

313 GC

HYDRAULIC EXCAVATOR



Net Power – ISO 9249
Operating Weight
Maximum Digging Depth

70.6 kW (95 hp)
12 400 kg (27,200 lb)
5570 mm (18.3 ft)



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.



INCREASED PERFORMANCE

The 313 GC improves productivity by up to 5%. Higher breakout force and greater swing torque help you get more work done every day.

UP TO 20% LOWER MAINTENANCE COSTS

With extended, synchronized maintenance intervals, you get more done at a lower cost.

DESIGNED FOR DAILY WORK

The 313 GC is easy to own and operate, providing the reliability and durability you expect from Cat products.

LATEST FEATURES



- Cab Monitor Improvements

1. Continuously improved user interface allows for intuitive navigation, minimizing performance interruption with the easy-to-use touchscreen menu.
2. Identify apps quickly with a grid list view, abbreviated app names, and categorized menu options.
3. A notification center keeps important information visible to the operator, and displays messages without shrinking the camera view.
4. Color coded notifications set critical messages apart from the rest.
5. Use the in-monitor QR code to learn about machine and technology features through a full suite of "how-to" videos.

Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area. Build Number: 05D

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 IIIA.
- 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 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.
- 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 push button.
- 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.
- Easily move soft, wet, and sticky material with a new, optional shallow profile bucket.
- Cat continues to improve user interface functionality for operators of all skill levels. The touchscreen monitor is an easy-to-use operating tool that presents the jobsite dashboard with an intuitive format. Productivity applications are displayed in grid-view to read on-the-go, and touchscreen navigation is programmed to make sure job performance continues without any hold ups.



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.

1,000 WAYS TO STAY SAFE.

FACT:

SLIPPING IS ONE OF THE **BIGGEST CONTRIBUTORS** TO WORKPLACE INJURIES.*

OUR ANTI-SKID PLATES FEATURE

1,000+ INDIVIDUAL PERFORATIONS FOR BETTER TRACTION

*SOURCE: [HTTPS://WWW.OSHA.GOV/DTE/GRANT_MATERIALS/FY07/SH-16625-07/SLIPSTRIPSFALLS.PPT](https://www.osha.gov/dte/grant_materials/fy07/sh-16625-07/slipstripsfalls.ppt)

MORE THAN MACHINES

BUILT AROUND YOUR SUCCESS

When you buy Cat equipment, you get so much more than the machine. You also get the support of a best-in-class dealer network, backed by a range of flexible solutions, technology, tools, and more.



CUSTOMER VALUE AGREEMENTS

A Customer Value Agreement (CVA) from your Cat dealer helps you do more and worry less. A CVA simplifies machine ownership and maintenance, adds the security of expert dealer support, and gives you the peace of mind from effective equipment health management.

GENUINE CAT PARTS

Genuine Cat parts deliver the highest level of reliability and productivity. Order direct from your Cat dealer or shop online at parts.cat.com.

REPAIR OPTIONS

A broad range of repair options gives you choices that work with your needs, budget, and timeline. Every repair is performed by expert Cat technicians. You'll receive smart repair advice, a timely, accurate quote, and service that gets your machine back into action quickly.

FINANCIAL SERVICES

Count on Cat Financial to provide the best finance and extended protection solutions for your business. For more than 30 years, we have helped our customers succeed through financial service excellence.



DOZERS



SKID STEERS



MATERIAL HANDLERS



EXCAVATORS



WHEEL LOADERS



TRACK LOADERS

INCREASE YOUR PRODUCTIVITY AND PROFIT WITH CAT ATTACHMENTS

You can easily expand the performance of your 313 GC by utilizing a variety of Cat attachments. Each Cat attachment is designed to fit the weight and horsepower of the Cat excavator for improved performance, safety, and stability.

GENERAL DUTY BUCKETS



VIBRATORY PLATES



BETTER BUCKET, GREATER PAYDAYS

Get greater payloads and paydays with the Cat general duty excavation bucket.

HYDRAULIC HAMMERS



PREVENT HAMMER WEAR AND TEAR

Protect your hammer tool from overheating and rapid wear. Auto hammer stop warns you after 15 seconds of continuous firing and then automatically shuts it off after 30 seconds – all to extend the tool's service life.

TECHNICAL SPECIFICATIONS

Engine

Net Power – ISO 9249	70.6 kW	95 hp
Engine Model	Cat C3.6	
Net Power – ISO 9249 (DIN)	96 hp (metric)	
Engine Power – ISO 14396	74.4 kW	100 hp
Engine Power – ISO 14396 (DIN)	101 hp (metric)	
Bore	98 mm	4 in
Stroke	120 mm	5 in
Displacement	3.6 L	220 in ³
Biodiesel Capability	Up to B20 ¹	
Emissions	Meets Brazil MAR-1 emission standards equivalent to U.S. EPA Tier 3 and EU Stage IIIA.	

Net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system and alternator with engine speed at 2,200 rpm. Advertised power is tested per the specified standard in effect at the time of manufacture.

¹Cat engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels** up to 100% biodiesel FAME (fatty acid methyl ester)* or 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels.

*For use of blends higher than 20% biodiesel, consult your Cat dealer.

**Lower-carbon intensity fuels do not significantly reduce GHGs.

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

Boom	Reach 4.65 m (15'3")	
Stick	Reach 2.5 m (8'2")	
Bucket	GD 0.53 m ³ (0.69 yd ³)	
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 & Forces

Boom	Reach 4.65 m (15'3")	
Stick	Reach 2.5 m (8'2")	
Bucket	GD 0.53 m ³ (0.69 yd ³)	
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

STANDARD & OPTIONAL EQUIPMENT

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

	Standard	Optional
BOOM AND STICKS		
4.65 m (15'3") Reach boom	✓	
2.5 m (8'2") Reach stick		✓
3.0 m (9'8") Reach stick		✓
UNDERCARRIAGE AND STRUCTURES		
Center track guiding guard	✓	
Grease lubricated track link	✓	
Bottom guards	✓	
Travel motor guards	✓	
2.25 mt (4,960 lb) counterweight	✓	
Tie-down points	✓	
500 mm (20") triple grouser shoes		✓
600 mm (24") triple grouser shoes		✓
700 mm (28") triple grouser shoes with additional steps		✓
770 mm (30") triple grouser shoes with additional steps		✓
Swivel guard		✓
CAT TECHNOLOGY		
Cat Product Link	✓	
CAB		
Sound suppressed with viscous mounts	✓	
High-resolution 203 mm (8") LCD touchscreen monitor	✓	
Mechanically adjustable seat with headrest	✓	
Automatic bi-level air conditioner	✓	
Keyless push-to-start engine control	✓	
Floor-mounted adjustable consoles	✓	
1-button joystick	✓	
AM/FM radio with USB and auxiliary port	✓	
24V DC outlet	✓	
Cup holder and storage compartments	✓	
70/30 tempered glass windshield	✓	
Upper radial wiper with washer	✓	
Openable steel hatch	✓	
Dome light	✓	
Washable floor mat	✓	
1-slider joystick		✓

	Standard	Optional
ENGINE		
Three selectable modes: Power, Smart, Eco	✓	
52° C (125° F) high-ambient cooling capability	✓	
-18° C (0° F) cold start capability	✓	
Biodiesel capability up to B20	✓	
Electric fuel priming pump	✓	
Two-stage fuel filtration system	✓	
Sealed double-element air filter with precleaner	✓	
-25° C (-13° F) cold start capability		✓
ELECTRICAL SYSTEM		
750 CCA maintenance-free batteries (x2)	✓	
Electrical disconnect switch	✓	
LED left-side boom and chassis lights	✓	
LED right-side boom light		✓
SERVICE AND MAINTENANCE		
Grouped location of filters	✓	
Radiator screen	✓	
S-O-S ports	✓	
HYDRAULIC SYSTEM		
Electronic main control valve	✓	
Electronic control pump	✓	
Boom and stick regeneration circuits	✓	
Automatic hydraulic oil warm up	✓	
Automatic two-speed travel	✓	
High performance hydraulic return filter	✓	
Hammer lines		✓
Hammer floor pedal kit		✓
SAFETY AND SECURITY		
Anti-skid plating with countersunk bolts	✓	
Handrail and handhold	✓	
Lockable external tool/storage box	✓	
Mirror package	✓	
Signaling/warning horn	✓	
Hydraulic lockout lever	✓	
Rearview camera		✓
Swing alarm		✓
Travel alarm with cancel switch		✓

For more complete information on Cat products, dealer services and industry solutions, visit us on the web at www.cat.com.

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www.cat.com www.caterpillar.com



PEDJ0867-04
Replaces PEDJ0867-03
Build Number: 05D
(Taiwan, Eurasia, Thailand,
S Am [except Chile, Colombia],
Afr-ME, Indonesia)

