

316 GC

HYDRAULIC EXCAVATOR



Engine Power (ISO 14396:2002)	74.5 kW (100 hp)
Operating Weight	14 400 kg (31,750 lb)

Engine meets emission standards equivalent to U.S. EPA Tier 3, EU Stage IIIA, Japan 2006 (Tier 3), and China Nonroad Stage III.



THE 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 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.

- + LOWER OPERATING AND MAINTENANCE COSTS
- + MORE FUEL EFFICIENCY
- + MORE IN-CAB COMFORT

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.



HIGH PERFORMANCE

With increased drawbar pull and greater stability, the 316 GC delivers improved performance than previous models.

IMPROVED SWING CONTROL AND TORQUE

The updated 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 lets you take on more tasks.

UP TO **25% LESS** MAINTENANCE COSTS



LESS MAINTENANCE, MORE PROFITABILITY

NOTE: COMPARISON IS BASED ON THE 313D2

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 C4.4 engine meets emission standards equivalent to U.S. EPA Tier 3, EU Stage IIIA, Japan 2006 (Tier 3) and China Nonroad Stage III. An Automatic Engine Control (AEC) system reduces RPM when hydraulic demand is low, reducing your fuel costs.



ECO MODE

For the lowest fuel burn



STANDARD MODE

For the highest power and productivity

MATCH THE POWER TO THE JOB

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





REDESIGNED SYSTEMS SAVE UP TO 25% ON MAINTENANCE

BUILT TO SAVE YOU MONEY

FEWER FILTERS, LONGER LIFE

The 316 GC's hydraulic filters 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 The hydraulic pilot filter has been eliminated, and the case drain filter has been replaced by a magnet and mesh.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

Remotely monitor maintenance alerts, 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.

CAB TAKES

THE HARD OUT OF WORK

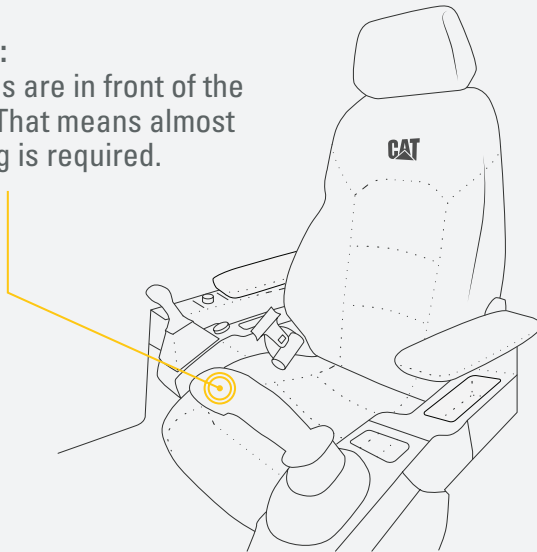


WE'VE GOT **YOUR BACK.**

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 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 redesigned cab has larger tempered glass windows and smaller cab posts, providing excellent visibility into the trench and in every direction. Bright exterior 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/SLIPSTRIPSFALLS.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



HEAVY DUTY BUCKETS



PREVENT HAMMER WEAR AND TEAR

Protect your hammer from overworking. Auto hammer stop warns you after 15 seconds of continuous firing and then automatically shuts it off after 30 seconds – all to prevent wear and tear on the attachment and excavator.

HYDRAULIC HAMMERS



TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

ENGINE		
Engine Model	Cat C4.4	
Net Power – ISO 9249	68.2 kW	91 hp
Engine Power – ISO 14396	74.5 kW	100 hp
Bore	105 mm	4 in
Stroke	127 mm	4 in
Displacement	4.4 L	268.5 in ³

- The 316 GC emits equivalent to U.S. EPA Tier 3, EU Stage IIIA, Japan 2006 (Tier 3), and China Nonroad Stage III emission standards.
- No engine power derating required below 2,300 m (7,546 ft) altitude.
- Advertised power is tested per the specified standard in effect at the time of manufacture.

HYDRAULIC SYSTEM		
Main System – Maximum Flow – Implement	247 L/min	65 gal/min
Maximum Pressure – Equipment – Implement	35 000 kPa	5,076 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	25 900 kPa	3,756 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

SWING MECHANISM		
Swing Speed	11.5 rpm	
Maximum Swing Torque	34.1 kN·m	25,151 lbf·ft

WEIGHTS		
Operating Weight	14 400 kg	31,750 lb
• Long undercarriage, HD 4.65 m (15'3") boom, HD R2.5 m (8'2") stick, HD 0.76 m ³ (0.99 yd ³) bucket, and 500 mm (20") TG shoes.		

SERVICE REFILL CAPACITIES		
Fuel Tank	237 L	63 gal
Cooling System	18 L	4.8 gal
Engine Oil	16 L	4.2 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	HD 0.76 m ³ (0.99 yd ³)	
Shipping Height	2830 mm	9'3"
Handrail Height	2840 mm	9'4"
Shipping Length	7870 mm	25'10"
Tail Swing Radius	2350 mm	7'9"
Counterweight Clearance	930 mm	3'1"
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"

WORKING RANGES AND FORCES		
Boom	HD 4.65 m (15'3")	
Stick	HD 2.5 m (8'2")	
Bucket	HD 0.76 m ³ (0.99 yd ³)	
Maximum Digging Depth	5580 mm	18'4"
Maximum Reach at Ground Line	8220 mm	27'00"
Maximum Cutting Height	8520 mm	27'11"
Maximum Loading Height	6060 mm	19'11"
Minimum Loading Height	1970 mm	6'6"
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	5380 mm	17'8"
Maximum Vertical Wall Digging Depth	5050 mm	16'7"
Bucket Digging Force (ISO)	98.4 kN	22,120 lbf
Stick Digging Force (ISO)	68.8 kN	15,470 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") HD Reach boom	✓	
2.5 m (8'2") HD Reach stick	✓	
CAB	STANDARD	OPTIONAL
ROPS Ready	✓	
203 mm (8") D6C8 touchscreen monitor	✓	
Openable tempered front upper windshield with assist device and removable tempered lower windshield	✓	
Mechanical suspension comfort seat with head rest and arm rest angle adjustment	✓	
51 mm (2") orange seat belt	✓	
Fixed left-side console	✓	
Automatic bi-level air conditioner with pressurized function	✓	
Openable steel hatch	✓	
Washable floor mat	✓	
24V DC outlet	✓	
Dome interior lights, coat hook, cup holder, console storage, rear storage	✓	
HVAC (monitor control) and radio	✓	
Washer line for radial wiper	✓	
CAT TECHNOLOGIES	STANDARD	OPTIONAL
Cat Product Link™	✓	
ELECTRICAL SYSTEM	STANDARD	OPTIONAL
Maintenance free battery	✓	
Centralized electrical disconnect switch	✓	
Light, storage box and front	✓	
ENGINE	STANDARD	OPTIONAL
Two selectable modes: Standard, Eco	✓	
52°C (125°F) high-ambient cooling capability	✓	
One touch low idle with automatic engine speed control (AEC)	✓	
Secondary engine shutoff switch	✓	
Biodiesel capability up to B20	✓	
Two-stage fuel filtration system	✓	

HYDRAULIC SYSTEM	STANDARD	OPTIONAL
Electronic main control valve	✓	
Electronic control pump	✓	
Element type main hydraulic filter	✓	
Automatic two-speed travel	✓	
Hammer lines		✓
Hammer floor pedal kit		✓
SAFETY	STANDARD	OPTIONAL
Rearview mirrors, handrail mounted and cab hand hold mounted	✓	
Bolt free service platform with anti-skid plate	✓	
Neutral lever (lock out) for all controls	✓	
Ground level accessible secondary engine shutoff switch in cab	✓	
Rearview camera		✓
Signaling/warning horn	✓	
SERVICE AND MAINTENANCE	STANDARD	OPTIONAL
Grouped location of filters	✓	
Radiator screen	✓	
S•O•S SM sampling ports	✓	
UNDERCARRIAGE AND STRUCTURES	STANDARD	OPTIONAL
500 mm (20") triple grouser shoes	✓	
Idler section track guiding guards	✓	
HD roller	✓	
HD upperframe	✓	
Casting power link	✓	
Additional fixed side cover	✓	
Idlers	✓	
Towing eye on base frame	✓	
3.2 mt (7,055 lb) counterweight	✓	

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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