



# Cat<sup>®</sup> MH3037

## Wheel Material Handler

### Safe and Comfortable

Safety begins before you move material. 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.

- MH3037 cab riser can reach 5.5 m (18'0") (eye level) in approximately eight seconds and return to the ground in approximately 10 seconds
- Safety valves located in the cab and at ground level manually lower the cab in the event of power loss
- Windows can be cleaned at ground level, quickly, easily
- Rear window doubles as emergency exit
- Rearview camera on counterweight enhances visibility to worksite
- Stick limiter prevents work tool from coming into close proximity to the operator station
- Front cab guard protects operator from debris
- Extensive railing and non-slip surfaces

### More Power, Less Fuel

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

- Cat<sup>®</sup> C7 engine with ACERT™ Technology produces up to 168 kW (225 hp)
- Oversized cooling system (rated for 202 kW [275 hp]) features a variable pitch fan – programmable from the cab to meet specific demands or purge debris at specified time intervals
- 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
- High-capacity hydraulic cooling system keeps operating temperatures low for longer component life, higher efficiency and lower repair cost
- A dedicated closed loop swing system provides swing priority at all times providing improved power management and performance

### Built for Production

One machine, two possible front configurations: short and long. Choose the one that’s right for your operation.

- The short front stick configuration provides 14.4 m (47'4") horizontal reach and 16.4 m (53'4") vertical pin height
- The long front stick configuration provides 15.9 m (52'0") horizontal reach and 17.7 m (58'0") vertical pin height
- 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 new tapered frame design evenly distributes loads and reduces stresses throughout the frame
- Feathered welds and strengthened connections add to structural quality of front linkage
- Enhanced sorting ability through the proprietary solid state generator control
- True four wheel drive with limited slip differentials front and rear provide excellent maneuvering performance even on unimproved terrain

### Easy to Service

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

- Cat Product Link™ remote monitoring helps you take the guesswork out of asset management
  - The MH3037 comes equipped with the new PL522 hardware
- Ease of access to components and primary service points through convenient service panels and platforms on the sides and top of the machine
- Spacious, well-lit compartments
- Centralized test ports
- Machine operating system alerts operator and equipment maintenance staff of urgent maintenance tasks
- Hydraulic cables and electrical wiring labeled to ease maintenance
- Automatic lubrication system is factory set to 15 minute intervals, improving machine life and reducing operating costs
- Less maintenance with greaseless bearings in the cab riser linkage

**BUILT FOR IT.™**



# Cat MH3037 Wheel Material Handler

## Engine

|                            |                      |                     |
|----------------------------|----------------------|---------------------|
| Engine Model               | Cat C7 ACERT         |                     |
| Emissions                  | Tier 3/EU Stage IIIA |                     |
| Net Power (ISO 9249)       | 168 kW               | 225 hp              |
| Bore                       | 110 mm               | 4.33"               |
| Stroke                     | 127 mm               | 5.0"                |
| Fuel Capacity              | 416 L                | 110 gal             |
| Displacement               | 7.2 L                | 442 in <sup>3</sup> |
| Cylinders                  | 6 in-line            |                     |
| Maximum Torque @ 1,400 rpm | 1.03 kN·m            | 758.2 lbf·ft        |

## Weights

|                               |           |           |
|-------------------------------|-----------|-----------|
| Operating Weight              | 37 600 kg | 82,900 lb |
| Boom Weight (with cylinders)  | 3517 kg   | 7,753 lb  |
| Stick Weight (with cylinders) | 1821 kg   | 4,015 lb  |

## Swing Mechanism

|                         |   |               |
|-------------------------|---|---------------|
| Swing Speed             | 8.2 rpm   |               |
| Swing Torque            | 84 kN·m   | 62,000 lbf·ft |
| Swing System            | Closed loop hydrostatic system with electro-proportional controls |               |
| Maximum Swing Pump Flow | 140 L/min   | 37 gal/min    |

## Transmission

|                      |          |          |
|----------------------|----------|----------|
| Maximum Travel Speed | 20 km/h  | 12.4 mph |
| Creeper Speed        | 5.3 km/h | 3.3 mph  |
| Maximum Gradeability | 35%      |          |

## Service Refill Capabilities

|                                   |       |         |
|-----------------------------------|-------|---------|
| Fuel Tank                         | 416 L | 110 gal |
| Cooling System                    | 36 L  | 9.5 gal |
| Engine Crankcase with Filter      | 28 L  | 7.4 gal |
| Final Drive (each)                | 6.0 L | 1.6 gal |
| Hydraulic Tank                    | 379 L | 100 gal |
| Hydraulic System (including tank) | 606 L | 160 gal |

## Outriggers

|                    |        |      |
|--------------------|--------|------|
| Ground Penetration | 140 mm | 5.5" |
|--------------------|--------|------|

## Undercarriage

|                                  |              |       |
|----------------------------------|--------------|-------|
| Ground Clearance at Lowest Point | 297 mm       | 11.7" |
| Oscillation Axle Angle           | ±2.5 degrees |       |
| Minimum Turning Radius (inside)  | 6.4 m        | 21'0" |

## Hydraulic System

|                 |                                  |         |
|-----------------|----------------------------------|---------|
| Controls        | Electro/hydraulic pilot controls |         |
| Tank Capacity   | 378.5 L                          | 100 gal |
| System Capacity | 606 L                            | 160 gal |

## Hydraulic System: Maximum Pressure

|                                     |            |           |
|-------------------------------------|------------|-----------|
| Implement Circuit                   | 31 716 kPa | 4,600 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                   | 519 L/min | 137 gal/min |
| Auxiliary Circuit – High Pressure   | 208 L/min | 55 gal/min  |
| Auxiliary Circuit – Medium Pressure | 76 L/min  | 20 gal/min  |
| Operating Temperature               | 60-73° C  | 140-164° F  |

## Dimensions

All dimensions are approximate.

|                                    |         |        |
|------------------------------------|---------|--------|
| Shipping Height                    | 3334 mm | 10'11" |
| Shipping Length                    | 12.6 m  | 41'2"  |
| Tail Swing Radius                  | 3147 mm | 10'4"  |
| Counterweight Clearance            | 1578 mm | 5'2"   |
| Cab Clearance – Lowered to Ground* | 242 mm  | 9.5"   |
| Cab Height                         |         |        |
| Transportation                     | 3314 mm | 10'10" |
| Raised to Top of FOGS Guard        | 5883 mm | 19'2"  |
| Wheel Base                         | 2998 mm | 9'10"  |
| Undercarriage Width                | 2995 mm | 9'10"  |
| Stabilizer Width on Ground         | 5033 mm | 16'6"  |
| Undercarriage Length               | 6510 mm | 21'4"  |
| Shipping Width                     | 3207 mm | 10'6"  |

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

## Working Ranges

|                | Long Front |       | Short Front |       |
|----------------|------------|-------|-------------|-------|
| Boom Length    | 8.84 m     | 29'0" | 8.84 m      | 29'0" |
| Stick Length   | 7.2 m      | 23'6" | 5.8 m       | 19'0" |
| Maximum Height | 17.7 m     | 58'0" | 16.4 m      | 53'4" |
| Maximum Reach  | 15.9 m     | 52'0" | 14.4 m      | 47'4" |
| Maximum Depth  | 4.9 m      | 16'0" | 3.6 m       | 11'9" |

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