



323 GC

Hydraulic Excavator

Technical Specifications

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

Table of Contents

Specifications	2
Engine	2
Swing Mechanism	2
Weights	2
Track	2
Drive	2
Hydraulic System	2
Service Refill Capacities	2
Standards	2
Sound Performance	2
Operating Weights and Ground Pressures	3
Major Component Weights	3
Dimensions	4
Working Ranges and Forces	5
Bucket Specifications and Compatibility	6
Attachments Offering Guide	7
Standard and Optional Equipment	8
Dealer Installed Kits and Attachments	10
323 GC Environmental Declaration	11



323 GC Hydraulic Excavator Specifications

Engine

Engine Model	Cat® C7.1	
Net Power		
ISO 9249	117 kW	157 hp
ISO 9249 (DIN)	159 hp (metric)	
Engine Power		
ISO 14396	118 kW	158 hp
ISO 14396 (DIN)	160 hp (metric)	
Bore	105 mm	4 in
Stroke	135 mm	5 in
Displacement	7.01 L	428 in ³
Biodiesel capability	Up to B20 ⁽¹⁾	

- Emits equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- Recommended for use up to 4500 m (14,760 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 1,800 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.

Drive

Gradeability	35°/70%	
Maximum Travel Speed	5.7 km/h	3.5 mph
Maximum Drawbar Pull	205 kN	45,996 lbf

Hydraulic System

Main System – Maximum Flow – Implement	429 L/min	113 gal/min
Maximum Pressure – Equipment – Implement	35 000 kPa	5,075 psi
Maximum Pressure – Travel	34 300 kPa	4,974 psi
Maximum Pressure – Swing	26 800 kPa	3,886 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	91.1 gal
Cooling System	25 L	6.6 gal
Engine Oil (with filter)	25 L	6.6 gal
Swing Drive	6 L	1.6 gal
Final Drive (each)	5 L	1.3 gal
Hydraulic System (including tank)	234 L	61.8 gal
Hydraulic Tank (including suction pipe)	115 L	30.4 gal

Standards

Brakes	ISO 10265:2008
Cab/Rollover Protective Structure (ROPS)	ISO 12117-2:2008
Cab/Operator Protective Guards (OPG) (optional)	ISO 10262:1998 Level II

Sound Performance

ISO 6395:2008 (external)	99 dB(A)
ISO 6396:2008 (inside cab)	71 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. The measurements were conducted at 70% of the maximum engine cooling fan speed.
- 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. The measurements were conducted at 70% of the maximum engine cooling fan speed.
- 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).

Swing Mechanism

Swing Speed*	11.25 rpm	
Maximum Swing Torque	82.0 kN·m	60,300 lbf·ft

*For CE-marked machine default value may be set lower.

Weights

Operating Weight	22 700 kg	5,100 lb
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- Long undercarriage, Reach boom, R2.9 m (9'5") Reach stick, General Duty (GD) 1.3 m³ (1.70 yd³) bucket, 600 mm (24") triple grouser shoes and 4.7 mt (10,360 lb) counterweight.

Track

Standard Track Shoes Width	600 mm	24 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	

323 GC Hydraulic Excavator Specifications

Operating Weights and Ground Pressures

Base Machine Configurations	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)
HD Base Frame with Track Rollers and Carrier Rollers 4.7 mt (10,360 lb) Counterweight + Long Undercarriage Base Machine				
Reach Boom + 2.9 m (9'5") Reach Stick + 1.3 m ³ (1.70 yd ³) GD Bucket	22 700 (50,100)	47.2 (6.8)	23 400 (51,600)	37.0 (5.4)

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

Major Component Weights

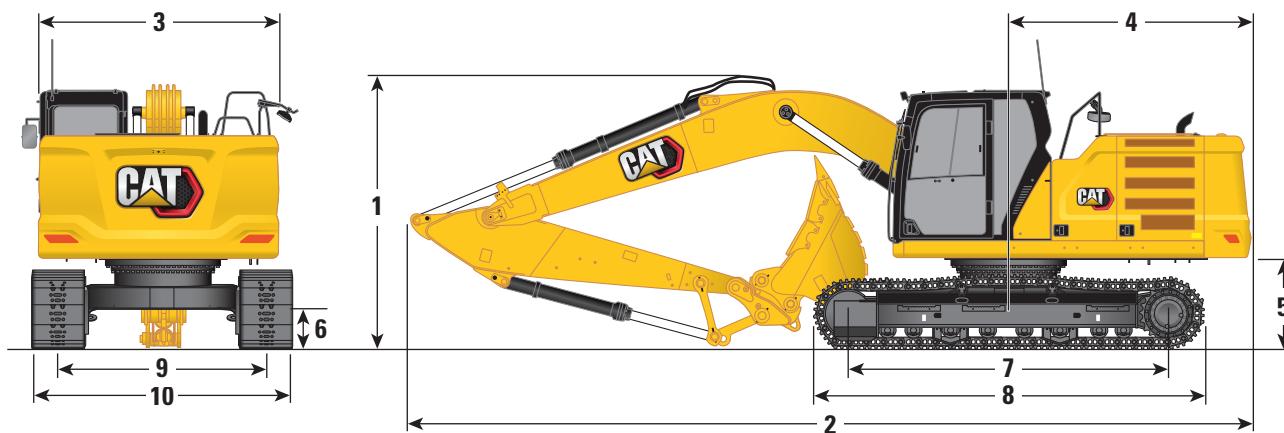
	kg	lb
Base Machine (with upper frame, long undercarriage, 4.7 mt [10,360 lb] counterweight – does not include boom, stick, bucket, boom cylinders, stick cylinder, bucket cylinder, tracks, 90% fuel tank and 75 kg [165 lb] operator)	15 600	34,400
Track Shoes:		
600 mm (24") Width, 10 mm (0.39") Thick, Triple Grouser Track Shoes	2690	5,900
790 mm (28") Width, 10 mm (0.39") Thick, Triple Grouser Track Shoes	3370	6,700
Two Boom Cylinders	340	700
Weight of 90% Fuel Tank and 75 kg (165 lb) Operator	310	700
Counterweight:		
4.7 mt (10,360 lb) Counterweight	4700	10,400
Swing Frame:		
HD Swing Frame	2120	4,700
Undercarriage:		
HD Base Frame with Standard Track Rollers and Standard Carrier Rollers	4470	9,900
Boom (including lines, pins, stick cylinder):		
Reach Boom 5.7 m (18'8")	1770	3,900
Sticks (including lines, pins, bucket cylinder, bucket linkage):		
Reach Stick R2.9B1 (9'6")	1080	2,400
Bare Reach Stick R2.9B1 (9'6")	1070	2,400
Buckets (without linkage):		
1.30 m ³ (1.48 yd ³) GD	900	2,000
1.30 m ³ (1.70 yd ³) Heavy Duty (HD)	1070	2,400
1.19 m ³ (1.56 yd ³) HD	1000	2,200

Refer to page 6 for a complete list of bucket options.

323 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:

Cab Height	2960 mm	9'9"
OPG Height	3104 mm	10'2"
Handrail Height	2954 mm	9'8"
With Boom/Stick/Bucket Installed	3162 mm	10'4"
With Boom/Stick Installed	2913 mm	9'7"
With Boom Installed	2475 mm	8'1"

2 Machine Length:

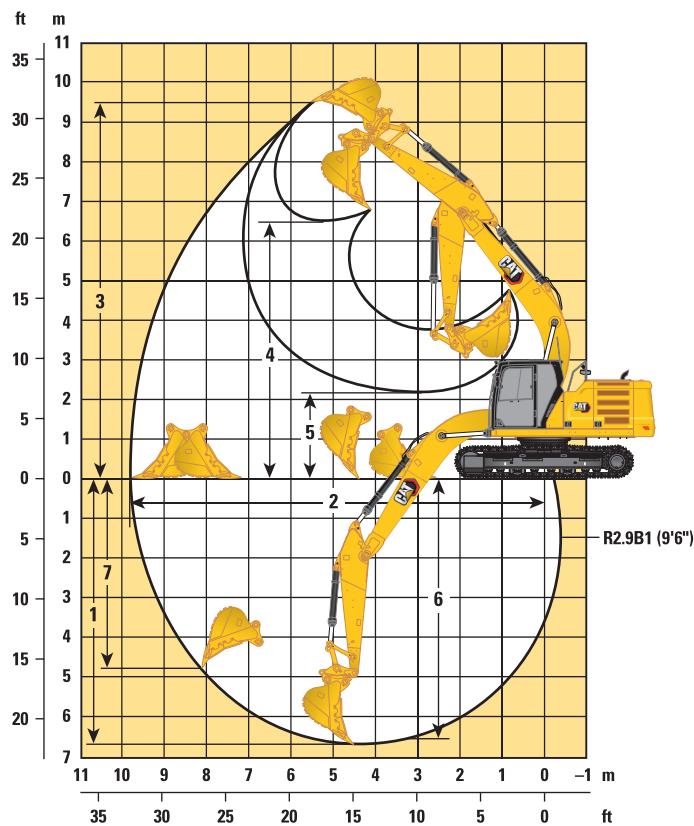
With Boom/Stick/Bucket Installed	9531 mm	31'3"
With Boom/Stick Installed	9499 mm	31'2"
With Boom Installed	8454 mm	27'9"
3 Upperframe Width	2780 mm	9'1"
4 Tail Swing Radius	2833 mm	9'4"
5 Counterweight Clearance	1048 mm	3'5"
6 Ground Clearance	468 mm	1'6"
7 Length to Center of Rollers	3650 mm	12'0"
8 Track Length	4450 mm	14'7"
9 Track Gauge	2380 mm	7'10"

10 Undercarriage Width:

600 mm (24") Shoes	2980 mm	9'9"
790 mm (28") Shoes	3170 mm	10'4"
Bucket Type	GD	
Bucket Capacity	1.30 m ³	1.70 yd ³
Bucket Tip Radius	1584 mm	5'2"

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 Option	Reach Stick R2.9B1 (9'6")	
1 Maximum Digging Depth	6730 mm	22'1"
2 Maximum Reach at Ground Line	9870 mm	32'5"
3 Maximum Cutting Height	9450 mm	31'0"
4 Maximum Loading Height	6490 mm	21'4"
5 Minimum Loading Height	2170 mm	7'1"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	6560 mm	21'6"
7 Maximum Vertical Wall Digging Depth	5610 mm	18'5"
Bucket Digging Force (ISO)	140 kN	31,520 lbf
Stick Digging Force (ISO)	107 kN	23,970 lbf
Bucket Type	GD	
Bucket Capacity	1.30 m ³	1.70 yd ³
Bucket Tip Radius	1584 mm	5'2"

323 GC Hydraulic Excavator Specifications

Bucket Specifications and Compatibility

	Linkage	Width		Capacity		Weight		Fill	Reach
		mm	in	m ³	yd ³	kg	lb	%	R2.9 (9'6")
Pin On (No Coupler)									
General Duty Excavation	B	1150	46	0.90	1.18	758	1,671	100	●
	B	1250	50	1.00	1.31	792	1,747	100	●
	B	1400	56	1.14	1.49	858	1,891	100	○
General Duty	B	1300	51	1.30	1.70	823	1,814	100	○
Heavy Duty	B	1050	43	1.00	1.31	884	1,948	100	●
	B	1200	49	1.19	1.56	955	2,105	100	○
	B	1300	52	1.30	1.70	1015	2,238	100	○
Maximum load with pin-on (payload + bucket)								kg	2960
								lb	6,526
With Pin Grabber Coupler									
General Duty Excavation	B	1150	46	0.90	1.18	758	1,671	100	○
	B	1250	50	1.00	1.31	792	1,747	100	○
	B	1400	56	1.14	1.49	858	1,891	100	○
General Duty	B	1300	51	1.30	1.70	823	1,814	100	○
Heavy Duty	B	1050	43	1.00	1.31	884	1,948	100	○
	B	1200	49	1.19	1.56	955	2,105	100	○
	B	1300	52	1.30	1.70	1015	2,238	100	○
Maximum load with coupler (payload + bucket)								kg	2538
								lb	5,596

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)

⊖ 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.

323 GC Hydraulic Excavator Specifications

Attachments Offering Guide

Not all attachments available in all regions. Consult your Cat dealer for specific configurations available in your region.

Match

PIN-ON ATTACHMENTS

Boom Type	Reach
Stick Length	R2.9 (9'6")
Hydraulic Hammers	✓
H115 GC	✓
H115 GC S	✓
H120 GC	✓
H120 GC Side Mount	✓
H120 GC S	✓
Rotary Cutters	✓
RC20	✓

323 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	
Operator Protective Guard (OPG)		✓	Cat C7.1 single turbo diesel engine	✓
Rollover Protective Structure (ROPS)	✓		Two selectable modes	✓
High-resolution 203 mm (8") LCD touchscreen monitor	✓		Auto engine speed control	✓
Auto bi-level air conditioner	✓		Auto engine idle shutdown	✓
Keyless push-to-start engine control	✓		4500 m (14,760 ft) altitude capability with engine power derate above 3000 m (9,840 ft)	✓
Height-adjustable console	✓		52° C (125° F) high-ambient cooling capacity with derate	✓
Fixed left-side console	✓		-18° C (0° F) cold start capability	✓
Mechanical-suspension seat	✓		-32° C (-25° F) cold start capability	✓
51 mm (2") seat belt	✓		Sealed double element air filter with integrated pre-cleaner	✓
Console mounted radio (with Bluetooth® pairing and USB port)	✓		145 amp dual alternator	✓
24V DC outlet	✓		Electric fuel priming pump	✓
Document storage	✓		Two-stage fuel filtration system with water separator and indicator	✓
Cup and bottle holders	✓		Electric cooling fans with auto-reverse function	✓
Openable two-piece front window	✓		HYDRAULIC SYSTEM	
Upper radial wiper with washer	✓		Electronic main control valve – 1 way high pressure auxiliary circuit ready	✓
Openable steel skylight hatch	✓		Tandem type electronic main pump	✓
LED dome light	✓		Boom and stick regeneration circuits	✓
Roller front sunscreen	✓		Auto warm up	✓
Roller rear sunscreen		✓	Auto two-speed travel	✓
Rear window emergency exit	✓		Boom and stick drift reduction valve	✓
Washable floor mat	✓		Combined flow/high-pressure auxiliary circuit	✓
Beacon ready	✓		Element type main hydraulic filter	✓
CAT TECHNOLOGY			Boom and stick hydraulic hammer lines	✓
Cat Equipment Management:				
VisionLink™		✓ ¹		
Remote Flash		✓		

¹Provides 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.

(continued on next page)

Standard and Optional Equipment (continued)

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

	Standard	Optional	Standard	Optional
UNDERCARRIAGE AND STRUCTURES				
Two-piece segmented track guiding guards	✓		Side entry to service platform	✓
Bottom guards	✓		Grouped location of engine oil and fuel filters	✓
Travel motor guards	✓		S·O·S SM ports	✓
Swivel guard	✓		Ground-level and platform-level engine oil dipsticks	✓
Grease lubricated track	✓		Integrated vehicle health management system	✓
4.7 mt (10,360 lb) counterweight	✓			
600 mm (24") triple grouser track shoes	✓			
790 mm (28") triple grouser track shoes	✓			
Tie-down points on base frame	✓			
BOOM, STICKS AND LINKAGES				
5.7 m (18'8") Reach boom	✓		Auto hammer stop	✓
2.9 m (9'6") Reach stick, B1 linkage	✓		Rearview camera and right-hand side mirror	✓
2.9 m (9'6") Reach bare stick, B1 linkage	✓		Right-hand-sideview camera	✓
Bucket linkage, B1 family without lifting eye	✓		Ground-level engine shutoff switch	✓
Bucket linkage, B1 family with lifting eye	✓		Right-hand handrail and handhold	✓
ELECTRICAL SYSTEM				
Two 1,000 CCA maintenance free batteries	✓		Signaling/warning horn	✓
Programmable time-delay LED working lights	✓		Swing alarm	✓
LED chassis light, left-hand/right-hand boom lights, cab light – 1800 lumens	✓		Service platform with anti-skid plate and countersunk bolts	✓
Centralized electrical disconnect switch	✓		Lockable disconnect switch	✓
			Hydraulic lock out lever neutralizes all controls	✓

323 GC Dealer Installed Kits and Attachments

Dealer Installed Kits and Attachments

Attachments may vary. Consult your Cat dealer for details.

CAB

- Lower wiper
- Polycarbonate roof hatch

SAFETY AND SECURITY

- Operator Protective Guards
- Mesh guard full front
- Mesh guard lower half front
- Cab vandalism guard

SERVICE AND MAINTENANCE

- Grease gun holder

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® C7.1 engine emits 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.

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
 - Automatic engine idle shutdown system reduces idle hours
 - Extended service intervals help decrease maintenance costs
 - Programmable high-efficiency cooling fans run only when needed
 - The latest hydraulic oil filter provides longer life with a 3,000-hour replacement interval

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) – 99 dB(A)

ISO 6396:2008 (inside cab) – 71 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. The measurements were conducted at 70% of the maximum engine cooling fan speed.
- 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. The measurements were conducted at 70% of the maximum engine cooling fan speed.
- 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).

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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AEXQ3963-01 (12-2025)
Replaces: AEXQ3963-00
Build Number: 07H
(Hong Kong, Taiwan)

