



Cat[®] 323 GX

Hydraulic Excavator

Introducing the 323 GX – our economy model with all the reliability and ease of operation you expect from a Cat[®] excavator, with easy maintenance and lower cost features designed to give you a faster return on your equipment investment.

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

Easy to Operate

- The machine's electrohydraulic system allows accurate bucket control for maximum precision.
- Start the engine with a push button.
- Navigate quickly on the high-resolution 203 mm (8 in) touchscreen monitor.
- Control the excavator comfortably with easy-to-reach controls all located in front of you.
- Program your preferences for power mode, joystick pattern, and joystick response using Operator ID. The excavator will automatically remember your selections.

Easy to Maintain

- Do daily maintenance at ground level.
- Up to 20 percent less maintenance cost than the 320D2 L due to enhanced filters and extended and synchronized service intervals (savings calculated over 12,000 machine hours).
- The new air intake filter with precleaner has double the dust holding capacity of the previous air intake filter. Final drive and swing drive oil is double the initial service life – from 250 to 500 hours.
- Fuel filters are synchronized to be changed at 1,000 hours – double the interval from the previous filters.
- 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.
- Grease sealed between track pins and bushings reduces travel noise and prevents debris from entering to help increase undercarriage life.
- Auto warm up speeds up hydraulic oil warming in cold temperatures and helps prolong the life of components.
- 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.
- S-O-SSM oil sampling ports are on ground level, simplifying maintenance and allowing for quick, easy extraction of fluid samples for analysis.

Low Owning and Operating Costs

- The excavator uses up to 15 percent less fuel than the 320D2 L in similar applications.
- Match the excavator to the job with a choice of two modes: Power and Smart. Power mode provides full-time maximum output. Smart mode automatically matches engine and hydraulic power to digging conditions to help conserve fuel without impacting production.
- Product Link™ comes standard so you can remotely monitor fuel consumption as well as machine health, location, and hours on demand through VisionLink[®].
- Save fuel with Automatic Engine Control (AEC). It reduces engine speed when the machine is not under load to minimize fuel consumption.



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Reliable Performance

- A versatile machine that performs well in bucket and hammer applications.
- Booms and sticks are robotically welded and checked ultrasonically to ensure maximum durability.
- Reliable and durable and built on classic, proven components.
- The Cat C4.4 engine and electrohydraulic system work in sync to help you move plenty of material while using less fuel.
- Fast cycle times give you excellent productivity.
- A hammer-ready valve is standard for added versatility.
- Two levels of fuel filtration protect the engine from contaminated diesel fuel.
- Cat undercarriage is built strong to absorb jobsite stresses for enhanced performance and durability.
- General duty buckets are designed for fast material discharge and cleaning.
- Work up to 4500 m (14,760 ft) above sea level with engine power derate above 3000 m (9,840 ft).
- Standard high-ambient temperature capability is 52°C (125°F) with cold start capability at -18°C (0°F).

Work in Comfort

- The cab has a wide seat that adjusts to suit individual operator preferences.
- Standard automatic climate control helps keep you comfortable all shift long.
- Excellent work site visibility from the cab enhances productivity and safety.
- Optimized low-effort joystick controls reduce operator fatigue.
- Convenience features include a radio, auxiliary port for headphones, and a USB port for connecting and charging devices; a 24V DC outlet makes phone charging even faster.
- The cup holder and storage space in front of the controls can hold large cups and wide cell phones; storage behind the seat can hold a large lunchbox and other items.

Enhanced Safety

- Access daily maintenance points from ground level with the exception of the engine oil level – no need to climb on top of the excavator to check filters or grease linkage.
- Enjoy great visibility into the trench, in each swing direction, and behind you with the help of smaller cab posts and larger windows.
- An optional rearview camera enhances visibility.
- Anti-skid plating on the service platform helps prevent slipping.
- The handrails meet ISO 2867:2011 requirements for added safety.
- Keep your excavator secure with Operator ID. Use your PIN code on the monitor to enable the push button starting feature.

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
BOOM AND STICKS			HYDRAULIC SYSTEM		
5.7 m (18'8") Reach boom	✓		Electronic main control valve, hammer ready	✓	
2.9 m (9'6") Reach stick	✓		Back-to-back electronic pump	✓	
CAB			Boom and stick regeneration circuits	✓	
Sound suppressed with viscous mounts	✓		Automatic hydraulic oil warm up	✓	
High-resolution 203 mm (8") LCD touchscreen monitor	✓		Automatic two-speed travel	✓	
Mechanically adjustable seat with headrest	✓		Hammer lines		✓
Automatic bi-level air conditioner	✓		Hammer return filter		✓ ²
Keyless push-to-start engine control	✓		High performance hydraulic return filter	✓	
Floor-mounted adjustable consoles	✓		SAFETY AND SECURITY		
1-button joystick	✓		Anti-skid plating with countersunk bolts	✓	
3-button joystick		✓	FOGS with matching lights		✓
AM/FM radio with USB and aux port	✓		Handrail and handhold	✓	
24V DC outlet	✓		Lockable external tool/storage box	✓	
Cup holder and storage compartments	✓		Rearview camera		✓
70/30 tempered glass windshield	✓		Signaling/warning horn	✓	
Upper radial wiper with washer	✓		Hydraulic lockout lever	✓	
Openable steel hatch	✓		Travel alarm		✓ ³
Dome light	✓		SERVICE AND MAINTENANCE		
Washable floor mat	✓		Grouped location of filters	✓	
CAT TECHNOLOGY			Radiator screen		✓
Cat Product Link	✓		Scheduled Oil Sampling (S•O•S) ports	✓	
ELECTRICAL SYSTEM			UNDERCARRIAGE AND STRUCTURES		
750 CCA maintenance-free batteries (x2)	✓		600 mm (24") triple grouser track shoes		✓
Electrical disconnect switch	✓		790 mm (31") triple grouser track shoes		✓
LED chassis and cab lights	✓		Grease lubricated track link	✓	
LED left-side boom light	✓		Bottom guards	✓	
LED right-side boom light		✓ ¹	Travel motor guards	✓	
ENGINE			4.25 mt (9,370 lb) counterweight	✓	
Two selectable modes: Power, Smart	✓		Tie-down points	✓	
Up to 4500 m (14,764 ft) altitude capability	✓				
52°C (125°F) high-ambient cooling capacity	✓				
-18°C (0°F) cold start capability	✓				
Electric fuel priming pump	✓				
Two-stage fuel filtration system	✓				
Sealed double-element air filter with integrated precleaner	✓				

¹ Indonesia, Southeast Asia, and South America only.

² Africa, Middle East, and South America only.

³ Standard for South America.

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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	C4.4	
Engine Power – ISO 14396:2002	129 kW	174 hp/ 176 hp (metric)
Net Power – ISO 9249:2007	124 kW	166 hp/ 168 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⁾	
<ul style="list-style-type: none"> • Net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system, and alternator. • Rated speed at 2,000 rpm. 		
⁽¹⁾ Cat engines are compatible with the following renewable, alternative, and biofuels* with lower greenhouse gas emission impact: <ul style="list-style-type: none"> ✓ Up to B20 biodiesel (FAME)** ✓ Up to 100% HVO and GTL renewable fuels 		
* Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.		
** For use of blends up to B100, consult your Cat dealer.		

Hydraulic System		
Main System – Maximum Flow – Implement	429 L/min (214.5 L/min x 2 pumps)	113 gal/min (56.5 gal/min x 2 pumps)
Maximum Pressure – Equipment – Normal	35 000 kPa	5,075 psi
Maximum Pressure – Travel	35 000 kPa	5,075 psi
Maximum Pressure – Swing	27 500 kPa	3,988 psi

Swing Mechanism		
Swing Speed	11.13 rpm	
Maximum Swing Torque	82 kN•m	60,333 lbf•ft

Machine Weight		
Operating Weight	22 100 kg	48,700 lb
<ul style="list-style-type: none"> • 4.25 m (13'11") undercarriage, Reach boom, R2.9B1 (9'6") stick, GD 1.2 m³ (1.57 yd³) bucket, 790 mm (31") triple grouser shoes and 4.25 mt (9,370 lb) counterweight. 		
Operating Weight	21 500 kg	47,500 lb
<ul style="list-style-type: none"> • 4.25 m (13'11") undercarriage, Reach boom, R2.9B1 (9'6") stick, GD 1.2 m³ (1.57 yd³) bucket, 600 mm (24") triple grouser shoes and 4.25 mt (9,370 lb) counterweight. 		

Service Refill Capacities		
Fuel Tank	390 L	103 gal
Cooling System	24.5 L	6.5 gal
Engine Oil (with filter)	15 L	4 gal
Swing Drive	12 L	3.2 gal
Final Drive (each)	4.5 L	1.2 gal
Hydraulic System (including tank)	218 L	57.6 gal
Hydraulic Tank	115 L	30.4 gal

Dimensions		
Boom	Reach 5.7 m (18'8")	
Stick	Reach 2.9 m B1 (9'6")	
Bucket	GD 1.20 m³ (1.57 yd³)	
Shipping Height (top of cab)	2960 mm	9'9"
Handrail Height	3030 mm	9'11"
Shipping Length	9515 mm	31'3"
Tail Swing Radius	2830 mm	9'3"
Counterweight Clearance	1046 mm	3'5"
Ground Clearance	468 mm	1'6"
Track Length	4250 mm	13'11"
Length to Center of Rollers	3445 mm	11'4"
Track Gauge	2380 mm	7'10"
Transport Width – 600 mm (24") Shoes	2980 mm	9'9"
Transport Width – 790 mm (31") Shoes	3170 mm	10'5"

Working Ranges and Forces		
Boom	Reach 5.7 m (18'8")	
Stick	Reach 2.9 m B1 (9'6")	
Bucket	GD 1.20 m³ (1.57 yd³)	
Maximum Digging Depth	6710 mm	22'
Maximum Reach at Ground Level	9860 mm	32'4"
Maximum Cutting Height	9470 mm	31'1"
Maximum Loading Height	6500 mm	21'4"
Minimum Loading Height	2180 mm	7'2"
Maximum Depth Cut for 2400 mm (8'0") Level Bottom	6020 mm	19'9"
Maximum Vertical Wall Digging Depth	5740 mm	18'10"
Minimum Working Equipment Radius	3650 mm	12'
Bucket Digging Force (ISO)	140 kN	31,428 lbf
Stick Digging Force (ISO)	107 kN	23,942 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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