

# 323 GX

## HYDRAULIC EXCAVATOR



Net Power – ISO 9249  
Operating Weight  
Maximum Digging Depth

123.7 kW (166 hp)  
22 100 kg (48,700 lb)  
6710 mm (22 ft)



# 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.



### EASY TO OPERATE AND MAINTAIN

Stable and responsive design built on classic, proven components for easy operation and excellent reliability.

### FAST PAYBACK

Low owning costs, maintenance costs, and fuel consumption means more money in your pocket.

### UP TO 15% LOWER FUEL CONSUMPTION

Smart mode and synchronized engine and electrohydraulic control give you competitive performance with low fuel consumption.

# LATEST FEATURES



- Cab Monitor Improvements

1. Continuously improved user interface allows for intuitive navigation, minimizing performance interruption with the easy-to-use touchscreen menu.
2. Identify apps quickly with a grid list view, abbreviated app names, and categorized menu options.
3. A notification center keeps important information visible to the operator, and displays messages without shrinking the camera view.
4. Color coded notifications set critical messages apart from the rest.
5. Use the in-monitor QR code to learn about machine and technology features through a full suite of “how-to” videos.

***Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area. Build Number: 05E***

# 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% 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 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 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% 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-S<sup>SM</sup>) 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% 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.
- 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).



# WORK IN COMFORT

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- 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.
- 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 Rollover Protective Structure (ROPS) cab is offered in some regions to help protect the operator in the event of a rollover.



# INCREASE YOUR PRODUCTIVITY AND PROFIT WITH CAT ATTACHMENTS

You can easily expand the performance of your 323 GX by utilizing a variety of Cat attachments. Each Cat attachment is designed to fit the weight and horsepower of the Cat excavator for improved performance, safety, and stability.

## BUCKETS



## HYDRAULIC HAMMERS



## VIBRATORY PLATES



## PREVENT HAMMER WEAR AND TEAR

Protect your hammer tool from overheating and rapid wear. Auto hammer stop warns you after 15 seconds of continuous firing and then automatically shuts it off after 30 seconds – all to extend the tool's service life.

# MORE THAN MACHINES

BUILT AROUND YOUR SUCCESS

When you buy Cat equipment, you get so much more than the machine. You also get the support of a best-in-class dealer network, backed by a range of flexible solutions, technology, tools, and more.



## CUSTOMER VALUE AGREEMENTS

A Customer Value Agreement (CVA) from your Cat dealer helps you do more and worry less. A CVA simplifies machine ownership and maintenance, adds the security of expert dealer support, and gives you the peace of mind from effective equipment health management.

## GENUINE CAT PARTS

Genuine Cat parts deliver the highest level of reliability and productivity. Order direct from your Cat dealer or shop online at [parts.cat.com](http://parts.cat.com).

## REPAIR OPTIONS

A broad range of repair options give you choices that work with your needs, budget, and timeline. Every repair is performed by expert Cat technicians. You'll receive smart repair advice, a timely, accurate quote, and service that gets your machine back into action quickly.

## FINANCIAL SERVICES

Count on Cat Financial to provide the best finance and extended protection solutions for your business. For more than 30 years, we have helped our customers succeed through financial service excellence.



DOZERS



SKID STEERS



MATERIAL HANDLERS



EXCAVATORS



WHEEL LOADERS



TRACK LOADERS

# TECHNICAL SPECIFICATIONS

## Engine

|                                |  |                     |
|--------------------------------|--|---------------------|
| Net Power - ISO 9249           | 123.7 kW   | 166 hp              |
| Net Power - ISO 9249 (DIN)     | 168 hp (metric)  |                     |
| Engine Model                   | Cat C4.4   |                     |
| Engine Power - ISO 14396       | 129.4 kW   | 174 hp              |
| Engine Power - ISO 14396 (DIN) | 176 hp (metric)  |                     |
| Bore                           | 105 mm   | 4 in                |
| Stroke                         | 127 mm   | 5 in                |
| Displacement                   | 4.4 L  | 269 in <sup>3</sup> |
| Biodiesel Capability           | Up to B20 <sup>1</sup>                                 |                     |
| Emissions                      | Emits equivalent to U.S. EPA Tier 3 and EU Stage IIIA. |                     |

Net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system and alternator with engine speed at 2,000 rpm. Advertised power is tested per the specified standard in effect at the time of manufacture.

<sup>1</sup>Cat engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels\*\* up to: 100% biodiesel FAME (fatty acid methyl ester)\* or 100% renewable diesel, HVO (hydrotreated 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.

## 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 |               |
| Maximum Swing Torque | 82 kN-m     | 60,333 ft-lbf |

## Weights

|  |           |           |
|--|-----------|-----------|
| Operating Weight   | 22 100 kg | 48,700 lb |
| Reach boom, R2.9B1 (9'6") stick, General Duty (GD) 1.20 m <sup>3</sup> (1.57 yd <sup>3</sup> ) bucket, 790 mm (31") triple grouser shoes and 4250 kg (9,370 lb) counterweight. |           |           |

## 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 2.9 m (9'6")                             |          |
| Bucket                            | GD 1.20 m <sup>3</sup> (1.57 yd <sup>3</sup> ) |          |
| Shipping Height - Top of Cab      | 2980 mm  | 9.1 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                   | 3170 mm  | 10.4 ft  |

## Working Ranges & Forces

|   |  |               |
|---|--|---------------|
| Boom  | Reach 5.7 m (18'8")                            |               |
| Stick   | Reach 2.9 m (9'6")                             |               |
| Bucket  | GD 1.20 m <sup>3</sup> (1.57 yd <sup>3</sup> ) |               |
| 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 |

# STANDARD & OPTIONAL EQUIPMENT

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

|  | Standard | Optional |  | Standard | Optional |
|--|----------|----------|--|----------|----------|
| <b>UNDERCARRIAGE AND STRUCTURES</b>                            |          |          | <b>BOOM AND STICK</b>  |          |          |
| 4.25 m (13'11") undercarriage                                  | ✓        |          | 5.7 m (18'8") Reach boom   | ✓        |          |
| Grease lubricated track link                                   | ✓        |          | 2.9 m (9'6") Reach stick   | ✓        |          |
| 4250 kg (9,370 lb) counterweight                               | ✓        |          | <b>ELECTRICAL SYSTEM</b>   |          |          |
| Tie-down points  | ✓        |          | Two 950 CCA maintenance-free batteries   | ✓        |          |
| 600 mm (24") triple grouser track shoes                        |          | ✓        | Electrical disconnect switch   | ✓        |          |
| 790 mm (31") triple grouser track shoes                        |          | ✓        | LED chassis and cab lights   | ✓        |          |
| <b>CAT TECHNOLOGY</b>  |          |          | LED left-side boom light   | ✓        |          |
| VisionLink®  | ✓        |          | LED right-side boom light  |          | ✓        |
| Capability to Remote Flash Cat Product Link™ (telematics only) | ✓        |          | <b>SERVICE AND MAINTENANCE</b>   |          |          |
| VisionLink Productivity  |          | ✓        | Grouped location of filters  | ✓        |          |
| <b>CAB</b>   |          |          | S-O-S ports  | ✓        |          |
| Sound suppressed with viscous mounts                           | ✓        |          | Radiator screen  |          | ✓        |
| High-resolution 203 mm (8") LCD touch screen monitor           | ✓        |          | <b>HYDRAULIC SYSTEM</b>  |          |          |
| Mechanically adjustable seat with headrest and armrest         | ✓        |          | Electronic main control valve, hammer ready  | ✓        |          |
| 51 mm (2") orange seat belt                                    | ✓        |          | Back-to-back electronic pump   | ✓        |          |
| Automatic bi-level air conditioner                             | ✓        |          | Boom and stick regeneration circuits   | ✓        |          |
| Keyless push-to-start engine control                           | ✓        |          | Automatic hydraulic oil warm up  | ✓        |          |
| Fixed left-side console  | ✓        |          | Automatic two-speed travel   | ✓        |          |
| 1 button joysticks   | ✓        |          | High performance hydraulic return filter   | ✓        |          |
| Bluetooth radio with USB/Auxiliary ports                       | ✓        |          | Hammer lines   |          | ✓        |
| 24V DC outlet  | ✓        |          | Hammer return filter   |          | ✓        |
| Cup holder and storage compartments                            | ✓        |          | <b>SAFETY AND SECURITY</b>   |          |          |
| Rear window emergency exit                                     | ✓        |          | Anti-skid plating with countersunk bolts   | ✓        |          |
| 70/30 tempered glass windshield                                | ✓        |          | Handrail and handhold  | ✓        |          |
| Upper radial wiper with washer                                 | ✓        |          | Lockable external tool/storage box   | ✓        |          |
| Openable steel hatch   | ✓        |          | Signaling/warning horn   | ✓        |          |
| LED Dome light   | ✓        |          | Hydraulic lockout lever  | ✓        |          |
| Washable floor mat   | ✓        |          | Lockable disconnect switch   | ✓        |          |
| 3 button joysticks   |          | ✓        | Operator Protective Guards (OPG) with matching lights  |          | ✓        |
| <b>ENGINE</b>  |          |          | Rearview camera  |          | ✓        |
| Cat C4.4 twin turbo diesel engine                              | ✓        |          | Rear- and right-side-view cameras (mandatory for Kingdom of Saudi Arabia; not available in other regions)  |          | ✓        |
| Two selectable modes: Power, Smart                             | ✓        |          | Rollover protective structure (ROPS) (mandatory for Kingdom of Saudi Arabia; optional in Africa, Middle East, South America; not available in other regions) |          | ✓        |
| Up to 4500 m (14,760 ft) altitude capability                   | ✓        |          | Travel alarm (standard in South America)   |          | ✓        |
| 52° C (125° F) high-ambient cooling capacity                   | ✓        |          | Swing alarm  |          | ✓        |
| -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   | ✓        |          |  |          |          |





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AEXQ3299-03 (01-2024)  
Replaces AEXQ3299-02  
Build Number: 05E  
(Afr-ME, Eurasia, Indonesia,  
S Am [except Brazil, Chile],  
SE Asia, Sri Lanka)

