

#### **NEXT GENERATION EXCAVATORS**

The new line of Cat® Excavators was designed with a new approach to equipment families that gives you:

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

Ready to help you make your business stronger, Cat Excavators give you new ways to get the most work done at the lowest cost—so you put more money in your pocket.



# THE NEW 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 new cab focused on operator comfort and productivity, plus lower fuel and maintenance costs, the 320 will set a new pace for productivity and profit in your operation.



## **INCREASE EFFICIENCY UP TO 45%**<sup>1</sup>

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

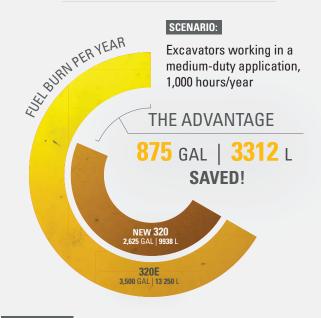
### REDUCE FUEL CONSUMPTION **UP TO 25%**<sup>2</sup>

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

## LOWER MAINTENANCE COSTS **UP TO 15%**<sup>3</sup>

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

# **FUEL EFFICIENCY SAVINGS ADD UP**



#### CALCULATION:

#### 320E:

#### **NEW 320:**

 $3.5 \text{ gal/hr} \times 1,000 \text{ hr/yr} = 3,500 \text{ gal/yr}$  (3.5 gal/hr x 75%) x 1,000 hr/yr = 2,625 gal/yr 13.25 L/HR x 1000 HR/YR = 13 250 L/YR (13.25 L/HR x 75%) x 1000 HR/YR = 9938 L/YR

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

<sup>&</sup>lt;sup>2</sup> Compared to the 320E.

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



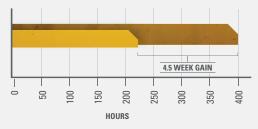
# STANDARD CAT CONNECT TECHNOLOGY

# GETS JOBS DONE FASTER WITH LESS REWORK

**Onboard Cat Connect 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?





#### PREVIOUS YEAR:

USING TRADITIONAL GRADING METHODS

400 hours/year, grading with stakes and checkers

#### **CURRENT YEAR:**

USING NEW CAT 320 WITH CAT CONNECT TECHNOLOGY

220 hours/year, with standard Cat Grade



## 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. No grade checkers are needed so the work area is safer.



#### STANDARD CAT PAYLOAD

Cat Payload technology delivers precise load targets with on-the-go weighing, which helps prevent over/under-loading and maximizes efficiency. Automated tracking helps manage production and lower cost.



#### STANDARD 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 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 10-inch (254 mm) high-resolution touchscreen monitor. Grade with 3D adds GPS and GLONASS positioning for pinpoint accuracy.

# REAL-TIME INFORMATION FROM CAT LINK

#### TAKES THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

Cat Link hardware (Product Link™) and software (VisionLink®) work together to put equipment information at your fingertips. Get real-time access to information on every machine in your fleet on any jobsite—no matter the size of the operation or the brands of equipment you run.



#### PRODUCT LINK™

Track asset location, hours, fuel usage, diagnostic codes, idle time and more to improve your productivity and lower your operating costs. Cellular connectivity comes standard. Satellite connectivity is available.



#### VISIONLINK®

Using the online VisionLink interface, you can see a common, collective view of your information, making it easier to manage a mixed fleet and make informed decisions about your equipment.

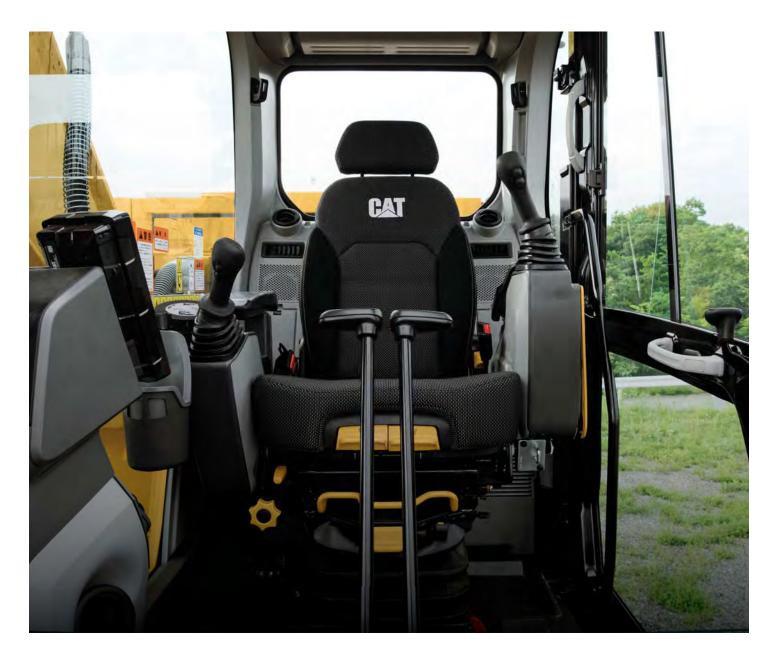


#### MY.CAT.COM

You can also access Caterpillar and Cat dealer information at my.cat.com. My.cat.com gives you access to PM schedules, parts and service records, warranty coverage and more—with a single login. Plus, you can link directly to your VisionLink account.

# NEW 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.



#### **NEW SEAT AND JOYSTICK CONSOLE REDUCE FATIGUE**

Comfort and efficiency of movement keep operators productive and alert all shift long. The new 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 8-inch/203 mm (or optional 10-inch/254 mm) touchscreen monitor. It offers 42 languages and is easy to reach from the seat—no twisting or turning.



# NEW SMART MODE

The new Smart Mode (one of three power mode settings) automatically adjusts engine and hydraulic power for the highest fuel efficiency—less power for tasks such as swinging and more power for digging.



# CUSTOMIZABLE JOYSTICKS

Joystick function can be customized through the monitor. Joystick pattern as well as response can be set to match operator preference. All preferences are saved with the operator ID and restored at log in.



# 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 or smartphone app.



# 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.

#### **KEEP YOUR EXCAVATOR SECURE**

Use your PIN code on the monitor, the optional Bluetooth key fob or your smartphone to enable the push-button starting feature.















**E-WALL SWING** 

**E-WALL FORWARD** 

**E-WALL CAB PROTECTION** 

E-WALL CEILING

**E-WALL FLOOR** 

#### STANDARD 2D E-FENCE TECHNOLOGY

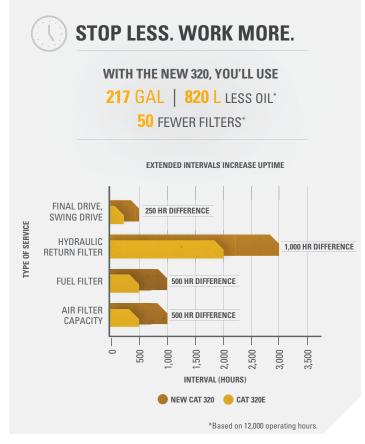
The standard 2D E-fence feature automatically stops excavator motion using boundaries you set in the monitor for the entire working envelope—above, below, sides and front. E-fence features protect equipment from damage and reduce fines related to zoning or underground utility damage. Automatic boundaries even help prevent operator fatigue by reducing over-swinging and over-digging.



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.

#### **KEY MAINTENANCE COST REDUCTIONS INCLUDE:**

- + Consolidated filter locations to reduce service time.
- Multiple oil filters with extended maintenance intervals, plus a new higher dirt capacity hydraulic filter.
- + The new Cat air filter design results in a 100% increase in service life compared to our previous filter.
- Maintenance intervals for the fuel system filters are synchronized for reduced 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** 



**HYDRAULIC HAMMERS** 



**MULTI-PROCESSORS** 



**QUICK COUPLERS** 



**RAKES** 



RIPPERS



**SECONDARY PULVERIZERS** 



**SHEARS** 



THUMBS



VIBRATORY PLATE COMPACTORS



# **TECHNICAL SPECIFICATIONS**

See cat.com for complete specifications.

ENGINE	
Engine Model	Cat C4.4 ACER
Gross Power – ISO 14396/SAE J1995	122 kW 164 hբ
Net Power – ISO 9249/SAE J1349	121 kW 162 hլ
Engine RPM	
Operation	1,650 rpn
Travel	1,800 rpn
Bore	105 mm 4 i
Stroke	127 mm 5 i
Displacement	4.4 L 269 in
HYDRAULIC SY	STEM
Main System – Maximum Flow (Implement)	429 L/min 113 gal/mii
Maximum Pressure – Equipment – Normal	35 000 kPa 5,075 psi
Maximum Pressure – Travel	34 300 kPa 4,974 psi
Maximum Pressure – Swing	26 800 kPa 3,886 psi
MACHINE WE	IGHT
Operating Weight	22 700 kg 50,100 l
5.7 m (18'8") reach boom, 2.9 m (9'6") reach bucket, 600 mm (24") shoes, 3.7 mt (8,150 lb	
SERVICE REFILL CA	PACITIES
Fuel Tank	364 L 96.2 ga
Cooling System	25 L 6.6 ga
Engine Oil	15 L 4.0 ga
Swing Drive (each)	5 L 1.3 ga
Final Drive (each)	5 L 1.3 ga
Hydraulic System (including tank)	218 L 57.6 ga
Hydraulic Tank	115 L 30.4 ga
DEF Tank	30 L 7.9 ga

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 9'8"			
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)			
Bucket Maximum Digging Depth	<b>0.8 m³ (1.05 yd³)</b> 6620 mm 21'9"			
240.00	, , ,			
Maximum Digging Depth	6620 mm 21'9"			
Maximum Digging Depth Maximum Reach at Ground Level	6620 mm 21'9" 9760 mm 32'0"			
Maximum Digging Depth  Maximum Reach at Ground Level  Maximum Cutting Height	6620 mm 21'9" 9760 mm 32'0" 9430 mm 30'11"			
Maximum Digging Depth Maximum Reach at Ground Level Maximum Cutting Height Maximum Loading Height	6620 mm 21'9" 9760 mm 32'0" 9430 mm 30'11" 6590 mm 21'7"			
Maximum Digging Depth Maximum Reach at Ground Level Maximum Cutting Height Maximum Loading Height Minimum Loading Height	6620 mm 21'9" 9760 mm 32'0" 9430 mm 30'11" 6590 mm 21'7" 2270 mm 7'5"			
Maximum Digging Depth Maximum Reach at Ground Level Maximum Cutting Height Maximum Loading Height Minimum Loading Height Maximum Vertical Wall Digging Depth	6620 mm 21'9" 9760 mm 32'0" 9430 mm 30'11" 6590 mm 21'7" 2270 mm 7'5" 5960 mm 19'7"			
Maximum Digging Depth Maximum Reach at Ground Level Maximum Cutting Height Maximum Loading Height Minimum Loading Height Maximum Vertical Wall Digging Depth Bucket Digging Force (ISO)	6620 mm 21'9" 9760 mm 32'0" 9430 mm 30'11" 6590 mm 21'7" 2270 mm 7'5" 5960 mm 19'7" 148 kN 33,270 lbf			

# **CAB FEATURES**

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

●- standard ○- optional x - not available

## **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		•
CAT CONNECT 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	•	
ENGINE	STANDARD	OPTIONAL
ENGINE Cat C4.4 twin turbo engine	STANDARD •	OPTIONAL
	STANDARD  •	OPTIONAL
Cat C4.4 twin turbo engine	STANDARD  • • •	OPTIONAL
Cat C4.4 twin turbo engine Auto engine idle shutdown	STANDARD  • • •	OPTIONAL •
Cat C4.4 twin turbo engine Auto engine idle shutdown 46° C (115° F) ambient cooling capacity	STANDARD  • • • •	OPTIONAL
Cat C4.4 twin turbo engine Auto engine idle shutdown 46° C (115° F) ambient cooling capacity 52° C (125° F) high-ambient cooling capacity	STANDARD  • • • • • •	OPTIONAL •
Cat C4.4 twin turbo engine 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	STANDARD	OPTIONAL •
Cat C4.4 twin turbo engine 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	STANDARD	OPTIONAL OPTIONAL
Cat C4.4 twin turbo engine 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	•	•
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Cat C4.4 twin turbo engine 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  HYDRAULIC SYSTEM  Auto warm up  Auto two-speed travel	STANDARD	•
Cat C4.4 twin turbo engine  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  HYDRAULIC SYSTEM  Auto warm up  Auto two-speed travel  Boom and stick drift reduction valve	STANDARD	•
Cat C4.4 twin turbo engine  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  HYDRAULIC SYSTEM  Auto warm up  Auto two-speed travel  Boom and stick drift reduction valve  Hammer return filter circuit  Combined flow/high-pressure	STANDARD	•

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	•	

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 for the 320 GC, 320 and 323 models available at www.cat.com or your Cat dealer.



# **BUILT FOR IT.**

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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AEXQ2335

