



Cat[®] MH3250

Material Handler

The Cat[®] MH3250 offers superior performance for your material handling applications. Featuring a spacious, ergonomic cab, the MH3250 offers a comfortable work environment to keep you productive all day long. Longer maintenance intervals and up to a 15% reduction in fuel consumption combine to provide up to 20% lower operating costs. The MH3250 provides the safety and reliability you need for your toughest 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 less fuel versus the 330D MH with no impact on your productivity.
- The C9.3B engine can run on biodiesel up to B20 and meets U.S. EPA Tier 4 Final emission standards.
- Match the machine to the job with three power modes – Power, Smart, and Eco. Smart mode automatically matches engine and hydraulic power to working conditions, providing max power when needed and reducing power when it isn't to save fuel.
- 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.
- The variable gauge undercarriage retracts for easy transportation and expands for increased stability and lifting capacity.
- Program and store your preferred power mode and joystick settings using your Operator ID. The machine will automatically remember your selections.
- 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

- The cab, with hydraulic cab riser, has a wide seat that adjusts for operators of all sizes and is heated and ventilated for optimum comfort.

- 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[®] technology to connect to personal devices.
- Machine settings can be controlled through the high-resolution, 10 inch, touchscreen monitor. It offers 42 languages and is easy to reach from the seat.

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 air intake filter with integrated precleaner air filter to last up to 1,000 hours in most applications.
- 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.
- The high-efficiency hydraulic fan has an optional automatic reverse function to keep ores free from debris, eliminating the need for any operator interaction.
- S-O-SSM ports simplify maintenance and allowing for quick, easy extraction of fluid samples for analysis.



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Safety

- Keep your machine secure with Operator ID. Use your PIN code on the monitor to enable the push button starting feature.
- Enjoy great all-around visibility with the help of smaller cab pillars, larger windows, and a flat engine hood design. Rearview and sideview cameras are standard.
- Standard 1800-lumen LED exterior lights illuminate your surroundings for a safer work environment.
- Thick impact-resistant windshields fulfill P5A standards.
- 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.
- Standard 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.
- In case of an emergency, lower the cab safely with the emergency cab lowering valve located behind the cab riser or to the right of the seat. The valve located behind the cab riser is easily accessible.
- Boom and stick lowering check valves prevent reverse flow, keeping your front linkage securely in place should the hydraulic system unexpectedly lose pressure.

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 2600 m (8,530 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 -32°C (-25°F).
- Auto warm up speeds up hydraulic oil warming in cold temperatures and helps prolong the life of components.

Versatility Keeps You Productive and Profitable

- Equip your MH3250 with an optional 25 kW generator for magnet operation.
- Expand your work capabilities with attachments for a variety of applications.

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
BOOMS AND STICKS			ENGINE (CONTINUED)		
9.2 m (30'2") material handler boom	✓		Dual stage 4 micron main filter and 10 micron primary filter with water separator and water separator indicator switch in fuel line	✓	
7.6 m (24'11") industrial stick	✓		HYDRAULIC SYSTEM		
CAB			Electric main control valve	✓	
Advanced sound-suppressed TOPS cab (ISO 12117-2 compliant) with rubber mount	✓		Automatic warm up and cold lock out	✓	
Material Handler cab: air suspension heated and ventilated seat, 10" monitor	✓		Automatic swing parking brake	✓	
Keyless push-to-start engine control	✓		Hydraulic main pump	✓	
Tilt-up left-side console	✓		Boom and stick lowering check valves	✓	
Fixed one-piece laminated windshield and glass hatch (P5A glass)	✓		Boom and stick regeneration circuit	✓	
LED dome and lower interior lights	✓		Medium pressure (grapple rotate) and cab riser valve	✓	
CAT TECHNOLOGY			Reverse swing damping valve	✓	
Cat Product Link	✓		High performance hydraulic return filter	✓	
Remote services capability	✓		Two speed travel	✓	
Remote flash capability	✓		Fine swing capability	✓	
ELECTRICAL SYSTEM			SAFETY AND SECURITY		
Generator, 25 kW with wiring to stick nose		✓	Rear- and right-side-view cameras	✓	
Maintenance-free batteries	✓		Right-hand handrail and hand hold (ISO 2867 compliant)	✓	
LED exterior lights (integrated into storage box and mounted on boom and stick sides)	✓		Signaling/warning horn	✓	
Centralized electrical disconnect switch	✓		Secondary engine shutoff switch	✓	
Power fuse module	✓		Caterpillar one key security system	✓	
Electronic Technician compatible	✓		Secure start with PIN code	✓	
SERVICE AND MAINTENANCE			Lockable external tool/storage box and fuel drain compartment	✓	
Service platform with anti-skid plate and recessed bolts	✓		Standard visibility mirror package	✓	
S•O•S sampling ports	✓		FOGS Guard	✓	
Grouped location for engine oil and fuel filters	✓		UNDERCARRIAGE AND STRUCTURES		
ENGINE			600 mm (24") triple grouser long variable gauge undercarriage, PPR2 (M24)	✓	
C9.3B engine	✓		Grease lubricated track GLT4, Resin seal	✓	
One-touch low idle with automatic engine speed control	✓		Guard, heavy duty bottom without swivel guard or travel motor protection (recessed bolts)	✓	
Automatic engine shutdown	✓		Guard, heavy duty travel motor protection	✓	
Electric fuel priming pump	✓		Towing eye on baseframe (ISO 15818 compliant)	✓	
Double element air filter with integrated precleaner	✓				
3000 m altitude capability with no derate	✓				
115 Amp alternator	✓				
Single plane 3 horizontal cooling system	✓				
Biodiesel capable (up to B20)	✓				

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 C9.3B	
Engine Power – ISO 14396:2002	234 kW	314 hp
Net Power – ISO 9249:2007	232 kW	311 hp
Bore	115 mm	5 in
Stroke	127 mm	5 in
Displacement	9.3 L	568 in ³

- The net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, exhaust gas aftertreatment and alternator.
- Meets U.S. EPA Tier 4 Final emission standards.
- Recommended for use up to 4500 m (14,760 ft) altitude with engine power derate above 3000 m (9,840 ft)
- Rated speed 1,800 rpm.

Transmission

Gradeability	35°/70%	
Maximum Travel Speed	3.4 km/h	2.1 mph
Maximum Drawbar Pull	246 kN	55,281 lbf

Hydraulic System

Main System – Maximum Flow	558 L/min (279 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	32 000 kPa	4,061 psi

Machine Weights

Operating Weight	48 850 kg	107,700 lb
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- MH boom, 7.6 m (24'11") industrial stick, 6.8mt (14,990 lb) counterweight, 600 mm (24") tripple grouser shoes, full fuel tank, 75 kg (165 lb) operator, 3000 kg (6,610 lb) grapple

Service Refill Capacities

Fuel Tank Capacity	600 L	158.5 gal
Cooling System	40 L	10.6 gal
Engine Oil (with filter)	32 L	8.5 gal
Swing Drive (each)	18 L	4.8 gal
Final Drive (each)	15 L	4.0 gal
Hydraulic System (including tank)	373 L	98.5 gal
Hydraulic tank	161 L	42.5 gal
DEF Tank	80 L	21.1 gal

Swing Mechanism

Swing Speed	8.84 rpm	
Maximum Swing Torque	142 kN•m	104,734 lb-ft

Dimensions

Boom	MH Boom 9.2 m (30'2")	
Stick	Industrial 7.6 m (24'11")	
Shipping Height (with FOGS, without stick)	3570 mm	11'9"
Shipping Length (without stick)	12 700 mm	41'8"
Machine Length (with boom/stick)	12 610 mm	41'4"
Tail Swing Radius	3530 mm	11'7"
Counterweight Clearance	1410 mm	4'8"
Cab Height – Lowered	3500 mm	11'6"
Cab Height – Lowered with FOGS	3570 mm	11'9"
Cab Height – Raised	6020 mm	19'9"
Cab Height – Raised with FOGS	6160 mm	20'3"
Ground Clearance	700 mm	2'4"
Track Length – Length to Center of Rollers	4340 mm	14'3"
Track Length	5350 mm	17'7"
Upper Frame Width (includes walkways and handrails)	3820 mm	12'6"
Track Gauge – Retracted	3220 mm	10'7"
Track Gauge – Extended	3720 mm	12'2"
Undercarriage Width – Retracted, 600 mm (24") shoes	4010 mm	13'2"
Undercarriage Width – Extended	4510 mm	14'10"

Working Ranges

Boom	MH Boom 9.2 m (30'2")	
Stick	Industrial 7.6 m (24'11")	
Maximum Height	16 850 mm	55'3"
Minimum Height	4090 mm	13'5"
Minimum Swing Radius – Front	3870 mm	12'8"
Maximum Reach	16 010 mm	52'6"
Maximum Depth	7090 mm	23'3"
Boom Pin Height	11 450 mm	37'7"

- Dimensions refer to stick nose pin

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 tonnes.

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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PEDJ0726-00 (04-2021)

Build Number: 07A

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