

Cat[®] M317D2

Wheeled Excavator



Cat[®] wheeled excavators are designed to make you successful. The M317D2 offers the best solution whenever there is a need for a powerful and mobile machine capable of working on and off road. A wide variety of Cat attachments makes the machine versatile for multiple tasks.

Performance

- The Cat C4.4 ACERT™ engine meets China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 3/EU Stage IIIA.
- 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 10% using the one-touch heavy lift button.
- Further boost productivity with options like joystick steering or SmartBoom™.
- Experience fast and smooth combined movements when working and swinging simultaneously thanks to the dedicated swing pump.

Cat Connect Technology

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

Versatility

- Move fast with 34 kph 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.

Comfort, Ease of Operation and Safety

- Count on the Operator Protective Structure (with bolt-on cab for top and front guards) to help keep you safe in the event of a rollover.
- Enjoy simple, ergonomically designed controls for easy operation.
- Enjoy safe comfortable drive with the optional ride control that dampens front part motion.
- 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.

Reliability

- 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.

Maintenance – Lower 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.

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Engine	
Engine Model	Cat C4.4 ACERT
Ratings	2,000 rpm
Engine Power	
ISO 14396 Net (metric)	108 kW (147 hp)
ISO 9249/SAE J1349 Net (metric)	101 kW (137 hp)
Bore	105 mm
Stroke	127 mm
Displacement	4.4 L
Maximum Torque at 1,400 rpm	550 N·m
Number of Cylinders – In Line	4
• Meets China Nonroad Stage III emission standards, equivalent to Tier 3/Stage IIIA.	

Transmission	
Maximum Forward/Reverse – 2nd Gear	34 kph
Drawbar Pull	97 kN
Maximum Gradeability at 16 500 kg	69%

Swing Mechanism	
Maximum Swing Speed	9 rpm
Maximum Swing Torque	42 kN·m

Undercarriage	
Axle Clearance	370 mm
Maximum Steering Angle	35°
Oscillation Axle Angle	±8.5°

Service Refill Capacities	
Fuel Tank (total capacity)	240 L
Cooling System	33 L
Engine Crankcase	8 L

Working Ranges				
Boom Option	5020 mm VA Boom		5050 mm One-Piece Boom	
	2400 mm	2600 mm	2400 mm	2600 mm
Stick Length	10 230 mm	10 380 mm	9070 mm	9190 mm
Digging Height	7140 mm	7300 mm	6110 mm	6230 mm
Dump Height	5890 mm	6090 mm	5690 mm	5890 mm
Digging Depth	9190 mm	9380 mm	8970 mm	9170 mm
Reach at Ground Level	114 kN	114 kN	114 kN	114 kN
Bucket Forces (ISO 6015)	77 kN	73 kN	77 kN	73 kN
Stick Forces (ISO 6015)				

- Range values are calculated with a quick coupler and a bucket 1100 mm/0.83 m³ with a tip radius of 1574 mm. Values refer to stick nose pin.
- Bucket and stick force values are calculated with heavy lift on and a cutting edge of 1237 mm.

Weights	
Operating Weights	15 300 to 17 500 kg
Weights – One-Piece Boom*	
Blade Front and Outriggers Rear	16 290 kg
Weights – VA Boom*	
Blade Front and Outriggers Rear	16 790 kg
Weights – Sticks	
Medium (2400 mm)	514 kg
Long (2600 mm)	530 kg
Weights – Standard Counterweight	3500 kg
Weights – Optional Counterweight	3900 kg
*Weight includes medium stick, 3900 kg counterweight, with full fuel tank, operator, and without attachment. Weight varies depending on configuration.	

Hydraulic System		
Tank Capacity	135 L	
System	255 L	
Maximum Pressure – Implement Circuit		
Normal and Travel Circuit	350 bar	35 000 kPa
Heavy Lift	375 bar	37 500 kPa
Maximum Pressure – Auxiliary Circuit		
High Pressure	350 bar	35 000 kPa
Medium Pressure	185 bar	18 500 kPa
Swing Mechanism	370 bar	37 000 kPa
Maximum Flow		
Implement/Travel Circuit	220 L/min	
Auxiliary Circuit – High Pressure	220 L/min	
Auxiliary Circuit – Medium Pressure	40 L/min	
Swing Mechanism	78 L/min	

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