



Cat[®] MH3024

Material Handler

We know that when it comes to material handling equipment, your success depends on productivity and low operating costs. The Cat[®] MH3024 is a purpose-built material handler that will provide you with the superior performance you need for your toughest waste and scrapyards applications. The MH3024 features simple-to-use technologies, a redesigned cab for enhanced comfort, and more boom options to match your work. Combine these features with up to 10% lower operating costs and up to 20% greater swing torque, and you have a safe, quality, and reliable product to take on the wide variety of challenges you face each day.

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% less fuel versus the previous model with no impact on your productivity.
- Get the job done faster with up to 20% greater swing torque.
- The C4.4 engine can run on biodiesel up to B20 and meets EU Stage IIIA and U.S. EPA Tier 3 emission standards.
- 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 and 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, reducing operator stress and fuel consumption.
- 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.

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 MH3024 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.

Work in Comfort in the All-New Cab

- The Deluxe seat is heated and air adjustable.
- 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® 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.

Safety

- Cab Avoidance helps you avoid contact between your attachment and the cab.
- Standard 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 sideview cameras are standard along with optional 360-degree 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 P5A standards respectively.
- Cab air pre-filtration 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.
- 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 pressure.

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% 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-SSM ports simplify maintenance and allowing for quick, easy extraction of fluid samples for analysis.

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
BOOMS AND STICKS			ENGINE		
7.45 m (24'5") Straight MH boom		✓	C4.4 engine	✓	
6.4 m (21') Straight MH boom		✓	One-touch low idle with automatic engine speed control	✓	
5.0 m (16'5") Drop Nose MH stick		✓	Automatic engine shutdown	✓	
4.3 m (14'1") Straight MH stick		✓	52°C (125°F) high-ambient capability	✓	
CAB			-18°C (0°F) cold start capability	✓	
Advanced sound-suppressed TOPS cab (ISO 12117-2 compliant)	✓		Electric fuel priming pump	✓	
Deluxe cab: air suspension heated seat, 10" (254 mm) touchscreen monitor	✓		Double element air filter with integrated precleaner	✓	
Keyless push-to-start engine control	✓		On-demand electric cooling fans with auto-reverse function	✓	
Tilt-up left-side console	✓		HYDRAULIC SYSTEM		
Fixed one-piece laminated windshield and roof window (P5A glass)	✓		Electric main control valve	✓	
LED dome lights	✓		Automatic hydraulic oil warm up	✓	
CAT TECHNOLOGY			Automatic swing brake	✓	
Cat Product Link	✓		Separate dedicated swing pump	✓	
2D E-fence and cab avoidance	✓		Boom and stick lowering check valves	✓	
Remote flash and services capability	✓		Medium pressure auxiliary circuit	✓	
ELECTRICAL SYSTEM			Element type main hydraulic filter	✓	
Roading and indicator lights at front and rear	✓		SmartBoom™	✓	
Maintenance-free batteries	✓		Heavy lift mode	✓	
LED left-hand-side, right-hand-side and rear lights for cameras installed on chassis		✓	SAFETY AND SECURITY		
Centralized electrical disconnect switch	✓		Rear- and right-side-view cameras	✓	
Programmable time delay LED working lights	✓		Travel alarm		✓
Electrical refueling pump		✓	Secondary engine shutoff switch	✓	
SERVICE AND MAINTENANCE			UNDERCARRIAGE AND STRUCTURES		
Automatic lubrication system for implement and swing system	✓		2.75 m (9'0") wide undercarriage		✓
S•O•S sampling ports	✓		2.99 m (9'10") wide undercarriage		✓
			4200 kg (9,250 lb) counterweight		✓
			4700 kg (10,350 lb) counterweight		✓
			Push blade		✓
			10.00-20 dual solid rubber tires		✓
			11.00-20 16 PR dual tires		✓
			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	✓	

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 C4.4	
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	4.4 L	269 in ³

- The net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system, and alternator.
- Meets EU Stage IIIA and U.S. EPA Tier 3 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	65%	

Hydraulic System

Main System – Maximum Flow – Implements	306 L/min	81 gal/min
Maximum Pressure – Implements	37 000 kPa	5,366 psi
Maximum Pressure – Travel	35 000 kPa	5,075 psi
Maximum Pressure – Swing	39 000 kPa	5,656 psi

Machine Weights

Maximum Operating Weight	26 500 kg	58,420 lb
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• 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	350 L	92.5 gal
Cooling System	36 L	9.5 gal
Engine Oil	13 L	3.4 gal
Hydraulic Tank	155 L	40.9 gal
Hydraulic System (including tank)	345 L	91.1 gal
Rear Axle (differential)	14 L	3.7 gal
Steering Axle (differential)	10.5 L	2.8 gal
Final Drive (each)	2.5 L	0.7 gal
Powershift Transmission	2.5 L	0.7 gal

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 CO₂ equivalent of 1.502 metric tonnes.

Swing Mechanism

Swing Speed	8.2 rpm	
Maximum Swing Torque	58 kN•m	42,631 lb-ft

Dimensions

Boom	MH Boom 7.45 m (24'5")	
Stick	Drop Nose 5.0 m (16'5")	
Undercarriage (wide)	3000 mm	9'10"
Shipping Height with FOGS	3350 mm	11'0"
Shipping Length	10 670 mm	35'0"
Shipping Length (with push blade)	11 130 mm	36'6"
Machine Length	5290 mm	17'4"
Machine Length (with push blade)	5740 mm	18'10"
Tail Swing Radius	2600 mm	8'6"
Counterweight Clearance	1300 mm	4'3"
Cab Height – Lowered	3350 mm	11'0"
Cab Height – Lowered with FOGS	3350 mm	11'0"
Cab Height – Raised	5750 mm	18'10"
Cab Height – Raised with FOGS	5750 mm	18'10"
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)	5740 mm	18'10"
Upper Frame Width (including handrails)	2540 mm	8'4"

Working Ranges

Boom	MH Boom 7.45 m (24'5")	
Stick	Drop Nose 5.0 m (16'5")	
Maximum Height	13 030 mm	42'9"
Minimum Dump Height	4520 mm	14'10"
Maximum Reach	12 010 mm	39'5"
Maximum Reach at Ground Line	11 870 mm	38'11"
Maximum Depth	3010 mm	9'11"
Boom Pin Height	9260 mm	30'5"



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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