

335

HYDRAULIC EXCAVATOR



Engine Power
ISO 14396
ISO 14396 (DIN)

205 kW (275 hp)
279 hp (metric)

Operating Weight

34 900 kg (77,000 lb)–36 300 kg (80,000 lb)

Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.



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 – so you put more money in your pocket.



THE CAT® 335

COMPACT RADIUS DESIGN

The **Cat 335** Hydraulic Excavator brings premium performance in a compact radius design. Get the industry's highest level of standard factory technology and a cab made for operator comfort. Lower fuel and maintenance costs help make your operation more productive and profitable.

An optional blade allows for faster jobsite cleaning and leveling. Float and stabilizer functionality added for increased versatility and lifting performance.



INCREASE FUEL EFFICIENCY UP TO 20%¹

New electro-hydraulics and hydraulic demand fan deliver more hydraulic power and productivity while maintaining fuel consumption. Using the adaptive smart mode will save you even more fuel without impacting productivity.

INCREASED PERFORMANCE²

Up to 45% productivity increase with standard technology, 15% higher digging force and 20% more hydraulic power, and a wider gauge that allows for bigger buckets and better side stability while containing weight.

LOWER MAINTENANCE COSTS UP TO 20%³

Extended and more synchronized maintenance intervals increase uptime and reduce costs compared to the 335F.

¹ Compared to the 335F and including Smart mode.

² Operator efficiency gains compared to traditional grading methods.

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



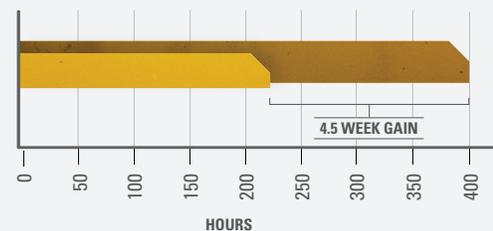
STANDARD CAT TECHNOLOGY

**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® TECHNOLOGY
220 hours/year, with standard Cat Grade



INCREASE EFFICIENCY UP TO 45% WITH CAT® TECHNOLOGY

STANDARD, SIMPLE-TO-USE TECHNOLOGIES INCLUDE:



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 offsets 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.



CAT PAYLOAD

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. Automated tracking helps manage production and lower cost. 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.



CAT GRADE WITH ASSIST

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

AVAILABLE OPTIONAL UPGRADES

Cat Grade with Advanced 2D and Cat Grade with 3D increase productivity and your profit potential. Cat Grade with Advanced 2D offers in-field design capability through an additional high-resolution touchscreen monitor. Cat Grade with 3D offers a choice of a single antenna global navigation satellite system (GNSS) for enhanced guidance or dual antenna GNSS for maximum grading efficiency. 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 onboard 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 335 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. Choose between comfort, deluxe, and premium cabs – all with automatic climate control.



TOUCHSCREEN MONITOR

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



SMART MODE

Smart mode (one of three power mode settings) automatically adjusts engine and hydraulic power based on application for the highest fuel efficiency – less power for tasks such as swinging and more power for digging. Need more lift during your shift? Turn on auto heavy lift and get 8% more power exactly when you need it for as long as you need it.



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. Adding an auxiliary relay allows 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.



KEYLESS PUSH START

The 335 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 or via an optional Bluetooth® key fob.



A QUIET, SAFE WORKSPACE
BUILDS OPERATOR CONFIDENCE

CAB HELPS KEEP YOU SAFE

The ISO-certified rollover protective structure (ROPS) cab is sound suppressed 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

Standard rearview and right-side-view cameras help keep operators aware of their surroundings at all times. An optional 360° visibility feature is also available.

EASY ACCESS, STORAGE, AND CONNECTIVITY

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

PROTECT YOU AND OTHERS



GROUND-LEVEL DAILY MAINTENANCE

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.

LIFT ASSIST

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.

CAT COMMAND REMOTE CONTROL

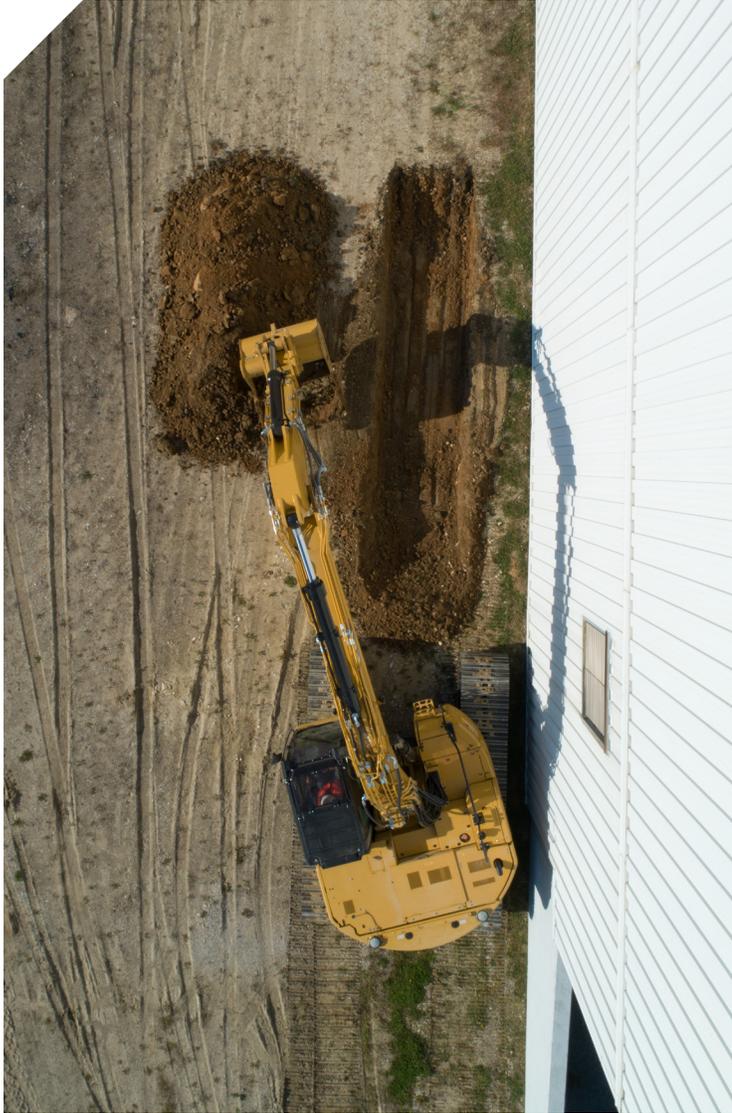
Enhance jobsite safety by adding Cat Command to your fleet. The remote control system comes with everything you need to operate outside of the cab. Command console lets you operate up to 400 meters (437 yards) away. Command station lets you work virtually anywhere.

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.

COMPACT RADIUS

SIZED RIGHT FOR TIGHT QUARTERS WORK



WORK WITH CONFIDENCE

The 335's compact radius design makes it ideal for working in space-restricted areas like road jobs with land closures and next to buildings or other structures you'd like to keep out of harm's way.

The 335 gives you maximum full upper frame turning radius, while providing solid lifting performance. With the tightest tail radius in the industry, the 335 maneuvers easily on the jobsite. The reduced full body 360° turning radius makes it ideally suited to work in tight areas, including a single traffic lane. Plus, the increased track gauge provides great over-the-side stability, so you can work confidently.

WORK WITH POWER

Unlike a standard radius machine, the 335's boom cylinders are positioned in a way that maximizes lifting performance and short turning radius.





With extended and more synchronized maintenance intervals, you get more done at a lower cost compared to the 335F. Consolidated filter locations make service faster. Hydraulic, air, and fuel tank filters have increased capacity and longer life.

KEY MAINTENANCE COST REDUCTIONS INCLUDE:

- + Consolidated filter locations to reduce service time.
- + Oil and fuel filters with extended maintenance intervals.
- + Advanced air filter with double the dust holding capacity of the previous filter.

SERVICE REMINDERS MADE EASY

Boost productivity with proactive service reminders. Our new 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.

**LOWER MAINTENANCE COSTS
SAVE UP TO**

20%

» WITH DOUBLE DUST HOLDING CAPACITY AIR FILTERS AND EXTENDED SERVICE INTERVALS

*SOURCE: INTERNAL NEXT GENERATION PRODUCT SUPPORT MAINTENANCE COST COMPARISON

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



QUICK COUPLERS



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 the 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.

GRAPPLES



TILTROTATOR



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.

SHEARS



HYDRAULIC HAMMERS



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.

TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

ENGINE		
Engine Model	Cat® C7.1	
Engine Power		
ISO 14396	205 kW	275 hp
ISO 14396 (DIN)	279 hp (metric)	
Net Power		
ISO 9249	203.7 kW	273 hp
ISO 9249 (DIN)	277 hp (metric)	
Bore	105 mm	4 in
Stroke	135 mm	5 in
Displacement	7.01 L	428 in ³
<ul style="list-style-type: none"> • 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. 		
SWING MECHANISM		
Swing Speed	10.8 rpm	
Maximum Swing Torque	107.7 kN-m	79,455 lbf-ft
WEIGHTS		
Operating Weight	36 200 kg	79,900 lb
Long undercarriage, Reach boom, R3.2 (10'6") stick, HD 1.54 m ³ (2.01 yd ³) bucket, 850 mm (33") triple grouser shoes, and 7.7 mt (16,980 lb) counterweight.		
Operating Weight	34 900 kg	77,000 lb
Long undercarriage, Reach boom, R3.2 (10'6") stick, HD 1.54 m ³ (2.01 yd ³) bucket, 600 mm (24") triple grouser shoes, 5.0 mt (11,202 lb) counterweight, and 3440 mm (11'3") blade.		
SERVICE REFILL CAPACITIES		
Fuel Tank	368 L	97.2 gal
Cooling System	13 L	3.3 gal
Engine Oil	25 L	6.6 gal
Swing Drive	11 L	2.9 gal
Final Drive (each)	7 L	1.8 gal
Hydraulic System (including tank)	350 L	92.5 gal
Hydraulic Tank	154 L	40.7 gal
Diesel Exhaust Fluid (DEF) Tank	26 L	7.0 gal
HYDRAULIC SYSTEM		
Main System - Maximum Flow - Implement	560 L/min (280x2 pumps)	148 gal/min (74x2 pumps)
Maximum Pressure - Equipment - Normal	35 000 kPa	5,075 psi
Maximum Pressure - Equipment - Lift Mode	38 000 kPa	5,510 psi
Maximum Pressure - Travel	35 000 kPa	5,075 psi
Maximum Pressure - Swing	28 832 kPa	4,181 psi

DIMENSIONS		
Boom	Reach 6.15 m (20'2")	
Stick	R3.2CB2 (10'6")	
Bucket	HD 1.54 m ³ (2.01 yd ³)	
Shipping Height (top of cab)	3270 mm	10'9"
Handrail Height	3420 mm	11'3"
Shipping Length	9830 mm	32'2"
Tail Swing Radius	1900 mm	6'3"
Counterweight Clearance	1170 mm	3'10"
Ground Clearance	480 mm	1'7"
Track Length	5030 mm	16'6"
Track Length (with blade)	5740 mm	18'10"
Length to Center of Rollers	4040 mm	13'3"
Track Gauge – Extended	2740 mm	9'0"
Transport Width – 600 mm (24") shoes	3340 mm	10'11"
Transport Width – 700 mm (28") shoes	3440 mm	11'3"
Transport Width – 850 mm (33") shoes	3590 mm	11'9"
Transport Width – 3440 mm (11'3") blade	3440 mm	11'3"
Transport Width – 3600 mm (11'10") blade	3600 mm	11'10"
WORKING RANGES AND FORCES		
Boom	Reach 6.15 m (20'2")	
Stick	R3.2CB2 (10'6")	
Bucket	HD 1.54 m ³ (2.01 yd ³)	
Maximum Digging Depth	6990 mm	22'11"
Maximum Reach at Ground Level	10 640 mm	34'11"
Maximum Cutting Height	11 150 mm	36'7"
Maximum Loading Height	7960 mm	26'1"
Minimum Loading Height	2910 mm	9'7"
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	6840 mm	22'5"
Maximum Vertical Wall Digging Depth	5790 mm	19'0"
Bucket Digging Force (ISO)	207 kN	46,482 lbf
Stick Digging Force (ISO)	144 kN	32,319 lbf
AIR CONDITIONING SYSTEM		
The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.9 kg of refrigerant which has a CO ₂ equivalent of 1.287 metric tonnes.		

STANDARD & OPTIONAL EQUIPMENT

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

CAB	STANDARD	OPTIONAL
Rollover protective structure (ROPS)	•	
Air-adjustable seat with heat (deluxe only)	•	
Auto-adjustable seat with heat and air ventilation (premium only)	•	
High-resolution 254 mm (10 inch) LCD touchscreen monitor	•	
Cat® Stick Steer		•
Auxiliary relay		•
CAT TECHNOLOGIES	STANDARD	OPTIONAL
Cat Product Link	•	
Remote Flash	•	
Remote Troubleshoot	•	
Cat Grade with 2D	•	
Cat Grade with Advanced 2D		•
Cat Grade with 3D single GNSS		•
Cat Grade with 3D dual GNSS		•
Cat Assist	•	
Cat Payload	•	
2D E-Fence	•	
ENGINE	STANDARD	OPTIONAL
Cat C7.1 twin turbo diesel engine	•	
Three selectable modes: Power, Smart, Eco	•	
52°C (126°F) high-ambient cooling capacity without derate	•	
-18°C (0°F) cold start capability	•	
-32°C (-25°F) cold start capability		• ¹
Sealed double element air filter with integrated precleaner	•	
1 x 145 Amp dual alternator	•	
Electric fuel priming pump	•	
Hydraulic and reversible demand fan	•	
Two-stage fuel filtration system with water separator and indicator	•	
SERVICE AND MAINTENANCE	STANDARD	OPTIONAL
Scheduled Oil Sampling (S•O•S SM) sampling ports	•	
Grouped location for engine oil and fuel filters	•	
Integrated vehicle health management system		•

¹All regions except Taiwan

²Europe only

³For use with blade only

⁴For use without blade only

⁵All regions except North America

BOOMS, STICKS, AND LINKAGES	STANDARD	OPTIONAL
6.15 m (20'2") Reach boom	•	
3.2 m (10'6") Reach stick		•
3.75 m (12'4") Reach stick		•
Bucket linkage, CB2 family with lifting eye	•	
HYDRAULIC SYSTEM	STANDARD	OPTIONAL
SmartBoom™	• ²	
Electric main control valve	•	
Boom and stick regeneration circuits	•	
Auto warm up	•	
Auto two-speed travel	•	
Boom and stick drift reduction valve	•	
Element type main hydraulic filter	•	
UNDERCARRIAGE AND STRUCTURES	STANDARD	OPTIONAL
Base frame with standard track rollers and HD carrier rollers	•	
Grease lubricated track	•	
ISO 15818 tie down points on base frame	•	
Two-piece segmented track guiding guard	•	
Full length track guiding guard		•
5.0 mt (11,020 lb) counterweight		• ³
7.7 mt (16,980 lb) counterweight		• ⁴
600 mm (24") triple grouser track shoes		•
700 mm (28") triple grouser track shoes		• ⁵
850 mm (33") triple grouser track shoes		•
3440 mm (11'3") blade		•
3600 mm (11'10") blade		•
ELECTRICAL SYSTEM	STANDARD	OPTIONAL
Maintenance-free batteries	•	
LED chassis light, left-hand/right-hand boom lights, cab lights – 1800 lumens	•	
Centralized electrical disconnect switch	•	
Programmable time delay working lights after engine shutdown	•	
SAFETY AND SECURITY	STANDARD	OPTIONAL
Cat Detect People Detection		•
Rear- and right-side-view cameras	•	
360° visibility		•
ISO 2867 right-hand handrail and hand hold	•	
Service platform with anti-skid plate and countersunk bolts	•	
Hydraulic lockout lever neutralizes all controls	•	
Ground level-accessible secondary engine shutoff switch in cab	•	
Signaling/warning horn	•	
Swing alarm		•
Cat Command remote control		•

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 and additional regional offerings, refer to the Technical Specifications brochure 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

AEXQ2943-03
Replaces AEXQ2943-02
Build Number: 07C
(Aus-NZ, Europe,
Hong Kong, N Am, Taiwan)

