



# MH3295

## Material Handler

***The Cat® MH3295 material handler is built for productivity, safety, and long-term value. With a purpose-built design, advanced electro-hydraulic controls, and a smooth, dedicated swing pump, operators can move more material with great precision and less effort. The wide undercarriage helps ensure machine stability, while shared service parts and easy-access maintenance features help reduce downtime and operating costs. A comfortable cab, high visibility, and technologies like Cat Payload and 2D E-fence help operators work efficiently and safely all day. The MH3295 is designed to help boost jobsite performance and deliver long lasting durability.***

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

### High Performance

- The C18 engine meets U.S. EPA Tier 4 Final, EU Stage V, Japan 2014, and China Nonroad Stage IV 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, helping provide maximum power when needed and reducing power when it isn't to save fuel.
- The advanced electro-hydraulic system helps provide the optimum balance of power and efficiency while giving you the control you need.
- Available SmartBoom™ lets the boom freely travel up and down without using any pump flow so operators can focus on stick and bucket work.
- Valve priority helps put hydraulic pressure and flow where you need it.
- The variable gauge undercarriage retracts for easy transportation and expands to help increase 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.

### Integrated Cat® Technologies

- Cat Payload helps you achieve precise load targets to improve your operating efficiency. Pick up a load of material with a grapple attachment and get a real-time weight estimate without swinging.
- VisionLink™ provides actionable data insights for all assets – regardless of fleet size or equipment manufacturer. \*Review equipment data from your desktop or mobile device to maximize uptime and optimize assets. Dashboards provide information such as hours, miles, location, idle time, and fuel utilization. Make informed decisions that lower costs, simplify maintenance, and improve safety and security on your jobsite.
- Swing Assist automatically stops machine swing at operator-defined preset points. Simply swing to the desired stopping point and activate using the machine monitor or a preset joystick button. As you get closer, the machine will automatically decelerate and not allow swing past the set point. Swing Assist helps you hit more repetitive swing targets to help reduce fuel use and improve cycle times.
- Remote Troubleshoot is a mobile application that allows your Cat dealer to perform diagnostic testing on your connected machine remotely to help ensure that issues are resolved quickly and with less downtime.
- Remote Flash is a mobile application that allows you to update onboard software without a technician being present, allowing you to initiate software updates when convenient, increasing your overall operating efficiency.

*\*Data field availability can vary by equipment manufacturer.*



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## Work in Comfort

- The cab has a wide seat that adjusts for operators of all sizes.
- 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.
- Connect to personal devices via the standard radio's USB ports and Bluetooth® technology.
- Optional auxiliary relay powers on and turns off CB radios, beacon lights, and other attachments without taking your hands off the joysticks.
- Cat continues to improve user interface functionality for operators of all skill levels. The touchscreen monitor is an easy-to-use operating tool that presents the jobsite dashboard with an intuitive format.
- Productivity applications are displayed in grid view to read on the go, and touchscreen navigation is programmed to ensure job performance continues without any hold-ups.

## Reliable, Durable, and Versatile

- 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 help ensure quality and reliability.
- Work up to 3000 m (9,840 ft) above sea level without de-rating.
- Don't let the temperature stop you from working. The machine has a standard 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.
- Expand your work capabilities with attachments for a variety of applications.

## Maintenance

- Track your machine's filter life and maintenance intervals via the in-cab monitor.
- Scheduled Oil Sampling (S-O-S<sup>SM</sup>) ports are located at ground level, helping simplify maintenance and allowing for quick, easy extraction of fluid samples for analysis.
- The long life of the air intake filter with pre-cleaner helps save on maintenance costs.
- The hydraulic oil filter helps provide high filtration performance, anti-drain valves to help keep oil clean when the filter is replaced, and long life with a 3,000-hour replacement interval.
- High-efficiency cooling fans run only when needed; you can program intervals so they automatically reverse to help keep cores clean without interrupting your work.
- Boost productivity with proactive service reminders. The integrated vehicle health management system alerts the operator with step-by-step service guidance and the parts needed to help reduce unnecessary downtime.

## Safety Features

- Cab Avoidance helps you avoid contact between your worktool attachment and the cab.
- Standard 2D E-fence prevents your machine from moving outside operator-defined parameters.
- The secondary engine shutoff switch stops all fuel to the engine when activated and shuts down the machine.
- 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 small cab pillars and large windows. Rearview, left-side, and right-side-view cameras are standard.
- Standard 1,800-lumen LED exterior lights illuminate your surroundings for a safer work environment.
- Service platform design provides easy, safe, and quick access to the upper service platform. The service platform steps use an anti-skid punch plate to help prevent slipping.
- The rear cab door entry design features enclosed stairways and integrated lights for well-lit access in all working conditions.
- Boom and stick lowering check valves prevent reverse flow, keeping your front linkage securely in place should the hydraulic system unexpectedly lose pressure.
- Make service work more accessible and safer with optional inspection lighting. With the flip of a switch, lights will illuminate the engine pump, battery, and radiator compartments to enhance visibility.

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

	Standard	Optional
<b>UNDERCARRIAGE AND STRUCTURES</b>		
Counterweight 15 450 kg (34,060 lb)		✓
Counterweight 17 400 kg (38,360 lb)		✓
<b>BOOMS AND STICKS</b>		
Short Boom 10.6 m (34'9")	✓	
8.1 m (26'7") Drop Nose stick	✓	
<b>CAT TECHNOLOGY</b>		
VisionLink™	✓	
Remote Flash and Remote Troubleshoot	✓	
Cat Payload	✓	
<b>CAB</b>		
High-resolution 254 mm (10") LCD touchscreen monitor	✓	
Automatic bi-level air conditioner	✓	
Keyless push-to-start engine control	✓	
Heated and cooled seat with air-adjustable suspension	✓	
1829 mm (72") fixed riser	✓	
Polycarbonate windows	✓	
LED dome and floor lights	✓	
Rear entry	✓	
Auxiliary relay		✓
<b>ENGINE</b>		
Three selectable modes: Power, Smart, Eco	✓	
Up to 3000 m (9,840 ft) altitude capability without engine power de-rate	✓	
Cold start capability –18°C (0°F)	✓	
Double element air filter with integrated pre-cleaner	✓	
Automatic engine speed control	✓	
95 amp alternator	✓	
Single plane three horizontal cooling system	✓	
On-demand electric cooling fans with auto-reverse function	✓	
<b>ELECTRICAL SYSTEM</b>		
Maintenance-free batteries	✓	
LED lights on boom, stick, cab, and storage box	✓	
Centralized electrical disconnect switch	✓	
Power fuse module	✓	

	Standard	Optional
<b>SERVICE AND MAINTENANCE</b>		
Scheduled Oil Sampling (S-O-S <sup>SM</sup> ) ports	✓	
Grouped location for engine oil and fuel filters	✓	
<b>HYDRAULIC SYSTEM</b>		
Electronic main control valve	✓	
Automatic hydraulic oil warm up	✓	
Automatic swing brake	✓	
Boom and stick lowering check valves	✓	
Boom and stick regeneration circuit	✓	
Medium pressure (grapple rotate)	✓	
High performance hydraulic return filter	✓	
Two travel speed modes	✓	
Joystick steering		✓
<b>SAFETY AND SECURITY</b>		
Right-hand handrail and hand hold	✓	
Signal/warning horn	✓	
Secondary engine shutoff switch	✓	
Rearview, left-side, and right-side-view cameras	✓	
Cab avoidance	✓	
2D E-fence	✓	
Swing Assist	✓	
Lockable external tool/storage box and fuel drain compartment	✓	
Easy lock cab tilting system	✓	
Inspection lighting		✓

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## Technical Specifications

Engine		
Engine Model	Cat C18	
Net Power – ISO 9249	404 kW	542 hp
Net Power – ISO 9249 (DIN)	550 hp (metric)	
Engine Power – ISO 14396	405 kW	543 hp
Engine Power – ISO 14396 (DIN)	551 hp (metric)	
Bore	145 mm	6 in
Stroke	183 mm	7 in
Displacement	18.1 L	1,105 in <sup>3</sup>
Biodiesel Capability	Up to B20 <sup>1</sup>	
Emissions	Meets U.S. EPA Tier 4 Final, EU Stage V, Japan 2014, and China Nonroad Stage IV emission standards.	

Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, Clean Emission Module (CEM) exhaust gas aftertreatment, alternator, and cooling fan running at intermediate speed. Rated speed 1,900 rpm. Advertised power is tested per the specified standard in effect at the time of manufacture.

<sup>1</sup>Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) and are compatible\* with ULSD blended with the following lower-carbon intensity fuels\*\* up to: 20% biodiesel FAME (fatty acid methyl ester)\*\*\* or 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels. Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations” (SEBU6250) for details.

\*While Caterpillar engines are compatible with these alternative fuels, some regions may not allow their use.

\*\*Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

\*\*\*Engines with no aftertreatment devices are compatible with higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).

Transmission		
Maximum Travel Speed	4.5 km/h	2.8 mile/h
Maximum Drawbar Pull	580 kN	53,729 lbf
Gradeability	28°/53%	
Hydraulic System		
Maximum Pressure – Implements	35 000 kPa	5,080 psi
Maximum Pressure – Swing	31 000 kPa	4,496 psi
Maximum Pressure – Travel	35 000 kPa	5,080 psi
Swing Mechanism		
Swing Speed*	5.4 r/min	
Swing Torque	362 kN·m	267,300 lbf·ft

\*For CE-marked machine default value may be set lower.

Weights		
Operating Weight	100 700 kg	222,100 lb
Operating weight includes 10.6 m (34'9") Short boom, 8.1 m (26'7") Drop Nose stick, 750 mm (30") double grouser shoes, 15.5 mt (34,060 lb) counterweight and no work tool.		
Service Refill Capacities		
Fuel Tank Capacity	1220 L	322.3 gal
Cooling System	71 L	18.8 gal
Engine Oil	67 L	17.7 gal
Final Drive – Each	20 L	5.3 gal
Hydraulic System – Including Tank	740 L	195.5 gal
Hydraulic Tank	432 L	114.1 gal
Diesel Exhaust Fluid (DEF) Tank	80 L	21.1 gal

Dimensions		
Boom	Short Boom 10.6 m (34'9")	
Stick	8.1 m (26'7") Drop Nose stick	
Shipping Length (without stick)	10 460 mm	34.3 ft
Upper Frame Width (includes walkways and handrails)	5850 mm	19.2 ft
Tail Swing Radius	4840 mm	15.9 ft
Counterweight Clearance	1700 mm	5.6 ft
Ground Clearance	850 mm	2.8 ft
Track Length to Center of Rollers	5900 mm	19.4 ft
Track Length	7150 mm	23.5 ft
Track Gauge – Retracted	4080 mm	13.4 ft
Track Gauge – Extended	4840 mm	15.9 ft
Undercarriage Width-Retracted, 750 mm (30") shoes	5020 mm	16.5 ft
Undercarriage Width-Extended	5780 mm	19 ft

Working Ranges		
Boom	Short Boom 10.6 m (34'9")	
Stick	8.1 m (26'7") Drop Nose stick	
Maximum Reach	17 590 mm	57.7 ft
Maximum Height	18 040 mm	59.2 ft
Minimum Swing Radius-Front	5880 mm	19.3 ft
Maximum Depth	7060 mm	23.2 ft
Boom Pin Height	13 460 mm	44.2 ft

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