



316 GC

Hydraulic Excavator

If you need reliability, durability, high productivity, and low cost, the Cat® 316 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 316 GC allows you to be up to 15% more productive than with the previous 313D2 GC model.
- The C3.6 engine delivers more power, is more fuel-efficient, and meets U.S. EPA Tier 3 and EU Stage IIIA emission standards, equivalent to China Nonroad Stage III.
- Breakout force is increased and a redesigned swing drive gives you improved swing torque and smoothness, increasing your productivity.
- New main hydraulic pump is electronically controlled for greater efficiency and provides nearly twice the fluid flow of the previous model, improving control and productivity.
- Undercarriage and track design better meet high production needs and deliver excellent stability.
- A reinforced upper frame gives the 316 GC even greater durability.
- A wide range of bucket and tool options lets you take on more tasks.
- Reinforced bucket linkage pin allows for greater digging force.
- Reinforced stick with tailor-made rebar makes the 316 GC reliable enough to handle any tough application.

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 316 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.
- Most 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.



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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 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.

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

- Emergency engine and electrical shut offs are also at ground level.
- Handrails, steps and platforms 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
BOOM AND STICKS		
4.65 m (15'3") Reach boom	✓	
2.5 m (8'2") Reach stick		✓
3.0 m (9'10") Reach stick		✓
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	✓	
3-button joystick		✓
CAT TECHNOLOGY		
Cat® Product Link	✓	
ELECTRICAL SYSTEM		
750 CCA maintenance-free batteries (x2)	✓	
Electrical disconnect switch	✓	
LED left-side boom and chassis lights	✓	
LED cab light	✓	
Cat C3.6 single turbo diesel engine	✓	
LED right-side boom light		✓
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 pre-cleaner	✓	
-25 °C (-13 °F) cold start capability		✓

	Standard	Optional
HYDRAULIC SYSTEM		
Electronic main control valve, hammer ready	✓	
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		✓
SERVICE AND MAINTENANCE		
Grouped location of filters	✓	
Radiator screen	✓	
Scheduled Oil Sampling (S-O-S SM) ports	✓	
UNDERCARRIAGE AND STRUCTURES		
Center track guiding guard	✓	
Grease lubricated track link	✓	
Bottom guards	✓	
Travel motor guards	✓	
3.2 mt (7,055 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		✓

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Technical Specifications

Engine

Engine Model	C3.6	
Engine Power – ISO 9249:2007	77.3 kW	104 hp
Engine Power – ISO 14396:2002	82 kW	110 hp
Bore	98 mm	4 in
Stroke	120 mm	5 in
Displacement	3.6 L	220 in ³

- Power advertised is tested to specific standards in effect at 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.

Swing Mechanism

Swing Speed	11.5 r/min	
Maximum Swing Torque	43 kN·m	31,634 ft·lbf

Weights

Operating Weight	14 600 kg	32,200 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

Working Ranges and Forces

Boom	HD 4.65 m (15'3")	
Stick	HD 2.5 m (8'2")	
Bucket	GD 0.65 m³ (0.85 yd³)	
Maximum Digging Depth	5530 mm	18.1 ft
Maximum Reach at Ground Level	8180 mm	26.8 ft
Maximum Cutting Height	8500 mm	27.9 ft
Maximum Loading Height	6110 mm	20 ft
Minimum Loading Height	2020 mm	6.6 ft
Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	5330 mm	17.5 ft
Maximum Vertical Wall Digging Depth	4860 mm	15.9 ft
Bucket Digging Force – ISO	109 kN	24,500 lbf
Stick Digging Force – ISO	75 kN	16,860 lbf

Dimensions

Boom	HD 4.65 m (15'3")	
Stick	HD 2.5 m (8'2")	
Bucket	GD 0.65 m³ (0.85 yd³)	
Shipping Height – Top of Cab	2790 mm	9.1 ft
Handrail Height	2830 mm	9.3 ft
Shipping Length	7870 mm	25.8 ft
Tail Swing Radius	2350 mm	7.8 ft
Counterweight Clearance	900 mm	2.9 ft
Ground Clearance	430 mm	1.4 ft
Track Length	3750 mm	12.3 ft
Length to Center of Rollers	3040 mm	9.9 ft
Track Gauge	1990 mm	6.5 ft
Transport Width	2490 mm	8.2 ft
Length – Center of Rollers	3040 mm	10 ft

Hydraulic System

Main System – Maximum Flow	268 L/min	71 gal/min
Maximum Pressure – Equipment	35 000 kPa	5076 psi
Maximum Pressure – Travel	35 000 kPa	5076 psi
Maximum Pressure – Swing	25 900 kPa	3756 psi
Boom Cylinder – Bore	105 mm	4 in
Boom Cylinder – Stroke	1015 mm	40 in
Stick Cylinder – Stroke	1197 mm	47 in
Bucket Cylinder – Stroke	939 mm	37 in
Stick Cylinder – Bore	120 mm	5 in
Bucket Cylinder – Bore	100 mm	4 in

Machine Weight

Operating Weight	14 300 kg	31,600 lb
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