M324D2 MH

Wheel Material Handler

Engine		
Engine Model	Cat® C7.1 ACERT™	
Power – ISO 14396	128.8 kW	173 hp
Weights		
Operating Weight with Work Tool	23 570 kg to 26 660 kg	

Working Ranges	
Maximum Reach (stick pin)	12 480 mm
Maximum Height (stick pin)	13 300 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 M324D2 MH 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 M324D2 MH 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.

Engine
Power, Reliability and Fuel Economy

The Power and Performance You Need

The Cat engine meets China Nonroad III, UN/ECE R96 Stage IIIA emission standards, and U.S. EPA Tier 3/EU Stage IIIA equivalent emission standards, delivers a maximum net power (Acc. ISO 14396) of 128.8 kW at a rated speed of 2,000 rpm.

Fuel Efficiency

Common Rail Fuel System and Fuel Pump
This combination provides outstandingly low fuel consumption during both working and traveling applications.

Demand Fan Cooling System
The electronically controlled hydraulic motor drives a variable speed on-demand fan, resulting in optimized fuel consumption.

One-Touch Low Idle Control
The Automatic Engine Speed Control reduces engine speed if no operation is performed, reducing fuel consumption and sound levels.

Eco and Work Modes
- The Eco Mode can significantly reduce your fuel consumption
- The Travel Mode optimizes driveline performance while preserving fuel
- The Power Mode is the best compromise between productivity and fuel efficiency

Hydraulic System

Fast, Precise, Flexible

Efficient Design, Smart and Fast

- **Dedicated Swing Pump** – A closed hydraulic circuit is dedicated to the swing only. Having two separate pumps, one for the swing and the other for the other functions allows faster and smoother combined movements.
- **Stick Circuit** – Increases efficiency and helps enhance controllability for higher productivity.
- **Boom, Stick and Cab Riser Hydraulic Snubbers** – help cushion shocks, reduce sound and increase cylinders life.

Control Like No Other

- **Heavy Lift Mode** – maximizes lifting performance by boosting the lifting capability by 7%.
- **Adjustable Hydraulic Sensitivity** – Allows you to adjust the aggressiveness of the machine according to the application.
- **Tool Control System** – enables you to select up to 10 preprogrammed hydraulic work tools from the monitor. Proportional two-way flow is ideal for rotating tools with joystick sliding switches for modulated tool control.

Structure – Elevated Cab and Frame

Strength, Flexibility, 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:

- 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.
- Standard – The Standard undercarriage is equipped with dozer blade at front and stabilizers at 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.

Premium Comfort

Keeps Operators Productive All Shift Long

Legacy from the Renowned Cat Wheel 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. The comfort seat is equipped with a passive seat climate control and air suspension which can be adjusted to the operator's weight.

Automatic Climate Control

Easy adjustment of the cab temperature with filtered ventilation.

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.
- Two-way pedals for travel and auxiliary circuits provide increased floor space, reducing the need to change positions.

Plug, Charge and Play Your Devices

- The 12V 7A 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, fore/aft tiltable
- Hydraulic sensitivity of the machine to make it more or less aggressive
- Automatic air conditioning

Low Sound Levels, Less Fatigue

The rubber-mounted cab includes thick steel tubing. Associated with the comfortable air-suspended seat helps reduce vibrations and sound levels.

Visibility: See the difference!

- Halogen front roading lights and working lights
- LED rear roading lights
- All glass is affixed directly to the cab, eliminating the use of window frames.
- The 70/30 split front windshield stores the upper portion above the operator and is easy to release.
- A large skylight provides upward visibility and includes a retractable sunscreen. The parallel wiper system covers the entire front windshield.

Standard Rearview Camera

Together with the best in class visibility to all sides, the rear view displayed on the monitor helps ensure a safe operation.

Large Color Monitor

Easy to read and in local language, you can rely on the high resolution LCD monitor, which 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.

Front Linkage

Durability – Designed with No Compromises

You know that a material handler works only as good as its front linkage is able to handle the job. The M324D2 MH's booms and sticks are purpose built for the loads encountered in material handling applications. Sticks are purposely designed with leading side plates to maximize the protection of hydraulic lines.

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 and 5900 mm Drop Nose Sticks offer the reaching and lifting capabilities required for typical MH applications, while the 4800 mm Straight Stick is the best solution when additional work tool functionality is needed.

Special Applications

The M324D2 MH 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.

Smart Features

When Operation Becomes as Easy as Pleasant

Joystick Steering

Keep both hands on your joysticks even when you need to reposition the machine while simultaneously moving the implements. You can do more precise work faster.

Working Modes

Get the best power output from the engine and hydraulics and maintain optimum fuel efficiency:

- **Economy Mode** – for precise material handling and loading with the added benefit of reduced fuel consumption.
- **Power Mode** – for applications requiring fast volume loading and material casting.

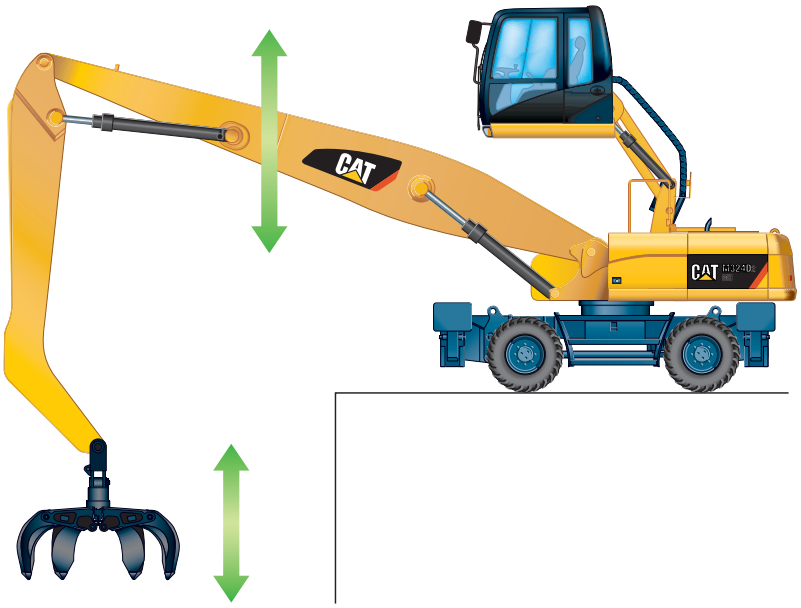
Automatic Travel Mode

Automatically engaged when the travel pedal is depressed, this mode provides maximum speed, drawbar pull and best in class fuel efficiency.

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.



Safety

Your Safety is NOT Optional

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

- Large handrails and steps assist you during cab ingress and egress.
- Anti-skid plates on all walkways and steps reduce slipping hazards, by decreasing the accumulation of mud, improving machine cleanliness and operator and technician safety.
- LED rear lights enhance visibility.
- Seat belt
- Emergency shut off switch and battery disconnect switch.
- Lowering check valves
- Standard rearview camera gives you a clear field of view behind the machine through the monitor.
- MSS Machine Security System prevents unauthorized machine use.

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. Work tool changes have never been easier!

Attachment Solutions for Scrap Recycling, Bulk Handling

When productivity, reliability and stability are important, Cat attachments are the perfect solution for the M324D2 MH. 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 M324D2 MH. 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 M324D2 MH 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 750 to 1000 liter. Several shell choices allow further customization of your grapple to the specific material you work with.

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.

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

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.

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.

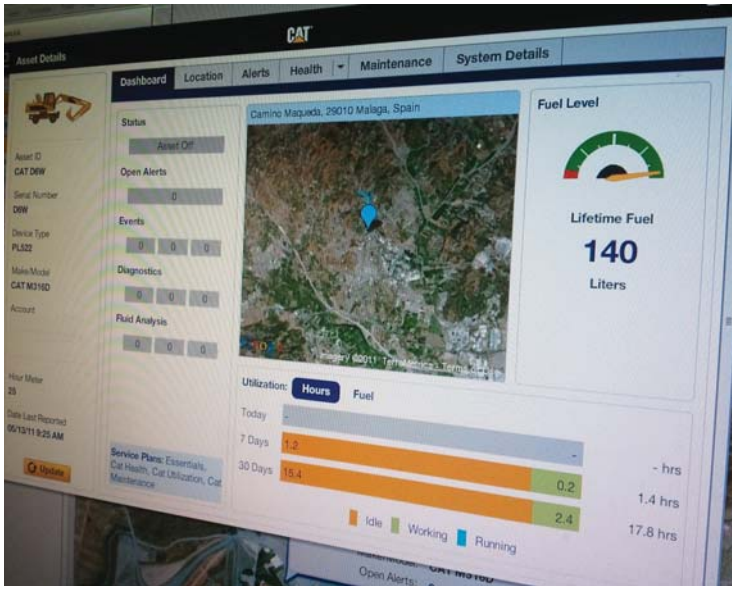
Featured Cat Connect technologies include the following:

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.



CAT® CONNECT

EQUIPMENT MANAGEMENT | PRODUCTIVITY | SAFETY | SUSTAINABILITY

Sustainability
Generations Ahead in Every Way

Fuel Efficiency and Reduced Exhaust Emissions
The Cat C7.1 engine meets China Nonroad III, UN/ECE R96 Stage IIIA emission standards, and U.S. EPA Tier 3/EU Stage IIIA equivalent emission standards, and performs the same amount of work as the previous model.

Fewer Leaks and Spills
Lubricant fillers and drains, Cat O-ring face seals, Cat XT™ hose and hydraulic cylinders are all designed to prevent fluid leaks that can reduce the machine performance.

Biodegradable Hydraulic Oil
The optional Cat Bio HYDO Advanced HEES™ is fully decomposed by soil or water microorganisms, as opposed to mineral-based oils.

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.

Serviceability
Uptime Counts

Easy Ground Level Maintenance

Our excavators are designed with the operator and technician in mind. Door opening is assisted with gas springs.

Front Compartment – Ground level access to the batteries, air-to-air aftercooler, air conditioner condenser and the air cleaner filter.

Swing-out Air Conditioner Condenser allows cleaning on both sides and access to the air-to-air aftercooler.

Engine Compartment – The longitudinal layout ensures accessibility from ground level.

Extended Service Intervals to Reduce Costs

- **S·O·S℠ Oil Sampling Analysis** – Enhances performance and durability. This system can predict potential failures and can extend hydraulic oil change intervals up to 6,000 hours.
- **Engine Oil (low ash oil)** – Cat engine oil is more cost effective and provides industry-leading performance. Engine oil change interval can be extended up to 500 hours.
- **Capsule Filter** – The hydraulic return filter prevents contamination when the hydraulic oil is changed.
- **Fuel Filters and Water Separator** – The new filtration system is suited for challenging work conditions, even when using poor fuel quality. The new primary filter offers increased filtration capabilities and works in conjunction with a water separator. Fuel filters are designed to last up to 500 hours (250 hours with very poor fuel quality). The primary fuel filter includes a fuel priming pump, a water level switch and a visual restriction indicator.
- **Remote Greasing** – Centralized or grouped points for hard to reach and critical locations.

Waste Handling Package

Specifically developed for machines working in dusty environments, this package has been tested to make sure customers can rely on it. This package includes:

- An automatic, hydraulic reversible fan that reverses airflow after a set interval, manually adjustable between 2 and 60 minutes directly from the monitor.
- A special dense wire mesh cooling system hood that further helps to reduce radiator clogging.
- A maintenance-free turbine precleaner with side dust ejection provides precleaned air to the engine air filter.
- A new air filter.
- A special dense wire mesh covering air inlets.
- A new sealing all around the front hood.

The front hood enclosures are perforated when the machine is equipped with the Waste Handling Package.

M324D2 MH Wheel Material Handler Specifications

Engine

Engine Model	Cat C7.1 ACERT	
Ratings	2,000 rpm	
Power – ISO 14396	128.8 kW	173 hp
Power – ISO 9249 @ 2,000 rpm	122 kW	164 hp
Power – 80/1269/EEC	122 kW	164 hp
Bore	105 mm	
Stroke	135 mm	
Displacement	7.01 L	
Cylinders	6	
Maximum Torque at 1,400 rpm	868 N·m	

- Meets China Nonroad III, UN/ECE R96 Stage IIIA emission standards, and U.S. EPA Tier 3/EU Stage IIIA equivalent emission standards.
- 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 deratings required up to 4500 m altitude. Automatic derating occurs after 4500 m.

Hydraulic System

Tank Capacity	225 L
System	405 L
Maximum Pressure	
Implement Circuit	
Normal	35 000 kPa
Heavy Lift	37 500 kPa
Travel Circuit	35 000 kPa
Auxiliary Circuit	
High Pressure	35 000 kPa
Medium Pressure	20 500 kPa
Swing Mechanism	34 000 kPa
Maximum Flow	
Implement/Travel Circuit	350 L/min
Auxiliary Circuit	
High Pressure	250 L/min
Medium Pressure	40 L/min
Swing Mechanism	112 L/min

Weights

Operating Weight*	23 570-24 890 kg
MH Boom	
MH Undercarriage, Straight Stick**	25 600 kg
MH Undercarriage, Drop Nose Stick**	25 300 kg
Standard Undercarriage, Straight Stick**	25 250 kg
One-Piece Boom	
Front Dozer, Rear Outriggers, 2.5 m Stick**	24 520 kg
Sticks***	
Digging Medium (2500 mm)	950 kg
Digging Long (2900 mm)	1025 kg
Straight (4800 mm)	1380 kg
Drop Nose (4900 mm)	940 kg
Drop Nose (5900 mm)	1100 kg
MH Push Blade	675 kg
Dozer Blade	850 kg
Solid Tires (delta vs. standard tires)	950 kg
Counterweight	5400 kg

*Operating weight includes solid tires, 5400 kg counterweight, operator and full fuel tank, four outriggers undercarriage and work tool (1400 kg). Weight varies depending on configuration.

**Machine weight with 5400 kg counterweight, with operator and full fuel tank, with solid tires, without quick coupler, with work tool (1400 kg).

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

Swing Mechanism

Swing Speed	9 rpm
Swing Torque	53 kN·m

Transmission

Forward/Reverse	
1st Gear	7 km/h
2nd Gear	25 km/h
Creeper Speed	
1st Gear	3 km/h
2nd Gear	9 km/h
Drawbar Pull	124 kN
Maximum Gradeability	56%

M324D2 MH Wheel Material Handler Specifications

Tire Options

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

Undercarriage

Ground Clearance	360 mm
Maximum Steering Angle	35°
Oscillation Axle Angle	± 5°
Minimum Turning Radius	
SA Undercarriage with Dual Pneumatic Tires	
Outside of Tire	6800 mm
End of One-Piece Boom	9300 mm

Push Blade

Blade Type	Radial
Blade Height	920 mm
Blade Width	2990 mm

Sustainability

Engine Emission Standards	Meets China Nonroad III, UN/ECE R96 Stage IIIA emission standards, and U.S. EPA Tier 3/ EU Stage IIIA equivalent emission standards
Fluids (Optional)	
Cat Bio HYDO™ Advanced	Readily biodegradable, EU Flower eco-label certified
Biodiesel 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

Standards

OPS	Meets OPS criteria 2006/42/EC
FOPS	FOPS (Falling Object Protective Structure) meets FOPS criteria ISO 10262:1998 and SAE J1356:2008
Cab/Sound Levels	Meets appropriate standards as listed below

Service Refill Capacities

Fuel Tank Capacity	385 L
Cooling	37 L
Engine Crankcase	15 L
Rear Axle Housing (Differential)	14 L
Front Steering Axle (Differential)	11 L
Final Drive	2.5 L
Powershift Transmission	2.5 L

Sound Levels

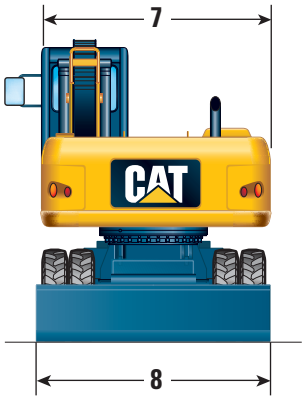
Operator Sound	
2000/14/EC, GB 16710-2010	71 dB(A)
Exterior Sound	
2000/14/EC, GB 16710-2010	103 dB(A)

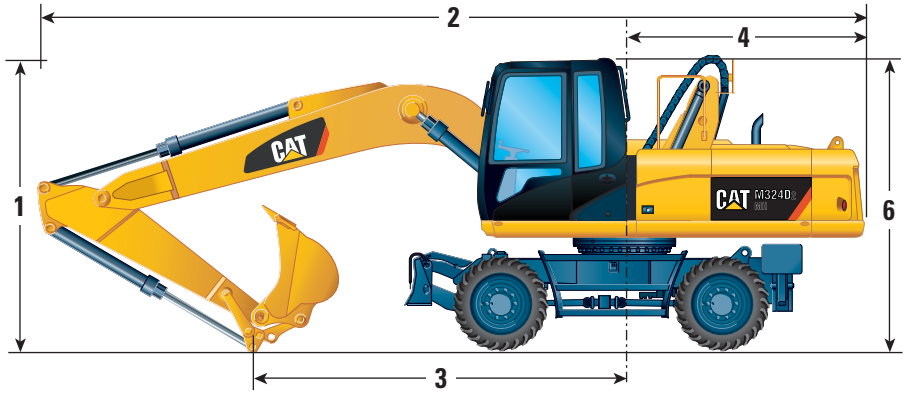
- Operator Sound – The operator sound level is measured according to the procedures specified in ISO 6396:2008, for a cab offered by Caterpillar, when properly installed and maintained and tested with the door and windows closed.
- Exterior Sound – The labeled spectator sound power level is measured according to the test procedures and conditions specified in ISO 6395:2008.
- 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).

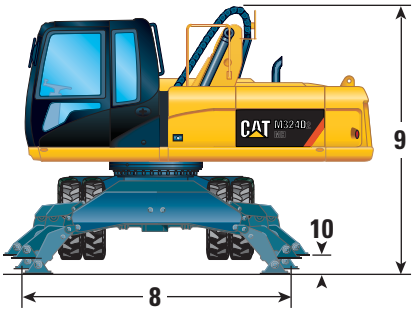
M324D2 MH Wheel Material Handler Specifications

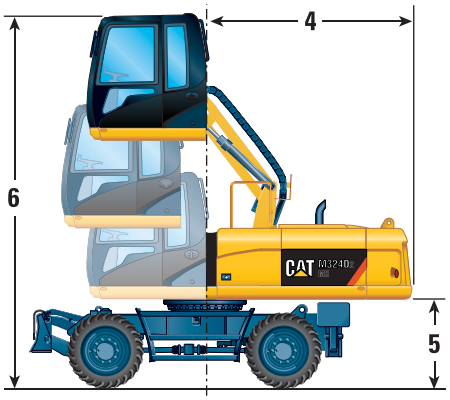
Dimensions – With Standard Undercarriage

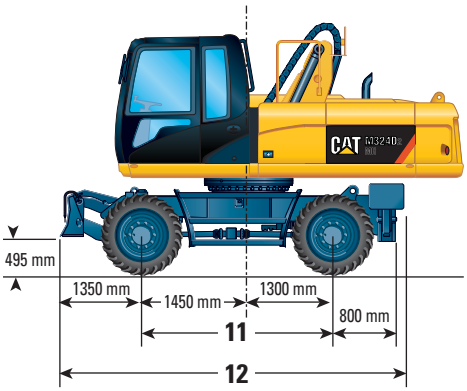
All dimensions are approximate.











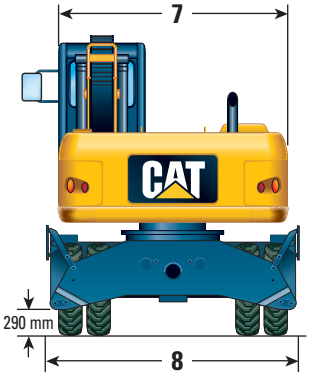
Undercarriage with 1 set of outriggers and dozer blade

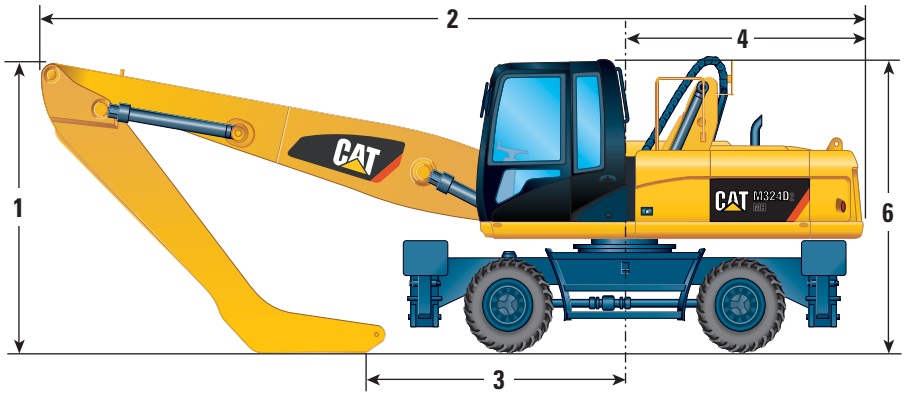
Boom Type		One-Piece Boom	
Stick Length		**2.5 m**	**2.9 m**
1 Shipping Height (boom and stick installed)			
at Boom	mm	3350	3350
at Cab Riser Tray Group Flex	mm	3350	3350
2 Shipping Length	mm	9720	9720
3 Support Point	mm	3720	3440
4 Tail Swing Radius	mm	2820	2820
5 Counterweight Clearance	mm	1310	1310
6 Cab Height			
Cab Lowered, No FOG	mm	3230	3230
Cab Lowered, with FOG	mm	3360	3360
Cab Raised, No FOG	mm	5630	5630
Cab Raised, with FOG	mm	5760	5760
7 Upperframe Width	mm	2670	2670
8 Undercarriage Width			
Width with Outriggers on Ground	mm	3930	3930
Width with Outriggers Up	mm	2750	2750
Width with Blade	mm	2750	2750
9 Height of Tray Group Flex	mm	3350	3350
10 Maximum Outriggers Depth	mm	120	120
11 Wheel Base	mm	2750	2750
12 Undercarriage Length			
With 1 Set of Outriggers and Dozer Blade Raised	mm	5175	5175

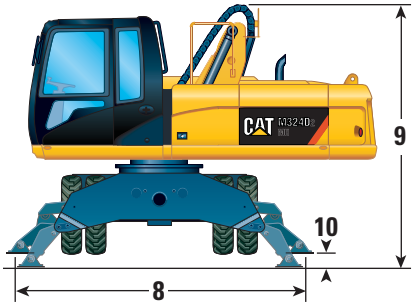
Note: Values are with pneumatic tires. For machine fitted with solid tires, dimensions 1, 5, 6 and 9 are to be reduced by 35 mm, dimension 10 is to be increased by 35 mm.

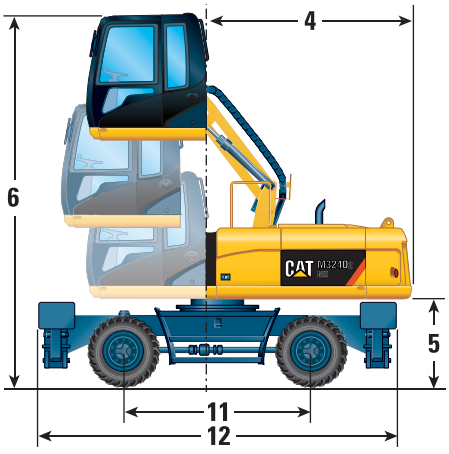
Dimensions – With MH Undercarriage

All dimensions are approximate.









Boom Type		MH Boom		
Stick Type		Straight Stick	Drop Nose Stick	
Stick Length		4.8 m	4.9 m	5.9 m
1 Shipping Height (boom and stick installed)				
at Boom	mm	3350	3600	3350*/5285
at Cab Riser Tray Group Flex	mm	3350	3350	3350
2 Shipping Length	mm	10 090	10 040	9930*/9520
3 Support Point	mm	3080	3250	3020
4 Tail Swing Radius	mm	2820	2820	2820
5 Counterweight Clearance	mm	1310	1310	1310
6 Cab Height				
Cab Lowered, No FOG	mm	3230	3230	3230
Cab Lowered, with FOG	mm	3360	3360	3360
Cab Raised, No FOG	mm	5630	5630	5630
Cab Raised, with FOG	mm	5760	5760	5760
7 Upperframe Width	mm	2670	2670	2670
8 Undercarriage Width				
With Outriggers on Ground	mm	4360	4360	4360
With Outriggers Up	mm	2990	2990	2990
With Blade	mm	2990	2990	2990
9 Height of Tray Group Flex	mm	3350	3350	3350
10 Maximum Outriggers Depth	mm	90	90	90
11 Wheel Base	mm	2750	2750	2750
12 Undercarriage Length				
With 2 Sets of Outriggers Raised	mm	5250	5250	5250

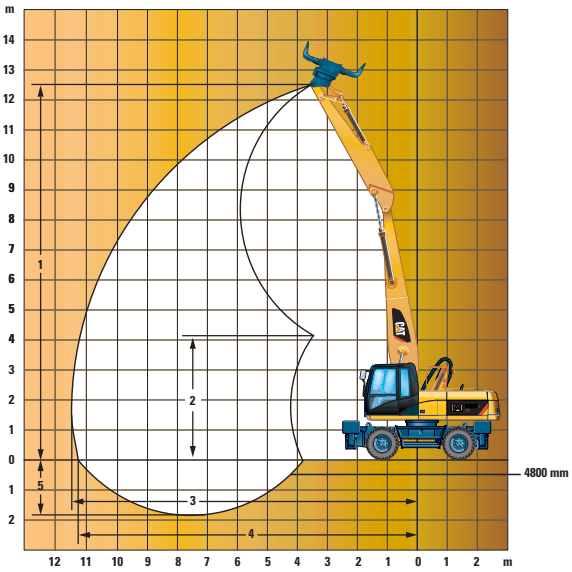
*Stick removed

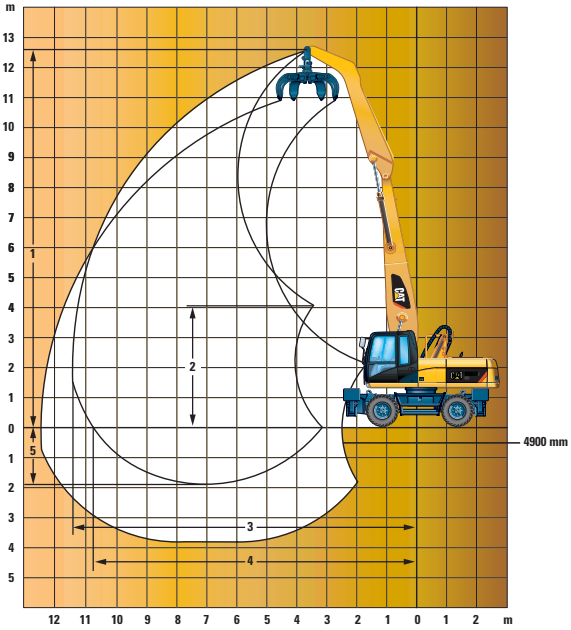
Note: Values are with pneumatic tires. For machine fitted with solid tires, dimensions 1, 5, 6 and 9 are to be reduced by 35 mm, dimension 10 is to be increased by 35 mm.

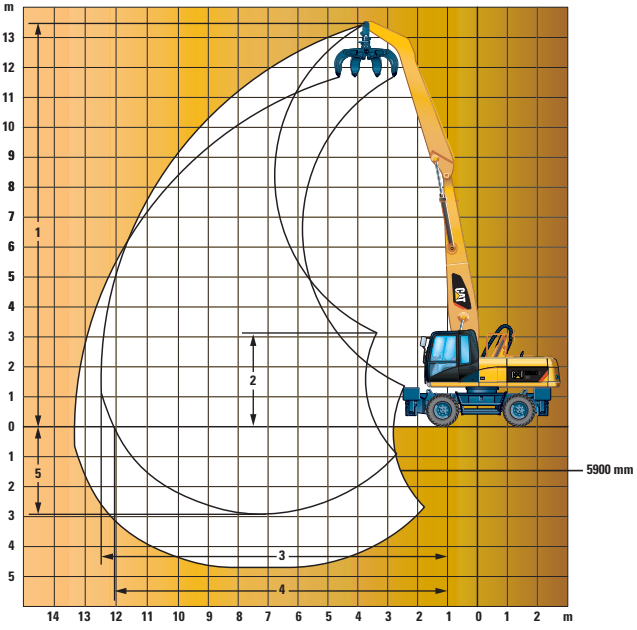
M324D2 MH Wheel Material Handler Specifications

Working Ranges

All dimensions are approximate.







Undercarriage Material Handling				
Boom Type		**MH**	**MH**	**MH**
Boom Length		**6800 mm**	**6800 mm**	**6800 mm**
Stick Type		**Straight**	**Drop Nose**	**Drop Nose**
Stick Length		**4800 mm**	**4900 mm**	**5900 mm**
1 Maximum Height	mm	12 430	12 500	13 300
2 Minimum Dump Height	mm	4120	4030	3090
3 Maximum Reach	mm	11 430	11 530	12 480
4 Maximum Reach at Ground Level	mm	11 280	10 850	12 050
5 Maximum Depth	mm	1820	1920	2920

All dimensions refer to stick nose pin, with solid tires. The dimensions are independent from undercarriage type.

Work Tools Matching Guide

			Boom	6800 mm					
			Undercarriage	MH			Standard		
Without Quick Coupler			Stick Length (mm)	4900	5900	4800	4900	5900	4800
360° Rotatable Shears*	S325B, S340B								
Multi-Grapples	G315B	D, R		×	×		×	×	
Orange Peel Grapples (5 tines)	GSH15B	400, 500, 600							
		800							
	GSH20B	600							
		800						×	
		1000					×	×	×
Orange Peel Grapples (4 tines)	GSH15B	400, 500, 600							
		800							
	GSH20B	600							
		800							
		1000							×
With Quick Coupler									
Quick Couplers	CW-30, 30S			×	×	×	×	×	×
	CW-40, 40S			×	×		×	×	
Multi-Grapples	G315B	D, R		×			×	×	

* Boom Mounted

360° Working Range

Quick Coupler Match

× Not Compatible

Maximum Material Density 1800 kg/m³

Maximum Material Density 1200 kg/m³

M324D2 MH Wheel Material Handler Specifications

Lift Capacities

All values are in kg, without work tool and without QC, with counterweight (5400 kg), heavy lift on.

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

Undercarriage
Standard

Boom
6800 mm

Stick
5900 mm

	Undercarriage configuration	3.0 m			4.5 m			6.0 m			7.5 m			9.0 m						m
12.0 m	2 sets stab down							*7450	*7450	*7450							*5700	*5700	*5700	7.09
	Rear dozer up							7050	5850	5000							5300	4350	3750	
	Rear dozer down								*7450	5550								*5700	4150	
	Dozer and stab down								*7450	*7450								*5700	*5700	
10.5 m	2 sets stab down										*7250	*7250	6500				*4950	*4950	4800	8.91
	Rear dozer up										5050	4150	3600				3700	3050	2600	
	Rear dozer down											*7250	4000					*4950	2900	
	Dozer and stab down											*7250	5550					*4950	4100	
9.0 m	2 sets stab down										*7500	*7500	6550	6700	5900	4850	*4600	*4600	3900	10.18
	Rear dozer up										5100	4250	3650	3750	3100	2650	3000	2400	2050	
	Rear dozer down											*7500	4050		5850	2950		*4600	2300	
	Dozer and stab down											*7500	5650		6400	4150		*4600	3300	
7.5 m	2 sets stab down										*7550	*7550	6550	6700	5900	4850	*4400	4100	3350	11.11
	Rear dozer up										5100	4200	3600	3750	3100	2650	2550	2050	1750	
	Rear dozer down											*7550	4050		5850	2950		4050	1950	
	Dozer and stab down											*7550	5600		6400	4150		*4400	2850	
6.0 m	2 sets stab down										*7750	*7750	6400	6650	5800	4800	4250	3750	3050	11.76
	Rear dozer up										5000	4100	3550	3700	3000	2600	2300	1850	1550	
	Rear dozer down											*7750	3950		5750	2900		3650	1750	
	Dozer and stab down											*7750	5500		6350	4100		4050	2600	
4.5 m	2 sets stab down							*9550	*9550	8950	*8050	7650	6250	6500	5700	4650	3950	3500	2850	12.20
	Rear dozer up							6850	5650	4800	4800	3950	3350	3600	2900	2500	2150	1700	1400	
	Rear dozer down								*9550	5350		7650	3750		5650	2800		3400	1600	
	Dozer and stab down								*9550	7600		*8050	5350		6250	4000		3800	2400	
3.0 m	2 sets stab down				*13 400	*13 400	*13 400	*10 300	*10 300	8500	*8400	7400	6000	6350	5550	4500	3800	3350	2700	12.43
	Rear dozer up				10 150	8200	6850	6450	5250	4400	4600	3700	3150	3450	2800	2350	2050	1600	1300	
	Rear dozer down					*13 400	7750		*10 300	5000		7350	3550		5500	2650		3300	1500	
	Dozer and stab down					*13 400	11 400		*10 300	7200		8150	5100		6100	3850		3650	2300	
1.5 m	2 sets stab down				*14 700	*14 700	12 800	*10 850	10 150	8050	8250	7100	5750	6200	5400	4350	3750	3300	2700	12.48
	Rear dozer up				9200	7350	6000	6000	4800	4000	4350	3500	2900	3300	2650	2200	2000	1550	1300	
	Rear dozer down					*14 700	6850		10 200	4550		7100	3300		5350	2500		3250	1500	
	Dozer and stab down					*14 700	10 450		*10 850	6700		7850	4850		5900	3700		3600	2250	
0.0 m	2 sets stab down	*4050	*4050	*4050	*14 700	*14 700	12 000	*10 800	9700	7600	8000	6900	5500	6050	5250	4250				
	Rear dozer up	*4050	*4050	*4050	8500	6650	5350	5600	4450	3650	4100	3250	2700	3200	2500	2100				
	Rear dozer down		*4050	*4050		*14 700	6200		9750	4200		6850	3100		5200	2400				
	Dozer and stab down		*4050	*4050		*14 700	9700		*10 800	6350		7600	4600		5800	3550				
–1.5 m	2 sets stab down				*10 450	*10 450	*10 450	*10 000	9400	7350	7800	6700	5350	5950	5150	4150				
	Rear dozer up				8100	6250	5000	5350	4200	3450	3950	3100	2550	3100	2400	2000				
	Rear dozer down					*10 450	5850		9450	3950		6650	2950		5050	2300				
	Dozer and stab down					*10 450	9250		*10 000	6050		7400	4450		5650	3450				

*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.

Continued on next page

Lift Capacities *(Continued)*

All values are in kg, without work tool and without QC, with counterweight (5400 kg), heavy lift on.

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

Undercarriage
Standard

Boom
6800 mm

Stick
5900 mm

Load point height	Undercarriage configuration	10.5 m			12.0 m						m
		Load over front	Load over rear	Load over side	Load over front	Load over rear	Load over side	Load at maximum reach (sticknose/bucket pin)			
12.0 m	2 sets stab down							*5700	*5700	*5700	7.09
	Rear dozer up							5300	4350	3750	
	Rear dozer down								*5700	4150	
	Dozer and stab down								*5700	*5700	
10.5 m	2 sets stab down							*4950	*4950	4800	8.91
	Rear dozer up							3700	3050	2600	
	Rear dozer down								*4950	2900	
	Dozer and stab down								*4950	4100	
9.0 m	2 sets stab down							*4600	*4600	3900	10.18
	Rear dozer up							3000	2400	2050	
	Rear dozer down								*4600	2300	
	Dozer and stab down								*4600	3300	
7.5 m	2 sets stab down	5150	4550	3700				*4400	4100	3350	11.11
	Rear dozer up	2850	2300	1950				2550	2050	1750	
	Rear dozer down		4450	2200					4050	1950	
	Dozer and stab down		4950	3200					*4400	2850	
6.0 m	2 sets stab down	5150	4500	3700				4250	3750	3050	11.76
	Rear dozer up	2850	2300	1950				2300	1850	1550	
	Rear dozer down		4450	2200					3650	1750	
	Dozer and stab down		4950	3150					4050	2600	
4.5 m	2 sets stab down	5050	4450	3650	4100	3600	2900	3950	3500	2850	12.20
	Rear dozer up	2800	2250	1900	2200	1750	1450	2150	1700	1400	
	Rear dozer down		4400	2150		3500	1650		3400	1600	
	Dozer and stab down		4850	3100		3900	2450		3800	2400	
3.0 m	2 sets stab down	5000	4400	3550	4050	3550	2900	3800	3350	2700	12.43
	Rear dozer up	2700	2150	1800	2150	1700	1400	2050	1600	1300	
	Rear dozer down		4300	2050		3450	1650		3300	1500	
	Dozer and stab down		4800	3050		3900	2450		3650	2300	
1.5 m	2 sets stab down	4900	4300	3450	4000	3500	2850	3750	3300	2700	12.48
	Rear dozer up	2650	2100	1750	2150	1650	1400	2000	1550	1300	
	Rear dozer down		4200	2000		3450	1600		3250	1500	
	Dozer and stab down		4700	2950		3850	2400		3600	2250	
0.0 m	2 sets stab down	4800	4200	3400	3950	3450	2800				
	Rear dozer up	2550	2000	1650	2100	1650	1350				
	Rear dozer down		4100	1900		3400	1550				
	Dozer and stab down		4600	2850		3800	2350				
–1.5 m	2 sets stab down	4750	4150	3350							
	Rear dozer up	2500	1950	1600							
	Rear dozer down		4050	1850							
	Dozer and stab down		4550	2800							

*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.

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M324D2 MH Wheel Material Handler Specifications

Lift Capacities

All values are in kg, without work tool and without QC, with counterweight (5400 kg), heavy lift on.

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

Undercarriage
Standard

Boom
6800 mm

Stick
4900 mm

	Undercarriage configuration	4.5 m			6.0 m			7.5 m			9.0 m			10.5 m						m
10.5 m	2 sets stab down				*9200	*9200	9100	*6350	*6350	6250							*6350	*6350	6250	7.50
	Rear dozer up				7000	5800	4950	4800	3950	3350							4800	3950	3350	
	Rear dozer down					*9200	5500		*6350	3750								*6350	3750	
	Dozer and stab down					*9200	7750		*6350	5300								*6350	5300	
9.0 m	2 sets stab down				*9300	*9300	9200	*8100	7800	6350							*5750	5750	4700	8.98
	Rear dozer up				7100	5900	5050	4950	4050	3500							3600	2950	2500	
	Rear dozer down					*9300	5600		7750	3900								5650	2800	
	Dozer and stab down					*9300	7850		*8100	5450								*5750	4000	
7.5 m	2 sets stab down				*9350	*9350	9150	*8050	7800	6350	6550	5750	4750				*5450	4800	3950	10.02
	Rear dozer up				7050	5850	5000	4950	4050	3500	3650	3000	2550				3050	2450	2050	
	Rear dozer down					*9350	5550		7750	3900		5700	2850					4750	2350	
	Dozer and stab down					*9350	7800		*8050	5450		6300	4050					5250	3350	
6.0 m	2 sets stab down				*9700	*9700	9000	*8200	7700	6250	6500	5700	4700	5050	4450	3650	4850	4300	3500	10.74
	Rear dozer up				6900	5700	4850	4850	4000	3400	3600	2950	2500	2800	2250	1900	2700	2150	1800	
	Rear dozer down					*9700	5400		7650	3800		5650	2800		4400	2150		4200	2050	
	Dozer and stab down					*9700	7650		*8200	5350		6250	4000		4850	3100		4700	3000	
4.5 m	2 sets stab down	*13 150	*13 150	*13 150	*10 300	*10 300	8650	*8450	7500	6100	6450	5650	4600	5050	4450	3600	4500	4000	3250	11.22
	Rear dozer up	10 400	8500	7100	6600	5400	4550	4700	3800	3250	3550	2850	2450	2750	2200	1850	2450	1950	1650	
	Rear dozer down		*13 150	8000		*10 300	5150		7450	3650		5550	2750		4350	2100		3900	1900	
	Dozer and stab down		*13 150	11 700		*10 300	7350		8250	5200		6150	3950		4850	3100		4350	2750	
3.0 m	2 sets stab down	*14 550	*14 550	13 250	*10 850	10 400	8250	8400	7300	5900	6300	5500	4500	4950	4350	3550	4350	3800	3100	11.47
	Rear dozer up	9600	7750	6400	6200	5050	4250	4500	3650	3050	3400	2750	2300	2700	2150	1800	2350	1850	1550	
	Rear dozer down		*14 550	7250		10 450	4800		7250	3450		5450	2650		4300	2050		3750	1800	
	Dozer and stab down		*14 550	10 850		*10 850	6950		8000	5000		6050	3800		4750	3000		4150	2650	
1.5 m	2 sets stab down	*15 050	*15 050	12 400	*11 050	9950	7850	8150	7050	5650	6150	5400	4350	4900	4300	3500	4250	3750	3050	11.52
	Rear dozer up	8850	7000	5700	5850	4700	3900	4300	3450	2850	3300	2650	2200	2650	2100	1750	2300	1800	1500	
	Rear dozer down		*15 050	6550		10 000	4450		7000	3250		5300	2500		4200	2000		3700	1750	
	Dozer and stab down		*15 050	10 050		*11 050	6550		7750	4800		5900	3700		4700	2950		4100	2600	
0.0 m	2 sets stab down	*10 200	*10 200	*10 200	*10 550	9600	7550	7950	6850	5500	6050	5300	4250	4850	4250	3450				
	Rear dozer up	8350	6550	5250	5550	4400	3650	4100	3250	2700	3200	2550	2100	2600	2050	1700				
	Rear dozer down		*10 200	6100		9700	4150		6800	3100		5200	2400		4150	1950				
	Dozer and stab down		*10 200	9550		*10 550	6300		7600	4600		5800	3600		4650	2900				
–1.5 m	2 sets stab down				*9150	*9150	7400	*7250	6750	5400										
	Rear dozer up				5400	4250	3500	4000	3150	2600										
	Rear dozer down					*9150	4000		6700	3000										
	Dozer and stab down					*9150	6150		*7250	4500										

*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 kg, without work tool and without QC, with counterweight (5400 kg), heavy lift on.

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

Undercarriage
Standard

Boom
6800 mm

Stick
4800 mm

Load point height	Undercarriage configuration	4.5 m			6.0 m			7.5 m			9.0 m			10.5 m						m
10.5 m	2 sets stab down				*8900	*8900	8800										*6200	*6200	6100	7.35
	Rear dozer up				6700	5500	4650										4650	3750	3150	
	Rear dozer down					*8900	5200											*6200	3550	
	Dozer and stab down					*8900	7450											*6200	5200	
9.0 m	2 sets stab down				*9050	*9050	8900	*7750	7500	6050							*5550	5550	4500	8.86
	Rear dozer up				6800	5600	4750	4600	3750	3150							3400	2700	2250	
	Rear dozer down					*9050	5300		7450	3550								5500	2550	
	Dozer and stab down					*9050	7550		*7750	5150								*5550	3800	
7.5 m	2 sets stab down				*9100	*9100	8850	*7750	7450	6050	6250	5450	4400				5250	4550	3700	9.91
	Rear dozer up				6750	5550	4700	4600	3750	3150	3350	2650	2200				2750	2150	1800	
	Rear dozer down					*9100	5250		7450	3550		5400	2500					4500	2050	
	Dozer and stab down					*9100	7500		*7750	5150		5950	3700					5000	3100	
6.0 m	2 sets stab down				*9400	*9400	8650	*7900	7350	5950	6200	5400	4350	4750	4150	3300	4600	4050	3250	10.64
	Rear dozer up				6550	5350	4500	4500	3650	3050	3300	2600	2200	2450	1900	1550	2400	1850	1500	
	Rear dozer down					*9400	5100		7350	3450		5350	2500		4050	1800		3950	1750	
	Dozer and stab down					*9400	7300		*7900	5050		5950	3700		4550	2750		4400	2700	
4.5 m	2 sets stab down	*12 900	*12 900	*12 900	*9950	*9950	8300	*8100	7150	5750	6100	5300	4250	4700	4100	3300	4250	3700	2950	11.12
	Rear dozer up	10 050	8100	6700	6250	5050	4200	4350	3500	2900	3200	2500	2100	2450	1900	1550	2150	1650	1350	
	Rear dozer down		*12 900	7650		*9950	4800		7150	3300		5250	2400		4000	1800		3600	1550	
	Dozer and stab down		*12 900	11 350		*9950	7000		7900	4850		5800	3600		4500	2750		4100	2450	
3.0 m	2 sets stab down	*14 150	*14 150	12 800	*10 450	10 000	7900	8050	6900	5550	5950	5150	4150	4650	4050	3200	4050	3550	2800	11.38
	Rear dozer up	9200	7300	5950	5850	4650	3850	4100	3250	2700	3050	2400	1950	2350	1800	1450	2050	1550	1250	
	Rear dozer down		*14 150	6850		10 100	4400		6900	3100		5100	2300		3950	1700		3450	1450	
	Dozer and stab down		*14 150	10 450		*10 450	6550		7650	4650		5700	3450		4450	2700		3900	2350	
1.5 m	2 sets stab down	*14 550	*14 550	11 900	*10 600	9550	7450	7800	6700	5300	5800	5050	4000	4550	3950	3150	4000	3450	2750	11.43
	Rear dozer up	8350	6500	5200	5450	4300	3500	3900	3050	2500	2950	2300	1850	2300	1750	1400	2000	1500	1200	
	Rear dozer down		*14 550	6050		9600	4050		6650	2900		4950	2150		3900	1650		3400	1400	
	Dozer and stab down		*14 550	9550		*10 600	6150		7400	4400		5550	3350		4350	2600		3800	2300	
0.0 m	2 sets stab down	*9650	*9650	*9650	*10 000	9200	7150	7600	6500	5100	5700	4900	3900	4500	3900	3100				
	Rear dozer up	7850	6050	4800	5150	4000	3200	3750	2900	2350	2850	2200	1750	2250	1700	1350				
	Rear dozer down		*9650	5600		9250	3750		6450	2700		4850	2050		3800	1600				
	Dozer and stab down		*9650	9050		*10 000	5850		7200	4250		5450	3250		4300	2550				
–1.5 m	2 sets stab down				*8550	*8550	6950	*6700	6350	5000										
	Rear dozer up				5000	3850	3050	3600	2800	2250										
	Rear dozer down					*8550	3600		6300	2600										
	Dozer and stab down					*8550	5700		*6700	4100										

*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.

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M324D2 MH Wheel Material Handler Specifications

Lift Capacities

All values are in kg, without work tool and without QC, with counterweight (5400 kg), heavy lift on.

Undercarriage
Special Application

Boom
6800 mm

Stick
5900 mm

	Undercarriage configuration	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m				m
12.0 m	All stabilizers up					7000	5400									5300	4050	7.09
	All stabilizers down					*7450	*7450									*5700	*5700	
10.5 m	All stabilizers up							5000	3900							3700	2850	8.91
	All stabilizers down							*7250	*7250							*4950	*4950	
9.0 m	All stabilizers up							5100	3950	3750	2900					3000	2250	10.18
	All stabilizers down							*7500	*7500	*6750	5700					*4600	4600	
7.5 m	All stabilizers up							5050	3950	3750	2900	2850	2150			2550	1950	11.11
	All stabilizers down							*7550	*7550	*6700	5700	5350	4400			*4400	4000	
6.0 m	All stabilizers up							4950	3850	3700	2850	2850	2150			2300	1700	11.76
	All stabilizers down							*7750	7550	*6800	5650	5350	4400			*4300	3600	
4.5 m	All stabilizers up					6800	5200	4800	3650	3600	2750	2800	2100	2200	1650	2150	1600	12.20
	All stabilizers down					*9550	*9550	*8050	7350	6750	5500	5250	4300	4250	3500	4150	3400	
3.0 m	All stabilizers up			9950	7400	6400	4850	4550	3450	3450	2600	2700	2000	2200	1600	2050	1500	12.43
	All stabilizers down			*13 400	*13 400	*10 300	10 200	*8400	7100	6600	5350	5200	4250	4200	3450	4000	3250	
1.5 m	All stabilizers up			9050	6600	5950	4400	4300	3200	3300	2450	2650	1950	2150	1550	2000	1450	12.48
	All stabilizers down			*14 700	*14 700	*10 850	9700	8500	6850	6400	5200	5100	4150	4150	3400	3950	3200	
0.0 m	All stabilizers up	*4050	*4050	8350	5950	5550	4050	4100	3000	3200	2350	2550	1850	2100	1500			
	All stabilizers down	*4050	*4050	*14 700	*14 700	*10 800	9250	8250	6600	6250	5050	5000	4050	*4050	3350			
–1.5 m	All stabilizers up			7950	5600	5300	3850	3950	2850	3100	2250	2500	1800					
	All stabilizers down			*10 450	*10 450	*10 000	8950	*7850	6450	6150	4950	*4800	4000					

*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 kg, without work tool and without QC, with counterweight (5400 kg), heavy lift on.

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

Undercarriage
Special Application

Boom
6800 mm

Stick
4900 mm

Load point height	Undercarriage configuration	4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				m
10.5 m	All stabilizers up			6950	5350	4800	3700					4800	3700	7.50
	All stabilizers down			*9200	*9200	*6350	*6350					*6350	*6350	
9.0 m	All stabilizers up			7000	5450	4900	3800					3600	2750	8.98
	All stabilizers down			*9300	*9300	*8100	7500					*5750	5550	
7.5 m	All stabilizers up			7000	5400	4900	3800	3650	2800			3050	2300	10.02
	All stabilizers down			*9350	*9350	*8050	7500	6800	5550			*5450	4650	
6.0 m	All stabilizers up			6800	5250	4800	3700	3600	2750	2800	2100	2700	2000	10.74
	All stabilizers down			*9700	*9700	*8200	7400	6750	5550	5250	4300	5050	4150	
4.5 m	All stabilizers up	10 250	7650	6550	5000	4650	3550	3550	2700	2750	2100	2500	1850	11.22
	All stabilizers down	*13 150	*13 150	*10 300	*10 300	*8450	7200	6650	5450	5200	4300	4700	3850	
3.0 m	All stabilizers up	9450	6950	6150	4650	4450	3350	3400	2600	2700	2050	2350	1750	11.47
	All stabilizers down	*14 550	*14 550	*10 850	9950	8650	7000	6550	5300	5150	4200	4500	3700	
1.5 m	All stabilizers up	8700	6300	5800	4300	4250	3200	3300	2450	2650	1950	2300	1700	11.52
	All stabilizers down	*15 050	*15 050	*11 050	9500	8450	6800	6400	5200	5100	4150	*4450	3650	
0.0 m	All stabilizers up	8250	5850	5550	4050	4100	3050	3200	2350	2600	1900			
	All stabilizers down	*10 200	*10 200	*10 550	9200	*8250	6600	6300	5100	*5000	4100			
–1.5 m	All stabilizers up			5400	3900	4000	2950							
	All stabilizers down			*9150	9000	*7250	6500							

*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.

M324D2 MH Wheel Material Handler Specifications

Lift Capacities

All values are in kg, without work tool and without QC, with counterweight (5400 kg), heavy lift on.

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

Undercarriage
Special Application

Boom
6800 mm

Stick
4800 mm

	Undercarriage configuration	4.5 m		6.0 m		7.5 m		9.0 m		10.5 m				m
10.5 m	All stabilizers up			6600	5050							4600	3500	7.35
	All stabilizers down			*8900	*8900							*6200	*6200	
9.0 m	All stabilizers up			6750	5150	4600	3500					3350	2500	8.86
	All stabilizers down			*9050	*9050	*7750	7200					*5550	5350	
7.5 m	All stabilizers up			6700	5100	4600	3450	3300	2450			2750	2000	9.91
	All stabilizers down			*9100	*9100	*7750	7200	6450	5250			*5250	4400	
6.0 m	All stabilizers up			6500	4900	4500	3400	3300	2450	2450	1750	2400	1700	10.64
	All stabilizers down			*9400	*9400	*7900	7050	6400	5200	4900	4000	4800	3900	
4.5 m	All stabilizers up	9850	7300	6200	4650	4300	3200	3200	2350	2450	1750	2150	1550	11.12
	All stabilizers down	*12 900	*12 900	*9950	*9950	*8100	6900	6300	5100	4900	3950	4450	3550	
3.0 m	All stabilizers up	9050	6550	5800	4250	4100	3000	3050	2250	2350	1700	2050	1450	11.38
	All stabilizers down	*14 150	*14 150	*10 450	9550	*8300	6650	6200	4950	4800	3900	4250	3400	
1.5 m	All stabilizers up	8250	5800	5400	3900	3900	2800	2950	2100	2300	1600	2000	1400	11.43
	All stabilizers down	*14 550	*14 550	*10 600	9100	8050	6400	6050	4850	4750	3800	*4100	3350	
0.0 m	All stabilizers up	7750	5350	5100	3600	3700	2650	2850	2000	2250	1550			
	All stabilizers down	*9650	*9650	*10 000	8750	*7750	6200	5900	4750	*4500	3750			
–1.5 m	All stabilizers up			4950	3450	3600	2550							
	All stabilizers down			*8550	*8550	*6700	6100							

*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.

Standard Equipment

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

ELECTRICAL

- Alternator, 85A
- Heavy-duty maintenance free batteries
- Lights
  - Boom working light
  - Roading lights two front
  - Roading lights two rear, LED
  - Working lights, cab mounted (front and rear)
  - Cab interior light
- Main shut-off switch
- Signal/warning horn

ENGINE

- Automatic engine speed control
- Automatic starting aid
- Cat C7.1 with ACERT Technology
- Meets China Nonroad III, UN/ECE R96 Stage IIIA emission standards, and U.S. EPA Tier 3/EU Stage IIIA equivalent emission standards
- Fuel/water separator with level indicator
- High ambient cooling 52° C

HYDRAULICS

- Control circuits (standard and optional, depending on boom/stick/linkage choice):
  - Two-way, medium pressure circuit, for rotating or tilting of work tools
- Heavy lift mode
- Load-sensing plus hydraulic system
- Manual work modes (economy, power)
- Separate swing pump
- Auxiliary controls and lines
- Boom and stick lowering control devices

OPERATOR STATION

- Adjustable armrests
- Adjustable hydraulic sensitivity
- Air conditioner, heater and defroster with automatic climate control
- Beverage cup/can holder
- Bolt-on top/front guards capability
- Bottle holder
- Bottom mounted parallel wiping system, covering upper and lower windshield glass
- Camera mounted on counterweight displays through cab monitor
- Coat hook
- Floor mat, washable, with storage compartment
- Fully adjustable suspension seat, including headrest
- Hydraulic cab riser, 2400 mm rising
- Instrument panel and gauges, full graphic and color display
  - Information and warning messages in local language
  - Gauges for fuel level, engine coolant and hydraulic oil temperature
  - Filters/fluids change interval
  - Indicators for headlights, turning signal, low fuel, engine dial setting
  - Clock with 10-day backup battery
- Laminated front windshield
- Left side console, tiltable, with lock out for all controls
- Literature compartment behind seat
- Literature holder in right console
- Mobile phone holder
- Parking brake
- Positive filtered ventilation
- Power supply, 12V-7A
- Rear window, emergency exit
- Retractable seat belt
- Skylight
- Sliding door windows
- Steering column, adjustable angle
- Storage area suitable for a lunch box
- Sunshade for windshield and skylight

UNDERCARRIAGE

- Heavy-duty axles, advanced travel motor, adjustable braking force
- Oscillating front axle, with remote greasing
- Tool boxes, left and right, in undercarriage
- Two-speed hydrostatic transmission
- Tires, 11.00-20 16 PR, dual pneumatic, with spacer rings

OTHER EQUIPMENT

- Automatic swing brake
- Counterweight, 5400 kg
- Mirrors, frame and cab
- Product Link
- S·O·S Quick Sampling valves for engine oil, hydraulic oil and coolant

M324D2 MH 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 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
- Generator with valve and priority function

FRONT LINKAGE

- One-piece boom (5650 mm):
  - Straight stick (2500, 2900 mm)
- Material Handling boom (6800 mm):
  - Drop Nose MH stick (4900, 5900 mm)
  - Straight MH stick (4800 mm)
- Hydraulic quick coupler
- Bucket linkages

ELECTRICAL

- Back-up alarm with three selectable modes
- Rotating beacon on cab
- Refueling pump

OPERATOR STATION

- Falling objects guards
- Joystick steering
- Seat, adjustable high-back
  - Mechanical suspension
  - Vertical air suspension
- CD/MP3 radio (12V) at rear location including speakers and 12V converter
- Visor for rain protection
- Windshield
  - One-piece fixed, high impact resistant
  - 70/30 split, openable
- Travel speed lock

UNDERCARRIAGE

- MH undercarriage with four welded outriggers
- MH undercarriage with four welded outriggers and front mounted blade
- Standard undercarriage with dozer blade (front) and outriggers (rear)
- Tires, 10.00-20, solid rubber, with spacer rings

OTHER EQUIPMENT

- Cat Machine Security System
- Waste Handling Package (ambient capability 43° C)

Notes

Notes

Notes

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

AEHQ7500 (09-2015)

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.