



# Cat<sup>®</sup> MH3024

## Wheel Material Handler

### 2017

*We know that when it comes to material handling equipment, your success depends on productivity and low operating costs. The MH3024 is a purpose-built material handler, designed for industrial and recycling applications that call for safe, quality and reliable products.*

### Performance

- **Powerful and efficient** – Cat<sup>®</sup> C7.1 ACERT<sup>™</sup> engine meets U.S. EPA Tier 4 Final/EU Stage IV emission standards. Emissions technology is transparent – no action required from the operator and no stopping for regeneration.
- **Dedicated swing pump** – allows faster and smoother combined movements.
- **Refined hydraulic system** – provides increased precision and speed, while preserving fuel consumption.

### Efficiency

- **Fuel consumption** – reduced up to 10%\*, with no impact on your productivity to lower operating costs.
- **Built-in fuel savers** – eliminate waste thanks to Auto Engine Speed Control, Engine Idle Shutdown and enhanced Eco Mode.
- **High cooling efficiency** – axial fan keeps operating temperatures and costs low.

### Safety

- **Blue Angel certified** – with low vibrations and sound levels.
- **Options for specific applications** – Thicker high impact and impact resistant windshields fulfill respectively the EN356 P8B and P5A standards. A cab pre-filtration package reduces dust entry and air contamination.
- **Great visibility** – Large glass areas, LED lights for all working lights and cameras, with both displays split on the same screen.

### Ease of Operation

- **Enjoy integrated technologies** – They act transparently. Features like the Auto Brake and Axle Lock or Automatic Travel lock remove some of the tasks you had to do.
- **Smart technologies** – They help boost your productivity while making operation easier: try the optional SmartBoom<sup>™</sup> or Joystick steering.
- **Our cabs are unique** – It's a cab just for you where everything can be adjusted, from the seat to the work tools controls assignment on joysticks and pedal.

### Maintenance

- **Ground level access** – for routine maintenance items like fuel and engine oil filters or fluid taps.
- **Reduced maintenance** – Automatic features like electric lift pump and lubrication system along with long greasing intervals.

### Versatility

- **Various configurations** – from excavators' flexible offering to MH dedicated solutions. MH Boom, straight or drop nose stick and various undercarriages, including front push blade to meet your needs.
- **Various Waste Handling (WH) Packages options** – The "fine mesh" package protects the cooling hood from dust and includes an engine air pre-cleaner. The adjustable reversing fan and vibrating grill of the WH package add more protection.
- **Various attachments** – to tackle all kinds of jobs, from various grapple types to the 15 kW Cat Generator.

### Cat Connect Technology

- **Product Link<sup>™</sup>** connects owners to their equipment, providing access to machine data such as location, hours, fuel consumption, idle time and events, and diagnostic codes.

\*Versus previous D MH Series.



# Cat® MH3024 Wheel Material Handler

## Engine

Engine Model	Cat C7.1 ACERT	
Emissions	Tier 4 Final/Stage IV	
Maximum Gross (ISO 14396)	129.4 kW	174 hp (176 hp/PS*)
Maximum Net (ISO 9249/SAE J1349)	126 kW	169 hp (171 hp/PS*)
Bore	105 mm	4.1 in
Stroke	135 mm	5.3 in
Displacement	7.01 L	427.8 in <sup>3</sup>
Cylinders	6 in-line	
Maximum Torque @ 1,400 rpm	830 N-m	612 lbf-ft
*Metric values.		

## Swing Mechanism

Swing Speed	9 rpm	
Maximum Swing Torque	59 kN-m	43,516 lbf-ft

## Transmission

Maximum Travel Speed (2nd gear)	25 km/h	16 mph
Creeper Speed (2nd gear)	12 km/h	7.5 mph
Maximum Gradeability (25 000 kg/55,115 lb)	60%	

## Service Refill Capabilities

Fuel Tank	420 L	111 gal
Cooling System	46.9 L	12.3 gal
Diesel Exhaust Fluid Tank	34.5 L	9.1 gal
Hydraulic Tank Capacity	200 L	52.8 gal
Hydraulic System Capacity	352 L	93 gal

## Undercarriage

Axle Clearance (MH undercarriage)	325 mm	12.8 in
Oscillation Axle Angle	±5 degrees	

## Maximum Dimensions (approximate)

Maximum Shipping Height*	3635 mm	11'1"
Maximum Shipping Width	2990 mm	9'10"

\*5900 mm (19'4") stick needs to be detached for transportation.

## Hydraulic System: Maximum Pressure

Implement Circuit		
Normal	35 000 kPa	5,076 psi
Heavy Lift	37 000 kPa	5,366 psi
Travel Circuit	35 000 kPa	5,076 psi
Auxiliary Circuit		
Medium Pressure	21 000 kPa	3,046 psi
High Pressure	35 000 kPa	5,076 psi
Swing Mechanism	31 000 kPa	4,496 psi

## Hydraulic System: Maximum Flow

Implement/Travel Circuit	359 L/min	95 gal/min
Auxiliary Circuit – High Pressure	250 L/min	66 gal/min
Auxiliary Circuit – Medium Pressure	49 L/min	13 gal/min
Swing Mechanism	118 L/min	31.1 gal/min

## Weights

Operating Weights*	22 330- 27 000 kg	49,229- 59,525 lb
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### With MH Boom (6800 mm/22'4")

MH Undercarriage and Straight Stick	26 150 kg	57,651 lb
MH Undercarriage and Drop Nose Stick	25 770 kg	56,813 lb
Standard Undercarriage and Straight Stick	25 220 kg	55,601 lb

### Sticks

Straight (4800 mm/15'9")	1265 kg	2,789 lb
Drop Nose (4900 mm/16'1")	860 kg	1,896 lb
Drop Nose (5900 mm/19'4")	1080 kg	2,381 lb

### MH Push Blade

MH Push Blade	675 kg	1,488 lb
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### Counterweights

Standard	4100 kg	9,039 lb
Optional	5200 kg	11,464 lb

\*With solid tires, optional counterweight, MH undercarriage, fuel tank, operator and work tool, 1400 kg (3,086 lb). Weight varies depending on configuration.

## Working Ranges – without Work Tool

Stick Length	MH Boom (6800 mm/22'4")					
	4800 mm	15'9"	4900 mm	16'1"	5900 mm	19'4"
Maximum Height	12 425 mm	40'9"	12 505 mm	41'0"	13 300 mm	43'8"
Maximum Reach	11 435 mm	37'6"	11 530 mm	37'10"	12 485 mm	40'11"
Maximum Depth	1820 mm	6'0"	1920 mm	6'3"	2925 mm	9'7"

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