

318 GC

HYDRAULIC EXCAVATOR



Net Power – ISO 9249
Operating Weight
Maximum Digging Depth

83.1 kW (111 hp)
17 500 kg (38,600 lb)
6110 mm (20 ft)



318 GC

HYDRAULIC EXCAVATOR

If you need reliability, durability, high productivity, and low cost, the Cat® 318 GC is made for you. This excavator is designed, built, and uniquely supported to help you get more work done every day and help put money back in your pocket.



HIGH PERFORMANCE

Operate with ease. A powerful engine, electro-hydraulic pump and control valve, and high digging force help you get more work done every day.

LOW MAINTENANCE COSTS

Long life filters for fuel, hydraulic oil, and air help lower your overall costs.

DESIGNED FOR DAILY WORK

The 318 GC is easy to own and operate, providing the reliability and durability you expect from Cat® products.

RELIABLE, DURABLE PERFORMANCE

- The Cat® C3.6 engine meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- The main hydraulic pump is electronically controlled to help improve control and productivity.
- Undercarriage and track design help balance performance and stability.
- Boom, stick, and bucket linkage are enhanced to ensure maximum durability.
- Reinforced bucket linkage pin allows for high digging force.
- Standard high-ambient cooling capability is 46° C (115° F) with cold start capability at -18° C (0° F).
- Auto warm up speeds up hydraulic oil warming in cold temperatures and helps prolong the life of components.

*Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area.
Build Number: 05A*



LOW OWNING AND OPERATING COSTS

- Match the power to the job with three working modes: Smart for power automatically adjusted to demand, Eco for lowest fuel burn, and Power for highest productivity.
- Hydraulic oil, fuel, and air filters have a long service life, and pilot and case drain filters are not needed to help keep costs low.
- Most daily maintenance can be performed from ground level to help decrease the amount of time you spend on daily tasks.
- The 318 GC has low hydraulic and engine oil refill capacities to help decrease the amount of time you spend on servicing.
- Automatic Engine Speed Control helps reduce fuel consumption as it lowers engine speed when no operation is performed.
- Cat VisionLink® comes standard so you can remotely monitor fuel consumption, machine health, location, and hours on demand.



SIMPLE TO OPERATE



- Start the engine with a push button.
- Operate the excavator comfortably with a 1-button joystick, and easy-to-reach and intuitive controls.
- Navigate quickly on the standard high-resolution 203 mm (8 in) 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.
- Not sure how a function works or how to maintain the excavator? Always have the operator's manual at your fingertips in the touchscreen monitor.

WORK IN COMFORT

- Wide seat adjusts for operators of all sizes.
- Standard automatic climate control keeps you at the right temperature all shift long.
- Control the excavator comfortably with easy-to-reach controls, all located in front of you.
- Convenience features include a radio, headphone port, and a USB port for connecting and charging devices.
- Cup holder and storage space forward of the controls can hold large cups and wide cell phones; storage behind the seat can hold a hard hat, large lunchbox, and other items.



EASY TO MAINTAIN

- Nearly all major mechanical components are accessed from the ground or the service platform.
- Radiator screens can be removed easily, are simple to clean, and help keep the radiator free of small debris that can be difficult to remove, such as grass clippings.
- The engine compartment is easily accessed from the service platform; fluid caps and gauges are easily reached, and an automatic tensioner helps ensure you will never need to make belt adjustments.
- 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.
- Cat technology helps you monitor your machine, and the Caterpillar service network helps you maximize uptime.
- Scheduled Oil Sampling (S-O-SSM) ports help simplify maintenance and allow for quick, easy extraction of samples for fluid analysis.



SAFETY FEATURES

- The ground-level shutoff switch stops all fuel to the engine when activated and shuts down the machine.
- Steps and platforms use anti-skid plates with countersunk bolts to help prevent slipping and tripping.
- The operator can exit in an emergency through either the rear window or the steel top hatch.
- The cab has large windows and small cab posts, to help provide excellent visibility into the trench and in every direction.
- Bright exterior LED lights and an optional rearview camera help ensure you have total visibility on the jobsite.
- The standard hydraulic lockout lever isolates all hydraulic and travel functions in the lowered position.



SUSTAINABILITY



- The Cat C3.6 engine meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- Cat engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels** up to: 100% 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.
- When engaged, one-touch idle helps operators conserve fuel and reduce greenhouse gas emissions by lowering engine speed when the machine is under no load and return to normal operating speed when desired.
- Auto Engine Speed Control reduces fuel burn and greenhouse gas emissions by allowing the engine to automatically go into idle mode when the machine is not working. Consult your Cat dealer or the machine’s operation and maintenance manual for more information.

**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 world-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

Easily expand the performance of your machine by using 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.

**HYDRAULIC
HAMMERS**



PULVERIZERS



**VIBRATORY PLATE
COMPACTORS**



MULCHERS



ROTARY CUTTERS



BUCKETS



TECHNICAL SPECIFICATIONS

Engine

Engine Model	C3.6	
Net Power – ISO 9249	83.1 kW	111 hp
Net Power – ISO 9249 (DIN)	113 hp (metric)	
Engine Power – ISO 14396:2002	90 kW	121 hp
Engine Power – ISO 14396 (DIN)	122 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 Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.	

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 engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels** up to: 100% 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.

*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.

Swing Mechanism

Swing Speed	9.56 r/min	
Maximum Swing Torque	46 kN-m	33,840 lbf-ft

Weights

Operating Weight	17 500 kg	38,600 lb
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Machine Weight

Operating Weight	14 300 kg	31,600 lb
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Service Refill Capacities

Fuel Tank Capacity	285 L	75.3 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	190 L	50.2 gal
Hydraulic Tank	94 L	24.8 gal

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	23 800 kPa	3,452 psi
Bucket Cylinder – Stroke	939 mm	37 in
Boom Cylinder – Bore	105 mm	4 in
Boom Cylinder – Stroke	1015 mm	40 in
Bucket Cylinder – Bore	100 mm	4 in
Stick Cylinder – Stroke	1197 mm	47 in
Stick Cylinder – Bore	120 mm	5 in

Working Ranges and Forces

Boom	Reach 5.1 m (16'9")	
Stick	Reach 2.6 m (8'6")	
Bucket	SD 0.91 m ³ (1.19 yd ³)	
Maximum Digging Depth	6110 mm	20 ft
Maximum Reach at Ground Level	8800 mm	28.9 ft
Maximum Cutting Height	8930 mm	29.3 ft
Maximum Loading Height	6270 mm	20.6 ft
Minimum Loading Height	2280 mm	7.5 ft
Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	5890 mm	19.3 ft
Maximum Vertical Wall Digging Depth	5070 mm	16.6 ft
Bucket Digging Force – ISO	123 kN	27,650 lbf
Stick Digging Force – ISO	80 kN	17,980 lbf

Dimensions

Boom	Reach 5.1 m (16'9")	
Stick	Reach 2.6 m (8'6")	
Bucket	SD 0.91 m ³ (1.19 yd ³)	
Shipping Height – Top of Cab	3030 mm	9.9 ft
Handrail Height	2930 mm	9.6 ft
Shipping Length	8730 mm	28.6 ft
Tail Swing Radius	2700 mm	8.9 ft
Counterweight Clearance	1030 mm	3.4 ft
Ground Clearance	460 mm	1.5 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
Length – Center of Rollers	3040 mm	10 ft

STANDARD & OPTIONAL EQUIPMENT

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

	Standard	Optional
UNDERCARRIAGE AND STRUCTURES		
Long undercarriage	✓	
Grease lubricated track links	✓	
Bottom guards	✓	
Travel motor guards	✓	
Swivel guard	✓	
3250 kg (7,165 lb) counterweight	✓	
Tie-down points	✓	
600 mm (24") double grouser track shoes		✓
600 mm (24") triple grouser track shoes		✓
700 mm (28") triple grouser track shoes		✓
BOOM AND STICKS		
5.1 m (16'9") Reach boom		✓
5.1 m (16'9") HD Reach boom		✓
2.6 m (8'6") Reach stick		✓
2.6 m (8'6") HD Reach stick		✓
2.9 m (9'6") Reach stick		✓
CAT TECHNOLOGY		
VisionLink*	✓	
CAB		
Sound suppressed with viscous mounts	✓	
High-resolution 203 mm (8") LCD touchscreen monitor	✓	
Mechanically adjustable seat with headrest	✓	
Auto bi-level air conditioner	✓	
Keyless push-to-start engine control	✓	
Floor-mounted adjustable consoles	✓	
1-button joystick	✓	
AM/FM radio with USB and auxiliary port	✓	
24V DC outlet	✓	
Cup holder and storage compartments	✓	
70/30 tempered glass windshield	✓	
Openable steel hatch	✓	
Dome light	✓	
Washable floor mat	✓	
Operator Protective Guards (OPG)		✓
1 slider joystick		✓

*Connect subscription only. Additional subscriptions are available. Contact your Cat dealer for availability.

	Standard	Optional
ENGINE		
Three selectable modes: Power, Smart, Eco	✓	
46°C (115°F) high-ambient cooling capability	✓	
-18°C (0°F) cold start capability	✓	
Electric fuel priming pump	✓	
Two-stage fuel filtration system	✓	
Sealed double-element air filter with pre-cleaner	✓	
ELECTRICAL SYSTEM		
750 CCA maintenance-free batteries (x2)	✓	
Electrical disconnect switch	✓	
LED left-side boom and chassis lights	✓	
Cat® C3.6 single turbo diesel engine	✓	
LED right-side boom light		✓
LED cab light		✓
SERVICE AND MAINTENANCE		
Grouped location of filters	✓	
Radiator screen	✓	
Scheduled Oil Sampling (S-O-S) ports	✓	
HYDRAULIC SYSTEM		
Electronic main control valve	✓	
Single type electronic main pump	✓	
Boom and stick regeneration circuits	✓	
Automatic hydraulic oil warm up	✓	
Automatic two-speed travel	✓	
High performance hydraulic return filter	✓	
Hammer lines		✓
Hammer floor pedal kit		✓
SAFETY AND SECURITY		
Anti-skid plating with countersunk bolts	✓	
Right-hand handrail and hand hold	✓	
Lockable external tool/storage box	✓	
Lockable disconnect switch	✓	
Ground-level engine shutoff switch	✓	
Signaling/warning horn	✓	
Hydraulic lockout lever	✓	
Travel alarm	✓	
Rearview camera		✓

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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