

# PRODUCT SPECIFICATIONS FOR MH3022



## ENGINE

Engine Model	Cat C4.4
Engine Power - Maximum - ISO 14396	110 kW
Net Power - ISO 9249	108 kW
Bore	105 mm
Stroke	127 mm
Displacement	4.4 l

## TRANSMISSION

Maximum Travel Speed (with steering wheel)	20 km/h
Maximum Travel Speed (with joysticks)	15 km/h
Drawbar Pull	127 kN·m
Maximum Gradeability	65
Maximum Travel Speed - 2nd Gear	14.9 km/h
Maximum Travel Speed	20 km/h

## HYDRAULIC SYSTEM

Maximum Flow - Implement/Travel Circuit	306 l/min
Maximum Pressure - Implements	37000 kPa
Maximum Pressure - Travel	35000 kPa
Maximum Pressure - Swing	36500 kPa

## MACHINE WEIGHTS

Maximum Operating Weight	24500 kg
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Minimum Operating Weight	21200 kg
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## SERVICE REFILL CAPACITIES

Fuel Tank Capacity	350 l
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Diesel Exhaust Fluid Tank	30 l
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Cooling System	36 l
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Engine Oil	13 l
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Hydraulic Tank	155 l
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Hydraulic System - Including Tank	345 l
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Rear Axle - Housing (Differential)	14 l
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Front Steering Axle - Differential	10.5 l
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Final Drive - Each	2.5 l
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Powershift Transmission	2.5 l
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## SWING MECHANISM

Swing Speed	8.2 r/min
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Maximum Swing Torque	54 kN·m
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## DIMENSIONS

Boom	MH Boom 6.4 m (21'0")
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Stick	Straight 4.3 m (14'1")
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<b>Shipping Height (with FOGS)</b>	3350 mm
<b>Shipping Length</b>	6900 mm
<b>Shipping Length (with push blade)</b>	9860 mm
<b>Machine Length</b>	4950 mm
<b>Machine Length (with push blade)</b>	5390 mm
<b>Tail Swing Radius</b>	2600 mm
<b>Counterweight Clearance</b>	1300 mm
<b>Cab Height- Lowered</b>	3350 mm
<b>Cab Height- Lowered with FOGS</b>	3350 mm
<b>Cab Height-Raised</b>	5750 mm
<b>Cab Height- Raised with FOGS</b>	5750 mm
<b>Wheel Base</b>	2600 mm
<b>Shipping Width</b>	2540 mm
<b>Ground Clearance</b>	330 mm
<b>Undercarriage Length</b>	4900 mm
<b>Undercarriage Length (with push blade)</b>	5365 mm
<b>Upper Frame Width (including handrails)</b>	2540 mm

## **WORKING RANGES**

<b>Maximum Reach</b>	10280 mm
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<b>Boom</b>	MH Boom 6.4 m (21'0")
<b>Stick</b>	Straight 4.3 m (14'1")
<b>Maximum Height</b>	11710 mm
<b>Minimum Dump Height</b>	4290 mm
<b>Maximum Reach at Ground Line</b>	9800 mm
<b>Maximum Depth</b>	1500 mm
<b>Boom Pin Height</b>	8200 mm

## TRANSMISSIONS

<b>Maximum Travel Speed (with steering wheel)</b>	20 km/h
<b>Maximum Travel Speed (with joysticks)</b>	15 km/h

## MH3022 STANDARD EQUIPMENT

### CAB

Advanced sound-suppressed TOPS cab (ISO 12117-2 compliant)  
 Advanced sound-suppressed TOPS cab (ISO 12117-2 compliant)  
 Keyless push-to-start engine control  
 Tilt-up left-side console  
 LED dome lights

### CAT TECHNOLOGY

Cat Product Link  
 E-fence and cab avoidance  
 Cat Payload  
 Remote flash and services capability

### ELECTRICAL SYSTEM

Roading and indicator lights at front and rear  
 Maintenance-free batteries  
 LED chassis light, left-hand/right-hand boom and stick lights, cab lights -1800 lumens  
 Centralized electrical disconnect switch  
 Programmable time delay LED working lights

## **SERVICE AND MAINTENANCE**

Automatic lubrication system for implement and swing system  
S-O-S sampling ports

## **ENGINE**

C4.4 engine  
One-touch low idle with automatic engine speed control  
Automatic engine shutdown  
52°C (125°F) high-ambient capability  
Cold start capability-18°C (-0°F)  
Electric fuel priming pump  
Double element air filter with integrated precleaner  
On-demand electric cooling fans with auto-reverse function

## **HYDRAULIC SYSTEM**

Electric main control valve  
Automatic hydraulic oil warm up  
Automatic swing brake  
Separate dedicated swing pump  
Boom and stick lowering check valves  
Medium pressure auxiliary circuit  
Element type main hydraulic filter  
SmartBoom  
Smart Stick  
Heavy lift mode

## **SAFETY AND SECURITY**

Rear- and right-side-view cameras  
Secondary engine shutoff switch

## **UNDERCARRIAGE AND STRUCTURES**

2550 mm (8'4") wide undercarriage  
3700 kg (8,150 lb) counterweight  
All wheel drive  
Automatic brake/axle lock  
Creeper speed  
Heavy-duty axles, advanced disc brake system, and travel motor with adjustable braking force  
Lockable, oscillating front axle with remote greasing point

## **MH3022 OPTIONAL EQUIPMENT**

### **BOOMS AND STICKS**

6.4 m (21') Straight MH boom  
5.35 m (17'7") Straight MH boom

5.26 m (17'3") Variable Angle boom  
5.65 m (18'6") One-piece boom  
4.5 m (14'9") Drop Nose MH stick  
4.3 m (14'1") Straight MH stick  
4.0 m (13'1") Drop Nose MH stick  
5.0 m (16'5") Drop Nose MH stick  
2.9 m (9'6") Reach stick  
2.5 m (8'2") Reach stick  
No Stick Configuration

## **CAB**

Deluxe cab: air suspension heated seat, 10" touchscreen monitor  
Premium cab: air suspension heated seat, 10" touchscreen monitor  
Fixed one-piece laminated windshield and roof window (P5A glass)  
Fixed one-piece laminated windshield and roof window (P8B glass)  
Auxiliary relay

## **ELECTRICAL SYSTEM**

Electrical refueling pump

## **SAFETY AND SECURITY**

360° visibility  
Travel alarm

## **UNDERCARRIAGE AND STRUCTURES**

Push Blade  
10.00-20 dual solid rubber tires  
10.00-20 16 PR dual tires