



Cat[®] MH3040

Material Handler

The Cat[®] MH3040 material handler builds upon the legacy of the M325D L MH to provide the power and reliability you need for your toughest material handling applications. A new cab along with up to 25% reduced fuel costs and up to 20% reduced maintenance costs combine with proven components to bring you the next generation of Cat Material Handlers.

Not all features are available in all regions. Consult your Cat dealer for specific configurations available in your region.

Reliability and Durability You Can Count On

- Count on your machine to withstand wear throughout the years. Boom, sticks, and other high-stress areas are reinforced with thick multi-plate fabrications, castings, and forgings to ensure quality and reliability.
- The upper frame uses specially designed mountings to support the heavy-duty cab, and the lower frame is reinforced to enhance component durability.
- Work up to 3000 m (9,840 ft) above sea level without de-rating.
- Don't let the temperature stop you from working. The MH3040 has a standard high-ambient temperature capability of 43°C (109°F) and cold start capability of -20°C (-4°F). Consult your Caterpillar dealer for additional information on special configurations of your machine.
- Auto warm up speeds up hydraulic oil warming in cold temperatures and helps prolong the life of components.

High Performance with Lower Fuel Consumption

- Use up to 25 percent less fuel than the M325D L MH in similar applications.
- The C7.1 engine can run on biodiesel up to B20 and meets U.S. EPA Tier 4 Final/EU Stage V emission standards with an aftertreatment system that requires no maintenance or downtime.
- The advanced hydraulic system provides the optimum balance of power and efficiency while giving you the control you need.
- Valve priority puts hydraulic pressure and flow where you need it.
- Boost lifting capabilities and improve the controllability of heavy loads with heavy lift mode.
- Match your machine to the job with selectable power modes. Let Smart mode automatically match engine and hydraulic power to working conditions. Power mode constantly provides maximum productivity.
- Standard Product Link™ collects data automatically and accurately from your assets – any type and any brand. Information such as location, hours, fuel usage, productivity, idle time, maintenance alerts, diagnostic codes, and machine health can be viewed online through web and mobile applications.

Superior Serviceability

- Expect up to 20 percent lower maintenance costs than the M325D L MH.
- Track your machine's filter life and maintenance intervals via the in-cab monitor.
- No required maintenance on the Cat Clean Emissions Module.
- Change all fuel filters at a synchronized 1,000 hours.
- Expect the new air intake filter with precleaner to last up to 1,000 hours.
- The new hydraulic oil filter provides improved filtration performance, anti-drain valves to keep oil clean when the filter is replaced, and longer life with a 3,000-hour replacement interval – 50 percent longer than previous filter designs.
- High-efficiency, electrically driven cooling fans run only when needed; you can program intervals, so they automatically reverse to keep cores clean without interrupting your work.
- Fine mesh protects the cooling hood from dust and debris.
- S-O-SSM ports simplify maintenance, and allowing for quick, easy extraction of fluid samples for analysis.

Work in Comfort in the All-New Cab

- The wide seat adjusts for operators of all sizes.
- Get in and out of the cab easier using the tip-up left console.
- Control the machine comfortably with easy-to-reach controls all located in front of you.
- Standard automatic climate control keeps you at the right temperature all shift long.
- Stow your gear with plenty of in-cab storage beneath and behind the seat, overhead, and in the consoles. A cup holder, document holder, bottle holder, and coat hook are also provided.
- Use the standard radio's USB ports and Bluetooth[®] technology to connect to personal devices.



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Versatility Keeps You Productive and Profitable

- Equip your MH3040 with an optional 20 kW generator for magnet operation.
- Match your machine to the application. Multiple configurations allow you to customize your machine for millyard, scrap, and log loading applications.
- Expand your work capabilities with attachments for a variety of applications.

Safety

- Keep your machine secure with Operator ID. Use your PIN code on the monitor to enable the pushbutton starting feature.
- Enjoy all-around great visibility with the help of smaller cab pillars, larger windows, and a flat engine hood design. A rearview and right-hand side view camera are standard.
- Joystick steering eliminates the steering column, improving front visibility and increasing cab entrance width.
- New service platform design provides easy, safe, and quick access to the upper service platform; the service platform steps use anti-skid punch plate to prevent slipping.
- The standard hydraulic lockout lever isolates all hydraulic and travel functions in the lowered position.
- Optional Falling Object Guard System (FOGS) provides protection from falling and flying debris.
- Ground-level shutoff switch stops all fuel to the engine when activated and shuts down the machine.
- Boom and stick lowering check valves prevent reverse flow, keeping your front linkage securely in place should the hydraulic system unexpectedly lose power.

Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional		Standard	Optional
BOOM AND STICKS			HYDRAULIC SYSTEM		
9.3 m (30'6") Material Handler boom		✓	Electric main control valve	✓	
7.1 m (23'3") Industrial stick		✓	Boom and stick regeneration circuits	✓	
5.7 m (18'7") Industrial stick		✓	Automatic hydraulic oil warm up	✓	
Log Loader boom		✓	Boom and stick lowering control check valves		✓
Log Loader Over-Under front		✓	Tandem type electronic main pump	✓	
CAB			Element type main hydraulic filter	✓	
Advanced sound suppressed TOPS cab (ISO 12117-2 compliant) with rubber mount	✓		Fine swing control function	✓ ³	
High-resolution 254 mm (10") LCD touch screen monitor	✓		Heavy lift mode	✓	
Automatic bi-level air conditioner	✓		SmartBoom™		✓
Jog dial and shortcut keys for monitor control	✓		SAFETY AND SECURITY		
Keyless push-to-start engine control	✓		One key security system	✓	
Tilt-up left-side console	✓		Door and cap locks	✓	
Air suspension premium seat with headrest, heater, and ventilator	✓		Travel/swing lock	✓	
Fixed one-piece laminated windshield (P5A glass)	✓ ¹		Signaling/warning horn	✓	
Two-piece, high impact resistant laminated windshield (P8B)		✓ ²	Travel alarm	✓	
Dome and lower LED interior lights	✓		Secondary, ground-level engine shutoff switch	✓	
CAT TECHNOLOGY			Openable rear window as emergency exit	✓	
Cat Product Link™	✓		Bolt-on FOGS	✓ ¹	
Remote Services capability	✓		Rearview camera	✓	
ELECTRICAL SYSTEM			Right-side-view camera	✓	
Generator, 20 kW with wiring to stick nose		✓	Right-side front-view mirror	✓	
Maintenance-free battery	✓		UNDERCARRIAGE AND STRUCTURES		
LED chassis light, left-hand/right-hand boom lights, cab lights – 1800 lumens	✓		7700 kg (16,975 lb) counterweight	✓	
Centralized electrical disconnect switch	✓		16.00-25 single solid rubber tires		✓
Programmable time delay LED working lights after engine shutdown	✓		23.5-R25 XHA2 (Michelin) tires		✓
Rotating beacon		✓	All wheel drive	✓	
ENGINE			Automatic brake/axle lock	✓	
C7.1 Tier 4 Final diesel engine	✓		Creeper speed	✓	
Three selectable modes: Power, Smart, Eco	✓		Electronic swing and travel lock	✓	
4500 m (14,760 ft) altitude capability with engine power derate above 3000 m (9,840 ft)	✓		Heavy-duty axles, advanced disc brake system, and travel motor with adjustable braking force	✓	
43°C (109°F) high-ambient cooling capacity with derate	✓		Lockable and oscillating front axle with remote greasing point	✓	
-20°C (-4°F) cold start capability	✓		Two speed hydrostatic transmission	✓	
Cold start, block heater		✓	Tie down points on base frame (ISO 15818 compliant)	✓	
Cold start, ether start	✓ ³				
Reversible electric cooling fans	✓				

¹ Optional for Europe

² Europe only

³ North America only

Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area.

For additional information and additional regional offerings, refer to the Technical Specifications brochure available at www.cat.com or your Cat dealer.

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Technical Specifications

Engine

Engine Model	Cat C7.1	
Engine Power – ISO 14396:2002	152 kW	204 hp
Engine Power – ISO 9249:2007	151 kW	202 hp
Bore	105 mm	4 in
Stroke	135 mm	5 in
Displacement	7.0 L	428 in ³

- Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Recommended for use up to 4500 m (14,764 ft) altitude with engine power derate above 3000 m (9,842 ft).
- Net power available at the flywheel when the engine is equipped with fan, air cleaner, exhaust gas aftertreatment, and alternator with engine speed at 1,800 rpm.

Transmission

Maximum Travel Speed	18 km/h	11.2 mph
Drawbar Pull	154 kN	34,621 lbf
Maximum Gradeability	43.8%	

Hydraulic System

Main System – Maximum Flow	560 L/min (280 x 2 pumps)	148 gal/min (74 x 2 pumps)
Maximum Pressure – Implements	35 000 kPa	5,076 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	28 400 kPa	4,061 psi
Medium Pressure – Maximum Flow	60 L/min	16 gal/min
Medium Pressure – Max Pressure	23 000 kPa	3,336 psi

Swing Mechanism

Swing Speed	11.5 rpm	
Maximum Swing Torque	82 kN-m	60,628 lb-ft

Weights

Maximum Operating Weight	38 529 kg	84,940 lb
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Operating weight includes full fuel tank, operator, grapple 2000 kg (4,410 lb), and single tires. Weight varies depending on configuration.

Service Refill Capacities

Fuel Tank Capacity	474 L	125.2 gal
Cooling System	25 L	6.6 gal
Engine Oil	25 L	6.6 gal
Swing Drive	10 L	2.6 gal
Swing Drive (each)	5.5 L	1.5 gal
Rear Axle Housing (differential)	19 L	5 gal
Front Steering Axle (differential)	24 L	6.3 gal
Final Drive	6 L	1.6 gal
Powershift Transmission	2.9 L	0.8 gal
Hydraulic System (including tank)	329 L	86.9 gal
Hydraulic Tank	147 L	38.8 gal
DEF Tank	41 L	10.8 gal

Dimensions

Boom	MH Boom 9.3 m (30'6")	
Stick	7.1 m (23'3")	
Shipping Height with FOGS	3805 mm	12'6"
Shipping Length	12 800 mm	42'0"
Machine Length	6330 mm	20'9"
Tail Swing Radius	3130 mm	10'3"
Counterweight Clearance	1741 mm	5'9"
Cab Height – Lowered	3660 mm	12'0"
Cab Height – Lowered with FOGS	3805 mm	12'6"
Cab Height – Raised	6255 mm	20'6"
Cab Height – Raised with FOGS	6400 mm	21'0"
Wheel Base	3210 mm	10'6"
Shipping Width – outside tires*	3000 mm	9'10"
Ground Clearance (frame)	265 mm	0'10"
Undercarriage Length	6425 mm	21'1"
Upperframe Width	2957 mm	9'8"

*With solid tires. For pneumatic tires add 180 mm (0'7").

Working Ranges

Boom	MH Boom 9.3 m (30'6")	
Stick	7.1 m (23'3")	
Maximum Height	17 510 mm	57'5"
Maximum Dump Height	5445 mm	17'10"
Maximum Reach	15 490 mm	50'10"
Maximum Depth	5265 mm	17'3"
Boom Pin Height	12 195 mm	40'0"

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.2 kg of refrigerant which has a CO2 equivalent of 1.716 metric tons.

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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