



Cat[®] 323 GC

Hydraulic Excavator

The Cat[®] 323 GC Excavator promotes productivity with easy-to-use controls, a comfortable cab, up to 25 percent increased fuel economy and longer service intervals that reduce maintenance costs up to 20 percent – all to give you a durable, low-cost per-hour excavator for your applications.

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

High Performance with Lower Fuel Consumption

- The C7.1 engine can run on biodiesel up to B20 and meets China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 3/EU Stage IIIA.
- Use up to 25 percent less fuel than the 323D2 to keep you moving and productive on the job site.
- The advanced hydraulic system provides the optimum balance of power and efficiency while giving you the control you need for precise digging requirements.
- Valve priority puts hydraulic pressure and flow where you command it to go for fast light- to medium-load cycle times.
- Match the excavator to the job with two power modes; let Smart mode automatically match engine and hydraulic power to digging conditions.
- Auxiliary hydraulic options give you the versatility to use a wide range of Cat attachments.
- Lose less energy and reduce fuel consumption with the positive flow control pump. The pump flow adjusts automatically based on valve priority.
- Advansys™ bucket tips increase penetration and improve cycle times. Tip changes can be done quickly with a simple lug wrench instead of a hammer or special tool, improving safety and uptime. Only available on HD buckets.
- Standard Product Link™ collects data automatically and accurately from your assets – any type and any brand. Information such as location, hours, fuel usage, productivity, idle time, maintenance alerts, diagnostic codes, and machine health can be viewed online through web and mobile applications.

Maintenance

- Expect up to 20 percent less maintenance cost than the 323D2. (Savings calculated over 12,000 machine hours.)
- Do all daily maintenance at ground level.
- Check engine oil level quickly and safely with the new ground-level engine oil dipstick; fill and check engine oil on top of the machine with a conveniently located second dipstick.
- Track your excavator's filter life and maintenance intervals via the in-cab monitor.
- Change all fuel filters at a synchronized 1,000 hours – a 100 percent increase over the 323D2 fuel filters.
- Expect the new air intake filter with integrated precleaner to last up to 1,000 hours in certain applications – a 100 percent increase over the previous filter.
- The new hydraulic oil filter provides improved filtration performance, anti-drain valves to keep oil clean when the filter is replaced, and longer life with a 3,000 hour replacement interval – 50 percent longer than previous filter designs.
- High-efficiency cooling fans run only when needed; you can program intervals so they automatically reverse to keep cores clean without interrupting your work.
- S-O-SSM ports are on ground level, simplifying maintenance and allowing for quick, easy extraction of fluid samples for analysis.



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Reliable, Whatever the Environment

- Work up to 3000 m (9,840 ft) above sea level without de-rating.
- Don't let the temperature stop you from working. The excavator has a standard high-ambient temperature capability of 52° C (125° F) and cold start capability of -18° C (0° F).
- Auto warm up speeds up hydraulic oil warming in cold temperatures and helps prolong the life of components.
- Two levels of fuel filtration protect the engine from dirty diesel fuel.
- Grease sealed between track pins and bushings reduces travel noise and prevents debris from entering to increase undercarriage life.
- The track guiding guard helps keep the excavator track aligned when traveling and working on slopes.
- The sloped track frame prevents mud and debris accumulation, helping reduce the risk of track damage.

All Day Cab Comfort

- The cab has a wide seat that adjusts for operators of all sizes.
- Control the excavator comfortably with easy-to-reach controls all located in front of you.
- Standard automatic climate control keeps you at the right temperature all shift long.
- Feel more comfortable in the cab while you work with reduced cab vibrations from advanced viscous mounts.
- Stow your gear with plenty of in-cab storage beneath and behind the seat, and in the consoles. A cup holder, document holder, bottle holder, and coat hook are also provided.
- Use the standard USB ports and Bluetooth® technology to connect to personal devices.

Simple to Operate

- Start the engine with the push button, a Bluetooth key fob, smartphone app, or the unique Operator ID function.
- Program your power mode and joystick preferences using Operator ID; the excavator will remember what you set 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 or how to maintain the excavator? Always have the operator's manual at your fingertips in the touchscreen monitor.
- Find the tool you need – even if it's hidden beneath overgrowth or debris. Search with your cell phone for any work tool equipped with Cat asset tracking devices up to a range of 60 m (200 ft).

Safety

- Access 100 percent of daily maintenance points from ground level – no need for you to climb on top of the excavator.
- Keep your excavator secure with Operator ID. Use your PIN code on the monitor to enable the pushbutton starting feature.
- The standard ROPS cab meets ISO 12117-2:2008 requirements.
- Enjoy great visibility into the trench, in each swing direction, and behind you with the help of smaller cab pillars, larger windows, and a flat engine hood design. A rearview camera is standard, and a right-side-view mirror is available.
- New right service platform design provides easy, safe, and quick access to upper service platform; the service platform steps use anti-skid punch plate to prevent slipping.
- The standard hydraulic lockout lever isolates all hydraulic and travel functions in the lowered position.
- Ground-level shut-off switch stops all fuel to the engine when activated and shuts down the machine.

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
CAB					
ROPS, sound suppression	✓				
Mechanically adjustable seat	✓				
High-resolution 203 mm (8 in) LCD touchscreen monitor	✓				
Product Link	✓				
ENGINE					
Two selectable power modes	✓				
One-touch low idle with auto engine speed control	✓				
Auto engine idle shutdown	✓				
52° C (125° F) high-ambient cooling capacity	✓				
-18° C (0° F) cold start capability	✓				
Double element air filter with integrated precleaner	✓				
Reversing electric cooling fans	✓				
Biodiesel capability up to B20	✓				
HYDRAULIC SYSTEM					
Boom and stick regeneration circuits	✓				
Auto hydraulic warm up	✓				
Automatic two-speed travel	✓				
Boom and stick drift reduction valve	✓				
Slider joysticks	✓				
Combined flow/high-pressure auxiliary circuit		✓			
BOOM AND STICK					
5.7 m (18'8") reach boom, 2.9 m (9'6") reach stick	✓				
UNDERCARRIAGE AND STRUCTURES					
600 mm (24") triple grouser shoes	✓				
Tie-down points on base frame	✓				
4.7 mt (10,362 lb) counterweight	✓				
ELECTRICAL SYSTEM					
Two 1,000 CCA maintenance-free batteries	✓				
Programmable time-delay LED working lights	✓				
LED chassis light, left-hand/right-hand boom lights, cab lights	✓				
SERVICE AND MAINTENANCE					
Sampling ports for Scheduled Oil Sampling (S-O-S)	✓				
Ground-level and platform-level engine oil dipsticks	✓				
Remote Flash	✓				
SAFETY AND SECURITY					
Rearview camera	✓				
Right-hand mirror	✓				
Ground-level engine shutoff switch	✓				
Right-hand handrail and hand hold	✓				
Signaling/warning horn	✓				

Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area.

For additional information and additional regional offerings, refer to the Technical Specifications brochure available at www.cat.com or your Cat dealer.

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Technical Specifications

Engine

Engine Model	Cat C7.1	
Engine Power (ISO 14396)	118 kW	158 hp
Bore	105 mm	4.0 in
Stroke	135 mm	5.0 in
Displacement	7.01 L	428 in ³
<ul style="list-style-type: none"> The C7.1 engine meets China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 3/EU Stage IIIA. No engine power derating required below 3000 m (9,840 ft) altitude (4500 m [14,760 ft] altitude with engine power derate). Rating at 1,800 rpm. 		

Hydraulic System

Main System – Maximum Flow Implement	429 L/min	113 gal/min
Maximum Pressure – Equipment	35 000 kPa	5,075 psi
Maximum Pressure – Travel	34 300 kPa	4,974 psi
Maximum Pressure – Swing	26 800 kPa	3,886 psi

Swing Mechanism

Swing Speed	11.25 rpm	
Maximum Swing Torque	82 kN·m	60,300 lbf·ft

Machine Weight

Operating Weight	22 600 kg	49,824 lb
<ul style="list-style-type: none"> 4.7 mt (10,362 lb) counterweight, long undercarriage, reach boom, standard 2.9 m (9'6") stick, GD 1.3 m³ (1.7 yd³) bucket and 600 mm (24") triple grouser shoes. 		

Service Refill Capacities

Fuel Tank	345 L	86.6 gal
Cooling System	25 L	6.6 gal
Engine Oil	15 L	4 gal
Swing Drive	5 L	1.3 gal
Final Drive	5 L	1.3 gal
Hydraulic System (including tank)	234 L	61.8 gal
Hydraulic Tank	115 L	30.4 gal

Dimensions

Boom	Reach 5.7 m (18'8")	
Stick	Reach 2.9 m (9'6")	
Bucket	GD 1.3 m³ (1.7 yd³) (J) or HD 1.3 m³ (1.7 yd³) (Adv)	
Shipping Height (top of cab)	2960 mm	9'8"
Handrail Height	2954 mm	9'8"
Shipping Length	9531 mm	31'3"
Tail Swing Radius	2833 mm	9'3"
Counterweight Clearance	1048 mm	3'5"
Track Length to Center of Rollers – Long Undercarriage	4450 mm	14'7"
Track Gauge	2380 mm	7'10"
Transport Width (600 mm [24"] Shoes) – Long Undercarriage	3650 mm	12'0"

Working Ranges and Forces

Boom	Reach 5.7 m (18'8")	
Stick	Reach 2.9 m (9'6")	
Bucket	GD 1.3 m³ (1.7 yd³)	
Maximum Digging Depth	6730 mm	22'0"
Maximum Reach at Ground Level	9870 mm	32'4"
Maximum Cutting Height	9450 mm	31'0"
Maximum Loading Height	6490 mm	21'4"
Minimum Loading Height	2170 mm	7'1"
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	6560 mm	21'6"
Maximum Vertical Wall Digging Depth	4810 mm	15'9"
Bucket Digging Force (ISO)	140 kN	103,259 lbf
Stick Digging Force (ISO)	107 kN	78,919 lbf

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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