



Cat[®] M317

Wheeled Excavator

The Cat[®] M317 Wheeled Excavator offers more performance features and versatility than ever before. Its compact radius design lets you work in space restricted areas. With more digging force and increased swing torque, the M317 provides everything you need to get the job done quickly and efficiently. Low maintenance costs, longer service intervals, and reduced fuel consumption combine to provide low operating costs – keeping more money in your pocket.

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

High Performance with Lower Fuel Consumption

- The Cat[®] C4.4 engine matches to your performance and production needs. The engine meets EU Stage V emission standards.
- Use up to 5 percent less fuel consumption over the M317F.
- Work confidently in space-restricted areas. Dig, swing, and dump within a tight working space.
- Travel more easily between sites with travel speeds up to 35 kph (21.7 mph).
- From dirt to asphalt, the excavator matches your needs to get the job done in a timely, efficient manner.
- The advanced hydraulic system provides the optimum balance of power and efficiency while giving you the control you need for precise working requirements.
- With up to 8 percent more swing torque, you can get the job done faster to move on to the next one. The dedicated swing pump provides consistent power for better multitasking capabilities.
- Auxiliary hydraulic options give you the versatility to use a wide range of Cat attachments.
- Don't let the temperature stop you from working. The excavator has a standard high-ambient temperature capability of 52°C (125°F) and cold start capability of -18°C (0°F).

Work in Comfort

- Choose between Deluxe and Premium cab options.
- The Deluxe seat is heated and air adjustable, while the Premium seat is heated, ventilated, and adjusts automatically.
- Get in and out of the cab easier using the tip-up left console.
- Feel more comfortable in the cab while you work with reduced cab vibrations from advanced viscous mounts.
- 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, bottle holder, and coat hook are also provided.
- Bluetooth[®] integrated radio allows for seamless mobile phone connection to listen to music, podcasts, and hands-free calling.
- Easily adjust the climate control system using the touchscreen monitor or jog dial.

Lower Maintenance Costs

- 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.
- Save up to 5 percent in maintenance costs with the new, longer lasting filters.
- Track your machine's filter life and maintenance intervals on the in-cab monitor.
- Two levels of fuel filtration protect the engine from fuel contamination.
- 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.
- 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.



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Simple to Operate

- Start the engine with the push-to-start button, a Bluetooth key fob, or the unique Operator ID function.
- Program your power mode and joystick preferences using Operator ID; the excavator remembers your settings each time you go to work.
- Navigate quickly on the standard high-resolution 254 mm (10 inch) touchscreen monitor or with the aid of the jog dial control.
- The axle locks at zero speed and unlocks when the travel pedal is activated. The axle can also be manually locked with a button on the right-hand console.
- Auto Axle Brake Lock automatically activates the service brake and locks axle oscillation. It is activated when the travel pedal is in neutral and the machine speed is near zero.

Safety

- Access daily maintenance points from ground level.
- Keep your excavator secure with Operator ID. Use your PIN code on the monitor to enable the pushbutton starting feature.
- The standard ROPS cab meets ISO 12117-2:2008 requirements.
- Enlarged windows and improved machine layout increase visibility from the seat of the cab compared to the M317F. Rearview and side-view cameras are standard.
- The service platform design provides easy, safe, and quick access to the upper service platform; the service platform steps use anti-skid punch plate to prevent slipping.
- The standard hydraulic lockout lever isolates all hydraulic and travel functions in the lowered position.
- Swing lock prevents the front linkage from moving as you travel.
- Ground-level shutoff switch stops all fuel to the engine when activated and shuts down the machine.

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
CAB			BOOM AND STICKS		
ROPS, sound suppression	✓		5.2 m (17'1") variable adjustable boom	✓	
Deluxe cab		✓	2.2 m (7'3") stick		✓
Premium cab		✓	2.5 m (8'2") stick		✓
High-resolution 254 mm (10 in) LCD touchscreen monitor	✓		UNDERCARRIAGE AND STRUCTURES		
CAT TECHNOLOGY			10.00-20 16 PR, dual tires		✓
Cat Product Link™	✓		11.00-20 16 PR, dual tires		✓
Remote Flash/Troubleshoot capability	✓		315/70R22.5, no gap dual tires		✓
ENGINE			445/70R 19.5, single tires		✓
Cat C4.4 diesel engine	✓		Creep speed		✓
Power mode selector	✓		Electronic swing and travel lock		✓
One-touch low idle with auto engine speed control	✓		Heavy-duty axles, advanced disc brake system and travel motor, adjustable braking force		✓
Auto engine idle shutdown	✓		Oscillating front axle, lockable, with remote greasing point		✓
52°C (125°F) high-ambient cooling capacity	✓		Automatic brake/axle lock		✓
-18°C (0°F) cold start capability	✓		4300 kg (9,460 lb) counterweight		✓
Sealed double element air filter with integrated precleaner	✓		All wheel drive		✓
Electric fuel priming pump	✓		ELECTRICAL SYSTEM		
On-demand electric cooling fans	✓		LED lights on chassis (left-hand, right-hand) and counterweight		✓
Biodiesel capability up to B20	✓		Programmable time-delay LED working lights		✓
HYDRAULIC SYSTEM			Roading and indicator lights, front and rear		✓
Automatic swing brake	✓		Maintenance-free batteries		✓
Auto hydraulic oil warm up	✓		Centralized electrical disconnect switch		✓
Electronic main control valve	✓		Electrical refueling pump		✓
Boom, stick, and bucket drift reduction valves	✓		SERVICE AND MAINTENANCE		
1-slider joystick		✓	Sampling ports for Scheduled Oil Sampling (S-O-S)		✓
2-slider joystick		✓	Automatic lubrication system for implement and swing system		✓
Second high-pressure auxiliary circuit (one-/two-way high-pressure flow)		✓	SAFETY AND SECURITY		
Medium pressure auxiliary circuit (one-/two-way medium-pressure flow)		✓	Rear- and right-side-view cameras		✓
Heavy lift mode	✓		360° visibility		✓
Quick coupler circuit for CW-dedicated coupler	✓		Cat asset tracker		✓
SmartBoom™		✓	Wide angle mirrors		✓
Ride control		✓	Ground-level engine shutoff switch		✓
Cat tiltrotator support		✓	Anti-skid plate and countersunk bolts on service platform		✓
Joystick steering		✓	Signaling/warning horn		✓
Separate dedicated swing pump	✓				
Adjustable hydraulic aggressiveness	✓				
Electronic pattern changer	✓				
Auxiliary high pressure circuit	✓				

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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	C4.4	
Engine Power (ISO 14396:2002)	112 kW	150 hp
Net Power (ISO 9249:2014)	108 kW	145 hp
Bore	105 mm	4.1 in
Stroke	127 mm	5 in
Displacement	4.4 L	268.5 in ³

- Meets EU Stage V emission standards.
- Advertised power is tested per the specified standard in effect at the time of manufacture.
- Net power advertised is the power available at the flywheel when engine is equipped with fan, air cleaner, CEM exhaust gas aftertreatment, alternator, and cooling fan running at intermediate speed.
- Recommended for use up to 3000 m (9,843 ft) altitude with engine power derate above 3000 m (9,843 ft).
- Rated speed 2,200 rpm.

Hydraulic System		
Main System – Maximum Flow – Implement	254 L/min	67 gal/min
Maximum Pressure – Heavy Lift	37 000 kPa	5,366 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Normal	35 000 kPa	5,076 psi

Swing Mechanism		
Swing Speed	9.4 rpm	
Maximum Swing Torque	44 kN-m	32,560 lb-ft

Machine Weight		
Operating Weight Minimum	17 350 kg	38,250 lb
Operating Weight Maximum	20 100 kg	44,310 lb

Service Refill Capacities		
Fuel Tank	290 L	76.6 gal
Diesel Exhaust Fluid (DEF)	20 L	5.3 gal
Cooling System	35 L	9.2 gal
Engine Oil	13 L	3.4 gal
Hydraulic Tank	120 L	31.7 gal
Hydraulic System (including tank)	280 L	74 gal
Final Drive (each)	2.5 L	0.7 gal

Transmission			
Forward/Reverse			
1st Gear	10 km/h	6.2 mph	
2nd Gear	35 km/h	21.7 mph	
Creep Speed			
1st Gear	5.5 km/h	3.4 mph	
2nd Gear	15 km/h	9.3 mph	
Drawbar Pull		104 kN	23,380 lbf
Maximum Gradeability at (19 000 kg/41,850 lb)			65%

Dimensions		
Boom	VA 5.2 m (17'1")	
Stick	2.5 m (8'2")	
Bucket	GD 0.80 m ³ (1.05 yd ³)	
Shipping Height (top of cab)	3320 mm	10'11"
Support Point	3530 mm	11'7"
Shipping Length	6260 mm	20'6"
Tail Swing Radius	1850 mm	6'1"
Counterweight Clearance	1300 mm	4'3"
Ground Clearance* ¹	325 mm	1'1"
Overall Undercarriage Length*	5050 mm	16'7"
Wheel Base*	2700 mm	8'10"

*Rear outrigger/front blade undercarriage

Working Ranges and Force		
Boom Type	VA 5.2 m (17'1")	
Stick	2.5 m (8'2")	
Bucket	GD 0.80 m ³ (1.05 yd ³)	
Maximum Loading Height	7770 mm	25'6"
Maximum Cutting Height	10 720 mm	35'2"
Maximum Digging Depth	5770 mm	18'11"
Maximum Reach at Ground Level	9220 mm	30'3"
Maximum Vertical Wall Digging Depth	4470 mm	14'8"

Air Conditioning System	
<ul style="list-style-type: none"> • 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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