

# 325

## HYDRAULIC EXCAVATOR



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<b>Engine Power</b>	
ISO 14396	129.4 kW (174 hp)
ISO 14396 (DIN)	176 hp (metric)
<b>Operating Weight</b>	27 600 kg (60,800 lb)

Meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 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® 325

COMPACT RADIUS DESIGN

The **Cat 325** 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 provide increased versatility and lifting performance.



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## REDUCE FUEL CONSUMPTION UP TO 25%<sup>2</sup>

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

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## INCREASED PERFORMANCE

Up to 45%<sup>1</sup> productivity increase with standard technology. Optional heavy counterweight with up to 19% more lift. NEW blade with float and stabilizer function for versatility and lifting performance.

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## LOWER MAINTENANCE COSTS UP TO 25%<sup>3</sup>

Extended and more synchronized maintenance intervals increase uptime and reduce costs compared to the 325F.

<sup>1</sup> Operator efficiency gains compared to traditional grading methods.

<sup>2</sup> Compared to the 325F.

<sup>3</sup> Cost reduction based on 12,000 hours of operation.



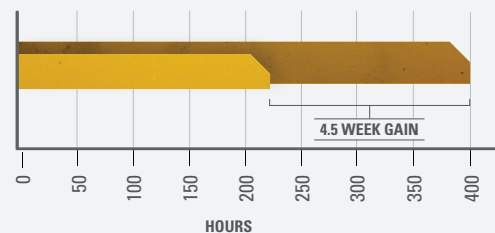
# STANDARD CAT TECHNOLOGY

**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 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.



#### 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. 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.

### 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 325 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 SETTINGS

Smart mode automatically adjusts power to meet work demand with maximum fuel efficiency.



## CUSTOMIZABLE JOYSTICKS

Personalize joystick pattern and response through the monitor; use operator ID to save and restore those settings at login. 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 325 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**

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### **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.

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### **ALL-AROUND VISIBILITY**

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

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### **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**

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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.

### **CAT COMMAND REMOTE CONTROL**

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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**

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

The 325 gives you maximum full upper frame turning radius, while providing solid lifting performance. The reduced full body 360° turning radius makes it ideally suited to work in tight areas, including a single traffic lane.

### WORK WITH POWER

Unlike a standard radius machine, the 325's boom cylinders are positioned in a way that maximizes lifting performance and short turning radius.





## LOWER MAINTENANCE COSTS UP TO 25%

With extended and more synchronized maintenance intervals, you get more done at a lower cost compared to the 325F. 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

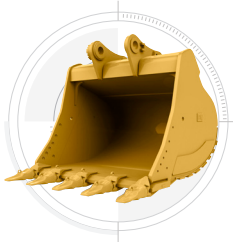
Boost productivity with proactive service reminders. Our new integrated vehicle health management system alerts the operator with step-by-step service guidance, along with parts needed, so you don't experience any unnecessary downtime.



# 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



## GRAPPLES



## 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.

## SECONDARY PULVERIZERS



## 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.

## VIBRATORY PLATE COMPACTORS



## 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](http://cat.com) for complete specifications.

ENGINE	
Engine Model	Cat® C4.4
Engine Power	
ISO 14396	129.4 kW 174 hp
ISO 14396 (DIN)	176 hp (metric)
Net Power	
ISO 9249	128.5 kW 172 hp
ISO 9249 (DIN)	175 hp (metric)
Bore	105 mm 4 in
Stroke	127 mm 5 in
Displacement	4.40 L 269 in³
<ul style="list-style-type: none"> <li>• Advertised power is tested per the specified standard in effect at the time of manufacture.</li> <li>• Net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system and alternator.</li> <li>• Engine speed at 2,200 rpm.</li> </ul>	
HYDRAULIC SYSTEM	
Main System – Maximum Flow – Implement	429 L/min (× 2 pumps) 113 gal/min (× 2 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	34 000 kPa 4,930 psi
Maximum Pressure – Swing	27 500 kPa 3,988 psi
SWING MECHANISM	
Swing Speed	11.12 rpm
Maximum Swing Torque	82 kN·m 60,300 lbf·ft
MACHINE WEIGHTS	
Operating Weight	22 400 kg 49,400 lb
Standard undercarriage, Reach boom, R2.9 m (9'6") stick, HD 0.9 m³ (1.18 yd³) bucket, 600 mm (24") triple grouser shoes, and 4900 kg (10,800 lb) counterweight.	
Operating Weight	27 600 kg 60,800 lb
Long undercarriage, Reach boom, R2.9 m (9'6") stick, HD 0.9 m³ (1.18 yd³) bucket, 600 mm (24") HD triple grouser shoes, and 8300 kg (18,300 lb) counterweight.	
SERVICE REFILL CAPACITIES	
Fuel Tank	313 L 82.7 gal
Cooling System	11.8 L 3.1 gal
Engine Oil	15 L 4.0 gal
Swing Drive	12 L 3.2 gal
Final Drive (each)	4.5 L 1.2 gal
Hydraulic System (including tank)	230 L 60.8 gal
Hydraulic Tank	111 L 29.3 gal
Diesel Exhaust Fluid (DEF) Tank	26 L 6.9 gal

DIMENSIONS	
<b>Boom</b>	<b>Reach 5.7 m (18'8")</b>
<b>Stick</b>	<b>Reach 2.9 m (9'6")</b>
<b>Bucket</b>	<b>HD 0.9 m³ (1.18 yd³)</b>
<b>Undercarriage</b>	<b>Long</b>
Shipping Height (top of cab)	3080 mm 10'1"
Handrail Height	3190 mm 10'5"
Shipping Length	8870 mm 29'1"
Shipping Length (with blade)	9570 mm 31'5"
Tail Swing Radius	1810 mm 5'11"
Counterweight Clearance	980 mm 3'3"
Ground Clearance	440 mm 1'5"
Track Length	4460 mm 14'7"
Length to Center of Rollers	3650 mm 12'0"
Track Gauge	2380 mm 7'10"
Transport Width – 600 mm (24") shoes	2980 mm 9'9"
Transport Width – 700 mm (28") shoes	3080 mm 10'1"
Transport Width – 790 mm (31") shoes	3170 mm 10'5"
WORKING RANGES AND FORCES	
<b>Boom</b>	<b>Reach 5.7 m (18'8")</b>
<b>Stick</b>	<b>Reach 2.9 m (9'6")</b>
<b>Bucket</b>	<b>HD 0.9 m³ (1.18 yd³)</b>
<b>Undercarriage</b>	<b>Long</b>
Maximum Digging Depth	6600 mm 21'8"
Maximum Reach at Ground Level	9780 mm 32'1"
Maximum Cutting Height	10 930 mm 35'10"
Maximum Loading Height	8000 mm 26'3"
Minimum Loading Height	3080 mm 10'1"
Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	6420 mm 21'1"
Maximum Vertical Wall Digging Depth	5820 mm 19'1"
Bucket Digging Force (ISO)	148 kN 33,270 lbf
Stick Digging Force (ISO)	103 kN 23,160 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 0.8 kg of refrigerant which has a CO <sub>2</sub> equivalent of 1.144 metric tonnes.	

# STANDARD & OPTIONAL EQUIPMENT

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

CAB	STANDARD	OPTIONAL
Comfort cab: rollover protective structure (ROPS), mechanical seat suspension		•
Deluxe cab: ROPS, air-adjustable seat with heat		•
Premium cab: ROPS, advanced sound suppression, auto-adjustable seat with heat and air ventilation		•
High-resolution 203 mm (8 in) LCD touchscreen monitor	•	
High-resolution 254 mm (10 in) 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
Three selectable modes: Power, Smart, Eco	•	
One-touch low idle with automatic engine speed control	•	
Auto engine idle shutdown	•	
50° C (122° F) high-ambient cooling capacity without derate	•	
-18° C (0° F) cold start capability	•	
-32° C (-25° F) cold start capability		•
Double element air filter with integrated precleaner	•	
Reversing electric cooling fans	•	
HYDRAULIC SYSTEM	STANDARD	OPTIONAL
Boom and stick regeneration circuits	•	
Auto warm up	•	
Auto two-speed travel	•	
Boom and stick drift reduction valve	•	
Boom and stick lowering check valves		•
Hammer return filter circuit		•
Combined tool control (two pump, one/two way high-pressure flow)		•
Medium-pressure circuit		•
Quick coupler circuit		•

BOOMS AND STICKS	STANDARD	OPTIONAL
5.7 (18'8") Reach boom		•
5.7 (18'8") HD Reach boom		•
2.9 m (9'6") Reach stick		•
2.9 m (9'6") HD Reach stick		•
UNDERCARRIAGE AND STRUCTURES	STANDARD	OPTIONAL
Standard undercarriage		•
Long undercarriage		•
600 mm (24") triple grouser shoes		•
600 mm (24") HD triple grouser shoes		•
700 mm (28") triple grouser shoes		•
700 mm (28") HD triple grouser shoes		•
790 mm (31") triple grouser shoes		•
790 mm (31") HD triple grouser shoes		•
Tie-down points on base frame	•	
4.9 mt (10,800 lb) counterweight	•	
8.3 mt (18,300 lb) counterweight		•
2980 mm (9'9") blade		•
3170 mm (10'5") blade		•
ELECTRICAL SYSTEM	STANDARD	OPTIONAL
Two 1,000 CCA maintenance free batteries	•	
Programmable time-delay LED working lights	•	
LED chassis light, left-hand/right-hand boom lights, cab lights	•	
360° lighting		•
SERVICE AND MAINTENANCE	STANDARD	OPTIONAL
Scheduled Oil Sampling (S-O-S <sup>SM</sup> ) ports	•	
Ground-level and platform-level engine oil dipsticks	•	
Electric refueling pump with auto shutoff		•
Integrated vehicle health management system		•
SAFETY AND SECURITY	STANDARD	OPTIONAL
Cat Detect People Detection		•
Rearview camera	•	
Right-side-view camera	•	
360° visibility		•
Ground-level engine shutoff switch	•	
Swing alarm		•
Right-hand handrail and hand hold	•	
Signaling/warning horn	•	
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](http://www.cat.com) or your Cat dealer.



オフロード法2014年  
基準適合

For more complete information on Cat products, dealer services and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com).

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[www.cat.com](http://www.cat.com) [www.caterpillar.com](http://www.caterpillar.com)

AEXQ2789-04  
Replaces AEXQ2789-03  
Build Number: 07D  
(Japan)

