



Cat[®] 315 GC

Hydraulic Excavator

The Cat[®] 315 GC Excavator fits your jobsite and your wallet. Simplified maintenance points, longer maintenance intervals, and fuel saving features and components keep owning and operating costs low. Combined with its compact radius design and a large, ergonomic cab, the 315 GC keeps you working efficiently and comfortably – all at a low cost-per-hour.

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 15 percent less fuel than the 315F to keep you moving and productive on the jobsite.
- Work confidently in space-restricted areas. Dig, swing, and dump within a working space of 3.96 m (12 ft 11 in).
- Easily work on slopes and move around the jobsite with 10 percent more swing torque.
- 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.

Lower Maintenance Costs

- Expect up to 25 percent less maintenance costs than the 315F.
- 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.

Work in Comfort in the All-New Cab

- Increase operator productivity with an all-new, 13 percent larger cab.
- The cab has a wide seat that adjusts for operators of all sizes.
- Get in and out of the cab easier using the tip-up left console.
- Advanced viscous mounts reduce cab vibration.
- Control the excavator comfortably with easy-to-reach controls, all located in front of you.
- Stow your gear with plenty of in-cab storage beneath and behind the seat, overhead, and in the consoles. A cup holder, document holder, and coat hook are also provided.
- Use the standard radio's USB ports and Bluetooth[®] technology to connect personal devices and make hands-free calls.



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Reliable, Whatever the Environment

- Don't let the temperature stop you from working. The 315 GC has a standard high-ambient temperature capability of 52° C (125° F) without derate and cold-start capability of -25° C (-13° F).
- Auto 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 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 Locator is a Bluetooth device that makes finding your attachments and other gear quick and easy. The available Bluetooth reader or 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.
- Smaller cab pillars, larger windows, and a wider skylight hatch provide 60 percent greater vertical visibility.
- The standard hydraulic lockout lever isolates all hydraulic and travel functions in the lowered position.
- A ground-level shut-off 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.
- Optional boom and stick lowering check valves prevent reverse flow, keeping your front linkage securely in place should the hydraulic system unexpectedly lose power.
- 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
BOOM AND STICKS			HYDRAULIC SYSTEM		
4.65 m (15'3") Reach boom	✓		Boom and stick regeneration circuits	✓	
R2.5 m (8'2") stick		✓ ¹	Automatic hydraulic warm up	✓	
R2.8 m (9'2") stick		✓ ²	Automatic two-speed travel	✓	
R2.8 m (9'2") Thumb Ready stick		✓ ²	Electric main control valve	✓	
R3.0 m (9'10") stick		✓	Boom and stick drift reduction valve	✓	
CAB			Single type electronic pump	✓	
ROPS, sound suppression	✓		Electric boom snubber	✓	
Comfort Cab: mechanical suspension seat, 8" touchscreen monitor	✓		Auxiliary line support	✓	
CAT TECHNOLOGY			Boom and stick lowering check valves		✓
Cat Product Link™	✓		Medium-pressure line		✓
Auto hammer stop	✓		High-pressure line		✓
ELECTRICAL SYSTEM			Quick coupler line		✓
Maintenance free battery	✓		SAFETY AND SECURITY		
LED chassis light, left-side/right-side boom lights, cab lights	✓		Rear and right-side-view cameras	✓	
Programmable time-delay LED working lights	✓		Ground level engine shutoff switch	✓	
Centralized electrical disconnect switch	✓		Service platform with anti-skid plate and countersunk bolts	✓	
ENGINE			Signaling/warning horn	✓	
C3.6 Tier 4 Final/Stage V Diesel Engine	✓		SERVICE AND MAINTENANCE		
Automatic engine speed control	✓		Grouped engine oil and fuel filters	✓	
Automatic engine shutdown	✓		Ground level engine oil dipstick	✓	
52° C (125° F) high-ambient cooling capacity without derate	✓		S•O•S sampling ports	✓	
-25° C (-13° F) cold start capability	✓		UNDERCARRIAGE AND STRUCTURES		
Electric fuel priming pump	✓		Grease lubricated track link	✓	
Variable speed fan	✓		ISO 15818 tie-down points on base frame	✓	
Single fuel filtration system	✓		500 mm (20") triple grouser shoes		✓
Double element air filter with integrated precleaner	✓		500 mm (20") triple grouser shoes with rubber pad		✓
Biodiesel capability up to B20	✓		500 mm (20") rubber shoe		✓
			600 mm (24") triple grouser shoes		✓
			700 mm (28") triple grouser shoes		✓
			3,830 kg (8,440 lb) counterweight	✓	
			2,500 mm (8'2") blade		✓
			2,600 mm (8'6") blade		✓
			2,700 mm (8'10") blade	✓	

¹Europe only

²North America only

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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	C3.6	
Engine Power – ISO 14396	74 kW	100 hp
Net Power – ISO 9249	73 kW	98 hp
Bore	98 mm	4 in
Stroke	120 mm	5 in
Displacement	3.6 L	220 in ³

- Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Recommended for use up to 4500 m (14,764 ft) altitude with engine power derate above 3000 m (9,842 ft).
- 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	247 L/min	65 gal/min
Maximum Pressure – Equipment	35 000 kPa	5,075 psi
Maximum Pressure – Travel	35 000 kPa	5,075 psi
Maximum Pressure – Swing	26 000 kPa	3,770 psi

Swing Mechanism

Swing Speed	11.5 rpm	
Maximum Swing Torque	35 kN-m	25,815 lbf-ft

Machine Weights

Operating Weight	15 400 kg	34,000 lb
• Long undercarriage, Reach Boom + R3.0 (9'10") stick, GD 0.53m ³ (0.69 yd ³) bucket, 700 mm (28") triple grouser shoes and 3.83 mt (8,440 lb) counterweight.		

Service Refill Capacities

Fuel Tank Capacity	187 L	49.4 gal
Cooling System	15 L	4.0 gal
Engine Oil	8 L	2.1 gal
Final Drive	3 L	0.8 gal
Hydraulic System (including tank)	138 L	36.5 gal
Hydraulic Tank	72 L	19.0 gal

Dimensions

Boom	Reach 4.65 m (15'3")	
Stick	Reach R3.0 (9'10")	
Bucket	GD 0.53 m³ (0.69 yd³)	
Shipping Height (top of cab)	2810 mm	9'3"
Handrail Height	2860 mm	9'5"
Shipping Length	7530 mm	24'8"
Shipping Length (with blade)	8090 mm	26'7"
Tail Swing Radius	1570 mm	5'2"
Counterweight Clearance	880 mm	2'11"
Ground Clearance	440 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	2690 mm	8'10"

Working Ranges and Forces

Boom	Reach 4.65 m (15'3")	
Stick	Reach R3.0 (9'10")	
Bucket	GD 0.53 m³ (0.69 yd³)	
Maximum Digging Depth	5990 mm	19'8"
Maximum Reach at Ground Line	8690 mm	28'6"
Maximum Cutting Height	9690 mm	31'9"
Maximum Loading Height	7220 mm	23'8"
Minimum Loading Height	2080 mm	6'10"
Maximum Depth Cut for 2400 mm (8'0") Level Bottom	5810 mm	19'1"
Maximum Vertical Wall Digging Depth	5180 mm	17'0"
Minimum Working Equipment Radius	2240 mm	7'4"
Bucket Digging Force (ISO)	98.67 kN	22,180 lbf
Stick Digging Force (ISO)	59.27 kN	13,330 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 0.8 kg of refrigerant which has a CO₂ equivalent of 1.144 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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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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