-800	✓
Pulverizers	P218 Secondary Pulverizer	✓*
	P318 Primary Pulverizer	✓*
Compactors (Vibratory Plate)	CVP110	✓
Orange Peel Grapples	GSH420-500	●
	GSH420-600	●
	GSH420-750	○
	GSH520-500	●
	GSH520-600	○
	GSH520-750	○
	GSV420-400	●
	GSV420-500	●
	GSV420-600	●
	GSV420-750	○
	GSV420-1250	◇
	GSV425-600	○
	GSV520-400	●
	GSV520-500	●
	GSV520-600	●
	GSV520-750	○
	GSV520 GC-400	●
	GSV520 GC-500	●
	GSV520 GC-600	●
	GSV520 GC-750	○

(continued on next page)

320 GC Narrow 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%

PIN GRABBER COUPLER ATTACHMENTS

Undercarriage		Long Narrow
Counterweight		3.9 mt (8,600 lb)
Boom Type		Reach
Stick Length		R2.9 (9'6")
Hydraulic Hammers	H115 S	✓
	H120 GC	✓†
	H120 GC S	✓†
	H120 S	✓†
	H130 S	✓†*
Demolition and Sorting Grapples	G317 GC	✓*
Compactors (Vibratory Plate)	CVP110	✓

CW-40S DEDICATED COUPLER ATTACHMENTS

Undercarriage		Long Narrow
Counterweight		3.9 mt (8,600 lb)
Boom Type		Reach
Stick Length		R2.9 (9'6")
Hydraulic Hammers	H115 S	✓
	H120 GC S	✓†
	H120 S	✓†
	H130 S	✓†
Multi-Processors	MP318 Shear Jaw	✓*
Demolition and Sorting Grapples	G317 GC	✓
	G318	✓*
	G318 WH-800	✓
Compactors (Vibratory Plate)	CVP110	✓

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320 GC Narrow 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%

CW-40 DEDICATED COUPLER ATTACHMENTS

Undercarriage		Long Narrow
Counterweight		3.9 mt (8,600 lb)
Boom Type		Reach
Stick Length		R2.9 (9'6")
Hydraulic Hammers	H115 S	✓
	H120 GC	✓†
	H120 GC S	✓†
	H120 S	✓†
	H130 S	✓†*
Multi-Processors	MP318 Shear Jaw	✓*
Demolition and Sorting Grapples	G317 GC	✓
	G317 GC Fixed CAN	✓
	G318	✓*
	G318 Fixed CAN	✓*
	G318 WH-800	✓*
Compactors (Vibratory Plate)	CVP110	✓

BOOM-MOUNT ATTACHMENTS

Undercarriage		Long Narrow
Counterweight		3.9 mt (8,600 lb)
Boom Type		Reach
Mobile Scrap and Demolition Shears	S2050	✓*
	S3035 Flat Top	✓

320 GC Narrow 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			CAT TECHNOLOGY		
5.7 m (18'8") Reach boom	✓		VisionLink®	✓*	
2.9 m (9'6") Reach stick	✓		VisionLink Productivity		✓
Bucket linkage, B1-family without lifting eye	✓		Remote Flash	✓	
CAB			ELECTRICAL SYSTEM		
ROPS	✓		1,000 CCA maintenance-free batteries (×2)	✓	
High-resolution 203 mm (8") LCD touchscreen monitor	✓		Centralized electrical disconnect switch	✓	
Auto bi-level air conditioner	✓		Programmable time-delay LED working lights	✓	
Keyless push-to-start engine control	✓		LED chassis light, boom lights, cab lights	✓	
Height-adjustable console, three steps with tool	✓		ENGINE		
Fixed left-side console	✓		Cat C4.4 single turbo diesel engine	✓	
Mechanical-suspension seat	✓		Two selectable power modes	✓	
51 mm (2") seat belt	✓		Auto engine speed control	✓	
Console mounted Bluetooth® radio with USB ports	✓		Auto engine idle shutdown	✓	
24V DC outlet	✓		Work up to 3000 m (9,842.5 ft) above sea level without engine power de-rating	✓	
Document storage	✓		52° C (125° F) high-ambient cooling capacity	✓	
Overhead storage and rear storage with nets	✓		Cold starting capability for -32° C (-25° F)	✓	
Beverage holder	✓		Double element air filter with integrated pre-cleaner	✓	
Cup holder	✓		Electric fuel priming pump	✓	
Openable two-piece front window	✓		Electric cooling fans with auto-reverse function	✓	
Rear window emergency exit	✓				
Radial wiper with washer	✓				
Openable steel hatch	✓				
LED dome light	✓				
Roller front sunscreen	✓				
Roller rear sunscreen		✓			
Washable floor mat	✓				
Beacon ready	✓				

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*Connect subscription only. Additional subscriptions are available. Contact your Cat dealer for availability.

320 GC Narrow 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	✓		Scheduled Oil Sampling (S·O·S SM) ports	✓	
Electronic main control valve	✓		Ground-level second dipstick for engine oil	✓	
Auto warm up	✓		Side entry to service platform	✓	
Auto two-speed travel	✓		Integrated vehicle health management system	✓	
Boom and stick drift reduction valve	✓		UNDERCARRIAGE AND STRUCTURES		
Element type main hydraulic filter	✓		Long Narrow undercarriage	✓	
Slider joysticks	✓		500 mm (20") triple grouser track shoes	✓	
Tandem type electronic main pump	✓		Two-piece segmented track guiding guards	✓	
Basic Tool Control (one pump, one way high-pressure flow)		✓	Bottom guards	✓	
Tool Control (two pump, one/two way high-pressure flow)		✓	Swivel guard		✓
Medium pressure circuit		✓	Grease lubricated track links	✓	
Quick coupler circuit for Cat Pin Grabber and CW Dedicated		✓	3.9 mt (8,600 lb) counterweight	✓	
SAFETY AND SECURITY					
Auto hammer stop	✓				
Rear 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	✓				
Lockable disconnect switch	✓				
RH handrail and handhold (ISO 2867:2011 compliant)	✓				
FOGS guards		✓			
Inspection lighting		✓			
Swing alarm		✓			

Dealer Installed Kits and Attachments

Attachments may vary. Consult your Cat dealer for details.

CAB

- Lower radial wiper
- Rain protector plus cab light cover
- Laminated P5A glass front windshield
- RH electrical pedal for tool control
- Armrest kit
- Rear storage
- Tool box

GUARDS

- Falling object guard system
- Mesh guard full front
- Mesh guard half front
- Full protecting vandalism guard

MAINTENANCE

- Duct ready kit

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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AEXQ3211-03 (09-2023)
Replaces AEXQ3211-02
Build Number: 07G
(Eurasia)

