



# Cat<sup>®</sup> 350

## Hydraulic Excavator

*The Cat<sup>®</sup> 350 is reliable, efficient, and up to 15 percent more productive than our 45-ton model. With improved filters and extended service intervals, the excavator will give you more uptime for class-leading performance.*

### High Performance, Low Fuel Consumption

- Get up to 15 percent more production than the 345 GC in similar applications.
- The C9.3B engine can run on biodiesel fuel up to B20 and meets China Nonroad Stage III emissions standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- Match the excavator to the job with two power modes. Smart mode automatically matches engine and hydraulic power to digging conditions, providing max power when needed and reducing power when it isn't to help save fuel.
- The advanced hydraulic system provides the optimum balance of power and efficiency while giving you the control you need for precise digging requirements.
- Valve priority puts hydraulic pressure and flow where you command it to go for fast light- to medium-load cycle times.
- Product Link™ comes standard so you can remotely monitor machine health, location, hours, and fuel consumption on demand through the VisionLink® online interface.

### Reliable in All Weather

- Work up to 3000 m (9,840 ft) above sea level without de-rating.
- Standard high-ambient temperature capability is 52° C (125° F). Standard cold start capability is -18° C (0° F); -32° C (-25° F) cold start capability is an available option.
- Automatic hydraulic oil warm up gets you to work faster in cold temperatures and helps prolong the life of components.
- Three levels of filtration protect the engine from dirty diesel fuel.
- Grease sealed between track pins and bushings reduces travel noise and prevents debris from entering to increase undercarriage life.
- Standard built-in protection includes bottom, travel motor, and swivel guards.
- The sloped track frame prevents mud and debris accumulation, helping reduce risk of track damage.

### Work in Comfort

- The Comfort cab has a wide seat that adjusts for operators of all sizes.
- Standard automatic climate control keeps you at the right temperature all shift long.
- Advanced viscous mounts reduce cab vibration by up to 50 percent over previous excavator models.
- Stow your gear with plenty of in-cab storage. A cup holder, bottle holder, and coat hook are also provided.
- Use the standard radio's USB ports and Bluetooth® technology to connect to personal devices.

### Simple to Operate

- Start the engine with a push button; use a Bluetooth key fob, smartphone app, or Operator ID passcode.
- Program each joystick button – including power mode, response, and pattern – using Operator ID; the machine will remember what you set each time you go to work.
- Navigate quickly on the standard high-resolution 203 mm (8 inch) touchscreen monitor or with the aid of the jog dial control.
- Not sure how a function works or how to maintain the excavator? Always have the operator's manual at your fingertips in the touchscreen monitor.



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## Easy Maintenance

- Expect up to 5 percent less maintenance cost than the 349 due to extended and synchronized service intervals. (Savings calculated over 12,000 machine hours.)
- Check hydraulic system oil and easily drain fuel system water from ground level.
- Track your excavator's filter life and maintenance intervals via the in-cab monitor.
- Oil and fuel filters are grouped and located on right-hand side of machine for easy maintenance.
- The new air intake filter with pre-cleaner has double the dust holding capacity of the previous air intake filter.
- The new hydraulic oil filter provides improved filtration performance, anti-drain valves to keep oil clean when the filter is replaced, and longer life with a 3,000 hour replacement interval – 50 percent longer than previous filter designs.
- S-O-S<sup>SM</sup> ports are on ground level, simplifying maintenance and allowing for quick, easy extraction of fluid samples for analysis.

## Enhanced Safety

- Keep your excavator secure with Operator ID. Use your PIN code on the monitor to enable the push button starting feature.
- A travel direction indicator helps operators know which way to activate the travel levers.
- A ground-level shutoff switch stops all fuel to the engine when activated and shuts down the machine.
- Enjoy great visibility into the trench, in each swing direction, and behind you with the help of smaller cab posts and larger windows.
- Serrated steps and anti-skid punch plate on the service platform help prevent slipping.
- A rearview camera is standard.

## Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
<b>CAB</b>			<b>BOOMS AND STICKS</b>		
High-resolution 203 mm (8") LCD touch screen monitor	✓		6.9 m (22'8") Reach boom		✓
Mechanically adjustable seat	✓		6.55 m (21'6") Mass boom		✓
<b>ENGINE</b>			3.35 m (11') Reach stick		✓
Cold start block heaters		✓	3.0 m (9'10") Mass stick		✓
Two selectable modes: Power, Smart	✓		2.9 m (9'6") Reach stick		✓
Automatic engine speed control	✓		2.5 m (8'2") Mass stick		✓
3000 m (9,840 ft) altitude capability with no engine power de-rating	✓		<b>ELECTRICAL SYSTEM</b>		
52° C (126° F) high-ambient cooling capacity with hydraulic reverse fan	✓		Maintenance-free 1,000 CCA batteries (×2)	✓	
-18° C (0° F) cold start capability	✓		Centralized electrical disconnect switch	✓	
-32° C (-25° F) cold start capability		✓	LED chassis light, LH boom lights, cab lights	✓	
Double element air filter with integrated pre-cleaner	✓		<b>CAT TECHNOLOGY</b>		
Biodiesel capability up to B20	✓		Cat Product Link	✓	
<b>HYDRAULIC SYSTEM</b>			<b>SERVICE AND MAINTENANCE</b>		
Boom and stick regeneration circuit	✓		Grouped location of engine oil and fuel filters	✓	
Electronic main control valve	✓		Scheduled Oil Sampling (S-O-S) sampling ports	✓	
Automatic hydraulic oil warm up	✓		Electric refueling pump with automatic shutoff		✓
Reverse swing damping valve	✓		<b>SAFETY AND SECURITY</b>		
Automatic swing parking brake	✓		Caterpillar One Key security system	✓	
High performance hydraulic return filter	✓		Lockable external tool/storage box	✓	
Two speed travel	✓		Lockable door, fuel, and hydraulic tank locks	✓	
Bio hydraulic oil capability	✓		Lockable fuel drain compartment	✓	
Combined two-way auxiliary circuit		✓	Service platform with anti-skid plate and recessed bolts	✓	
Combined two-way auxiliary circuit with hammer return filter		✓	RH handrail and handhold (ISO 2867 compliant)	✓	
<b>UNDERCARRIAGE AND STRUCTURES</b>			Standard visibility mirror package	✓	
Towing eye on base frame (ISO 15818 compliant)	✓		Signaling/warning horn	✓	
9 mt (19, 842 lb) counterweight	✓		Ground-level secondary engine shutoff switch	✓	
600 mm (24") double grouser track shoes		✓	Rearview camera and right-hand-side mirror	✓	
600 mm (24") HD double grouser track shoes		✓			
750 mm (30") double grouser track shoes		✓			
750 mm (30") triple grouser track shoes		✓			

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## Technical Specifications

### Engine

Engine Model	C9.3B	
Net Power – ISO 9249	307 kW	412 hp
Engine Power – ISO 14396	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 advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system 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.

### 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
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- 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 Capacity

Fuel Tank Capacity	680 L	179.6 gal
Cooling System	48 L	12.7 gal
Engine Oil (with filter)	32 L	8.5 gal
Swing Drive (each)	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

### 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

### 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 Line	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

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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