323

HYDRAULIC EXCAVATOR



Net Power – ISO 9249	**117 kW (157 hp)**
Operating Weight	**22 900 kg (50,500 lb)**
Maximum Digging Depth	**6730 mm (22.1 ft)**

CAT®

323

HYDRAULIC EXCAVATOR

The Cat® 323 delivers power, speed, and high production performance. With more standard technology than previous models, plus reduced fuel and maintenance costs, the Cat 323 has all you need to take your business to the next level.



LOW FUEL CONSUMPTION

A precise combination of lower engine speed and a large hydraulic pump deliver top performance, helping to burn less fuel.

LOW MAINTENANCE COSTS

Extended and more synchronized maintenance intervals help increase uptime and reduce costs compared to the previous model.

HIGH OPERATING EFFICIENCY

Offering standard factory-equipped technology to help improve operation output, including Cat Grade with 2D, Grade with Assist and Payload.

LATEST FEATURES



Machine Setup Simplification

- At the touch of fingertips and navigating user-friendly icons, the latest operator oriented User Interface (UI) maximizes uptime and gets crews to work without delay. From re-ordering work tool lists to creating new work tool combinations as needed, operators can quickly set up machines and easily access information.
- The interface allows operators to maintain accuracy and makes the most of every second of their shift. Adding the ability to input couplers and attachments into the system makes setting up work tool combinations highly efficient by significantly reducing calibration time. It also eliminates the need to measure up again when changing Cat work tool attachments and makes it manageable for a single person to check and adjust for bucket wear.

Cat Grade 3D Ready

- The Cat Grade 3D Ready option includes all the hardware required for the Grade with 3D system, installed and tested from the factory. This option provides an easier upgrade path for customers who want to add Grade with 3D after their initial purchase. To activate, contact your Cat dealer to purchase the required 3D software licenses. Licenses can be installed remotely or manually loaded onto the machine.

Cat Payload and Advanced Payload

- Cat Payload provides operators with on-the-go weighing to help them hit load targets and avoid overloading, underloading, or misloading materials. Advanced Payload is a system upgrade that offers expanded features and capabilities, including custom tags, daily totals, and electronic ticketing. Combine Payload with VisionLink™* to analyze jobsites and individual assets for remote management of production targets and key metrics.

**VisionLink subscription required. Availability may vary by region, consult your Cat dealer for more details.*
Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area.
Build Number: 07H.

MOVE MORE WITH LESS FUEL



- Consume lower fuel in comparison to the Cat 323D2 excavator.
- Help improve operator efficiency with a suite of Cat technologies including VisionLink, Cat Grade 2D, Cat Payload, and more.
- Match the excavator to the job using power modes; let Smart mode automatically match engine and hydraulic power to your working conditions.
- The advanced hydraulic system provides the optimum balance of power and efficiency while giving you the control you need for precise digging requirements.
- The electronically controlled, turbocharged engine can run on biodiesel up to B20 and meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- Auxiliary hydraulic options give you the versatility to use a wide range of Cat attachments.
- 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). An optional -32° C (-25° F) cold start package is available.

TECHNOLOGY THAT GETS WORK DONE

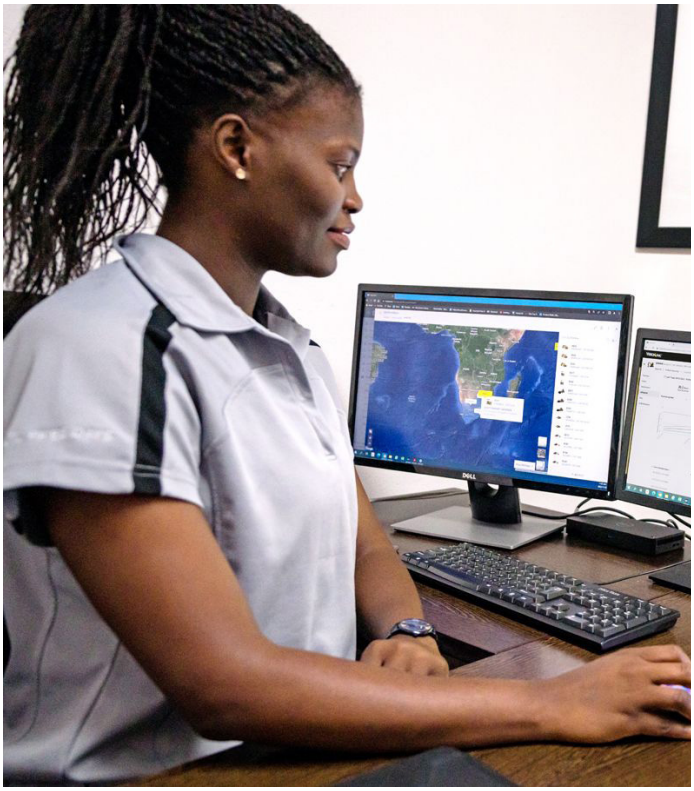
- The latest operator oriented User Interface (UI) has been designed to maximize uptime by allowing operators to easily re-order work tool lists and quickly create new work tool combinations. It also eliminates the need to measure up again when changing Cat work tool attachments and makes it manageable for a single person to check and adjust for bucket wear.
- Leverage standard Cat Grade with 2D system with indicate-only and laser capability to help boost productivity.
- Want a 3D system to improve your digging results? Caterpillar single antenna global navigation satellite system (GNSS) makes it easy by giving you visual and auditory guidance to grade. Plus, you can create and edit designs on the touchscreen monitor while you're on the job. If your application calls for a dual antenna system, it's easy to upgrade.
- Upgrade to our dual antenna GNSS for maximum grading efficiency. The system lets you create and edit designs on the touchscreen monitor while you're on the job, or you can have the plan design sent to the excavator to make your work easier. Plus, you get added benefits of avoidance zones, cut and fill mapping, lane guidance, and augmented reality along with advanced positioning capability.
- All Cat Grade systems are compatible with radios and base stations from Trimble, Topcon, and Leica. Already invested in a grade infrastructure? You can install grade systems from Trimble, Topcon, and Leica onto the machine.
- The Cat Grade 3D Ready option includes all the hardware required for the Grade with 3D system, installed and tested from the factory. Activation requires the purchase of additional 3D software licenses.
- Standard Grade Assist helps you stay on grade – simply and effortlessly – with single-lever digging.
- Keep the tracks on ground in lifting and hard digging with Boom Assist.
- Set your desired bucket angle and let Bucket Assist automatically maintain the angle in sloping, leveling, fine grading, and trenching applications.
- Automatically stop excavator swing at operator-defined set points in truck loading and trenching applications with Swing Assist, which will help you use less effort and consume less fuel.
- Cat Payload helps you achieve precise load targets to improve your operating efficiency. Pick up a load of material – with a bucket and thumb combination or grapple and clamshell attachments – and get a real-time weight estimate without swinging.
- Advanced Payload is a system upgrade that offers expanded features and capabilities, including custom tags, daily totals, and electronic ticketing.
- Combine Payload with VisionLink and remotely manage your production targets.
- Optional Operator Coaching is an in-cab system that recognizes specific opportunities for operators to be more productive and prevent unnecessary machine wear and tear.



TAKE THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

- VisionLink provides actionable data insights for all assets – regardless of fleet size or equipment manufacturer.* Review equipment data from your desktop or mobile device to maximize uptime and optimize assets. Equipment management features provide up-to-date asset tracking of your entire fleet. You can track asset location, operating hours, fuel level, health issues, and overall utilization. Monitor equipment health with fault codes, fluid analysis, and inspection due dates. It's all about making informed, data-based decisions to help reduce operating costs. Productivity management features enable you to analyze overall jobsite performance. You'll be able to track tonnage moved, production targets, and payload, as well as Grade 3D and compaction data. These vital metrics help you to reduce costs and improve jobsite operational efficiency.
- Cat Inspect is a mobile application that allows you to easily perform digital preventative maintenance (PM) checks, inspections, and daily walkarounds. Inspections can easily be integrated with other Cat data systems like VisionLink so you can keep a close eye on your fleet.
- Remote Troubleshoot is a mobile application that allows your Cat dealer to perform diagnostic testing on your connected machine remotely to help ensure that issues are resolved quickly and with less downtime.
- Remote Flash is a mobile application that allows you to update onboard software without a technician being present, allowing you to initiate software updates when convenient, increasing your overall operating efficiency.
- The Cat PL161 attachment locator allows you to track attachments across all worksites, reduce the number of lost attachments, and plan for attachment maintenance and replacement. The work tool recognition feature automatically adjusts machine settings based on the selected tool.

**Data field availability can vary by equipment manufacturer.*



DESIGNED FOR OPERATORS



- Two cab options – Comfort and Deluxe – let you choose the level of comfort you need.
- Enjoy wide spacing between consoles for a more comfortable environment.
- Sit in the lastest, wide seats that adjust for operators of all sizes (heated option available).
- Get in and out of the cab easier using the tilt-up left console (in Deluxe cab only).
- Control the excavator comfortably with easy-to-reach controls located in front of you.
- Standard automatic climate control keeps you at the right temperature throughout your shift.
- Stow your gear with plenty of in-cab storage behind and beneath the seat, overhead, and in the consoles. A cup holder, document holder, bottle holder, and coat hook are included.
- The standard radio has USB ports and Bluetooth® technology enabled to connect your device and make hands-free calls.

BUILT FOR LONG-TERM PRODUCTION

- Protect hydraulic components in cold weather. The auto warm-up feature speeds hydraulic oil warming in cooler temperatures.
- The fuel system is protected from contamination of fuel by three levels of filtration.
- Bottom guarding protects engine and hydraulic components from damage while swinging and traveling.
- The hydraulic tank with an oval shape designed to improve stress resistance.
- The strong X-structure lower frame carries loads from the excavator's upper structure to the track.
- Travel motor hydraulic lines are routed inside of the frame to protect them from damage.
- The sloped track frame design prevents mud and debris from accumulating and damaging tracks.
- The grease lubricated tracks have grease sealed between the pin and bushing to prevent debris from entering and reducing life.
- The track rollers are rebuild-able and sealed to prevent dirt and debris causing wear of internal components.
- A bolt-on track guiding guard helps maintain track alignment while traveling or working on slopes.



SIMPLE TO OPERATE



- Start the engine with the push of a button; use a Bluetooth key fob or Operator ID passcode.
- Trouble cutting through tough material? Auto Dig Boost gives you an automatic power increase up to 8% when you need it for better bucket penetration, shorter cycle times, and greater payloads.*
- Need more lift during your shift? Auto Heavy Lift gives you up to 8% more power exactly when you need it for as long as you need it.*
- Make moving the excavator much easier with Cat Stick Steer. Simply push a button and use one hand to travel and turn instead of both hands or feet on levers or pedals.
- Make operating easier with the touch of a joystick button. Additional auxiliary relays allow you to power on or turn off a CB radio, beacon light, and even a dust suppression watering system without taking your hands off the joysticks.
- Navigate quickly on the high-resolution monitor.
- 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.
- Use the in-monitor QR code to learn about machine and technology features through a full suite of how-to videos.
- 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.
- The Cat PL161 attachment locator is a Bluetooth device designed to let users know where their attachments are across all worksites, reduce the number of lost attachments, and plan for attachment maintenance and replacement. The PL161 integrates easily into VisionLink for full fleet management of machines and attachments from one smartphone or tablet dashboard to view location and tracking details.
- Save more time and energy with the available work tool recognition feature. A simple shake of the attached tool confirms its identity and ensures all the attachment settings (pressure, flow, and dimensions) are correct so you can work quickly and efficiently.**

**Auto Dig Boost and Auto Heavy Lift calculations are based on 380 bar (boost pressure) divided by 350 bar (standard pressure). Does not apply to long reach excavators.*

***Automated attachment settings must be enabled within each machine configuration. Consult your Cat dealer for details.*

LOWER MAINTENANCE COSTS



- Extended maintenance intervals help reduce maintenance costs in comparison to the 323D2 series excavator.
- Boost productivity with proactive service reminders. The integrated vehicle health management system alerts the operator with step-by-step service guidance along with parts needed so you don't experience any unnecessary downtime.
- Reversing electric cooling fans make it easy to clean radiator, oil coolers, and condensers.
- The latest engine air cleaner with integrated pre-cleaner has twice the life of radial seal air cleaners.
- The latesthydraulic 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.
- Track your excavator's filter life and maintenance intervals via the in-cab monitor.
- Check engine oil level quickly and safely with the engine oil dipstick located on ground level.
- S·O·S℠ ports with extended sampling intervals are on ground level, simplifying maintenance and allows for quick easy extraction of samples for fluid analysis.
- Using Cat genuine oil and filters and doing your typical S·O·S monitoring will extend the current service interval to 1,000 hours, giving you greater uptime to do more work.

SAFELY HOME EVERY DAY

- Optional Cat Detect – People Detection helps protect the most valuable asset on any jobsite – people. The system uses smart cameras with depth sensors to provide the operator with visual and auditory alerts so he or she can take immediate action when a person is too close to the excavator.*
- Optional Cat Command remote control enables equipment operators to work safely outside the machine when working in hazardous environments. Command offers the choice of handheld consoles** (line-of-sight) or long-distance virtual stations (non-line-of-sight). Deep integration with machine systems enables efficiency and productivity by maintaining the use of in-cab technology** features (Grade, Payload, Assist, etc.).
- Lift Assist helps you avoid tipping. With visual and auditory alerts, you'll know if your load is within the excavator's safe working range limits.
- 2D E-Fence prevents the excavator from moving outside of operator-defined set points; the system works with thumb and bucket combinations along with hammer, grapple, and clamshell attachments.
- Access 100% of daily maintenance inspection points from ground level – no need for you to climb on top of the excavator.
- Keep your excavator secure. Use your PIN code on the monitor or the Bluetooth key fob to enable the pushbutton starting feature.
- The standard Rollover Protective Structure (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 posts and larger windows.
- A rearview camera is standard and upgradable to an optional 360° visibility camera for visibility and you'll easily visualize objects and personnel around the excavator in a single view.
- The right-hand 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 handrails comply with ISO2867:2011 requirements.
- Make service work easier with optional inspection lighting. With the flip of a switch, lights will illuminate the engine, pump, battery, and radiator compartments to enhance visibility.
- Enhance jobsite safety. Add a swing alarm to alert people when you're rotating from trench to stockpile and back again.

**The system may not detect personnel in certain circumstances, such as fast swing speeds, people lying down or crouching, or when cameras are impaired by low light conditions (dusk, dawn, overcast), inclement weather (snow, rain, fog), or other similar conditions. For limitations of use, refer to the operation and maintenance manual.*

***Operator assist features for the Command Console are not available in Europe, Australia, and New Zealand.*



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 world-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.

REPAIR OPTIONS

A broad range of repair options gives 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.

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.

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

INCREASE YOUR PRODUCTIVITY AND PROFIT

WITH CAT ATTACHMENTS

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

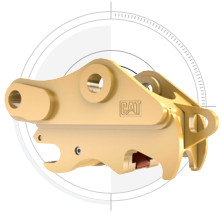
BUCKETS



HYDRAULIC HAMMERS



QUICK COUPLERS



TILTROTATOR



SECONDARY PULVERIZERS



SHEARS



GRAPPLES



MULTI-PROCESSORS



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.

DO HARD-TO-REACH WORK

With 360° rotation and 40° side-to-side tilting action, a Cat tiltrotator will help you get complex work done faster. A new system upgrade from the factory allows the tool to work with Cat 2D Grade, Assist, Payload, and E-Fence. It includes factory-fit joysticks, but uses the standard cab monitor to display the tool and engage its SecureLock™ so you don't need to spend money on an extra monitor. It also works seamlessly with other brands with no additional hardware required. All you have to do is simply select "Third Party Tiltrotator System Installation" in the monitor, do the calibration, and get to work.

TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

ENGINE

Net Power – ISO 9249	117 kW	157 hp
Net Power – ISO 9249 (DIN)	159 hp (metric)	
Engine Model	Cat® C7.1	
Engine Power – ISO 14396	118 kW	158 hp
Engine Power – ISO 14396 (DIN)	160 hp (metric)	
Bore	105 mm	4 in
Stroke	135 mm	5 in
Displacement	7.01 L	428 in³
Biodiesel Capability	Up to B20[1]	
Emissions	Meets Brazil MAR-1 emission standards, 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 1,800 rpm. Advertised power is tested per the specified standard in effect at the time of manufacture.

[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 (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	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	27 500 kPa	3,998 psi

SWING MECHANISM

Swing Speed*	11.25 r/min	
Maximum Swing Torque	82 kN·m	60,300 lbf·ft

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

WEIGHTS

Operating Weight	22 900 kg	50,500 lb

Long undercarriage, Heavy Duty (HD) Reach boom, HD R2.9 (9'6") stick, 1.30 m³ (1.70 yd³) HD bucket, 600 mm (24") HD shoes, and 4200 kg (9,260 lb) counterweight.

SERVICE REFILL CAPACITIES

Fuel Tank Capacity	345 L	91.1gal
Cooling System	25 L	6.6 gal
Engine Oil	25 L	6.6 gal
Swing Drive – Each	12 L	3.2 gal
Final Drive – Each	4 L	1.1 gal
Hydraulic System – Including Tank	234 L	61.8 gal
Hydraulic Tank	115 L	30.4 gal

DIMENSIONS

Boom	HD Reach 5.7 m (18'8")	
Stick	HD Reach 2.9 m (9'6")	
Bucket	HD 1.30 m³ (1.70 yd³)	
Shipping Height – Top of Cab	2960 mm	9.9 ft
Handrail Height	2950 mm	9.8 ft
Shipping Length	9530 mm	31.3 ft
Tail Swing Radius	2830 mm	9.3 ft
Counterweight Clearance	1050 mm	3.4 ft
Ground Clearance	470 mm	1.7 ft
Track Length	4450 mm	14.7 ft
Length to Center of Rollers	3650 mm	12 ft
Track Gauge	2380 mm	7.8 ft
Transport Width	2980 mm	9.9 ft

WORKING RANGES AND FORCES

Boom	HD Reach 5.7 m (18'8")	
Stick	HD Reach 2.9 m (9'6")	
Bucket	HD 1.30 m³ (1.70 yd³)	
Maximum Digging Depth	6730 mm	22.1 ft
Maximum Reach at Ground Level	9870 mm	32.4 ft
Maximum Cutting Height	9450 mm	31 ft
Maximum Loading Height	6480 mm	21.3 ft
Minimum Loading Height	2160 mm	7.1 ft
Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	6560 mm	21.6 ft
Maximum Vertical Wall Digging Depth	5620 mm	18.5 ft
Bucket Digging Force – ISO	140 kN	31,505 lbf
Stick Digging Force – ISO	107 kN	23,962 lbf

STANDARD AND OPTIONAL EQUIPMENT

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

UNDERCARRIAGE AND STRUCTURES	STANDARD	OPTIONAL
Tie-down points on base frame	●	
600 mm (24") HD triple grouser shoes		●
600 mm (24") double grouser shoes		●
700 mm (28") HD triple grouser shoes		●
790 mm (31") HD triple grouser shoes		●
5400 kg (11,900 lb) counterweight		●
4200 kg (9,300 lb) counterweight		●

BOOM AND STICKS	STANDARD	OPTIONAL
5.7 m (18'8") HD Reach boom		●
8.85 m (29'0") Super Long Reach boom		●
2.9 (9'6") HD Reach stick		●
2.5 (8'2") HD Reach stick		●
2.9 (9'6") Reach stick		●
2.5 (8'2") Reach stick		●
6.28 m (20'7") Super Long Reach stick		●

ELECTRICAL	STANDARD	OPTIONAL
Two 1,000 CCA maintenance-free batteries	●	
Programmable time-delay LED working lights	●	
LED chassis light, left and right hand boom lights for reach , cab lights-850 lumens	●	
Four 1,000 CCA maintenance-free batteries		●

CAT® TECHNOLOGY	STANDARD	OPTIONAL
VisionLink	●	
Remote Flash	●	
Remote Troubleshoot	●	
Work tool recognition and tracking (PL161)	●	
Cat Grade with 2D	●	
Cat Assist	●	
Cat Payload	●	
Operator Coaching		●
Cat Grade 2D with Attachment Ready Option (ARO)		●
Cat Grade 3D Ready		●
Cat Grade with 3D (single or dual GNSS)		●
Cat Advanced Payload		●
Cat Tilt Rotator (TRS) Integration		●

SERVICE AND MAINTENANCE	STANDARD	OPTIONAL
S·O·S℠ ports	●	
Ground-level and platform-level engine oil dipsticks	●	
Integrated vehicle health management system	●	

CAB	STANDARD	OPTIONAL
ROPS	●	
Mechanically adjustable seat (Comfort only)	●	
Air-adjustable seat with heat (Deluxe only)	●	
High-resolution 203 mm (8 inch) LCD touchscreen monitor	●	
High resolution 254 mm (10 inch) LCD touchscreen monitor		●
Operator Protective Guards (OPG)		●
Cat Stick Steer		●
Auxiliary relay		●

ENGINE	STANDARD	OPTIONAL
Cat 7.1 single turbo diesel engine	●	
Automatic engine speed control	●	
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	●	
–32° C (–25° F) cold start capability		●

HYDRAULIC SYSTEM	STANDARD	OPTIONAL
Boom and stick regeneration circuits	●	
Auto warm up	●	
Auto two-speed travel	●	
Auto dig boost	●	
Boom and stick drift reduction valve	●	
Hammer return filter circuit		●
Combined flow/high pressure auxiliary circuit		●
Hydraulic efficiency monitoring		●
Quick coupler circuit for Cat Pin Grabber		●

SAFETY AND SECURITY	STANDARD	OPTIONAL
2D E-Fence	●	
Auto hammer stop	●	
Rearview camera	●	
Ground-level engine shutoff switch	●	
Lockable disconnect switch	●	
Right-hand handrail and handhold	●	
Signaling/warning horn	●	
Cat Command (remote control)		●
360° visibility		●
Inspection lighting		●
Swing alarm		●



AEXQ4171-01 (10-2025)
Replaces: AEXQ4171-00
Build Number: 07H
(Afr-ME, Aus-NZ, Eurasia,
Hong Kong, S Am [except Chile,
Colombia], Pacific Islands,
Taiwan, Thailand)

For more complete information on Cat products, dealer services and industry solutions, visit us on the web at www.cat.com.

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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