MH3024

Wheel Material Handler

Engine		
Engine Model	Cat® C7.1 ACERT™	
Emissions	U.S. EPA Tier 4 Final	
Power (Maximum)		
ISO 9249/SAE J1349 at 1,700 rpm	126 kW	169 hp
ISO 9249/SAE J1349 at 1,700 rpm (metric)		171 hp
ISO 14396	129.4 kW	174 hp
ISO 14396 (metric)		176 hp

Weights		
Operating with Work Tool	22 330-27 000 kg	49,229-59,525 lb
Working Ranges		
Maximum Reach (stick pin)	12 480 mm	14'11"
Maximum Height (stick pin)	13 300 mm	43'3"
Drive		
Maximum Travel Speed	25 km/h	15.5 mph

Introduction

We know that when it comes to material handling equipment, your success depends on high productivity and dependable performance. The MH3024 offers a great compromise between the agility, versatility and performance of a wheeled excavator and the stability, efficiency and power needed to cope with harsh environments and applications of industrial, scrap, waste recycling and bulk handling operations, which call for safe, quality and reliable products, while generating a low operating cost to the owner.

Contents

The new MH3024 is here to help you take on the wide variety of challenges you face every day, more easily and with more pleasure.

Commitment from the Ground Up.

Next Generation Key Features

Commitment from the Ground Up

Safety and Comfort Are Not Optional

- Embedded smart devices help enforce safe behaviors, like the automatic swing lock, brake and axle lock, and safety lever
- The new cab contributes to your comfort with limited vibrations and drastically reduced sound levels
- Improved access with new and longer handrails, steps and service platform
- Improved visibility with enlarged glass areas, rear and side cameras and LED working lights

Make the Move to the Next Generation

Refinements. From the whole design to the smallest detail. Convenient features, new advanced and transparent technologies, not only to reduce emissions but to further improve your daily experience when working with our products.

Made to be Efficient

Recognizing that fuel efficiency is directly affected by hydraulic performance, the hydraulic system in the MH3024 is carefully designed to provide the work needed without wasting fuel. A high capacity hydraulic cooling system keeps operating temperatures well-balanced, resulting in longer component life, higher efficiency and lower repair cost.

Made to Keep Your Costs Down

Not only does the machine give you all the performance you need, but it does so while providing a great deal of precision, and speed with an absolute minimum fuel consumption – and zero impact on your efficiency.

Maintenance: Keep it Simple

Ground level and grouped service points, automatic central greasing, dedicated system compartments and many other features that make your maintenance quick and easy.

Made to Make Operation Easy and Pleasant

Have a seat, you will be impressed by the quietness and comfort of the cab. Feel relaxed, we help you make sure you're safe.

Integrated Technologies

Enjoy integrated technologies; they act transparently.

Be Flexible to Win

When you add the multiple Cat attachments that help you do all kinds of jobs, you simply won't find a better machine.

Sustainability

Generations Ahead in Every Way

Fuel Efficiency and Reduced Exhaust Emissions

The engine meets Tier 4 Final emission standards and performs the same amount of work as the previous model, all while burning less fuel, which means more efficiency, less resource consumption, and fewer emissions.

Quiet Operation

Outstandingly low sound levels, you won't believe your machine is running.

Transparent Technologies and Longer Service Intervals

- The new Eco Modes, Auto Engine Speed Control and Engine Idle Shutdown help further reduce your overall fuel consumption.
- Product Link™ allows remote monitoring of the machine and helps improve overall efficiency.
- You Cat dealer can help extend service intervals, meaning fewer fluids and disposals, all adding up to lower costs.

Biodiesel and Biodegradable Hydraulic Oil

- The MH3024 has the flexibility of running on either ultra-low-sulfur diesel (ULSD) fuel with 15 ppm of sulfur or less or biodiesel (up to B20) fuel blended with ULSD.
- Cat BIO HYDO™ Advanced HEES™ reduces the impact on the environment.

Cat Certified Used

This program is a key element in the range of solutions offered by Caterpillar and Cat dealers to help customers achieve growth at the lowest cost while eliminating waste. Used equipment is inspected, guaranteed and ready for work and customers will benefit from a Caterpillar warranty.

Engine
Power, Reliability, and Fuel Economy

The Power and Performance You Need

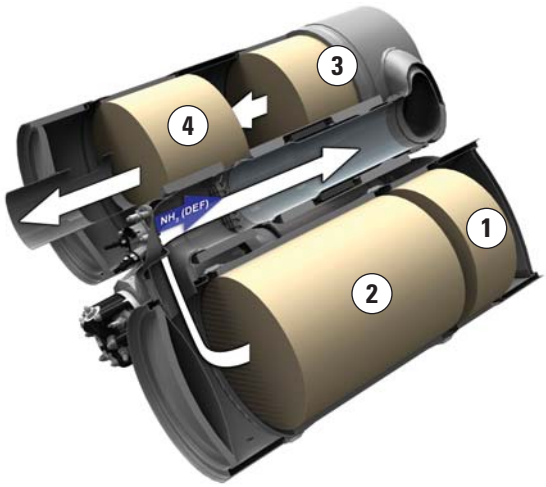
Constant Power Strategy
Provides a quick response to changing loads, while delivering the same amount of power regardless of operating conditions.

A Transparent Emission Solution That Works.
The Cat C7.1 ACERT engine meets today's Tier 4 Final emission standards, and it does so without interrupting your job process. It is designed to be:

- **Transparent:** no operator intervention
- **Durable:** fit for life Diesel Particulate Filter (DPF)
- **Efficient:** no work interruption, even in case of extended idling time
- **Simple:** minimum maintenance. Longitudinal engine installation, which further simplifies maintenance.

Biodiesel Not a Problem
The engine can run on up to B20 biodiesel fuel that meets ASTM 6751 standards – all to give you more potential fuel-saving flexibility.

Proven Technology
To assure that our technology will meet your expectations for reliable trouble-free service, we subjected these engines and technologies to extensive operating hours of test and validation.



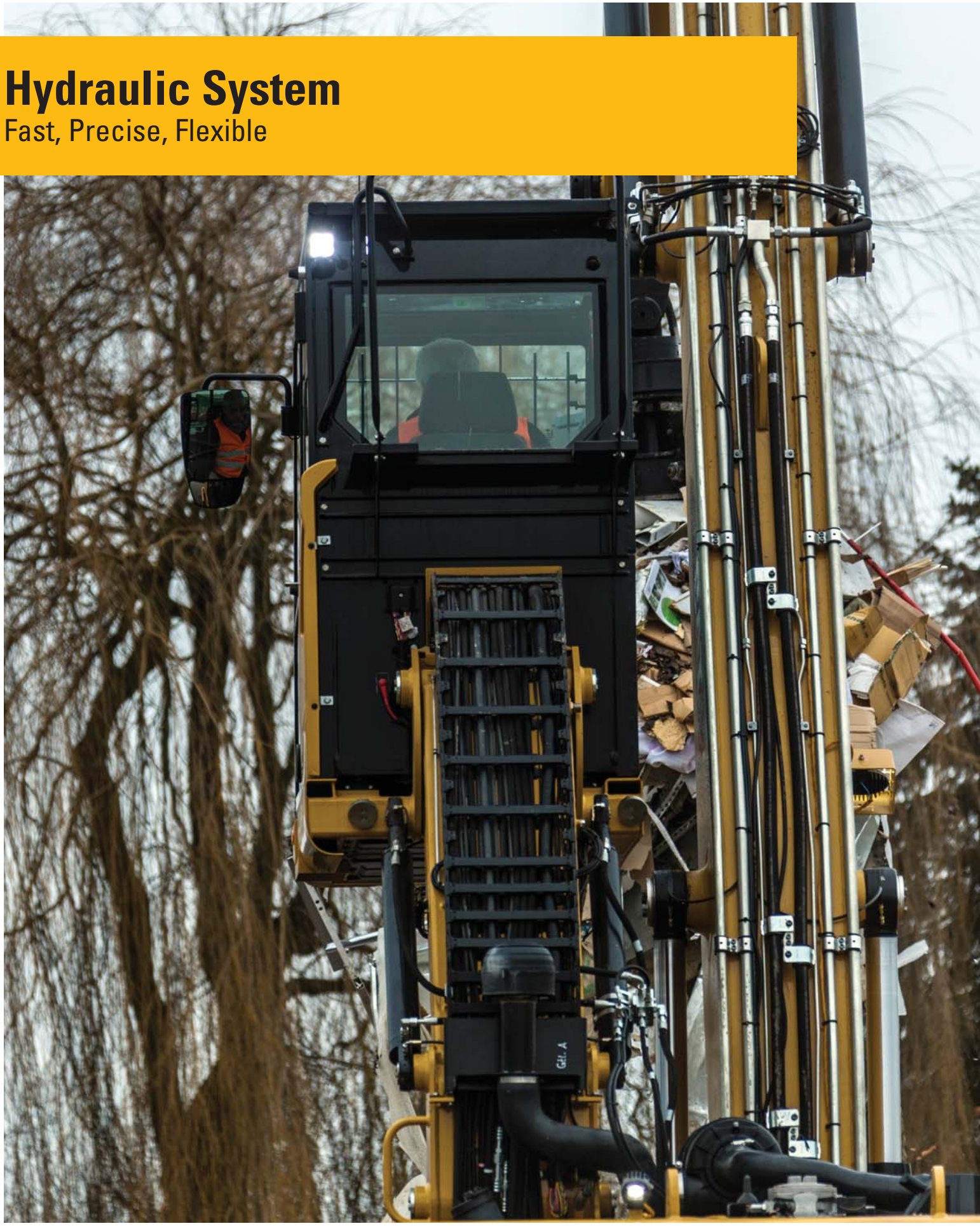
1) Diesel Oxydation Catalyst (DOC) 2) Diesel Particulate Filter (DPF)
3) Selective Catalytic Reduction (SCR) 4) Ammonia Oxidation Catalyst (AMOX)

Built-in Fuel Savers That Add Up

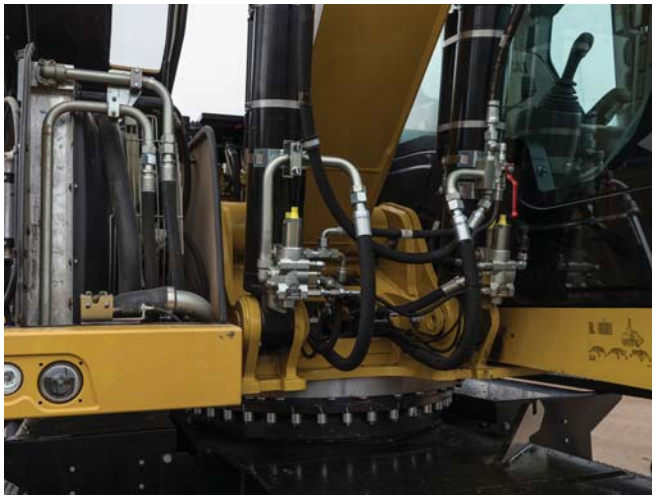
- Automatic Engine Speed Control: lowers engine speed when it is not needed.
- NEW Engine Idle Shutdown (when activated): turns the engine off when it's been idling for more than a pre-set amount of time.
- NEW Cooling System: variable speed and on-demand fan optimizing consumption.
- NEW enhanced Eco Mode: reduces engine speed while delivering the same power.
- Automatic shift to Travel Mode when you start riding: optimizes driveline performance while preserving fuel.

Hydraulic System

Fast, Precise, Flexible



When it comes to moving material quickly, you need efficient hydraulics – the type the MH Series can deliver.



Efficient Design, Smart and Fast

- **Simple Design** – The new hydraulic valve compartment and routings offer a simple and clean design to help ensure durability. Everything is reachable from ground level.
- **Smart Main Hydraulics** – The system allows reducing the load on the engine when not needed, which translates into lower fuel consumption.
- **Dedicated Swing Pump** – A closed hydraulic circuit is dedicated to the swing only. Having two separate pumps, one for the swing and the second for the other functions allows faster and smoother combined movements.

Control Like No Other

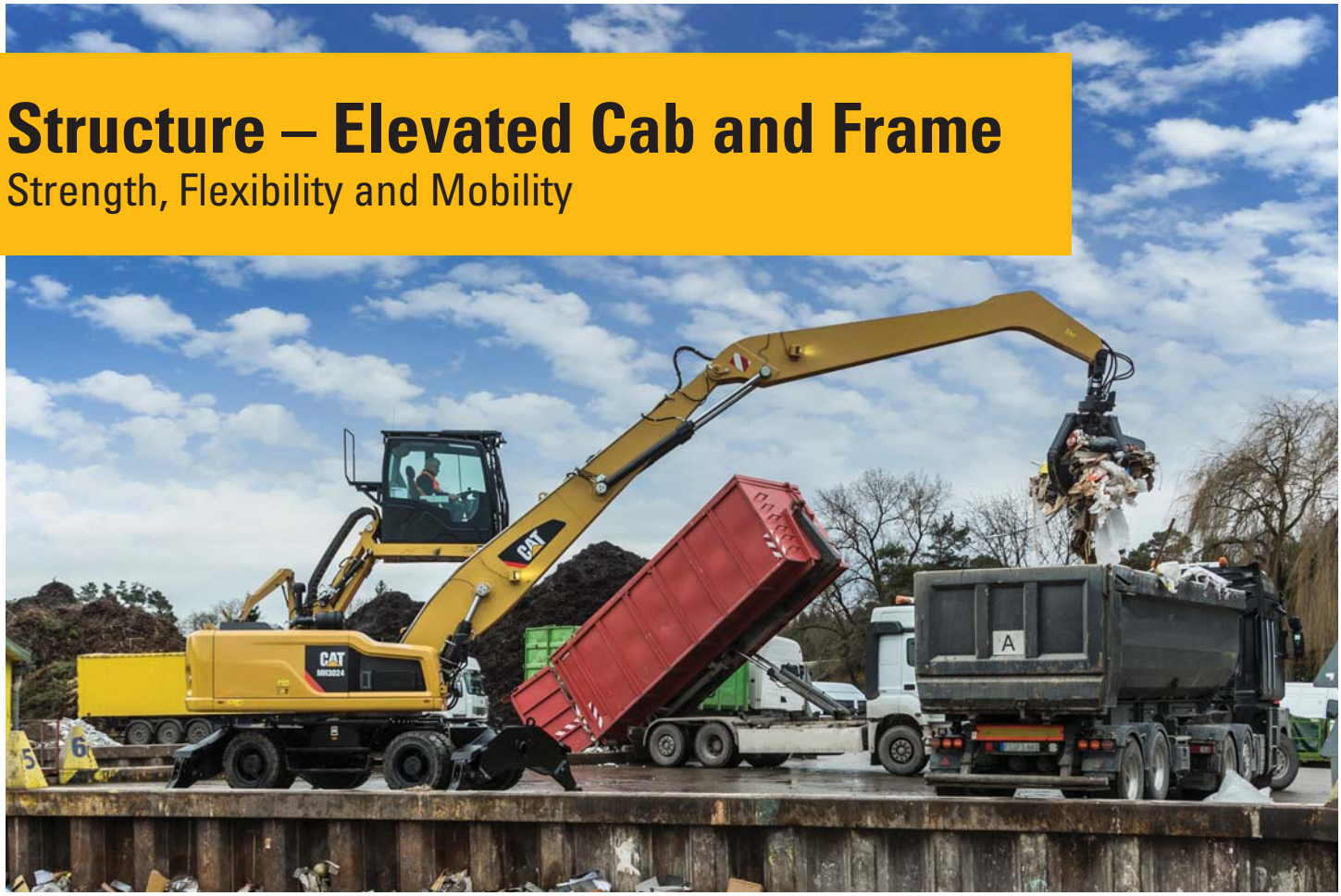
- **Electronic Pump Control** – Controllability is one of the main attributes of the MH3024, and one of the key contributors to this is the Electronic Pump Control (EPC) that's designed to improve response time and precision. It puts flow exactly where you need it, when you need it, which means a much smoother operation and greater efficiency.
- **Adjustable Hydraulic Sensitivity** – Allows you to adjust the aggressiveness of the machine according to the application.
- **Stick Regeneration Circuit** – Increases efficiency and helps enhance controllability for higher productivity.

Well Balanced Cooling Package

The hydraulic oil cooler is mounted side-by-side with the engine radiator and the air-to-air aftercooler (ATAAC). Located separately from the engine and featuring a well-balanced sizing, the new cooling package offers unprecedented up-times even in difficult environments.

Structure – Elevated Cab and Frame

Strength, Flexibility and Mobility



High Visibility – 2400 mm (94.5 in) Elevated Cab

The hydraulic cab riser is designed to be:

- Stable – Wide lift arms, deep box-sectioned design, strong top and bottom links and retractable hydraulic cylinders used to raise the cab for greater stability.
- Fast – Two heavy-duty hydraulic cylinders provide quick and controlled up and down travel.
- Comfortable – The parallelogram design of the linkage allows the cab to remain level at all ranges of motion. Cab movement is also slowed as it reaches the end of the riser stroke, with no sudden start/stop effect.
- Safe – The cab can be lowered using either a lever inside the cab or one on the frame at ground level in the event of a hydraulic malfunction.

Undercarriage Options

Effective hydraulic line routing, transmission protection and heavy-duty axles make the Cat undercarriages perfect for material handler applications. Three different undercarriages are available to provide the stability you need for your applications:

- Material Handling – The Material Handling undercarriage with four welded outriggers is ideal when extra stability is needed.
- Material Handling with Dozer Blade – An optional expansion to the Material Handling Undercarriage includes an additional dozer blade mounted ahead of the front stabilizers to be used to push material commonly encountered in waste and millyard applications.
- The standard undercarriage allows for different kinds of stabilizers and blades to be attached either to the front or to the rear.

Heavy-Duty Axles

The front axle offers wide oscillating and steering angles. The transmission is mounted directly on the rear axle for protection and optimum ground clearance.

Advanced Disc Brake System

The disc brake system acts directly on the hub instead of the drive shaft to avoid planetary gear backlash. This minimizes the rocking effect associated with working free on wheels.

Driveline Concept

The driveline design effectively utilizes engine torque and power to provide a comfortable ride.

Ground Clearance

The MH3024 offers good ground clearance, with the transmission mounted on and protected by the rear axle.

SmartBoom

Allow Your Operator to Fully Concentrate on Production

The unique Cat SmartBoom significantly enhances operator comfort and job efficiency by reducing stress and vibrations transmitted to the machine. Loading is more productive and more fuel efficient as the return cycle is reduced while the boom down function does not require pump flow.

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 MH3024's booms and sticks are purpose built for the loads encountered in material handling applications.

MH Boom

MH booms include high pressure hydraulic lines for opening and closing functionality and medium pressure lines for implement rotation.

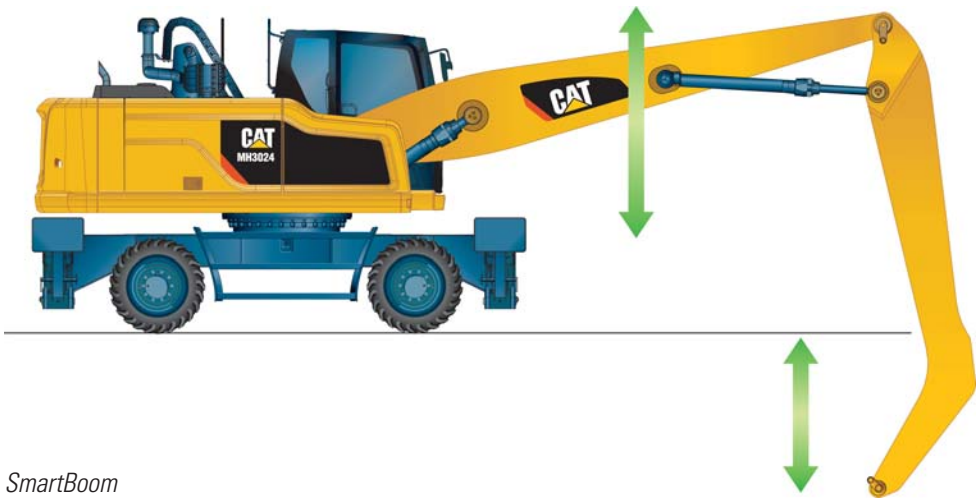
MH Sticks

MH sticks are equipped with high and medium pressure auxiliary lines. The 4900 mm (16'1") and 5900 mm (19'4") Drop Nose Sticks offer the reaching and lifting capabilities required for typical MH applications, while the 4800 mm (15'9") Straight Stick is the best solution when additional work tool functionality is needed.

Special Applications

The MH3024 offers the ability to combine the hydraulic cab riser with a traditional excavator front linkage. This combination has been proven in transfer station, mining, and millyard applications.

Automatic lubrication of the whole uppercarriage extends component life, protecting your equipment.



SmartBoom

Smart Features

When Operation Becomes as Easy as Pleasant

Joystick Steering (Optional)

Keep both hands on your joysticks even when you need to reposition the machine while simultaneously moving the implements.

Swing and Auto Travel Lock

No need for the operator to bend to engage the swing lock pin.

- Just press a button,
- Align the upper to the lower frame,
- Enjoy the ride: a green indicator confirms the swing and the implements have been automatically locked.

Integrated Pin Code

No need to buy optional security system to protect your equipment against theft.

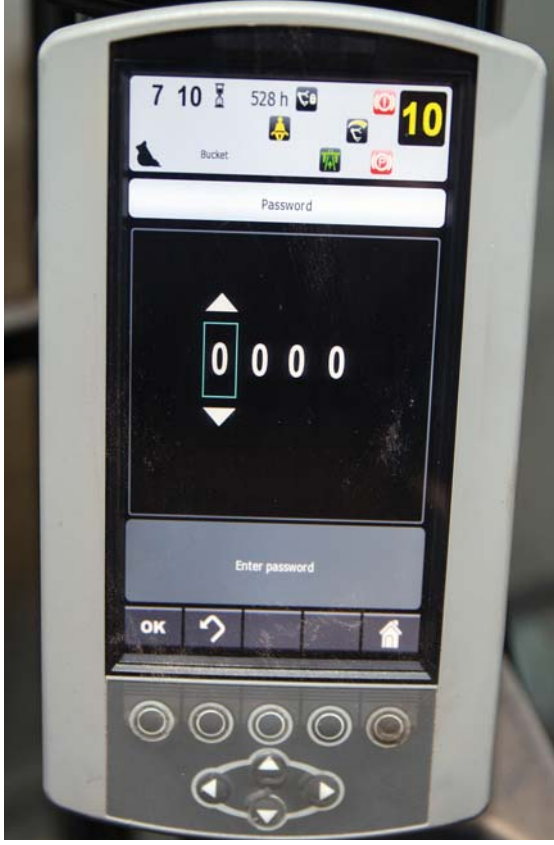
- The pin code is integrated into the monitor (standard)
- Entering the right code allows the engine to start

The Machine Security System (MSS – optional) adds even more protection when needed.

Cruise Control

Focus on the working environment, not on your foot. No need to press the pedal all the time.

- Choose the very speed you wish
- Press the quick access button on the monitor
- Enjoy the ride



Load and Go Auto Axle Lock

Presses the Pedal for You, Reducing the Number of Actions You Need to Do

The machine automatically detects when the service brake and axle need to be locked (like when working), or unlocked (roading), hence removing the need for the operator to systematically press the pedal. Brake and axle are released automatically by pressing the travel pedal again.

Premium Comfort
Keeps Operators Productive All Shift Long

Legacy from the Renowned Cat Wheeled Material Handlers
Designed for the operator, our cabs are unique.

Ergonomic Layout
- Frequently used switches are centralized, kept to the minimum and ideally located close to the joysticks.
- Storage compartments are useful … when well designed. The lunch box provides sufficient room to store a hard hat. Several other areas include drink, phone, or key holders.

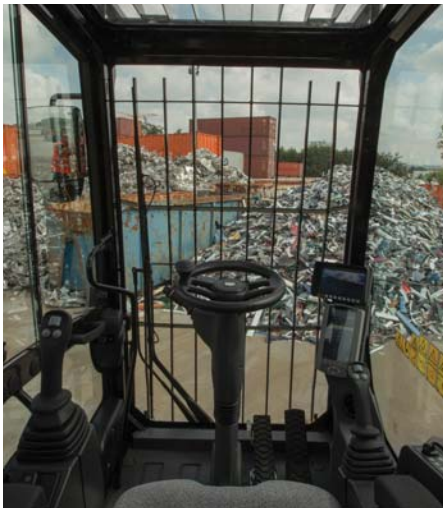
Comfortable Seat Options
Our seats provide all the comfort needed for a long day of work, including FULL adjustment. All seats are heated and air suspended. Automatic weight adjustment and air cooled seats are available.

Safety – Not Optional
FOPS cabs, seat belt alarm, safety lever, sideview camera … among others.

Details That Make the Difference
Have a look at the cab; you will see it is through details that we improve pleasure of operating.

Smart Controls to Reduce Fatigue
- Features like SmartBoom or joystick steering will be precious to increase your productivity.
- New technologies that work transparently like the swing and auto travel lock or the automatic brake and axle lock, reduce the number of tasks you need to do.

Plug, Charge and Play Your Devices
- The 12V 10A power supply socket is conveniently located for charging your laptop, or a tablet.
- A CD/MP3 radio with speakers and USB port is available.



Simplicity and Functionality
For Ease of Operation

A Cab Just for You – Fully Adjustable
- Seat armrests, in height and angle
- Steering column adjustment, not only tilting fore/aft but also in height
- Hydraulic sensitivity of the machine to make it more or less aggressive
- Joystick controls, buttons and thumb wheels
- Automatic air conditioning

Incredibly Low Sound Levels, Less Fatigue
Operator sound level has been reduced thanks to a new cab design and increased cab pressure, which also prevents from dust entry. Add in the rubber mounts to fix the cab on the frame and you have a cab that's as quiet as any of today's premium cars.

Outstanding Visibility: See the difference!
- Standard LED working lights and halogen roading lights
- Standard LED dome light
- All glass areas have been drastically increased
- Choice of 70/30 front windshield or one piece windshield
- New wide angle mirrors including a lower mirror for a better visibility to the ground
- Parallel intermittent (four speeds) wipers covering the whole windshield

Standard Rear and Side Wide Angle Cameras
Cameras let you see what's going on around. The image from the side camera is displayed on an additional wide color screen, offering the full view from the front to the rear of the machine. The rear camera is integrated into the counterweight for enhanced protection.

Large Color Monitor
Easy to read and in local language, the high resolution LCD monitor will keep you aware of any important information. "Quick Access" buttons allow a quick selection of favorite functions. The tool select function lets you preset up to ten different hydraulic attachments for quick tool changes.

Serviceability
When Uptime Counts

Convenient Access Built In
You can reach routine maintenance items like fuel and engine oil filters and fluid taps at ground level while fuel and DEF tank are accessible from the safety of the slip-resistant new service foldable step. Compartments feature wide composite service doors, designed to be more resistant to shocks, which all include gas struts to facilitate the opening. Components are now gathered in specific dedicated compartments, like the special electrical compartment.

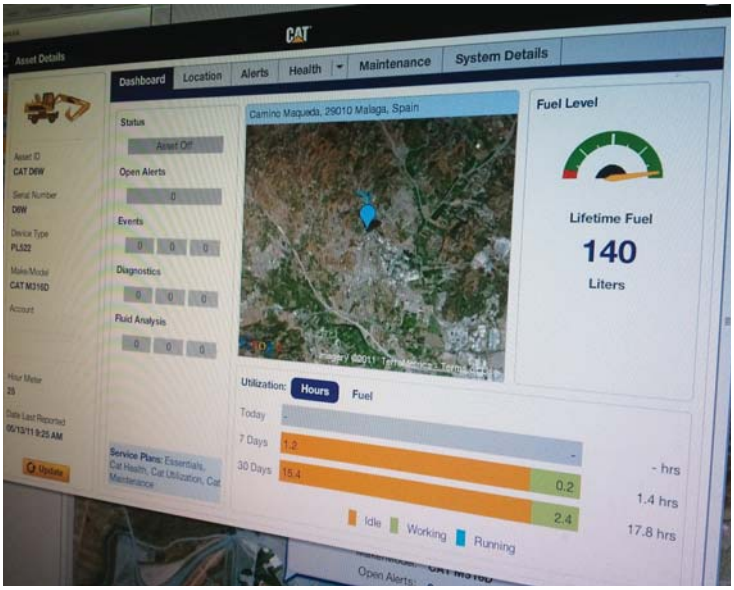
A Smart Design for Any Temperature
The side-by-side and axial fan design allows greater cooling performance. The system is completely separated from the engine compartment to reduce noise and heat, and all radiators are gathered in the same compartment while featuring easy-to-clean cores with a tilting device that requires no tool to unlock.

A Fresh Idea
Ventilation inside the cab allows outside air to enter through a fresh air filter. The filter is located on the side of the cab to make it easy to reach, and it is protected by a lockable door that can be opened with the ignition key.

Lube and Fuel Options
An automatic lubricator system is an available time-saving standard feature for greasing the whole uppercarriage. Greasing points for the undercarriage are kept to a minimum and grouped. An electric refueling pump is also available. The hose is stored in a dedicated tray, for more cleanliness. Add in the new electric lift pump removing the need to prime the system manually, the standard fuel and water separator and you get a machine that does the fastidious works for you.

Keep it simple.

Integrated Technologies
It Pays to Know



CAT® CONNECT

EQUIPMENT MANAGEMENT | PRODUCTIVITY | SAFETY | SUSTAINABILITY

Cat Connect makes smart use of technology and services to improve your job site efficiency. Using the data from technology-equipped machines, you'll get more information and insight into your equipment and operations than ever before.

Cat Connect technologies offer improvements in these key areas:

EQUIPMENT MANAGEMENT

Equipment Management – increase uptime and reduce operating costs.

PRODUCTIVITY

Productivity – monitor production and manage job site efficiency.

SAFETY

Safety – enhance job site awareness to keep your people and equipment safe.

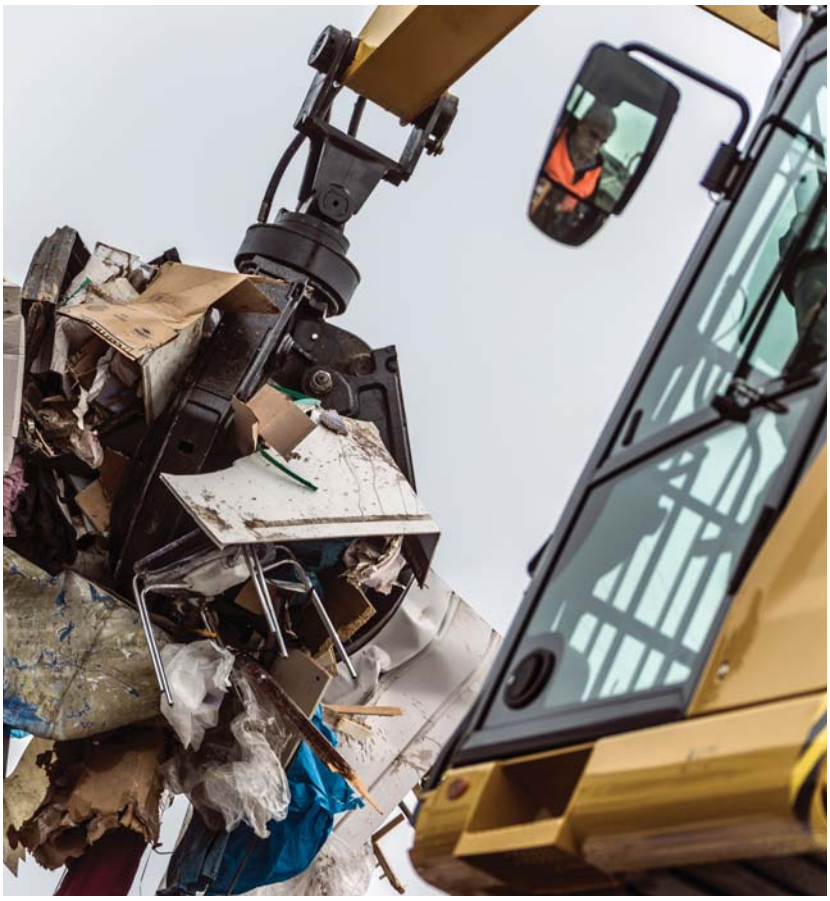
Featured Cat Connect technologies include the following:

Link

Link technologies provide wireless capability to machines to enable two-way transfer of information collected by on-board sensors, control modules, and other Cat Connect technologies.

Manage Your Machine Remotely

Cat Product Link is a system that is deeply integrated into the machine monitoring system to take the guesswork out of managing your equipment. The system tracks location, hours, fuel usage, productivity, idle time, and diagnostic codes and shares it with you through VisionLink® to help you maximize efficiency, improve productivity, and lower operating costs.



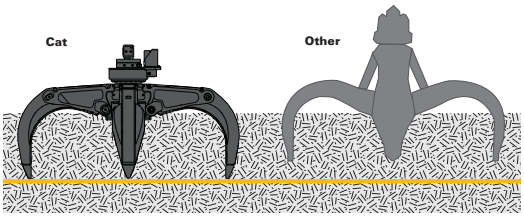
Work Tool Attachments

Move More, Make More

Power Match*

Match your Cat hydraulic work tools to your Cat machine, and get the most out of the standard, built-in software. Ten hydraulic pump flow and pressure settings can be preset within the monitor, eliminating the need to adjust the hydraulics each time a tool is changed. Attachment changes have never been easier!

*For straight/linkage sticks.



Attachment Solutions for Scrap Recycling, Bulk Handling

When productivity, reliability and stability are important, Cat attachments are the perfect solution for the MH3024. Choose one for your Cat machine for maximum performance.

Productive and Perfectly Matched

Loading and unloading is foundational to your productivity. Grapples are sized right for the MH3024. They are designed for maximum penetration into the pile. The full power of your machine is utilized to provide fast open/close times and powerful closing force. Full, 360° rotation systems allow precise placement. Together, an MH3024 and Cat grapple allow you to move volumes with minimal time and effort.

Built for Severe Material

Cat grapples are built to take on the material you move. Hydraulic components are protected from damage, yet easily accessed for routine maintenance. Areas that dig and penetrate are made of high quality, wear resistant material to keep them in working condition. Components that pivot and move are engineered to the latest standards for a long life. Cat grapples last for a positive impact to your bottom line.

Orange Peel Grapples

The perfect solution for scrap yards, recycling plants and transfer stations. These grapples are available with 4 or 5 tines, in capacities from 600 L (0.78 yd^3) to 1000 L (1.31 yd^3). Several shell choices allow further customization of your grapple to the specific material you work with.

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.

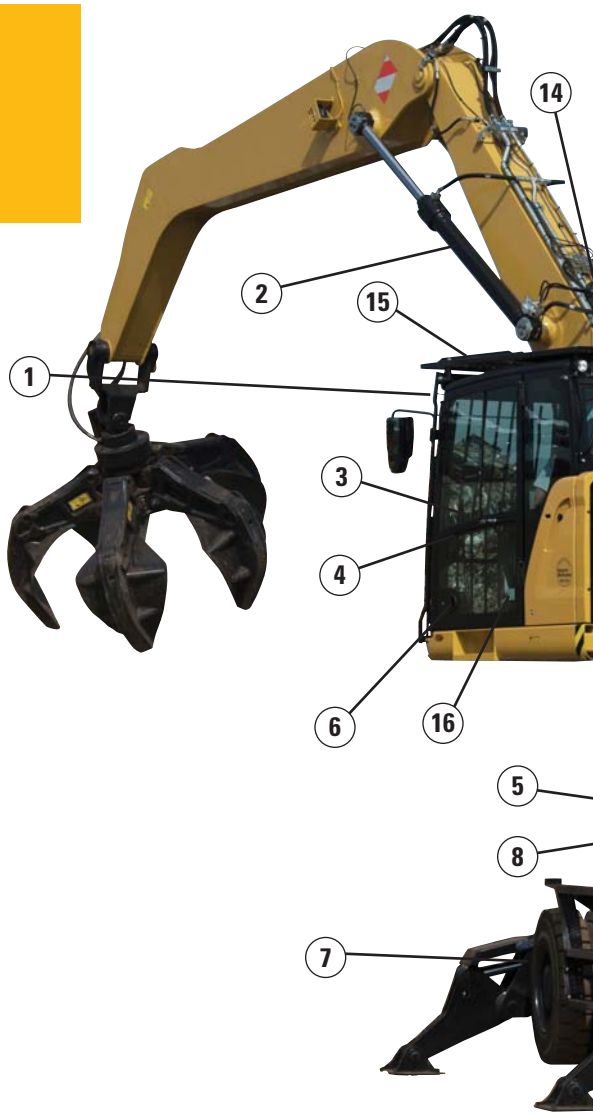
Contact your local Cat dealer to learn more about the specific grapple choices available in your region.

Safety
Your Safety Is NOT Optional

Embedded Features

Smart devices are embedded to offer as much safety as possible for your operators and help enforce safe behavior:

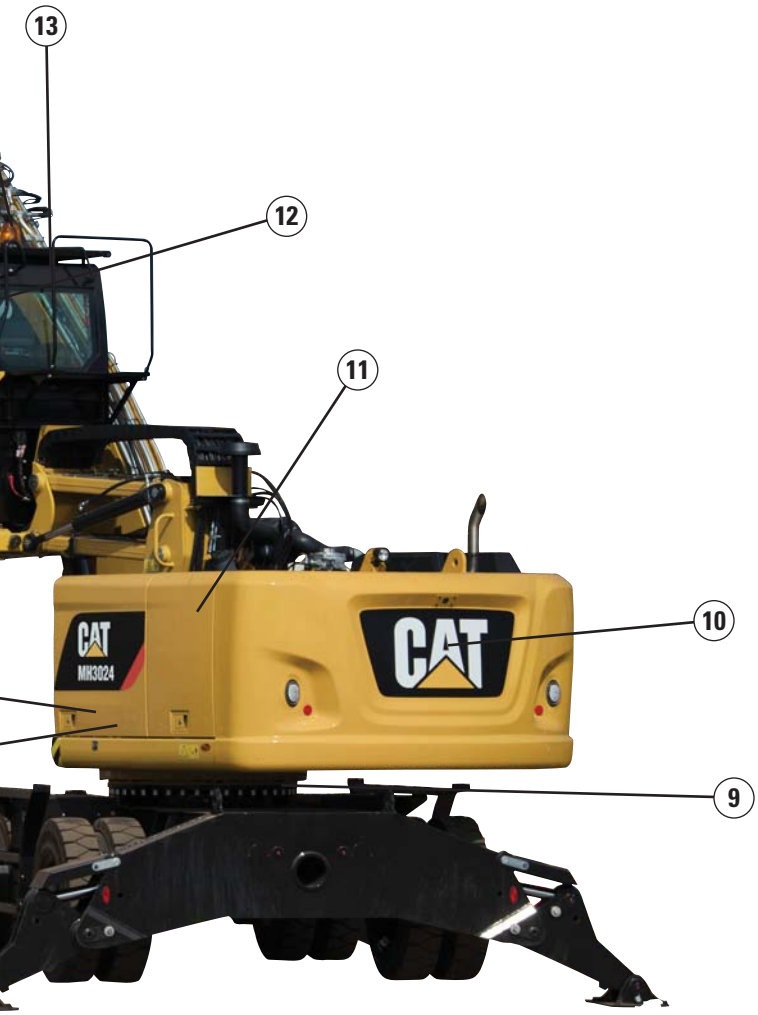
- Safety seat belt and warning indicators (monitor)
- Automatic swing lock
- Automatic brake and axle lock
- Safety lever, preventing exit when the implements are not locked out
- Emergency shut off switch and battery switch disconnect
- Adjustable travel alarm
- Lowering check valves



Cab Ingress

We bring a solution to allow you to safely climb into the cab:

- Three longer access steps, aligned with the cab entry
- New additional step integrated into the skirt, directly below the cab door
- Anti-skid plates on all walkways and steps reducing slipping hazards
- Convenient door handrail
- Additional extended handrail, from the top to the bottom of the cab
- Tiltable console, not to obstruct entry into the cab
- Safety lever built into the tiltable console to make sure the way in and out is free of obstacles



1) Laminated windshield and skylight window
2) Lowering check valves
3) Safety seat belt indicator
4) Safety lever
5) Emergency shut-off switch
6) Automatic brake and axle lock
7) Punched, anti-slippery walking surfaces
8) Battery switch disconnect
9) Swing and implement electronic lock
10) Adjustable travel alarm
11) All doors equipped with gas spring cylinders
12) Emergency hammer and exit
13) Sound proofing
14) Beacon available
15) FOPS cab and top/front guards compatibility
16) Safety lever to lower the cab, either from the ground or directly from the cab

Smart Lighting

- LED lights for all working lights for enhanced visibility
- Halogen lights for all roading lights
- LED dome light for better illumination inside the cab

Safe and Quiet Cab

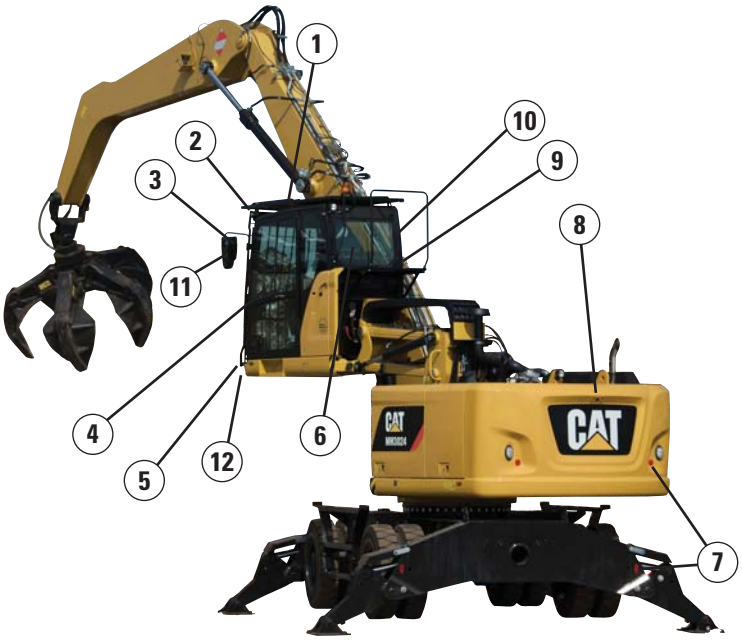
The all-new cab provides you with a safe environment. It also contributes to your comfort with limited vibrations and drastically reduced sound levels.

Great Views

- Enlarged glass gives you excellent visibility to the front, top, rear, and sides, even to the right
- Standard rearview camera gives you a clear field of view behind the machine through the monitor. Camera is integrated into the counterweight.
- Standard sideview camera, to check nothing is hidden to you from the front right hand side to the rear of the machine
- Lenses of all the cameras are wide angle and heated
- All mirrors are wide angle and allow view not only around the machine but also to the ground

Unmatched Visibility

Make Sure Nothing Is Hidden to You



Visibility all around is critical, especially for machines working and driving in industrial job sites.

1) Increased skylight and windshield glass area
2) Improved lighting with standard LED lights for all working lights
3) Optional heated mirrors
4) Great left hand side visibility with the new all glass door
5) Halogen roading lights
6) Wide rear window
7) Reflecting red lights on rear and blade/outriggers
8) Standard wide rearview camera
9) Standard side camera and dedicated wide monitor
10) Large right hand side window
11) Mirrors, wide angle, with additional lower mirror for ground visibility
12) High visibility – 2400 mm (94.5 in) elevated cab

Complete Customer Care

Your Cat Dealer Will Support You Like No Other

Support You Can Count On

From helping you to choose the right machine to knowledgeable on-going support, Cat dealers provide the best-in-sales and services.

- **Best long-term investment** with financing options and services
- **Productive operation** with training programs
- **Preventive maintenance** and guaranteed maintenance contracts
- **Uptime**, with best-in-class parts availability
- **Repair, rebuild, or replace?** Your dealer can help evaluate the best option.

Engine

Engine Model	Cat C7.1 ACERT [1]	
Ratings	1,700 rpm	
Engine Gross Power (maximum)		
ISO 14396	129.4 kW	174 hp
ISO 14396 (metric)		176 hp
Net Power (Rated) [2]		
ISO 9249/SAE J1349	126 kW	169 hp
ISO 9249/SAE J1349 (metric)		171 hp
80/1269/EEC	126 kW	169 hp
Net Power (maximum)		
ISO 9249/SAE J1349	126 kW	169 hp
ISO 9249/SAE J1349 (metric)		171 hp
80/1269/EEC	126 kW	169 hp
Bore	105 mm	4.1 in
Stroke	135 mm	5.3 in
Displacement	7.01 L	427.8 in³
Maximum Torque at 1,400 rpm	830 N·m	612 lbf-ft
Number of Cylinders	6	

[1] Meets Tier 4 Final emission standards.

[2] Rated speed 1,700 rpm. Constant power from 1,500-1,700 rpm.

- Net power advertised is the power available at the flywheel when engine is equipped with air cleaner, CEM exhaust gas aftertreatment, alternator, and cooling fan running at intermediate speed.
- No derating required up to 3000 m (9,842 ft) altitude. Automatic derating occurs after 3000 m (9,842 ft).

Transmission

Forward/Reverse		
1st Gear	8.0 km/h	5 mph
2nd Gear	25.0 km/h	15.5 mph
Creeper Speed		
1st Gear	3.0 km/h	1.9 mph
2nd Gear	12.0 km/h	7.5 mph
Drawbar Pull	127.0 kN	28,550 lbf
Maximum Gradeability (25 000 kg/55,115 lb)	60%	

Swing Mechanism

Swing Speed	9.0 rpm	
Swing Torque	53.0 kN·m	35,430 lbf-ft

Undercarriage*

Axle Clearance	325 mm	12.8 in
Maximum Steering Angle	35.0°	
Oscillation Axle Angle	±5.0°	
Minimum Turning Radius		
Outside of Tire	6800 mm	22.3 ft
End of VA Boom	7800 mm	23.3 ft
End of One-Piece Boom	9300 mm	27.9 ft

*Dimensions valid for standard undercarriage.

Service Refill Capacities

Fuel Tank (total capacity)	420 L	111 gal
Diesel Exhaust Fluid (DEF) Tank	34.5 L	9.1 gal
Cooling System	46.9 L	12.4 gal
Engine Crankcase	18.5 L	4.9 gal
Rear Axle Housing (differential)	14 L	3.7 gal
Front Steering Axle (differential)	10.5 L	2.8 gal
Final Drive	2.5 L	0.7 gal
Powershift Transmission	2.5 L	0.7 gal

MH3024 Wheel Material Handler Specifications

Weights

Operating Weights*	22 330-27 000 kg	49,229-59,525 lb
MH Boom		
MH Undercarriage, Straight Stick	26 150 kg	57,651 lb
MH Undercarriage, Drop Nose Stick	25 770 kg	56,813 lb
Standard Undercarriage, Straight Stick	25 220 kg	55,601 lb
Sticks**		
Straight (4800 mm/15'9")	1265 kg	2,789 lb
Drop Nose (4900 mm/16'1")	860 kg	1,896 lb
Drop Nose (5900 mm/19'4")	1080 kg	2,381 lb
MH Push Blade	675 kg	1,488 lb
Dozer Blade	850 kg	1,874 lb
Solid Tires (delta vs. standard tires)	950 kg	2,094 lb
Counterweight		
Standard	4100 kg	9,039 lb
Optional	5200 kg	11,464 lb

*Operating weight includes solid tires, 5200 kg (11,464 lb) counterweight, full fuel tank, operator, four outriggers undercarriage, and an attachment (1400 kg/3,086 lb). Weight varies depending on configuration.

**Includes cylinder, bucket linkage, pins and standard hydraulic lines.

Hydraulic System

Tank Capacity	200 L	52.8 gal
System	352 L	93 gal

Hydraulic System: Maximum Pressure

Implement Circuit		
Normal	350 bar	5,076 psi
Heavy Lift	370 bar	5,366 psi
Travel Circuit	350 bar	5,076 psi
Auxiliary Circuit		
High Pressure	350 bar	5,076 psi
Medium Pressure	210 bar	3,046 psi
Swing Mechanism	310 bar	4,496 psi

Hydraulic System: Maximum Flow

Implement/Travel Circuit	359 L/min	95 gal/min
Auxiliary Circuit		
High Pressure	250 L/min	66 gal/min
Medium Pressure	49 L/min	12.9 gal/min
Swing Mechanism	127 L/min	33.5 gal/min

Tires

11.00-20 (dual pneumatic)
10.00-20 (dual solid rubber)

Push Blade

Blade Type	Radial	
Blade Height	920 mm	3.0 ft
Width	2990 mm	9.8 ft

Emissions and Safety

Engine Emissions	Tier 4 Final	
Fluids (optional)		
Cat Bio HYDO Advanced	Readily biodegradable	
	EU Flower eco-label certified	
Bio Diesel up to B20	Meets EN 14214 or ASTM D6751 with EN590 or ASTM D975 standard mineral diesel fuels	
Diesel Exhaust Fluid	Must meet ISO 22241	
Vibration Levels		
Maximum Hand/Arm		
ISO 5349:2001	<2.5 m/s^2	<8.2 ft/s^2
Maximum Whole Body		
ISO/TR 25398:2006	<0.5 m/s^2	<1.6 ft/s^2
Seat Transmissibility Factor		
ISO 7096:2000-spectral class EM5	<0.7	

Standards

Operator Protective Structure: Top/Front Guards	FOPS (Falling Object Protective Structure) meets FOPS criteria ISO 10262:1998 and SAE J1356:2008
Cab/Sound Levels	Meets appropriate standards as listed below

Sound Performance

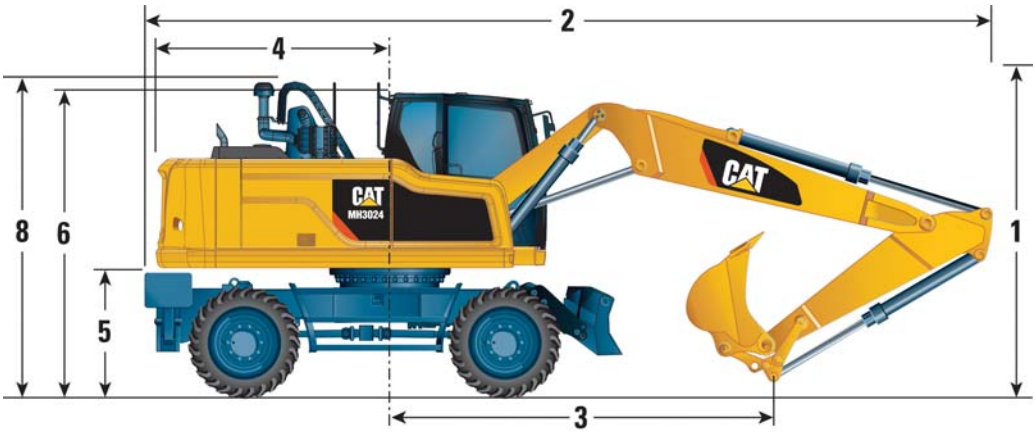
Operator Sound	
2000/14/EC	71 dB(A)
Spectator Sound	
2000/14/EC	100 dB(A)

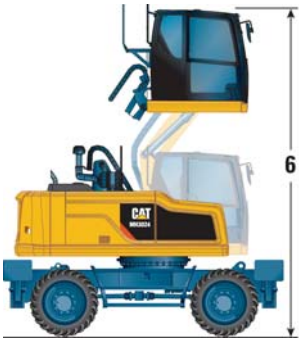
- Operator Sound – The operator sound level is measured according to the procedures specified in 2000/14/EC, for a cab offered by Caterpillar, when properly installed and maintained and tested with the door and windows closed.
- Exterior Sound – The labeled spectator sound power level is measured according to the test procedures and conditions specified in 2000/14/EC.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained for doors/windows open) for extended periods or in noisy environment(s).

MH3024 Wheel Material Handler Specifications

Dimensions – With Standard Undercarriage*

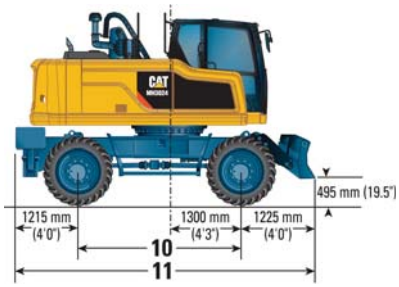
All dimensions are approximate.





Undercarriage with 2 sets of outriggers

Undercarriage with 1 set of outriggers and dozer blade



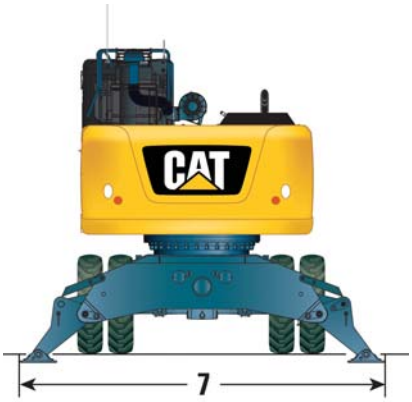
	VA Boom				One-Piece Boom			
	mm	ft/in	mm	ft/in	mm	ft/in	mm	ft/in
Stick Length	**2500**	**8'2"**	**2900**	**9'6"**	**2500**	**8'2"**	**2900**	**9'6"**
1 Shipping Height with Falling Object Guard and Handrails Lowered (highest point between boom and cab)	3375	11'1"	3375	11'1"	3375	11'1"	3375	11'1"
2 Shipping Length	9560	31'4"	9545	31'4"	9715	31'10"	9725	31'11"
3 Support Point	3755	12'4"	3525	11'7"	3720	12'2"	3445	11'4"
4 Tail Swing Radius	2825 mm (9'3")							
5 Counterweight Clearance	1310 mm (4'3")							
6 Cab Height with Hydraulic Cab Riser								
Cab Lowered – No Falling Object Guard, Handrails Lowered	3245 mm (10'8")							
Cab Lowered – No Falling Object Guard, Handrails Not Lowered	3350 mm (11'0")							
Cab Lowered – with Falling Object Guard	3375 mm (11'1")							
Cab Raised – with Falling Object Guard	5775 mm (18'11")							
Cab Raised – without Falling Object Guard	5645 mm (18'6")							
7 Overall Machine Width								
Width with Outriggers on Ground	3930 mm (12'11")							
Width with Outriggers Up	2750 mm (9'0")							
Width with Blade	2750 mm (9'0")							
8 Height of Tray Group Flex	3360 mm (11'0")							
9 Maximum Outriggers Depth	120 mm (4'7")							
10 Wheel Base	2750 mm (9'0")							
11 Undercarriage Length								
With 2 Sets of Outriggers Raised	5040 mm (16'6")							
With 1 Set of Outriggers and Dozer Blade Raised	5175 mm (16'11")							
12 Undercarriage Clearance	325 mm (12.8")							

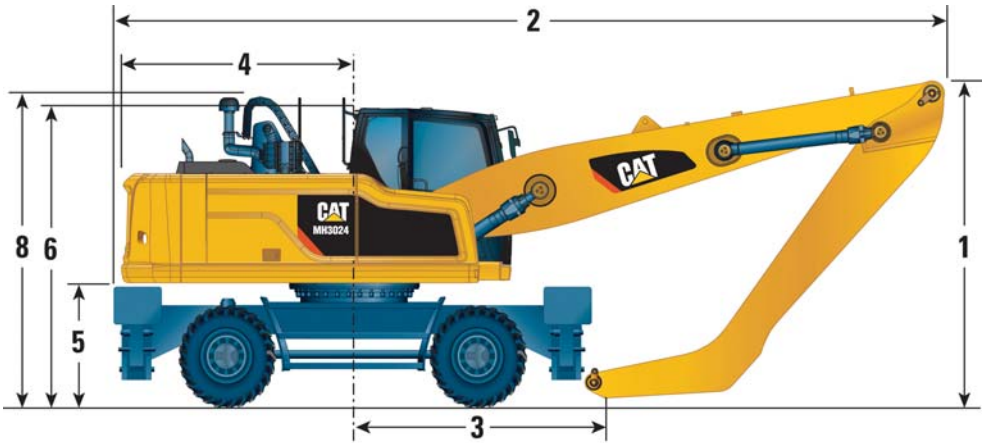
*Standard undercarriage with 2 sets of outriggers and dual pneumatic tires.

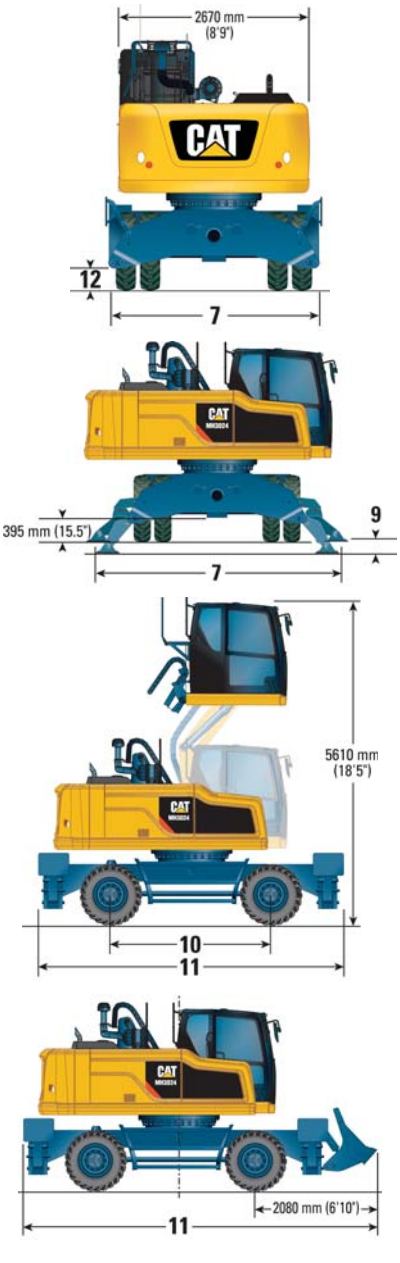
Note: Values are with pneumatic tires. For machines fitted with solid tires, all vertical dimensions have to be reduced by 35 mm (1.4"). For dimension 3 add 35 mm (1.4").

Dimensions – With MH Undercarriage (with pneumatic tires)

All dimensions are approximate.







	MH Undercarriage					
	MH Boom 6800 mm (22'4")					
	mm	ft/in	mm	ft/in	mm	ft/in
Stick Length	**4800**	**15'9"**	**4900**	**16'1"**	**5900**	**19'4"**
Stick Type	**Straight**		**Drop Nose**		**Drop Nose**	
1 Shipping Height with Falling Object Guard and Handrails Lowered (highest point between boom and cab)	3375	11'1"	3635	11'11"	3375*	11'1"*
2 Shipping Length	10 090	33'1"	10 040	32'11"	10 040*	32'11"*
3 Support Point	3085	10'1"	3225	10'7"	3060*	10'0"*
4 Tail Swing Radius	2825 mm (9'3")					
5 Counterweight Clearance	1310 mm (4'3")					
6 Cab Height with Hydraulic Cab Riser						
Cab Lowered – No Falling Object Guard, Handrails Lowered	3245 mm (10'8")					
Cab Lowered – No Falling Object Guard, Handrails Not Lowered	3350 mm (11'0")					
Cab Lowered – with Falling Object Guard	3375 mm (11'1")					
Cab Raised – with Falling Object Guard	5775 mm (18'1")					
Cab Raised – without Falling Object Guard	5645 mm (18'6")					
7 Overall Machine Width						
Width with Outriggers on Ground	4360 (14'3")					
Width with Outriggers Up	2990 mm (9'10")					
Width with the Special Front Push Blade	2990 mm (9'10")					
8 Height of Tray Group Flex	3360 mm (11'0")					
9 Maximum Outriggers Depth	125 mm (4'9")					
10 Wheel Base	2750 mm (9'0")					
11 Undercarriage Length	5250 mm (17'3")					
With MH Undercarriage Front Push Blade	6080 mm (19'11")					
12 Undercarriage Clearance	280 mm (10")					

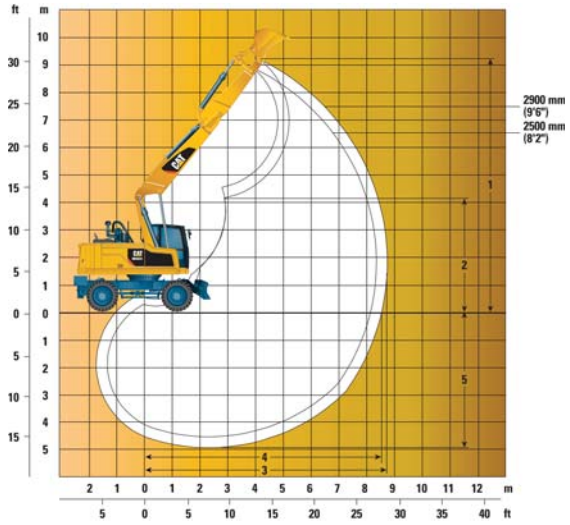
*5900 mm (19'4") stick needs to be detached for shipping.

Note: Values are with pneumatic tires. For machine fitted with solid tires, all vertical dimensions have to be reduced by 35 mm (1.4"). For dimension 3 add 35 mm (1.4").

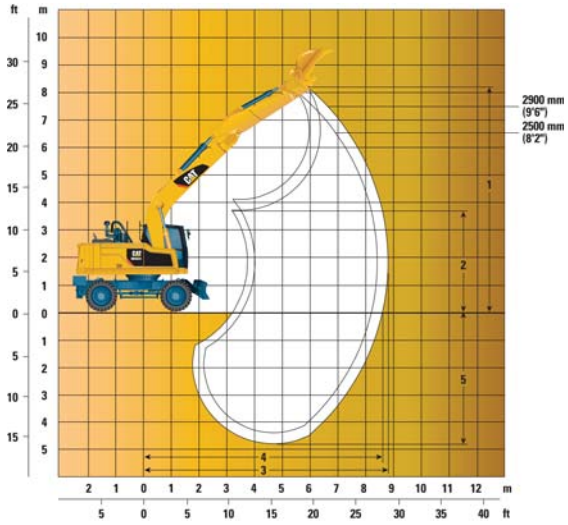
MH3024 Wheel Material Handler Specifications

Working Ranges

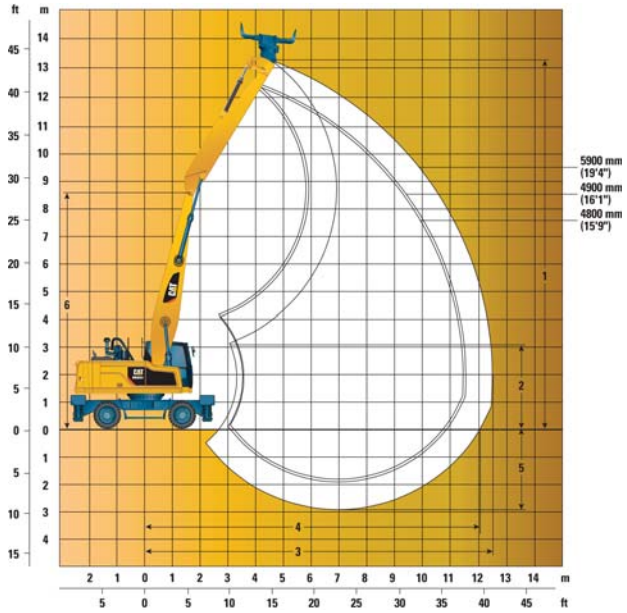
1



2



3



	1				2				3					
	Standard Undercarriage*								MH Undercarriage**					
Boom Type	VA Boom				One-Piece Boom				MH Boom					
	mm	ft/in	mm	ft/in	mm	ft/in	mm	ft/in	mm	ft/in	mm	ft/in	mm	ft/in
Stick Length	**2500**	**8'2"**	**2900**	**9'6"**	**2500**	**8'2"**	**2900**	**9'6"**	**4800**	**15'9"**	**4900**	**16'1"**	**5900**	**19'4"**
1 Maximum Height	8910	29'3"	9220	30'3"	7945	26'1"	8165	26'10"	12 425	40'9"	12 505	41'0"	13 300	43'8"
2 Minimum Dump Height	4530	14'10"	4135	13'7"	4070	13'4"	3675	12'1"	4120	13'6"	4025	13'2"	3090	10'2"
3 Maximum Reach	8285	27'2"	8675	28'5"	8395	27'7"	8770	28'9"	11 435	37'6"	11 530	37'10"	12 485	41'0"
4 Maximum Reach at Ground Level	8070	26'6"	8470	27'9"	8185	26'10"	8580	28'2"	10 720	35'2"	10 850	35'7"	12 050	39'6"
5 Maximum Depth	4565	15'0"	4965	16'3"	4360	14'4"	4760	15'7"	1820	6'0"	1920	6'4"	2925	9'7"
6 Boom Pin Height	NA	NA	NA	NA	NA	NA	NA	NA	8620	28'3"	8620	28'3"	8620	28'3"

All dimensions refer to sticknose pin.

*Standard undercarriage figures are calculated with pneumatic tires.

**MH undercarriage figures are calculated with solid tires.

MH3024 Work Tool Offering Guide*

Boom Type		One-Piece Boom				MH Boom					
Counterweight		4100 kg (9,039 lb)		5200 kg (11,464 lb)		4100 kg (9,039 lb)	5200 kg (11,464 lb)	4100 kg (9,039 lb)	5200 kg (11,464 lb)	4100 kg (9,039 lb)	5200 kg (11,464 lb)
Undercarriage/Outriggers		(1)		(1)		(2)	(2)	(2)	(2)	(2)	(2)
Stick Length		2500 mm (8'2")	2900 mm (9'6")	2500 mm (8'2")	2900 mm (9'6")	4800 mm (15'9")	4800 mm (15'9")	4900 mm (16'1")	4900 mm (16'1")	5900 mm (19'4")	5900 mm (19'4")
	Stick Type	Straight	Straight	Straight	Straight	Straight	Straight	Drop Nose	Drop Nose	Drop Nose	Drop Nose
Hydraulic Hammer	H115Es										
	H120Es										
	H130Es										
Multi Processor	MP318 CC Jaw										
	MP318 D										
	MP318 P										
	MP318 S										
	MP318 U										
Crusher	P315										
Pulverizer	P215										
Demolition and Sorting Grapple	G315B-D/R					**	**				
	G315B WH										
Scrap and Demolition Shear	S320B										
	S325B										
	S340B										
Compactor	CVP75										
Quick Coupler – Pin Grabber Coupler	CL-QC	This quick coupler is a match (straight/linkage stick).									
Orange Peel Grapple (4 Tines)	GSH15B 600 L (0.79 yd³)										
	GSH15B 800 L (1.04 yd³)										
	GSH20B 600 L (0.79 yd³)										
	GSH20B 800 L (1.04 yd³)										
	GSH20B 1000 L (1.3 yd³)										
Orange Peel Grapple (5 Tines)	GSH15B 400 L (0.52 yd³), 500 L (0.65 yd³), 600 L (0.79 yd³)										
	GSH15B 800 L (1.04 yd³)										
	GSH20B 600 L (0.79 yd³)										
	GSH20B 800 L (1.04 yd³)										
	GSH20B 1000 L (1.3 yd³)										

(1) With the Outriggers front and rear undercarriage

(2) With the MH undercarriage

* Offerings not available in all areas. Matches are dependent on wheel material handler configurations. Consult your Cat dealer to determine what is offered in your area and for proper work tool match.

** Demolition Grapple only.

Note: Demolition and Sorting Grapple: D-Demolition shells, R-Recycling shells

- Attachment is a match
- Pin-on only
- Boom mounted
- Not recommended
- Maximum Material Density 1800 kg/m³ (3,000 lb/yd³) (standard material)
- Maximum Material Density 1200 kg/m³ (2,000 lb/yd³) (light material)

MH3024 Wheel Material Handler Specifications

Lift Capacities

All values are in kg, hydraulic cab riser, work tool: none, with counterweight (5200 kg), heavy lift on.

Undercarriage
MH or Standard

Boom
6.8 m MH

Stick
5.9 m MH

	Undercarriage configuration	3000 mm			4500 mm			6000 mm			7500 mm						mm
12 000 mm	MH – stabilizers up – solid tires							7200	7200	5550				5400	5400	4150	7090
	MH – stabilizers down – solid tires							*7450	*7450	*7450				*5700	*5700	*5700	
	Lower (std UC) – f. stabilizer & r. dozer up							7100	6750	5350				5350	5050	4000	
	Lower (std UC) – f. stabilizer & r. dozer down							*7450	*7450	*7450				*5700	*5700	*5700	
	Lower (std UC) – f. dozer & r. stabilizer up							7300	6550	5350				5500	4900	4000	
	Lower (std UC) – f. dozer & r. stabilizer down							*7450	*7450	*7450				*5700	*5700	*5700	
	Lower (std UC) – 2 sets stabilizers up							7250	6700	5400				5450	5050	4050	
	Lower (std UC) – 2 sets stabilizers down							*7450	*7450	*7450				*5700	*5700	*5700	
10 500 mm	MH – stabilizers up – solid tires										5150	5150	4000	3800	3800	2900	8910
	MH – stabilizers down – solid tires										*7250	*7250	*7250	*4950	*4950	*4950	
	Lower (std UC) – f. stabilizer & r. dozer up										5050	4850	3850	3700	3550	2800	
	Lower (std UC) – f. stabilizer & r. dozer down										*7250	*7250	5600	*4950	*4950	4150	
	Lower (std UC) – f. dozer & r. stabilizer up										5200	4700	3850	3850	3450	2800	
	Lower (std UC) – f. dozer & r. stabilizer down										*7250	*7250	5700	*4950	*4950	4250	
	Lower (std UC) – 2 sets stabilizers up										5200	4800	3900	3800	3550	2800	
	Lower (std UC) – 2 sets stabilizers down										*7250	*7250	6700	*4950	*4950	*4950	
9000 mm	MH – stabilizers up – solid tires										5200	5200	4050	3050	3050	2300	10 180
	MH – stabilizers down – solid tires										*7450	*7450	*7450	*4550	*4550	*4550	
	Lower (std UC) – f. stabilizer & r. dozer up										5150	4900	3900	3000	2850	2200	
	Lower (std UC) – f. stabilizer & r. dozer down										*7450	*7450	5650	*4550	*4550	3300	
	Lower (std UC) – f. dozer & r. stabilizer up										5300	4750	3900	3100	2750	2200	
	Lower (std UC) – f. dozer & r. stabilizer down										*7450	*7450	5800	*4550	*4550	3400	
	Lower (std UC) – 2 sets stabilizers up										5250	4900	3950	3050	2850	2250	
	Lower (std UC) – 2 sets stabilizers down										*7450	*7450	6750	*4550	*4550	4000	
7500 mm	MH – stabilizers up – solid tires										5200	5200	4050	2650	2650	1950	11 110
	MH – stabilizers down – solid tires										*7500	*7500	*7500	*4350	*4350	4050	
	Lower (std UC) – f. stabilizer & r. dozer up										5100	4850	3900	2550	2450	1850	
	Lower (std UC) – f. stabilizer & r. dozer down										*7500	*7500	5650	*4350	*4350	2850	
	Lower (std UC) – f. dozer & r. stabilizer up										5250	4750	3900	2650	2350	1850	
	Lower (std UC) – f. dozer & r. stabilizer down										*7500	*7500	5750	*4350	4100	2950	
	Lower (std UC) – 2 sets stabilizers up										5250	4850	3900	2650	2450	1900	
	Lower (std UC) – 2 sets stabilizers down										*7500	*7500	6750	*4350	4200	3450	
6000 mm	MH – stabilizers up – solid tires										5100	5100	3950	2350	2350	1750	11 760
	MH – stabilizers down – solid tires										*7700	*7700	*7700	*4300	*4300	3700	
	Lower (std UC) – f. stabilizer & r. dozer up										5000	4750	3800	2300	2200	1650	
	Lower (std UC) – f. stabilizer & r. dozer down										*7700	*7700	5550	4250	4200	2600	
	Lower (std UC) – f. dozer & r. stabilizer up										5150	4600	3800	2400	2100	1650	
	Lower (std UC) – f. dozer & r. stabilizer down										*7700	*7700	5650	*4300	3700	2650	
	Lower (std UC) – 2 sets stabilizers up										5150	4750	3800	2350	2200	1700	
	Lower (std UC) – 2 sets stabilizers down										*7700	*7700	6600	*4300	3800	3100	
4500 mm	MH – stabilizers up – solid tires							6950	6950	5350	4900	4900	3750	2200	2200	1600	12 200
	MH – stabilizers down – solid tires							*9500	*9500	*9500	*8000	*8000	7550	4200	4200	3450	
	Lower (std UC) – f. stabilizer & r. dozer up							6900	6500	5150	4800	4600	3600	2150	2050	1500	
	Lower (std UC) – f. stabilizer & r. dozer down							*9500	*9500	7600	*8000	*8000	5350	4000	3950	2400	
	Lower (std UC) – f. dozer & r. stabilizer up							7100	6350	5150	4950	4450	3600	2200	1950	1500	
	Lower (std UC) – f. dozer & r. stabilizer down							*9500	*9500	7800	*8000	7650	5450	*4300	3450	2450	
	Lower (std UC) – 2 sets stabilizers up							7050	6500	5200	4950	4550	3650	2200	2000	1550	
	Lower (std UC) – 2 sets stabilizers down							*9500	*9500	9250	*8000	7850	6400	4100	3550	2900	
3000 mm	MH – stabilizers up – solid tires				10 250	10 250	7600	6550	6550	4950	4700	4700	3550	2100	2100	1500	12 430
	MH – stabilizers down – solid tires				*13 350	*13 350	*13 350	*10 250	*10 250	*10 250	*8350	*8350	7300	4050	4050	3300	
	Lower (std UC) – f. stabilizer & r. dozer up				10 200	9500	7350	6450	6100	4750	4600	4350	3400	2050	1950	1450	
	Lower (std UC) – f. stabilizer & r. dozer down				*13 350	*13 350	11 400	*10 250	*10 250	7200	*8350	*8350	5100	3850	3800	2300	
	Lower (std UC) – f. dozer & r. stabilizer up				10 500	9250	7350	6650	5900	4750	4750	4200	3400	2100	1850	1450	
	Lower (std UC) – f. dozer & r. stabilizer down				*13 350	*13 350	11 800	*10 250	*10 250	7400	*8350	7400	5250	4250	3350	2350	
	Lower (std UC) – 2 sets stabilizers up				10 450	9450	7400	6650	6100	4800	4700	4350	3450	2100	1900	1450	
	Lower (std UC) – 2 sets stabilizers down				*13 350	*13 350	*13 350	*10 250	*10 250	8750	*8350	7600	6150	3950	3450	2800	
1500 mm	MH – stabilizers up – solid tires				9300	9300	6750	6100	6100	4550	4450	4450	3300	2050	2050	1500	12 480
	MH – stabilizers down – solid tires				*14 600	*14 600	*14 600	*10 750	*10 750	9900	*8500	*8500	7000	4000	4000	3250	
	Lower (std UC) – f. stabilizer & r. dozer up				9250	8600	6500	6000	5650	4350	4350	4100	3150	2000	1900	1400	
	Lower (std UC) – f. stabilizer & r. dozer down				*14 600	*14 600	10 400	*10 750	*10 750	6750	8300	8100	4850	3800	3750	2250	
	Lower (std UC) – f. dozer & r. stabilizer up				9550	8300	6500	6200	5450	4350	4500	3950	3150	2050	1800	1400	
	Lower (std UC) – f. dozer & r. stabilizer down				*14 600	*14 600	10 800	*10 750	10 150	6900	*8500	7100	4950	*4000	3300	2300	
	Lower (std UC) – 2 sets stabilizers up				9500	8550	6550	6150	5650	4400	4450	4100	3200	2050	1900	1400	
	Lower (std UC) – 2 sets stabilizers down				*14 600	*14 600	13 200	*10 750	10 400	8250	8500	7300	5900	3900	3400	2750	
0 mm	MH – stabilizers up – solid tires	*4050	*4050	*4050	8600	8600	6100	5700	5700	4150	4200	4200	3100				
	MH – stabilizers down – solid tires	*4050	*4050	*4050	*14 600	*14 600	*14 600	*10 750	*10 750	9450	*8400	*8400	6750				
	Lower (std UC) – f. stabilizer & r. dozer up	*4050	*4050	*4050	8500	7850	5800	5600	5300	3950	4100	3900	2950				
	Lower (std UC) – f. stabilizer & r. dozer down	*4050	*4050	*4050	*14 600	*14 600	9650	*10 750	*10 750	6350	8050	7850	4600				
	Lower (std UC) – f. dozer & r. stabilizer up	*4050	*4050	*4050	8800	7600	5800	5800	5100	3950	4250	3750	2950				
	Lower (std UC) – f. dozer & r. stabilizer down	*4050	*4050	*4050	*14 600	*14 600	10 000	*10 750	9650	6500	*8400	6850	4750				
	Lower (std UC) – 2 sets stabilizers up	*4050	*4050	*4050	8750	7850	5900	5800	5250	4000	4200	3850	2950				
	Lower (std UC) – 2 sets stabilizers down	*4050	*4050	*4050	*14 600	*14 600	12 350	*10 750	9950	7850	8250	7050	5650				

*Limited by hydraulic rather than tipping load.

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The load point is the center line of the bucket pivot mounting pin on the stick. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface. For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

Lift Capacities

All values are in lb, hydraulic cab riser, work tool: none, with counterweight (11,470 lb), heavy lift on.

Load point height | Load over front | Load over rear | Load over side | Load at maximum reach (sticknose/bucket pin)

Undercarriage
MH or Standard

Boom
22'4" MH

Stick
19'4" MH

	Undercarriage configuration	10 ft			15 ft			20 ft			25 ft						ft
40 ft	MH – stabilizers up – solid tires							15,300	15,300	11,800				12,700	12,700	9,800	22.31
	MH – stabilizers down – solid tires							*15,600	*15,600	*15,600				*12,900	*12,900	*12,900	
	Lower (std UC) – f. stabilizer & r. dozer up							15,200	14,300	11,400				12,600	11,900	9,400	
	Lower (std UC) – f. stabilizer & r. dozer down							*15,600	*15,600	*15,600				*12,900	*12,900	*12,900	
	Lower (std UC) – f. dozer & r. stabilizer up							*15,600	13,900	11,400				*12,900	11,600	9,400	
	Lower (std UC) – f. dozer & r. stabilizer down							*15,600	*15,600	*15,600				*12,900	*12,900	*12,900	
	Lower (std UC) – 2 sets stabilizers up							15,500	14,300	11,500				*12,900	11,900	9,500	
	Lower (std UC) – 2 sets stabilizers down							*15,600	*15,600	*15,600				*12,900	*12,900	*12,900	
35 ft	MH – stabilizers up – solid tires										11,000	11,000	8,500	8,700	8,700	6,600	28.67
	MH – stabilizers down – solid tires										*15,300	*15,300	*15,300	*11,000	*11,000	*11,000	
	Lower (std UC) – f. stabilizer & r. dozer up										10,800	10,300	8,200	8,500	8,100	6,300	
	Lower (std UC) – f. stabilizer & r. dozer down										*15,300	*15,300	12,000	*11,000	*11,000	9,400	
	Lower (std UC) – f. dozer & r. stabilizer up										11,200	10,000	8,200	8,700	7,800	6,300	
	Lower (std UC) – f. dozer & r. stabilizer down										*15,300	*15,300	12,200	*11,000	*11,000	9,600	
	Lower (std UC) – 2 sets stabilizers up										11,100	10,300	8,300	8,700	8,000	6,400	
	Lower (std UC) – 2 sets stabilizers down										*15,300	*15,300	14,300	*11,000	*11,000	*11,000	
30 ft	MH – stabilizers up – solid tires										11,200	11,200	8,700	6,900	6,900	5,200	33.07
	MH – stabilizers down – solid tires										*16,300	*16,300	*16,300	*10,100	*10,100	*10,100	
	Lower (std UC) – f. stabilizer & r. dozer up										11,000	10,500	8,400	6,700	6,400	5,000	
	Lower (std UC) – f. stabilizer & r. dozer down										*16,300	*16,300	12,200	*10,100	*10,100	7,500	
	Lower (std UC) – f. dozer & r. stabilizer up										11,300	10,200	8,400	6,900	6,200	5,000	
	Lower (std UC) – f. dozer & r. stabilizer down										*16,300	*16,300	12,400	*10,100	*10,100	7,600	
	Lower (std UC) – 2 sets stabilizers up										11,300	10,500	8,500	6,900	6,400	5,000	
	Lower (std UC) – 2 sets stabilizers down										*16,300	*16,300	14,500	*10,100	*10,100	8,900	
25 ft	MH – stabilizers up – solid tires										11,200	11,200	8,700	5,900	5,900	4,400	36.22
	MH – stabilizers down – solid tires										*16,300	*16,300	*16,300	*9,700	*9,700	9,100	
	Lower (std UC) – f. stabilizer & r. dozer up										11,000	10,500	8,400	5,700	5,400	4,200	
	Lower (std UC) – f. stabilizer & r. dozer down										*16,300	*16,300	12,100	*9,700	*9,700	6,400	
	Lower (std UC) – f. dozer & r. stabilizer up										11,300	10,200	8,400	5,900	5,200	4,200	
	Lower (std UC) – f. dozer & r. stabilizer down										*16,300	*16,300	12,400	*9,700	9,100	6,500	
	Lower (std UC) – 2 sets stabilizers up										11,300	10,400	8,400	5,900	5,400	4,200	
	Lower (std UC) – 2 sets stabilizers down										*16,300	*16,300	14,500	*9,700	9,400	7,700	
20 ft	MH – stabilizers up – solid tires										11,000	11,000	8,500	5,200	5,200	3,900	38.48
	MH – stabilizers down – solid tires										*16,700	*16,700	16,700	*9,500	*9,500	8,200	
	Lower (std UC) – f. stabilizer & r. dozer up										10,800	10,300	8,100	5,100	4,900	3,700	
	Lower (std UC) – f. stabilizer & r. dozer down										*16,700	*16,700	11,900	9,400	9,300	5,700	
	Lower (std UC) – f. dozer & r. stabilizer up										11,100	10,000	8,100	5,300	4,700	3,700	
	Lower (std UC) – f. dozer & r. stabilizer down										*16,700	*16,700	12,200	*9,500	8,200	5,800	
	Lower (std UC) – 2 sets stabilizers up										11,000	10,200	8,200	5,200	4,800	3,700	
	Lower (std UC) – 2 sets stabilizers down										*16,700	*16,700	14,200	*9,500	8,500	6,900	
15 ft	MH – stabilizers up – solid tires							15,000	15,000	11,500	10,600	10,600	8,100	4,900	4,900	3,600	39.96
	MH – stabilizers down – solid tires							*20,700	*20,700	*20,700	*17,400	*17,400	16,200	9,300	9,300	7,600	
	Lower (std UC) – f. stabilizer & r. dozer up							14,800	14,000	11,100	10,400	9,900	7,800	4,700	4,500	3,400	
	Lower (std UC) – f. stabilizer & r. dozer down							*20,700	*20,700	16,400	*17,400	*17,400	11,500	8,800	8,700	5,300	
	Lower (std UC) – f. dozer & r. stabilizer up							15,300	13,600	11,100	10,700	9,600	7,800	4,900	4,300	3,400	
	Lower (std UC) – f. dozer & r. stabilizer down							*20,700	*20,700	16,900	*17,400	16,500	11,800	*9,500	7,700	5,400	
	Lower (std UC) – 2 sets stabilizers up							15,200	14,000	11,200	10,600	9,800	7,900	4,900	4,500	3,400	
	Lower (std UC) – 2 sets stabilizers down							*20,700	*20,700	19,900	*17,400	16,900	13,800	9,000	7,900	6,400	
10 ft	MH – stabilizers up – solid tires				22,100	22,100	16,500	14,100	14,100	10,700	10,100	10,100	7,600	4,600	4,600	3,400	40.78
	MH – stabilizers down – solid tires				*28,900	*28,900	*28,900	*22,200	*22,200	*22,200	*18,100	*18,100	15,700	9,000	9,000	7,300	
	Lower (std UC) – f. stabilizer & r. dozer up				22,000	20,500	15,800	13,900	13,200	10,300	9,900	9,400	7,300	4,500	4,300	3,200	
	Lower (std UC) – f. stabilizer & r. dozer down				*28,900	*28,900	24,600	*22,200	*22,200	15,500	*18,100	18,000	11,000	8,500	8,300	5,100	
	Lower (std UC) – f. dozer & r. stabilizer up				22,600	19,900	15,800	14,400	12,800	10,300	10,200	9,100	7,300	4,700	4,100	3,200	
	Lower (std UC) – f. dozer & r. stabilizer down				*28,900	*28,900	25,400	*22,200	*22,200	15,900	*18,100	15,900	11,300	9,400	7,400	5,200	
	Lower (std UC) – 2 sets stabilizers up				22,500	20,400	16,000	14,300	13,100	10,400	10,100	9,400	7,400	4,600	4,200	3,200	
	Lower (std UC) – 2 sets stabilizers down				*28,900	*28,900	*28,900	*22,200	*22,200	18,900	*18,100	16,300	13,300	8,700	7,600	6,200	
5 ft	MH – stabilizers up – solid tires				20,100	20,100	14,600	13,200	13,200	9,800	9,500	9,500	7,100	4,500	4,500	3,300	40.94
	MH – stabilizers down – solid tires				*31,700	*31,700	*31,700	*23,300	*23,300	21,300	*18,500	*18,500	15,100	8,800	8,800	7,200	
	Lower (std UC) – f. stabilizer & r. dozer up				19,900	18,500	14,000	13,000	12,200	9,400	9,300	8,900	6,800	4,400	4,200	3,100	
	Lower (std UC) – f. stabilizer & r. dozer down				*31,700	*31,700	22,400	*23,300	*23,300	14,500	17,800	17,400	10,400	8,300	8,200	5,000	
	Lower (std UC) – f. dozer & r. stabilizer up				20,600	17,900	14,000	13,400	11,800	9,400	9,700	8,600	6,800	4,600	4,000	3,100	
	Lower (std UC) – f. dozer & r. stabilizer down				*31,700	*31,700	23,200	*23,300	21,800	14,900	*18,500	15,300	10,700	*8,900	7,200	5,100	
	Lower (std UC) – 2 sets stabilizers up				20,400	18,400	14,100	13,300	12,200	9,500	9,600	8,800	6,900	4,500	4,100	3,100	
	Lower (std UC) – 2 sets stabilizers down				*31,700	*31,700	28,300	*23,300	22,300	17,800	18,300	15,700	12,700	8,600	7,500	6,000	
0 ft	MH – stabilizers up – solid tires	*9,200	*9,200	*9,200	18,500	18,500	13,200	12,300	12,300	9,000	9,100	9,100	6,700				
	MH – stabilizers down – solid tires	*9,200	*9,200	*9,200	*31,700	*31,700	*31,700	*23,300	*23,300	20,400	*18,200	*18,200	14,500				
	Lower (std UC) – f. stabilizer & r. dozer up	*9,200	*9,200	*9,200	18,300	17,000	12,500	12,100	11,400	8,600	8,900	8,400	6,300				
	Lower (std UC) – f. stabilizer & r. dozer down	*9,200	*9,200	*9,200	*31,700	*31,700	20,800	*23,300	*23,300	13,600	17,300	16,900	10,000				
	Lower (std UC) – f. dozer & r. stabilizer up	*9,200	*9,200	*9,200	18,900	16,400	12,500	12,500	11,000	8,600	9,200	8,100	6,300				
	Lower (std UC) – f. dozer & r. stabilizer down	*9,200	*9,200	*9,200	*31,700	*31,700	21,500	*23,300	20,800	14,000	*18,200	14,700	10,200				
	Lower (std UC) – 2 sets stabilizers up	*9,200	*9,200	*9,200	18,800	16,900	12,700	12,500	11,300	8,700	9,100	8,300	6,400				
	Lower (std UC) – 2 sets stabilizers down	*9,200	*9,200	*9,200	*31,700	*31,700	26,500	*23,300	21,400	16,900	17,700	15,200	12,200				

*Limited by hydraulic rather than tipping load.

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The load point is the center line of the bucket pivot mounting pin on the stick. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface. For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

MH3024 Wheel Material Handler Specifications

Lift Capacities

All values are in kg, hydraulic cab riser, work tool: none, with counterweight (5200 kg), heavy lift on.

 Load point height
 Load over front
 Load over rear
 Load over side
 Load at maximum reach (sticknose/bucket pin)

Undercarriage
MH or Standard

Boom
6.8 m MH

Stick
4.9 m MH

		4500 mm			6000 mm			7500 mm			9000 mm			10 500 mm						
	Undercarriage configuration																			**mm**
12 000 mm	MH – stabilizers up – solid tires																*7800	*7800	6550	5190
	MH – stabilizers down – solid tires																*7800	*7800	*7800	
	Lower (std UC) – f. stabilizer & r. dozer up																*7800	*7800	6300	
	Lower (std UC) – f. stabilizer & r. dozer down																*7800	*7800	*7800	
	Lower (std UC) – f. dozer & r. stabilizer up																*7800	*7800	6300	
	Lower (std UC) – f. dozer & r. stabilizer down																*7800	*7800	*7800	
	Lower (std UC) – 2 sets stabilizers up																*7800	*7800	6400	
	Lower (std UC) – 2 sets stabilizers down																*7800	*7800	*7800	
10 500 mm	MH – stabilizers up – solid tires				7150	7150	5500	4900	4900	3800							4900	4900	3750	7500
	MH – stabilizers down – solid tires				*9150	*9150	*9150	*6300	*6300	*6300							*6300	*6300	*6300	
	Lower (std UC) – f. stabilizer & r. dozer up				7050	6650	5300	4850	4600	3600							4850	4600	3600	
	Lower (std UC) – f. stabilizer & r. dozer down				*9150	*9150	7800	*6300	*6300	5350							*6300	*6300	5350	
	Lower (std UC) – f. dozer & r. stabilizer up				7250	6500	5300	4950	4450	3600							4950	4450	3600	
	Lower (std UC) – f. dozer & r. stabilizer down				*9150	*9150	8000	*6300	*6300	5450							*6300	*6300	5450	
	Lower (std UC) – 2 sets stabilizers up				7200	6650	5350	4950	4600	3650							4950	4600	3650	
	Lower (std UC) – 2 sets stabilizers down				*9150	*9150	*9150	*6300	*6300	*6300							*6300	*6300	*6300	
9000 mm	MH – stabilizers up – solid tires				7250	7250	5600	5050	5050	3900							3700	3700	2850	8980
	MH – stabilizers down – solid tires				*9250	*9250	*9250	*8050	*8050	7700							*5700	*5700	5650	
	Lower (std UC) – f. stabilizer & r. dozer up				7150	6750	5400	4950	4750	3750							3650	3450	2700	
	Lower (std UC) – f. stabilizer & r. dozer down				*9250	*9250	7900	*8050	*8050	5500							*5700	*5700	4050	
	Lower (std UC) – f. dozer & r. stabilizer up				7350	6600	5400	5100	4600	3750							3750	3350	2700	
	Lower (std UC) – f. dozer & r. stabilizer down				*9250	*9250	8100	*8050	7800	5600							*5700	*5700	4100	
	Lower (std UC) – 2 sets stabilizers up				7300	6750	5450	5100	4700	3800							3700	3450	2750	
	Lower (std UC) – 2 sets stabilizers down				*9250	*9250	*9250	*8050	8000	6550							*5700	*5700	4850	
7500 mm	MH – stabilizers up – solid tires				7200	7200	5550	5050	5050	3900	3750	3750	2850				3100	3100	2350	10 020
	MH – stabilizers down – solid tires				*9300	*9300	*9300	*8000	*8000	7700	6950	6950	5700				*5400	*5400	4750	
	Lower (std UC) – f. stabilizer & r. dozer up				7100	6700	5350	4950	4700	3750	3650	3500	2750				3000	2900	2250	
	Lower (std UC) – f. stabilizer & r. dozer down				*9300	*9300	7850	*8000	*8000	5500	6600	6500	4050				*5400	5400	3350	
	Lower (std UC) – f. dozer & r. stabilizer up				7300	6550	5350	5100	4600	3750	3800	3400	2750				3150	2800	2250	
	Lower (std UC) – f. dozer & r. stabilizer down				*9300	*9300	8050	*8000	7800	5600	*7000	5750	4150				*5400	4800	3450	
	Lower (std UC) – 2 sets stabilizers up				7250	6700	5400	5100	4700	3800	3750	3500	2750				3100	2850	2250	
	Lower (std UC) – 2 sets stabilizers down				*9300	*9300	*9300	*8000	8000	6550	6800	5900	4850				*5400	4950	4050	
6000 mm	MH – stabilizers up – solid tires				7000	7000	5400	4950	4950	3800	3700	3700	2850	2850	2850	2150	2750	2750	2050	10 740
	MH – stabilizers down – solid tires				*9700	*9700	*9700	*8200	*8200	7550	6900	6900	5650	5400	5400	4400	5200	5200	4250	
	Lower (std UC) – f. stabilizer & r. dozer up				6950	6550	5200	4850	4650	3650	3600	3450	2700	2800	2650	2050	2650	2550	1950	
	Lower (std UC) – f. stabilizer & r. dozer down				*9700	*9700	7650	*8200	*8200	5400	6550	6450	4000	5100	5000	3100	4900	4800	3000	
	Lower (std UC) – f. dozer & r. stabilizer up				7100	6350	5200	5000	4500	3650	3750	3350	2700	2900	2550	2050	2750	2450	1950	
	Lower (std UC) – f. dozer & r. stabilizer down				*9700	*9700	7850	*8200	7700	5500	*7050	5700	4100	5650	4450	3200	*5300	4250	3050	
	Lower (std UC) – 2 sets stabilizers up				7100	6550	5250	5000	4600	3700	3700	3450	2750	2850	2650	2050	2750	2550	2000	
	Lower (std UC) – 2 sets stabilizers down				*9700	*9700	9250	*8200	7900	6450	6750	5850	4800	5200	4550	3750	5000	4400	3600	
4500 mm	MH – stabilizers up – solid tires	10 550	10 550	7900	6700	6700	5100	4800	4800	3650	3600	3600	2750	2850	2850	2100	2550	2550	1900	11 220
	MH – stabilizers down – solid tires	*13 100	*13 100	*13 100	*10 250	*10 250	*10 250	*8400	*8400	7400	6800	6800	5550	5350	5350	4350	4800	4800	3950	
	Lower (std UC) – f. stabilizer & r. dozer up	10 500	9800	7600	6650	6250	4900	4700	4450	3500	3550	3350	2600	2750	2650	2000	2450	2350	1800	
	Lower (std UC) – f. stabilizer & r. dozer down	*13 100	*13 100	11 700	*10 250	*10 250	7350	*8400	*8400	5200	6450	6350	3950	5050	5000	3100	4550	4500	2750	
	Lower (std UC) – f. dozer & r. stabilizer up	10 800	9500	7600	6800	6100	4900	4850	4300	3500	3650	3250	2600	2850	2550	2000	2550	2250	1800	
	Lower (std UC) – f. dozer & r. stabilizer down	*13 100	*13 100	12 100	*10 250	*10 250	7550	*8400	7500	5350	*7100	5600	4000	5600	4400	3150	5050	3950	2800	
	Lower (std UC) – 2 sets stabilizers up	10 750	9750	7650	6800	6250	4950	4800	4450	3550	3650	3350	2650	2850	2600	2050	2550	2350	1800	
	Lower (std UC) – 2 sets stabilizers down	*13 100	*13 100	*13 100	*10 250	*10 250	8950	*8400	7700	6250	6650	5750	4750	5200	4550	3700	4650	4050	3350	
3000 mm	MH – stabilizers up – solid tires	9750	9750	7150	6350	6350	4750	4600	4600	3450	3500	3500	2650	2750	2750	2050	2400	2400	1800	11 470
	MH – stabilizers down – solid tires	*14 450	*14 450	*14 450	*10 800	*10 800	10 150	*8600	*8600	7150	6700	6700	5450	5300	5300	4300	4600	4600	3750	
	Lower (std UC) – f. stabilizer & r. dozer up	9650	9000	6850	6250	5900	4550	4500	4250	3300	3400	3250	2500	2700	2550	1950	2350	2250	1700	
	Lower (std UC) – f. stabilizer & r. dozer down	*14 450	*14 450	10 850	*10 800	*10 800	6950	8450	8250	5000	6350	6200	3800	5000	4900	3000	4350	4300	2650	
	Lower (std UC) – f. dozer & r. stabilizer up	9950	8700	6850	6450	5700	4550	4650	4100	3300	3550	3150	2500	2800	2500	1950	2450	2150	1700	
	Lower (std UC) – f. dozer & r. stabilizer down	*14 450	*14 450	11 200	*10 800	10 400	7150	*8600	7250	5100	7050	5500	3900	5550	4350	3100	4850	3800	2700	
	Lower (std UC) – 2 sets stabilizers up	9900	8950	6950	6400	5850	4600	4600	4250	3350	3500	3250	2550	2800	2550	2000	2400	2200	1700	
	Lower (std UC) – 2 sets stabilizers down	*14 450	*14 450	13 650	*10 800	10 650	8500	*8600	7450	6050	6500	5650	4600	5100	4450	3650	4450	3900	3200	
1500 mm	MH – stabilizers up – solid tires	8950	8950	6450	5950	5950	4400	4350	4350	3250	3400	3400	2500	2700	2700	2000	2350	2350	1750	11 520
	MH – stabilizers down – solid tires	*14 950	*14 950	*14 950	*10 950	*10 950	9750	*8600	*8600	6950	6550	6550	5300	5200	5200	4250	*4400	*4400	3700	
	Lower (std UC) – f. stabilizer & r. dozer up	8850	8250	6150	5850	5500	4200	4300	4050	3100	3300	3150	2400	2650	2500	1900	2300	2200	1650	
	Lower (std UC) – f. stabilizer & r. dozer down	*14 950	*14 950	10 000	*10 950	*10 950	6550	8200	8000	4800	6200	6100	3700	4900	4850	2950	4300	4250	2600	
	Lower (std UC) – f. dozer & r. stabilizer up	9150	7950	6150	6050	5350	4200	4400	3900	3100	3400	3050	2400	2750	2400	1900	2400	2100	1650	
	Lower (std UC) – f. dozer & r. stabilizer down	*14 950	*14 950	10 350	*10 950	9950	6750	*8600	7050	4900	6900	5350	3800	5500	4250	3050	*4400	3750	2650	
	Lower (std UC) – 2 sets stabilizers up	9100	8200	6200	6000	5500	4250	4400	4050	3150	3400	3100	2450	2700	2500	1950	2350	2200	1650	
	Lower (std UC) – 2 sets stabilizers down	*14 950	*14 950	12 750	*10 950	10 200	8100	8400	7200	5850	6350	5500	4500	5050	4400	3600	*4400	3850	3150	
0 mm	MH – stabilizers up – solid tires	8450	8450	6000	5650	5650	4150	4200	4200	3100	3300	3300	2400	2650	2650	1950				
	MH – stabilizers down – solid tires	*10 200	*10 200	*10 200	*10 450	*10 450	9400	*8150	*8150	6750	6450	6450	5200	*4950	*4950	4200				
	Lower (std UC) – f. stabilizer & r. dozer up	8350	7750	5700	5550	5250	3950	4100	3900	2950	3200	3050	2300	2600	2450	1850				
	Lower (std UC) – f. stabilizer & r. dozer down	*10 200	*10 200	9500	*10 450	*10 450	6250	8000	7800	4600	6100	5950	3600	4850	4800	2900				
	Lower (std UC) – f. dozer & r. stabilizer up	8650	7450	5700	5750	5050	3950	4250	3750	2950	3300	2950	2300	2700	2350	1850				
	Lower (std UC) – f. dozer & r. stabilizer down	*10 200	*10 200	9850	*10 450	9600	6450	*8150	6850	4750	*6450	5250	3700	*4950	4200	2950				
	Lower (std UC) – 2 sets stabilizers up	8600	7700	5750	5750	5200	4000	4200	3850	3000	3300	3000	2350	2650	2450	1900				
	Lower (std UC) – 2 sets stabilizers down	*10 200	*10 200	*10 200	*10 450	9850	7800	*8150	7050	5650	6250	5400	4350	*4950	4350	3550				

*Limited by hydraulic rather than tipping load.

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The load point is the center line of the bucket pivot mounting pin on the stick. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface. For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

Lift Capacities

All values are in lb, hydraulic cab riser, work tool: none, with counterweight (11,470 lb), heavy lift on.

Load point height | Load over front | Load over rear | Load over side | Load at maximum reach (sticknose/bucket pin)

Undercarriage
MH or Standard

Boom
22'4" MH

Stick
16'1" MH

	Undercarriage configuration	15 ft			20 ft			25 ft			30 ft			35 ft						ft
40 ft	MH – stabilizers up – solid tires	*19,000	*19,000	17,500													*18,000	*18,000	16,400	15.65
	MH – stabilizers down – solid tires	*19,000	*19,000	*19,000													*18,000	*18,000	*18,000	
	Lower (std UC) – f. stabilizer & r. dozer up	*19,000	*19,000	16,900													*18,000	*18,000	15,800	
	Lower (std UC) – f. stabilizer & r. dozer down	*19,000	*19,000	*19,000													*18,000	*18,000	*18,000	
	Lower (std UC) – f. dozer & r. stabilizer up	*19,000	*19,000	16,900													*18,000	*18,000	15,800	
	Lower (std UC) – f. dozer & r. stabilizer down	*19,000	*19,000	*19,000													*18,000	*18,000	*18,000	
	Lower (std UC) – 2 sets stabilizers up	*19,000	*19,000	17,100													*18,000	*18,000	15,900	
	Lower (std UC) – 2 sets stabilizers down	*19,000	*19,000	*19,000													*18,000	*18,000	*18,000	
35 ft	MH – stabilizers up – solid tires				15,300	15,300	11,800										11,300	11,300	8,700	23.95
	MH – stabilizers down – solid tires				*19,500	*19,500	*19,500										*14,100	*14,100	*14,100	
	Lower (std UC) – f. stabilizer & r. dozer up				15,100	14,300	11,300										11,100	10,600	8,300	
	Lower (std UC) – f. stabilizer & r. dozer down				*19,500	*19,500	16,700										*14,100	*14,100	12,300	
	Lower (std UC) – f. dozer & r. stabilizer up				15,500	13,900	11,300										11,400	10,200	8,300	
	Lower (std UC) – f. dozer & r. stabilizer down				*19,500	*19,500	17,100										*14,100	*14,100	12,600	
	Lower (std UC) – 2 sets stabilizers up				15,400	14,200	11,400										11,400	10,500	8,400	
	Lower (std UC) – 2 sets stabilizers down				*19,500	*19,500	*19,500										*14,100	*14,100	*14,100	
30 ft	MH – stabilizers up – solid tires				15,500	15,500	12,000	10,800	10,800	8,400							8,400	8,400	6,400	29.07
	MH – stabilizers down – solid tires				*20,200	*20,200	*20,200	*17,600	*17,600	16,500							*12,700	*12,700	*12,700	
	Lower (std UC) – f. stabilizer & r. dozer up				15,300	14,500	11,600	10,600	10,100	8,000							8,200	7,800	6,100	
	Lower (std UC) – f. stabilizer & r. dozer down				*20,200	*20,200	16,900	*17,600	*17,600	11,800							*12,700	*12,700	9,100	
	Lower (std UC) – f. dozer & r. stabilizer up				15,800	14,100	11,600	11,000	9,800	8,000							8,400	7,500	6,100	
	Lower (std UC) – f. dozer & r. stabilizer down				*20,200	*20,200	17,400	*17,600	16,700	12,000							*12,700	*12,700	9,300	
	Lower (std UC) – 2 sets stabilizers up				15,700	14,500	11,700	10,900	10,100	8,100							8,400	7,800	6,200	
	Lower (std UC) – 2 sets stabilizers down				*20,200	*20,200	*20,200	*17,600	17,100	14,100							*12,700	*12,700	10,900	
25 ft	MH – stabilizers up – solid tires				15,500	15,500	11,900	10,900	10,900	8,400	8,000	8,000	6,100				6,900	6,900	5,200	32.64
	MH – stabilizers down – solid tires				*20,300	*20,300	*20,300	*17,500	*17,500	16,500	14,900	14,900	12,200				*12,000	*12,000	10,600	
	Lower (std UC) – f. stabilizer & r. dozer up				15,300	14,500	11,500	10,700	10,200	8,100	7,900	7,500	5,900				6,700	6,400	5,000	
	Lower (std UC) – f. stabilizer & r. dozer down				*20,300	*20,300	16,900	*17,500	*17,500	11,800	14,200	13,900	8,700				*12,000	*12,000	7,500	
	Lower (std UC) – f. dozer & r. stabilizer up				15,700	14,100	11,500	11,000	9,800	8,100	8,100	7,300	5,900				7,000	6,200	5,000	
	Lower (std UC) – f. dozer & r. stabilizer down				*20,300	*20,300	17,300	*17,500	16,700	12,100	*15,300	12,400	8,900				*12,000	10,700	7,700	
	Lower (std UC) – 2 sets stabilizers up				15,600	14,400	11,600	10,900	10,100	8,100	8,100	7,500	5,900				6,900	6,400	5,100	
	Lower (std UC) – 2 sets stabilizers down				*20,300	*20,300	20,300	*17,500	17,200	14,100	14,500	12,700	10,400				*12,000	11,000	9,000	
20 ft	MH – stabilizers up – solid tires				15,100	15,100	11,600	10,700	10,700	8,200	8,000	8,000	6,100	6,100	6,100	4,600	6,100	6,100	4,600	35.10
	MH – stabilizers down – solid tires				*21,000	*21,000	*21,000	*17,800	*17,800	16,300	14,900	14,900	12,200	11,500	11,500	9,500	11,500	11,500	9,400	
	Lower (std UC) – f. stabilizer & r. dozer up				14,900	14,100	11,200	10,500	10,000	7,900	7,800	7,400	5,800	6,000	5,700	4,400	5,900	5,700	4,300	
	Lower (std UC) – f. stabilizer & r. dozer down				*21,000	*21,000	16,500	*17,800	*17,800	11,600	14,100	13,900	8,700	10,900	10,800	6,700	10,900	10,700	6,600	
	Lower (std UC) – f. dozer & r. stabilizer up				15,300	13,700	11,200	10,800	9,700	7,900	8,000	7,200	5,800	6,200	5,500	4,400	6,100	5,500	4,300	
	Lower (std UC) – f. dozer & r. stabilizer down				*21,000	*21,000	16,900	*17,800	16,500	11,900	*15,300	12,300	8,900	*12,100	9,500	6,800	*11,700	9,500	6,800	
	Lower (std UC) – 2 sets stabilizers up				15,300	14,100	11,300	10,700	9,900	7,900	8,000	7,400	5,900	6,100	5,700	4,400	6,100	5,600	4,400	
	Lower (std UC) – 2 sets stabilizers down				*21,000	*21,000	19,900	*17,800	16,900	13,900	14,500	12,600	10,400	11,200	9,800	8,000	11,100	9,700	8,000	
15 ft	MH – stabilizers up – solid tires	22,700	22,700	17,000	14,500	14,500	11,000	10,300	10,300	7,900	7,800	7,800	5,900	6,100	6,100	4,600	5,600	5,600	4,200	36.75
	MH – stabilizers down – solid tires	*28,400	*28,400	*28,400	*22,200	*22,200	*22,200	*18,300	*18,300	15,900	14,700	14,700	12,000	11,500	11,500	9,400	10,600	10,600	8,700	
	Lower (std UC) – f. stabilizer & r. dozer up	22,600	21,100	16,400	14,300	13,500	10,600	10,100	9,600	7,500	7,600	7,300	5,600	5,900	5,700	4,300	5,400	5,200	4,000	
	Lower (std UC) – f. stabilizer & r. dozer down	*28,400	*28,400	25,200	*22,200	*22,200	15,900	*18,300	*18,300	11,200	13,900	13,700	8,500	10,900	10,700	6,600	10,000	9,900	6,100	
	Lower (std UC) – f. dozer & r. stabilizer up	23,200	20,500	16,400	14,700	13,100	10,600	10,400	9,300	7,500	7,900	7,000	5,600	6,100	5,400	4,300	5,600	5,000	4,000	
	Lower (std UC) – f. dozer & r. stabilizer down	*28,400	*28,400	26,000	*22,200	*22,200	16,300	*18,300	16,100	11,500	*15,400	12,100	8,700	12,100	9,500	6,800	11,200	8,800	6,200	
	Lower (std UC) – 2 sets stabilizers up	23,100	21,000	16,600	14,600	13,500	10,700	10,400	9,600	7,600	7,800	7,200	5,700	6,100	5,600	4,400	5,600	5,200	4,000	
	Lower (std UC) – 2 sets stabilizers down	*28,400	*28,400	*28,400	*22,200	*22,200	19,200	*18,300	16,600	13,500	14,300	12,400	10,200	11,200	9,700	8,000	10,300	9,000	7,400	
10 ft	MH – stabilizers up – solid tires	21,000	21,000	15,500	13,700	13,700	10,300	9,900	9,900	7,500	7,500	7,500	5,700	6,000	6,000	4,400	5,300	5,300	3,900	37.63
	MH – stabilizers down – solid tires	*31,300	*31,300	*31,300	*23,400	*23,400	21,900	*18,700	*18,700	15,400	14,400	14,400	11,700	11,400	11,400	9,300	10,200	10,200	8,300	
	Lower (std UC) – f. stabilizer & r. dozer up	20,900	19,400	14,800	13,500	12,700	9,900	9,700	9,200	7,100	7,400	7,000	5,400	5,800	5,500	4,200	5,200	4,900	3,700	
	Lower (std UC) – f. stabilizer & r. dozer down	*31,300	*31,300	23,400	*23,400	*23,400	15,000	18,200	17,800	10,800	13,600	13,400	8,200	10,700	10,600	6,500	9,600	9,500	5,800	
	Lower (std UC) – f. dozer & r. stabilizer up	21,500	18,800	14,800	13,900	12,300	9,900	10,000	8,900	7,100	7,600	6,800	5,400	6,000	5,300	4,200	5,400	4,700	3,700	
	Lower (std UC) – f. dozer & r. stabilizer down	*31,300	*31,300	24,200	*23,400	22,300	15,400	*18,700	15,600	11,000	15,200	11,800	8,400	12,000	9,300	6,700	10,700	8,400	5,900	
	Lower (std UC) – 2 sets stabilizers up	21,400	19,300	15,000	13,800	12,700	10,000	9,900	9,200	7,200	7,600	7,000	5,500	6,000	5,500	4,300	5,300	4,900	3,800	
	Lower (std UC) – 2 sets stabilizers down	*31,300	*31,300	29,300	*23,400	22,900	18,300	18,600	16,100	13,000	14,000	12,100	9,900	11,000	9,600	7,900	9,900	8,600	7,000	
5 ft	MH – stabilizers up – solid tires	19,300	19,300	13,900	12,900	12,900	9,500	9,400	9,400	7,000	7,300	7,300	5,400	5,800	5,800	4,300	5,200	5,200	3,800	37.83
	MH – stabilizers down – solid tires	*32,400	*32,400	*32,400	*23,800	*23,800	20,900	18,600	18,600	14,900	14,100	14,100	11,400	11,200	11,200	9,100	*9,700	*9,700	8,200	
	Lower (std UC) – f. stabilizer & r. dozer up	19,100	17,800	13,300	12,600	11,900	9,100	9,200	8,800	6,700	7,100	6,800	5,200	5,700	5,400	4,100	5,100	4,800	3,600	
	Lower (std UC) – f. stabilizer & r. dozer down	*32,400	*32,400	21,600	*23,800	*23,800	14,200	17,700	17,200	10,300	13,300	13,100	8,000	10,600	10,400	6,400	9,500	9,300	5,700	
	Lower (std UC) – f. dozer & r. stabilizer up	19,700	17,200	13,300	13,100	11,500	9,100	9,500	8,400	6,700	7,400	6,500	5,200	5,900	5,200	4,100	5,200	4,600	3,600	
	Lower (std UC) – f. dozer & r. stabilizer down	*32,400	*32,400	22,300	*23,800	21,400	14,600	*18,600	15,100	10,600	14,900	11,500	8,200	11,800	9,200	6,500	*9,700	8,200	5,800	
	Lower (std UC) – 2 sets stabilizers up	19,600	17,700	13,400	13,000	11,900	9,200	9,500	8,700	6,800	7,300	6,700	5,200	5,800	5,400	4,100	5,200	4,800	3,700	
	Lower (std UC) – 2 sets stabilizers down	*32,400	*32,400	27,400	*23,800	21,900	17,400	18,100	15,600	12,600	13,700	11,900	9,700	10,900	9,500	7,700	*9,700	8,500	6,900	
0 ft	MH – stabilizers up – solid tires	18,200	18,200	12,900	12,200	12,200	8,900	9,100	9,100	6,700	7,100	7,100	5,200	5,700	5,700	4,200				
	MH – stabilizers down – solid tires	*23,900	*23,900	*23,900	*22,700	*22,700	20,200	*17,700	*17,700	14,500	13,800	13,800	11,200	*10,500	*10,500	9,000				
	Lower (std UC) – f. stabilizer & r. dozer up	18,000	16,700	12,300	12,000	11,300	8,500	8,900	8,400	6,400	6,900	6,600	5,000	5,600	5,300	4,000				
	Lower (std UC) – f. stabilizer & r. dozer down	*23,900	*23,900	20,500	*22,700	*22,700	13,500	17,200	16,800	10,000	13,100	12,900	7,800	10,500	10,300	6,300				
	Lower (std UC) – f. dozer & r. stabilizer up	18,600	16,100	12,300	12,400	10,900	8,500	9,200	8,100	6,400	7,100	6,300	5,000	5,800	5,100	4,000				
	Lower (std UC) – f. dozer & r. stabilizer down	*23,900	*23,900	21,200	*22,700	20,600	13,900	*17,700	14,700	10,200	*13,900	11,300	7,900	*10,500	9,100	6,400				
	Lower (std UC) – 2 sets stabilizers up	18,500	16,600	12,500	12,300	11,200	8,600	9,100	8,300	6,400	7,100	6,500	5,000	5,700	5,300	4,000				
	Lower (std UC) – 2 sets stabilizers down	*23,900	*23,900	*23,900	*22,700	21,200	16,800	17,700	15,100	12,200	13,400	11,600	9,400	*10,500	9,400	7,600				

*Limited by hydraulic rather than tipping load.

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The load point is the center line of the bucket pivot mounting pin on the stick. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface. For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

MH3024 Standard Equipment

Standard Equipment

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

ELECTRICAL

- Alternator, 115A
- Heavy Duty maintenance free batteries
- Lights
  - Boom and stick LED working light
  - One LED light on the counterweight
  - Cab LED interior dome light
  - Roading lights two front
  - Roading lights two rear
  - Working LED lights, cab mounted (front and rear)
- Main shut-off switch
- Signal/warning horn

ENGINE

- Air filter
- Altitude capability: 3000 m (9,842 ft)
- Automatic engine speed control, including One Touch Low Idle
- Engine Idle Shutdown
- Automatic starting aid
- Cat C7.1 ACERT meeting Tier 4 Final emission standards
- Fuel filter
- Fuel/water separator with level indicator
- High ambient cooling
- Power mode selector (economy, power)

HYDRAULICS

- Adjustable hydraulic sensitivity
- Cat XT-6 ES hoses
- Control circuits (standard and optional, depending on boom/stick/linkage choice):
  - Medium pressure
    - Two-way, medium pressure circuit, for rotating or tilting of work tools
- Heavy lift mode
- Load-sensing hydraulic system
- Oil cooler
- Quick disconnect couplings
- Separate swing pump
- Stick regeneration circuit

OPERATOR STATION

- Additional color monitor for sideview camera
- Adjustable armrests
- Air conditioner, heater and defroster with automatic climate control
- Beverage cup/can holder
- Bolt-on top/front guards capability
- Bottle holder
- Bottom mounted, intermittent, parallel wiping system, covering upper and lower windshield glass
- Camera integrated into the counterweight displays through cab monitor
- CD/MP3 radio (12V) at rear location including speakers and 12V converter
- Coat hook
- Cruise control system
- Floor mat, washable, with storage compartment
- Fully adjustable suspension seat
- Hydraulic cab riser
- Instrument panel and gauges, full graphic and color display
  - Information and warning messages in local language
  - Gauges for fuel and DEF levels, engine coolant and hydraulic oil temperature
  - Filters/fluids change interval, working hours
  - Indicators for headlights, turning signal, low fuel and DEF, engine dial setting
  - Clock with 10-day backup battery
- Interior lighting with door switch
- Joysticks, pilot operated
- Laminated front windshield
- Left side console, tiltable, with lock out for all controls
- Lighter (24V)
- Literature holder in right console
- Mobile phone holder
- Parking brake
- Pin code type engine start prevention, integrated into the monitor
- Positive filtered ventilation, variable speed
- Power supply, 12V-10A
- Rear window, emergency exit
- Retractable seat belt, integrated into the seat
- Seat belt indicator and alarm
- Skylight
- Sliding door windows
- Steering column, adjustable angle and height
- Step, integrated into the skirt
- Storage area suitable for a lunch box
- Sunshade for windshield and skylight

UNDERCARRIAGE

- Automatic brake and axle lock
- Automatic swing and implement lock
- Creeper speed
- Four wheel drive
- Full hydraulic steering with emergency capability
- Heavy-duty axles, advanced travel motor, adjustable braking force and disc brake system
- Oscillating front axle, lockable, with remote greasing
- Steps, wide, left and right
- Tool boxes, left and right, in undercarriage
- Two-speed hydrostatic transmission

OTHER EQUIPMENT

- Auto-lube system (implements and swing gear)
- Automatic swing brake
- Capability to add auxiliary hydraulic circuit
- Cooling package, fine mesh screen and engine air precleaner
- Cat Electronic Technician capability (ET)
- Counterweight, 4100 kg (9,039 lb)
- Door locks and cap locks with Cat one-key security system
- Lowering check valves, BLCV including overload warning device and SLCV
- Mirrors, frame and cab
- Product Link
- Rear wide angle camera
- Side wide angle camera
- S·O·S℠ Quick Sampling valves for engine oil, hydraulic oil and coolant

Optional Equipment

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

AUXILIARY CONTROLS AND LINES

- Auxiliary boom and stick lines
- Control circuits (standard and optional, depending on boom/stick/linkage choice):
  - Tool control/multi function
    - One/two-way high pressure for hammer application or opening and closing of a work tool
    - Programmable flow and pressure for up to 10 work tools – selection via monitor
  - Quick coupler control
- Cat BIO HYDO Advanced HEES biodegradable hydraulic oil
- SmartBoom

BOOMS AND STICKS

- VA boom (5440 mm/17'10"):
  - Straight stick (2500 mm/8'2", 2900 mm/9'6")
- One-Piece boom (5650 mm/18'6"):
  - Straight stick (2500 mm/8'2", 2900 mm/9'6")
- Material Handling boom (6800 mm/22'4"):
  - Drop nose MH stick (4900 mm/16'1" or 5900 mm/19'4")
  - Straight MH stick (4800 mm/15'9")

ELECTRICAL

- Back-up alarm with three selectable modes
- Rotating beacon

OPERATOR STATION

- Top/front guards
- Joystick steering
- Pedal HPF/Hammer for auxiliary operation
- Seat, adjustable high-back
  - Vertical air suspension, horizontal suspension, automatic weight adjustment, lumbar support, passive climate system, seat cushion length/angle adjustment and heated seat (Comfort)
  - Vertical air suspension, horizontal suspension, automatic height and weight adjustment, active climate system, premium microfiber seat fabric, pneumatic lumbar support, seat cushion length and angle adjustment and adjustable dampening (Deluxe)
- Visor for rain protection
- Windshield
  - One-piece fixed
  - 70/30 split, openable

TIRES

- Dual pneumatic 11.00-20
- Dual solid rubber, 10.00-20
- Spacer rings for tires

UNDERCARRIAGE

- MH undercarriage with four welded outriggers
- MH undercarriage with four welded outriggers and front mounted blade
- Standard undercarriage, with outriggers (front and/or rear), dozer blade (rear)

OTHER EQUIPMENT

- Bucket linkages
- Cat Machine Security System
- Counterweight, 5200 kg (11,464 lb)
- Hydraulic quick coupler
- Maximum speed 20 km/h (12.5 mph) or 25 km/h (15.5 mph)*
- Mirrors heated, frame and cab
- Refueling pump with dedicated tray for the hose

*25 km/h (15.5 mph) not compatible with solid tires

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at **www.cat.com**

AEHQ7509 (06-2015)
(NACD)