

316 GC

HYDRAULIC EXCAVATOR



Engine Power**ISO 14396**

82 kW (110 hp)

ISO 14396 (DIN)

111 hp (metric)

Operating Weight

14 600 kg (32,100 lb)

Meets Brazil MAR-1 and China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.



THE NEW CAT® 316 GC

MORE POWER. LOWER COSTS.
DESIGNED FOR DAILY WORK.

If you want reliability, durability, low cost, fast speed, and better performance, the Cat® 316 GC Hydraulic Excavator is your answer. This excavator is designed, built, and uniquely supported to put you on the fast track to prosperity.



CAT EXCAVATORS

Cat excavators offer you more choices than ever for your business.

- + MORE MODEL OPTIONS
- + MORE FUEL EFFICIENCY
- + MORE PRICE POINTS

Cat excavators help you make your business stronger, giving you new ways to get the most work done at the lowest cost so you can put more money in your pocket.



UP TO 15% GREATER PRODUCTIVITY

With improved engineering, more engine power, and increased digging force, the 316 GC delivers up to 15% greater productivity than previous models.

IMPROVED SWING CONTROL AND TORQUE

The new main hydraulic pump is electronically controlled for greater efficiency. This and other improvements in the redesigned swing drive give you improved swing torque and smoothness, increasing control and productivity.

HAMMER-READY VERSATILITY

A hammer/tool-ready valve is available for added versatility, and a variety of tool options lets you take on more tasks.

UP TO **20% LESS** MAINTENANCE COSTS



**LESS MAINTENANCE,
MORE PROFITABILITY**

NOTE: COMPARISON IS BASED ON THE 313D2 GC.

MULTIPLE MODES FOR MORE EFFICIENT WORK

BURN LESS FUEL

REDUCE FUEL CONSUMPTION

The engine and electrohydraulic system work in sync to help you move plenty of material without burning truckloads of fuel, and the C3.6 meets Brazil MAR-1 and China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA. An automatic engine control (AEC) system reduces RPM when hydraulic demand is low, reducing your fuel costs.

MATCH THE POWER TO THE JOB

Choose from three different working modes to match your fuel use and available power to the demands of the task.



SMART MODE

For power that is automatically adjusted to demand



ECO MODE

For the lowest fuel burn



POWER MODE

For the highest power and productivity





REDESIGNED SYSTEMS SAVE UP TO 20% ON MAINTENANCE BUILT TO SAVE YOU MONEY

FEWER FILTERS, LONGER LIFE

The 316 GC's hydraulic, fuel, and air filters all have increased service life. The hydraulic pilot filter has been eliminated, and the case drain filter has been replaced by a magnet and mesh.

REDESIGNED SWING DRIVE

The swing drive is now integrated with the hydraulic system, eliminating the need to check or refill a separate oil system.

SAVE ON REFILLS

The refill capacities for most fluids have been reduced with no change in performance or service life.

EASY REACH MEANS TIME SAVED

Almost all daily maintenance can be performed from ground level. Plus, nearly all major mechanical components are accessed from the ground or the service platform, and an automatic tensioner ensures you will never need to make belt adjustments.

EASILY MANAGE AND MAINTAIN ASSETS

Cat Product Link™ comes standard and makes it simple to manage your machines. Remotely monitor maintenance alerts, fuel use, hours, and machine location, viewing the data anytime, anywhere with the online VisionLink® system. Use Cat technology to make informed decisions that will simplify maintenance, boost productivity, lower costs, and improve safety and security on your jobsite.



ENGINEERED FOR UNCOMPROMISING TOUGHNESS

RELIABILITY AND DURABILITY

DESIGNED TO PRODUCE

Undercarriage and track design better meet high production needs and deliver excellent stability. A center track guiding guard prevents track derailment.

REINFORCED STRUCTURES

A reinforced upper frame – with great plate thickness and even stronger welds – gives the 316 GC even greater durability. The boom design has been optimized and strengthened, with rebar reinforcements added to the bottom of the stick nose for greater durability.

GREATER DIGGING FORCE

Greater hydraulic power and more digging force, helping you work more efficiently.

COMFORTABLE AND SIMPLE TO USE FOR ANY OPERATOR

NEW AND IMPROVED CAB

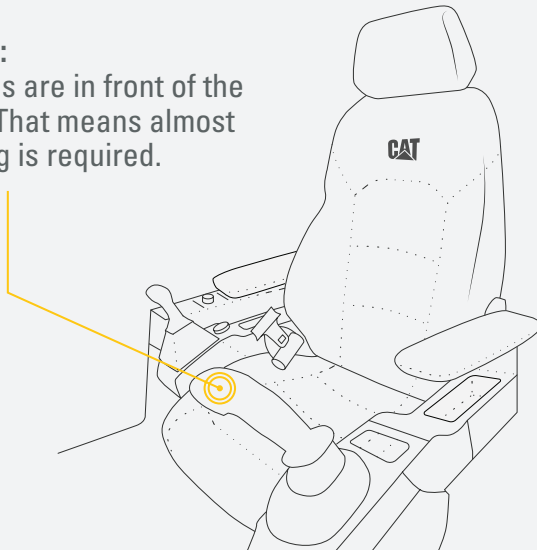


WE'VE GOT **YOUR BACK.**

BACK PAIN IS ONE OF THE MOST COMMON REASONS PEOPLE MISS WORK.*

NEW CAB:

All controls are in front of the operator. That means almost no twisting is required.



*SOURCE: [HTTPS://WWW.NINDS.NIH.GOV/DISORDERS/PATIENT-CAREGIVER-EDUCATION/FACT-SHEETS/LOW-BACK-PAIN-FACT-SHEET](https://www.ninds.nih.gov/disorders/patient-caregiver-education/fact-sheets/low-back-pain-fact-sheet)

LARGE, USER-FRIENDLY TOUCHSCREEN

Navigate quickly through simplified control menus on the high-resolution 203 mm (8 in) touchscreen monitor.

SIMPLE MAIN CONTROLS

One-button joysticks make control easy for any operator. Joystick response and gain are adjustable, and you choose what functions to assign to the button on each stick.

COMFORTABLE CLIMATE

Automatic climate control keeps you comfortable all day long and is controlled from the touchscreen. Airflow louvers throughout the cab ensure excellent cooling, heating, and window defrosting.

LOOK OUT FOR YOUR PEOPLE AND EQUIPMENT

BUILT-IN SAFETY

HIGH-VISIBILITY DESIGN

The newly redesigned cab has larger tempered glass windows and smaller cab posts, providing excellent visibility into the trench and in every direction. Bright exterior LED lights make it easier to see and be seen on the jobsite. An optional rearview camera ensures you have total visibility from the cab.

SAFER ACCESS

Access daily maintenance points and emergency engine and electrical shutoffs from ground level. Additional steps and handrails allow easier and safer upper platform access.

EMERGENCY EXITS

In an emergency, the operator can exit through either the rear window or the steel top hatch.



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/SIPSTRIPSFALLS.PPT](https://www.osha.gov/dte/grant_materials/fy07/sh-16625-07/slipstripsfalls.ppt)

INCREASE YOUR PRODUCTIVITY AND PROFIT WITH CAT ATTACHMENTS

You can easily expand the performance of your 316 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



SEVERE DUTY BUCKETS



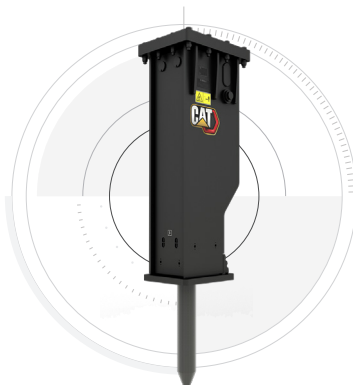
PREVENT HAMMER WEAR AND TEAR

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.

VIBRATORY PLATES



HYDRAULIC HAMMERS



TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

ENGINE		
Engine Model	Cat® C3.6	
Engine Power		
ISO 14396	82 kW	110 hp
ISO 14396 (DIN)	111 hp (metric)	
Net Power		
ISO 9249	77.3 kW	104 hp
ISO 9249 (DIN)	105 hp (metric)	
Bore	98 mm	4 in
Stroke	120 mm	5 in
Displacement	3.6 L	220 in³

- Meets Brazil MAR-1 and China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- 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.
- No engine power derating required below 3,000 m altitude.
- Engine speed at 2,200 rpm.

HYDRAULIC SYSTEM		
Main System – Maximum Flow – Implement	268 L/min	71 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	120 mm	5 in
Stick Cylinder – Stroke	1197 mm	47 in
Bucket Cylinder – Bore	100 mm	4 in
Bucket Cylinder – Stroke	939 mm	37 in

SWING MECHANISM		
Swing Speed	11.5 rpm	
Maximum Swing Torque	43 kN·m	31,634 lbf·ft

WEIGHTS		
Operating Weight	14 600 kg	32,100 lb
• Long undercarriage, HD Reach boom, HD R2.5 (8'2") stick, GD 0.65 m³ (0.85 yd³) bucket, 600 mm (24") triple grouser shoes, and 3.2 mt (7,050 lb) counterweight.*		
Operating Weight	14 300 kg	31,500 lb
• Long undercarriage, HD Reach boom, HD R2.5 (8'2") stick, GD 0.65 m³ (0.85 yd³) bucket, 500 mm (20") triple grouser shoes, and 3.2 mt (7,050 lb) counterweight.*		

*Includes boom and stick with HP/Aux lines

SERVICE REFILL CAPACITIES		
Fuel Tank	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	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)	2780 mm	9'1"
Handrail Height	2830 mm	9'3"
Shipping Length	7770 mm	25'6"
Tail Swing Radius	2290 mm	7'6"
Counterweight Clearance	900 mm	2'11"
Ground Clearance	430 mm	1'5"
Track Length	3750 mm	12'4"
Length to Center of Rollers	3040 mm	10'0"
Track Gauge	1990 mm	6'6"
Transport Width – 500 mm (20") shoes	2490 mm	8'2"
Transport Width – 600 mm (24") shoes	2590 mm	8'6"
Transport Width – 700 mm (28") shoes	2690 mm	8'10"
Transport Width – 7700 mm (30") shoes	2760 mm	9'1"

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	18'2"
Maximum Reach at Ground Line	8180 mm	26'10"
Maximum Cutting Height	8500 mm	27'11"
Maximum Loading Height	6110 mm	20'1"
Minimum Loading Height	2020 mm	6'8"
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	5330 mm	17'6"
Maximum Vertical Wall Digging Depth	4860 mm	15'11"
Bucket Digging Force (ISO)	109 kN	24,500 lbf
Stick Digging Force (ISO)	75 kN	16,860 lbf

STANDARD & OPTIONAL EQUIPMENT

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

BOOMS AND STICKS	STANDARD	OPTIONAL
4.65 m (15'3") Reach boom	●	
2.5 m (8'2") Reach stick		●
3.0 m (9'10") Reach stick		● ¹
CAB	STANDARD	OPTIONAL
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	●	
1-slider joystick		●
AM/FM radio with USB and AUX 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	●	
CAT TECHNOLOGIES	STANDARD	OPTIONAL
Cat® Product Link™	●	
ELECTRICAL SYSTEM	STANDARD	OPTIONAL
750 CCA maintenance-free batteries (x2)	●	
Electrical disconnect switch	●	
LED left-side boom and chassis lights	●	
LED right-side boom light		● ¹
LED cab light	●	
ENGINE	STANDARD	OPTIONAL
Cat C3.6 single turbo diesel engine	●	
Three selectable modes: Power, Smart, Eco	●	
52°C (125°F) high-ambient cooling capability	●	
-18°C (0°F) cold start capability	● ²	
-25°C (-13°F) cold start capability		● ³
Biodiesel capability up to B20	●	
Electric fuel priming pump	●	
Two-stage fuel filtration system	●	
Sealed double-element air filter with precleaner	●	

HYDRAULIC SYSTEM	STANDARD	OPTIONAL
Electronic main control valve	●	
Electronic control pump	●	
Boom and stick regeneration circuits	●	
Automatic hydraulic oil warm up	●	
Automatic two-speed travel	●	
Hammer lines		●
Hammer floor pedal kit		●
High performance hydraulic return filter	●	
SAFETY AND SECURITY	STANDARD	OPTIONAL
Anti-skid plating with countersunk bolts	●	
Handrail and handhold	●	
Lockable external tool/storage box	●	
Mirror package	●	
Rearview camera		●
Signaling/warning horn	●	
Swing alarm		●
Hydraulic lockout lever	●	
Travel alarm with cancel switch		● ⁴
SERVICE AND MAINTENANCE	STANDARD	OPTIONAL
Grouped location of filters	●	
Radiator screen	●	
Scheduled Oil Sampling (S-O-S SM) ports	●	
UNDERCARRIAGE AND STRUCTURES	STANDARD	OPTIONAL
Grease lubricated track link	●	
500 mm (20") triple grouser shoes		● ⁵
600 mm (24") triple grouser shoes		● ¹
700 mm (28") triple grouser shoes		● ⁶
770 mm (30") triple grouser shoes		● ⁷
Center track guiding guard	●	
Bottom guards	●	
Travel motor guards	●	
Swivel guard		● ⁸
3.2 mt (7,055 lb) counterweight	●	
Tie-down points	●	

¹ All regions except Taiwan

² All regions except Eurasia

³ Standard in Eurasia; optional in Africa, Middle East, South America (excluding Brazil)

⁴ Standard in South America

⁵ All regions except Brazil

⁶ All regions except Brazil, Taiwan, and Africa, Middle East

⁷ All regions except Taiwan, and Africa, Middle East

⁸ Standard in South America and Eurasia

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, refer to the Technical Specifications brochures for the 316 GC available at www.cat.com or your Cat dealer.



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

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www.cat.com www.caterpillar.com

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Replaces PEDJ0890-00
Build Number: 05B
(Afr-ME, Eurasia, Taiwan,
S Am, SE Asia)

