



# Cat<sup>®</sup> MH3059

## *Wheel Material Handler*

### Safe and Comfortable

Safety begins before you move material. Patented ground-level access to the cab – whether the cab is in front, behind or to the side of the machine – makes it easy for operators to get to work.

- MH3059 cab riser can reach 23 ft 6 in (eye level) in approximately 20 seconds and return to the ground in approximately 17 seconds
- Safety valves located in the cab and at ground level manually lower the cab in the event of power loss
- Joysticks in lieu of a steering wheel improve job site visibility and operator ingress/egress
- New touch screen MD4 display improves comfort and productivity
- Windows can be cleaned at ground level, quickly, easily
- Rearview camera on counterweight enhances visibility to worksite; additional right-hand side camera is available
- Stick limiter prevents work tool from coming into close proximity to the operator station
- Front and top cab guards protect operator from large debris
- Electro hydraulic controls can be customized to suit operator preferences
- Extensive railings and non-slip surfaces

### More Power, Less Fuel

Moving material takes strength. Moving material efficiently takes a smart, fuel-efficient design.

- Cat<sup>®</sup> C9 engine with ACERT<sup>™</sup> Technology produces up to 325 hp (242 kW) and meets U.S. EPA Tier 4 Final emission standards
- Equipped with a debris resistant cooling system with auto reversing fan and side by side coolers to maximize uptime
- Boom regeneration valve regenerates the flow of oil from the head end of the boom cylinder to the rod end of the cylinder during “boom down” operation, saving energy
- Upper and lower control valves divided for more efficient hydraulic utilization
- Fuel saving auto idle feature reduces the engine rpm back to idle after five seconds of inactivity and the auto engine shutdown feature will activate and turn off the engine after five minutes
- A dedicated swing pump, closed loop system provides swing priority at all times, providing improved power management and performance

### Structural Integrity

Purpose-built from the ground up to do one thing well - move material.

- Both boom and stick top and side plates are built from single plates of steel to eliminate the need for internal baffles and cross boom weld joints
- The tapered frame design evenly distributes loads and reduces stresses throughout the frame, providing a large stabilized footprint
- Enhanced sorting ability through the proprietary solid state generator control
- Fully-integrated swing bearing support structure improves load paths, increases bearing support, reduces number of welded joints, and maximizes frame torsional resistance
- Feathered welds and strengthened connections add to structural quality of front linkage
- Four wheel drive provides excellent maneuvering performance even on unimproved terrain

### Accessible

The easier it is to run maintenance checks and perform routine service, the faster you return to work.

- Cat Product Link<sup>™</sup> remote monitoring helps you take the guesswork out of asset management
- Ease of access to components and primary service points through convenient service panels and platforms on the sides and top of the machine
- Engine air pre-cleaner extends filter life
- Centralized test ports - hydraulic and electrical service points are co-located
- Machine operating system alerts operator and equipment maintenance staff of urgent maintenance tasks
- Improved routings hydraulic hoses and electrical wiring labeled to ease maintenance
- Automatic lubrication system is factory set, improving machine life and reducing operating costs
- Maintenance free cab riser bearings

**BUILT FOR IT.<sup>™</sup>**



# Cat® MH3059 Wheel Material Handler - Specifications\*\*

## Engine

Engine Model	Cat C7.1 ACERT	
Emissions	Tier 4 Final	
Net Power (ISO 9249)	242 kW	325 hp
Bore	112 mm	4.5"
Stroke	149 mm	5.9"
Displacement	8.8 L	568 in <sup>3</sup>
Cylinders	6 in-line	
Maximum Torque @ 1,400 rpm	1.48 kN·m	1092 lbf·ft

## Weights

Operating Weight (without work tool attachment)	58 967 kg	131,854 lb
Boom (with cylinders)	6260 kg	13,800 lb
Upper	28 531 kg	62,900 lb
Stick (with cylinders)	3629 kg	8,000 lb

## Swing Mechanism

Swing Speed	7.0 rpm	
Swing Torque	131 kN·m	93,000 lbf·ft
Swing System	Closed loop hydrostatic system with electro-proportional controls	
Maximum Swing Pump Flow	197 L/min	52 gal/min

## Transmission

Maximum Travel Speed	11.6 km/h	7.2 mph
Creeper Speed	3.7 km/h	2.3 mph
Maximum Gradeability	35%	

## Service Refill Capabilities

Fuel Tank	416 L	125 gal
Diesel Exhaust Fluid Tank	22.71 L	6.0 gal
Cooling System	36 L	14 gal
Engine Crankcase with Filter	33 L	8.7 gal
Hydraulic Tank	492 L	130 gal
Hydraulic System (including tank)	776 L	205 gal
Axle / Wheel Drive	7.6 L	2 gal

## Undercarriage

Ground Clearance at Lowest Point	273 mm	10.75"
Oscillation Axle Angle	±4 degrees	
Minimum Turning Radius (inside)	6.4 m	21'0"

## Hydraulic System: Maximum Pressure

Implement Circuit	33 095 kPa	4,800 psi
Travel Circuit	33 095 kPa	4,800 psi
Auxiliary Circuit – Medium Pressure		
Factory Setting	15 168 kPa	2,200 psi
Maximum Allowable Relief Setting	17 237 kPa	2,500 psi
Swing Circuit	37 921 kPa	5,500 psi

## Hydraulic System: Maximum Flow

Implement Circuit	636 L/min	168 gal/min
Auxiliary Circuit – High Pressure	300 L/min	79 gal/min
Auxiliary Circuit – Medium Pressure	95 L/min	25 gal/min
Operating Temperature	60-90° C	140-194° F

## Dimensions

All dimensions are approximate.

Shipping Height	4096 mm	13'5"
Shipping Length	14 542 mm	47'9"
Tail Swing Radius	3421 mm	11'3"
Counterweight Clearance	1737 mm	5'8"
Cab Clearance – Lowered to Ground*	241 mm	10"
Cab Height		
Transportation	3314 mm	10'10"
Raised to Top of FOGS Guard	7540 mm	24'9"
Wheel Base	3200 mm	10'6"
Undercarriage Width	3632 mm	11'11"
Stabilizer Width on Ground	5613 mm	18'5"
Shipping Width	3632 mm	11'11"

\*Factory set at 242 mm (9.5") – adjustable through the operating system to be lower or higher.

## Working Ranges Without Work Tool Attachment

Boom Length	10.8 m	35'5"
Stick Length	9.0 m	29'6"
Maximum Height	21.5 m	70'5"
Maximum Reach	19.3 m	63'5"
Maximum Depth	6.3 m	20'7"

\*\*All specifications are preliminary and subject to change.

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