



# Cat<sup>®</sup> MH3026

## Material Handler

***We know that when it comes to material handling equipment, your success depends on productivity and low operating costs. The Cat<sup>®</sup> MH3026 has simple-to-use technologies, a redesigned cab for enhanced comfort, and more machine options to match your work. Combine these features with up to 10 percent lower operating costs and you have a safe, quality, and reliable product that will provide you with the superior performance you need for your toughest indoor material handling applications.***

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

### **High Performance with Lower Fuel Consumption**

- Use up to 10 percent less fuel versus the previous model with no impact on your productivity.
- The C7.1 engine can run on biodiesel up to B20 and meets U.S. EPA Tier 4 Final and EU Stage V emission standards with an aftertreatment system that requires no maintenance or downtime.
- The advanced electro-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 improve the controllability of heavy loads with heavy lift mode.
- Program and store your preferred power mode and joystick settings using your operator ID. The machine will automatically remember your selections.

### **Versatility Keeps You Productive and Profitable**

- Match your machine to your application. Multiple configurations allow you to customize your machine to your needs.
- Equip your MH3026 with an optional 15 kW generator for magnet operation. Generator controls are fully integrated into the cab monitor.
- Expand your work capabilities with attachments for a variety of applications.

### **Boost Efficiency and Productivity with Cat Technologies**

- Achieve precise load targets and increase loading efficiency with standard Cat Payload which provides on-the-go weighing and real-time estimates of your payload without swinging.
- SmartBoom™ lets the boom freely travel up and down without using any pump flow so operators can focus on grapple control and have a smoother cycle.
- The Cat App helps you manage fleet location, hours, and maintenance schedules; it also alerts you for required maintenance and even allows you to request service from your local Cat dealer.
- Product Link™ comes standard so you can remotely monitor machine health, location, hours, and fuel consumption on demand.

### **Work in Comfort in the All-New Cab**

- Choose between Deluxe and Premium cab options.
- The Deluxe seat is heated and air adjustable, while the Premium seat is heated and ventilated and adjusts automatically.
- The cab has a wide seat that adjusts for operators of all sizes.
- Control the machine comfortably with easy-to-reach controls.
- 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<sup>®</sup> technology to connect to personal devices.



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## 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.
- Work up to 3000 m (9,840 ft) above sea level without derating.
- Don't let the temperature stop you from working. The material handler has a standard high-ambient temperature capability of 52°C (125°F) and cold start capability of -18°C (0°F).
- Auto warm up speeds up hydraulic oil warming in cold temperatures and helps prolong the life of components.

## Superior Serviceability

- Track your machine's filter life and maintenance intervals via the in-cab monitor.
- Change all fuel filters at a synchronized 1,000 hours.
- Expect the new air intake filter with cyclone 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.
- S-O-S<sup>SM</sup> ports simplify maintenance and allow for quick, easy extraction of fluid samples for analysis.

## Safety

- Cab Avoidance helps you avoid contact between your attachment and the cab.
- Standard 2D E-fence prevents your machine from moving outside operator-defined parameters.
- Keep your machine secure with Operator ID. Use your PIN code on the monitor to enable the push button starting feature.
- Access all daily maintenance points from ground level – no need for you to climb on top of the machine.
- Enjoy great all-around visibility with the help of smaller cab pillars, larger windows, and a flat engine hood design. Rearview and side-view cameras are standard along with optional 360° visibility system.
- Standard 1800-lumen LED lights on the chassis, boom, stick, and cab illuminate your surroundings for a safer work environment.
- Thicker high-impact and impact-resistant windshields fulfill EN356 P8B and P5A standards respectively.
- Cab air prefiltration reduces dust entry and air contamination. Upgrade to the optional Advanced Cabin Filtration system for additional protection against harmful particles.
- Joystick steering eliminates steering column, improving front visibility and increasing cab entrance width. There is an option for a steering wheel for operators who prefer it.
- The standard hydraulic lockout lever isolates all hydraulic and travel functions in the lowered position.
- 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 pressure.

## Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
<b>BOOMS AND STICKS</b>			<b>ENGINE</b>		
6.9 m (22'8") Straight MH boom		✓	Cat C7.1 single turbo diesel engine	✓	
7.5 m (24'7") Straight MH boom		✓	One-touch low idle with automatic engine speed control	✓	
5.0 m (16'5") Straight MH stick		✓	Automatic engine shutdown	✓	
5.5 m (18'1") Drop Nose MH stick		✓	52°C (125°F) high-ambient capability	✓	
6.0 m (19'8") Drop Nose MH stick		✓	-18°C (0°F) cold start capability	✓	
<b>CAB</b>			<b>HYDRAULIC SYSTEM</b>		
Advanced sound-suppressed TOPS cab (ISO 12117-2:2008 compliant)	✓		Electric main control valve	✓	
Deluxe cab: air suspension heated seat		✓	Automatic hydraulic oil warm up	✓	
Premium cab: air suspension heated and ventilated seat		✓	Automatic swing brake	✓	
10" touchscreen monitor	✓		Separate dedicated swing pump	✓	
Keyless push-to-start engine control	✓		Boom and stick lowering check valves	✓	
Tilt-up left-side console	✓		Medium pressure auxiliary circuit	✓	
Fixed one-piece laminated windshield and roof window (P5A glass)		✓	Element-type main hydraulic filter	✓	
Fixed two-piece laminated windshield and roof window (P8B glass)		✓	SmartBoom	✓	
LED dome lights	✓		Heavy lift mode	✓	
<b>CAT TECHNOLOGY</b>			<b>SAFETY AND SECURITY</b>		
Cat Product Link	✓		Rear- and right-side-view cameras	✓	
2D E-fence and cab avoidance	✓		360° visibility		✓
Cat Payload	✓		Travel alarm		✓
<b>ELECTRICAL SYSTEM</b>			Secondary engine shutoff switch		
Roading and indicator lights at front and rear	✓		<b>UNDERCARRIAGE AND STRUCTURES</b>		
Maintenance-free batteries	✓		2.99 m (9'10") wide undercarriage		✓
LED chassis light, left-hand/right-hand boom and stick lights, cab lights –1800 lumens	✓		2.99 m (9'10") wide undercarriage with push blade		✓
Centralized electrical disconnect switch	✓		5700 kg (12,550 lb) counterweight	✓	
Programmable time delay LED working lights	✓		10.00-20 dual solid rubber tires		✓
Electrical refueling pump		✓	11.00-20 16 dual pneumatic tires		✓
<b>SERVICE AND MAINTENANCE</b>			All wheel drive		
Automatic lubrication system for implement and swing system	✓		Automatic brake/axle lock	✓	
S•O•S sampling ports	✓		Creep speed	✓	
			Heavy-duty axles, advanced disc brake system, and travel motor with adjustable braking force	✓	
			Lockable, oscillating front axle with remote greasing point	✓	

**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](http://www.cat.com) or your Cat dealer.

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## Technical Specifications

### Engine

Engine Model	Cat C7.1	
Engine Power – ISO 14396:2002	129 kW	174 hp
Net Power – ISO 9249:2007	128 kW	171 hp
Bore	105 mm	4 in
Stroke	135 mm	5 in
Displacement	7.01L	427.8 in <sup>3</sup>

- The net power advertised is the power available at the flywheel when the engine is equipped with alternator, air cleaner, aftertreatment, and fan at minimum speed.
- The Cat C7.1 meets U.S. EPA Tier 4 Final and EU Stage V emission standards.

### Transmission

Maximum Travel Speed (with steering wheel)	20 km/h	12.4 mph
Maximum Travel Speed (with joysticks)	15 km/h	9.3 mph
Drawbar Pull	127 kN	28,550 lbf
Maximum Gradeability (at 27 500 kg/60,600 lb)	52%	

### Hydraulic System

Main System – Maximum Flow – Implements	360 L/min	95 gal/min
Maximum Pressure – Implements	37 000 kPa	5,366 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	39 000 kPa	5,656 psi

### Machine Weights

Minimum Operating Weight	26 400 kg	58,202 lb
Maximum Operating Weight	29 200 kg	64,375 lb

- Operating weight includes full fuel tank, operator, 1400 kg (3,086 lb) work tool. Weight varies depending on configuration.

### Service Refill Capacities

Fuel Tank Capacity	416 L	109.9 gal
Diesel Exhaust Fluid Tank	30 L	7.9 gal
Cooling System	40 L	10.6 gal
Engine Oil	20 L	5.3 gal
Hydraulic Tank	209 L	55.2 gal
Hydraulic System (including tank)	345 L	91.1 gal
Rear Axle (differential)	14 L	3.7 gal
Steering Axle (differential)	11 L	2.9 gal
Final Drive (each)	2.5 L	0.7 gal
Powershift Transmission	2.5 L	0.7 gal

### Swing Mechanism

Swing Speed	8.6 rpm	
Maximum Swing Torque	70 kN•m	51,800 lb-ft

### Dimensions

<b>Boom</b>	<b>MH Boom 7.5 m (24'7")</b>	
<b>Stick</b>	<b>Drop Nose 6.0 m (19'8")</b>	
Shipping Height with FOGS	3375 mm	11'1"
Shipping Length	10 700 mm	35'1"
Shipping Length (with push blade)	11 190 mm	36'9"
Machine Length	5450 mm	17'11"
Machine Length (with push blade)	6115 mm	20'1"
Tail Swing Radius	2800 mm	9'2"
Counterweight Clearance	1305 mm	4'3"
Cab Height – Lowered	3350 mm	11'0"
Cab Height – Lowered with FOGS	3375 mm	11'1"
Cab Height – Raised	5750 mm	18'10"
Cab Height – Raised with FOGS	5775 mm	18'11"
Wheel Base	2750 mm	9'0"
Shipping Width	2990 mm	9'10"
Ground Clearance	320 mm	1'1"
Undercarriage Length	5300 mm	17'5"
Undercarriage Length (with push blade)	5970 mm	19'7"
Upper Frame Width (including handrails)	2740 mm	9'0"

### Working Ranges

<b>Boom</b>	<b>MH Boom 7.5 m (24'7")</b>	
<b>Stick</b>	<b>Drop Nose 6.0 m (19'8")</b>	
Maximum Height	14 270 mm	46'10"
Minimum Dump Height	3810 mm	12'6"
Maximum Reach	13 000 mm	42'8"
Maximum Reach at Ground Line	12 850 mm	42'2"
Maximum Depth	2970 mm	9'9"
Boom Pin Height	9300 mm	30'6"

### Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.05 kg of refrigerant, which has a CO<sub>2</sub> equivalent of 1.502 metric tonnes.

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at [www.cat.com](http://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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AEXQ3267-00 (06-2021)  
Build Number: 07A  
(Europe, N Am, Aus-NZ)

