

# 350

## HYDRAULIC EXCAVATOR



---

**Engine Power (ISO 14396:2002)**  
**Operating Weight**

309 kW (414 hp)  
48 100 kg (106,000 lb)

Cat® C9.3B engine meets China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.



## NEXT GENERATION EXCAVATORS

Offer you more choices than ever for your business:

- + MORE MODELS
- + MORE FUEL EFFICIENCY
- + MORE PRICE POINTS

Cat Next Generation Excavators give you new ways to get more work done at the lowest cost so you can keep more of your hard-earned money.



# THE NEW CAT<sup>®</sup> 350

RELIABLE. EFFICIENT. PRODUCTIVE.

The Cat 350 is reliable, more efficient, and up to 15% more productive than our popular and proven 45-ton model. Its enhanced filters and extended service intervals ensure you'll get more uptime for class-leading performance.



---

## INCREASE PRODUCTION BY UP TO 15%<sup>1</sup>

With buckets up to 3.2 m<sup>3</sup> powered by the 350's increased digging force and swing torque, you will be more productive and profitable.

---

## WORK SMART. SAVE MONEY.

Two power modes help you manage fuel consumption for your specific applications: Power mode and the new Smart mode.

Power mode delivers maximum productivity in high-demand applications like truck loading and trenching.

Smart mode automatically matches engine speed and hydraulic power to demand for the highest fuel efficiency in any application.

Use Operator ID and the excavator will remember your mode preference.



<sup>1</sup> Compared to 345 GC

# COUNT ON LEGENDARY QUALITY AND RELIABILITY



You can trust Caterpillar's time-proven engineering and manufacturing knowhow for excellent reliability and durability.

- + BOOM, STICK, AND BUCKET LINKAGES ARE BUILT TO WITHSTAND TYPICAL 50-TON WORK DEMAND.
- + AUTOMATIC HYDRAULIC OIL WARMUP MAKES WORK MORE EFFICIENT AND HELPS PREVENT PREMATURE WEAR OF COMPONENTS SO YOU GET LONGER SERVICE LIFE.
- + CAT UNDERCARRIAGE COMES WITH TRACK PINS AND BUSHINGS GREASE SEALED TO ENHANCE PERFORMANCE AND SERVICE LIFE.
- + TAKE ON HOT AND COLD WEATHER WITH STANDARD 52°C HIGH-AMBIENT COOLING CAPABILITY AND -18°C COLD START CAPABILITY.



# LOW

## MAINTENANCE COSTS

With extended maintenance intervals, you get more done at a lower cost compared to the 349D2 Tier 3 excavator.

### KEY MAINTENANCE COST REDUCTIONS INCLUDE:

- + CONSOLIDATED FILTER LOCATIONS TO REDUCE SERVICE TIME.
- + NEW HYDRAULIC FILTER WITH HIGHER DIRT HOLDING CAPACITY.
- + NEW CAT AIR FILTER WITH DOUBLE THE DUST HOLDING CAPACITY OF THE PREVIOUS FILTER.

MAINTENANCE INTERVAL IMPROVEMENTS	350	D2 SERIES
	Hours	Hours
Replace Hydraulic System Return Filter	Every 3,000	Every 2,000
Replace Hydraulic System Pilot Filter	No Pilot Filter Needed	Every 1,000
Replace Fuel Tank Cap Filter	Every 2,000	Every 1,000
Lube Swing Bearing	Every 500	Every 250

# CAB TAKES THE HARD OUT OF WORK

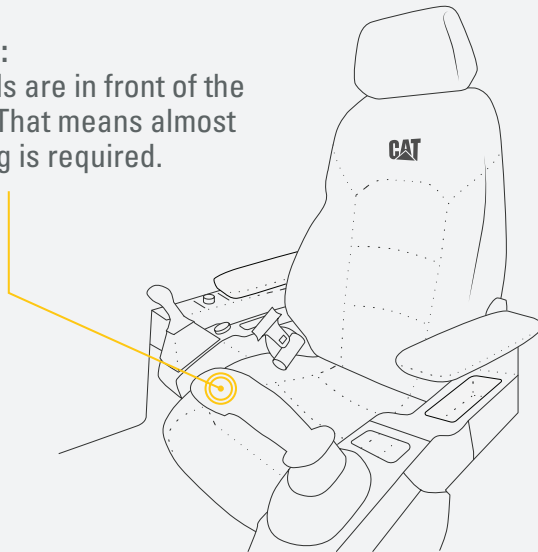
Sites where excavators typically work are rugged and challenging. The 350 cab helps protect from fatigue, stresses, sounds, and temperatures of the job.

## WE'VE GOT YOUR BACK.

**BACK PAIN IS ONE OF THE MOST COMMON REASONS PEOPLE MISS WORK.\***

### NEW CAB:

All controls are in front of the operator. That means almost no twisting is required.



\*SOURCE: [HTTPS://WWW.NINDS.NIH.GOV/DISORDERS/PATIENT-CAREGIVER-EDUCATION/FACT-SHEETS/LOW-BACK-PAIN-FACT-SHEET](https://www.ninds.nih.gov/disorders/patient-caregiver-education/fact-sheets/low-back-pain-fact-sheet)



## SMART DESIGN

Operator ID remembers your preferred settings for power mode, joystick pattern, and joystick response. Just plug in your password and go to work. Seat adjustments, touchscreen monitor, and controls are conveniently located to reduce reaching and twisting.

## ALL-AROUND VISIBILITY

Large windows at the front, sides, and rear give excellent visibility in all directions from the operator seat. Narrow front cab pillars allow a wider field of view to the front. Plus, with the standard rearview camera, operators will always be aware of what's surrounding the excavator.

## ACCESS, CONNECTIVITY, AND STORAGE

The available AM/FM radio includes a USB and auxiliary port for connecting and charging devices; a 24V DC outlet makes phone charging even faster. Storage space in front of the controls can hold wide cell phones.



## TOUCHSCREEN MONITOR

Most machine settings can be controlled through the high-resolution touchscreen monitor. It offers 42 languages and is easy to reach from the seat – no twisting or turning to reach switches. A handy jog dial control and shortcut keys are also ergonomically positioned on the right console.



## SEAT AND CONSOLE

Efficiency of movement is critical to keeping operators productive and alert all shift long. The 350 seat is wide and adjustable so operators of any size can work comfortably.



## 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 Operator ID and restored at login.



## KEYLESS PUSH START

The 350 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.







# CAT LINK TECHNOLOGY

## TAKES THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

---

Cat Link 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. 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).



# SAFETY FEATURES

## LOOK OUT FOR YOUR PEOPLE AND YOUR EQUIPMENT

Grab bars, serrated steps, and anti-skid plating make getting up and down the machine safer. Plus most routine maintenance can be done at ground level.

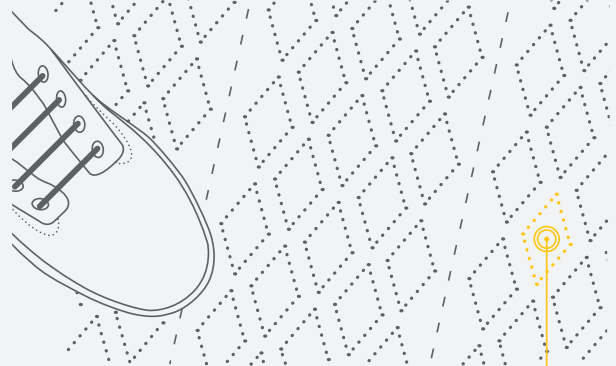
### KEEP YOUR EXCAVATOR SECURE

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

## 1,148 WAYS TO STAY SAFE.

FACT:

**SLIPPING** IS ONE OF THE BIGGEST CONTRIBUTORS TO WORKPLACE INJURIES.\*



### OUR ANTI-SKID PLATES FEATURE

**1,000+** INDIVIDUAL PERFORATIONS FOR BETTER TRACTION

\*SOURCE: [HTTPS://WWW.OSHA.GOV/DTE/GRANT\\_MATERIALS/FY07/SH-16625-07/SLIPSTRIPSFALLS.PPT](https://www.osha.gov/dte/grant_materials/fy07/sh-16625-07/slipstripsfalls.ppt)

INCREASE YOUR PRODUCTIVITY AND PROFIT

# WITH CAT ATTACHMENTS

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

## BUCKETS



### MAKE EVERY PASS COUNT

Did you know that most fuel is burned during digging? The right Cat bucket tailored to your specific application can deliver up to 15% more efficiency with better penetration and loading.

## HYDRAULIC HAMMERS



### BREAK BIG ROCKS FAST

The 350 can handle hammers up to 200 mms in size, which will help you make quick work of big rocks.

When you buy Cat equipment, you're getting so much more than the machine. You're also getting the support of a best-in-class dealer network backed by a range of flexible solutions, technology, tools, and more. It's all about support that's built around your success.

# GET MORE THAN A MACHINE



- + CUSTOMER VALUE AGREEMENTS (CVA)
- + COST-SAVING SERVICE AND REPAIR OPTIONS
- + QUALITY PARTS AND PRECISION COMPONENTS
- + FINANCING SOLUTIONS
- + RENTAL AND USED EQUIPMENT

## **SO WHAT IS A CAT CUSTOMER VALUE AGREEMENT?**

A Cat Customer Value Agreement (CVA) starts with hassle-free maintenance featuring genuine Cat parts right on schedule. Security of expert dealer support through an Equipment Protection Plan (EPP) can be included to minimize surprise costs on covered repairs. Equipment Health Management provides you with machine alerts and information as well as inspections and fluid health monitoring to give you more peace of mind. Hassle-free ownership simply means all elements of your CVA are part of one agreement that can be included in your monthly machine payment.

# TECHNICAL SPECIFICATIONS

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

ENGINE		
Engine Model	C9.3B	
Net Power – ISO 9249:2007	307 kW	412 hp
Engine Power – ISO 14396:2002	309 kW	414 hp
Bore	115 mm	5 in
Stroke	149 mm	6 in
Displacement	9.3 L	568 in <sup>3</sup>

- Net power available at the flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator.
- Max engine working speed at 1,800 rpm.
- Net power – ISO 9249 – 277 kW (371 hp) – engine speed at 2,200 rpm.
- Engine power – ISO 14396 – 280 kW (375 hp) – engine speed at 2,200 rpm.

HYDRAULIC SYSTEM		
Main System – Maximum Flow – Implement	779 L/min (389 × 2 pumps)	206 gal/min (103 × 2 pumps)
Maximum Pressure – Equipment – Implement	35 000 kPa	5,076 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	25 700 kPa	3,727 psi

SWING MECHANISM		
Swing Speed	8.44 rpm	
Maximum Swing Torque	187 kN·m	137,743 lbf·ft

WEIGHTS		
Operating Weight	48 100 kg	106,000 lb
• Mass boom, M3.0UB (9'10") stick, SD 3.2 m <sup>3</sup> (4.20 yd <sup>3</sup> ) bucket, and 600 mm (24") double grouser shoes, Long Undercarriage		

SERVICE REFILL CAPACITIES		
Fuel Tank	680 L	179.6 gal
Cooling System	48 L	12.7 gal
Engine Oil (with filter)	32 L	8.5 gal
Swing Drive	11 L	2.8 gal
Final Drive (each)	12 L	3.2 gal
Hydraulic System (including tank)	550 L	145.3 gal
Hydraulic Tank (including suction pipe)	217 L	57.3 gal

DIMENSIONS		
<b>Boom</b>	<b>Mass 6.55 (21'6")</b>	
<b>Stick</b>	<b>Mass 3.0UB (9'10")</b>	
<b>Bucket</b>	<b>SD 3.20 m<sup>3</sup> (4.20 yd<sup>3</sup>)</b>	
Shipping Height (top of cab)	3260 mm	10'8"
Handrail Height	3400 mm	11'2"
Shipping Length	11 630 mm	38'2"
Tail Swing Radius	3760 mm	12'4"
Counterweight Clearance	1340 mm	4'5"
Ground Clearance	520 mm	1'8"
Length to Center of Rollers	4360 mm	14'4"
Track Length	5400 mm	17'9"
Track Gauge	2740 mm	9'0"
Transport Width – 600 mm (24") Shoes	3350 mm	11'0"

WORKING RANGES AND FORCES		
<b>Boom</b>	<b>Mass 6.55 (21'6")</b>	
<b>Stick</b>	<b>Mass 3.0UB (9'10")</b>	
<b>Bucket</b>	<b>SD 3.20 m<sup>3</sup> (4.20 yd<sup>3</sup>)</b>	
Maximum Digging Depth	7260 mm	23'10"
Maximum Reach at Ground Level	11 230 mm	36'10"
Maximum Cutting Height	10 280 mm	33'9"
Maximum Loading Height	6770 mm	22'3"
Minimum Loading Height	2610 mm	8'7"
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	7110 mm	23'4"
Maximum Vertical Wall Digging Depth	4570 mm	15'0"
Bucket Digging Force (ISO)	296 kN	66,610 lbf
Stick Digging Force (ISO)	212 kN	47,680 lbf

# STANDARD & OPTIONAL EQUIPMENT

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

CAB	STANDARD	OPTIONAL
High-resolution 203 mm (8") LCD touchscreen monitor	•	
Mechanically adjustable seat	•	
ENGINE	STANDARD	OPTIONAL
Cold start block heaters		•
Two selectable modes: Power, Smart	•	
Automatic engine speed control	•	
3000 m (9,840 ft) altitude capability with no engine power derating	•	
52°C (126°F) high-ambient cooling capacity with hydraulic reverse fan	•	
-18°C (0°F) cold start capability	•	
-32°C (-25°F) cold start capability		•
Double element air filter with integrated pre-cleaner	•	
Biodiesel capability up to B20	•	
CAT TECHNOLOGY	STANDARD	OPTIONAL
Cat Product Link	•	
ELECTRICAL SYSTEM	STANDARD	OPTIONAL
Maintenance-free 1,000 CCA batteries (×2)	•	
Centralized electrical disconnect switch	•	
LED chassis light, LH boom lights, cab lights	•	
BOOMS AND STICKS	STANDARD	OPTIONAL
6.9 m (22'8") Reach boom		•
6.55 m (21'6") Mass boom		•
3.35 m (11') Reach stick		•
3.0 m (9'10") Mass stick		•
2.9 m (9'6") Reach stick		•
2.5 m (8'2") Mass stick		•

HYDRAULIC SYSTEM	STANDARD	OPTIONAL
Boom and stick regeneration circuit	•	
Electronic main control valve	•	
Automatic hydraulic oil warmup	•	
Reverse swing damping valve	•	
Automatic swing parking brake	•	
High performance hydraulic return filter	•	
Two-speed travel	•	
Bio hydraulic oil capability	•	
One-way circuit	•	
One-way circuit with hammer return filter		•
Combined two-way auxiliary circuit		•
Combined two-way auxiliary circuit with hammer return filter		•
SAFETY AND SECURITY	STANDARD	OPTIONAL
Caterpillar One Key security system	•	
Lockable external tool/storage box	•	
Lockable door, fuel, and hydraulic tank locks	•	
Lockable fuel drain compartment	•	
Service platform with anti-skid plate and recessed bolts	•	
RH handrail and handhold (ISO 2867:2011 compliant)	•	
Standard visibility mirror package	•	
Signaling/warning horn	•	
Ground-level secondary engine shutoff switch	•	
Rearview camera and right-hand-side mirror	•	
SERVICE AND MAINTENANCE	STANDARD	OPTIONAL
Grouped location of filters	•	
Scheduled Oil Sampling (S•O•S <sup>SM</sup> ) sampling ports	•	
Electric refueling pump with automatic shutoff		•
UNDERCARRIAGE AND STRUCTURES	STANDARD	OPTIONAL
Towing eye on base frame (ISO 15818:2017 compliant)	•	
9 mt (19,842 lb) counterweight	•	
600 mm (24") double grouser track shoes		•
600 mm (24") HD double grouser track shoes		•
750 mm (30") double grouser track shoes		•
750 mm (30") triple grouser track shoes		•

**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 350 available at [www.cat.com](http://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](http://www.cat.com).

VisionLink is a trademark of Trimble Navigation Limited, registered in the United States and in other countries.

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

©2021 Caterpillar. All Rights Reserved. CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, Product Link, S-O-S, "Caterpillar Corporate Yellow", the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

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

AEXQ3111-01 (02-2021)  
Replaces AEXQ3111-00  
Build Number: 06A  
(China)

