



# Cat<sup>®</sup> 313 GC

## Hydraulic Excavator

***The Cat<sup>®</sup> 313 GC excavator matches its performance to your job. A new, larger cab with an ergonomic layout keeps you comfortable all shift long. Combined with fuel saving features, longer maintenance intervals, and simplified maintenance points, the 313 GC provides the reliability you expect at the low-cost-per-hour you need.***

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

### **Fuel Saving Performance Matched to the Job**

- Use up to 10 percent less fuel than the 313F GC to keep you moving and productive on the jobsite.
- Easily work on slopes and move around the jobsite with 10 percent more swing torque.
- The advanced hydraulic system provides the optimum balance of power and efficiency while providing the control needed for precise digging requirements.
- Smart mode meets your power needs by automatically matching engine and hydraulic power to digging conditions.
- Get higher production in demanding applications, easier penetration into piles, and faster cycle times with Cat Advansys™ bucket tips. Quickly change tips with a simple lug wrench instead of a hammer or special tool, improving safety and uptime.
- Auxiliary hydraulic options give you the versatility to use a wide range of Cat attachments.
- The Cat C3.6 engine meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Product Link™ comes standard so you can remotely monitor machine health, location, hours, and fuel consumption on demand through the VisionLink® online interface.

### **Lower Maintenance Costs**

- Expect up to 25 percent less maintenance costs than the 313F GC.
- Quickly check and service your machine with all daily maintenance points accessible from ground level.
- Check the engine oil level quickly and safely from the ground. Fill and check engine oil on top of the machine with a conveniently located second dipstick.
- 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.
- The engine does not require diesel exhaust fluid (DEF).
- Track your machine's filter life and maintenance intervals on the in-cab monitor.
- S-O-S<sup>SM</sup> ports are located at ground level, simplifying maintenance and allowing for quick, easy extraction of fluid samples for analysis.



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## Work in Comfort in the All-New Cab

- Increase operator productivity with an all-new, larger cab.
- The cab has a wide seat that adjusts for operators of all sizes.
- Advanced viscous mounts reduce cab vibration.
- Control the excavator comfortably with easy-to-reach controls all located in front of you.
- 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 personal devices and make hands-free calls.

## Reliable, Whatever the Environment

- Don't let the temperature stop you from working. The 313 GC has a standard high-ambient temperature capability of 52° C (125° F) without de-rate and cold-start capability of -18° C (0° F).
- Auto warm up speeds up hydraulic oil warming in cold temperatures and helps prolong the life of components.
- Grease sealed between track pins and bushings reduces travel noise and prevents debris from entering to increase undercarriage life.
- The track guiding guard helps keep the excavator track aligned when traveling and working on slopes.
- The sloped track frame prevents mud and debris accumulation, helping reduce the risk of track damage.

## Simple to Operate

- Start the engine with the push of a button, a Bluetooth key fob, smartphone app, or the unique Operator ID function.
- Program your preferred power mode and joystick settings using your operator ID. The excavator will automatically remember your selections.
- Navigate quickly on the standard high-resolution touchscreen monitor or with the aid of the jog dial control.
- The Cat PL161 Attachment 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 your machine? Simply access the operator's manual through the touch screen monitor.

## Safety

- Access all daily maintenance points from ground level – no need for you to climb on top of the machine.
- The standard ROPS cab meets ISO 12117-2:2008 requirements.
- The standard hydraulic lockout lever isolates all hydraulic and travel functions in the lowered position.
- A ground-level shut-off switch stops all fuel to the engine and shuts down the machine when activated.
- A rearview and right-side-view camera are standard, increasing safety and visibility.
- New service platform design provides easy, safe, and quick access to the upper service platform. Prevent slipping with the anti-skid punch plate on the platform steps.
- Optional boom and stick lowering check valves prevent reverse flow, keeping your front linkage securely in place should the hydraulic system unexpectedly lose power.
- Brightly colored seatbelts allow easy recognition of properly utilized safety restraints.

## Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
<b>BOOMS AND STICKS</b>			<b>HYDRAULIC SYSTEM</b>		
4.65 m (15'3") Reach boom	✓		Boom and stick regeneration circuits	✓	
R2.5 m (8'2") stick		✓ <sup>1</sup>	Automatic hydraulic warm up	✓	
R2.8 m (9'2") stick		✓ <sup>2</sup>	Automatic two speed travel	✓	
R3.0 m (9'8") stick		✓	Electric main control valve	✓	
<b>CAB</b>			Boom and stick drift reduction valve	✓	
ROPS, Sound Suppression	✓		Auxiliary line support	✓	
Comfort Cab: mechanical suspension seat, 203 mm (8") touch screen monitor	✓		Boom and stick lowering check valves		✓
<b>CAT TECHNOLOGY</b>			Medium-pressure line		✓
Cat Product Link™	✓		High-pressure line		✓
Auto hammer stop	✓		Quick coupler line		✓
<b>ELECTRICAL SYSTEM</b>			<b>SAFETY AND SECURITY</b>		
Maintenance free battery	✓		Rear and right-side-view cameras	✓	
LED chassis light, left-side boom light, cab lights	✓		Hydraulic lock out lever	✓	
LED right-side boom light		✓	Ground level engine shutoff switch	✓	
Programmable time-delay LED working lights	✓		Service platform with anti-skid plate and countersunk bolts	✓	
360° lighting		✓	Signaling/warning horn	✓	
<b>ENGINE</b>			<b>SERVICE AND MAINTENANCE</b>		
C3.6 Stage V/Tier 4 Final diesel engine	✓		Grouped engine oil and fuel filters	✓	
Automatic engine speed control	✓		Side entry to service platform	✓	
Automatic engine shutdown	✓		Ground level engine oil dipstick	✓	
52° C (125° F) high-ambient cooling capacity without de-rate	✓		S-O-S <sup>SM</sup> sampling ports	✓	
-18° C (0° F) cold start capability	✓		<b>UNDERCARRIAGE AND STRUCTURES</b>		
Electric fuel priming pump	✓		Grease lubricated track link	✓	
Variable speed fan	✓		ISO 15818 tie down points on base frame	✓	
Single fuel filtration system	✓		500 mm (20") triple grouser shoes		✓
Double element air filter with integrated precleaner	✓		600 mm (24") triple grouser shoes		✓
Biodiesel capability up to B20	✓		700 mm (28") triple grouser shoes		✓
			2470 kg (5,445 lb) counterweight	✓	
			2500 mm (8'2") blade		✓
			2600 mm (8'6") blade		✓
			2700 mm (8'10") blade		✓

<sup>1</sup>Europe only

<sup>2</sup>North America only

**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 and additional regional offerings, refer to the Technical Specifications brochure available at [www.cat.com](http://www.cat.com) or your Cat dealer.

# Cat® 313 GC Hydraulic Excavator

## Technical Specifications

### Engine

Engine Model	Cat C3.6	
Engine Power – ISO 14396	55.4 kW	74 hp
Engine Power – ISO 9249	54.3 kW	73 hp
Bore	98 mm	4 in
Stroke	120 mm	5 in
Displacement	3.6 L	220 in <sup>3</sup>

### 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
Maximum Pressure – Swing	26 000 kPa	3,770 psi

### Swing Mechanism

Swing Speed	11.5 rpm	
Maximum Swing Torque	35 kN-m	25,888 lbf-ft

### Weights

Operating Weight	13 800 kg	30,400 lb
• Long Undercarriage, Reach Boom, R 3.0 (9'1") Stick, GD 0.53 m <sup>3</sup> (0.69 yd <sup>3</sup> ) bucket, 700 mm (28") triple grouser shoes, and 2470 kg (5,445 lb) counterweight.		

### Service Refill Capacities

Fuel Tank Capacity	258 L	68.2 gal
Cooling System	15 L	4 gal
Engine Oil	8 L	2.1 gal
Final Drive (each)	3 L	0.8 gal
Hydraulic System (including tank)	145 L	38.3 gal
Hydraulic Tank	70 L	18.5 gal

### Dimensions

<b>Boom</b>	<b>Reach 4.65 m (15'3")</b>	
<b>Stick</b>	<b>Reach 3.0 m (9'8")</b>	
<b>Bucket</b>	<b>GD 0.53 m<sup>3</sup> (0.69 yd<sup>3</sup>)</b>	
Shipping Height (top of cab)	2810 mm	9'2"
Handrail Height	2810 mm	9'2"
Shipping Length	7780 mm	25'6"
Shipping Length (with blade)	8050 mm	26'4"
Tail Swing Radius	2190 mm	7'2"
Counterweight Clearance	916 mm	3'0"
Ground Clearance	446 mm	1'5"
Track Length	3750 mm	12'3"
Length to Center of Rollers	3040 mm	9'11"
Track Gauge	1,990 mm	6'6"
Transport Width – 500 mm (20") shoe	2490 mm	8'2"

### Working Ranges

<b>Boom</b>	<b>Reach 4.65 m (15'3")</b>	
<b>Stick</b>	<b>Reach 3.0 m (9'8")</b>	
<b>Bucket</b>	<b>GD 0.53 m<sup>3</sup> (0.69 yd<sup>3</sup>)</b>	
Maximum Digging Depth	6040 mm	19'9"
Maximum Reach at Ground Line	8660 mm	28'4"
Maximum Cutting Height	8830 mm	28'11"
Maximum Loading Height	6420 mm	21'0"
Minimum Loading Height	1600 mm	5'2"
Maximum Depth Cut for 2400 mm (8'0") Level Bottom	5860 mm	19'2"
Maximum Vertical Wall Digging Depth	5190 mm	17'0"
Minimum Working Equipment Radius	2570 mm	8'5"
Bucket Digging Force (ISO)	98.67 kN	22,180 lbf
Stick Digging Force (ISO)	59.29 kN	13,330 lbf

### Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.85 kg of refrigerant which has a CO<sub>2</sub> equivalent of 1.216 metric tonnes.

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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AEHJ0203 (03-2020)

Build Number: 07A

(N Am, Eur)

