



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.

Latest Features

- Make the jobsite safer with an optional swing alarm.
- An optional ISO certified Rollover Protective Structure (ROPS) cab helps protect the operator in the event of a rollover.
*Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area.
Build Number: 05D*

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 pre-cleaner 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.

- Scheduled Oil Sampling (S-O-SSM) 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.

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 -25°C (-13°F)



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Work in Comfort

- The new 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.
- Use the radio's Bluetooth® technology to make hands-free calls.
- 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.
- Enhance jobsite safety. Add a swing alarm to alert people when you're rotating from trench to stockpile and back again.
- An optional ISO certified ROPS cab offered in some regions to help protect the operator in the event of a rollover.

Standard and Optional Equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
UNDERCARRIAGE AND STRUCTURES		
4.25 m (13'11") undercarriage	✓	
Grease lubricated track link	✓	
4250 kg (9,370 lb) counterweight	✓	
Tie-down points	✓	
600 mm (24") triple grouser track shoes		✓
790 mm (31") triple grouser track shoes		✓
CAT TECHNOLOGY		
Cat Product Link™	✓	
CAB		
Sound suppressed with viscous mounts	✓	
High-resolution 203 mm (8") LCD touch screen monitor	✓	
Mechanically adjustable seat with headrest and armrest	✓	
51 mm (2") orange seat belt	✓	
Automatic bi-level air conditioner	✓	
Keyless push-to-start engine control	✓	
Fixed left-side console	✓	
1 button joysticks	✓	
Bluetooth radio with USB/Aux ports	✓	
24V DC outlet	✓	
Cup holder and storage compartments	✓	
Rear window emergency exit	✓	
70/30 tempered glass windshield	✓	
Upper radial wiper with washer	✓	
Openable steel hatch	✓	
LED Dome light	✓	
Washable floor mat	✓	
3 button joysticks		✓
ENGINE		
Cat C4.4 twin turbo diesel engine	✓	
Two selectable modes: Power, Smart	✓	
Up to 4500 m (14,760 ft) altitude capability	✓	
52°C (125°F) high-ambient cooling capacity	✓	
-25°C (-13°F) cold start capability	✓	
Electric fuel priming pump	✓	
Two-stage fuel filtration system	✓	
Sealed double element air filter with integrated pre-cleaner	✓	
BOOM AND STICK		
5.7 m (18'8") Reach boom	✓	
2.9 m (9'6") Reach stick	✓	

	Standard	Optional
ELECTRICAL SYSTEM		
Two 950 CCA maintenance-free batteries	✓	
Electrical disconnect switch	✓	
LED chassis and cab lights	✓	
LED left-side boom light	✓	
LED right-side boom light		✓
SERVICE AND MAINTENANCE		
Grouped location of filters	✓	
S-O-S ports	✓	
Radiator screen		✓
HYDRAULIC SYSTEM		
Electronic main control valve, hammer ready	✓	
Back-to-back electronic pump	✓	
Boom and stick regeneration circuits	✓	
Automatic hydraulic oil warm up	✓	
Automatic two-speed travel	✓	
High performance hydraulic return filter	✓	
Hammer lines		✓
Hammer return filter		✓
SAFETY AND SECURITY		
Anti-skid plating with countersunk bolts	✓	
Handrail and handhold	✓	
Lockable external tool/storage box	✓	
Signaling/warning horn	✓	
Hydraulic lockout lever	✓	
Falling objects guards (FOGS) with matching lights		✓
Rearview camera		✓
Rear- and right-side-view cameras (mandatory for Kingdom of Saudi Arabia; not available in other regions)		✓
ROPS (mandatory for Kingdom of Saudi Arabia; optional in Africa, Middle East, South America; not available in other regions)		✓
Travel alarm (standard in South America)		✓
Swing alarm		✓
Lockout device for disconnect switch (mandatory for Kingdom of Saudi Arabia; not available in other regions)		✓

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Technical Specifications

Engine

Engine Model	Cat C4.4	
Engine Power – ISO 14396	129.4 kW	174 hp
Power – ISO 14396 – Metric	176 metric hp	
Net Power – ISO 9249	123.7 kW	166 hp
Net Power – ISO 9249 – Metric	168 metric hp	
Bore	105 mm	4 in
Stroke	127 mm	5 in
Displacement	4.4 L	269 in ³

- 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.

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	35 000 kPa	5,075 psi
Maximum Pressure – Swing	27 500 kPa	3,988 psi

Swing Mechanism

Swing Speed	11.13 r/min	11.13 r/min
Maximum Swing Torque	82 kN-m	60,333 ft-lbf

Weights

Operating Weight	22 100 kg	48,700 lb
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Service Refill Capacities

Fuel Tank Capacity	390 L	103 gal
Cooling System	24.5 L	6.5 gal
Engine Oil	15 L	4 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	115 L	30.4 gal

Dimensions

Boom	Reach 5.7 m (18'8")	
Stick	Reach R2.9 m (9'6")	
Bucket	GD 1.20 m³ (1.57 yd³)	
Shipping Height – Top of Cab	2980 mm	9.10 ft
Handrail Height	3030 mm	9.11 ft
Shipping Length	9520 mm	31.3 ft
Tail Swing Radius	2830 mm	9.3 ft
Counterweight Clearance	1050 mm	3.5 ft
Ground Clearance	470 mm	1.6 ft
Track Length	4250 mm	13.11 ft
Track Length to Center of Rollers	3450 mm	11.4 ft
Track Gauge	2380 mm	7.1 ft
Transport Width – 600 mm (24 in) Shoes	2980 mm	9.9 ft
Transport Width – 790 mm (31 in) Shoes	3170 mm	10.5 ft

Working Ranges and Forces

Boom	Reach 5.7 m (18'8")	
Stick	Reach R2.9 m (9'6")	
Bucket	GD 1.20 m³ (1.57 yd³)	
Maximum Digging Depth	6710 mm	22 ft
Maximum Reach at Ground Level	9860 mm	32.4 ft
Maximum Cutting Height	9470 mm	31.1 ft
Maximum Loading Height	6500 mm	21.4 ft
Minimum Loading Height	2180 mm	7.2 ft
Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	6020 mm	19.9 ft
Maximum Vertical Wall Digging Depth	5740 mm	18.1 ft
Bucket Digging Force – ISO	140 kN	31 428 ft-lbf
Stick Digging Force – ISO	107 kN	23 942 ft-lbf

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AEXQ3553 (04-2023)
Build Number: 05D
(Afr-ME, Indonesia, S Am,
SE Asia, Sri Lanka)

