



# 313 GC

## Hydraulic Excavator

**If you need reliability, durability, high productivity, and low cost, the Cat® 313 GC is made for you. This excavator is designed, built, and uniquely supported to put you on the fast track to prosperity.**

### Latest Features

- Make the jobsite safer with an optional swing alarm.
- Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area.  
Build Number: 05C*

### Reliable, Durable Performance

- The redesigned 313 GC allows you to be up to 5% more productive than with the previous 313D2 GC model.
- The C3.6 engine and electrohydraulic system work in sync to help you move loads of material without burning excessive fuel, and meets China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIA.
- The main hydraulic pump is electronically controlled and provides more fluid flow than the previous model, improving control and productivity.
- Breakout force is increased and a redesigned swing drive gives you improved swing torque and smoothness, maximizing your productivity.
- Undercarriage and track design balances performance and stability.
- Boom, stick, and bucket linkage are enhanced to ensure maximum durability.
- A hammer-ready valve is standard for added versatility.

### Low Owning and Operating Costs

- Match the power to the job with three working modes: Smart for power automatically adjusted to demand, Eco for lowest fuel burn, and Power for highest productivity.
- The 313GC is designed for easier and less expensive maintenance, lowering costs up to 20%.
- Hydraulic and air filters have increased service life, while the pilot and case drain filters have been eliminated.
- Routine maintenance can be performed from ground level, decreasing the amount of time you spend on daily tasks.
- Swing drive operates on the hydraulic system, eliminating the need to check or refill a separate oil system.
- Both the hydraulic and engine oil refill amounts have been reduced with no change in performance or service life.
- When hydraulic demand is low, the Automatic Engine Control (AEC) system reduces RPM, lowering your fuel costs.
- Cat Product Link™ comes standard so you can remotely monitor fuel consumption, machine health, location, and hours on demand through VisionLink®.

### Simple to Operate

- Start the engine with a pushbutton.
- One-button sticks (with adjustable joystick response and gain) make control easy for any operator.
- Navigate quickly through simplified control menus on the high-resolution 203 mm (8 in) touchscreen monitor.



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## Work in Comfort

- Wide seat (larger than previous models) adjusts for operators of all sizes.
- Standard automatic climate control keeps you at the right temperature all shift long.
- Convenience features include a radio, headphone port, and a USB port for connecting and charging devices.
- Cup holder and storage space in front of the controls can hold large cups and wide cell phones; storage behind the seat can hold a hard hat, large lunchbox, and other items.

## Easy to Maintain

- Nearly all major mechanical components are accessed from the ground or the service platform.
- Radiator screens can be removed easily, are simple to clean, and keep the radiators free of small debris that can be difficult to remove, such as grass clippings.
- Engine compartment is easily accessed from the service platform; fluid caps and gauges are easily reached, and an automatic tensioner ensures you will never need to make belt adjustments.
- Cat technology helps you monitor your machine, and the Caterpillar service network helps you maximize uptime.

## Enhanced Safety

- Access daily maintenance points from ground level – no climbing necessary.
- Emergency engine and electrical shut-offs are also at ground level.
- Handrails meet ISO 2867:2011 requirements; steps and platforms use anti-skid plates with countersunk bolts to prevent slipping and tripping.
- Operator can exit in an emergency through either the rear window or the steel top hatch.
- New cab has larger windows and smaller cab posts, providing excellent visibility into the trench and in every direction.
- Bright exterior LED lights and an optional rearview camera ensure you have total visibility on the jobsite.
- Enhance jobsite safety. Add a swing alarm to alert people when you're rotating from trench to stockpile and back again.

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

	Standard	Optional		Standard	Optional
<b>BOOM AND STICKS</b>			<b>HYDRAULIC SYSTEM</b>		
4.65 m (15'3") Reach boom	✓		Electronic main control valve	✓	
2.5 m (8'2") Reach stick		✓	Electronic control pump	✓	
3.0 m (9'8") Reach stick		✓	Boom and stick regeneration circuits	✓	
<b>CAB</b>			Automatic hydraulic oil warm up	✓	
Sound suppressed with viscous mounts	✓		Automatic two-speed travel	✓	
High-resolution 203 mm (8") LCD touchscreen monitor	✓		High performance hydraulic return filter	✓	
Mechanically adjustable seat with headrest	✓		Hammer lines		✓
Automatic bi-level air conditioner	✓		Hammer floor pedal kit		✓
Keyless push-to-start engine control	✓		<b>SAFETY AND SECURITY</b>		
Floor-mounted adjustable consoles	✓		Anti-skid plating with countersunk bolts	✓	
1-button joystick	✓		Handrail and handhold	✓	
AM/FM radio with USB and auxiliary port	✓		Lockable external tool/storage box	✓	
24V DC outlet	✓		Mirror package	✓	
Cup holder and storage compartments	✓		Signaling/warning horn	✓	
70/30 tempered glass windshield	✓		Hydraulic lockout lever	✓	
Upper radial wiper with washer	✓		Rearview camera		✓
Openable steel hatch	✓		Swing alarm		✓
Dome light	✓		Travel alarm with cancel switch		✓
Washable floor mat	✓		<b>SERVICE AND MAINTENANCE</b>		
1-slider joystick		✓	Grouped location of filters	✓	
<b>CAT TECHNOLOGY</b>			Radiator screen	✓	
Cat® Product Link	✓		Scheduled Oil Sampling (S-O-S <sup>SM</sup> ) ports	✓	
<b>ELECTRICAL SYSTEM</b>			<b>UNDERCARRIAGE AND STRUCTURES</b>		
750 CCA maintenance-free batteries (x2)	✓		Center track guiding guard	✓	
Electrical disconnect switch	✓		Grease lubricated track link	✓	
LED left-side boom and chassis lights	✓		Bottom guards	✓	
LED right-side boom light		✓	Travel motor guards	✓	
<b>ENGINE</b>			2.25 mt (4,960 lb) counterweight	✓	
Three selectable modes: Power, Smart, Eco	✓		Tie-down points	✓	
52° C (125° F) high-ambient cooling capability	✓		500 mm (20") triple grouser shoes		✓
-18° C (0° F) cold start capability	✓		600 mm (24") triple grouser shoes		✓
Biodiesel capability up to B20	✓		700 mm (28") triple grouser shoes with additional steps		✓
Electric fuel priming pump	✓		770 mm (30") triple grouser shoes with additional steps		✓
Two-stage fuel filtration system	✓		Swivel guard		✓
Sealed double-element air filter with pre-cleaner	✓				
-25° C (-13° F) cold start capability		✓			

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## Technical Specifications

### Engine

Engine Model	Cat C3.6	
Net Power – ISO 9249	70.6 kW	95 hp
Engine Power – ISO 14396	74.4 kW	100 hp
Bore	98 mm	4 in
Stroke	120 mm	5 in
Displacement	3.6 L	220 in <sup>3</sup>

- Advertised power is tested per the specified standard in effect at the time of manufacture.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system and alternator.

### Hydraulic System

Main System – Maximum Flow	247 L/min	65 gal/min
Maximum Pressure – Equipment	35 000 kPa	5,075 psi
Maximum Pressure – Travel	35 000 kPa	5,075 psi

### Swing Mechanism

Swing Speed	11.5 r/min	
Maximum Swing Torque	43 kN·m	31,641 ft·lbf

### Weights

Operating Weight	12 400 kg	27,200 lb
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### Service Refill Capacities

Fuel Tank Capacity	237 L	62.6 gal
Cooling System	11 L	2.9 gal
Engine Oil	11 L	2.9 gal
Final Drive – Each	3 L	0.8 gal
Hydraulic System – Including Tank	145 L	38.3 gal
Hydraulic Tank	77 L	20.3 gal

### Dimensions

<b>Boom</b>	<b>Reach 4.65 m (15'3")</b>	
<b>Stick</b>	<b>Reach 2.5 m (8'2")</b>	
<b>Bucket</b>	<b>GD 0.53 m<sup>3</sup> (0.69 yd<sup>3</sup>)</b>	
Shipping Height – Top of Cab	2780 mm	9.1 ft
Handrail Height	2820 mm	9.3 ft
Shipping Length	7700 mm	25.3 ft
Tail Swing Radius	2200 mm	7.3 ft
Counterweight Clearance	890 mm	2.9 ft
Ground Clearance	430 mm	1.4 ft
Track Length	3490 mm	11.5 ft
Length to Center of Rollers	2780 mm	9.1 ft
Track Gauge	1990 mm	6.5 ft
Transport Width	2490 mm	8.1 ft

### Working Ranges and Forces

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<b>Bucket</b>	<b>GD 0.53 m<sup>3</sup> (0.69 yd<sup>3</sup>)</b>	
Maximum Digging Depth	5570 mm	18.3 ft
Maximum Reach at Ground Level	8210 mm	26.9 ft
Maximum Cutting Height	8530 mm	27.9 ft
Maximum Loading Height	6070 mm	19.9 ft
Minimum Loading Height	1980 mm	6.5 ft
Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	5370 mm	17.6 ft
Maximum Vertical Wall Digging Depth	5040 mm	16.5 ft
Bucket Digging Force – ISO	95.7 kN	21,510 lbf
Stick Digging Force – ISO	68.2 kN	15,330 lbf

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