



# Cat<sup>®</sup> 345 GC

## Hydraulic Excavator

***The Cat<sup>®</sup> 345 GC is a reliable, low-cost-per-hour excavator. It's up to 25 percent more fuel efficient with up to 30 percent less maintenance cost than its comparative model\*. Add in a quiet and comfortable ROPS cab, easy-to-use controls, and several Cat attachment options and you have a fine machine capable of meeting your various job requirements.***

***Not all features available in all regions. Consult your Cat dealer for specific configurations available in your region.***

### High Performance with Lower Fuel Consumption

- Get up to 25 percent more fuel efficiency than the 349D2 Tier 3 excavator in similar applications.
- The C9.3B engine can run on biodiesel fuel up to B20 and meets Brazil MAR-1 and China Nonroad Stage III emission 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.
- Advansys™ bucket tips increase penetration and improve cycle times. Tip changes can be done quickly with a simple lug wrench instead of a hammer or special tool, improving safety and uptime.
- Add auxiliary hydraulics to do more work with various Cat attachments.
- Product Link™ comes standard so you can remotely monitor machine health, location, hours, and fuel consumption on demand through the VisionLink® online interface.

### Reliable, High and Low, Heat and Cold

- Work up to 3300 m (10,830 ft) above sea level.
- Standard high-ambient temperature capability is 52° C (125° F) with cold start capability at -18° C (0° F).
- Automatic hydraulic oil warm up gets you to work faster in cold temperatures and helps prolong the life of components.
- Advanced fuel filter system protects 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 a heavy-duty bottom guard, travel motor guard, and swivel protection guard.
- The sloped track frame prevents mud and debris accumulation, helping reduce risk of track damage.

*\*Compared to 349D2 Tier 3.*



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## Work in Comfort in the All-New Cab

- The Comfort cab has a wide seat that adjusts for operators of all sizes.
- Control the excavator comfortably with easy-to-reach controls all located in front of you.
- 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 beneath and behind the seat, overhead, and in the consoles.
- 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 your power mode and joystick preferences using Operator ID; the excavator will remember them every time you go to work.
- Protect your hammer from overworking. Auto hammer stop warns you after 15 seconds of continuous firing and then automatically shuts it off after 30 seconds – all to prevent wear and tear on the attachment and excavator.
- Navigate quickly on the standard high-resolution 203 mm (8 in) touchscreen monitor or with the aid of the jog dial control.
- The Cat Locator is a Bluetooth device that makes finding your attachments and other gear quick and easy. The Cat App on your phone will locate the device automatically.
- 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.

## Maintenance

- Expect up to 30 percent less maintenance cost than the 349D2 Tier 3 excavator due to extended and synchronized service intervals and smaller fluid quantities. (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.
- Change all fuel filters at a synchronized 1,000 hours. Oil and fuel filters are grouped and located on right-hand side of machine for easy maintenance.
- The new air intake filter with precleaner has double the dirt 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.

## Safety

- Keep your excavator secure with Operator ID. Use your PIN code on the monitor to enable the push button starting feature.
- The standard ROPS cab meets ISO 12117-2:2008 requirements.
- 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 plates 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>		
ROPS, standard sound suppression	✓		6.55 m (21'6") Mass boom		✓
High-resolution 203 mm (8 in) LCD touchscreen monitor	✓		6.9 m (22'8") Reach boom		✓
Mechanically adjustable seat	✓		2.55 m (8'4") Mass stick		✓
<b>ENGINE</b>			2.9 m (9'6") Reach stick		✓
Cold start block heaters		✓	2.9 m (9'6") HD Reach stick		✓
Two selectable modes: Power, Smart	✓		3.0 m (9'10") Mass stick		✓
Automatic engine speed control	✓		3.35 m (11'0") Reach stick		✓
Up to 3300 m (10,830 ft) altitude capability	✓		3.35 m (11') HD Reach stick		✓
52° C (126° F) high-ambient cooling capacity	✓		<b>ELECTRICAL SYSTEM</b>		
-18° C (0° F) cold start capability	✓		Maintenance-free 1,000 CCA batteries (x2)	✓	
-32° C (-25° F) cold start capability		✓	Centralized electrical disconnect switch	✓	
Double element air filter with integrated precleaner	✓		LED chassis light, RH and LH boom lights, cab lights	✓	
Biodiesel capability up to B20	✓		<b>CAT TECHNOLOGY</b>		
<b>HYDRAULIC SYSTEM</b>			Cat Product Link	✓	
Boom and stick regeneration circuit	✓		Auto Hammer Stop	✓	
Electronic main control valve	✓		<b>SERVICE AND MAINTENANCE</b>		
Automatic hydraulic oil warm up	✓		Grouped location of engine oil and fuel filters	✓	
Reverse swing damping valve	✓		Scheduled Oil Sampling (S-O-S) sampling ports	✓	
Automatic swing parking brake	✓		Electric refueling pump with automatic shutoff		✓
High performance hydraulic return filter	✓		<b>SAFETY AND SECURITY</b>		
Two speed travel	✓		Caterpillar One Key security system	✓	
Bio hydraulic oil capability	✓		Lockable external tool/storage box	✓	
Fine swing		✓	Lockable door, fuel, and hydraulic tank locks	✓	
Combined two-way auxiliary circuit		✓	Lockable fuel drain compartment	✓	
Combined two-way auxiliary circuit with hammer return filter		✓	Service platform with anti-skid plate and recessed bolts	✓	
<b>UNDERCARRIAGE AND STRUCTURES</b>			RH handrail and hand hold (ISO 2867:2011 Compliant)	✓	
Long undercarriage	✓		Signaling/warning horn	✓	
Towing eye on base frame	✓		Standard visibility mirror package	✓	
9 mt (19,842 lb) counterweight	✓		Ground-level secondary engine shutoff switch	✓	
600 mm (24") double grouser, triple grouser, HD triple grouser track shoes		✓	Rearview camera and right-hand-side mirror	✓	
700 mm (28") 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 brochure available at [www.cat.com](http://www.cat.com) or your Cat dealer.

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## Technical Specifications

Engine		
Engine Model	C9.3B	
Engine Power – ISO 9249	258 kW	346 hp
Engine Power – ISO 14396	259 kW	347 hp
Bore	115 mm	5 in
Stroke	149 mm	6 in
Displacement	9.3 L	568 in <sup>3</sup>

Hydraulic System		
Main System – Maximum Flow – Implement	630 L/min (315 L/min × 2 pumps)	166 gal/min (83 gal/min × 2 pumps)
Maximum Pressure – Equipment – Implement	35 000 kPa	5,076 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	28 000 kPa	4,061 psi

Swing Mechanism		
Swing Speed	8.27 rpm	
Maximum Swing Torque	155 kN·m	114,543 lbf·ft

Weights		
Operating Weight	42 200 kg	93,000 lb
• Reach boom, R2.9TB (9'6") stick, HD 2.41 m <sup>3</sup> (3.15 yd <sup>3</sup> ) bucket, 600 mm (24") double grouser shoes, 9 mt (19,842 lb) counterweight.		

Service Refill Capacities		
Fuel Tank Capacity	600 L	158.5 gal
Cooling System	40 L	10.5 gal
Engine Oil (with filter)	32 L	8.5 gal
Swing Drive	18 L	4.8 gal
Final Drive (each)	8 L	2.1 gal
Hydraulic System (including tank)	423 L	111.7 gal
Hydraulic Tank (including suction pipe)	186 L	49.1 gal

Dimensions		
<b>Boom</b>	<b>Reach 6.9 m (22'8")</b>	
<b>Stick</b>	<b>Reach R2.9TB (9'6")</b>	
<b>Bucket</b>	<b>HD 2.41 m<sup>3</sup> (3.15 yd<sup>3</sup>)</b>	
Shipping Height (top of cab)	3230 mm	10'7"
Handrail Height	3370 mm	11'0"
Shipping Length	11 620 mm	38'1"
Tail Swing Radius	3530 mm	11'6"
Counterweight Clearance	1300 mm	4'3"
Ground Clearance	520 mm	1'8"
Track Length	5030 mm	16'6"
Length to Center of Rollers	4040 mm	13'3"
Track Gauge	2740 mm	8'11"
Transport Width – 600 mm (24") Shoes	3340 mm	10'11"

Working Ranges and Forces		
<b>Boom</b>	<b>Reach 6.9 m (22'8")</b>	
<b>Stick</b>	<b>Reach R2.9TB (9'6")</b>	
<b>Bucket</b>	<b>HD 2.41 m<sup>3</sup> (3.15 yd<sup>3</sup>)</b>	
Maximum Digging Depth	7200 mm	23'7"
Maximum Reach at Ground Line	11 290 mm	37'0"
Maximum Cutting Height	10 540 mm	34'6"
Maximum Loading Height	7210 mm	23'7"
Minimum Loading Height	3130 mm	10'3"
Maximum Depth Cut for 2240 mm (8'0") Level Bottom	7040 mm	23'1"
Maximum Vertical Wall Digging Depth	5390 mm	17'8"
Bucket Digging Force (ISO)	235 kN	52,860 lbf
Stick Digging Force (ISO)	198 kN	44,550 lbf



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