

Cat[®] M315D2

Wheeled Excavator



Cat[®] wheeled excavators are designed to make you successful. The M315D2 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 37 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

- Enjoy safe, comfortable driving with optional bucket rest* and ride control; both help dampen front linkage motion.
- 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.
- 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.

*Available for China, Asia, Taiwan and Indonesia only.

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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	37 kph
Drawbar Pull	76 kN
Maximum Gradeability at 14 500 kg	58%

Swing Mechanism

Maximum Swing Speed	9.8 rpm
Maximum Swing Torque	36 kN·m

Undercarriage

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

Service Refill Capacities

Fuel Tank (total capacity)	235 L
Cooling System	31 L
Engine Crankcase	8 L

Weights

Operating Weights	13 500 to 15 200 kg
Weights – One-Piece Boom* (either 4500 mm or 4815 mm* boom)	
Blade Front and Outriggers Rear	14 750 kg
Rear Blade Only	13 800 kg
Weights – VA Boom*	
Blade Front and Outriggers Rear	15 100 kg
Rear Blade Only	14 200 kg
Weights – Sticks	
Short (2000 mm)	370 kg
Medium (2300 mm)	390 kg
Weights – Standard Counterweight	2900 kg
Weights – Optional Counterweight	3300 kg

*Weight includes medium stick, 3300 kg counterweight, with full fuel tank, operator, and a 450 kg bucket. Weight varies depending on configuration.

Hydraulic System

Tank Capacity	95 L
System	180 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	350 bar 35 000 kPa
Maximum Flow	
Implement/Travel Circuit	180 L/min
Auxiliary Circuit – High Pressure	180 L/min
Auxiliary Circuit – Medium Pressure	40 L/min
Swing Mechanism	78 L/min

Working Ranges

Boom Option	5020 mm VA Boom		4815 mm One-Piece Boom		4500 mm One-Piece Boom*	
	2000 mm	2300 mm	2000 mm	2300 mm	2000 mm	2300 mm
Stick Length	2000 mm	2300 mm	2000 mm	2300 mm	2000 mm	2300 mm
Digging Height	9520 mm	9670 mm	8480 mm	8580 mm	8040 mm	8060 mm
Dump Height	7060 mm	7210 mm	6060 mm	6120 mm	5810 mm	5890 mm
Digging Depth	5010 mm	5300 mm	4840 mm	5140 mm	4520 mm	4810 mm
Reach at Ground Level	8330 mm	8580 mm	8080 mm	8320 mm	7770 mm	7940 mm
Bucket Forces (ISO 6015)	103 kN	103 kN	103 kN	103 kN	103 kN	103 kN
Stick Forces (ISO 6015)	76 kN	69 kN	76 kN	69 kN	76 kN	69 kN

• Range values are calculated with a bucket 1000 mm/0.6 m³ with a tip radius of 1225 mm. Values refer to stick nose pin.

• Bucket and stick force values are calculated with heavy lift on and a cutting edge of 1111 mm.

*For Asia, China, Taiwan and Indonesia only.

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