



# Cat<sup>®</sup> 313 GC

## Hydraulic Excavator

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

### **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 plenty of material without burning truckloads of fuel, and meets U.S. EPA Tier 3 and EU Stage IIIA emission standards, equivalent to China Nonroad Stage III.
- New 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, increasing your productivity.
- Undercarriage and track design balances performance and stability.
- Boom, stick, and bucket linkage are enhanced to ensure maximum durability.

### **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 313 GC 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.
- Daily 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 different 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.

### **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 forward 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.



# Cat® 313 GC Hydraulic Excavator

---

## 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.

## Standard and Optional Equipment

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 <sup>1</sup>		✓	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	✓		Hammer lines		✓
Mechanically adjustable seat with headrest	✓		Hammer floor pedal kit		✓
Automatic bi-level air conditioner	✓		High performance hydraulic return filter	✓	
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 aux port	✓		Lockable external tool/storage box	✓	
24V DC outlet	✓		Mirror package	✓	
Cup holder and storage compartments	✓		Rearview camera		✓
70/30 tempered glass windshield	✓		Signaling/warning horn	✓	
Upper radial wiper with washer	✓		Hydraulic lockout lever	✓	
Openable steel hatch	✓		<b>SERVICE AND MAINTENANCE</b>		
Dome light	✓		Grouped location of filters	✓	
Washable floor mat	✓		Radiator screen	✓	
<b>CAT TECHNOLOGY</b>			S•O•S <sup>SM</sup> sampling ports	✓	
Cat Product Link	✓		<b>UNDERCARRIAGE AND STRUCTURES</b>		
<b>ELECTRICAL SYSTEM</b>			500 mm (20") triple grouser shoes		✓
750 CCA maintenance-free batteries (x2)	✓		600 mm (24") triple grouser shoes <sup>1</sup>		✓
Electrical disconnect switch	✓		700 mm (28") triple grouser shoes with additional steps <sup>4</sup>		✓
LED left-side boom and chassis lights	✓		770 mm (30") triple grouser shoes with additional steps <sup>4</sup>		✓
LED right-side boom light <sup>1</sup>		✓	Center track guiding guard	✓	
LED cab light	✓		Grease lubricated track link	✓	
<b>ENGINE</b>			Bottom guards	✓	
Three selectable modes: Power, Smart, Eco	✓		Travel motor guards	✓	
52°C (125°F) high-ambient cooling capability	✓		2.25 mt (4,960 lb) counterweight	✓	
-18°C (0°F) cold start capability <sup>2</sup>	✓		Tie-down points	✓	
-25°C (-13°F) cold start capability <sup>3</sup>		✓			
Biodiesel capability up to B20	✓				
Electric fuel priming pump	✓				
Two-stage fuel filtration system	✓				
Sealed double-element air filter with precleaner	✓				

<sup>1</sup>All regions except Hong Kong and Taiwan

<sup>2</sup>All regions except CIS

<sup>3</sup>CIS and Africa, Middle East only

<sup>4</sup>All regions except Hong Kong, Taiwan, and Africa, Middle East

# Cat® 313 GC Hydraulic Excavator

## Technical Specifications

### Engine

Engine Model	C3.6	
Net Power – ISO 9249:2007	70.6 kW	95 hp
Engine Power – ISO 14396:2002	74.4 kW	100 hp
Bore	98 mm	4 in
Stroke	120 mm	5 in
Displacement	3.6 L	220 in <sup>3</sup>

- The 313 GC meets U.S. EPA Tier 3 and EU Stage IIIA emission standards, equivalent to China Nonroad Stage III.
- No engine power derating required below 3,000 m altitude.
- Rating at 2,200 rpm.

### Hydraulic System

Main System – Maximum Flow – Implement	247 L/min	65 gal/min
Maximum Pressure – Equipment – Normal	35 000 kPa	5,076 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	26 000 kPa	3,770 psi
Boom Cylinder – Bore	105 mm	4 in
Boom Cylinder – Stroke	1015 mm	40 in
Stick Cylinder – Bore	115 mm	5 in
Stick Cylinder – Stroke	1197 mm	47 in
Bucket Cylinder – Bore	95 mm	4 in
Bucket Cylinder – Stroke	939 mm	37 in

### 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

### Swing Mechanism

Swing Speed	11.5 rpm	
Maximum Swing Torque	43 kN•m	31,641 lbf-ft

### Machine Weight

Operating Weight	12 400 kg	27,200 lb
STD undercarriage, 4.65 m boom, R2.5 stick, GD 0.53 m <sup>3</sup> bucket, and 500 mm TG shoes, AUX line.		

### 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> (.69 yd<sup>3</sup>)</b>	
Shipping Height (top of cab)	2780 mm	9'1"
Handrail Height	2820 mm	9'3"
Shipping Length	7630 mm	25'0"
Tail Swing Radius	2160 mm	7'1"
Counterweight Clearance	895 mm	2'11"
Ground Clearance	425 mm	1'5"
Track Length	3490 mm	11'5"
Length to Center of Rollers	2780 mm	9'1"
Track Gauge	1990 mm	6'6"
Transport Width – 500 mm (20") Shoes	2490 mm	8'2"

### Working Ranges and Forces

<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> (.69 yd<sup>3</sup>)</b>	
Maximum Digging Depth	5570 mm	18'3"
Maximum Reach at Ground Level	8210 mm	26'11"
Maximum Cutting Height	8530 mm	28'0"
Maximum Loading Height	6070 mm	19'11"
Minimum Loading Height	1980 mm	6'6"
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	5370 mm	17'7"
Maximum Vertical Wall Digging Depth	5040 mm	16'6"
Bucket Digging Force (ISO)	95.7 kN	21,510 lbf
Stick Digging Force (ISO)	68.2 kN	15,330 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).

© 2021 Caterpillar  
All rights reserved

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

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. "VisionLink is a trademark of VirtualSite Solutions LLC, registered in the United States and in other countries."

PEDJ0866-00 (10-2021)  
Build Number: 05A  
(Afr-ME, CIS, Hong Kong,  
Taiwan, S Am, SE Asia)

