

MH3050

WHEEL MATERIAL HANDLER

The Cat® MH3050 offers superior performance within its size class. A wide undercarriage and stabilizer footprint keep the machine sturdily in place, while the boom and stick options combine to provide up to 18 m (59'1") reach. The MH3050 combines components from next generation Cat excavators with the material handler cab to bring you maximized productivity, enhanced comfort, and the reliability you expect from your machine.



SUPERIOR PERFORMANCE

A reach offering up to 18 m (59'1") let's you move more material without repositioning the machine while a wide undercarriage helps provide 360 degree stability. Add the optional 25 kw generator, with fully integrated controls, for magnet operation.

ENHANCED COMFORT

Operate with ease in cab comfort options of your choice and better visibility with 360° machine view.

PROVEN RELIABILITY

The MH3050 is built from proven components designed to withstand the toughest applications. Count on your machine to provide the durability and reliability you expect from Cat products.

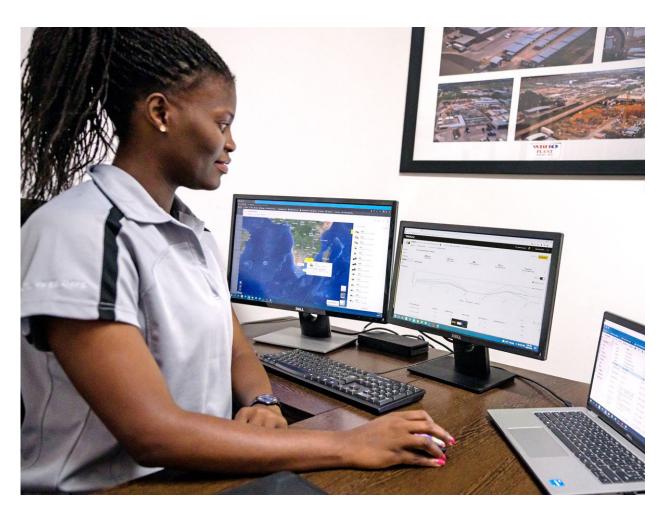


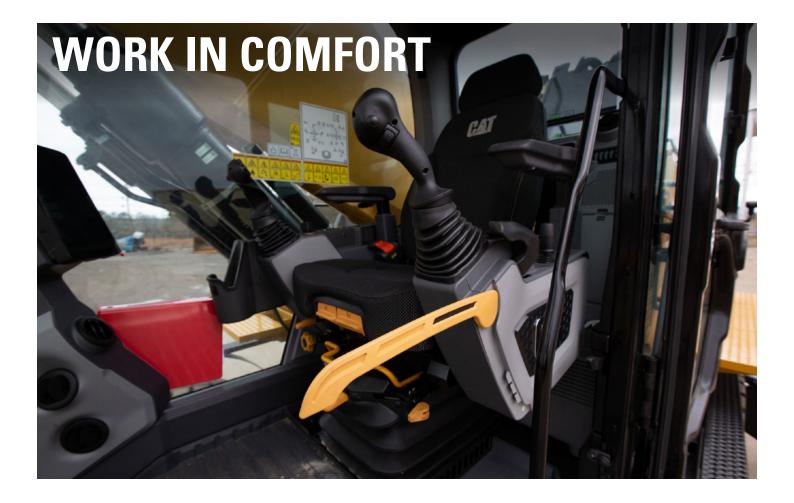
- The C9.3B turbo diesel engine can run on biodiesel up to B20 and meets US EPA Tier 4 Final and EU Stage V Final emissions standards with an aftertreatment system that requires no scheduled maintenance or downtime.
- Match the machine to the job with three power modes Power, Smart, and Eco. Smart mode automatically matches engine and hydraulic power to working conditions, providing maximum 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.
- 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 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.

TAKE THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

- Cat Payload helps you achieve precise load targets to improve your operating efficiency. Pick up a load of material – with a bucket and thumb combination or grapple and clamshell attachments – and get a real-time weight estimate without swinging.
- Combine Payload with VisionLink® and remotely manage your production targets.
- 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.
- 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.



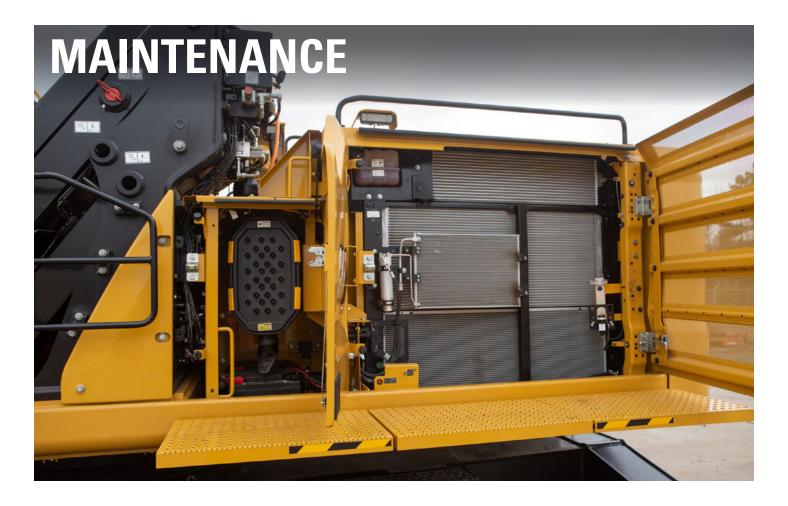


- The MH3050 comes equipped with a premium cab.
- The wide cab seat is heated and ventilated and adjusts automatically.
- Control the machine comfortably with easy-to-reach controls.
- Standard automatic climate control keeps you at the right temperature all shift long.
- Stow your gear with plenty of in-cab storage beneath and behind the seat, overhead, and in the consoles. A cup holder, document holder, and bottle holder are also provided.
- Optional auxiliary relay powers on and turns off CB radios, beacon lights, and other attachments without taking your hands off the joysticks.
- Connect to personal devices via the standard radio's USB ports and Bluetooth® technology.
- 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.

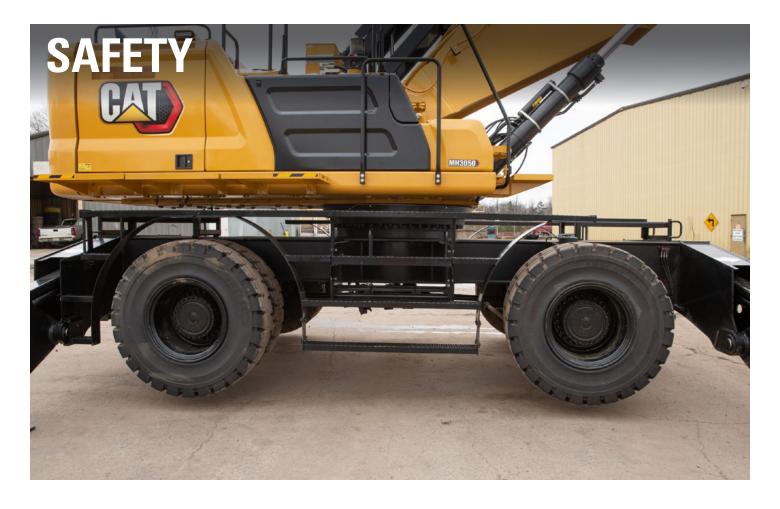
RELIABLE, DURABLE, AND VERSATILE

- 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 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 -32° C (-25° F).
- Auto warm up speeds up hydraulic oil warming in cold temperatures and helps prolong the life of components.
- Standard autolube simplifies maintenance by automatically keeping the machine greased from the swing bearing and cab riser to the stick end.
- Match your machine to your application. Multiple configurations allow you to customize your machine to your needs.
- Equip your MH3050 with an optional 25 kW (34 hp) generator for magnet operation. Generator controls are fully integrated into the cab monitor.
- Expand your work capabilities with attachments for a variety of applications.





- Track your machine's filter life and maintenance intervals via the in-cab monitor.
- Using Cat genuine oil and filters and doing your typical Scheduled Oil Sampling (S·O·SSM) monitoring will double the current service interval to 1,000 hours, giving you greater uptime to do more work.
- Expect the latest air intake filter with pre-cleaner to last up to 1,000 hours a 100% increase over the previous filter.
- The latest 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 cooling fans run only when needed; you can program intervals so they automatically reverse to keep cores clean without interrupting your work.
- Boost productivity with proactive service reminders. The integrated vehicle health management system alerts the operator with step-bystep service guidance and the parts needed so you don't experience unnecessary downtime.



- Cab Avoidance helps you avoid contact between your worktool and the cab.
- Standard 2D E-Fence prevents your machine from moving outside operator-defined parameters.
- Ground-level 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 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 an anti-skid punch plate to prevent slipping.
- The standard hydraulic lockout lever isolates all hydraulic and travel functions in the lowered position.
- Optional Operator Protective Guards (OPG) protect from falling and flying debris.
- When activated, the ground-level shutoff switch stops all fuel in the engine and shuts down the machine.
- In an emergency, safely lower the cab with the cab lowering valve 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.
- 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.

SUSTAINABILITY

- The Cat C9.3B turbo diesel engine meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels** up to: 20% biodiesel FAME (fatty acid methyl ester)*or 100% renewable diesel, HVO (hydrogenated 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.
- Auto Engine Speed Control reduces unnecessary fuel burn and greenhouse gas emissions by allowing the engine to automatically go into idle mode when the machine is not working.
- Cat® 2D E-fence keeps the front linkage within a predefined work area to avoid hazards such as traffic – not only helping keep personnel safe and helps avoid repairs, downtime, and costly jobsite fines.
- Extended maintenance intervals reduce downtime and decrease the amount of fluid and filters that are replaced over the machine's life.
- \bullet VisionLink displays the CO $_2$ emissions for monitored assets, calculated by fuel type for the Runtime Fuel Burned each day in a selected date range.

- Remote Flash minimizes downtime and maintenance time while keeping your asset running with maximum efficiency. Alerts for machine updates are sent virtually from your Cat dealer and updates can be deployed without a dealer technician needing to be onsite.
- Remote Troubleshoot decreases maintenance time and keeps your
 machine running with maximum efficiency by allowing your Cat
 dealer to virtually test the machine while working. Once a problem is
 identified, a technician can fix it the first time, saving time and money.
- *Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).
- **Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.



MORE THAN MACHINES

BUILT AROUND YOUR SUCCESS

When you buy Cat equipment, you get so much more than the machine. You also get the support of a best-in-class dealer network, backed by a range of flexible solutions, technology, tools, and more.



CUSTOMER VALUE AGREEMENTS

A Customer Value Agreement (CVA) from your Cat dealer helps you do more and worry less. A CVA simplifies machine ownership and maintenance, adds the security of expert dealer support, and gives you the peace of mind from effective equipment health management.

GENUINE CAT PARTS

Genuine Cat parts deliver the highest level of reliability and productivity. Order direct from your Cat dealer or shop online at parts.cat.com.

REPAIR OPTIONS

A broad range of repair options gives you choices that work with your needs, budget, and timeline. Every repair is performed by expert Cat technicians. You'll receive smart repair advice, a timely, accurate quote, and service that gets your machine back into action quickly.

FINANCIAL SERVICES

Count on Cat Financial to provide the best finance and extended protection solutions for your business. For more than 30 years, we have helped our customers succeed through financial service excellence.



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DOZERS

SKID STEERS

MATERIAL HANDLERS

EXCAVATORS

WHEEL LOADERS

TRACK LOADERS

INCREASE YOUR PRODUCTIVITY AND PROFIT

WITH CAT ATTACHMENTS

Easily expand the performance of your machine by using Cat attachments. Each Cat attachment is designed to fit the weight and horsepower of Cat material handlers for improved performance, safety, and stability. Complete attachment guides can be found in the technical specifications documents.

GSH – ORANGE PEEL GRAPPLES



CLAMSHELL GRAPPLES



GSV – ORANGE PEEL GRAPPLES



FORESTRY GRAPPLES



TECHNICAL SPECIFICATIONS

Engine				
Engine Model	Cat CS	Cat C9.3B		
Net Power – ISO 9249	258 kW	346 hp		
Net Power – ISO 9249 (DIN)	351 hp (r	351 hp (metric)		
Engine Power – ISO 14396	259 kW	347 hp		
Engine Power – ISO 14396 (DIN)	352 hp (r	352 hp (metric)		
Bore	115 mm	4.5 in		
Stroke	149 mm	5.9 in		
Displacement	9.3 L	568 in ³		
Biodiesel Capability	Up to I	Up to B201		
Emissions		Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.		

Net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system, and alternator with engine speed at 1,900 rpm. Advertised power is tested per the specified standard in effect at the time of manufacture.

¹Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or 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. *Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer). **Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

Transmission				
Drawbar Pull	182 kN	40,915 lb/ft		
Maximum Travel Speed	18 km/h	11.2 mile/h		
Machine V	Veights			
Maximum Operating Weight	50 000 kg	110,250 lb		
Minimum Operating Weight	48 000 kg	105,800 lb		
Service Refill Capacities				
Fuel Tank Capacity	600 L	158.5 gal		
Cooling System	40 L	10.6 gal		
Engine Oil	32 L	8.5 gal		
Final Drive – Each	4.5 L	1.2 gal		
Hydraulic System – Including Tank	423 L	111.7 gal		
Hydraulic Tank	186 L	49.1 gal		
Diesel Exhaust Fluid (DEF) Tank	80 L	21.1 gal		
Rear Axle – Housing (Differential)	40 L	10.6 gal		
Front Steering Axle – Differential	40 L	10.6 gal		
Powershift Transmission	3 L	0.8 gal		
Swing Mechanism				
Swing Speed	7 r/min			
Maximum Swing Torque	143 kN⋅m	105,820 ft-lbf		

Dimensio	ons				
Boom	MH 10.95 m (35'11")				
Stick	Industrial 8.3 m (27'3")				
Shipping Height (with OPG, without stick)	3720 mm	12.2 ft			
Shipping Length	14 840 mm	48.7 ft			
Machine Length	6850 mm	22.5 ft			
Tail Swing Radius	3520 mm	11.6 ft			
Counterweight Clearance	1630 mm	5.3 ft			
Cab Height- Lowered	3670 mm	12 ft			
Cab Height-Lowered with OPG	3720 mm	12.2 ft			
Cab Height-Raised	6260 mm	18.4 ft			
Cab Height-Raised with OPG	6310 mm	20.7 ft			
Wheel Base	3400 mm	11.2 ft			
Shipping Width	3490 mm	11.4 ft			
Ground Clearance	310 mm	0.9 ft			
Undercarriage Length	6750 mm	22.2 ft			
Upper Frame Width (including handrails)	3110 mm	10.2 ft			
Working Ra	inges				
Boom	MH Boom 10.95 m (35'11")				
Stick	Industrial 8.3 m (27'3")				
Maximum Reach	18 060 mm	59.3 ft			
Maximum Height	19 030 mm	62.4 ft			
Minimum Dump Height	5530 mm	17.5 ft			
Maximum Reach at Ground Line	18 060 mm	59.3 ft			
Maximum Depth	5760 mm	18.9 ft			
Boom Pin Height	13 470 mm	44.2 ft			
Hydraulic System					
Maximum Pressure – Implements	31 000 kPa	4,496 psi			
Maximum Pressure – Travel	35 000 kPa	5,076 psi			
Maximum Pressure – Swing	29 400 kPa	4,264 psi			
Air Conditioning System					

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.25 kg (2.76 lb) of refrigerant which has a $\rm CO_2$ equivalent of 1.787 metric tonnes (1.970 tons).

STANDARD & OPTIONAL EQUIPMENT

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

	Standard	Optiona
CAB		
Advanced sound suppressed Tip Over Protective Structure (TOPS) certified cab with rubber mounts	✓	
Heated and cooled premium seat with air suspension with headrest	✓	
High-resolution 254 mm (10") LCD touchscreen monitor	✓	
Operator Protective Guards (OPG)		✓
HYDRAULICS		
$SmartBoom^{TM}$	✓	
Boom and stick lowering control check valves	✓	
Boom and stick regeneration circuits	✓	
Electronic main control valve	✓	
Automatic hydraulic oil warm up	✓	
High performance hydraulic return filter	✓	
2-Slider joysticks	✓	
Medium pressure (grapple rotate) and cab riser valve	✓	
Capability of installing additional generator pump and circuit	✓	
Fine swing capability	✓	
Joystick steering	✓	
Automatic swing parking brake	✓	
Adjustable hydraulic aggressiveness	✓	
Pattern changer	✓	
Cat BIO HYDO™ Advanced biodegradable hydraulic oil		✓
SERVICE AND MAINTENANCE		
S·O·S ports	✓	
QuickEvac™ maintenance ready	✓	
Grouped location for engine oil and fuel filters	✓	
Automatic lubrication system for implement	\checkmark	
and swing system		
SAFETY AND SECURITY		
2D E-fence with Cab Avoidance		
Caterpillar One Key Security System	√	
Travel alarm	√	
Signal/warning horn	√	
Lockable external tool/storage box	√	
Neutral lever (lock out) for all controls		
Ground-level accessible secondary engine shutoff switch in cab	√	
Bluetooth® receiver	√	
Anti-skid plate and countersunk bolts on service platform	√	
Rear and right-side-view cameras		✓
360° visibility		✓
Rotating beacon on cab		✓

	Standard	Optional
CAT TECHNOLOGY		
VisionLink	√	
Cat Payload	√	
Remote Flash	✓	
Remote Troubleshoot	√	
BOOM AND STICK		
10.95 m (35′11″) Straight Material Handling boom	√	
8.3 m (27'3") Industrial stick	✓	
ELECTRICAL		
LED lights on boom, stick and cab	✓	
LED lights on chassis and counterweight	✓	
Programmable time-delay LED working lights	✓	
Maintenance free batteries	✓	
Centralized electrical disconnect switch	✓	
Generator, 25 kW with wiring to stick nose		✓
JNDERCARRIAGE AND STRUCTURES		
All wheel drive	✓	
Automatic brake/axle lock	✓	
Creeper speed	✓	
Electronic swing and travel lock	✓	
Heavy-duty axles, advanced disc brake system and travel motor, adjustable braking force	✓	
Oscillating front axle, lockable, with remote greasing point	✓	
Access steps and one tool box at the undercarriage	✓	
Two speed hydrostatic transmission	✓	
Counterweight 9000 kg (19850 lb)	✓	
Tires, 12.00-24, dual, solid rubber		√
Tires, 14.00-24, dual, solid rubber		√
Access steps rear at the undercarriage		√
ENGINE		
Automatic engine speed control	√	
Three selectable modes: Power, Smart, Eco	√	
Remote disable	√	
52° C (125° F) high-ambient cooling capacity	√	
Cold starting capability for -32° C (-25° F)	<u> </u>	
Double element air filter with integrated	<u> </u>	
pre-cleaner		
Electric fuel priming pump		
Two-stage fuel filtration system with water separator and indicator	√	
Secure start with Personal Identification Number (PIN) code	√	
On-demand hydraulic cooling fan with auto-reverse function	✓	
Cooling door with integrated fine mesh screen		√

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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PEDJ1276-01 Replaces PEDJ1276-00 Build Number: 07D (Europe, N Am)

