



Cat[®] 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.

Not all features are available in all regions. Consult your Cat dealer for specific configurations available in your region.

Fuel Saving Performance Matched to the Job

- Use up to 10 percent 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 percent 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 new 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 percent longer than previous filter designs.
- Track your machine's filter life and maintenance intervals on the in-cab monitor.
- 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.



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Work in Comfort in the All-New Cab

- Increase operator productivity with an all-new, 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 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, smartphone app, 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 that makes finding your attachments and other gear quick and easy. The Cat App on your phone will locate the device automatically.
- Not sure how a function works or how to maintain your machine? Simply access the operator's manual through the touchscreen monitor.

Safety

- Access all daily maintenance points from ground level – no need for you to climb on top of the machine.
- The standard 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.
- New 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.

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
BOOMS AND STICKS			HYDRAULIC SYSTEM		
5.1 m (16'9") Reach boom	✓		Boom and stick regeneration circuits	✓	
R2.6 m (8'6") stick		✓	Automatic hydraulic warm up	✓	
R2.9 m (9'6") stick		✓	Automatic two-speed travel	✓	
R2.9 m (9'6") Thumb Ready stick		✓ ¹	Electronic main control valve	✓	
R3.1 m (10'2") stick		✓ ¹	Boom and stick drift reduction valve	✓	
CAB			Boom and stick lowering check valves	✓ ²	
ROPS, sound suppression	✓		Single type electronic main pump	✓	
Comfort Cab: mechanical suspension seat, 203 mm (8") LCD touchscreen monitor	✓		Element type main hydraulic filter	✓	
CAT TECHNOLOGY			SAFETY AND SECURITY		
Cat Product Link	✓		Rear and right-side-view cameras	✓	
Auto hammer stop	✓		Hydraulic lockout lever	✓	
ELECTRICAL SYSTEM			Ground level engine shutoff switch	✓	
Maintenance free battery	✓		Service platform with anti-skid plate and countersunk bolts	✓	
LED chassis light and left-side boom light	✓		Signaling/warning horn	✓	
LED right-side boom light and cab lights		✓	SERVICE AND MAINTENANCE		
Programmable time-delay LED working lights	✓		Grouped engine oil and fuel filters	✓	
Centralized electrical disconnect switch	✓		Side entry to service platform	✓	
ENGINE			Ground level engine oil dipstick	✓	
C3.6 Tier 4 Final/Stage V diesel engine	✓		S•O•S sampling ports	✓	
Two selectable modes: Power, Smart	✓		UNDERCARRIAGE AND STRUCTURES		
Automatic engine speed control	✓		Grease lubricated track link	✓	
Automatic engine shutdown	✓		Center track guiding guards	✓	
-18°C (0°F) cold start capability		✓	Bottom guards	✓	
-25°C (-13°F) cold start capability		✓	Travel motor guards	✓	
Electric fuel priming pump	✓		ISO 15818:2017 tie down points on base frame	✓	
Electric cooling fans	✓		500 mm (20") triple grouser shoes		✓ ²
Single fuel filtration system with water separator and indicator	✓		600 mm (24") triple grouser shoes		✓
Sealed double element air filter with integrated precleaner	✓		600 mm (24") rubber track shoe		✓ ¹
Biodiesel capability up to B20	✓		700 mm (28") triple grouser shoes with additional steps		✓
			3.28 mt (7,230 lb) counterweight		✓ ¹
			3.05 mt (6,720 lb) counterweight		✓

¹ North America only

² Europe only

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 and additional regional offerings, refer to the Technical Specifications brochure available at www.cat.com or your Cat dealer.

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Technical Specifications

Engine

Engine Model	Cat C3.6	
Engine Power – ISO 14396:2002	90 kW	121 hp
Net Power – ISO 9249:2007	89 kW	119 hp
Bore	98 mm	4 in
Stroke	120 mm	5 in
Displacement	3.6 L	220 in ³

- No engine power derate required below 3000 m (9,840 ft) altitude.
- Net power is tested per ISO 9249:2007. Standards in effect at the time of manufacture.
- Net power available at the flywheel when the engine is equipped with fan, air cleaner, aftertreatment, and alternator with engine speed at 2,400 rpm.

Hydraulic System

Main System – Maximum Flow	296 L/min	78 gal/min
Maximum Pressure – Equipment	35 000 kPa	5,075 psi
Maximum Pressure – Travel	35 000 kPa	5,075 psi
Maximum Pressure – Swing	25 800 kPa	3,741 psi

Swing Mechanism

Swing Speed	8.7 rpm	
Maximum Swing Torque	61.0 kN-m	44,991 lb-ft

Machine Weights

Operating Weight	17 300 kg	38,100 lb
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- Long undercarriage, Reach boom, R2.9 (9'6") stick, GD 1.00 m³ (1.31 yd³) bucket, 600 mm (24") triple grouser shoes and 3.05 mt (6,720 lb) counterweight.

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	23.0 gal
DEF Tank	22 L	5.9 gal

Dimensions

Boom	Reach 5.1 m (16'9")	
Stick	R2.9 (9'6")	
Bucket	GD 0.76 m³ (0.99 yd³)	
Shipping Height* (top of cab)	2930 mm	9'7"
Handrail Height*	2940 mm	9'8"
Shipping Length	8570 mm	28'1"
Tail Swing Radius	2500 mm	8'2"
Counterweight Clearance	1010 mm	3'4"
Ground Clearance	430 mm	1'5"
Track Length	3970 mm	13'0"
Length to Center of Rollers	3170 mm	10'5"
Track Gauge	1,990 mm	6'6"
Transport Width – 600 mm (24") Shoes	2590 mm	8'6"

*For models with rubber track shoe add 50 mm (2") to dimensions.

Working Ranges and Forces

Boom	Reach 5.1 m (16'9")	
Stick	R2.9 (9'6")	
Bucket	GD 0.76 m³ (0.99 yd³)	
Maximum Digging Depth	6400 mm	21'0"
Maximum Reach at Ground Level	9010 mm	29'7"
Maximum Cutting Height	8900 mm	29'2"
Maximum Loading Height	6280 mm	20'7"
Minimum Loading Height	1990 mm	6'6"
Maximum Depth Cut for 2400 mm (8'0") Level Bottom	6170 mm	20'3"
Maximum Vertical Wall Digging Depth	4960 mm	16'3"
Minimum Working Equipment Radius	2940 mm	9'8"
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 kg of refrigerant, which has a CO₂ equivalent of 1.287 metric tonnes.

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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