# MH3049

## Wheel Material Handler


| Engine | | |
|---|---|---|
| Engine Model | Cat® C9 ACERT™ | |
| Net Power (ISO 9249) | 224 kW | 300 hp |
| **Weights** | | |
| Operating Weight | 50 349 kg | 111,000 lb |

| Working Ranges | | |
|---|---|---|
| Long Boom/Long Stick | | |
| Maximum Reach | 17.8 m | 58'5" |
| Maximum Height | 19.5 m | 64'0" |
| Maximum Depth | 5.3 m | 17'4" |

*Courtesy of Crane.Market*

## Introduction

*We know that when it comes to material handling equipment, your success depends on high productivity and dependable performance. The new Cat MH3049 Material Handler is designed where harsh environments and severe duty applications of industrial, scrap recycling, and bulk handling operations call for safe, quality and reliable products. The MH3049 is a purpose-built material handler from the ground up. Everything about this machine is designed to do one thing well – move material.*

**Contents**



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# Key Features

## Commitment from the Ground Up

### Safety and Comfort

Decrease the risk for slips and falls with the patented “ground entry and exit” hydraulic cab riser system. This innovative system will lower the cab to ground level for operator entry and exit. This is one of many features the MH3049 brings to improve the safety of your operations.



*Courtesy of Crane.Market*



## Efficiency

Recognizing that fuel efficiency is directly affected by hydraulic performance, the hydraulic system in the MH3049 is carefully designed to provide the work needed without wasting fuel. A high capacity hydraulic cooling system keeps operating temperatures low, resulting in longer component life, higher efficiency and lower repair cost.

## Structural Integrity

You expect quality and durability. The MH3049 is purpose-built from the ground up with frame construction that utilizes continuous welds, extensive chamfering, "feathered" weld end points and radiused corners. Critical areas use high grade structural steel, and areas susceptible to side loading have pins oversized by 15%-20%, with threaded retention. To withstand extreme loads encountered in material handling applications, both the boom and the stick are built from single piece continuous top and side plates – no seams or baffles.

## User-Friendly Technology

Effective operator and machine communication is critical in any job application to ensure productivity. The MH3049 features a user-friendly operating system that clearly communicates machine conditions in plain language, no need to research code definitions. In addition, the in-cab monitor reports machine conditions, warnings and maintenance checks. To increase comfort, operators can adjust machine functions, such as joystick control sensitivity through the operating system.

## Lower Operating Cost

Low operating cost was one of the top priorities throughout the MH3049's design phase. The combination of extending component life, optimizing fuel efficiency and an innovative hydraulic system all work together to provide the lowest possible operating cost.



*Courtesy of Crane.Market*

# Engine and Power Train
## More Power and Efficiency

### Precise Engine Control
The ADEM™ A4 (Advanced Diesel Engine Management) provides quick response to engine demands. Utilizing flexible fuel mapping, the ADEM A4 electronically controlled fuel module monitors performance with sensors in the air intake, fuel, exhaust and cooling system to produce higher efficiency and lower emissions.

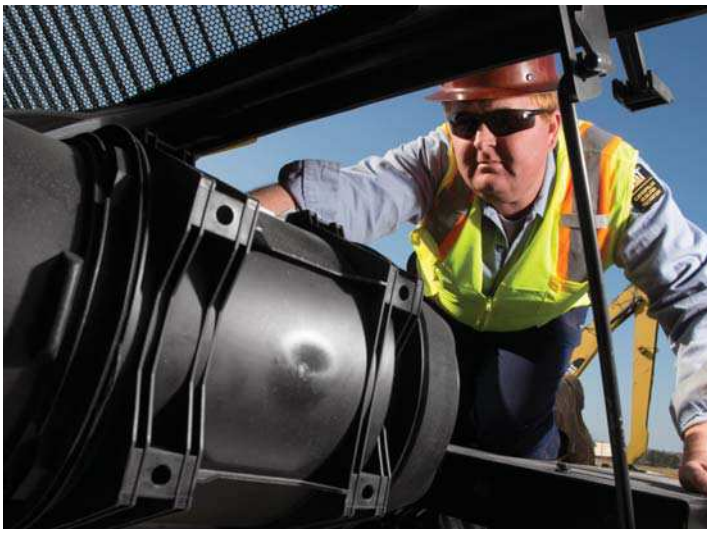
### Fuel Delivery Technology
The Cat C9 ACERT features electronic controls that govern mechanically actuated unit fuel injection system. With a carefully designed combustion cycle, the C9 lowers emissions produced and improves fuel economy.

### Powerful Engine Cooling System
The MH3049's engine cooling system adjusts to demands of work applications. Rated for a 257 kW (350 hp) engine, the cooling system incorporates a variable pitch, auto-reversing Flexxaire cooling fan that runs on set intervals to purge debris from the cooling system, extending component life.

### Enhanced Fuel Efficiency with Auto Throttle
Fuel can drastically affect your businesses' operating cost. The fuel saving auto throttle feature reduces the engine rpm back to idle after five seconds of inactivity, decreasing fuel consumption.

### Dependable Power Train
True all-wheel drive is achieved with four independent planetary wheel drives. Oscillating rear housing with lock-out feature and solid rubber tires provide machine stability and traction. As a result, there are no transfer cases, axles or drive shafts in the undercarriage from which material could drag and damage machinery.

### Convenient Travel
Machine movement is regulated through a two mode shift on the fly travel system that includes a creeper mode up to 5.0 km/h (3.1 mph) and a standard mode up to 12.0 km/h (7.5 mph). Steering and speed are controlled through the joystick controls while forward and reverse direction is controlled through a foot pedal.





*Courtesy of Crane.Market*


More power when you need it, the Cat C9 ACERT large displacement engine optimizes machine performance and enhances fuel efficiency while meeting Tier 3/Stage IIIA emission regulations. The C9 is an 8.8 L (537 $in^3$), in-line 6 cylinder engine rated at 224 kW (300 hp). This market proven Cat engine produces enough power to run simultaneous machine operations.



*Courtesy of Crane.Market*

# Hydraulic System

## Effective Hydraulics – Improve Your Machine's Performance


Courtesy of Crane.Market

Machine productivity depends on hydraulic performance. The MH3049's hydraulic system is designed to provide power without compromising efficiency, and protect component life to keep your machine running.

## Torque Performance

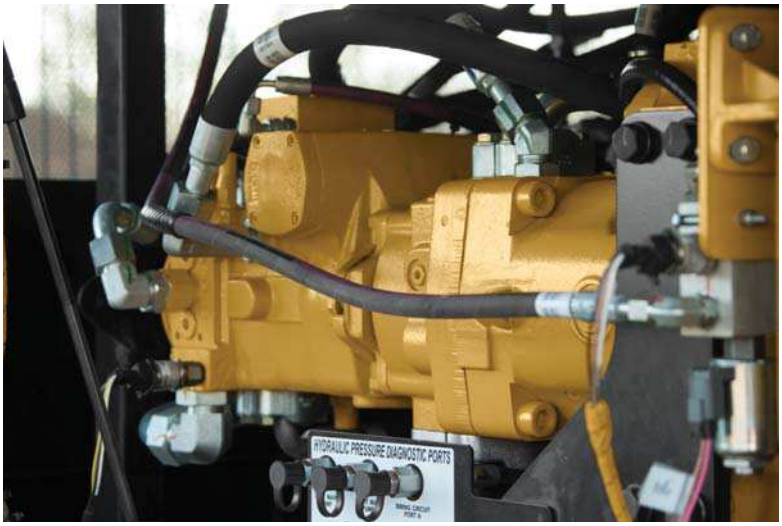
Proper torque distribution on the MH3049 allows you to run simultaneous operations without compromising performance or efficiency. A dedicated closed loop swing system ensures that machine implement functions do not interfere with swing movements. A dual pump system produces hydraulic power for the implements, work tools, travel and cab riser systems. The engine flywheel evenly divides power between both main pumps through a two pad pump drive gearbox. A dedicated swing pump provides torque for swing functions, maintaining swing priority for increased production cycles.

## Low Operating Temperatures

Running at lower operating temperatures protects component life. The MH3049's hydraulic system is linked with its own independent cooling system to ensure that low operating temperatures are maintained. The independent hydraulic cooler features a variable speed auto-reversing hydraulic fan and its own air tunnel to ensure proper ventilation without compromising the engine's cooling system.

## Fast Cycle Times

Faster cycle times increase productivity. An efficient load sensing hydraulic system supplies quick lift and implement performance while providing control regardless of boom, stick or travel demands. The dedicated hydrostatic swing system ensures that swing speed is not affected by other machine functions.




## Flow Management

Operating costs are cut with flow management technologies. Flow-sharing compensation delivers flow on-demand for smooth, efficient operations, regardless of load. Load sensing pumps generate only the flow and pressure required to meet system demands based on the work being done.



*Courtesy of Crane.Market*

# Structure and Frame

## Built Quality – Structural Integrity



Your operators face harsh working environments that can affect the durability of your equipment. With this in mind, the MH3049 was built beyond industry standards. Structures were subjected to extensive strain gauge testing and finite element analysis to ensure built quality and durability. Not cutting any corners, structural grade steel is used in critical areas.

Built to last, The MH3049 has continuous welds along with chamfering and feathering techniques. Pins and bushings are oversized to prevent stress failures and lubricated through the automatic lubrication system to enhance component durability.

### Frame

The MH3049's frame is divided into an upper and lower portion. The upper frame houses the hydraulic cab riser, counterweight, boom, engine and hydraulic system. The boom foot is mounted at the upper frame's center to create a stable working platform. The upper frame attaches to the lower frame through the MH3049's rotating axis, a 660 mm (26 in) fully boxed riser ring with 51 mm (2 in) integrated top plate. The lower frame is high off the ground to prevent any materials from dragging and the design is tapered to evenly distribute the weight on its four outriggers.

### Counterweight

Weighing 9980 kg (22,000 lb), the cast counterweight, located at the rear of the machine, includes a grid enclosure to ensure ventilation of the engine and hydraulic machinery compartment. The rearview camera is housed in the counterweight, protecting it from debris.



*Courtesy of Crane.Market*

The MH3049 is meant to be an integral part of your operations for many years to come, built strong with thick plates, radiused corners and detailed welds.




*Courtesy of Crane.Market*

# Front Linkage

## Durability – Built with No Compromises


You know that a material handler works only as good as its front linkage is able to handle the job. The MH3049's boom and stick are purpose built for the loads encountered in bulk material handling applications, able to withstand extreme loading conditions.

Careful and detailed handling of stresses ensures that the MH3049 has the durability you need for your day-to-day operation. The boom and stick top and side plates are manufactured from single plates of steel to eliminate the need for internal baffles and cross boom weld joints. Feathered welds and strengthened connections compliment the structural integrity of the front linkage.

Automatic lubrication on linkage pins and bushings extend component life, protecting your investment.

Excellent lift performance is delivered with dual boom cylinders and stick cylinders. The boom foot mounted on the center of the upper frame creates a stable lifting platform. The 10.67 m (35'0") boom and 8 m (26'3") drop nose stick provide a horizontal reach of 17.8 m (58'5") and a large working envelope, minimizing machine travel and bringing down operation costs.


*Courtesy of Crane.Market*

# Integrated Technology

## Efficiently Operate and Manage Your Machine


### Track Maintenance

Keep track of important maintenance with sensors in air filters and hydraulic filters. Warnings are displayed once maintenance is needed. Additional maintenance checks are based on time intervals, and maintenance logs are saved on the operating system.

### Simple Diagnostics

From the operator screen, all electronic inputs and outputs can be viewed to verify that they are working correctly. Engine fault codes, hydraulic pressure spikes and operating system diagnostic faults are logged.

### Adjustable

Your operators can adjust main machine functions to accommodate their preferences. Four operator pre-sets can be customized and saved so that different operators can feel comfortable.

### Machine Communication

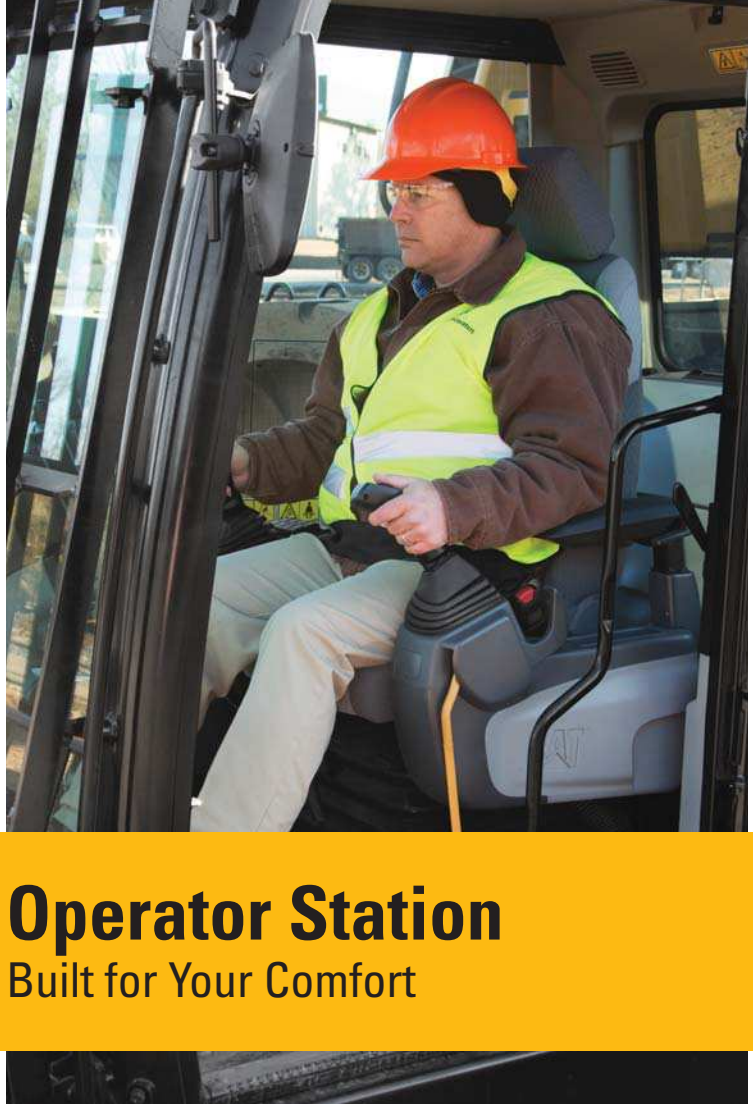
No need to look up what codes mean, the MH3049 will display in plain language machine settings, controls, faults and warnings. User-friendly communications allow for your operators to be focused on the job at hand.

### Manage Assets with Cat Product Link™ (Optional)

Product Link helps you take the guesswork out of equipment management. With timely, useful information, you can better manage your assets and costs. Through the powerful, web-based VisionLink® application you have access to remote monitoring of equipment – see hours and location, site boundaries and maintenance management. When you know where and when your equipment is running, you can manage your fleet more efficiently and effectively. It pays to know Cat Product Link. Consult your Cat dealer for availability of this option.



*Courtesy of Crane.Market*



Operate the MH3049 with less fatigue and greater comfort. The operator station is ergonomically designed to provide a quiet, safe and comfortable work environment. Highly visible monitors, easily accessible switch consoles and operating controls reduce fatigue for your operator. With large windows and joystick controlled steering the MH3049 cab provides ideal job site visibility.

# Operator Station

## Built for Your Comfort

### Comfort with the Cat D Series Cab

Comfortable operators make productive operators, which is why the MH3049 is equipped with our Cat D Series cab. The interior of the cab is spacious, and controls are ergonomically located within comfortable reach for the operator. This sturdy operator station features window panes that are attached directly onto the frame eliminating the need for sills that may be visual obstacles and weak stress points.

### Convenient Cab Riser

Avoid unnecessary hassles and potential injuries. Start your day walking into the cab at ground level with our innovative hydraulic cab riser system. The cab riser can reach a height of 5.7 m (18'8") (eye level) in approximately 14 seconds, and come back to the ground in approximately 12 seconds.

### Increased Productivity with Electronic Joystick Controls

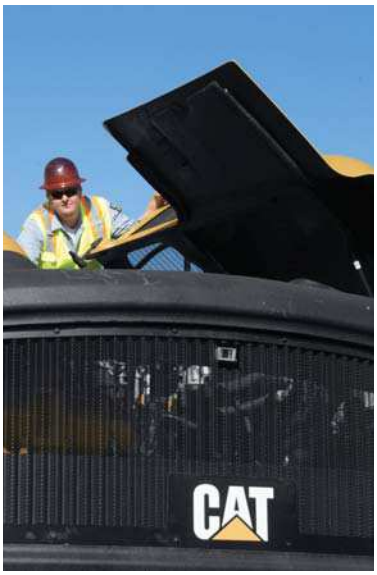
Experience smoother, faster production with electronic joystick controls. Customizable machine functions allows the machine to be fine tuned to operator preferences.




*Courtesy of Crane.Market*

# Serviceability

## Efficient Servicing for More Productivity


To ease serviceability on the MH3049, all primary service points are conveniently located under a single access service panel on the right side of the machine or beneath the top engine access panel. Easily locate components with the engine and cooling system's longitudinal layout. Both panels are hinged with gas struts, ensuring that one technician can easily access all maintenance points.

### Spacious Compartments

Purposefully designed, the spacious and lighted compartments allow for technicians to maneuver easily while accessing the engine, cooling system, hydraulic components and filters for maintenance and inspection.

### Labeled Service Points

We have taken the guesswork out of identifying key hydraulic hoses and electrical wiring with name labels to ease maintenance.

### Automatic Lubrication

Machine life is improved and operating costs are lowered by having the machine in charge of timely lubrication intervals. Upper and lower auto-lube sends grease based on duration runtime. The machine is factory set to run grease point lubrication every 15 minutes of use and the reservoir is estimated to run about 400 hours between fills.

### Guards, Railings and Anti-Slip Surfaces

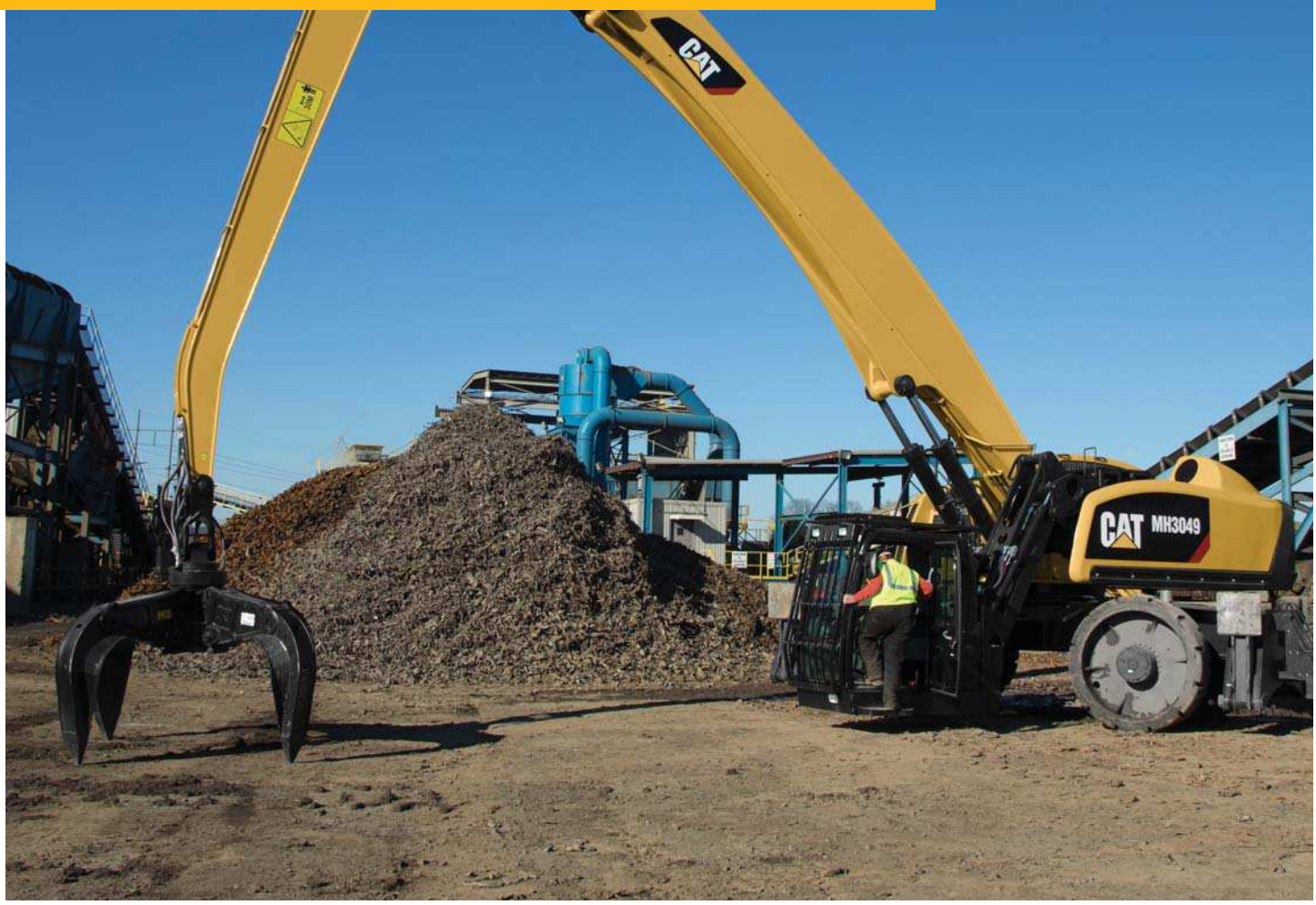
Being able to safely service machinery is a primary concern for all owners. Equipped with handrails and anti-slip surfaces, technicians can safely perform inspections and maintenance.



*Courtesy of Crane.Market*

# Safety and Security

## Your Safety Is Our Priority




### Ground Access Cab

You are safer from the risk of slips and falls with the MH3049's patented ground entry and exit cab riser system. In the event of a power loss, a cab riser pressure release valve located in the operator station allows for the cab to be lowered, enabling the operator to safely exit the machine.

MAINTAIN A CLEAN WORK STATION, SAFELY, CONVENIENTLY



*Courtesy of Crane.Market*

## Falling Object Guard System (FOGS)

Falling and flying debris is one of the hazards of the workplace. To protect your operator, the MH3049 is equipped with the impact-absorbing cab guard that conforms to ISO 10262 safety standards. The Falling Object Guarding System consists of two parts that are bolted on top of the cab and on front of the windshield.

## High Operator Visibility

The ability to see your work area is critical to a safe working environment. The cab is purposefully designed to provide high visibility and ensure that the operator can view his work area. The cab includes a polycarbonate skylight, removable window panes and a rear window that serves as an emergency exit. Joystick controls in lieu of a steering wheel provide a less obstructed front view. In addition, a cab mounted windshield wiper improves operator visibility in wet weather conditions.

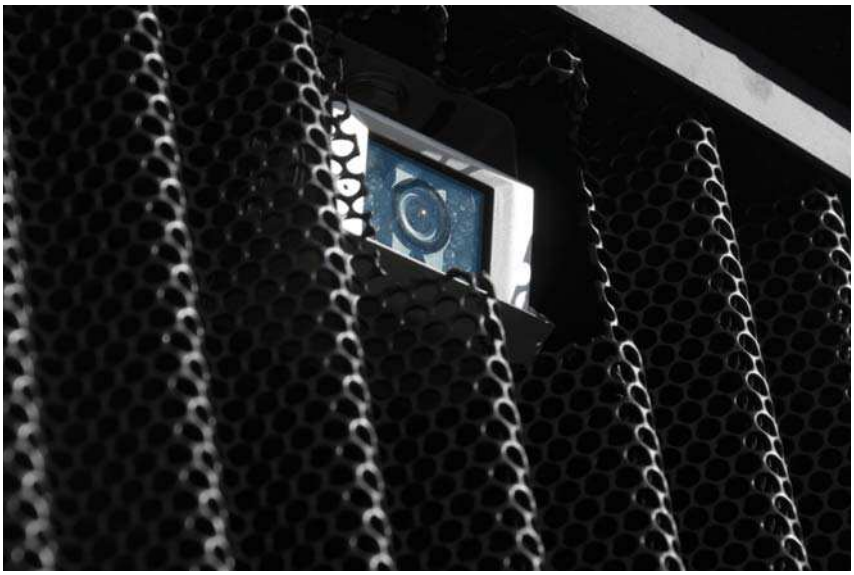
## Rearview Camera

Having line of sight to what is happening behind the machine is vital in maintaining a safe work environment, which is why a rearview camera is mounted on the counterweight. The live audio and video transmission is fed through the HD color monitor in the cab.

## Safer Operations

Maintain safe working distances with the stick limiter, which prevents the work tool from coming into close proximity to the operator station. Function override controls allow for up close work.

Operators will be warned through the cab monitor when the machine is nearing or exceeding lift capacity. If lift capacity is exceeded, boom and stick functions are limited as an added assurance to protect your investment from preventable accidents.





*Courtesy of Crane.Market*

# Complete Customer Care
## Commitment to Your Uptime


### Product Support
You can maximize your machine's uptime with the Cat worldwide dealer network. You can also decrease your repair costs by utilizing Cat remanufactured components.

### Machine Selection
What are your job requirements and machine attachments? What production do you need? Your Cat dealer can provide recommendations to help you make the right machine configuration decisions.

### Operation
You can boost your profits by improving your operator's techniques. Your Cat dealer has videos, literature and other ideas to help increase productivity. Caterpillar offers simulators and certified operator training to help maximize the return on your investment.

### Purchase
You can ensure lower owning and operating costs by utilizing unique Cat dealer services and financing options.

### Replacement
Repair, rebuild, or replace? Your Cat dealer can help evaluate the cost involved so you can make the best choice for your business.




*Courtesy of Crane.Market*


# Sustainability

## Built for a Better Tomorrow

### Low Emissions

MH3049, powered by the Cat C9 ACERT engine, meets U.S. EPA Tier 3 and EU Stage IIIA emission standards.

### Rebuild

Major structures and components of the MH3049 are designed to be rebuilt, to extend the life of your machinery. The remanufactured and reused parts help to reduce waste, operating cost and impact to the environment.

### Efficiency

The combination of an efficiently designed hydraulic system and a market proven efficient engine work together on the MH3049 to provide excellent fuel economy and still deliver the power you need.



*Courtesy of Crane.Market*

# Work Tool Attachments

## Work Tools That Matter

### Optional Cat Generator

If your work tool or application needs additional power for operation, the MH3049 can come equipped with an optional 25 kW solid state generator. The genset is capable of producing enough power to operate a 1727 mm (68 in) diameter magnet. The optional solid state genset would be housed in the engine compartment for ease of maintenance without obstructing other machine components.



*Courtesy of Crane.Market*

## *Cat Orange Peel Grapples*

A Cat Orange Peel Grapple is the perfect solution for material handlers in scrap yards, recycling plants and transfer stations. A 360° rotation system and 4-tine or 5-tine configuration efficiently and safely handles shredded scrap, waste, long structural beams, car bodies and many other materials.

### Achieve Maximum Penetration

Tine angle and tip shape of the Cat grapple work together like daggers, punching deep into the scrap pile. The grapple's high contoured center profile further enhances penetration for a full load every time.

### Stack Higher

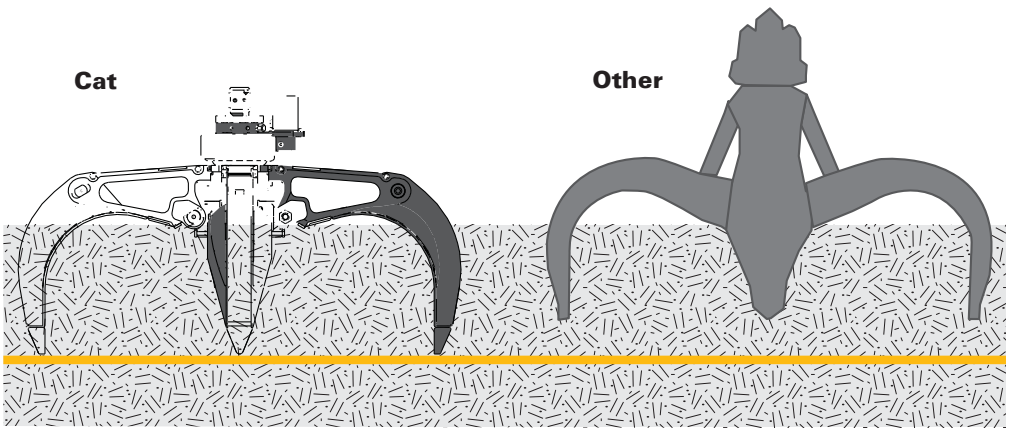
Cat Orange Peel Grapples have a low profile and short overall height, allowing the operator to reach and stack higher.

### Models to Fit Your Application

Cat Orange Peel Grapples come with a 4-tine or 5-tine configuration and range in capacities from 0.76 to 1.15 $m^3$ (1.00 to 1.50 $yd^3$), or a 5-tine configuration capacity of 0.76 to 0.96 $m^3$ (1.00 or 1.25 $yd^3$).

### Reduced Damage and Downtime

Cat cylinders and hoses are located inside the grapple, protected against cutting and scoring from scrap impact. Four exposed connector lines to the machine are guarded – protecting them from damage.






*Courtesy of Crane.Market*

# MH3049 Wheel Material Handler Specifications

## Engine

| | | |
|---|---|---|
| Engine Model | Cat C9 ACERT | |
| Emissions | U.S. Stage lllA/Tier 3 | |
| Net Power (ISO 9249) | 224 kW | 300 hp |
| Bore | 112 mm | 4.41" |
| Stroke | 149 mm | 5.87" |
| Fuel Capacity | 416 L | 110 gal |
| Displacement | 8.8 L | 537 $in^3$ |
| Cylinders | 6 in-line | |
| Maximum Torque @ 1,400 rpm | 1.37 kN·m | 1,011 lbf-ft |

## Weights

| | | |
|---|---|---|
| Operating Weight | 50 349 kg | 111,000 lb |
| Boom Weight (with cylinders) | 4717 kg | 10,400 lb |
| Upper Weight | 24 630 kg | 54,300 lb |
| Stick Weight (with cylinders) | 3130 kg | 6,900 lb |
| MH Undercarriage, 4 Welded Outriggers | 17 872 kg | 39,400 lb |
| Counterweight | 9980 kg | 22,000 lb |

## Hydraulic System

| | | |
|---|---|---|
| Controls | Electro/hydraulic pilot controls | |
| Tank Capacity | 492 L | 130 gal |
| System Capacity | 738 L | 195 gal |

## Hydraulic System: Maximum Pressure

| | | |
|---|---|---|
| Implement Circuit | 33 095 kPa | 4,800 psi |
| Travel Circuit | 33 095 kPa | 4,800 psi |
| Auxiliary Circuit | | |
| High Pressure | | |
| Factory Setting | 22 750 kPa/ 15 168 kPa | 3,300 psi/ 2,200 psi |
| Maximum Allowable Relief Setting | 33 095 kPa | 4,800 psi |
| Medium Pressure | | |
| Factory Setting | 15 168 kPa | 2,200 psi |
| Maximum Allowable Relief Setting | 17 237 kPa | 2,500 psi |
| Swing Circuit | 35 163 kPa | 5,100 psi |

## Hydraulic System: Maximum Flow

| | | |
|---|---|---|
| Implement Circuit | 568 L/min | 150 gal/min |
| Auxiliary Circuit | | |
| High Pressure | 208 L/min | 55 gal/min |
| Medium Pressure | 76 L/min | 20 gal/min |
| Operating Temperature | 60-73° C | 140-164° F |

## Swing Mechanism

| | | |
|---|---|---|
| Swing Speed | 7.0 rpm | |
| Swing Torque | 107 kN·m | 79,000 lbf-ft |
| Swing System | Closed loop hydrostatic system with electro-proportional controls | |
| Maximum Swing Pump Flow | 155 L/min | 41 gal/min |

## Transmission

| | | |
|---|---|---|
| Maximum Travel Speed | 12.0 km/h | 7.5 mph |
| Creeper Speed | 5.0 km/h | 3.1 mph |
| Maximum Gradeability | 35% | |

## Service Refill Capabilities

| | | |
|---|---|---|
| Fuel Tank | 416 L | 110 gal |
| Cooling System | 36 L | 9.5 gal |
| Engine Crankcase with Filter | 33 L | 8.7 gal |
| Final Drive (each) | 6.0 L | 1.6 gal |
| Hydraulic Tank | 492 L | 130 gal |
| Hydraulic System (including tank) | 738 L | 195 gal |
| Pump Drive | 3.5 L | 0.925 gal |

## Outriggers

| | | |
|---|---|---|
| Ground Penetration | 140 mm | 5.5" |

## Undercarriage

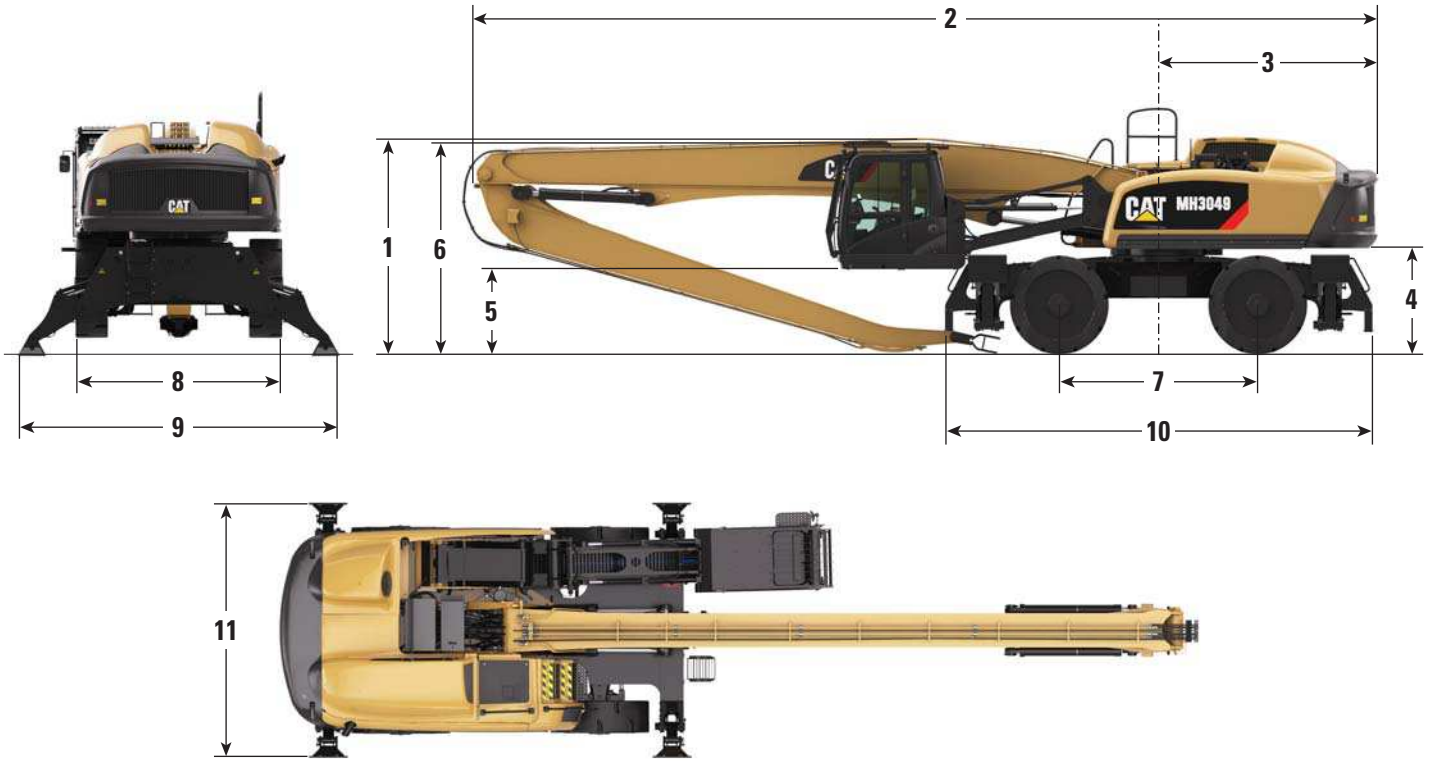
| | | |
|---|---|---|
| Ground Clearance at Lowest Point | 324 mm | 12.75" |
| Oscillation Axle Angle | ±4 degrees | |
| Minimum Turning Radius (inside) | 6.4 m | 21'0" |



Courtesy of Crane.Market

## Dimensions

All dimensions are approximate.




| | MH3049 | |
|---|---|---|
| **1** Shipping Height | 3537 mm | 11'7" |
| **2** Shipping Length | 14.4 m | 47'3" |
| **3** Tail Swing Radius | 3289 mm | 10'10" |
| **4** Counterweight Clearance | 1695 mm | 5'7" |
| **5** Cab Clearance – Lowered to Ground* | 241 mm | 9.5" |
| **6** Cab Height | | |
| Transportation | 3314 mm | 10'10" |
| Raised to Top of FOGS Guard | 6086 mm | 20'0" |
| **7** Wheel Base | 3200 mm | 10'6" |
| **8** Undercarriage Width | 3321 mm | 10'11" |
| **9** Stabilizer Width on Ground | 5232 mm | 17'2" |
| **10** Undercarriage Length | 6858 mm | 22'6" |
| **11** Shipping Width | 3404 mm | 11'2" |

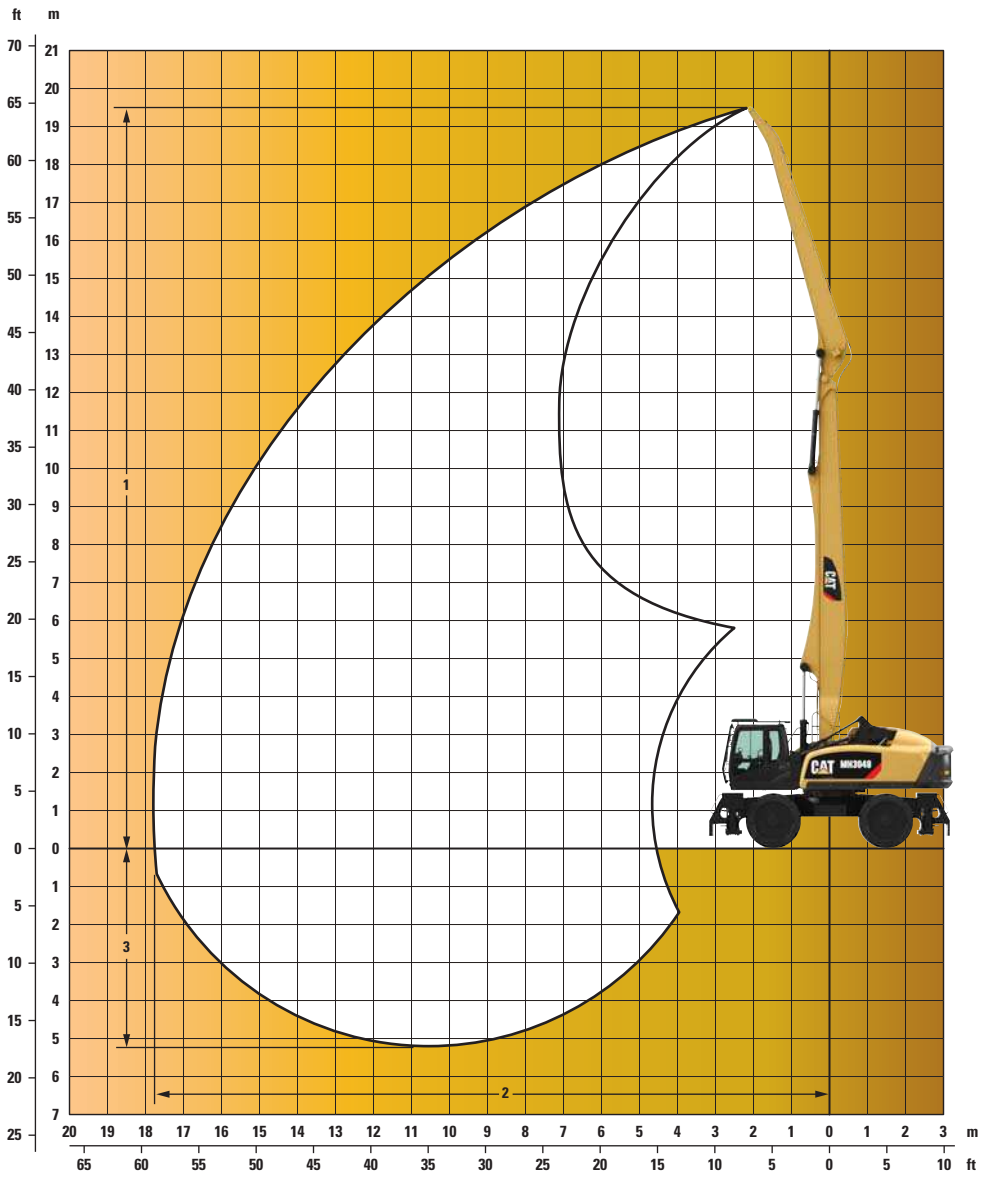
*Factory set at 241 mm (9.5") – adjustable through the operating system to be lower or higher.



Courtesy of Crane.Market

# MH3049 Wheel Material Handler Specifications

## Working Ranges




| | MH3049 | |
|---|---|---|
| **Boom Length** | **10.67 m** | **35'0"** |
| **Stick Length** | **8.0 m** | **26'3"** |
| **1** Maximum Height | 19.5 m | 64'0" |
| **2** Maximum Reach | 17.8 m | 58'5" |
| **3** Maximum Depth | 5.3 m | 17'4" |



*Courtesy of Crane.Market*

## MH3049 Lift Capabilities

| Pin Heights | | | Horizontal Reach | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 4.5 m (15 ft) | 6.0 m (20 ft) | 7.5 m (25 ft) | 9.0 m (30 ft) | 10.5 m (35 ft) | 12.0 m (40 ft) | 13.5 m (45 ft) | 15.0 m (50 ft) | 16.5 m (55 ft) |
| **18.0 m (60.0 ft)** | 2 sets stabilizers lowered | **kg** | | | 6400 | | | | | | |
| | | **lb** | | | 14,110 | | | | | | |
| **16.5 m (55.0 ft)** | 2 sets stabilizers lowered | **kg** | | | | 6480 | 5100 | | | | |
| | | **lb** | | | | 14,290 | 11,250 | | | | |
| **15.0 m (50.0 ft)** | 2 sets stabilizers lowered | **kg** | | | | 7300 | 6420 | | | | |
| | | **lb** | | | | 16,090 | 14,160 | 11,110 | | | |
| **13.5 m (45.0 ft)** | 2 sets stabilizers lowered | **kg** | | | | 7800 | 7000 | 6250 | 4660 | | |
| | | **lb** | | | | 17,190 | 15,440 | 13,780 | 10,280 | | |
| **12.0 m (40.0 ft)** | 2 sets stabilizers lowered | **kg** | | | | 7810 | 7130 | 6410 | 5800 | | |
| | | **lb** | | | | 17,230 | 15,720 | 14,130 | 12,790 | | |
| **10.5 m (35.0 ft)** | 2 sets stabilizers lowered | **kg** | | | | 8090 | 7790 | 7160 | 6150 | 5180 | |
| | | **lb** | | | | 17,840 | 17,170 | 15,780 | 13,570 | 11,430 | |
| **9.0 m (30.0 ft)** | 2 sets stabilizers lowered | **kg** | | | 9370 | 8880 | 8140 | 7340 | 6530 | 5550 | |
| | | **lb** | | | 20,670 | 19,590 | 17,950 | 16,180 | 14,390 | 12,230 | |
| **7.5 m (25.0 ft)** | 2 sets stabilizers lowered | **kg** | | 10 360 | 10 070 | 9500 | 8370 | 7480 | 6590 | 5770 | 4780 |
| | | **lb** | | 22,840 | 22,200 | 20,950 | 18,460 | 16,490 | 14,520 | 12,730 | 10,530 |
| **6.0 m (20.0 ft)** | 2 sets stabilizers lowered | **kg** | 12 350 | 12 780 | 11 700 | 9930 | 8640 | 7640 | 6650 | 5790 | 5060 |
| | | **lb** | 27,240 | 28,180 | 25,790 | 21,900 | 19,050 | 16,850 | 14,660 | 12,770 | 11,150 |
| **4.5 m (15.0 ft)** | 2 sets stabilizers lowered | **kg** | 20 940 | 15 540 | 12 410 | 10 360 | 8900 | 7790 | 6700 | 5800 | 5170 |
| | | **lb** | 46,180 | 34,260 | 27,370 | 22,840 | 19,620 | 17,180 | 14,770 | 12,780 | 11,400 |
| **3.0 m (10.0 ft)** | 2 sets stabilizers lowered | **kg** | 5020 | 16 540 | 12 990 | 10 710 | 9100 | 7900 | 6710 | 5760 | 5090 |
| | | **lb** | 11,070 | 36,460 | 28,650 | 23,610 | 20,070 | 17,420 | 14,800 | 12,700 | 11,220 |
| **1.5 m (5.0 ft)** | 2 sets stabilizers lowered | **kg** | 2580 | 8500 | 13 280 | 10 880 | 9190 | 7920 | 6670 | 5670 | 4950 |
| | | **lb** | 5,690 | 18,740 | 29,280 | 24,000 | 20,270 | 17,470 | 14,700 | 12,510 | 10,910 |
| **Ground Line** | 2 sets stabilizers lowered | **kg** | 2540 | 5960 | 13 170 | 10 820 | 9120 | 7820 | 6530 | 5500 | 4710 |
| | | **lb** | 5,600 | 13,150 | 29,030 | 23,860 | 20,110 | 17,250 | 14,400 | 12,120 | 10,390 |
| **–1.5 m (–5.0 ft)** | 2 sets stabilizers lowered | **kg** | 3030 | 5550 | 10 950 | 10 470 | 8840 | 7570 | 6050 | 5200 | 4340 |
| | | **lb** | 6,690 | 12,230 | 24,150 | 23,090 | 19,500 | 16,680 | 13,330 | 11,470 | 9,570 |
| **–3.0 m (–10.0 ft)** | 2 sets stabilizers lowered | **kg** | | 5760 | 10 010 | 9800 | 8320 | 7100 | 5620 | 4740 | |
| | | **lb** | | 12,710 | 22,070 | 21,610 | 18,350 | 15,660 | 12,390 | 10,460 | |
| **–4.5 m (–15.0 ft)** | 2 sets stabilizers lowered | **kg** | | | | 8790 | 7500 | 6380 | | | |
| | | **lb** | | | | 19,370 | 16,540 | 14,070 | | | |

**Note:** We would not recommend using these machines to lift with the stabilizers raised.



*Courtesy of Crane.Market*

# MH3049 Standard Equipment

## Standard Equipment

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

### ELECTRICAL

- 24V DC
- Two 12V batteries
- Halogen cab and boom lights
- Engine and hydraulic compartments service lights
- Sealed wiring enclosures

### OPERATOR ENVIRONMENT

- Ground access cab
- Bolt-on FOGS
- Tempered glass windows
- Laminated glass front windshield
- Removable lower windshield
- Sliding upper door window
- Suspension seat with adjustable arm rest
- Retractable 76 mm (3") seat belt (cloth)
- Skylight with sun shade
- Upper windshield wiper and washers
- Positive filtered ventilation
- Bi-level air conditioner, heater and defroster
- Instrument panel and gauges
- Interior lighting
- Coat hook
- Audible rearview camera monitor
- LCD monitor
  - Full graphic color display with language display capability
  - Filter and fluid change notifications
  - Working hour information
  - Machine condition monitoring

### POWER TRAIN

- 224 kW (300 hp) Cat C9 ACERT diesel engine
- Variable pitch auto reversing fan
- Precleaner plus two-stage air filter

### UNDERCARRIAGE

- Four independent wheel drives with planetary gear boxes
- Oscillating rear axle with lock-out feature
- Two mode shift
  - Standard and creeper speeds
- Four wheel independent hydraulic braking plus park brake
- One button operation for all outriggers plus individual controls
- Guarded outrigger cylinders

### OTHER STANDARD EQUIPMENT

- Upper and lower auto-lube (excluding cab linkage and outriggers)
- Operating system
- Rearview camera
- Various tire options

### HYDRAULIC SYSTEMS

- Load sensing variable displacement hydraulics with proportional electro-hydraulic controlled, pre-compensated valves and flow sharing
- Two 284 L/min (75 gal/min) main pumps
- Dedicated closed loop hydrostatic swing system with electro-proportional controls
- 155 L/min (41 gal/min) swing pump at 35 163 kPa (5,100 psi) with large capacity direct drive swing motor
- 1321 mm (52") ring gear
- 23 L/min (6 gal/min) pump for hydraulic cooling fan
- Induction hardened cylinders with electronic cushions
- Load holding valves on cylinders for main and secondary booms
- Load holding valves on cylinders for outriggers
- Load holding valves on cylinders for cab riser



Courtesy of Crane.Market

## FACTORY INSTALLED OPTIONAL EQUIPMENT

Optional equipment may vary. Consult your Cat dealer for details.

- 25 kW solid state generator
- Hydraulic warm-up valve
- Hydraulic tank heater
- High intensity boom lights
- Heavy rear vent guard

## FIELD INSTALLED OPTIONAL EQUIPMENT

Optional equipment may vary. Consult your Cat dealer for details.

- Cab reflective film
- Auxiliary keypad
- Software and decals for joystick control reconfiguration
- Cat Product Link



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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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