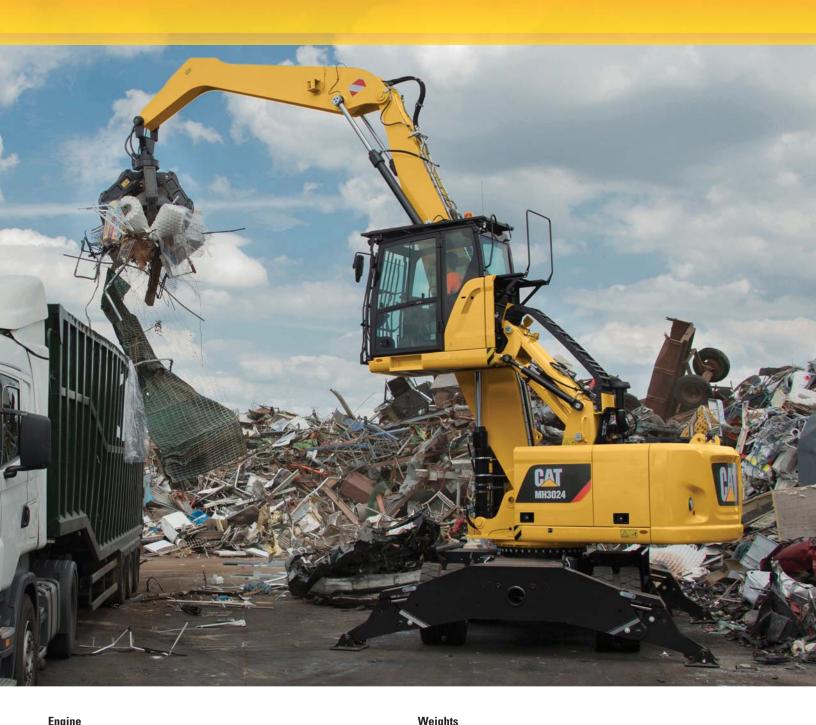
MH3024

CAT®

Wheel Material Handler 2018



Engine		
Engine Model	Cat® C7.1 A	CERT™
Emissions	EU Stage IV	1
Power (Maximum)		
ISO 9249 at 1,700 rpm	126 kW	169 hp
ISO 9249 at 1,700 rpm (metric)		171 hp (PS)
ISO 14396 at 1,700 rpm (gross)	129.4 kW	174 hp
ISO 14396 at 1,700 rpm (gross) (metric)		176 hp (PS)

weights	
Operating Weight with Work Tool	21 385 kg-24 980 kg
Working Ranges (MH boom, stick 4900 mm)	
Maximum Reach (stick pin)	11 005 mm
Maximum Height (stick pin)	12 065 mm
Drive	
Maximum Travel Speed	25 km/h

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.

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Our wheel material handlers are here to help you take on the wide variety of challenges you face every day, more easily and at a lower cost.

Commitment from the Ground Up.



Fuel Efficiency and Reduced Exhaust Emissions

The engine meets Stage IV emission standards, is powerful and efficient, with an optimized 10% fuel consumption improvement versus the previous series and no impact on your productivity. This means less resource consumption and fewer CO_2 emissions.

Transparent Technologies and Longer Service Intervals

- The Eco Mode, 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-lowsulfur diesel (ULSD) fuel with 10 ppm of sulfur or less or up to B20 biodiesel fuel blended with ULSD.
- Cat BIO HYDO™ Advanced HEES™ reduces the impact on the environment.

Cat Certified Used

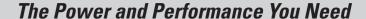
This program is a key element in the range of solutions offered by Caterpillar and Cat dealers to help customers achieve growth at the lowest cost while eliminating waste. Used equipment is inspected, guaranteed and ready for work and customers will benefit from a Caterpillar warranty.

NEW! Blue Angel Certification

This environmental award – supported by the German Federal Environmental Agency and the Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety – recognizes products that protect both people and the environment by reducing noise and emissions.

Engine

Power, Reliability, and Fuel Economy



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 Stage IV 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
- 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.





Built-in Fuel Savers That Add Up

- Automatic Engine Speed Control: lowers engine speed when it is not needed.
- Engine Idle Shutdown: turns the engine off when it's been idling for more than a pre-set amount of time.
- On-Demand Cooling System: variable speed and on-demand fan.
- Enhanced Eco Mode: reduces engine speed while delivering the same power.
- Automatic Shift to Travel Mode when you start driving.
- Optimized Travel Mode: travel mode rpm levels are set automatically on-demand only to further reduce fuel consumption.



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 hydraulic valve compartment and routings offer a simple and clean design to help ensure durability.
- 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 of straight sticks with linkage.









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 cooling package offers unprecedented up-times even in difficult environments.

Structure – Elevated Cab and Frame

Strength, Flexibility and Mobility







High Visibility – 2400 mm Elevated Cab

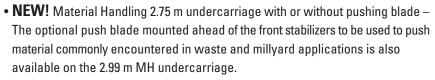
The hydraulic cab riser is designed to be:

- 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: 2.75 m standard undercarriage.

for your applications: 2.75 m standard undercarriage, 2.75 m MH undercarriage and 2.99 m MH undercarriage.





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

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 with improved smoothness.

Travel mode rpm levels are set automatically and "on-demand only" to further reduce fuel consumption.











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

No Compromise on Durability

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 Booms

MH boom includes high pressure hydraulic lines for opening and closing functionality and medium pressure lines for implement rotation.

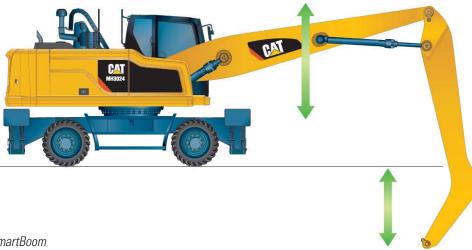
MH Sticks

MH sticks are equipped with high and medium pressure auxiliary lines. The 4900 mm Drop Nose Stick offers the reaching and lifting capabilities required for typical MH applications, while the 4200 mm Straight Stick is the best solution when additional work tool functionality is needed.

Special Applications

Our material handlers offer 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.

Digging sticks are available in combination with a variable adjustable (VA) or one-piece boom.



Smart Features

Easier than Ever

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.
- The swing lock can be applied independently from the implements lock at low speed (below 5 km/h)

Integrated Pin Code

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

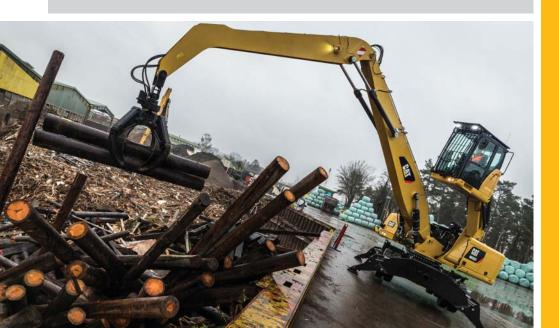
- The pin code is integrated into the monitor (standard)
- Entering the right code allows the engine to start

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

Cruise Control

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



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. Several areas provide sufficient room to store a hard hat, a drink, phone, or keys.

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 ventilated seats are available.

Safety Is Not Optional

TOPS 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.









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 and left pedal controls assignments: can be set up as desired and per tool
- Optional advanced joystick offering more controls (two sliders, five buttons each)
- Automatic air conditioning
- Optional heated mirrors are now also electrically adjustable from the cab

Incredibly Low Sound Levels, Less Fatigue

Increased cab pressure, preventing from dust entry, combined with the cab design contributes to reducing sound.



- · All glass areas have been drastically increased
- Standard LED working lights and halogen front roading lights
- Standard LED dome light
- Standard rearview AND sideview wide angle cameras
- Wide angle mirrors for a better visibility even down to the ground
- Parallel intermittent (four speeds) wipers covering the whole windshield



Standard LED Lights for BOTH Cameras to See What's Going on Around, Day or Night

The rear camera is integrated into the counterweight for enhanced protection.

Split-Screen View of BOTH Cameras on the Same Monitor

The views from both cameras are displayed side by side on the additional wide color monitor for better visibility at first glance.

Large Color Machine 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.

A Smart Design for Any Temperature

The side-by-side coolers 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.

- The optional Cooling Protection Package includes a fine mesh for enhanced radiator protection and an engine air pre-cleaner.
- The optional Waste Handling Package adds a reversing fan rotation function with adjustable intervals and a vibrating grill on the cooling hood.
 This vibration together with the reversed airflow direction will shake accumulated particles off the mesh.

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 lubrication system is a time-saving standard feature for greasing the whole uppercarriage. Greasing points for the undercarriage are kept to a minimum and grouped. The drive shaft extends greasing intervals from 500 hours to 1,000 hours and allows simultaneous greasing with the lower axle bearing. 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 maintenance work for you.

Keep it simple.









Integrated Technologies

It Pays to Know

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.



Equipment Management – increase uptime and reduce operating costs.



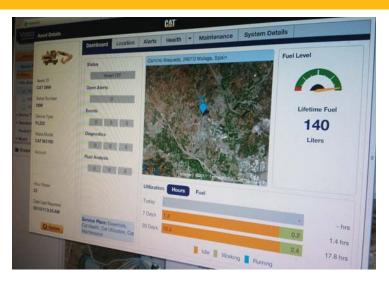
Productivity – monitor production and manage job site efficiency.



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

Link

Link technologies provide wireless capability to machines to enable two-way transfer of information.

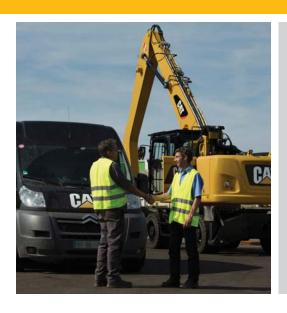


Manage Your Machine Remotely

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.

Complete Customer Care

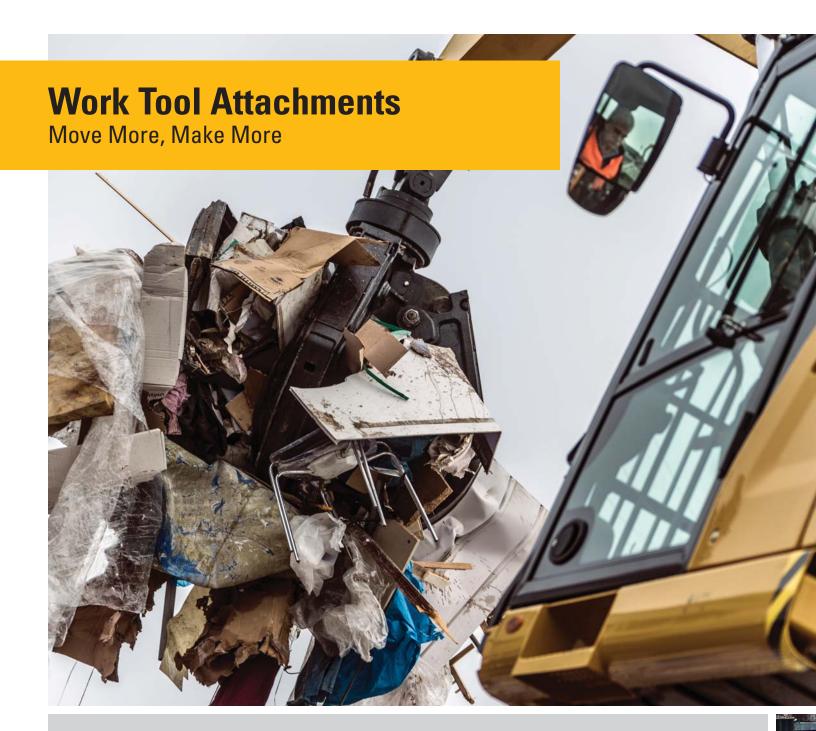
Your Cat Dealer Will Support You Like No Other



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.



Optional 15 kW Cat Generator with Solid State Controller

If your work tool or application needs additional power for operation, the MH3024 can come equipped with an optional 15 kW solid state generator. Experience enhanced sorting ability through the proprietary solid state generator control. The genset is capable of producing enough power to operate up to a 1.4 m diameter magnet. The optional solid state genset would be placed in the upper frame for ease of maintenance without obstructing other machine components.

The operator friendly material sorting control enables the machine operator to turn the magnet current on and off at quick intervals without initiating the actual "drop" or "reverse current" cycle of the magnet which completely and quickly cleans the material off of the magnet during normal production handling.

This proprietary generator system is designed, sold and serviced by Caterpillar and Cat dealers worldwide.



Attachment Solutions for Industrial and Recycling Applications

When productivity, reliability and stability are important, Cat attachments are the perfect solution.

Productive and Perfectly Matched

Loading and unloading is foundational to your productivity. Grapples 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. 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 to 1000 L. Several shell choices allow further customization of your grapple to the specific material you work with.

NEW! Grapples can further reduce fuel consumption. They feature reduced weight and improved cycle times. Castings in place of welded structures in high stress areas increase the durability of your equipment.

Clamshell Grapples

The perfect solution for loading and transferring large volumes of loose material like grain, coal, sand and gravel.

These grapples are configured with several shells for different capacity options to meet your specific requirements.

Digging Grapples

Cat Digging grapples are designed to suit MH machines for digging applications where good penetration is required.

Waste Handling Grapples

The dedicated waste handling grapple has been specifically designed to offer high volume for maximum loads and proven fuel consumption.







Get the Most from Your Machine

You can easily expand all the possibilities the MH3024 offers by utilizing a straight stick linkage and combining it with any of the variety of Cat attachments for excavators. In this case, a quick coupler will bring the ability to quickly change attachments.

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.

Safety

Your Safety Is NOT Optional

Embedded Features

Smart embedded devices 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
- Secondary shut off switch and battery disconnect switch
- Travel alarm
- Lowering check valves
- Quick coupler control switch, ISO 13031 compliant



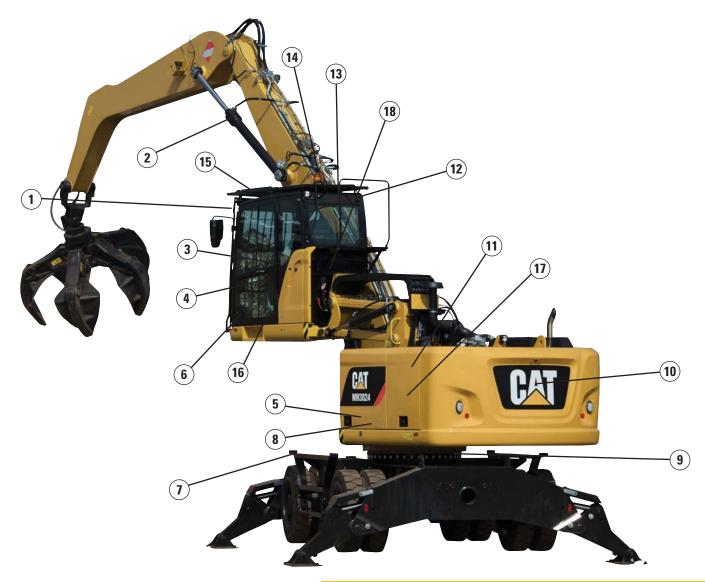




Cab Ingress

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

- Three long access steps, aligned with the cab entry
- Additional step integrated into the skirt, directly below the cab door
- Anti-skid plates on all walkways and steps reducing slipping hazards
- Tiltable console to make sure the way in and out is free of obstacles
- NEW! Direct access to the cab when it is not aligned with the chassis through optional steps on the front and rear of the undercarriage.



- 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 disconnect switch
- 9) Swing and implement electronic lock
- 10) Adjustable travel alarm
- 11) All doors equipped with gas strut cylinders
- 12) Emergency hammer and exit
- 13) Sound proofing
- 14) Beacon available
- 15) TOPS cab and top/front guards compatibility
- 16) Safety lever to lower the cab, either from the ground or directly from the cab
- 17) Foldable service platform
- 18) Advanced Cab Filtration System (optional)

Safety Options for Specific Applications

- Impact Resistant One-Piece Windshield and skylight, 10 mm thick, fulfills EN356 P5A standards.
- High Impact Resistant fixed Windshield (two-parts) and skylight, 26 mm thick, fulfills EN356 P8B standards.
- Advanced Cab Filtration System A cab filtration package reduces dust entry and air contamination. It includes:
 - an integrated air pre-cleaner, which also extends filters life
- a fresh air filtration system with H13 and ABEK1 Hg filters against odor and gas
- a recirculation filtration system, with a H13 filter

Engine		
Engine Model	Cat C7.1 A	CERT ⁽¹⁾
Ratings	1,550 rpm	
Engine Gross Power (Maximum)		
ISO 14396	129.4 kW	174 hp
ISO 14396 (metric)		176 hp (PS)
Net Power (Rated) (2)		
ISO 9249/SAE J1349	126 kW	169 hp
ISO 9249/SAE J1349 (metric)		171 hp (PS)
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 (PS)
80/1269/EEC	126 kW	
Bore	105 mm	
Stroke	135 mm	
Displacement	7.01 L	
Maximum Torque at 1,400 rpm	830 N·m	
Number of Cylinders	6	

⁽¹⁾ Meets Stage IV emission standards.

No derating required up to 3000 m altitude. Automatic derating occurs after 3000 m.

10.0 km/h
25.0 km/h
3.0 km/h
10.0 km/h
125 kN
65%
8.1 rpm
54 kN·m
325 mm
35.0°
±5.0°
6800 mm
7600 mm
9000 mm
8800 mm

^{*}Dimension for standard and MH undercarriage. For machines fitted with 11.00-20 pneumatic tires, add 35 mm.

(with 4.9 m drop nose stick)

Service Refill Capacities	
Fuel Tank (total capacity)	330 L
Diesel Exhaust Fluid Tank	34.5 L
Cooling System	46.9 L
Engine Crankcase	18.5 L
Rear Axle Housing (differential)	14 L
Front Steering Axle (differential)	10.5 L
Final Drive	2.5 L
Powershift Transmission	2.5 L

⁽²⁾ Rated speed 1,550 rpm. Constant power from 1,500-1,550 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.

Weights	
Operating Weights*	22 275 kg-23 665 kg
MH Boom (6.4 m)	
MH Undercarriage 2.75 m, Straight (4200 mm) Stick	23 565 kg
MH Undercarriage 2.75 m, Drop Nose (4900 mm) Stick	23 160 kg
MH Undercarriage 2.99 m, Straight (4200 mm) Stick	23 665 kg
MH Undercarriage 2.99 m, Drop Nose (4900 mm) Stick	23 260 kg
Standard Undercarriage, Straight (4200 mm) Stick**	23 390 kg
One-Piece Boom	
Standard Undercarriage**, Industrial Stick (3300 mm)	22 275 kg
VA Boom	
Standard Undercarriage**, Digging Long Stick (2800 mm)	23 130 kg
Sticks***	
Digging Medium (2500 mm)**	850 kg
Digging Long (2800 mm)**	895 kg
Industrial (3300 mm)	515 kg
Straight (4200 mm)**	1275 kg
Drop Nose (4900 mm)	885 kg
MH Push Blade (2.75 m)	705 kg
MH Push Blade (2.99 m)	745 kg
Dozer Blade	850 kg
Solid Tires (delta vs. standard tires)	950 kg
Counterweight	4200 kg

*Operating weight includes solid tires, 4200 kg counterweight,
full fuel tank, operator, four outriggers undercarriage,
attachment (1400 kg). Weight varies depending on configuration.

^{**}Standard undercarriage with blade and one set of outriggers and dual pneumatic solid tires.

Hydraulic System	
Tank Capacity	153 L
System	345 L
Hydraulic System: M	aximum Pressure
Implement Circuit	

nyuraunc System: Maximum Pressure		
Implement Circuit		
Normal	350 bar	
Heavy Lift	370 bar	
Travel Circuit	350 bar	
Auxiliary Circuit		
High Pressure	350 bar	
Medium Pressure	210 bar	
Swing Mechanism	310 bar	

Hydraulic System: Maximum Flow		
Implement/Travel Circuit	290 L/min	
Auxiliary Circuit		
High Pressure	250 L/min	
Medium Pressure	49 L/min	
Swing Mechanism	108 L/min	

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

Push Blade	
Blade Type	Radial
Blade Height	920 mm
Width	2750 mm, 2990 mm

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

Emissions and Safety	
Engine Emissions	Stage IV
Diesel Exhaust Fluid	Must meet ISO 22241
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
Vibration Levels	
Maximum Hand/Arm	
ISO 5349:2001	<2.5 m/s ²
Maximum Whole Body	
ISO/TR 25398:2006	<0.5 m/s ²
Seat Transmissibility Factor	
ISO 7096:2000-spectral class EM5	<0.7

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.15 kg of refrigerant which has a CO_2 equivalent of 1.645 metric tonnes.

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		
ISO 6396:2008	71 dB(A)	
Spectator Sound		
ISO 6395:2008	99 dB(A)*	

- *Noise level is for a machine without the generator.
- Operator Sound The operator sound level is measured according to the procedures specified in ISO 6396:2008, 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 as amended by 2005/88/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).

Dimensions – With Standard Undercarriage*

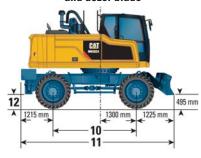
All dimensions are approximate.

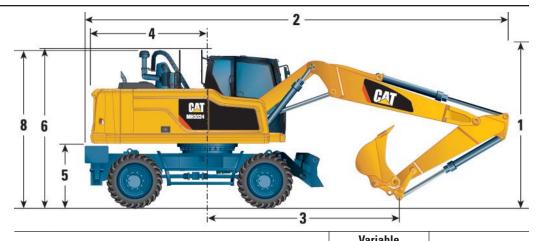






Undercarriage with 1 set of outriggers and dozer blade





			/ariabl stable	-	One-	Piece I	Boom
Boom Length	mm		5260			5350	
Stick Length	mm	2500	2800	3300	2500	2800	3300
1 Shipping Height with Falling Object Guard (highest point between boom and cab)	mm			33	375		
2 Shipping Length	mm	8915	8890	8940	9025	9025	9040
3 Support Point	mm	3625	3485	3270	3480	3300	3070
4 Tail Swing Radius	mm			25	570		
5 Counterweight Clearance	mm			13	310		
6 Cab Height with Hydraulic Cab Riser							
Cab Lowered – without Falling Object Guard	mm			32	245		
Cab Lowered – with Falling Object Guard	mm			33	375		
Cab Raised – with Falling Object Guard	mm			57	75		
Cab Raised – without Falling Object Guard	mm			56	545		
7 Overall Machine Width							
Width with Outriggers on Ground	mm			39	30		
Width over Tires with Outriggers Up	mm			27	750		
Width with Blade	mm			27	750		
8 Height of Tray Group Flex	mm			33	360		
9 Maximum Outriggers Depth	mm			12	20		
10 Wheel Base	mm			27	750		
11 Undercarriage Length							
With 1 Set of Outriggers Raised and Dozer Blade Raised	mm			51	.90		
12 Undercarriage Clearance	mm			32	25		

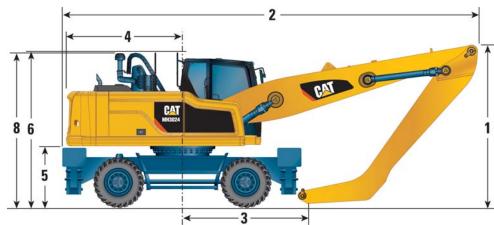
 $^{{}^{*}\}text{Standard}$ undercarriage with dozer blade and 1 set of outriggers and dual pneumatic tires.

Note: Values are with 11.00-20 pneumatic tires. For machines fitted with solid tires, all vertical dimensions have to be reduced by 35 mm. For dimension 3, add 35 mm.

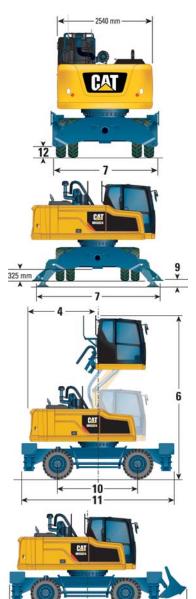
Dimensions – With MH Undercarriage (with solid tires)*

All dimensions are approximate.





MH Undercarriage MH Undercarriage



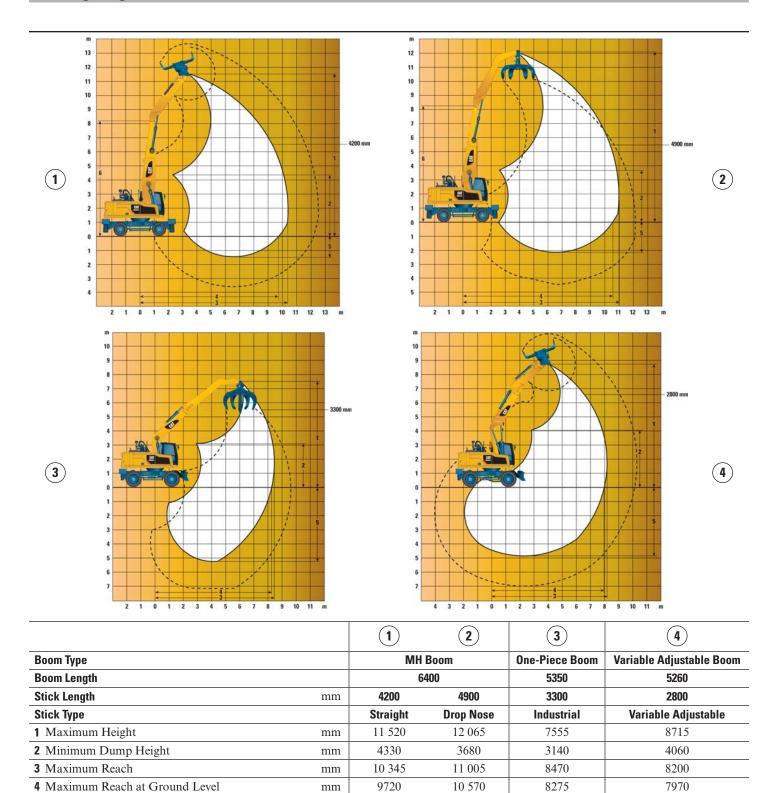
		2.7	5 m	2.9	9 m
			MH Boom	6400 mm	
Stick Length	mm	4200	4900	4200	4900
Stick Type		Straight	Drop Nose	Straight	Drop Nose
1 Shipping Height with Falling Object Guard (highest point between boom and cab)	mm	3340	3620	3340	3620
2 Shipping Length	mm	9420	9280	9420	9280
3 Support Point	mm	3230	2760	3230	2760
4 Tail Swing Radius	mm		25	70	
5 Counterweight Clearance	mm		12	75	
6 Cab Height with Hydraulic Cab Riser					
Cab Lowered – without Falling Object Guard	mm		32	10	
Cab Lowered – with Falling Object Guard	mm		334	40	
Cab Raised – with Falling Object Guard	mm		574	40	
Cab Raised – without Falling Object Guard	mm		56	10	
7 Overall Machine Width					
Width with Outriggers on Ground	mm	40	080	43	360
Width with Outriggers Up	mm	27	40	29	990
Width with the Special Front Push Blade	mm	27	750	29	990
8 Height of Tray Group Flex	mm		33	25	
9 Maximum Outriggers Depth	mm	1:	20	ç	90
10 Wheel Base	mm		27	50	
11 Undercarriage Length	mm		52.	50	
With MH Undercarriage Front Push Blade	mm		60	80	
12 Undercarriage Clearance	mm		24	15	

^{*}Dimensions with MH undercarriage, outriggers front and rear, and without work tool.

When the shipping height is over 4 m, the stick must be removed for transportation.

Note: Values are with 10.00-20 solid tires. For machine fitted with 11.00-20 pneumatic tires and MH Undercarriage all vertical dimensions have to be increased by 35 mm. For dimension 9 reduce by 35 mm.

Working Ranges



1485

8235

mm

mm

2185

8235

5245

All dimensions refer to stick nose pin, with solid tires.

5 Maximum Depth

6 Boom Pin Height

These dimensions are independent from the undercarriage type.

4880

Work Tool Offering Guide*

	Undercarriage	В	lade				/5 m) ers Lo		ed		2 Se			.75 n gers		/ere	d		2 Se		/IH (2 utrig		n) Low	ered	
	Boom Type		e-Pio Boon		VA	\ Boo	om		IH om (m)		e-Pio Boon		VA	\ Boo	om		IH om l m)		e-Pio		VA	A Boo	om	М Вос (6.4	om
	Stick Length	2500 mm	2800 mm	3300 mm ⁽¹⁾	2500 mm	2800 mm	3300 mm ⁽¹⁾	4200 mm ⁽²⁾	4900 mm ⁽³⁾	2500 mm	2800 mm	3300 mm ⁽¹⁾	2500 mm	2800 mm	3300 mm ⁽¹⁾	4200 mm ⁽²⁾	4900 mm ⁽³⁾	2500 mm	2800 mm	3300 mm ⁽¹⁾	2500 mm	2800 mm	3300 mm ⁽¹⁾	4200 mm ⁽²⁾	4900 mm ⁽³⁾
Material Handling Work Tools																									
	G315 GC																								
	G315 GC fixed CAN																								
Demolition and	G315B-D/R																								
Sorting Grapple	G315B-D/R fixed CAN																							ш	
	G315B-WH 800 L																								
	G315B-WH 1100 L																								
	GSH15B 400 L	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	GSH15B 500 L	1.8	1.8	1.8	1.8	1.8	1.8	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Orange Peel Grapple	GSH15B 600 L	1.8	1.8	1.8	1.8	1.8	1.8	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Horizontal Cylinders	GSH15B 800 L	1.8	1.8	1.8	1.8	1.2	1.8			1.8	1.8	1.8	1.8	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.2	1.8	1.8	1.8
(4 or 5 Tines)	GSH420/GSH520 500 L	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	GSH420/GSH520 600 L	1.8	1.8	1.8	1.8	1.8	1.8	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	GSH420/GSH520 750 L	1.8	1.8	1.8	1.8	1.8	1.8	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
0 0 10	GSV520/GSV520GC 400 L	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Orange Peel Grapple Vertical Cylinders	GSV520/GSV520GC 500 L	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
(5 Tines)	GSV520/GSV520GC 600 L	1.8	1.8	1.8	1.8	1.8	1.8	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
(5 111163)	GSV520/GSV520GC 750 L	1.8	1.8	1.8	1.8	1.8	1.8	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	CTV15 1000 L	1.8	1.2	1.8	1.8	1.2	1.8			1.8	1.2	1.8	1.8	1.2	1.8	1.8	1.8	1.8	1.2	1.8	1.8	1.2	1.8	1.8	1.8
Clamshell Grapple	CTV15 1200 L	1.8	1.2	1.2	1.2	1.2	1.2			1.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	CTV15 1500 L	1.2		1.2			1.2			1.2		1.2			1.2			1.2		1.2			1.2	1.2	1.2
Material Density							1.2	T/m	³] (le:	ss d	ense	mat	erial)/1.8	[T/m	1 ³] (s	tand	ard r	nate	rial)					
(1) Industrial Stick			Wo	k to	nl is	a ma	atch																		
(2) Straight Stick							ted o	nun	er																
(3) Drop Nose Stick						uiva	iou t	Jup	01																
ייים אוויטף אוויטף אוויטף אוויט				on o	,		l '	انطه				.1													
							•	th d	eaica	ated	cou	oier													
			Not	reco	omm	ende	ed																		

^{*}Offerings not available in all areas. Matches are dependent on Wheeled Excavator configurations. Consult your Cat dealer to determine what is offered in your area and for proper work tool match.

Fixed CAN: CW quick coupler adapter plates

 $Demolition\ and\ Sorting\ Grapple:\ D-Demolition\ shells;\ R-Recycling\ shells;\ WH-Waste\ Handling$

Work Tool Offering Guide*

	Undercarriage	В	lade	Star and					ed		2 Se		IH (2 utrig			/erec	i		2 Se		IH (2 utrig			erec	i
	Boom Type	1 -	e-Pio Boon		VA	\ Boo	om	Во	IH om m)	_	e-Pie Boon		VA	Boo	om	Во	IH om l m)		e-Pio Boon		VA	Boo	om	М Во (6.4	om
	Stick Length	2500 mm	2800 mm	3300 mm ⁽¹⁾	2500 mm	2800 mm	3300 mm ⁽¹⁾	4200 mm ⁽²⁾	4900 mm ⁽³⁾	2500 mm	2800 mm	3300 mm ⁽¹⁾	2500 mm	2800 mm	3300 mm ⁽¹⁾	4200 mm ⁽²⁾	4900 mm ⁽³⁾	2500 mm	2800 mm	3300 mm ⁽¹⁾	2500 mm	2800 mm	3300 mm ⁽¹⁾	4200 mm ⁽²⁾	4900 mm ⁽³⁾
Demolition Work Tools			l					<u> </u>									<u> </u>			<u> </u>					\dashv
Hydraulic Hammer	B20 H115Es H120Es H130Es																								
Multi-Processor	MP318 CC Jaw MP318 D Jaw MP318 P Jaw MP318 U Jaw																								
Crusher	MP318 S Jaw P315																								
Pulverizer	P215																							\Box	
Scrap and Demolition Shear	\$320B \$325B \$340B																								
Compactor Plate	CVP75																								
Pin Grabber Coupler Dedicated Quick Coupler	Cat-PG CW-30 CW-30s	These couplers are available for the MH3024 (linkage stick).																							
(1) Industrial Stick (2) Straight Stick (3) Drop Nose Stick		Work tool is a match Pin-on or dedicated coupler Pin-on only Boom mount Not recommended																							

^{*}Offerings not available in all areas. Matches are dependent on Wheeled Excavator configurations. Consult your Cat dealer to determine what is offered in your area and for proper work tool match.

Lift Capacities

All values are in kg, bucket cylinder and linkage installed, work tool: none, hydraulic cab riser, MH undercarriages, with counterweight (4200 kg), heavy lift on.

>>⊤ Load	point height Load over from	nt	Ç	Load o	ver rear			_ Load ov	er side			Load	at maximu	ım reach (s	stick nose/	bucket pin	1)
Underd	arriage						Во	om				Sti	ck				
Standa	ard (2.75 m)						On	e-Piece	9			3.3	m Ind	ustrial			
>> _⊤			3000 mm			4500 mm			6000 mm			7500 mm			4	=0	
	Undercarriage configuration		1	GP	P	P	œ	P.	7	œ	4	P	œ		7	GP	mm
7500 mm	MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires													*3400 *3400	*3400 *3400	*3400 *3400	6160
6000 mm	MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires													*3250 *3250	*3250 *3250	*3250 *3250	7310
4500 mm	MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires							*5650 *5650	*5650 *5650	4650 *5650	4400 *4550	4400 *4550	3400 *4550	*3250 *3250	*3250 *3250	3050 *3250	8020
3000 mm	MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires				*8050 *8050	*8050 *8050	6650 *8050	5900 *6450	5900 *6450	4500 *6450	4300 *5600	4300 *5600	3300 *5600	*3350 *3350	*3350 *3350	2800 *3350	8380
1500 mm	MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires				8550 *9750	8550 *9750	6250 *9750	5700 *7250	5700 *7250	4300 *7250	4200 *5950	4200 *5950	3200 *5950	3550 *3600	3550 *3600	2700 *3600	8470
0 mm	MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires	*7000 *7000	*7000 *7000	*7000 *7000	8250 *10 600	8250 *10 600	5950 *10 600	5550 *7750	5550 *7750	4150 *7750	4150 *6150	4150 *6150	3100 5950	3650 *4100	3650 *4100	2750 *4100	8270
-1500 mm	MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires	*9800 *9800	*9800 *9800	*9800 *9800	8100 *10 500	8100 *10 500	5850 *10 500	5450 *7750	5450 *7750	4050 *7750	4100 *5950	4100 *5950	3100 5900	3900 *4950	3900 *4950	2950 *4950	7770
-3000 mm	MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires	*13 450 *13 450	*13 450 *13 450	10 550 *13 450	8100 *9500	8100 *9500	5850 *9500	5450 *7000	5450 *7000	4050 *7000				4550 *5800	4550 *5800	3400 *5800	6900
-4500 mm	MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires	*9900 *9900	*9900 *9900	*9900 *9900	*7200 *7200	*7200 *7200	5950 *7200							*5650 *5650	*5650 *5650	4650 *5650	5470

^{*}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.

Lift Capacities

All values are in kg, bucket cylinder and linkage installed, work tool: none, hydraulic cab riser, MH undercarriages, with counterweight (4200 kg), heavy lift on.

\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	point height Load over from	nt		P Load o	ver rear		G-	Load ov	er side			Load	at maximu	m reach (s	tick nose/	bucket pin	1)
Underd	carriage						Boo	om				Sti	ck				
Standa	ard (2.75 m)						VA					2.8	m				
> _⊤			3000 mm			4500 mm			6000 mm			7500 mm			=	=	
	Undercarriage configuration		7	æ	₽4	ng l	œ	4	7	æ		7	æ	4	7	œ	mm
7500 mm	MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires													*3200 *3200	*3200 *3200	*3200 *3200	5770
6000 mm	MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires							*5150 *5150	*5150 *5150	4400 *5150				*2850 *2850	*2850 *2850	*2850 *2850	6990
4500 mm	MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires				*6600 *6600	*6600 *6600	*6600 *6600	5750 *5850	5750 *5850	4300 *5850	*3900 *3900	*3900 *3900	3000 *3900	*2750 *2750	*2750 *2750	*2750 *2750	7730
3000 mm	MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires				*8350 *8350	*8350 *8350	6200 *8350	5550 *6500	5550 *6500	4100 *6500	3950 *5500	3950 *5500	2900 *5500	*2750 *2750	*2750 *2750	2550 *2750	8110
1500 mm	MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires				8050 *9700	8050 *9700	5750 *9700	5300 *7100	5300 *7100	3900 *7100	3850 *5700	3850 *5700	2800 *5700	*2900 *2900	*2900 *2900	2450 *2900	8190
0 mm	MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires				7750 *10 100	7750 *10 100	5450 *10 100	5150 *7350	5150 *7350	3700 *7350	3750 *5650	3750 *5650	2750 5600	*3200 *3200	*3200 *3200	2500 *3200	7990
-1500 mm	MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires	*9050 *9050	*9050 *9050	*9050 *9050	7650 *9550	7650 *9550	5400 *9550	5050 *7000	5050 *7000	3650 *7000				*3750 *3750	*3750 *3750	2750 *3750	7470
-3000 mm	MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires	*10 900 *10 900	*10 900 *10 900	10 050 *10 900	7750 *8000	7750 *8000	5450 *8000	5100 *5700	5100 *5700	3700 *5700				4550 *4700	4550 *4700	3300 *4700	6550

^{*}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. Lift capacity is calculated with VA cylinder completely extracted.

Lift Capacities

All values are in kg, bucket cylinder and linkage installed, work tool: none, hydraulic cab riser, MH undercarriages, with counterweight (4200 kg), heavy lift on.

T Load	d point height Load over from	rear		ď	E Load	over sid	е			Loa	d at maxi	mum rea	ch (stick	nose/bud	cket pin)					
Underd	carriages							Во	om					Sti	ick					
MH (2	2.75 m and 2.99 m)							6.	4 m N	1H				4.2	2 m St	raigh	t			
S _T			3000 mm			4500 mm			6000 mm			7500 mm			9000 mm			4		
	Undercarriage configuration	4	7	æ	4	P	æ	A.	7	æ	4	P	æ	P.	P	æ	4	P	GP	mm
10 500 mm	MH (2.99 m) – stabilizers raised – solid tires MH (2.99 m) – stabilizers lowered – solid tires MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires				*8100 *8100 *8100 *8100	*8100 *8100 *8100 *8100	6800 *8100 6800 *8100										*6200 *6200 *6200 *6200	*6200 *6200 *6200 *6200	4800 *6200 4800 *6200	5540
9000 mm	MH (2.99 m) – stabilizers raised – solid tires MH (2.99 m) – stabilizers lowered – solid tires MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires							5850 *8100 5850 *8100	5850 *8100 5850 *8100	4350 *8100 4350 *8100							4000 *5300 4000 *5300	4000 *5300 4000 *5300	2950 *5300 2950 *5300	7420
7500 mm	MH (2.99 m) – stabilizers raised – solid tires MH (2.99 m) – stabilizers lowered – solid tires MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires							5850 *8250 5850 *8250	5850 *8250 5850 *8250	4350 *8250 4350 *8250	4000 *7000 4000 *7000	4000 *7000 4000 *7000	2950 6400 2950 5850				3100 *4900 3100 *4900	3100 *4900 3100 *4900	2250 *4900 2250 4550	8640
6000 mm	MH (2.99 m) – stabilizers raised – solid tires MH (2.99 m) – stabilizers lowered – solid tires MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires				9250 *10 600 9200 *10 600	9250 *10 600 9200 *10 600	6800 *10 600 6800 *10 600	5750 *8500 5700 *8500	5750 *8500 5700 *8500	4250 *8500 4250 8500	3950 *7050 3950 *7050	3950 *7050 3950 *7050	2900 6350 2900 5800	2850 5800 2850 5800	2850 5800 2850 5800	2050 4650 2050 4250	2600 *4750 2600 *4750	2600 *4750 2600 *4750	1850 4250 1850 3900	9460
4500 mm	MH (2.99 m) – stabilizers raised – solid tires MH (2.99 m) – stabilizers lowered – solid tires MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires	*14 500 *14 500 *14 500 *14 500	*14 500 *14 500	12 350 *14 500 12 350 *14 500	8750 *11 500 8750 *11 500	8750 *11 500 8750 *11 500	6350 *11 500 6350 *11 500	5500 *8850 5500 *8850	5500 *8850 5500 *8850	4050 *8850 4050 8200	3850 *7150 3800 *7150	3850 *7150 3800 *7150	2800 6200 2800 5700	2800 5750 2800 5750	2800 5750 2800 5750	2000 4600 2000 4200	2350 *4750 2350 *4750	2350 *4750 2350 *4750	1650 3850 1650 3500	10 000
3000 mm	MH (2.99 m) – stabilizers raised – solid tires MH (2.99 m) – stabilizers lowered – solid tires MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires				8100 *12 450 8100 *12 450	8100 *12 450 8100 *12 450	5750 *12 450 5750 *12 450	5200 *9200 5200 *9200	5200 *9200 5200 *9200	3750 8650 3750 7850	3650 *7200 3650 *7200	3650 *7200 3650 *7200	2650 6050 2650 5500	2750 5650 2750 5650	2750 5650 2750 5650	1950 4500 1950 4100	2200 *4500 2200 *4500	2200 *4500 2200 *4500	1500 3650 1500 3300	10 280
1500 mm	MH (2.99 m) – stabilizers raised – solid tires MH (2.99 m) – stabilizers lowered – solid tires MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires				7450 *12 450 7450 *12 450	7450 *12 450 7450 *12 450	5200 *12 450 5200 12 100	4900 *9100 4900 *9100	4900 *9100 4900 *9100	3450 8300 3450 7550	3500 *7000 3500 *7000	3500 *7000 3500 *7000	2500 5850 2500 5350	2650 *5450 2650 *5450	2650 *5450 2650 *5450	1850 4400 1850 4050	2150 *3950 2150 *3950	2150 *3950 2150 *3950	1450 3550 1450 3250	10 340
0 mm	MH (2.99 m) – stabilizers raised – solid tires MH (2.99 m) – stabilizers lowered – solid tires MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires				7100 *9400 7100 *9400	7100 *9400 7100 *9400	4850 *9400 4850 *9400	4700 *8350 4650 *8350	4700 *8350 4650 *8350	3250 8050 3250 7300	3400 *6400 3400 *6400	3400 *6400 3400 *6400	2400 5700 2350 5200	2600 *4800 2600 *4800	2600 *4800 2600 *4800	1800 4350 1800 3950				

^{*}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.

Lift Capacities

All values are in kg, work tool: none, hydraulic cab riser, MH undercarriages, with counterweight (4200 kg), heavy lift on.

→ T Loa	Load point height Load over front Load over f								(g L	oad ove	r side			4	Lo	ad at ma	aximum	reach (:	stick no	se/buck	.et pin)	
Under	carriages								E	Boom						St	tick						
MH (2	2.75 m and 2.99 m)								6	5.4 m	MH					4.	9 m	MH	(drop	nos	e)		
S _∓		:	3000 mm	ı	4	1500 mm	ı	(6000 mm	ı	7	7500 mm		9	000 mm	ı	10	0 500 mi	m		-	=0	
	Undercarriage configuration					4	Œ₽	P.	4	C.	4	7			7	Œ₽			Œ₽		7	Œ₽	mm
12 000 mm	MH (2.99 m) – stabilizers raised – solid tires MH (2.99 m) – stabilizers lowered – solid tires MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires		1)))			1)		*6950 *6950 *6950 *6950	*6950 *6950 *6950 *6950	*6950 *6950 *6950 *6950	3970
10 500 mm	MH (2.99 m) – stabilizers raised – solid tires MH (2.99 m) – stabilizers lowered – solid tires MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers rowered – solid tires							6150 *6500 6150 *6500	6150 *6500 6150 *6500	4650 *6500 4650 *6500										5100 *5250 5100 *5250	5100 *5250 5100 *5250	3850 *5250 3850 *5250	6700
9000 mm	MH (2.99 m) – stabilizers raised – solid tires MH (2.99 m) – stabilizers lowered – solid tires MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires							6250 *7850 6250 *7850	6250 *7850 6250 *7850	4800 *7850 4800 *7850	4350 *6300 4350 *6300	4350 *6300 4350 *6300	3300 *6300 3300 6250							3650 *4650 3650 *4650	3650 *4650 3650 *4650	2750 *4650 2750 *4650	8320
7500 mm	MH (2.99 m) – stabilizers raised – solid tires MH (2.99 m) – stabilizers lowered – solid tires MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires							6250 *8150 6250 *8150	6250 *8150 6250 *8150	4800 *8150 4800 *8150	4400 *7050 4400 *7050	4400 *7050 4400 *7050	3350 6800 3350 6250	3250 *5500 3250 *5500	3250 *5500 3250 *5500	2450 5050 2450 4650				3000 *4400 3000 *4400	3000 *4400 3000 *4400	2250 *4400 2250 4300	9420
6000 mm	MH (2.99 m) – stabilizers raised – solid tires MH (2.99 m) – stabilizers lowered – solid tires MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers raised – solid tires							6150 *8400 6150 *8400	6150 *8400 6150 *8400	4650 *8400 4650 *8400	4350 *7150 4300 *7150	4350 *7150 4300 *7150	3300 6750 3300 6200	3250 6150 3250 6150	3250 6150 3250 6150	2450 5000 2400 4650				2600 *4300 2600 *4300	2600 *4300 2600 *4300	1950 4100 1950 3800	10 180
4500 mm	MH (2.99 m) – stabilizers raised – solid tires MH (2.99 m) – stabilizers lowered – solid tires MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires				9350 *11 150 9300 *11 150		6900 *11 150 6900 *11 150	5900 *8850 5900 *8850	5900 *8850 5900 *8850	4450 *8850 4450 8650	4200 *7350 4200 *7350	4200 *7350 4200 *7350	3150 6600 3150 6050	3150 6100 3150 6100	3150 6100 3150 6100	2350 4950 2350 4550	2450 4750 2450 4750	2450 4750 2450 4750	1800 3900 1800 3600	2400 *4300 2400 *4300	2400 *4300 2400 *4300	1750 3800 1750 3500	10 680
3000 mm	MH (2.99 m) – stabilizers raised – solid tires MH (2.99 m) – stabilizers lowered – solid tires MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers rowered – solid tires	17 350 *18 550 17 300 *18 550	17 350 *18 550 17 300 *18 550	11 750 *18 550 11 750 *18 550	*12 350 8700	8700 *12 350 8700 *12 350	6350 *12 350 6350 *12 350	5600 *9350 5600 *9350	5600 *9350 5600 *9350	4200 9100 4150 8300	4050 *7500 4050 *7500	4050 *7500 4050 *7500	3000 6400 3000 5900	3100 6000 3050 6000	3100 6000 3050 6000	2300 4850 2300 4450	2450 4750 2450 4700	2450 4750 2450 4700	1800 3850 1800 3550	2250 *4400 2250 *4400	2250 *4400 2250 *4400	1650 3600 1650 3300	10 940
1500 mm	MH (2.99 m) – stabilizers raised – solid tires MH (2.99 m) – stabilizers lowered – solid tires MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires				8050 *12 950 8000 *12 950	8050 *12 950 8000 *12 950	5750 *12 950 5700 12 750	5300 *9550 5300 *9550	5300 *9550 5300 *9550	3900 8750 3850 7950	3850 *7500 3850 *7500	3850 *7500 3850 *7500	2850 6200 2850 5700	3000 5900 3000 5850	3000 5900 3000 5850	2200 4750 2200 4350	2400 *4650 2400 *4650	2400 *4650 2400 *4650	1750 3800 1750 3500	2250 *4100 2200 *4100	2250 *4100 2200 *4100	1600 3550 1600 3250	11 000
0 mm	MH (2.99 m) – stabilizers raised – solid tires MH (2.99 m) – stabilizers lowered – solid tires MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers raised – solid tires	*3500 *3500 *3500 *3500	*3500 *3500 *3500 *3500	*3500 *3500 *3500 *3500	7550	7550 *12 200 7550 *12 200	5300 *12 200 5300 *12 200	5050 *9150 5050 *9150	5050 *9150 5050 *9150	3650 8450 3650 7700	3750 *7100 3700 *7100	3750 *7100 3700 *7100	2700 6050 2700 5550	2900 *5550 2900 *5550	2900 *5550 2900 *5550	2100 4650 2100 4300	2350 *4000 2350 *4000	2350 *4000 2350 *4000	1700 3750 1700 3450				
–1500 mm	MH (2.99 m) – stabilizers raised – solid tires MH (2.99 m) – stabilizers lowered – solid tires MH (2.75 m) – stabilizers raised – solid tires MH (2.75 m) – stabilizers lowered – solid tires				7350 *9600 7350 *9600	7350 *9600 7350 *9600	5100 *9600 5100 *9600	4900 *7950 4900 *7950	4900 *7950 4900 *7950	3500 *7950 3500 7500	3650 *6200 3650 *6200	3650 *6200 3650 *6200	2600 5950 2600 5450	2850 *4650 2850 *4650	2850 *4650 2850 *4650	2050 4600 2050 4200							

^{*}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.

MH3024 Standard Equipment

Standard Equipment

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

ELECTRICAL

- Alternator, 115A
- Heavy Duty maintenance free batteries
- Lighting
- -Boom and stick LED working light
- One LED light on the counterweight for the rear camera, and one on the right for the sideview camera
- -Cab LED interior dome light
- -Roading lights two front, halogen
- -Roading lights two rear, LED
- Working LED lights, cab mounted (two front and one rear), compatible with Falling Objects Guards)
- · Main shut-off switch
- · Signal/warning horn

ENGINE

- Cat C7.1 ACERT Technology engine meets Stage IV emission standards
- Aftertreatment technologies including the Cat Clean Emission Module (Cat CEM) package
- · Air filter
- 3000 m altitude capability without de-rate
- Automatic engine speed control (AESC), including One Touch Low Idle
- Engine Idle Shutdown (EIS)
- · Automatic starting aid
- · Fuel filter
- Fuel/water separator with water in fuel switch
- 48° C ambient cooling capability without de-rate
- Power mode selector
- Electric fuel priming pump
- Capability of running with biodiesel fuel (B20)

HYDRAULICS

- · Adjustable hydraulic sensitivity
- Cat XTTM-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 attachments
- · Heavy lift mode
- · Load-sensing hydraulic system
- · Oil cooler
- · Quick disconnect couplings
- Separate swing pump
- Electric Pump Control (EPC)
- Boom Lowering Check Valve (BLCV), including overload warning device
- Stick Lowering Check Valve (SLCV)

OPERATOR STATION

- Additional color monitor for cameras, split-screen display for both cameras' view
- · 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 (four speeds), parallel wiping system, covering upper and lower windshield glass
- CD/MP3 radio (12V) 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, engine dial setting
- -Clock with 10-day backup battery
- Interior LED lighting with door switch
- Joysticks, pilot operated with one proportional slider
- · Laminated front windshield
- Left side console, tiltable, with lock out for all controls
- Cigarette lighter (24V)
- Literature holder in right console
- · Mobile phone holder
- · Parking brake
- Pin code type engine start prevention, integrated into the monitor
- Power supply, 12V-10A
- Rear window (tempered glass)/emergency exit, with hammer
- Retractable seat belt, integrated into the seat
- Seat belt indicator and alarm
- · Skylight, laminated glass
- · 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
- Safety lever, integrated into the left console
- Sealed cab, with positive filtered, variable speed ventilation

Continued on next page

MH3024 Standard Equipment

Standard Equipment

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

UNDERCARRIAGE

- Automatic brake and axle lock
- · Electronic swing and travel lock
- · Creeper speed
- Four wheel drive
- Heavy-duty axles, advanced travel motor, adjustable braking force and disc brake system
- Oscillating front axle, lockable, with remote greasing point
- Steps, wide, left and right
- Tool boxes, left and right, in undercarriage
- Two-speed hydrostatic transmission
- One-piece drive shaft, with 1,000 hours greasing intervals

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, 4200 kg
- Door locks and cap locks with Cat one-key security system
- Mirrors, wide angle, frame and cab
- Product Link

- Cameras
- Rear mounted wide angle camera, integrated into the counterweight
- Right side wide angle camera, mounted on the cooling hood.
- S·O·SSM Quick Sampling valves for engine oil, hydraulic oil and coolant
- Engine emergency shutoff switch
- · Spacer rings for tires

MH3024 Optional Equipment

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 an attachment
 - Programmable flow and pressure for up to 10 work tools selection via monitor
- Quick coupler circuits and lines for hydraulic quick coupler (both Cat pin grabber and dedicated/CW quick couplers, controlled by a dedicated switch)
- SmartBoom

HYDRAULICS

• Cat BIO HYDO Advanced HEES biodegradable hydraulic oil

FRONT LINKAGE

- VA boom (5260 mm):
- -Industrial stick (3300 mm)
- -Straight stick (2500, 2800 mm)
- One-Piece boom (5350 mm):
- -Industrial stick (3300 mm)
- -Straight stick (2500, 2800 mm)
- Material Handling boom (6400 mm):
- -Drop nose MH stick (4900 mm)
- -Straight MH stick (4200 mm)

ELECTRICAL

- · Adjustable travel alarm
- · Rotating beacon
- Generator, 15 kW

OPERATOR STATION

- Top/front guards
- Joystick steering
- Advanced joysticks with two proportional sliders
- High pressure auxiliary pedal
- Seat, adjustable back, with vertical and horizontal air-suspension and head rest
- Automatic weight adjustment, mechanical lumbar support, passive climate system, seat cushion length/angle adjustment and heated seat (Comfort)
- Automatic height and weight adjustment, active climate system, premium microfiber seat fabric, pneumatic lumbar support, seat cushion length and angle adjustment and adjustable dampening, heated and ventilated (Deluxe)
- Visor for rain protection
- Windshield
- One-piece, impact resistant, laminated windshield and skylight (EN356 P5A, 10 mm)
- -70/30 split, openable two-parts split, fixed, high impact resistant, laminated windshield and skylight (EN356 P8B, 26 mm)
- Mirrors, electrically adjustable and heated, frame and cab

TIRES

- Dual pneumatic 11.00-20
- Dual solid rubber, 10.00-20

UNDERCARRIAGE

- MH undercarriage with four welded outriggers (2.75 m or 2.99 m wide)
- MH undercarriage with four welded outriggers and front mounted blade (2.75 m or 2.99 m wide)
- Standard undercarriage, with outriggers (front and/or rear), dozer blade (front or rear)
- Easy Cab Access Package with ladder

OTHER EQUIPMENT

- Bucket linkages
- Cat Machine Security System
- Hydraulic quick coupler
- Maximum speed 20 km/h or 25 km/h*
- Refueling pump with dedicated tray for the hose
- Waste Handling Package, adds a reversing fan and vibrating grill to the cooling protection package
- · Advanced Cab Filtration System
- Attachments (see p. 26)
- *25 km/h not compatible with solid tires

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AEHQ8100 (Europe, Israel)

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