

317 GC

HYDRAULIC EXCAVATOR



Net Power – ISO 9249
Operating Weight
Maximum Digging Depth

89 kW (119 hp)
17 200 kg (38,000 lb)
6400 mm (21 ft)



317 GC

HYDRAULIC EXCAVATOR

The Cat® 317 GC Excavator offers job-matched performance and world-class versatility. A large working envelope and expanded work tool offering help you complete your work quickly and efficiently. Combined with fuel-saving features, longer maintenance intervals, and simplified maintenance points, the 317 GC provides the reliability you expect at the low cost-per-hour you need.



UP TO 10% LOWER FUEL CONSUMPTION

Two power modes and an updated control valve and electro-hydraulic pump minimize fuel use and increase engine efficiency.

UP TO 20% LOWER MAINTENANCE COSTS

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

MAXIMIZE VERSATILITY

A large working envelope and expanded work tool offering help you complete your work quickly and efficiently. The weight of the machine makes it easily transportable from jobsite to jobsite.

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.
- The standard integrated vehicle health management system alerts the operator with service guidance and parts needed to enhance uptime.

Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area. Build Number: 07E

FUEL SAVING, JOB MATCHED PERFORMANCE

- Use up to 10% less fuel than the 316F to keep you moving and productive on the jobsite.
- The advanced hydraulic system provides the optimum balance of power and efficiency while providing the control needed for precise digging requirements.
- Smart mode meets your power needs by automatically matching engine and hydraulic power to digging conditions.
- Get higher production in demanding applications, easier penetration into piles, and faster cycle times with Cat Advansys™ bucket tips. Quickly change tips with a simple lug wrench instead of a hammer or special tool, improving safety and uptime.
- Auxiliary hydraulic options give you the versatility to use a wide range of Cat attachments.
- The Cat C3.6 engine meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Product Link™ comes standard so you can remotely monitor machine health, location, hours, and fuel consumption on-demand through the VisionLink® online interface.



LOWER MAINTENANCE COSTS



- Expect up to 20% less maintenance costs than the 316F.
- Quickly check and service your machine with all daily maintenance points accessible from ground level.
- Check the engine oil level quickly and safely from the ground. Fill and check engine oil on top of the machine with a conveniently located second dipstick.
- The hydraulic oil filter provides improved filtration performance, anti-drain valves to keep oil clean when the filter is replaced, and longer life with a 3,000-hour replacement interval – 50% longer than previous filter designs.
- Track your machine's filter life and maintenance intervals on the in-cab monitor.
- Boost productivity with proactive service reminders. The Integrated Vehicle Health Management system alerts the operator with step-by-step service guidance along with parts needed so you don't experience any unnecessary downtime.
- Scheduled Oil Sampling (S-O-SSM) ports are located at ground level, simplifying maintenance and allowing for quick, easy extraction of fluid samples for analysis.

WORLD-CLASS VERSATILITY



- Do more with one machine. The 317 GC's expanded work tool offering helps you tackle your jobsite's various applications with ease.
- Work efficiently with the 317 GC's large working envelope. Move more material without having to reposition the machine.
- Easily move the excavator from jobsite to jobsite. The 317 GC's weight makes it easily transportable without compromising on the performance you need.



WORK IN COMFORT

- Increase operator productivity with an updated, larger cab.
- The cab has a wide seat that adjusts for operators of all sizes.
- Advanced viscous mounts reduce cab vibration.
- Control the excavator comfortably with easy-to-reach controls, all located in front of you.
- Stow your equipment with plenty of in-cab storage beneath and behind the seat, overhead, and in the consoles.
- Use the standard radio's USB ports and Bluetooth® technology to connect personal devices and make hands-free calls.



RELIABLE, WHATEVER THE ENVIRONMENT



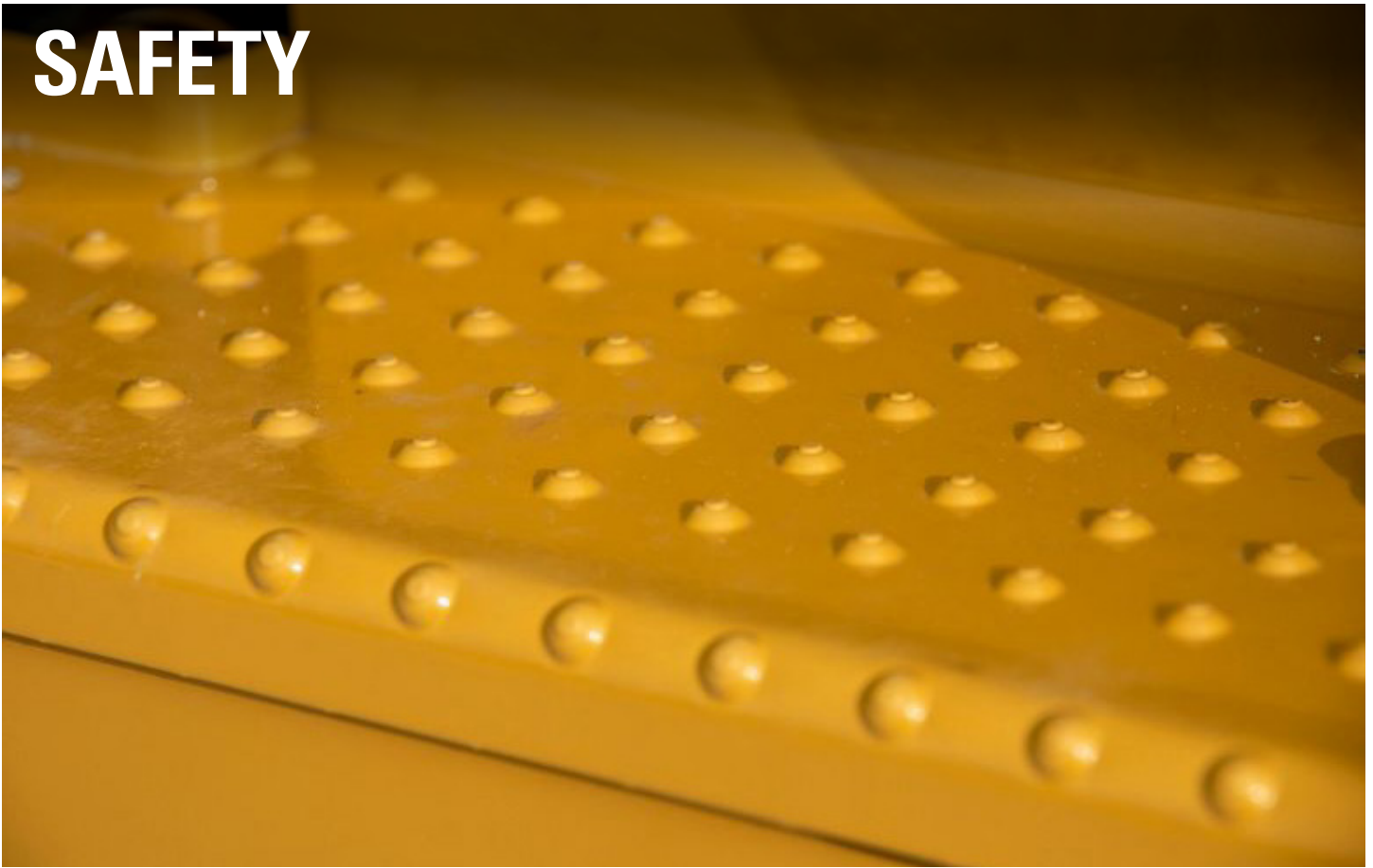
- Don't let the temperature stop you from working. The 317 GC has a standard high-ambient temperature capability of 52° C (125° F) without derate and an optional cold-start capability of -25° C (-13° F).
- Automatic hydraulic warm-up speeds up hydraulic oil warming in cold temperatures and helps prolong the life of components.
- Grease sealed between track pins and bushings reduces travel noise and prevents debris from entering to increase undercarriage life.
- The track guiding guard helps keep the excavator track aligned when traveling and working on slopes.
- The sloped track frame prevents mud and debris accumulation, helping reduce the risk of track damage.

SIMPLE TO OPERATE

- Start the engine with the push of a button, a Bluetooth key fob, or the unique Operator ID function.
- Program your preferred power mode and joystick settings using your operator ID. The excavator will automatically remember your selections.
- Navigate quickly on the standard high-resolution touchscreen monitor or with the aid of the jog dial control.
- The Cat PL161 attachment locator is a Bluetooth device designed to let users know where their attachments are across all worksites, reduce the number of lost attachments, and plan for attachment maintenance and replacement. The PL161 integrates easily into VisionLink for full fleet management of machines and attachments from one smartphone or tablet dashboard to view location and tracking details.
- Save more time and energy with the available work tool recognition feature. A simple shake of the attached tool confirms its identity and ensures all the attachment settings (pressure, flow, and dimensions) are correct so you can work quickly and efficiently.
- Not sure how a function works or how to maintain your machine? Simply access the operator's manual through the touchscreen monitor.
- 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.



SAFETY



- Access all daily maintenance points from ground level – no need for you to climb on top of the machine.
- The standard Rollover Protective Structure (ROPS) cab meets ISO 12117-2:2008 requirements.
- The standard hydraulic lockout lever isolates all hydraulic and travel functions in the lowered position.
- A ground-level shutoff switch stops all fuel to the engine and shuts down the machine when activated.
- A rearview and right-side-view camera are standard, increasing safety and visibility.
- The service platform design provides easy, safe, and quick access to the upper service platform. Prevent slipping with the anti-skid punch plate on the platform steps.
- Brightly colored seatbelts allow easy recognition of properly utilized safety restraints.
- Enhance jobsite safety. Add a swing alarm to alert people when you're rotating from trench to stockpile and back again.
- Make service work easier and safer with optional inspection lighting. With the flip of a switch, lights will illuminate the engine, pump, battery, and radiator compartments to enhance visibility.

- The Cat® C3.6 engine meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- The 317 GC emits up to 5% less CO₂ than the previous 316F*.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels***up to: 20% biodiesel FAME (fatty acid methyl ester)** or 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels. Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations”(SEBU6250) for details.
- Auto Engine Speed Control reduces unnecessary fuel burn and greenhouse gas emissions by allowing the engine to automatically go into idle mode when the machine is not working.
- Cat S-O-S Services helps reveal excessive wear, contaminated fluids or other “unseen” issues that can shorten component life. In many cases, you can extend oil and coolant change intervals by using fluid monitoring. Consult your Cat dealer or the machine’s operation and maintenance manual for more information.
- Extended maintenance intervals not only reduce downtime but decrease the amount of fluid and filters that are replaced over the life of the machine.
- Cat VisionLink displays the CO₂ emissions for monitored assets, calculated by fuel type for the Runtime Fuel Burned each day in a selected date range.
- Remote Flash minimizes downtime and maintenance time while keeping your asset running with maximum efficiency. Alerts for machine updates are sent virtually from your Cat dealer and updates can be deployed without a dealer technician needing to be onsite.
- Remote Troubleshoot decreases maintenance time and keeps your machine running with maximum efficiency by allowing your Cat dealer to virtually test the machine while working. Once a problem is identified, a technician can fix it the first time, saving time and money.
- Cat® Reman parts are a sustainable choice. New Cat parts are designed with the potential to have more than one life, so Cat Reman parts are truly remanufactured — not just repaired, rebuilt or reconditioned. Because the process ensures the latest design changes are incorporated into Cat Reman parts, you get like new quality and outstanding performance at lower cost.

****All comparisons to 316F. Productivity, fuel and CO₂ emissions vary by application. CO₂ emissions calculations based on a reference work cycle using 2.2 U.S. gallons per hour of #2 U.S. diesel fuel based. Applies IPCC2006 methodology using U.S. EPA Emissions Hub emission factors. Includes DEF (diesel exhaust fluid) related CO₂. Fuel measurements are at 15° C. Estimated average fuel consumption improvements are based on tests or Product Link data where available. Productivity improvements are based on test data.***

*****Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).***

******Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.***



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 machine by utilizing any of the variety of Cat attachments. Each Cat attachment is designed to fit the weight and horsepower of Cat excavators for improved performance, safety, and stability.

BUCKETS



HYDRAULIC HAMMERS



AUTO HAMMER STOP

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.

QUICK COUPLERS



GRAPPLES



SHEARS



MULCHERS

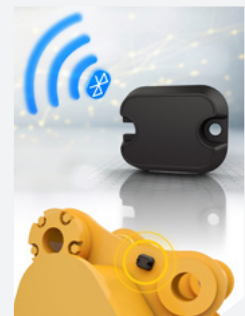


VIBRATORY PLATE COMPACTORS



ATTACHMENT TRACKING MADE EASY

The Cat PL161 Attachment Locator is a Bluetooth device that makes finding your attachments and other gear quick and easy. The excavator's onboard Bluetooth reader or Cat app on your phone will locate the device automatically.



Save more time and energy with the available work tool recognition feature. A simple shake of the attached tool confirms its identity; it also ensures all the attachment settings are correct so you can get to work quickly and efficiently.

TECHNICAL SPECIFICATIONS

Engine

Net Power – ISO 9249	89 kW	119 hp
Engine Model	Cat C3.6	
Engine Power – ISO 14396	90 kW	121 hp
Engine Power – ISO 14396 (DIN)	122 hp (metric)	
Net Power – ISO 9249 (DIN)	121 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 U.S. EPA Tier 4 Final and EU Stage V emission standards.	

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 2,400 rpm. Advertised power is tested per the specified standard in effect at the time of manufacture.

¹Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels** up to: 20% biodiesel FAME (fatty acid methyl ester)* or 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels. Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations” (SEBU6250) for details.

*Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).

**Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

Hydraulic System

Main System – Maximum Flow	296 L/min (78 gal/min)	
Maximum Pressure – Equipment	35 000 kPa	5,076 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	25 800 kPa	3,741 psi

Swing Mechanism

Swing Speed	8.7 r/min	
Maximum Swing Torque	61 kN-m	44,991 ft-lbf

Weights

Operating Weight	17 200 kg	38,000 lb
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Service Refill Capacities

Fuel Tank Capacity	271 L	71.6 gal
Cooling System	22 L	5.8 gal
Engine Oil	11 L	2.9 gal
Final Drive – Each	6 L	1.6 gal
Hydraulic System – Including Tank	94 L	24.8 gal
Hydraulic Tank	87 L	23 gal
DEF Tank	22 L	5.9 gal

Dimensions

Boom	Reach 5.1 m (16'9")	
Stick	Reach R2.9 m (9'6")	
Bucket	GD 0.76 m ³ (0.99 yd ³)	
Shipping Height – Top of Cab	2930 mm	9.6 ft
Handrail Height	2940 mm	9.6 ft
Shipping Length	8570 mm	28.1 ft
Tail Swing Radius	2500 mm	8.2 ft
Counterweight Clearance	1010 mm	3.3 ft
Ground Clearance	430 mm	1.4 ft
Track Length	3970 mm	13 ft
Length to Center of Rollers	3170 mm	10.4 ft
Track Gauge	1990 mm	6.5 ft
Transport Width	2590 mm	8.5 ft

Working Ranges & Forces

Boom	Reach 5.1 m (16'9")	
Stick	Reach R2.9 m (9'6")	
Bucket	GD 0.76 m ³ (0.99 yd ³)	
Maximum Digging Depth	6400 mm	21 ft
Maximum Reach at Ground Level	9010 mm	29.6 ft
Maximum Cutting Height	8900 mm	29.1 ft
Maximum Loading Height	6280 mm	20.6 ft
Minimum Loading Height	1990 mm	6.5 ft
Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	6170 mm	20.2 ft
Maximum Vertical Wall Digging Depth	4960 mm	16.3 ft
Minimum Working Equipment Radius	2940 mm	9.6 ft
Bucket Digging Force – ISO	123 kN	27,650 lbf
Stick Digging Force – ISO	75 kN	16,860 lbf

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.9 hg of refrigerant which has a CO₂ equivalent of 1.287 metric tonnes.

STANDARD & OPTIONAL EQUIPMENT

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

	Standard	Optional
BOOM AND STICKS		
5.1 m (16'9") Reach Boom	✓	
2.6 m (8'6") Reach stick		✓
2.9 m (9'6") Reach stick		✓
2.9 m (9'6") Thumb ready stick		✓
3.1 m (10'2") Reach stick		✓
UNDERCARRIAGE AND STRUCTURES		
Grease lubricated track link	✓	
ISO 15818:2017 Tie down points on base frame	✓	
2500 mm (8'2") blade	✓	
2600 mm (8'6") blade	✓	
2700 mm (8'10") blade	✓	
500 mm (20") triple grouser track shoes		✓
600 mm (24") triple grouser track shoes		✓
600 mm (24") rubber track shoes		✓
700 mm (28 in) triple grouser track shoes		✓
790 mm (31") triple grouser track shoes		✓
3.05 mt (6,720 lb) counterweight		✓
3.57 mt (7,870 lb) counterweight		✓
CAB		
ROPS	✓	
Comfort Cab: mechanical suspension seat, 203 mm (8") LCD touchscreen monitor	✓	
CAT TECHNOLOGIES		
VisionLink	✓	
Remote Flash	✓	
Remote Troubleshoot	✓	
VisionLink Productivity		✓
ENGINE		
Cat C3.6 single turbo diesel engine	✓	
Two selectable modes: Power, Smart	✓	
Automatic engine speed control	✓	
Automatic engine shutdown	✓	
Electric fuel priming pump	✓	
Electric cooling fans	✓	
Single fuel filtration system with water separator and indicator	✓	
Sealed double element air filter with integrated precleaner	✓	
Biodiesel capability up to B20	✓	
-18° C (-0° F) cold start capability		✓
-25° C (-13° F) cold start capability		✓

	Standard	Optional
ELECTRICAL SYSTEM		
Maintenance free battery	✓	
LED chassis light and left-side boom light	✓	
Programmable time-delay LED working lights	✓	
Centralized electrical disconnect switch	✓	
LED chassis light, right-side boom light and cab lights		✓
SERVICE AND MAINTENANCE		
Side entry to service platform	✓	
Grouped engine oil and fuel filters	✓	
Ground-level engine oil dipstick	✓	
S-O-S ports	✓	
Integrated vehicle health management system		✓
HYDRAULIC SYSTEM		
Boom and stick regeneration circuits	✓	
Auto hydraulic warm up	✓	
Auto two-speed travel	✓	
Electric main control valve	✓	
Boom and stick drift reduction valve	✓	
Boom and stick lowering check valve	✓	
Element-type main hydraulic filter	✓	
Single-type electronic main pump	✓	
SAFETY AND SECURITY		
Rear and right-side-view cameras	✓	
Ground-level engine shutoff switch	✓	
Service platform with anti-skid plate and countersunk bolts	✓	
Signaling/warning horn	✓	
Hydraulic lock out lever	✓	
Auto hammer stop	✓	
Swing alarm		✓
Inspection lighting		✓

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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AEXQ3156-03
Replaces AEXQ3156-02
Build Number: 07E
(N Am, Europe)

