

Cat[®] М322D мн

WHEEL MATERIAL HANDLER

FEATURES:

- Engine The EU Stage IIIA compliant C6.6 offers increased performance and reliability while reducing fuel consumption and sound levels.
- Environmentally Responsible Design Helping to protect our environment, the engine has low operator and spectator sound levels, longer filter change intervals and is more fuel-efficient.
- Hydraulics The state of the art load-sensing hydraulic system provides you with faster cycle times and increased productivity on any material handling job.
- Serviceability For increased safety, all daily maintenance points are accessible from ground level. A centralized greasing system allows lubrication of critical points.
- Operator Comfort The totally redesigned operator station maximizes comfort while increasing safety. The available auto-weight adjusted air-suspension seat with heated and cooled ventilated cushions improves operator comfort. Safety is enhanced by the color monitor and standard rear-mounted camera.
- Undercarriage Various undercarriage configuration with blade and outriggers are available to provide the best solution for you.

Specifications

Engine

| Engine Model | Cat [®] C6.6 |
|-----------------------------|-------------------------|
| | with ACERT [™] |
| | Technology |
| Ratings | 2,000 rpm |
| Gross Power | 129 kW (175 hp) |
| Net Power | |
| ISO 9249 | 123 kW (167 hp) |
| EEC/80/1269 | 123 kW (167 hp) |
| Bore | 105 mm |
| Stroke | 127 mm |
| Displacement | 6.6 L |
| Cylinders | 6 |
| Maximum Torque at 1,400 rpm | 750 N⋅m |

- EU Stage IIIA (distributed through transitional provisions), ADSD-N EPA/ARB Flexibility Engine and non-current Tier 3 or Stage IIIA emissions for territories other than EU and ADSD-N.
- Full engine net power up to 3000 m altitude.

Hydraulic System

| nyunuuno oyotom | |
|--------------------------|-----------|
| Tank Capacity | 225 L |
| System | 350 L |
| Maximum Pressure | |
| Implement Circuit | |
| Normal | 350 bar |
| Heavy Lift | 375 bar |
| Travel Circuit | 350 bar |
| Auxiliary Circuit | |
| High Pressure | 350 bar |
| Medium Pressure | 200 bar |
| Swing Mechanism | 340 bar |
| Maximum Flow | |
| Implement/Travel Circuit | 350 L/min |
| Auxiliary Circuit | |
| High Pressure | 250 L/min |
| Medium Pressure | 40 L/min |
| Swing Mechanism | 112 L/min |
| | |



M322D мн Wheel Material Handler

Cab/FOGS

• Cab with Falling Object Guard Structure (FOGS) meets ISO 10262.

Weights

| MH Boom | |
|---------------------------------------|-----------|
| Rear Dozer Only | 20 400 kg |
| Rear Dozer, Front Outriggers | 21 600 kg |
| Front and Rear Outriggers | 21 850 kg |
| With MH Undercarriage | 22 900 kg |
| With MH Undercarriage and Push Blade | 23 600 kg |
| VA Boom | |
| Rear Dozer Only | 20 700 kg |
| Rear Dozer, Front Outriggers | 21 900 kg |
| Front and Rear Outriggers | 22 150 kg |
| With MH Undercarriage | 23 200 kg |
| With MH Undercarriage and Push Blade | 23 900 kg |
| One-Piece Boom | |
| Rear Dozer Only | 20 050 kg |
| Rear Dozer, Front Outriggers | 21 250 kg |
| Front and Rear Outriggers | 21 500 kg |
| With MH Undercarriage | 22 550 kg |
| With MH Undercarriage and Push Blade | 23 250 kg |
| Sticks | |
| MH Straight | 1100 kg |
| MH Drop Nose Short | 910 kg |
| MH Drop Nose Long | 1080 kg |
| Digging Short | 650 kg |
| Digging Medium | 700 kg |
| Digging Long | 780 kg |
| MH Push Blade (with MH Undercarriage) | 675 kg |
| Dozer Blade | 920 kg |
| Outriggers | 1260 kg |
| Counterweights | |
| Standard | 4400 kg |
| Optional | 5400 kg |
| | |

 M322D HCR – Machine weight with Hydraulic Cab Riser, medium stick/ MH 5.9 m stick, 4400 kg counterweight, with operator and full fuel tank, without work tool. Weight varies depending on configuration. Inflatable 10.00-20 tires.

Swing Mechanism

Swing Speed

Swing Torque

Transmission

| Forward/Reverse | |
|----------------------|---------|
| 1st Gear | 7 km/h |
| 2nd Gear | 25 km/h |
| Creeper Speed | |
| 1st Gear | 3 km/h |
| 2nd Gear | 12 km/h |
| Drawbar Pull | 112 kN |
| Maximum Gradeability | 52% |
| | |

Tire Options

• 10.00-20 (dual solid rubber)

• 11.00-20 (dual pneumatic)

Undercarriage

| Ulluercarriage | | |
|------------------------------------|---------|--|
| Ground Clearance | 380 mm | |
| Maximum Steering Angle | 35° | |
| Oscillation Axle Angle | ± 6° | |
| Minimum Turning Radius | | |
| Standard Axle | | |
| Outside of Tire | 6800 mm | |
| End of VA Boom | 7800 mm | |
| End of One-Piece Boom | 9300 mm | |
| Service Refill Capacities | | |
| Fuel Tank Capacity | 385 L | |
| Cooling | 37 L | |
| Engine Crankcase | 15 L | |
| Rear Axle Housing (Differential) | 14 L | |
| Front Steering Axle (Differential) | 11 L | |
| Final Drive | 2.5 L | |
| Powershift Transmission | 2.5 L | |
| | | |

Sound Levels

Exterior Sound

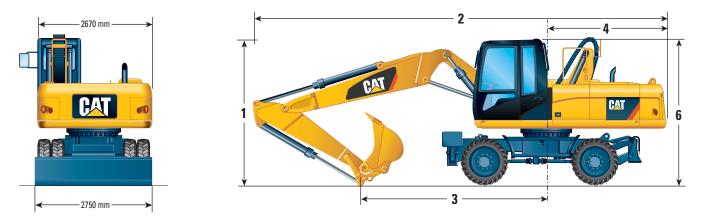
 The labeled spectator sound power level measured according to the test procedures and conditions specified in 2000/14/EC is 103 dB(A).

STANDARD EQUIPMENT (See M322D MH Wheel Material Handler Specalog [AEHQ6288-01] for list)

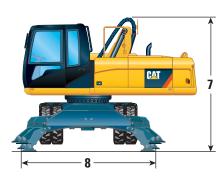
9 rpm

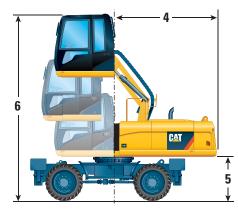
56 kN·m

OPTIONAL EQUIPMENT (See M322D MH Wheel Material Handler Specalog [AEHQ6288-01] for list)



Dimensions with Standard Undercarriage (with pneumatic tires) (All dimensions are approximate.)



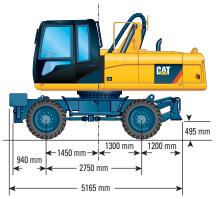


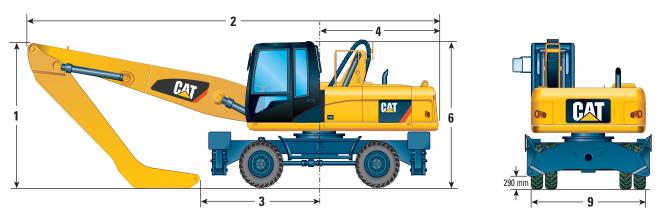
| | VA Boom | One-Piece Boom |
|---------------------------------------|---------|----------------|
| 1 Shipping Height* | | |
| 2200 mm Stick | 3400 mm | 3400 mm |
| 2500 mm Stick | 3400 mm | 3400 mm |
| 2900 mm Stick | 3400 mm | 3400 mm |
| 2 Shipping Length | | |
| 2200 mm Stick | 9550 mm | 9750 mm |
| 2500 mm Stick | 9550 mm | 9720 mm |
| 2900 mm Stick | 9540 mm | 9720 mm |
| 3 Support Point | | |
| 2200 mm Stick | 4380 mm | 4270 mm |
| 2500 mm Stick | 3830 mm | 3810 mm |
| 2900 mm Stick | 3530 mm | 3440 mm |
| 4 Tail Swing Radius | 2820 mm | 2820 mm |
| 5 Counterweight Clearance | 1310 mm | 1310 mm |
| 6 Cab Height with Hydraulic Cab Riser | | |
| Lowered | 3240 mm | 3240 mm |
| Raised | 5640 mm | 5640 mm |
| Lowered with Guard Falling Object | 3370 mm | 3370 mm |
| 7 Height of Tray Group Flex | 3400 mm | 3400 mm |
| 8 Stabilizer Width on Ground | 3960 mm | 3960 mm |

*Shipping height may depend of the height of the Tray Group Flex (7).



Undercarriage with 1 set of outriggers and dozer





Dimensions with MH Undercarriage (with pneumatic tires) (All dimensions are approximate.)

| 1 Shipping Height* | |
|---------------------------------------|--------------|
| 4800 mm Straight Stick | 3400 mm |
| 4900 mm Drop Nose Stick | 3600 mm |
| 5900 mm Drop Nose Stick (Removed) | 3400 mm |
| 5900 mm Drop Nose Stick (Installed) | 5285 mm |
| 2 Shipping Length | |
| 4800 mm Straight Stick | 9870 mm |
| 4900 mm Drop Nose Stick | 9870 mm |
| 5900 mm Drop Nose Stick (Removed) | 9930 mm |
| 5900 mm Drop Nose Stick (Installed) | 15 130 mm |
| 3 Support Point | ← 10→ |
| 4800 mm Straight Stick | 3250 mm |
| 4900 mm Drop Nose Stick | 3250 mm |
| 5900 mm Stick (fully extended) | 15 010 mm |
| Stick Removed | 7110 mm |
| 4 Tail Swing Radius | 2820 mm |
| 5 Counterweight Clearance | 1310 mm |
| 6 Cab Height with Hydraulic Cab Riser | |
| Lowered | 3240 mm |
| Raised | 5640 mm |
| Lowered with Guard Falling Object | 3370 mm |
| 7 Height of Tray Group Flex | 3400 mm |
| 8 Wheel Base | 2750 mm |
| 9 Undercarriage Width | 2990 mm |
| 10 Stabilizer Width on Ground | 4360 mm <11> |
| 11 Undercarriage Length | 5250 mm |
| | |

*Shipping height may depend of the height of the Tray Group Flex (7).

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AEHQ6332-01 (02-13) Replaces AEHQ6332

