



Cat[®] M322D2 MH

Wheel Material Handler

Safe and Comfortable

- 2400 mm elevated cab; the cab raises quickly and offers comfortable operation, in all positions.
- Various grab handles and three large steps with anti-skid surfaces allow easy access to the cab, with three points of contact.
- Embedded devices to help enhance safety: anti-skid surfaces on all walking areas, swing and implement lock, emergency shut off switch and battery switch disconnect, adjustable travel alarm, lowering control devices ...
- Smart lighting – LED roading lights (rear) and halogen working lights.
- Great visibility – large glass areas, standard rearview camera, with wide angle lenses.
- Safe and quiet cab – low vibration and sound levels.

More Power, Less Fuel

- Cat[®] C7.1 engine with ACERT[™] Technology produces up to 128.8 kW/173 hp (175 metric hp). Auto Engine Speed Control, Power and Eco Modes available.
- A high capacity cooling system featuring an on-demand and reversible fan helps keep operating temperatures low, resulting in longer component life, higher efficiency and lower repair cost.
- Efficient hydraulic system to provide the work needed without wasting fuel, while providing precision and speed.
- The heavy lift mode maximizes performance by boosting the lifting capability by 7%.
- A closed hydraulic circuit is dedicated to the swing only. Having two separate pumps, one for the swing and the other for the other functions allows faster and smoother combined movements.

Easy and Pleasant Operation

- Smart features – Refinements on the smallest details and features, to help make operation easy and efficient: try the SmartBoom[™], automatic shift to the travel mode or Joystick Steering.
- Ergonomic and functional, with controls kept to the minimum, well located for an easy access. Comfortable seat options and standard air conditioning.

Be Flexible to Win

- Undercarriages – Choose the MH undercarriage for stability. The standard undercarriage allows for more flexibility, with a parallel blade at the front and stabilizers at the rear.
- Booms – MH boom for optimum reaching and lifting capabilities. Or combine the cab riser with an excavator front linkage.
- Sticks – MH 4900 mm Drop Nose Stick for typical MH applications, 4200 mm Straight Stick when additional work tool functionality is needed. For applications which do not require an MH stick (earthmoving applications), you can choose between the 2500 mm or 2800 mm stick.
- Dedicated Waste Handler Package*.
- Use the Tool Control System to pre-set the machine for up to ten different work tools.

Easy to Service

- Cat Product Link[™] remote monitoring helps you take the guesswork out of asset management.
- You can reach routine maintenance items like fuel and engine oil filters, engine air cleaner, or centralized fluid taps at ground level.
- Compartments feature wide service doors, which are all equipped with gas strut cylinders for easy opening and closing.
- An automatic lubrication system is a time-saving standard feature for greasing the whole uppercarriage.
- Add in the new electric lift pump removing the need to prime the system manually, and the standard fuel and water separator and you get a machine that does the fastidious maintenance services for you.

*Includes the reversible fan, dense wire mesh hood for the cooling system and an engine precleaner to enhance machine protection when working in dusty environments.



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Engine		
Engine Model	Cat C7.1 ACERT	
Emissions	Meets China III Non Road Equivalent to U.S. EPA Tier 3 and EU Stage IIIA	
Net Power (ISO 14396) @ 2,000 rpm	128.8 kW	173 hp (175 metric hp)
Bore	105 mm	
Stroke	135 mm	
Displacement	7.01 L	
Cylinders	6 in-line	
Maximum Torque @ 1,400 rpm	868 N·m	

Swing Mechanism	
Swing Speed	10.0 rpm
Swing Torque	48.0 kN·m

Transmission	
Maximum Travel Speed (2nd gear)	25 km/h
Creeper Speed (2nd gear)	13 km/h
Maximum Gradeability	47.2%

Service Refill Capabilities	
Fuel Tank	310 L
Cooling System	36 L
Engine Crankcase	15 L

Undercarriage	
Ground Clearance	360 mm
Oscillation Axle Angle	±5 degrees

Hydraulic System	
Tank Capacity	170 L
System Capacity	345 L

Hydraulic System: Maximum Pressure		
Implement Circuit (Normal/Heavy Lift)	350/375 bar	35 000/37 500 kPa
Travel Circuit	350 bar	35 000 kPa
Auxiliary Circuit		
Medium Pressure	205 bar	20 500 kPa
High Pressure	350 bar	35 000 kPa
Swing Mechanism	340 bar	34 000 kPa

Hydraulic System: Maximum Flow	
Implement/Travel Circuit	290 L/min
Auxiliary Circuit	
Medium Pressure	40 L/min
High Pressure	250 L/min
Swing Mechanism	112 L/min

Weights	
Operating Weights*	22 100-24 935 kg
With MH Boom (6400 mm)	
MH Undercarriage and Straight Stick	23 450 kg
MH Undercarriage and Drop Nose Stick	23 050 kg
Standard Undercarriage and Straight Stick	23 795 kg
With One-Piece Boom	
Front Blade, Rear Outriggers	22 665 kg
Counterweights	4000 kg

*With solid tires, counterweight, MH undercarriage, full fuel tank, operator and 1400 kg attachment. Weight varies depending on configuration.

Working Ranges				
Boom Type	6400 mm MH Boom		5350 mm One-Piece Boom	
Stick Type	Straight Stick	Drop Nose Stick	Digging Stick	
Stick Length	4200 mm	4900 mm	2500 mm	2800 mm
Maximum Height	11 485 mm	12 030 mm	8910 mm	9060 mm
Maximum Reach	10 350 mm	11 005 mm	9340 mm	9620 mm
Maximum Depth	1520 mm	2225 mm	5850 mm	6150 mm

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