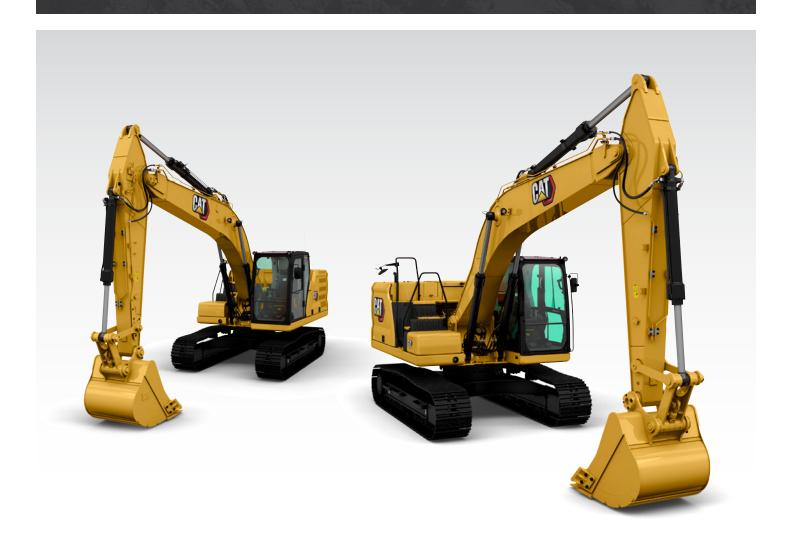


NEXT GENERATION EXCAVATORS

Cat® Next Generation Excavators offer you more choices than ever for your business.

- + MORE MODEL OPTIONS
- + MORE STANDARD TECHNOLOGIES
- + MORE PRICE POINTS

Ready to help you make your business stronger, Cat Next Generation Excavators give you new ways to get the most work done at the lowest cost.



CAT 320 MOVING THE STANDARD HIGHER

The **CAT 320** raises the bar for efficiency and fuel economy in this size class. With the industry's highest level of standard factory technology, a cab made for operator comfort, plus lower fuel and maintenance costs, the 320 will help make your operation more productive and profitable.



INCREASE EFFICIENCY **UP TO 45%**¹

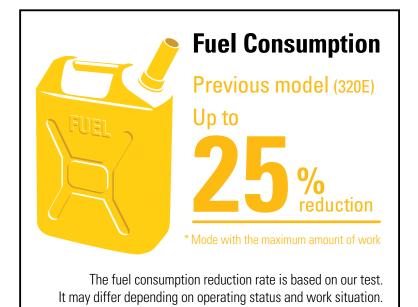
The Cat 320 offers the industry's highest level of standard factory-equipped technology, including Cat GRADE with 2D, GRADE with Assist, and Payload.

REDUCE FUEL CONSUMPTION **UP TO 25**%²

A precise combination of lower engine speed and a large hydraulic pump delivers top performance while burning less fuel.

LOWER MAINTENANCE COSTS **UP TO 20%**³

Extended and more synchronized maintenance intervals increase uptime and reduce costs compared to the 320E.



¹Operator efficiency gains compared to traditional grading methods.

² Compared to the 320E.

³ Cost reduction based on 12,000 hours of operation.



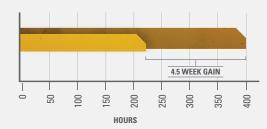
STANDARD CAT TECHNOLOGY

GETS JOBS DONE FASTER WITH LESS REWORK

Onboard Cat Technology gives you the edge. Operators of all experience levels will dig, load and grade with more confidence, speed, and accuracy. The result? Better productivity and lower costs.

WHAT WOULD YOU DO WITH 4.5 MORE WEEKS?

45% GAIN WITH TECHNOLOGY means same amount of work done faster



PREVIOUS YEAR:

USING TRADITIONAL GRADING METHODS

400 hours/year, grading with stakes and checkers

CURRENT YEAR:

USING CAT 320 WITH CAT TECHNOLOGY

220 hours/year, with standard Cat GRADE with Assist



STANDARD, SIMPLE-TO-USE TECHNOLOGIES INCLUDE:



STANDARD CAT GRADE WITH 2D

Cat Grade with 2D helps operators reach grade faster. Operators cut and fill to exact specifications without overcutting. You can program up to four of your most commonly used target depth and slope off sets so you can get to grade with ease - a real time saver on the jobsite. Best of all, no grade checkers are needed so the work area is safer.



STANDARD CAT PAYLOAD

With bucket or grapple, Cat Payload technology delivers precise load targets with on-the-go weighing, which helps prevent over/ underloading and maximizes efficiency. Automated tracking helps manage production and lower cost. You can even take payload data with you. The monitor's USB port lets you download your results from one shift all the way up to 30 days of work so you can manage your progress without needing an internet connection or VisionLink® subscription.



STANDARD CAT GRADE WITH ASSIST

Automated boom and bucket movements deliver more accurate cuts with less effort. The operator simply sets the depth and slope into the monitor and activates single-lever digging.

AVAILABLE OPTIONAL UPGRADES

Cat Grade with Advanced 2D and Cat Grade with 3D increase productivity and expand grading capabilities. Grade with Advanced 2D adds in-field design capabilities through an additional 254 mm (10 inch) high-resolution touchscreen monitor. Grade with 3D adds GPS and GLONASS positioning for pinpoint accuracy. All Cat Grade systems are compatible with radios and base stations from Trimble, Topcon, and Leica. Already invested in grade infrastructure? You can install grade systems from Trimble, Topcon, and Leica onto the machine.

CAT EQUIPMENT MANAGEMENT TECHNOLOGY

TAKES THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

Cat Equipment Management telematics technology helps take the complexity out of managing your jobsites – by gathering data generated by your equipment, materials, and people and serving it up to you in customizable formats.



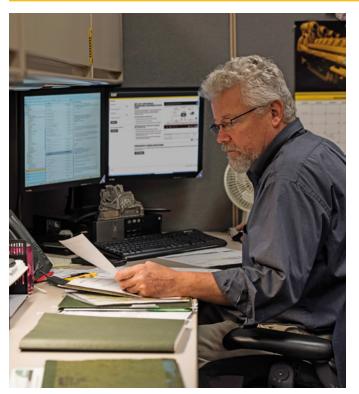
PRODUCT LINK™

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.



VISIONLINK®

Access information anytime, anywhere with VisionLink – and use it to make informed decisions that boost productivity, lower costs, simplify maintenance, and improve safety and security on your jobsite. With different subscription level options, your Cat dealer can help you configure exactly what you need to connect your fleet and manage your business without paying for extras you don't want. Subscriptions are available with cellular or satellite reporting (or both).



Remote Services is a suite of technologies that improve your jobsite efficiency.

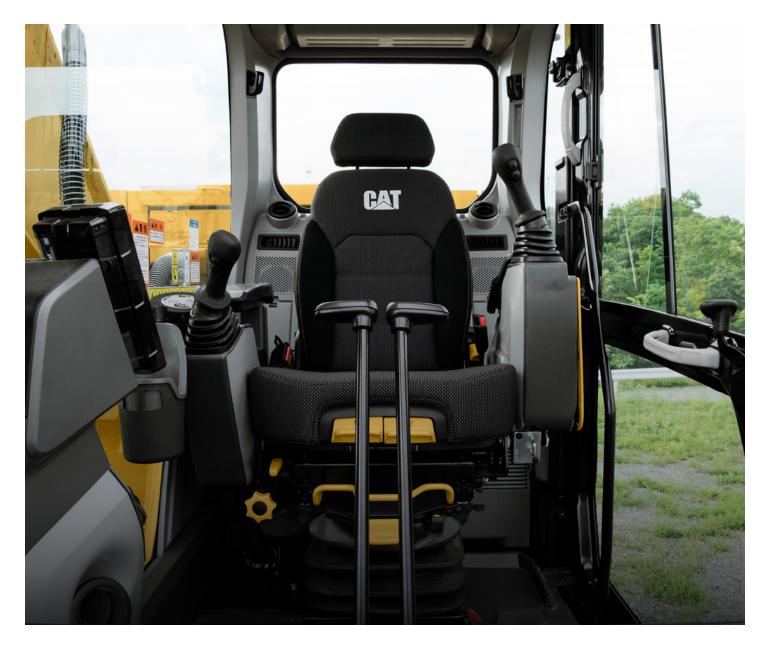
Remote Troubleshoot allows your Cat dealer to perform diagnostic testing on your connected machine remotely, pinpointing potential issues while the machine is in operation. Remote Troubleshoot ensures the technician arrives with the correct parts and tools the first time, eliminating additional trips to save you time and money.

Remote Flash updates on-board software without a technician being present, potentially reducing update time by as much as 50%. You can initiate the update when convenient, increasing your overall operating efficiency.

The **Cat App** helps you manage your assets – at any time – right from your smartphone. You can see your fleet location, hours, and other information you need to see. You will get critical alerts for required maintenance, and you can even request service from your local Cat dealer.

CAB TAKES THE HARD OUT OF WORK

Sites where excavators typically work are rugged and challenging. That's why it's important that the 320 cab protects the operator as much as possible from the fatigue, stresses, sounds, and temperatures of the job.



SEAT AND JOYSTICK CONSOLE REDUCE FATIGUE

Comfort and efficiency of movement keep operators productive and alert all shift long. The standard seat is wide and adjustable for operators of virtually any size. The Deluxe cab package includes a heated air suspension seat.





TOUCHSCREEN MONITOR

Most machine settings can be controlled through the high-resolution 203 mm/8 inch (or optional 254 mm/10 inch) touchscreen monitor. It offers 42 languages and is easy to reach from the seat - no twisting or turning.





SMART SETTINGS

Smart Mode automatically adjusts power to meet work demand with maximum fuel efficiency. Auto Dig Boost increases power by up to 8% for better bucket penetration, shorter cycle times, and greater payloads.



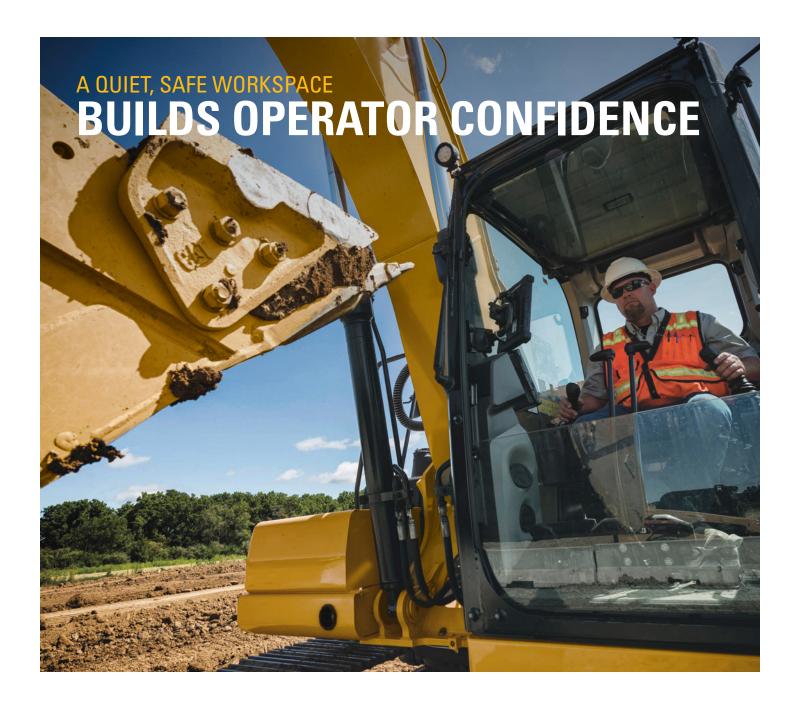
CUSTOMIZABLE JOYSTICKS

Joystick function can be customized through the monitor. 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.



KEYLESS PUSH START

The 320 uses a keyless push-button engine start. This adds security for the machine by using Operator ID codes to limit and track machine access. Codes can be entered manually via an optional Bluetooth® key fob.



ISO-CERTIFIED ROPS CAB

The ISO-certified ROPS cab is soundsuppressed and sealed. The windows and lower front profile of the machine give outstanding visibility to the work area without the strain of constantly leaning forward.

ALL-AROUND VISIBILITY

A standard rearview camera keeps operators aware of their surroundings at all times. An optional 360° Visibility feature is also available.

EASY ACCESS, CONNECTIVITY AND STORAGE

Convenience features include Bluetooth integrated radio, USB ports for charging and phone connectivity, 12V DC outlets and AUX port, storage in rear, overhead and console compartments, and cup and bottle holders.

SAFETY FEATURES

LOOK OUT FOR YOUR PEOPLE AND YOUR EQUIPMENT



Daily maintenance checks can be performed with 100% of the points accessible from ground level, making maintenance faster, easier, and safer. Checkpoints include the engine oil dipstick, fuel water separator, fuel tank water and sediment drains, and cooling system coolant level check.



The DEF SCR system meets Japan 2014 (Tier4 Final) emission standards. The DEF tank is laid out in a location that can be accessed from the ground level of the right front part of the machine, and it can safely and easily be replenished. Simply check the gauge that is equipped in the DEF tank.



INSPECTION LIGHTING

Make service work easier and safer with optional inspection lighting. With the flip of a switch, lights will illuminate the engine, pump, battery, and radiator compartments to enhance visibility.

CAT DETECT PEOPLE DETECTION

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.













E-WALL SWING

E-WALL FORWARD

E-WALL CAB PROTECTION

E-WALL CEILING

E-WALL FLOOR

STANDARD 2D E-FENCE TECHNOLOGY

Whether you are using a bucket or hammer, standard 2D E-Fence automatically stops excavator motion using boundaries you set in the monitor for the entire working envelope – above, below, sides, and front. E-Fence protects equipment from damage and reduces fines related to zoning or underground utility damage. Automatic boundaries even help prevent operator fatigue by reducing overswinging and digging.

LOWER MAINTENANCE COSTS

UP TO 20%

With extended and more synchronized maintenance intervals, you get more done at a lower cost compared to the 320E. Consolidated filter locations make service faster. Hydraulic, air, and fuel tank filters have increased capacity and longer life.



- Consolidated filter locations to reduce service time.
- Oil filters with extended maintenance intervals, plus a higher dirt capacity hydraulic filter.
- Advanced air filter with double the dust holding capacity of the previous filter.
- + Fuel system filters synchronized for reduced downtime.



An advanced EH system (Electro-Hydraulic system) eliminates the need for a hydraulic pilot filter and replaces the hydraulic drain filter from the element type to the screen type to extend the maintenance interval.

The amount of hydraulic oil is also reduced by about 20%, contributing to the reduction of maintenance cost.



Five electric cooling fans are installed, and the optimum cooling is carried out by controlling the rotation speed according to the condition of the radiator, oil cooler, and aftercooler.

In addition, it has a reverse fan function, and dust and foreign matter clogged in the core of the cooling package are blown off by rotating the cooling fan in reverse, saving labor for cleaning the core.

Electric cooling fans also have the function of improving fuel consumption performance by reducing fan consumption horsepower and promoting warming by reducing the number of revolutions at the time of engine startup in cold weather.

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

TAMPING BUCKETS

SKELETON BUCKETS

DITCH CLEANING TILT BUCKETS









PIN GRABBER QUICK COUPLERS

HYDRAULIC HAMMERS

PREVENT HAMMER **WEAR AND TEAR**





Turn on through the monitor and the hammer will automatically stop after 30 seconds of continuous firing, preventing both tool and excavator from overworking.

RIPPERS





SHEARS



THUMBS



GRAPPLES

MULTI-PROCESSORS

TILTROTATOR







ATTACHMENT TRACKING MADE EASY

The Cat PL161 Attachment Locator is a Bluetooth device that makes finding your attachments and other gear quick and easy. The excavator's onboard Bluetooth reader or Cat App on your phone will locate the device automatically.



Save more time and energy with the available work tool recognition feature. A simple shake of the attached tool confirms its identity; it also ensures all the attachment settings are correct so you can get to work quickly and efficiently.

TECHNICAL SPECIFICATIONS

See <i>cat.com</i> for complete specifications.			
ENGINE			
Engine Model	Cat C4.4		
Engine Power – ISO 14396	129 kW 173 hp		
Net Power – ISO 9249	128 kW 172 hp		
Bore	105 mm 4 in		
Stroke	127 mm 5 in		
Displacement	4.4 L 269 in ³		
Net Power is tested per ISO 9249. Standards 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.			
Rated speed at 1,800 rpm.			
HYDRAULIC SYSTEM			
Main System – Maximum Flow – Implement	429 L/min 113 gal/min		
Marrian Dragarina Farriament Named	0F 000 I-D- F 07F:		

HYDRAULIC SYSTEM			
Main System – Maximum Flow – Implement	429 L/min 113 gal/min		
Maximum Pressure – Equipment – Normal	35 000 kPa 5,075 psi		
Maximum Pressure – Travel	34 300 kPa 4,974 psi		
Maximum Pressure – Swing	27 500 kPa 3,988 psi		
SWING MECHANISM			
Swing Speed	11.25 rpm		
Maximum Swing Torque	82 kN·m 60,300 lbf-ft		
MACHINE WEIGHT			
Operating Weight	20 900 kg 46,076 lb		
5.7 m (18'8") reach boom, 2.9 m (9'6") reach stick, GD 0.8 m³ (1.05 yd³) bucket, 600 mm (24") shoes, 3.7 t (8,150 lb) counterweight			

SERVICE REFILL CAPACITIES			
Fuel Tank	345 L	86.6 gal	
Cooling System	25 L	6.6 gal	
Engine Oil	15 L	4.0 gal	
Swing Drive (each)	12 L	3.2 gal	
Final Drive (each)	5 L	1.3 gal	
Hydraulic System (including tank)	234 L	61.8 gal	
Hydraulic Tank	115 L	30.4 gal	
DEF Tank	39 L	10.3 gal	

DIMENSIONS			
Boom	Reach 5.7 m (18'8")		
Stick	Reach 2.9 m (9'6")		
Bucket	0.8 m³ (1.05 yd³)		
Shipping Height (top of cab)	2960 mm	9'9"	
Handrail Height	2950 mm	9'9"	
Shipping Length	9520 mm	31'3"	
Tail Swing Radius	2830 mm	9'3"	
Track Length	4070 mm	13'4"	
Length to Center of Rollers	3270 mm	10'9"	
Ground Clearance	470 mm	1'7"	
Track Gauge	2200 mm	7'3"	
Transport Width – 600 mm (24") Shoes	2800 mm	9'2"	
Counterweight Clearance	1050 mm	3'5"	

WORKING RANGES AND FORCES			
Boom Reach 5.7 m (18'8")			
Stick	Reach 2.9 m (9'6")		
Bucket	0.8 m³ (1.05 yd³)		
Maximum Digging Depth	6620 mm 21'9"		
Maximum Reach at Ground Level	9760 mm 32'0"		
Maximum Cutting Height	9430 mm 30'11"		
Maximum Loading Height	6590 mm 21'7"		
Minimum Loading Height	2270 mm 7'5"		
Maximum Vertical Wall Digging Depth	5960 mm 19'7"		
Bucket Digging Force (ISO)	148 kN 33,245 lbf		
Stick Digging Force (ISO)	108 kN 24,286 lbf		

CAB FEATURES

FEATURE	DESCRIPTION	COMFORT	DELUXE
ROPS	Standard Sound Suppression	•	•
High-Resolution Monitor	203 mm (8 inch) Touchscreen	•	•
	254 mm (10 inch) Touchscreen with 360° view system	Х	0
Keyless Push-to-Start	Engine Control	•	•
Jog Dial, Shortcut Keys	Monitor Control	•	•
Air Conditioning	Automatic Bi-level	•	•
Suspension Seat with Seat Belt	Mechanical Adjustable	•	х
	Air Adjustable	х	•
	Heated	Х	•
Console	3 Fixed Heights	•	х
	Infinitely Adjustable	х	•
	Tilt-Up Left Side console	х	•
Bluetooth Integrated Radio	With USB Ports	•	•

STANDARD & OPTIONAL EQUIPMENT

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

САВ	STANDARD	OPTIONAL
ROPS, standard sound suppression	•	
Mechanically adjustable seat	•	
Air-adjustable seat with heat		•
High-resolution 203 mm (8 inch) LCD touchscreen monitor	•	
High-resolution 254 mm (10 inch) LCD touchscreen monitor with 360° view system		•
Cat Stick Steer		•
CAT TECHNOLOGY	STANDARD	OPTIONAL
Cat Product Link	•	
Cat Grade with 2D	•	
Cat Grade with Advanced 2D not available on SLR		•
Cat Grade with 3D not available on SLR		•
Cat Grade with Assist	•	
Cat Payload	•	
E-Fence	•	
Remote Flash capability	•	
Remote Troubleshoot capability	•	
ENGINE	STANDARD	OPTIONAL
Cat C4.4 twin turbo engine	•	
Auto engine speed control	•	
Auto engine idle shutdown	•	
46° C (115° F) ambient cooling capacity	•	
52° C (125° F) high-ambient cooling capacity		•
–32° C (–25° F) cold start capability	•	
Reversing electric cooling fans	•	

or details.		
HYDRAULIC SYSTEM	STANDARD	OPTIONAL
Auto warm up	•	
Auto two-speed travel	•	
Boom and stick drift reduction valve	•	
Hammer return filter circuit		•
Combined flow/high-pressure auxiliary circuit		•
Medium-pressure circuit		•
Quick coupler circuit for Cat Pin Grabber		•
BOOMS AND STICKS	STANDARD	OPTIONAL
5.7 m (18'8") reach boom, 2.9 m (9'6") stick	•	
5.7 m (18'8") HD reach boom, 2.9 m (9'6") HD stick		•
8.85 m (29'0") SLR boom, 6.28 m (20'7") SLR stick		•
UNDERCARRIAGE AND STRUCTURES	STANDARD	OPTIONAL
600 mm (24") triple grouser shoes	•	
700 mm (28") triple grouser shoes		•
790 mm (31") triple grouser shoes		•
Tie-down points on base frame	•	
3700 kg (8,150 lb) counterweight	•	
4200 kg (9,300 lb) counterweight for HD boom and stick		•
4700 kg (10,400 lb) counterweight for SLR boom and stick		•
SAFETY AND SECURITY	STANDARD	OPTIONAL
Shovel crane package		•
Rearview camera	•	
Right-hand mirror	•	
360° visibility		•
Ground-level engine shutoff switch	•	
Cat Command remote control		•
Inspection Lighting		•



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, refer to the Technical Specifications brochures available at www.cat.com or your Cat dealer.

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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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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www.cat.com www.caterpillar.com

AEXQ2232-04 Replaces AEXQ2232-03 Build Number: 07E

