

M317

WHEELED EXCAVATOR



Engine Power – ISO 14396
Operating Weight Maximum
Maximum Travel Speed

108 kW (145 hp)
17 500 kg (38,580 lb)
34 km/h (21.1 mile/h)



M317

WHEELED EXCAVATOR

Getting more done with fewer machines, less fuel and less time. That's the purpose of the Cat® M317 Wheeled Excavator. Enhanced controls, heavy lift mode, and advanced engine systems ensure this machine performs at peak levels with the least amount of fuel.



USE LESS FUEL

One-touch low idle and Eco Mode lower your fuel bill without impacting your productivity.

UP TO 7% MORE LIFTING POWER

Heavy lift mode maximizes your lifting performance by boosting the lifting capacity of the machine.

EASY TO SERVICE

Reduce owning and operating costs with quick, easy-to-do maintenance.

BUILT TO PERFORM

- The Cat® C4.4 engine meets U.S. EPA Tier 3 and EU Stage IIIA emission standards.
- Optimize fuel consumption during both working and traveling applications with our efficient fuel system.
- Reduce fuel consumption thanks to the Automatic Engine Speed Control; it lowers engine speed when no operation is performed.
- Optimize fuel consumption with fuel savers like one-touch low-idle control and enhanced Eco Mode.
- Enjoy quick response to changing loads with the constant power strategy.
- Get the right balance of reach and digging forces from various boom and stick options.
- Boost lift up to 7% using the one-touch heavy lift button.
- Experience fast and smooth combined movements when working and swinging simultaneously thanks to the dedicated swing pump.



OPTIONS TO MEET YOUR NEEDS



- Move fast with 34 km/h (21.1 mile/h) maximum travel speed.
- Build the machine you want with multiple configurations and attachments.
- Ensure quick attachment changes with optional medium- and high-pressure hydraulics.
- Set up to 10 attachment flows and pressures with optional tool control.

INTEGRATED CAT TECHNOLOGIES

- Increase production and minimize operating cost with Cat Connect technology solutions. Link technologies wirelessly connect you to your jobsite, providing machine location, hours, fuel usage, idle time and event codes.



BUILT-IN SAFETY FEATURES

- Enjoy simple, ergonomically designed controls for easy operation.
- Stay comfortable in the optional heated seat; air suspension automatically adjusts to your weight.
- See all around you through expansive glass and the rear-mounted camera that displays objects on the color monitor.
- Work with low noise levels; the machine is quiet inside and out, making it ideal for areas with sound restrictions.



BUILT FOR LONG TERM PRODUCTION



- Count on long engine life due to our unique fuel system; it's designed to handle low-quality diesel fuel.
- Work year round with maintenance-free heavy-duty batteries and engine cold start capability.
- Count on less risk of drivetrain damage thanks to an exclusive transmission design and heavy-duty axles.
- Expect less risk of leaks and performance loss with resistant and durable Cat XT™-6 ES hoses.

LOWER MAINTENANCE COSTS

- Take advantage of ground-level access for all daily maintenance points.
- Experience more uptime with centralized, conveniently located greasing points.
- Reduce costs linked to fluids and disposals thanks to long service intervals.



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

WHEELED EXCAVATORS

MATERIAL HANDLERS

EXCAVATORS

WHEEL LOADERS

TRACK LOADERS

**Offerings and services may vary by region. Please consult your Cat dealer for availability in your area.*

INCREASE PRODUCTIVITY AND VERSATILITY

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 wheeled excavators for improved performance, safety, and stability.

BUCKETS



GRAPPLES



HYDRAULIC HAMMERS



**VIBRATORY PLATE
COMPACTORS**



PIN GRABBER COUPLER



ORANGE PEEL GRAPPLES



TECHNICAL SPECIFICATIONS

Engine

Engine Power – ISO 14396	108 kW	145 hp
Engine Model	Cat C4.4	
Bore	105 mm	4.1 in
Displacement	4.4 L	268.5 in ³
Stroke	127 mm	5 in
Engine Emissions	Meets U.S. EPA Tier 3 and EU Stage IIIA emission standards.	

- Net power advertised is the power available at the flywheel when engine is equipped with fan, air cleaner, Clean Emission Module (CEM) exhaust gas aftertreatment, alternator, and cooling fan running at intermediate speed.
- Recommended for use up to 3000 m (9,840 ft) altitude with engine power derate above 3000 m (9,840 ft).
- Advertised power is tested per the specified standard in effect at the time of manufacture.
- Rated speed 2,000 rpm.

Hydraulic System

Main System – Maximum Flow – Implement	220 L/min	58 gal/min
Maximum Pressure – Equipment	35 000 kPa	5,076 psi
Maximum Pressure – Swing	37 000 kPa	5,657 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi

Swing Mechanism

Maximum Swing Torque	42 kN-m	31,080 ft-lbf
Maximum Swing Speed	9 r/min	

Machine Weight

Operating Weight Maximum	17 500 kg	38,580 lb
Operating Weight Minimum	15 300 kg	33,730 lb

Operating weight includes full fuel tank, operator, 500 kg (1,102 lb) bucket and 10.00-20 dual pneumatic tires. Weight varies depending on configuration.

Service Refill Capacities

Cooling System	33 L	8.7 gal
Final Drive	2.5 L	0.7 gal
Fuel Tank	240 L	63.4 gal
Hydraulic System – Including Tank	255 L	67 gal
Hydraulic Tank	135 L	35.7 gal

Dimensions

Boom	5050 mm (16'7")	
Bucket	GD 0.83 m ³ (1.09 yd ³)	
Stick	2.4 m (7'10")	
Counterweight Clearance	1260 mm	4.2 ft
Shipping Height – Top of Cab	3150 mm	10.3 ft
Shipping Length	8330 mm	27.3 ft
Tail Swing Radius	2210 mm	7.3 ft

Working Ranges and Forces

Boom Type	One-Piece Boom	
Bucket	GD 0.83 m ³ (1.09 yd ³)	
Stick	2.4 m (7'10")	
Digging Height	9070 mm	29.8 ft
Dump Height	6110 mm	20 ft
Reach at Ground Level	8970 mm	29.4 ft
Vertical Wall Digging Depth	3650 mm	12 ft

Range values are calculated with a quick coupler and a 1100 mm/0.83 m³ bucket with a tip radius of 1574 mm (5'2").

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.85 kg of refrigerant which has a CO₂ equivalent of 1.216 metric tonnes.

Drive

Maximum Travel Speed	34 km/h	21.1 mile/h
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STANDARD & OPTIONAL EQUIPMENT

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

	Standard	Optional
UNDERCARRIAGE AND STRUCTURES		
All wheel drive	✓	
Creeper speed	✓	
Heavy-duty axles, advanced disc brake system and travel motor, adjustable braking force	✓	
Oscillating front axle, lockable, with remote greasing point	✓	
Two-piece drive shaft	✓	
Two speed hydrostatic transmission	✓	
Full hydraulic steering with emergency capability	✓	
Parking brake	✓	
Wide steps, left and right	✓	
Two tool boxes in undercarriage, left and right	✓	
Counterweight (3500 kg- 7716 lb)	✓	
10.00-20 dual pneumatic tires		✓
10.00-20 dual pneumatic tires with road profile		✓
Rear outrigger/front blade undercarriage		✓
Steel fenders		✓
Counterweight (3900 kg/8598 lb)		✓
BOOM AND STICKS		
One-Piece Boom		✓
2400 mm (7'10") stick		✓
2600 mm (8'6") stick		✓
Bucket linkage with or without diverter valve		✓
CAT TECHNOLOGIES		
Cat Product Link™	✓	
ENGINE		
Cat C4.4 engine – meets U.S. EPA Tier 3 and EU Stage IIIA emission standards.	✓	
Power mode selector	✓	
Air filter/fuel filter	✓	
Automatic engine speed control	✓	
Automatic starting aid	✓	
Fuel/water separator with level indicator	✓	
Muffler	✓	
SERVICE AND MAINTENANCE		
Schedule Oil Sampling (S-O-S SM) ports	✓	
Caterpillar Datalink and Electronic Technician capability	✓	
Door locks and cab locks with Caterpillar one-key security system	✓	

	Standard	Optional
ELECTRICAL SYSTEM		
Alternator, 75 A	✓	
Boom working light	✓	
Cab mounted working lights, front and rear	✓	
Cab interior light	✓	
Main shut-off switch	✓	
Rooding and indicator lights, front and rear	✓	
Maintenance free batteries	✓	
Electrical refueling pump		✓
HYDRAULIC SYSTEM		
Heavy lift mode	✓	
Separate swing pump	✓	
Stick regeneration circuit	✓	
Variable displacement, load sensing hydraulic system	✓	
Automatic swing brake	✓	
Capability to add auxiliary hydraulic circuits	✓	
Anti drift devices for boom, stick and bucket	✓	
Adjustable hydraulic sensitivity	✓	
Oil cooler	✓	
Hydraulic mineral oil, Cat HYDO™ Advanced 10 oil	✓	
Auxiliary boom and stick lines		✓
Medium pressure control circuit		✓
Hammer circuit		✓
One/Two-way high pressure for hammer application		✓
Programmable flow for up to 10 work tools		✓
Quick coupler control		✓
Quick disconnect for hydraulic lines		✓
SAFETY AND SECURITY		
Camera mounted on counterweight	✓	
Mirrors, frame and cab	✓	
Travel alarm	✓	
Signal/warning horn	✓	
Travel alarm with three selectable modes		✓
Rotating beacon on cab and chassis		✓

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