

M322D MH

Wheel Material Handler



Engine

Engine Model	Cat® C6.6 with ACERT™ Technology	
Net Power (ISO 9249)	123 kW	165 hp

Weights

Operating Weight	20 500 to 25 700 kg	45,195 to 56,659 lb
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Working Ranges

Maximum Reach (stick pin)	12 480 mm	40'11"
Maximum Height (stick pin)	13 300 mm	43'8"

Features

Engine

The EPA Tier 3 compliant C6.6 offers increased performance and reliability while reducing fuel consumption and sound levels.

Environmentally Responsible Design

Helping to protect our environment, the engine has low operator and spectator sound levels, longer filter change intervals and is more fuel-efficient.

Hydraulics

The state of the art load-sensing hydraulic system provides you with faster cycle times and increased productivity on any material handling job.

Serviceability

For increased safety, all daily maintenance points are accessible from ground level. A centralized greasing system allows lubrication of critical points.

Operator Comfort

The operator station maximizes comfort while increasing safety. The available auto-weight adjusted air-suspension seat with heated and cooled ventilated cushions improves operator comfort. Safety is enhanced by the new color monitor and standard rear-mounted camera.

Undercarriage

Various undercarriage configuration with blade and outriggers are available to provide the best solution for you.

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The Cat® D Series Material Handlers incorporate innovations for improved performance and versatility.

Increased lifting capacity, improved cycle times and ease of operation lead to increased productivity and lower operating costs.

Engine

Built for power, reliability, low maintenance, excellent fuel economy and low emissions.

Powerful Performance

The Cat® C6.6 engine with ACERT™ Technology introduces a series of evolutionary, incremental improvements that provide breakthrough engine performance. The building blocks of ACERT Technology are fuel delivery, air management and electronic control. ACERT Technology optimizes engine performance while meeting EPA Tier 3 engine emission regulations. The Cat C6.6 engine in the M322D MH delivers a maximum gross power of 129 kW (173 hp).

Low Fuel Consumption

The Cat C6.6 engine is electronically controlled and uses the Cat Common Rail Fuel System and fuel pump. This combination provides outstanding fuel consumption during both production and travel. When the system recognizes roading application the engine will operate at the most efficient system operating point to save fuel without compromising road performance.

Low Noise, Low Vibration

The Cat C6.6 design improves operator comfort by reducing sound and vibration.

Cooling System

An electronically controlled, hydraulic motor drives a variable speed on-demand fan for engine coolant and hydraulic oil. The optimum fan speed is determined based on coolant and hydraulic oil temperature resulting in reduced fuel consumption and lower sound levels. The electronic engine control continuously compensates for the varying fan load, providing consistent net power, regardless of operating conditions.

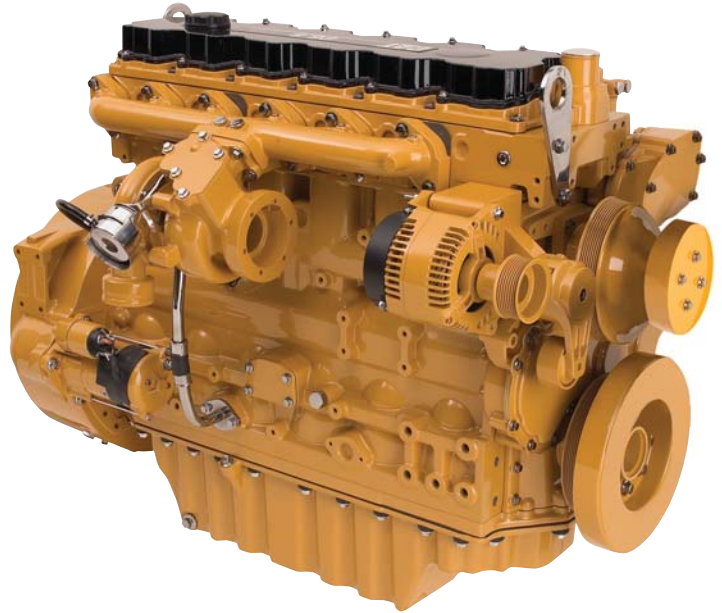
One-Touch Low Idle Control

The two stage, one-touch Automatic Engine Speed Control reduces engine speed if no operation is performed, maximizing fuel efficiency and reducing sound levels.

Waste Handling Package

The Waste Handling Package has been specifically developed for Material Handlers working in waste transfer stations or other dusty applications. This option features the following:

- An automatic, hydraulic reversible fan that reverses airflow after a set interval, manually adjustable between 2 and 60 minutes via the new monitor.
- A special dense wire mesh cooling system hood further reduces radiator clogging.
- Two cyclone filters provide clean filtered air to the engine compartment, air cleaner, aftercooler and air conditioner condenser.



Hydraulics

Fast cycle times and increased lift capacity combine to maximize your productivity in any job.



Implement Speed

D Series Material Handlers are able to offer fast stick and swing speeds, leading to more productivity.

Dedicated Swing Pump

A dedicated variable displacement piston pump and fixed displacement piston motor power the swing drive. This closed hydraulic circuit maximizes swing performance without reducing power to the other hydraulic functions, resulting in smoother combined movements.

Heavy Lift Mode

This mode maximizes lifting performance by boosting the lifting capability of the material handler by 7%. Heavy loads can be easily moved in the full working range of the machine, maintaining excellent stability and speed.

Adjustable Hydraulic Sensitivity

Adjustable Hydraulic Sensitivity allows the operator to adjust the aggressiveness of the machine according to the application.

Proportional Auxiliary Hydraulics

Versatility of the hydraulic system can be expanded to utilize a wide variety of hydraulic work tools using multiple valve options.

- The Multi-Combined Valve is the core of the Tool Control System, allowing the operator to select up to ten preprogrammed work tools from the monitor. These preset hydraulic parameters support either one-way or two-way flow. The joystick sliding switches allow modulated control of the work tool.
- The Medium Pressure Function Valve provides proportional flow that is ideal for rotating tools.
- A feature for the D Series Material Handlers is the optional second High Pressure Valve. In combination with the Multi-Combined Valve, it provides the possibility to operate the machine with work tools or in applications requiring a third auxiliary hydraulic function.

Stick Regeneration Circuit

The Stick Regeneration Circuit increases efficiency and helps increase controllability for higher productivity and lower operating costs.

Hydraulic Snubbers

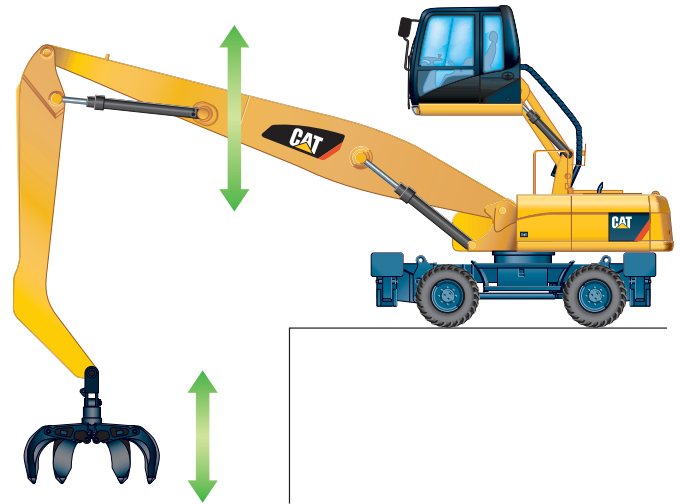
Caterpillar integrates its cylinder snubber technology into all Wheel Material Handler boom, stick and hydraulic cab riser cylinders. These snubbers help cushion shocks, reduce sound and increase cylinder life.

SmartBoom™

Reduces stress and vibrations transmitted to the machine and provides a more comfortable environment.

SmartBoom™

It allows the operator to fully concentrate on production. The unique Cat® SmartBoom™ significantly enhances operator comfort and job efficiency. Loading is more productive and more fuel efficient as the return cycle is reduced while the boom down function does not require pump flow.



Environmentally Responsible Design

The D Series Material Handlers help build a better world and preserve the fragile environment.

Fuel Efficiency

The Material Handlers are designed for outstanding performance with high fuel efficiency. This means more work done in a day, less fuel consumed and minimal impact on our environment.

Low Exhaust Emissions

The Cat® C6.6 engine meets EPA Tier 3 emissions regulations while offering increased performance, reliability and reduced fuel consumption and sound levels.

Quiet Operation

Operator and spectator noise levels are extremely low as a result of the variable speed fan and remote cooling system.

Biodegradable Hydraulic Oil

The optional biodegradable hydraulic oil (Cat BIO HYDO Advanced HEEST™) is formulated to provide excellent high-pressure and high temperature characteristics, and is fully compatible with all hydraulic components. Cat BIO HYDO Advanced HEEST™ is fully decomposed by soil or water microorganisms, providing a more environmentally sound alternative to mineral-based oils.

Fewer Leaks and Spills

Lubricant fillers and drains are designed to minimize spills. Cat O-Ring Face Seals, Cat XT™ Hose and hydraulic cylinders are all designed to help prevent fluid leaks that can reduce the machine performance and cause harm to the environment.

Longer Service Intervals

Working closely with your Cat dealer can help extend service intervals for engine oil, hydraulic oil, axle oil and coolant. Meaning fewer required fluids and fewer disposal, all adding up to lower operating costs.

Operator Comfort

The interior layout maximizes operator space, provides exceptional comfort and reduces operator fatigue.



Interior Operator Station

Visibility and ergonomics are some of the many features of the D Series Material Handler Operator Station. The cab provides maximum space and is designed for simplicity and functionality. Frequently used switches are centralized and are situated on the right-hand switch console. The left-hand seat console controls the dozer blade and/or outriggers, and is tiltable for easy access to the cab. The fully automatic climate control adjusts temperature and air flow for exceptional operator comfort. Other features include a cigar lighter, ashtray, drink/bottle holder, magazine rack and integrated mobile phone holder.

Cab Construction

The exterior design uses thick steel tubing along the bottom perimeter of the cab, improving the resistance to fatigue and vibration. This design allows the falling object guards to be bolted directly to the cab. Interior noise levels are substantially reduced due to the cab shell being attached to the frame with rubber mounts that limit vibration and sound transmitted from the frame.

Viewing Area

To maximize visibility, all glass is affixed directly to the cab, eliminating the use of window frames. Choice of fixed or easy-to-open split front windshields meet operator preference and application conditions.

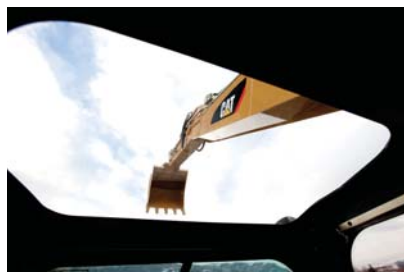
- The fixed front windshield comes with high-impact resistant, laminated glass.
- The 70/30 split front windshield opens with the upper portion able to be stored out of the way above the operator. The lower front windshield features a rounded design to maximize downward visibility and improves wiper coverage. This windshield option also features the one-touch action release system.
- The roof of the cab provides an additional viewing pane with a skylight for added upward visibility. Direct sunlight is diverted with the retractable sunshield.

Heated Mirrors

Another feature is electrically heated mirrors, increasing safety and visibility in cold conditions.

Wipers

The parallel wiper system maximizes visibility in poor weather conditions. The wiper virtually covers the entire front windshield, cleaning the operator's immediate line of sight.



Monitor

The new compact color monitor displays information in the local language that is easy to read and understand. Functions include the following:

- Two times five programmable “quick access” buttons for one-touch selection of favorite functions.
- Filter and oil change warnings displayed when the number of hours reaches the maintenance interval.
- Tool select functionality, allowing the operator to select up to ten pre-defined hydraulic work tools.
- Travel motor retarder selection to choose between three levels of aggressiveness in braking once the travel pedal is released.
- Rear camera viewing capabilities from the standard camera mounted on the counterweight.

Deluxe Seat

The optional deluxe seat, equipped with an active seat climate system, improves operator comfort. Cooled air flows through the seat cushions to reduce body perspiration. On cold days, a two-step seat heater keeps the operator warm and comfortable. The fully adjustable seat with adjustable lumbar support automatically adjusts to the driver's weight providing a more relaxed and comfortable environment.

Lunch Box

A large storage compartment is located behind the operator's seat. The compartment provides sufficient room to store items such as a lunch box. A cover secures the contents during machine operation.

Foot Pedals

Two-way pedals for travel and auxiliary circuits provide increased floor space, reducing the need to change positions. The foot pedal for auxiliary high-pressure circuit can be locked in the off position and used as a footrest for greater operator comfort.

Cat Standard Rearview Camera

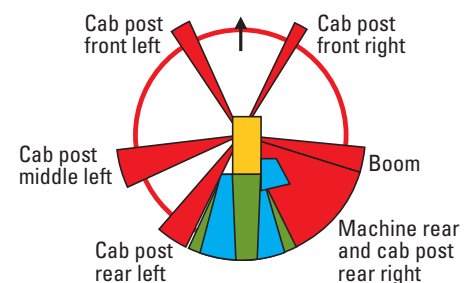
The rearview camera displays on the operator monitor. Together with best-in-class visibility to the front, up, left and right, the rearview camera ensures the safe operation of the machine.

Machine Security

An optional Machine Security System is available from the factory. This system controls who can operate the machine when, and utilizes specific keys to prevent unauthorized machine use.



Field of Vision



Legend:

Red: limitations due to cab post and/or boom

Blue: additional visibility due to mirrors

Green: additional visibility due to rearview camera



Elevated Cab

Hydraulic cab riser is available to maximize viewing to all sides of the machine.

Hydraulic Cab Riser

The Hydraulic Cab Riser (HCR) design provides the most suitable solution when high flexibility in cab height is needed. Main features of the hydraulic riser include the following:

- **Stability** – The lift arms on the HCR are a wide and deep box-sectioned design with improved top and bottom links for greater cab stability. Further stability is achieved with the help of the retractable hydraulic cylinders used to raise the cab.
- **Speed** – Two heavy-duty hydraulic cylinders provide quick and controlled up and down travel.
- **Comfort** – The parallelogram design of the linkage allows the cab to remain level at all ranges of motion. HCR movement is also slowed as the cab reaches the end of the riser stroke, eliminating the effects of a sudden start/stop.
- **Safety** – In the event of a hydraulic malfunction, the cab can be lowered using either a lever inside the cab or one on the frame at ground level.

Bottom Position (1)

The bottom position is used for shipping and travel, allowing for safer transporting.

Top Position (2)

The top position raises the cab by 2400 mm (94.5 in). This provides optimal viewing for all material handling jobs.

Undercarriage and Drive Line

Undercarriage and axle design provides maximum strength, flexibility and mobility on wheels.

Undercarriage Options

Effective hydraulic line routing, transmission protection and heavy-duty axles make the Cat undercarriages perfect for material handler applications. The D Series M322D MH comes with the option of three different undercarriages in order to provide the greatest stability while performing your material handler jobs.

- **Material Handling** – The Material Handling undercarriage with four welded outriggers is ideal for the extra stability needed, especially when using a Hydraulic Cab Riser.
- **Material Handling with Dozer Blade** – An optional expansion to the Material Handling Undercarriage described above with an additional Dozer Blade mounted ahead of the front stabilizers to be used to push material commonly encountered in waste and millyard applications.
- The standard undercarriage allows for different kinds of stabilizers to be attached to the front and rear of the machine.

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 solution minimizes the rocking effect associated with working free on wheels.

Drive Line Concept

The M322D MH driveline design effectively utilizes the engine torque and power to provide a comfortable ride with improved smoothness, hydraulic retarding, and gear shifting commonly used during travel between material handling jobs.

Ground Clearance

A compact undercarriage design provides the M322D MH with optimum ground clearance during travel.





Booms and Sticks

Improved strength and kinematics help to bring higher production and efficiency to all jobs.

MH Booms and Sticks

The MH booms have been designed to handle increased lifting capacities. The stick range offers leading side plates to maximize the protection of hydraulic lines. The lines are fitted in between the two side plates offering protection from damage. Multiple boom and stick options allow you to pick the best match for your job.

MH Booms

A specially designed MH boom is available to meet the functionality requirements demanded in material handling applications. The boom arrangements include high pressure hydraulic lines for opening and closing functionality and medium pressure lines for implement rotation.

M322D MH Sticks

Three options of MH sticks are available for the M322D MH, all equipped with high and medium pressure auxiliary lines. The 4900 mm (193 in) Drop Nose Stick offers the reaching and lifting capabilities required for typical MH applications, while the 5900 mm (232 in) Long Drop Nose Stick is ideal when maximum reach is necessary. The 4800 mm (189 in) Straight Stick is the best solution when additional work tool functionality is needed.

Special Applications

The M322D MH can be further outfitted with additional boom and stick options (see Optional Equipment), offering the ability to combine the material handler's hydraulic cab riser with traditional excavator functionality. This combination has been proven in transfer station, mining, and millyard applications.

Versatility

A wide variety of optional factory-installed attachments are available to enhance performance and improve job site management.

Tool Control

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.

Orange Peel Grapple

The most common tool for material handling applications, this grapple is available in a range of sizes and provides a solution for a variety of material types.

Magnet Generator

The solid state generator set system is being introduced to enable the M322D MH to power scrap magnets up to 1448 mm (57 in) diameter as well as work with the popular orange peel grapples used in scrap handling. The versatility to work with either a magnet or grapple enables customers to use these machines in any part of their scrap yard application. The patented Caterpillar system provides unmatched performance, reliability, and versatility compared to competitors' equipment, keeping customer recycling operations more productive and profitable.

Joystick Steering

The unique joystick steering option enables an operator to reposition the machine while traveling in first gear by the use of the slider switch on the right joystick. This enables the operator to keep both hands on the joysticks while simultaneously moving the implements and traveling. The operator can do more precise work faster with increased safety around the machine.

Working Modes

Two selectable working modes are available to choose from in order to 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.

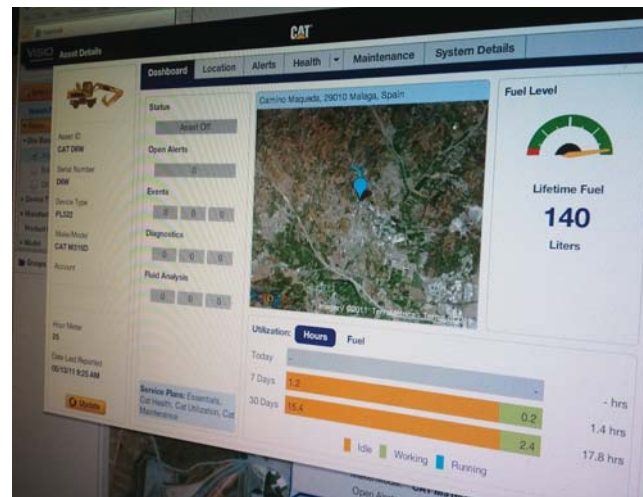
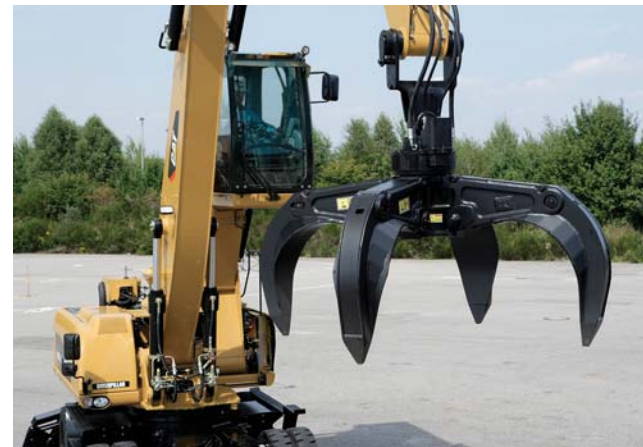
Automatic Travel Mode

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

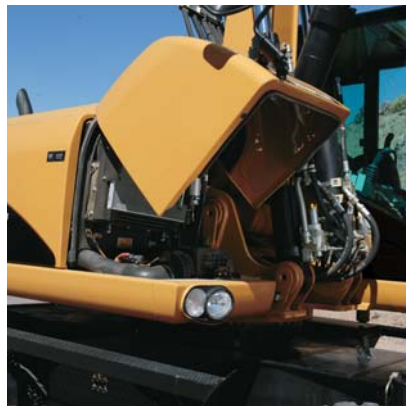
Product Link

Product Link allows remote monitoring of the machine, using a powerful telemetric system to transmit needed information to the customer and the dealer via a secure, web-based application, VisionLink™.

Critical information, such as event and diagnostic codes, is readily accessible, as are machine statistics, such as hour-meter reading, fuel consumption and idle time. Mapping functions include location and geo-fencing, which assist in servicing operations and in preventing unauthorized machine use. With Product Link, the customer and the dealer have an invaluable tool for more efficiently managing machines and fleets.



Serviceability and Complete Customer Support



Ground Level Maintenance

Caterpillar designed its D Series Material Handlers with the operator and service technician in mind. Gull-wing doors, with pneumatically-assisted lift cylinders, effortlessly lift up to allow critical maintenance to be performed quickly and efficiently while maintaining operator safety.

Extended Service Intervals

The D Series Material Handler service and maintenance intervals have been extended to reduce machine service time, increase machine availability and reduce operating costs. Using S·O·SSM Scheduled Oil Sampling analysis, hydraulic oil change intervals can be extended up to 6,000 hours.

Engine Oil

Cat engine oil is formulated to optimize engine life and performance. The specially formulated oil is more cost effective and increases engine oil change interval to 500 hours, providing industry leading performance and savings.

Air Filters

Cat air filters eliminate the use of service tools, reducing maintenance time. The air filter features a double-element construction with wall flow filtration in the main element and built-in mini-cyclone precleaners for superior cleaning efficiency. The air filters are constantly monitored for optimum performance. If airflow becomes restricted, a warning is displayed by the way of the in-cab monitor.

Capsule Filter

The hydraulic return filter, a capsule filter, prevents contaminants from entering the system when the hydraulic oil is changed.

Fuel Filters

Cat high efficiency fuel filters with a Stay-Clean ValveTM features a special media that removes more than 98% of particles, increasing fuel injector life. Both the primary and secondary fuel filters are located in the engine compartment and can be easily changed from ground level.

Water Separator

The D Series is equipped with a primary fuel filter with water separator located in the engine compartment. For ease of service, the water separator can be easily accessed from ground level.

Fuel Tank Drain

The durable, corrosion-free tank has a remote drain located at the bottom of the upper frame to remove water and sediment. The tank drain with hose connection allows simple, spill-free fluid draining.

Simplified and easy maintenance save you time and money.
Cat® dealer services help you operate longer with lower costs.

Front Compartment

The front compartment hood can be opened vertically, providing outstanding ground level access to the batteries, air-to-air aftercooler, air conditioner condenser and the engine air filter.

Swing-out Air Conditioner Condenser

The air conditioning condenser swings out horizontally to allow complete cleaning on both sides as well as excellent access to the air-to-air aftercooler.

Scheduled Oil Sampling

Caterpillar has specially developed S-O-SSM Oil Sampling Analysis to help ensure better performance, longer life and increased customer satisfaction. This thorough and reliable early warning system detects traces of metals, dirt and other contaminants in your engine, axle and hydraulic oil. It can predict potential trouble avoiding costly failures. Your Cat dealer can give you results and specific recommendations shortly after receiving your sample.

Engine Inspection

The engine can be accessed from both ground level and the upper structure. The longitudinal layout ensures that all daily inspection items can be accessed from ground level.

Anti-Skid Plates

They cover the top of the steps and upper structure to help prevent slipping during maintenance. The Anti-Skid plates reduce the accumulation of mud on the upper structure, improving the cleanliness and safety.

Easy to Clean Coolers

Flat fins on all coolers reduce clogging, making it easier to remove debris. The main cooling fan and air conditioner condenser are both hinged for easier cleaning.

Remote Greasing Blocks

For those hard to reach locations, remote greasing blocks for the swing bearing and front-end-attachments have been provided to reduce maintenance time. For the undercarriage, two remote blocks provide easy access for greasing the oscillating axle and, as an option, the dozer blade.

Handrails and Steps

Large handrails and steps assist the operator in climbing on and off the machine.

LED Rear Lights

Standard Light Emitting Diode (LED) rear lights provide increased visibility on the job site and longer life.



M322D MH Wheel Material Handler Specifications

Engine

Engine Model	Cat® C6.6 with ACERT™ Technology	
Ratings	2,000 rpm	
Gross Power	129 kW	173 hp
Net Power		
ISO 9249	123 kW	165 hp
EEC/80/1269	123 kW	165 hp
Bore	105 mm	4.13 in
Stroke	127 mm	5 in
Displacement	6.6 L	403 in ³
Cylinders	6	
Maximum Torque at 1,400 rpm	750 N·m	553 lb ft
<ul style="list-style-type: none"> EPA Tier 3 compliant. Full engine net power up to 3000 m (9,843 ft) altitude. 		

Hydraulic System

Tank Capacity	225 L	59 gal
System	350 L	92 gal
Maximum Pressure		
Implement Circuit		
Normal	350 bar	5,076 psi
Heavy Lift	375 bar	5,439 psi
Travel Circuit	350 bar	5,076 psi
Auxiliary Circuit		
High Pressure	350 bar	5,076 psi
Medium Pressure	200 bar	2,901 psi
Swing Mechanism	340 bar	4,931 psi
Maximum Flow		
Implement/Travel Circuit	350 L/min	92 gal/min
Auxiliary Circuit		
High Pressure	250 L/min	66 gal/min
Medium Pressure	50 L/min	13 gal/min
Swing Mechanism	112 L/min	30 gal/min

Cab/FOGS

- Cab with Falling Object Guard Structure (FOGS) meets ISO 10262.

Weights

MH Boom		
Rear Dozer Only	20 400 kg	44,974 lb
Rear Dozer, Front Outriggers	21 600 kg	47,620 lb
Front and Rear Outriggers	21 850 kg	48,171 lb
With MH Undercarriage	22 900 kg	50,486 lb
With MH Undercarriage and Push Blade	23 600 kg	52,029 lb
VA Boom		
Rear Dozer Only	20 700 kg	45,636 lb
Rear Dozer, Front Outriggers	21 900 kg	48,281 lb
Front and Rear Outriggers	22 150 kg	48,832 lb
With MH Undercarriage	23 200 kg	51,147 lb
With MH Undercarriage and Push Blade	23 900 kg	52,690 lb
One-Piece Boom		
Rear Dozer Only	20 050 kg	44,203 lb
Rear Dozer, Front Outriggers	21 250 kg	46,848 lb
Front and Rear Outriggers	21 500 kg	47,399 lb
With MH Undercarriage	22 550 kg	49,714 lb
With MH Undercarriage and Push Blade	23 250 kg	51,257 lb
Sticks		
MH Straight	1100 kg	2,425 lb
MH Drop Nose Short	910 kg	2,006 lb
MH Drop Nose Long	1080 kg	2,381 lb
Digging Short	650 kg	1,433 lb
Digging Medium	700 kg	1,543 lb
Digging Long	780 kg	1,720 lb
MH Push Blade (with MH Undercarriage)	675 kg	1,488 lb
Dozer Blade	920 kg	2,028 lb
Outriggers	1260 kg	2,778 lb
Counterweights		
Standard	4400 kg	9,700 lb
Optional	5400 kg	11,905 lb

- M322D HCR – Machine weight with Hydraulic Cab Riser, medium stick/MH 5.9 m stick, 4400 kg (9,700 lb) counterweight, with operator and full fuel tank, without work tool. Weight varies depending on configuration.

Swing Mechanism

Swing Speed	9 rpm	
Swing Torque	56 kN·m	41,303 lb ft

Transmission

Forward/Reverse		
1st Gear	7 km/h	4 mph
2nd Gear	25 km/h	16 mph
Creeper Speed		
1st Gear	3 km/h	2 mph
2nd Gear	12 km/h	7 mph
Drawbar Pull	112 kN	25,179 lb
Maximum Gradeability	52%	

Tire Options

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

Undercarriage

Ground Clearance	380 mm	15 in
Maximum Steering Angle	35°	
Oscillation Axle Angle	± 6°	
Minimum Turning Radius		
Standard Axle		
Outside of Tire	6800 mm	22 ft 4 in
End of VA Boom	7800 mm	25 ft 7 in
End of One-Piece Boom	9300 mm	30 ft 6 in

Service Refill Capacities

Fuel Tank Capacity	385 L	102 gal
Cooling	37 L	9.8 gal
Engine Crankcase	15 L	4 gal
Rear Axle Housing (Differential)	14 L	3.7 gal
Front Steering Axle (Differential)	11 L	2.9 gal
Final Drive	2.5 L	0.7 gal
Powershift Transmission	2.5 L	0.7 gal

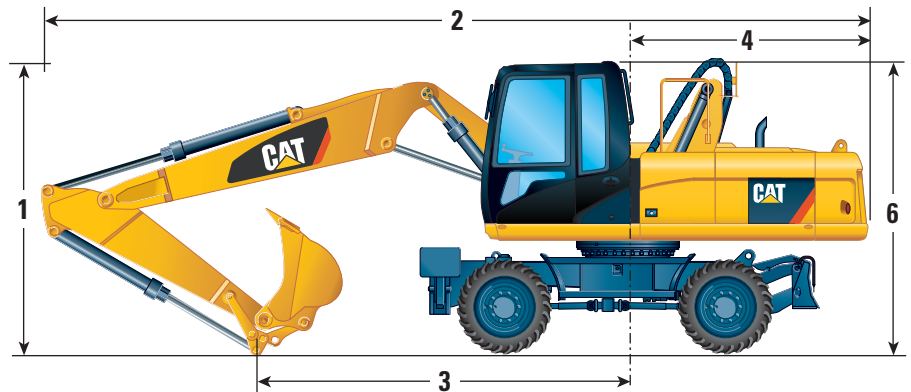
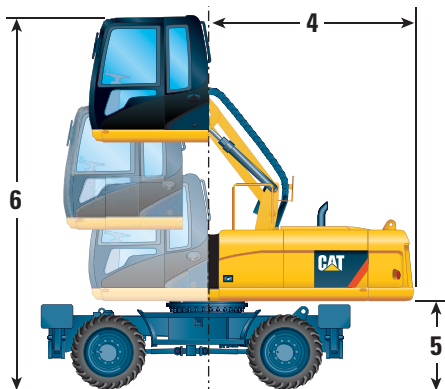
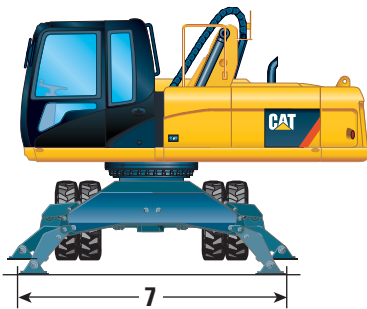
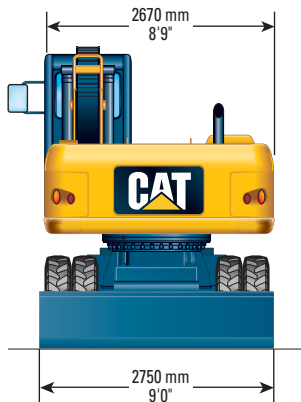
Sound Levels

Exterior Sound

- The labeled spectator sound power level measured according to the test procedures and conditions specified in 2000/14/EC is 103 dB(A).

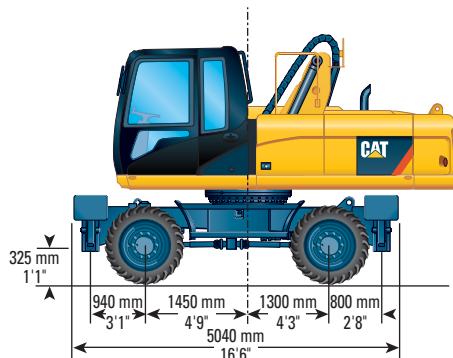
Dimensions with Standard Undercarriage

All dimensions are approximate.

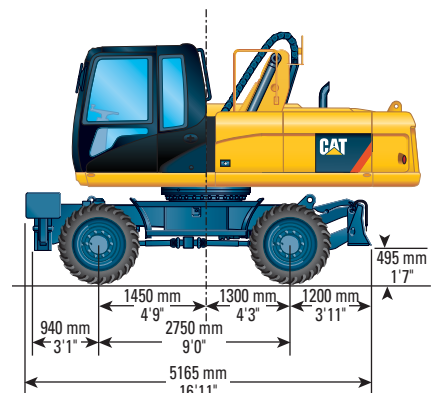


	VA Boom		One-Piece Boom	
	mm	ft/in	mm	ft/in
1 Shipping Height				
2200 mm (7'3") Stick	3350	11'0"	3350	11'0"
2500 mm (8'2") Stick	3350	11'0"	3350	11'0"
2900 mm (9'6") Stick	3350	11'0"	3350	11'0"
2 Shipping Length				
2200 mm (7'3") Stick	9550	31'4"	9750	32'0"
2500 mm (8'2") Stick	9550	31'4"	9720	31'11"
2900 mm (9'6") Stick	9540	31'4"	9720	31'11"
3 Support Point				
2200 mm (7'3") Stick	4380	14'4"	4270	14'0"
2500 mm (8'2") Stick	3830	12'7"	3810	12'6"
2900 mm (9'6") Stick	3530	11'7"	3440	11'3"
4 Tail Swing Radius	2820	9'3"	2820	9'3"
5 Counterweight Clearance	1310	4'4"	1310	4'4"
6 Cab Height				
With Hydraulic Cab Riser (Lowered)	3240	10'8"	3240	10'8"
With Hydraulic Cab Riser (Raised)	5640	18'6"	5640	18'6"
7 Stabilizer Width on Ground	3960	13'0"	3960	13'0"

Undercarriage with 2 sets of outriggers



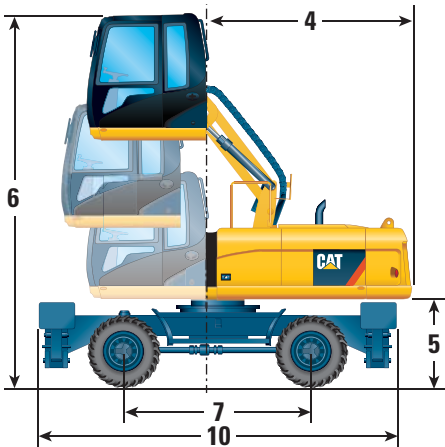
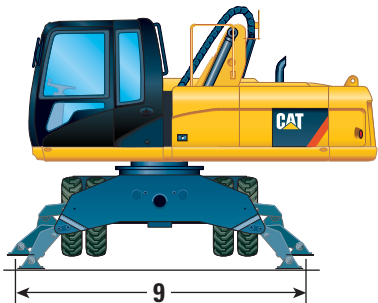
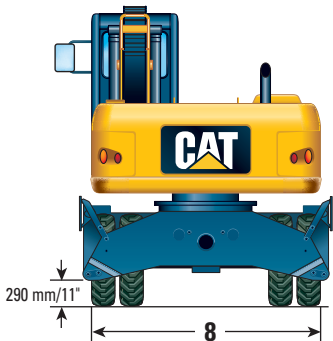
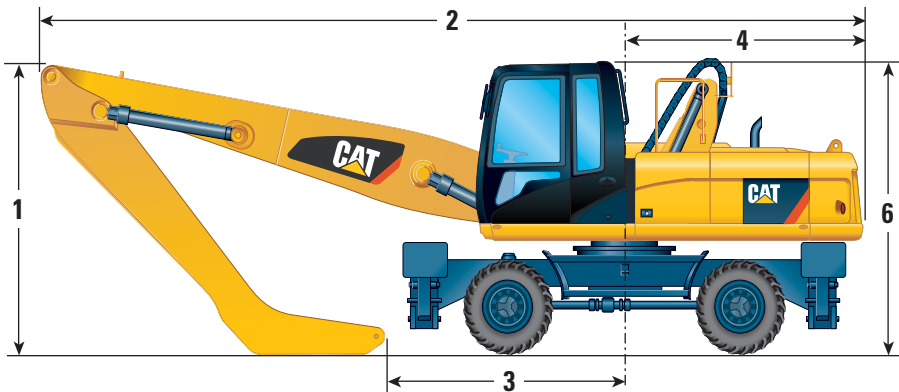
Undercarriage with 1 set of outriggers and dozer



M322D MH Wheel Material Handler Specifications

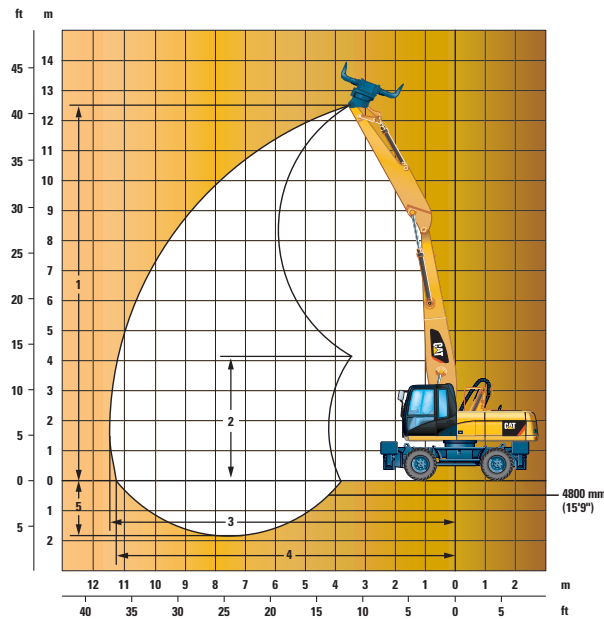
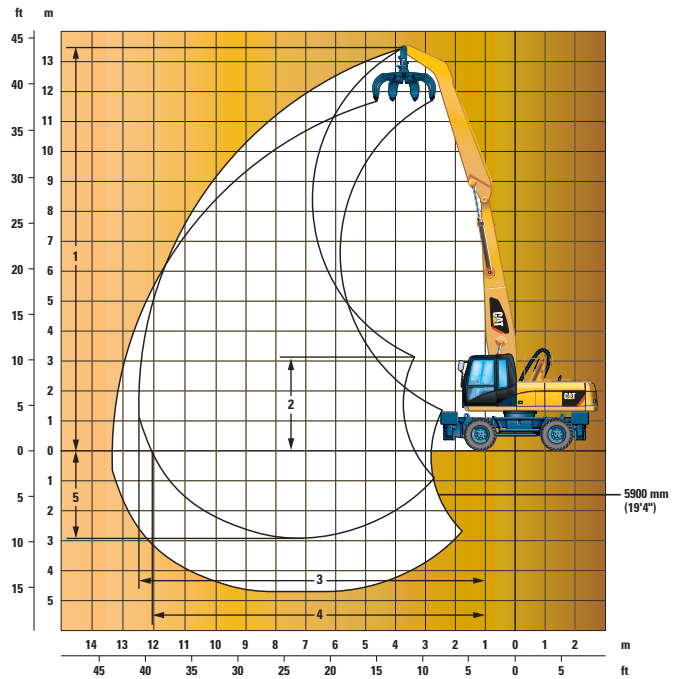
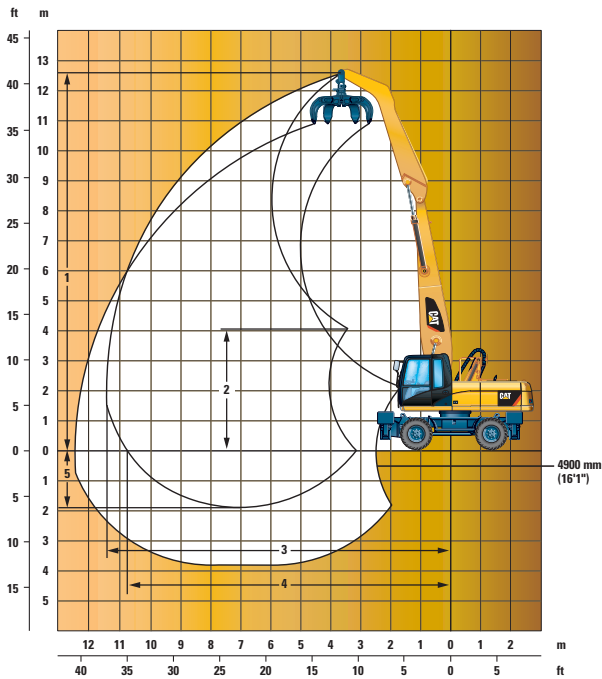
Dimensions with MH Undercarriage

All dimensions are approximate.



	mm	ft/in
1 Shipping Height		
4800 mm (15'9") Straight Stick	3410	11'2"
4900 mm (16'1") Drop Nose Stick	3410	11'2"
5900 mm (19'4") Drop Nose Stick (Removed)	3350	11'0"
5900 mm (19'4") Drop Nose Stick (Installed)	5100	16'8"
2 Shipping Length		
4800 mm (15'9") Straight Stick	9870	32'5"
4900 mm (16'1") Drop Nose Stick	9870	32'5"
5900 mm (19'4") Drop Nose Stick (Removed)	9930	32'7"
5900 mm (19'4") Drop Nose Stick (Installed)	15 130	49'8"
3 Support Point		
4800 mm (15'9") Straight Stick	3250	10'8"
4900 mm (16'1") Drop Nose Stick	15 010	49'3"
4 Tail Swing Radius	2820	9'3"
5 Counterweight Clearance	1310	4'4"
6 Cab Height		
With Hydraulic Cab Riser (Lowered)	3240	10'8"
With Hydraulic Cab Riser (Raised)	5640	18'6"
7 Wheel Base	2750	9'0"
8 Undercarriage Width	2990	9'10"
9 Stabilizer Width on Ground	4360	14'4"
10 Undercarriage Length	5250	17'3"

Working Ranges



Undercarriage Material Handling

	MH Drop Nose 4900 mm (16'1")		MH Drop Nose 5900 mm (19'4")		MH Straight Stick 4800 mm (15'9")	
Boom Length	6800 mm	22'4"	6800 mm	22'4"	6800 mm	22'4"
1 Maximum Height	12 500 mm	41'0"	13 300 mm	43'8"	12 430 mm	40'10"
2 Minimum Dump Height	4030 mm	13'3"	3090 mm	10'2"	4120 mm	13'6"
3 Maximum Reach	11 530 mm	37'10"	12 480 mm	41'0"	11 430 mm	37'6"
4 Maximum Reach at Ground Level	10 850 mm	35'7"	12 050 mm	39'7"	11 280 mm	36'0"
5 Maximum Depth	1920 mm	6'4"	2920 mm	9'7"	1820 mm	6'0"

M322D MH Wheel Material Handler Specifications

Work Tools Matching Guide

Without Quick Coupler	Boom		6800 mm (22'4")					
	Undercarriage		MH			Standard		
	Stick Length		4900 mm (16'1")	5900 mm (19'4")	4800 mm (15'9")	4900 mm (16'1")	5900 mm (19'4")	4800 mm (15'9")
360° Rotatable Shears*	S325B, S340B							
Multi-Grapples	G315B	D, R	×	×		×	×	
Orange Peel Grapples (5 tines)	GSH15B	400 L, 500 L, 600 L (0.53 yd³, 0.66 yd³, 0.79 yd³)						
		800 L (1.05 yd³)						
	GSH20B	600 L (0.79 yd³)						
		800 L (1.05 yd³)					×	
		1000 L (1.3 yd³)				×	×	×
Orange Peel Grapples (4 tines)	GSH15B	400 L, 500 L, 600 L (0.53 yd³, 0.66 yd³, 0.79 yd³)						
		800 L (1.05 yd³)						
	GSH20B	600 L (0.79 yd³)						
		800 L (1.05 yd³)						
		1000 L (1.3 yd³)						×

* Boom Mounted

	360° Working Range
×	Not Compatible
	Maximum Material Density 1800 kg/m³ (3,000 lb/yd³)
	Maximum Material Density 1200 kg/m³ (2,000 lb/yd³)

Lift Capacities

All values are in kg, without bucket and without QC, with counterweight (5400 kg/11,905 lb), heavy lift on.

Undercarriage
Standard

Boom
6800 mm (22'4")

Stick
5900 mm (19'4")

Metric Units

Load point height	Load over front		Load over rear		Load over side		Load at maximum reach (stick/nose/bucket pin)		Metric Units	
	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	10.5 m	12.0 m		m	
Undercarriage configuration										
2 sets stab down										
Rear dozer up			*7450	*7450					*5700	*5700
Rear dozer down			7050	5850					5300	4350
Dozer and stab down			*7450	5550					*5700	4150
2 sets stab down										
Rear dozer up				*7250	6500				*4950	4800
Rear dozer down				5050	4150				3700	3050
Dozer and stab down				*7500	4000				*4950	2900
2 sets stab down										
Rear dozer up				*7500	6550				*4600	4100
Rear dozer down				5100	4250				*4600	3900
Dozer and stab down				*7500	5650				*4600	2050
2 sets stab down										
Rear dozer up				*7550	6700				*4400	4100
Rear dozer down				5100	4200				2550	2050
Dozer and stab down				*7550	5600				*4400	1950
2 sets stab down										
Rear dozer up				*7750	6400				4250	3750
Rear dozer down				5000	4100				2300	1850
Dozer and stab down				*7750	5500				4050	2850
2 sets stab down										
Rear dozer up				*8050	6250				3950	3500
Rear dozer down				6850	5650				2150	1700
Dozer and stab down				*9550	5350				3800	2400
2 sets stab down										
Rear dozer up				*10300	6000				3800	3350
Rear dozer down				6450	3700				2050	1600
Dozer and stab down				*10300	5500				3300	1500
2 sets stab down										
Rear dozer up				*10300	6200				3800	3300
Rear dozer down				6000	3300				2000	1550
Dozer and stab down				*10850	5900				3600	2250
2 sets stab down										
Rear dozer up				*10450	6900				3450	2800
Rear dozer down				4100	2500				1650	1350
Dozer and stab down				*10450	5800				3800	2350
2 sets stab down										
Rear dozer up				*10450	6700				3450	2800
Rear dozer down				4200	2400				1650	1350
Dozer and stab down				*10450	5800				3800	2350
2 sets stab down										
Rear dozer up				*10450	6700				3450	2800
Rear dozer down				4200	2400				1650	1350
Dozer and stab down				*10450	5800				3800	2350

* 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

Undercarriage	Boom	Stick	English Units
Standard	6800 mm (22'4")	5900 mm (19'4")	

* 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 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 bucket and without QC, with counterweight (5400 kg/11,905 lb), heavy lift on.

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

Undercarriage

Boom




















Stick

Metric Units

Standard

6800 mm (22'4")

4900 mm (16'1")

	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	*6350	3750	
	Dozer and stab down					*9200	7750		*6350	5300							*6350	*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				4200	2050	
	Dozer and stab down					*9700	7650		*8200	5350			6250	4000			4850	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	3900	1900	
	Dozer and stab down		*13 150	11 700		*10 300	7350		8250	5200			6150	3950			4850	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	3750	1800	
	Dozer and stab down		*14 550	10 850		*10 850	6950		8000	5000			6050	3800			4750	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	3700	1750	
	Dozer and stab down		*15 050	10 050		*11 050	6550		7750	4800			5900	3700			4700	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.

M322D MH Wheel Material Handler Specifications

Lift Capacities

All values are in lb, without bucket and without QC, with counterweight (5400 kg/11,905 lb), heavy lift on.

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

Undercarriage

Boom





















Stick

English Units

Standard

6800 mm (22'4")

4900 mm (16'1")

	Undercarriage configuration	15.0 ft			20.0 ft			25.0 ft			30.0 ft			35.0 ft						ft
																				
35.0 ft	2 sets stab down				*19,500	*19,500	19,500										*14,200	*14,200	*14,200	23.95
	Rear dozer up				15,000	12,400	10,600										11,100	9,100	7,800	
	Rear dozer down					*19,500	11,800											*14,200	8,700	
	Dozer and stab down					*19,500	16,600											*14,200	12,300	
30.0 ft	2 sets stab down				*20,300	*20,300	19,800	*17,700	16,700	13,700							*12,700	*12,700	10,600	29.07
	Rear dozer up				15,200	12,600	10,800	10,600	8,700	7,500							8,200	6,700	5,700	
	Rear dozer down					*20,300	12,000		16,600	8,300								*12,700	6,400	
	Dozer and stab down					*20,300	16,800		*17,700	11,700								*12,700	9,000	
25.0 ft	2 sets stab down				*20,400	*20,400	19,700	*17,600	16,700	13,700	14,100	12,400	10,200				*12,000	10,700	8,800	32.64
	Rear dozer up				15,200	12,600	10,700	10,600	8,700	7,500	7,800	6,400	5,500				6,800	5,500	4,600	
	Rear dozer down					*20,400	12,000		16,700	8,400		12,200	6,100					10,600	5,200	
	Dozer and stab down					*20,400	16,800		*17,600	11,700		13,500	8,700					11,700	7,500	
20.0 ft	2 sets stab down				*21,100	*21,100	19,300	*17,900	16,500	13,500	14,000	12,300	10,100	10,900	9,600	7,800	10,800	9,500	7,800	35.10
	Rear dozer up				14,800	12,200	10,400	10,400	8,600	7,300	7,800	6,300	5,400	6,000	4,800	4,000	5,900	4,800	4,000	
	Rear dozer down					*21,100	11,600		16,500	8,200		12,200	6,100		9,400	4,600		9,300	4,600	
	Dozer and stab down					*21,100	16,400		*17,900	11,500		13,400	8,600		10,400	6,700		10,400	6,600	
15.0 ft	2 sets stab down	*28,500	*28,500	*28,500	*22,300	*22,300	18,700	*18,400	16,100	13,100	13,800	12,100	9,900	10,800	9,500	7,800	10,000	8,800	7,200	36.75
	Rear dozer up	22,400	18,300	15,300	14,200	11,600	9,900	10,100	8,200	7,000	7,600	6,200	5,200	5,900	4,800	4,000	5,500	4,400	3,700	
	Rear dozer down		*28,500	17,300		*22,300	11,100		16,100	7,900		12,000	5,900		9,300	4,500		8,600	4,200	
	Dozer and stab down		*28,500	25,200		*22,300	15,800		17,700	11,200		13,200	8,500		10,400	6,600		9,600	6,100	
10.0 ft	2 sets stab down	*31,400	*31,400	28,500	*23,500	22,300	17,800	18,100	15,700	12,700	13,600	11,900	9,700	10,700	9,400	7,700	9,600	8,400	6,800	37.63
	Rear dozer up	20,700	16,700	13,800	13,400	10,900	9,100	9,700	7,800	6,600	7,400	5,900	5,000	5,800	4,600	3,900	5,200	4,100	3,400	
	Rear dozer down		*31,400	15,700		22,500	10,300		15,600	7,500		11,700	5,700		9,200	4,400		8,200	3,900	
	Dozer and stab down		*31,400	23,400		*23,500	15,000		17,200	10,800		13,000	8,200		10,300	6,500		9,200	5,800	
5.0 ft	2 sets stab down	*32,600	*32,600	26,600	*24,000	21,400	17,000	17,600	15,200	12,200	13,300	11,600	9,400	10,600	9,300	7,500	9,400	8,300	6,700	37.83
	Rear dozer up	19,100	15,100	12,300	12,600	10,100	8,400	9,200	7,400	6,200	7,100	5,700	4,800	5,700	4,500	3,800	5,100	4,000	3,300	
	Rear dozer down		*32,600	14,200		21,500	9,600		15,100	7,000		11,400	5,400		9,100	4,300		8,100	3,800	
	Dozer and stab down		*32,600	21,700		23,800	14,200		16,700	10,300		12,700	8,000		10,100	6,400		9,100	5,700	
0.0 ft	2 sets stab down	*23,900	*23,900	*23,900	*22,900	20,700	16,300	17,100	14,800	11,800	13,000	11,400	9,200	10,400	9,200	7,400				
	Rear dozer up	18,000	14,100	11,400	12,000	9,500	7,900	8,900	7,100	5,900	6,900	5,500	4,600	5,600	4,400	3,700				
	Rear dozer down		*23,900	13,200		20,800	9,000		14,700	6,700		11,200	5,200		9,000	4,200				
	Dozer and stab down		*23,900	20,600		*22,900	13,600		16,300	10,000		12,500	7,800		10,000	6,300				
-5.0 ft	2 sets stab down				*19,800	*19,800	15,900	*15,600	14,500	11,600										
	Rear dozer up				11,700	9,200	7,500	8,700	6,800	5,700										
	Rear dozer down					*19,800	8,700		14,400	6,500										
	Dozer and stab down					*19,800	13,200		*15,600	9,700										

*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 bucket and without QC, with counterweight (5400 kg/11,905 lb), heavy lift on.

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

Undercarriage

Boom





















Stick

Metric Units

Standard

6800 mm (22'4")

4800 mm (15'9")

	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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M322D MH Wheel Material Handler Specifications

Lift Capacities

All values are in lb, without bucket and without QC, with counterweight (5400 kg/11,905 lb), heavy lift on.

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

Undercarriage				Boom				Stick				Undercarriage				English Units				
Standard				6800 mm (22'4")				4800 mm (15'9")												
	Undercarriage configuration	15.0 ft			20.0 ft			25.0 ft			30.0 ft			35.0 ft						
																				ft
35.0 ft	2 sets stab down				*18,800	*18,800	18,800										*13,900	*13,900	*13,900	23.43
	Rear dozer up				14,300	11,700	9,900										10,700	8,700	7,300	
	Rear dozer down					*18,800	11,100										*13,900	8,300		
	Dozer and stab down					*18,800	15,900										*13,900	12,000		
30.0 ft	2 sets stab down				*19,700	*19,700	19,100	*17,000	16,000	13,000							*12,400	*12,400	10,100	28.67
	Rear dozer up				14,600	12,000	10,100	9,900	8,000	6,800							7,600	6,100	5,100	
	Rear dozer down					*19,700	11,400		16,000	7,600							*12,400	5,800		
	Dozer and stab down					*19,700	16,200		*17,000	11,000							*12,400	8,500		
25.0 ft	2 sets stab down				*19,800	*19,800	19,000	*16,900	16,000	13,000	13,400	11,700	9,400				*11,600	10,200	8,200	32.28
	Rear dozer up				14,500	11,900	10,100	9,900	8,000	6,800	7,100	5,700	4,700				6,200	4,800	4,000	
	Rear dozer down					*19,800	11,300		16,000	7,600		11,500	5,400				10,000	4,600		
	Dozer and stab down					*19,800	16,100		*16,900	11,000		12,800	8,000				11,200	6,900		
20.0 ft	2 sets stab down				*20,500	*20,500	18,600	*17,100	15,800	12,800	13,300	11,600	9,400				10,300	8,900	7,200	34.78
	Rear dozer up				14,100	11,500	9,700	9,700	7,800	6,600	7,100	5,600	4,700				5,300	4,100	3,400	
	Rear dozer down					*20,500	10,900		15,700	7,500		11,400	5,300				8,800	3,900		
	Dozer and stab down					*20,500	15,700		*17,100	10,800		12,700	7,900				9,800	6,000		
15.0 ft	2 sets stab down	*27,900	*27,900	*27,900	*21,600	*21,600	17,900	*17,600	15,400	12,400	13,100	11,400	9,200	10,100	8,800	7,000	9,400	8,200	6,500	36.42
	Rear dozer up	21,600	17,500	14,500	13,400	10,900	9,100	9,300	7,500	6,200	6,900	5,400	4,500	5,200	4,000	3,300	4,800	3,700	3,000	
	Rear dozer down		*27,900	16,500		*21,600	10,300		15,300	7,100		11,200	5,100		8,600	3,800	8,000	3,500		
	Dozer and stab down		*27,900	24,400		*21,600	15,000		17,000	10,400		12,500	7,700		9,700	5,900	9,000	5,500		
10.0 ft	2 sets stab down	*30,600	*30,600	27,500	*22,700	21,500	17,000	17,300	14,900	11,900	12,800	11,100	8,900	10,000	8,700	6,900	9,000	7,800	6,200	37.30
	Rear dozer up	19,800	15,700	12,900	12,600	10,000	8,300	8,900	7,000	5,800	6,600	5,200	4,200	5,100	3,900	3,100	4,500	3,400	2,700	
	Rear dozer down		*30,600	14,800		*22,700	21,700	9,500		14,800	6,700		10,900	4,900		8,500	3,700	7,600	3,200	
	Dozer and stab down		*30,600	22,500		*22,700	14,200		16,400	10,000		12,200	7,500		9,500	5,800		8,600	5,100	
5.0 ft	2 sets stab down	*31,500	*31,500	25,500	*23,000	20,500	16,100	16,700	14,400	11,400	12,500	10,800	8,600	9,800	8,500	6,800	8,800	7,600	6,100	37.50
	Rear dozer up	18,000	14,000	11,300	11,700	9,200	7,500	8,400	6,600	5,400	6,300	4,900	4,000	4,900	3,800	3,000	4,400	3,300	2,600	
	Rear dozer down		*31,500	13,100		20,600	8,700		14,300	6,200		10,700	4,600		8,300	3,500		7,500	3,100	
	Dozer and stab down		*31,500	20,600		22,900	13,300		15,900	9,500		11,900	7,200		9,400	5,600		8,400	5,000	
0.0 ft	2 sets stab down	*22,600	*22,600	*22,600	*21,700	19,800	15,400	16,300	13,900	11,000	12,300	10,600	8,400	*9,500	8,400	6,700				
	Rear dozer up	16,900	13,000	10,300	11,100	8,600	6,900	8,000	6,200	5,000	6,100	4,700	3,800	4,800	3,700	2,900				
	Rear dozer down		*22,600	12,100		19,800	8,100		13,800	5,900		10,400	4,400		8,200	3,400				
	Dozer and stab down		*22,600	19,500		*21,700	12,600		15,500	9,100		11,700	7,000		9,300	5,500				
-5.0 ft	2 sets stab down				*18,500	*18,500	15,000	*14,400	13,700	10,800										
	Rear dozer up				10,700	8,300	6,600	7,800	6,000	4,800										
	Rear dozer down					*18,500	7,700			13,600	5,600									
	Dozer and stab down					*18,500	12,300			*14,400	8,900									

*Limited by hydraulic rather than tipping load.
























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Lift Capacities

All values are in kg, without bucket and without QC, with counterweight (5400 kg/11,905 lb), heavy lift on.















Metric Units

 Load point height		 Load over front		 Load over rear		 Load over side				 Load at maximum reach (sticknose/bucket pin)									
Undercarriage Special Application		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m				m	
																			
Boom 6800 mm (22'4")	12.0 m	All stabilizers up All stabilizers down				7000 *7450	5400 *7450									5300 *5700	4050 *5700	7.09	
	10.5 m	All stabilizers up All stabilizers down						5000 *7250	3900 *7250							3700 *4950	2850 *4950	8.91	
	9.0 m	All stabilizers up All stabilizers down						5100 *7500	3950 *7500	3750 *6750	2900 5700					3000 *4600	2250 4600	10.18	
	7.5 m	All stabilizers up All stabilizers down						5050 *7550	3950 *7550	3750 *6700	2900 5700	2850 5350	2150 4400			2550 *4400	1950 4000	11.11	
Stick 5900 mm (19'4")	6.0 m	All stabilizers up All stabilizers down						4950 *7750	3850 7550	3700 *6800	2850 5650	2850 5350	2150 4400			2300 *4300	1700 3600	11.76	
	4.5 m	All stabilizers up All stabilizers down				6800 *9550	5200 *9550	4800 *8050	3650 7350	3600 6750	2750 5500	2800 5250	2100 4300	2200 4250	1650 3500	2150 4150	1600 3400	12.20	
	3.0 m	All stabilizers up All stabilizers down			9950 *13 400	7400 *13 400	6400 *10 300	4850 10 200	4550 *8400	3450 7100	2600 6600	2700 5350	2000 5200	2200 4250	1600 3450	2050 4000	1500 3250	12.43	
	1.5 m	All stabilizers up All stabilizers down			9050 *14 700	6600 *14 700	5950 *10 850	4400 9700	4300 8500	3200 6850	3300 6400	2450 5200	2650 5100	1950 4150	2150 4150	1550 3400	2000 3950	1450 3200	12.48
	0.0 m	All stabilizers up All stabilizers down		*4050 *4050	*4050 *4050	8350 *14 700	5950 *14 700	5550 *10 800	4050 9250	4100 8250	3000 6600	3200 6250	2350 5050	2550 5000	1850 4050	2100 *4050	1500 3350		
	-1.5 m	All stabilizers up All stabilizers down			7950 *10 450	5600 *10 450	5300 *10 000	3850 8950	3950 *7850	2850 6450	3100 6150	2250 4950	2500 *4800	1800 4000					

Undercarriage
Special Application

Boom
6800 mm (22'4")















Stick
4900 mm (16'1")

	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							

Undercarriage
Special Application

Boom
6800 mm (22'4")

Stick
4800 mm (15'9")

	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.

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M322D MH Wheel Material Handler Specifications

Lift Capacities

All values are in lb, without bucket and without QC, with counterweight (5400 kg/11,905 lb), heavy lift on.

English Units

 Load point height		 Load over front		 Load over rear		 Load over side				 Load at maximum reach (sticknose/bucket pin)									
Undercarriage Special Application		10.0 ft		15.0 ft		20.0 ft		25.0 ft		30.0 ft		35.0 ft		40.0 ft				ft	
																			
Boom 6800 mm (22'4")	40.0 ft	All stabilizers up				14,900	11,500									12,400	9,500	22.31	
		All stabilizers down				*15,600	*15,600									*12,900	*12,900		
	35.0 ft	All stabilizers up						10,700	8,300							8,400	6,500	28.67	
		All stabilizers down						*15,400	*15,400							*11,100	*11,100		
	30.0 ft	All stabilizers up						10,900	8,500	8,000	6,200					6,700	5,100	33.07	
		All stabilizers down						*16,400	*16,400	*14,400	12,200					*10,200	*10,200		
	25.0 ft	All stabilizers up						10,900	8,500	8,100	6,200	6,100	4,600			5,700	4,300	36.22	
		All stabilizers down						*16,400	*16,400	*14,600	12,200	11,500	9,400			*9,700	8,900		
	20.0 ft	All stabilizers up						10,700	8,300	7,900	6,100	6,100	4,600			5,100	3,800	38.48	
		All stabilizers down						*16,800	16,300	14,700	12,100	11,400	9,400			*9,500	8,000		
	15.0 ft	All stabilizers up				14,600	11,200	10,300	7,900	7,700	5,900	6,000	4,500			4,700	3,500	39.96	
		All stabilizers down				*20,700	*20,700	*17,500	15,900	14,500	11,900	11,300	9,300			9,100	7,500		
	10.0 ft	All stabilizers up			21,500	16,000	13,800	10,400	9,800	7,500	7,400	5,600	5,800	4,300	4,700	3,400	4,500	3,300	40.78
		All stabilizers down			*29,000	*29,000	*22,300	21,900	*18,200	15,300	14,200	11,600	11,100	9,100	9,100	7,400	8,800	7,200	
	5.0 ft	All stabilizers up			19,500	14,200	12,800	9,500	9,300	7,000	7,100	5,300	5,700	4,200	4,600	3,300	4,400	3,200	40.94
		All stabilizers down			*31,800	*31,800	*23,500	20,800	18,300	14,700	13,800	11,200	10,900	8,900	9,000	7,300	8,700	7,100	
	0.0 ft	All stabilizers up	*9,300	*9,300	18,000	12,800	12,000	8,800	8,800	6,500	6,900	5,000	5,500	4,000					
		All stabilizers down	*9,300	*9,300	*31,900	*31,900	*23,400	19,900	17,800	14,200	13,500	10,900	10,800	8,800					
	-5.0 ft	All stabilizers up			17,100	12,100	11,500	8,300	8,500	6,200	6,600	4,800	5,400	3,900					
		All stabilizers down			*24,000	*24,000	*21,700	19,300	*16,900	13,800	13,300	10,700	*10,200	8,600					

Undercarriage















Special Application

Boom

6800 mm (22'4")

Stick

4900 mm (16'1")

		15.0 ft		20.0 ft		25.0 ft		30.0 ft		35.0 ft				ft
Undercarriage configuration														
35.0 ft	All stabilizers up			14,800	11,400							11,000	8,500	23.95
	All stabilizers down			*19,500	*19,500							*14,200	*14,200	
30.0 ft	All stabilizers up			15,100	11,700	10,500	8,200					8,100	6,200	29.07
	All stabilizers down			*20,300	*20,300	*17,700	16,100					*12,700	12,500	
25.0 ft	All stabilizers up			15,000	11,600	10,600	8,200	7,800	6,000			6,800	5,100	32.64
	All stabilizers down			*20,400	*20,400	*17,600	16,100	14,600	12,000			*12,000	10,400	
20.0 ft	All stabilizers up			14,700	11,300	10,400	8,000	7,800	5,900	6,000	4,500	6,000	4,500	35.10
	All stabilizers down			*21,100	*21,100	*17,900	15,900	14,500	11,900	11,300	9,300	11,200	9,200	
15.0 ft	All stabilizers up	22,100	16,600	14,100	10,700	10,100	7,700	7,600	5,800	5,900	4,500	5,500	4,100	36.75
	All stabilizers down	*28,500	*28,500	*22,300	22,300	*18,400	15,500	14,300	11,700	11,200	9,200	10,400	8,500	
10.0 ft	All stabilizers up	20,400	15,100	13,300	10,000	9,600	7,300	7,400	5,500	5,800	4,400	5,200	3,900	37.63
	All stabilizers down	*31,400	*31,400	*23,500	21,400	18,700	15,100	14,000	11,500	11,100	9,100	10,000	8,200	
5.0 ft	All stabilizers up	18,800	13,600	12,500	9,300	9,200	6,900	7,100	5,300	5,700	4,200	5,100	3,800	37.83
	All stabilizers down	*32,600	*32,600	*24,000	20,500	18,200	14,600	13,800	11,200	11,000	9,000	9,800	8,000	
0.0 ft	All stabilizers up	17,800	12,600	11,900	8,700	8,900	6,500	6,900	5,100	5,600	4,100			
	All stabilizers down	*23,900	*23,900	*22,900	19,800	17,700	14,200	13,500	11,000	*10,600	8,900			
-5.0 ft	All stabilizers up			11,600	8,400	8,600	6,300							
	All stabilizers down			*19,800	19,400	*15,600	14,000							

Undercarriage















Special Application

Boom

6800 mm (22'4")

Stick

4800 mm (15'9")

		15.0 ft		20.0 ft		25.0 ft		30.0 ft		35.0 ft				ft
Undercarriage configuration														
35.0 ft	All stabilizers up			14,200	10,800							10,700	8,000	23.43
	All stabilizers down			*18,800	*18,800							*13,900	*13,900	
30.0 ft	All stabilizers up			14,400	11,000	9,800	7,400					7,600	5,700	28.67
	All stabilizers down			*19,700	*19,700	*17,000	15,400					*12,400	12,100	
25.0 ft	All stabilizers up			14,400	10,900	9,900	7,500	7,100	5,300			6,200	4,500	32.28
	All stabilizers down			*19,800	*19,800	*16,900	15,400	13,900	11,300			*11,600	9,800	
20.0 ft	All stabilizers up			14,000	10,600	9,700	7,300	7,000	5,200			5,300	3,800	34.78
	All stabilizers down			*20,500	*20,500	*17,100	15,200	13,800	11,200			10,700	8,600	
15.0 ft	All stabilizers up	21,300	15,800	13,300	10,000	9,300	6,900	6,900	5,000	5,200	3,700	4,800	3,400	36.42
	All stabilizers down	*27,900	*27,900	*21,600	21,500	*17,600	14,800	13,600	11,000	10,500	8,500	9,800	7,900	
10.0 ft	All stabilizers up	19,500	14,100	12,500	9,200	8,800	6,500	6,600	4,800	5,100	3,600	4,500	3,200	37.30
	All stabilizers down	*30,600	*30,600	*22,700	20,500	17,900	14,300	13,300	10,700	10,400	8,300	9,300	7,500	
5.0 ft	All stabilizers up	17,700	12,500	11,600	8,400	8,400	6,000	6,300	4,500	5,000	3,500	4,400	3,100	37.50
	All stabilizers down	*31,500	*31,500	*23,000	19,600	17,300	13,800	13,000	10,400	10,200	8,200	*9,000	7,400	
0.0 ft	All stabilizers up	16,700	11,600	11,000	7,800	8,000	5,700	6,100	4,300	4,800	3,400			
	All stabilizers down	*22,600	*22,600	*21,700	18,800	*16,800	13,400	12,700	10,200	*9,500	8,100			
-5.0 ft	All stabilizers up			10,700	7,500	7,800	5,500							
	All stabilizers down			*18,500	18,400	*14,400	13,100							

*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.

M322D MH Wheel Material Handler Standard Equipment

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

Electrical

Alternator, 75 A

Lights

Boom working light

Cab interior light

Roading lights two front

Roading lights two LED modules rear

Rotating beacon on cab

Working lights, cab mounted
(front and rear)

Main shut-off switch

Maintenance free batteries

Signal/warning horn

Engine

Automatic engine speed control

Automatic starting aid

Cat C6.6 with ACERT Technology
EPA Tier 3 compliant

Fuel/water separator with level indicator

High ambient cooling 52° C

Hydraulics

Heavy lift mode

Load-sensing Plus hydraulic system

Manual work modes (economy, power)

Separate swing pump

Stick regeneration circuit

Operator Station

Adjustable armrests

Air conditioner, heater and defroster
with automatic climate control

Ash tray with cigarette lighter (24 volt)

Beverage cup/can holder

Bolt-on FOGS 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 mechanical suspension seat

Instrument panel and gauges

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, tiltable

Storage area suitable for a lunch box

Sunshade for windshield and skylight

Undercarriage

MH undercarriage

with four welded outriggers

Heavy-duty axles, advanced travel motor,
adjustable braking force

Oscillating front axle with remote greasing

Tires, 10.00-20 16 PR, solid rubber

Tool box in undercarriage

Second tool box for undercarriage

Two-piece drive shaft

Two-speed transmission

Other Equipment

Automatic swing brake

Counterweight, 4400 kg (9,700 lb)

Mirrors, frame and cab

Product Link ready

M322D MH Wheel Material Handler Optional Equipment

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

Auxiliary Controls and Lines

Auxiliary boom and stick lines
Anti-drift valves for bucket, stick, VA boom and tool control/multi-function circuits
Basic control circuits:
Single action
One-way, high pressure circuit, for hammering application
Medium pressure
Two-way, medium pressure circuit, for rotating or tilting of work tools
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
Second high pressure
Additional two-way, high pressure circuit, for tools requiring a second high or medium pressure function
Quick coupler control
Cat BIO HYDO Advanced HEEST™ biodegradable hydraulic oil
Generator with valve and priority function
Lowering control devices for boom and stick
SmartBoom™

Booms and Sticks

Material Handling boom (6800 mm/22'4")
Straight MH stick (4800 mm/15'9")
Drop nose MH stick
– 4900 mm/16'1"
– 5900 mm/19'4"
One-piece boom (5650 mm/18'6")
VA boom (5440 mm/17'10")
Sticks
– 2200 mm/7'3"
– 2500 mm/8'2"
– 2900 mm/9'6"

Electrical

Back-up alarm
Heavy-duty maintenance free batteries
Refueling pump

Operator Station

Adjustable hydraulic sensitivity
CD/MP3 radio (12V) at rear location including speakers and 12 V converter
Falling objects guard
Joystick steering
Seat, adjustable high-back
– air suspension (vertical)
– deluxe with headrest, air suspension (horizontal and vertical), two-step seat heater, automatic weight adjustments, ventilated seat cushions, pneumatically adjustable lumbar support
Travel speed lock
Vandalism guards
Visor for rain protection
Windshield
One-piece high impact resistant
70/30 split, openable

Undercarriage

MH undercarriage with four welded outriggers and front mounted blade
Standard undercarriage
Dozer blade, rear mounted
Outriggers, front and/or rear mounted
Spacer rings for tires

Other Equipment

Auto-lube system (implements and swing gear)
Cat Machine Security System
Cat Product Link
Counterweight, 5400 kg (11,905 lb)
Mirrors heated, frame and cab
Tires (see pg. 14)
Waste Handling Package

M322D MH Wheel Material Handler

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

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