



Cat[®] M320D2

Wheeled Excavator

Cat[®] Wheeled Excavators are designed to answer customers' needs and make a significant contribution to the success of your business. The M320D2 offers the best solution whenever there is a need for a powerful and mobile machine, able to work on all ground conditions, whether dirt or roads. The wide variety of Cat attachments further optimizes the M320D2 versatility and allows you to face any job at hand.

Performance

- Cat C7.1 ACERT™ engine meets EU Stage IIIA equivalent emission standards.
- Engine fuel system designed to manage world-wide fuel quality and provide outstanding low fuel consumption during both working and traveling applications.
- One-Touch Low Idle Control and Automatic Engine Speed Control reduces engine speed if no operation is performed, reducing fuel consumption and sound levels.
- Constant Power Strategy, providing a quick response to changing loads, while delivering the same amount of power.
- Choice of various booms and sticks provides the right balance of reach and digging forces for all applications.
- Dedicated Swing Pump allows faster and smoother combined movements when using the implements while swinging.

Versatility

- Multiple configurations meet all your applications needs, with a choice of booms, sticks, blade and/or stabilizer undercarriages.
- Highly mobile, the M320D2 can travel up to 37 km/h.
- Standard one-way high pressure hydraulics allow customers to install attachments like hammers without adding other lines.
- Ten hydraulic pump flow and pressure settings can be preset within the monitor allowing quicker and easier attachment (optional).
- A lifting eye into the bucket linkage, the heavy lift mode and the overload warning signal allow operators to safely lift heavy loads.
- Wide range of Cat attachments to handle any job at hand.

Comfort, Ease of Operation and Safety

- ROPS cab structure and Operator Protective Structure (top and front guards) are available.
- Ergonomically designed cab with controls kept to a minimum, conveniently located and easy to operate.
- The optional air-suspension seat, with automatic weight adjustment and heated cushions enhance comfort and productivity.

- Safety is enhanced by the all-round visibility provided by large glass areas and skylight and the standard rear-mounted camera image displayed on the full color monitor.
- Low sound levels, as a result of the variable fan speed and remote cooling system enabling the machine to be used in noise sensitive areas like urban areas.

Reliability and Serviceability

- All daily maintenance points are accessible from ground level.
- Clean design, with colored and numbered electrical wires, protected by thick braiding for ease of service.
- Greasing points are centralized and kept to a minimum.
- Cat XT™-6 ES hoses are resistant and durable, which reduce the risk of leaks that can reduce the performance of the machine.
- Rigidity and long life with effective transmission protection and heavy duty axle.
- Standard heavy duty batteries for improved cold start capability.

Lower O&O Costs

- 500 hours fuel filter replacement (reduced to 250 hours if fuel quality is sub-standard) allows reduced maintenance cost.
- A water in fuel switch informs the operator when the water separator needs to be drained minimizing the risk of fuel system contamination. The electric fuel priming pump helps replace filters effectively preventing dirt from entering the system.
- Three working modes: Power mode, Eco Mode and Travel mode.
- Extended service intervals, meaning fewer required fluids and disposals, all adding up to lower operating costs.
- Ease of access to service points for reduced daily and weekly maintenance downtime.
- Cat Connect technology solutions increase production and minimize operating costs. Link technologies wirelessly connect you to your job site, providing machine location, hours, fuel usage, idle time and event codes.



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Engine

Engine Model (meets Stage IIIA equivalent emission standards)	Cat C7.1 ACERT
Ratings	2,000 rpm
Engine Power	
Maximum Gross – ISO 14396 (metric)	128.8 kW (175 hp)
Maximum Net – ISO 9249/SAE J1349 (metric)	123.5 kW (168 hp)
Bore	105 mm
Stroke	135 mm
Displacement	7.1 L
Maximum Torque at 1,400 rpm	862 N·m
Number of Cylinders – in line	6

Transmission

Maximum Forward/Reverse – 2nd Gear	37.0 km/h
Drawbar Pull	99.0 kN
Maximum Gradeability	60.0%

Swing Mechanism

Swing Speed	9.2 rpm
Swing Torque	43.4 kN·m

Undercarriage

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

Service Refill Capacities

Fuel Tank (total capacity)	385 L
Cooling System	36.5 L

Weights

Operating Weights*	19 000 to 20 000 kg
Weights – One-Piece Boom	
Front Dozer, Rear Outriggers	19 300 kg
Rear Dozer, Front Outriggers	19 300 kg
Front and Rear Outriggers	19 500 kg
Weights – VA Boom	
Front Dozer, Rear Outriggers	19 800 kg
Front and Rear Outriggers	20 000 kg
Weights – Sticks	
Medium – 2500 mm	930 kg
Long – 2800 mm	970 kg
Weights – Standard Counterweight	4000 kg

*Operating weight includes medium stick, 4000 kg counterweight, full fuel tank, operator, quick coupler (245 kg) bucket (695 kg) and dual pneumatic tires. Weight varies depending on configuration.

Hydraulic System

System	270 L
Implement Circuit – Maximum Pressure	
Normal	350 bar 35 000 kPa
Heavy Lift	370 bar 37 000 kPa
Travel Circuit	350 bar 35 000 kPa
Auxiliary Circuit – Maximum Pressure	
High Pressure	350 bar 35 000 kPa
Medium Pressure	185 bar 18 500 kPa
Swing Mechanism	310 bar 31 000 kPa
Maximum Flow	
Implement/Travel Circuit	280 L/min
Auxiliary Circuit – High Pressure	250 L/min
Auxiliary Circuit – Medium Pressure	49 L/min
Swing Mechanism	112 L/min

Working Ranges

Boom Option	VA Boom		One-Piece Boom	
	2500 mm	2800 mm	2500 mm	2800 mm
Stick Length	2500 mm	2800 mm	2500 mm	2800 mm
Digging Height	9950 mm	10 165 mm	8940 mm	9095 mm
Dump Height	6970 mm	7180 mm	6140 mm	6290 mm
Digging Depth	6035 mm	6330 mm	5980 mm	6280 mm
Reach at Ground Level	9270 mm	9565 mm	9295 mm	9580 mm
Bucket Forces (ISO 6015)	136 kN	136 kN	136 kN	136 kN
Stick Forces (ISO 6015)	95 kN	87 kN	95 kN	87 kN

- Range values are calculated with Bucket-GD, 1200 mm, 0.91 m³ with tips GP-GEN DUTY (K80) and CW-30 quick coupler with a tip radius of 1535 mm.
- Bucket and stick force values are calculated with heavy lift on (no quick coupler) and a tip radius of 1298 mm.

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