



Cat[®] M324D2 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 and MH 5900 mm Drop Nose Sticks for typical MH applications, 4800 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 2900 mm stick.
- Dedicated Waste Handler Package*.
- Use the Tool Control System to pre-set the machine for up to ten different attachments (available with excavation front linkages).
- Factory-installed Cat Solid State Generator Set to power 15 kW magnets as well as work with the popular orange peel grapples used in scrap handling.

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. Gull-wing doors, with pneumatically-assisted lift cylinders, effortlessly lift up to allow critical maintenance to be performed easily and quickly.
- 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 Nonroad, 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 | 9.0 rpm |
| Swing Torque | 53 kN·m |

Transmission

| | |
|---------------------------------|---------|
| Maximum Travel Speed (2nd gear) | 25 km/h |
| Creeper Speed (2nd gear) | 9 km/h |
| Maximum Gradeability | 53% |

Service Refill Capabilities

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|------------------|-------|
| Fuel Tank | 385 L |
| Cooling System | 37 L |
| Engine Crankcase | 15 L |

Undercarriage

| | |
|------------------------|------------|
| Ground Clearance | 360 mm |
| Oscillation Axle Angle | ±5 degrees |

Hydraulic System

| | |
|-----------------|-------|
| Tank Capacity | 225 L |
| System Capacity | 405 L |

Hydraulic System: Maximum Pressure

| | | |
|-------------------|---------|------------|
| Implement Circuit | | |
| Normal | 350 bar | 35 000 kPa |
| Heavy Lift | 375 bar | 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 | 350 L/min |
| Auxiliary Circuit – High Pressure | 250 L/min |
| Auxiliary Circuit – Medium Pressure | 40 L/min |
| Swing Mechanism | 112 L/min |

Weights

| | |
|--|------------------|
| Operating Weights* | 23 570-26 660 kg |
| With MH Boom (6800 mm) | |
| MH Undercarriage and Straight Stick | 25 600 kg |
| MH Undercarriage and Drop Nose Stick (5.9 m) | 25 300 kg |
| With One-Piece Boom | |
| Standard Undercarriage and Straight Stick (2.5 m) | 25 250 kg |
| Front Blade, Rear Outriggers, 2.5 m Stick | 24 520 kg |
| Standard Counterweight | 5400 kg |

*With solid tires, standard counterweight, MH undercarriage, full fuel tank, operator, stick 2.5 m/5.9 m and 1400 kg attachment. Weight varies depending on configuration.

Working Ranges

| Boom Type | 6800 mm MH Boom | | |
|----------------|-----------------|-----------------|-----------------|
| Stick Type | Straight Stick | Drop Nose Stick | Drop Nose Stick |
| Stick Length | 4800 mm | 4900 mm | 5900 mm |
| Maximum Height | 12 430 mm | 12 500 mm | 13 300 mm |
| Maximum Reach | 11 430 mm | 11 530 mm | 12 480 mm |
| Maximum Depth | 1820 mm | 1920 mm | 2920 mm |

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AEXQ1630 (09-2015)

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