M318D MH

Wheel Material Handler





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Engine Model Cat® C6.6 with
ACERT™ Technology
Net Power (ISO 9249) 124 kW 166 hp

Weights

Operating Weight	19 000 to	41,888 to
	22 700 kg	50,045 lb
Working Ranges		
Maximum Reach (stick pin)	11 000 mm	36'1"
Maximum Height (stick pin)	12 040 mm	39'6"

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 M318D MH delivers a maximum gross power of 130 kW (174 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 tilting buckets or 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

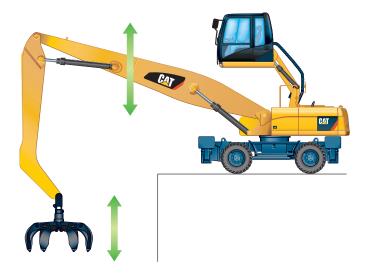
Caterpillar integrates its cylinder snubber technology into all Wheel Material Handler boom, stick and hydraulic cab riser cylinders. These snubbers help cushion shocks, reduce sound and increase cylinder life.

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 HEES™) is formulated to provide excellent high-pressure and high temperature characteristics, and is fully compatible with all hydraulic components. Cat BIO HYDO Advanced HEES™ 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 XTTM 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 5 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.



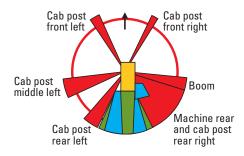








Field of Vision



Leaend:

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 M318D 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 M318D 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 M318D 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.

M318D MH Sticks

Two options of MH sticks are available for the M318D 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 4200 mm (165 in) Straight Stick is the best solution for when additional work tool functionality is needed.

Special Applications

The M318D 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 M318D 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.

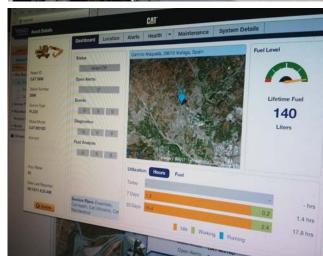
Product Link

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, VisionLinkTM.

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 air cleaner 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, higher durability and longer life.









M318D MH Wheel Material Handler Specifications

Engine		
Engine Model	Cat® C6.6 with ACE Technolog	
Ratings	1,800 rpm	
Gross Power	130 kW	174 hp
Net Power		
ISO 9249	124 kW	166 hp
EEC/80/1269	124 kW	166 hp
Bore	105 mm	4 in
Stroke	127 mm	5 in
Displacement	6.6 L	403 in ³
Cylinders	6	
Maximum Torque at 1,400 rpm	805 N·m	594 lb ft

- EPA Tier 3 compliant.
- Full engine net power up to 3000 m (9,843 ft) altitude.

Hydraulic Syste	m	
Tank Capacity	170 L	45 gal
System	255 L	67 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	310 bar	4,496 psi
Maximum Flow		
Implement/ Travel Circuit	290 L/min	77 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.

Waighta		
Weights		
MH Boom		
Rear Dozer Only	19 150 kg	42,218 lb
Rear Dozer,	20 350 kg	44,864 lb
Front Outriggers		
Front and	20 600 kg	45,415 lb
Rear Outriggers	21 (50.1	45 520 11
With MH Undercarriage	21 650 kg	47,730 lb
With MH	22 350 kg	49,273 lb
Undercarriage and Push Blade		
VA Boom		
Rear Dozer Only	19 500 kg	42,990 lb
Rear Dozer,	20 700 kg	45,636 lb
Front Outriggers	20 700 kg	43,030 10
Front and	20 950 kg	46,187 lb
Rear Outriggers		
With MH	22 000 kg	48,502 lb
Undercarriage		
With MH	22 700 kg	50,045 lb
Undercarriage and Push Blade		
One-Piece Boom		
	10.0501	41 770 11
Rear Dozer Only	18 950 kg	41,778 lb
Rear Dozer, Front Outriggers	20 150 kg	44,423 lb
Front and	20 400 kg	44,974 lb
Rear Outriggers	Č	,
With MH	21 450 kg	47,289 lb
Undercarriage		
With MH	22 150 kg	48,832 lb
Undercarriage		
and Push Blade		
Sticks	2524	
MH Straight	950 kg	2,094 lb
MH Drop	840 kg	1,852 lb
Nose Short	7.50 I	1 212 11
Digging Short	550 kg	1,213 lb
Digging Medium	580 kg	1,277 lb
Digging Long	600 kg	1,323 lb
Industrial	520 kg	1,146 lb
MH Push Blade (with MH Undercarriage)	675 kg	1,488 lb
Dozer Blade	770 kg	1,698 lb
Outriggers	1030 kg	2,271 lb
Counterweights		-,-,-,10
Standard	4000 kg	8,818 lb
• M318D HCR – Mac		

• M318D HCR – Machine weight with Hydraulic Cab Riser, medium stick, 4000 kg (8,818 lb) counterweight, with operator and full fuel tank, without work tool. Weight varies depending on configuration.

Swing Speed	10 rpm	
Swing Torque	48 kN·m	35,403 lb f
Transmission		
Forward/Reverse		
1st Gear	8 km/h	5 mph
2nd Gear	25 km/h	16 mph
Creeper Speed		
1st Gear	3 km/h	2 mph
2nd Gear	13 km/h	8 mph
Drawbar Pull	103 kN	23,155 lb
Maximum	47%	
Gradeability	4//0	

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	7100 mm	23 ft 4 in
End of One-Piece Boom	8500 mm	27 ft 11 in

Service Refill C	apacities	S
Fuel Tank Capacity	385 L	102 gal
Cooling	36 L	9.5 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

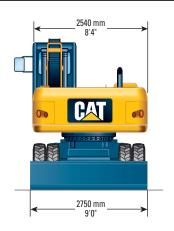
Sound Levels

Exterior Sound

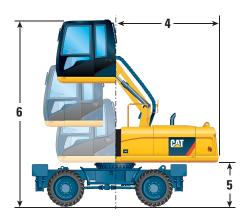
 The labeled spectator sound power level measured according to the test procedures and conditions specified in 2000/14/EC is 103 dB(A).

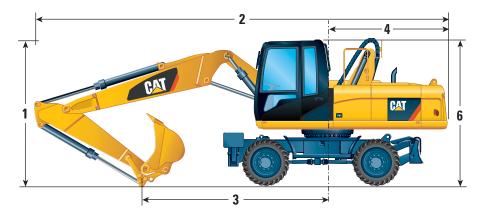
Dimensions with Standard Undercarriage

All dimensions are approximate.



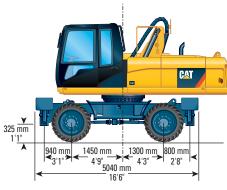




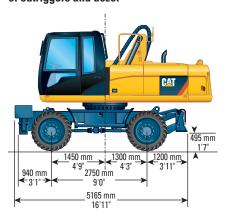


	VA I	VA Boom		ce Boom
	mm	ft/in	mm	ft/in
1 Shipping Height				
2200 mm (7'3") Stick	3320	10'11"	3320	10'11"
2500 mm (8'2") Stick	3320	10'11"	3320	10'11"
2800 mm (9'2") Stick	3320	10'11"	3320	10'11"
2 Shipping Length				
2200 mm (7'3") Stick	8870	29'1"	8970	29'5"
2500 mm (8'2") Stick	8850	29'0"	8960	29'5"
2800 mm (9'2") Stick	8820	28'11"	8950	29'4"
3 Support Point				
2200 mm (7'3") Stick	3960	13'0"	3830	12'7"
2500 mm (8'2") Stick	3640	11'11"	3500	11'6"
2800 mm (9'2") Stick	3510	11'6"	3330	10'11"
4 Tail Swing Radius	2565	8'5"	2565	8'5"
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	3930	12'11"	3930	12'11"

Undercarriage with 2 sets of outriggers



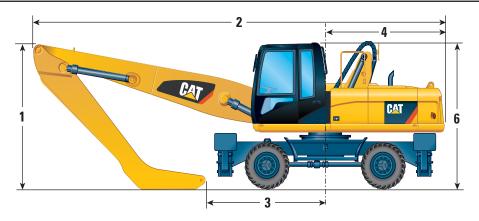
Undercarriage with 1 set of outriggers and dozer

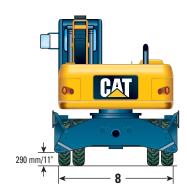


M318D MH Wheel Material Handler Specifications

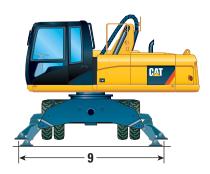
Dimensions with MH Undercarriage

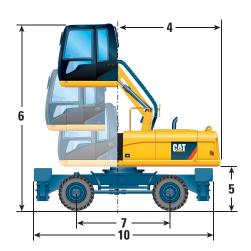
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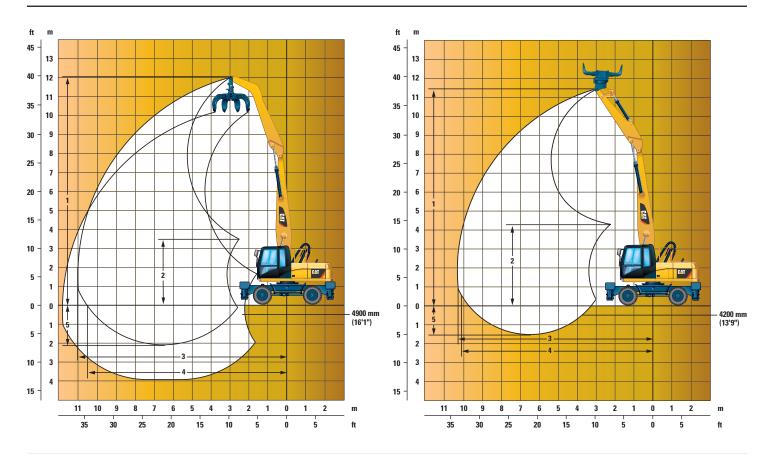


	mm	ft/in
1 Shipping Height		
4200 mm (13'9") Straight Stick	3400	11'2"
4900 mm (16'1") Drop Nose Stick	3400	11'2"
2 Shipping Length		
4200 mm (13'9") Straight Stick	9060	29'9"
4900 mm (16'1") Drop Nose Stick	9060	29'9"
3 Support Point		
4200 mm (13'9") Straight Stick	3160	10'4"
4900 mm (16'1") Drop Nose Stick	2720	8'11"
4 Tail Swing Radius	2565	8'5"
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 4900 mm		MH Straig 4200 mm	
Boom Length	6200 mm	20'4"	6200 mm	20'4"
1 Maximum Height	12 040 mm	39'6"	11 490 mm	37'9"
2 Minimum Dump Height	3690 mm	12'1"	4330 mm	14'3"
3 Maximum Reach	11 000 mm	36'1"	10 350 mm	34'0"
4 Maximum Reach at Ground Level	10 620 mm	34'10"	10 180 mm	33'5"
5 Maximum Depth	2190 mm	7'2"	1480 mm	4'10"

M318D MH Wheel Material Handler Specifications

Work Tools Matching Guide

		Boom		6200 mr	n (20'4")	
		Undercarriage	IV	IH	Stan	dard
Without Quick Coupler		Stick Length	4900 mm (16'1")	4200 mm (13'9")	4900 mm (16'1")	4200 mm (13'9")
360° Rotatable Shears*	S325B, S3	440B				
Multi-Grapples	G315B	D, R	×		×	
	GSH15B	400 L, 500 L, 600 L (0.53 yd³, 0.66 yd³, 0.79 yd³)				
	азпізь	800 L (1.05 yd³)				
Orange Peel Grapples (5 tines)		600 L (0.79 yd³)				
(5 tilles)	GSH20B	800 L (1.05 yd³)				×
		1000 L (1.3 yd³)			×	×
	GSH15B	400 L, 500 L, 600 L (0.53 yd³, 0.66 yd³, 0.79 yd³)				
	азпізь	800 L (1.05 yd³)				
Orange Peel Grapples (4 tines)		600 L (0.79 yd³)				
(1 11100)	GSH20B	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 (4000 kg/8,818 lb), heavy lift on.

<u></u>	oad point height	A	Load o	ver front			P Los	ad over re	ear		₫] Load	over side				Load	at maxin	num reac	h (stickn	ose/buck	et pin)	
Unde Stand	rcarriage dard			_	oom 200 m	ım (20)'4")				Stic 490		n (16'1	l")							Met	ric Ur	nits
			3.0 m			4.5 m			6.0 m			7.5 m			9.0 m			10.5 m				=	
	Undercarriage configuration	4	P	GP.	4	7	ŒP	4	7	GP	4	7	₫₽	4	7	GP	4	7	ŒP	4	7	GP	m
10.5 m	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down							*6500 5800	*6500 4700 *6500 *6500	*6500 3950 4450 6450										*5250 4800	*5250 3850 *5250 *5250	*5250 3250 3700 *5250	6.70
9.0 m	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down							*7850 5900	*7850 4800 *7850 *7850	7800 4100 4600 6600	*6300 4100	*6300 3300 *6300 *6300	5400 2800 3150 4550							*4700 3450	*4700 2750 *4700 *4700	4500 2300 2600 3850	8.32
7.5 m	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down							*8200 5900	*8200 4800 *8200 *8200	7800 4100 4600 6600	*7100 4150	6700 3300 6600 *7100	5400 2850 3200 4600	*5500 3050	4950 2400 4800 5400	4000 2050 2300 3400				*4400 2800	*4400 2200 *4400 *4400	3700 1850 2100 3150	9.42
6.0 m	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down							*8450 5800	*8450 4700 *8450 *8450	7700 3950 4450 6450	*7200 4050	6600 3250 6500 *7200	5350 2750 3150 4550	5650 3050	4950 2400 4800 5400	4000 2050 2300 3400				*4300 2450	4050 1900 3900 *4300	3250 1600 1850 2750	10.18
4.5 m	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down				*11 200 8850	*11 200 7100 *11 200 *11 200	*11 200 5900 6700 10 000	*8900 5600	*8900 4500 *8900 *8900	7450 3800 4250 6250	*7400 3950	6500 3150 6400 7150	5250 2650 3000 4400	5550 2950	4850 2350 4750 5350	3950 1950 2250 3350	4350 2300	3800 1800 3700 4200	3100 1500 1700 2600	4250 2250	3700 1750 3600 4050	3000 1450 1650 2500	10.68
3.0 m	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down	*18 650 16 850	*18 650 12 800 *18 650 *18 650	*18 650 9950 11 750 *18 650	*12 400 8250	*12 400 6500 *12 400 *12 400	11 500 5350 6150 9350	*9400 5300	9050 4200 9000 *9400	7150 3500 4000 5950	7300 3800	6300 3000 6200 6950	5050 2500 2850 4250	5450 2900	4800 2250 4650 5250	3850 1900 2150 3250	4300 2250	3800 1750 3650 4150	3050 1450 1700 2550	4050 2150	3550 1650 3400 3900	2850 1350 1550 2400	10.94
1.5 m	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down				*13 100 7600	*13 100 5900 *13 100 *13 100	10 800 4800 5550 8700	*9650 5000	8700 3900 8650 *9650	6800 3250 3700 5650	7100 3650	6150 2850 6000 6800	4900 2350 2700 4100	5350 2800	4700 2150 4550 5150	3750 1800 2100 3150	4250 2250	3750 1700 3600 4100	3000 1400 1650 2500	3950 2100	3500 1600 3350 3800	2800 1300 1550 2350	11.00
0.0 m	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down	*3500 *3500	*3500 *3500 *3500 *3500	*3500 *3500 *3500 *3500	*12 200 7200	*12 200 5450 *12 200 *12 200	10 300 4400 5150 8250	*9250 4750	8400 3650 8350 *9250	6550 3000 3500 5400	6950 3500	6000 2700 5850 6600	4750 2250 2600 3950	5250 2700	4600 2100 4450 5050	3650 1750 2000 3050	*4100 2200	3700 1700 3550 4050	2950 1400 1600 2500				
−1.5 m	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down				*9600 7000	*9600 5300 *9600 *9600	*9600 4200 4950 8050	*8100 4600	*8100 3550 *8100 *8100	6400 2900 3350 5250	*6300 3400	5900 2600 5750 *6300	4650 2150 2500 3850	*4750 2650	4550 2050 4400 *4750	3600 1700 1950 3000							

Undercarriage

Special Application

Boom

6200 mm (20'4")

Stick

4900 mm (16'1")

> →		3.0	m	4.5	m	6.0	m	7.5	m	9.0	m	10.	5 m	=		
	Undercarriage configuration	₽ <u></u>			F	4	Œ		F	4	GP	P	ŒP		GP	m
10.5 m	All stabilizers up					5750	4350							4800	3650	6.70
10.5 111	All stabilizers down					*6500	*6500							*5250	*5250	0.70
9.0 m	All stabilizers up					5900	4500	4100	3100					3450	2600	8.32
9.0 111	All stabilizers down					*7850	*7850	*6300	*6300					*4700	*4700	0.32
7.5 m	All stabilizers up					5900	4500	4150	3150	3050	2300			2800	2100	9.42
7.5 111	All stabilizers down					*8200	*8200	*7100	6450	*5500	4800			*4400	*4400	3.42
6.0 m	All stabilizers up					5800	4400	4100	3100	3050	2300			2450	1800	10.18
0.0 111	All stabilizers down					*8450	*8450	*7200	6400	5850	4750			*4300	3900	10.10
4.5 m	All stabilizers up			8750	6500	5550	4200	3950	2950	3000	2200	2350	1700	2250	1650	10.68
4.5 111	All stabilizers down			*11 200	*11 200	*8900	*8900	*7400	6250	5800	4700	4550	3700	*4300	3600	10.00
3.0 m	All stabilizers up	16 300	11 000	8150	5950	5300	3900	3800	2850	2900	2150	2300	1700	2150	1550	10.94
3.0 111	All stabilizers down	*18 650	*18 650	*12 400	*12 400	*9400	8650	*7600	6100	5700	4600	4500	3650	4250	3450	10.54
1.5 m	All stabilizers up			7550	5350	5000	3650	3650	2650	2800	2050	2250	1650	2100	1500	11.00
1.5 111	All stabilizers down			*13 100	*13 100	*9650	8300	7400	5900	5600	4500	4450	3600	*4150	3400	11.00
0.0 m	All stabilizers up	*3500	*3500	7100	4950	4750	3400	3500	2550	2750	2000	2200	1600			
0.0 111	All stabilizers down	*3500	*3500	*12 200	*12 200	*9250	8050	*7200	5750	5500	4450	*4100	3600			
-1.5 m	All stabilizers up			6900	4800	4600	3300	3400	2450	2700	1950					
-1.5 111	All stabilizers down			*9600	*9600	*8100	7900	*6300	5650	*4750	4400					

^{*}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.

M318D MH Wheel Material Handler Specifications

Lift Capacities

All values are in lb, without bucket and without QC, with counterweight (4000 kg/8,818 lb), heavy lift on.

<u></u>	oad point height	Q .	Load o	ver front			P Los	ad over r	ear		Ğ	Load	over side				Load	at maxim	num reac	h (stickn	ose/buck	.et pin)	
	rcarriage			_	00m	(20)(4!!)				Sti	•••	. (1.61	1.11)							Engl	lish Ur	nits
Stan	aara			0.	200 m	nm (20)'4")				491	00 mn	1 (16	1")									
\>			10.0 ft			15.0 ft			20.0 ft			25.0 ft			30.0 ft			35.0 ft				=	
	Undercarriage configuration		V	ŒP		7	æ		7			7			V	Œ₽	4	7	G		7	GP	ft
35.0 ft	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down							*13,400 12,400	*13,400 10,000 *13,400 *13,400	*13,400 8,500 9,500 *13,400										*11,800 11,200	*11,800 9,000 *11,800 *11,800	*11,800 7,600 8,600 *11,800	21.23
30.0 ft	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down							*17,000 12,700	*17,000 10,300 *17,000 *17,000	16,800 8,800 9,800 14,200	*13,100 8,800	*13,100 7,100 *13,100 *13,100	11,500 6,000 6,800 9,800							*10,400 7,800	*10,400 6,200 *10,400 *10,400	10,200 5,200 5,900 8,700	26.87
25.0 ft	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down							*17,900 12,700	*17,900 10,300 *17,900 *17,900	16,800 8,800 9,900 14,200	*15,500 8,900	14,400 7,100 14,100 *15,500	11,600 6,100 6,800 9,900	*11,000 6,500	10,600 5,200 10,300 *11,000	8,600 4,400 4,900 7,300				*9,800 6,300	*9,800 4,900 *9,800 *9,800	8,300 4,200 4,700 7,000	30.64
20.0 ft	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down							*18,400 12,500	*18,400 10,100 *18,400 *18,400	16,500 8,600 9,600 13,900	*15,700 8,800	14,200 7,000 14,000 15,700	11,500 6,000 6,700 9,800	12,100 6,500	10,600 5,200 10,300 11,600	8,600 4,400 4,900 7,300				*9,500 5,400	8,900 4,300 8,700 *9,500	7,200 3,600 4,100 6,100	33.27
15.0 ft	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down				*24,300 19,100	*24,300 15,300 *24,300 *24,300	*24,300 12,700 14,500 21,500	*19,400 12,000	*19,400 9,700 *19,400 *19,400	16,000 8,100 9,200 13,500	16,100 8,500	14,000 6,800 13,700 15,400	11,300 5,700 6,500 9,500	12,000 6,400	10,500 5,000 10,200 11,500	8,500 4,200 4,800 7,200				9,300 5,000	8,200 3,900 7,900 9,000	6,600 3,200 3,700 5,600	34.97
10.0 ft	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down	*40,200 36,200	*40,200 27,500 *40,200 *40,200	*40,200 21,500 25,300 *40,200	*26,900 17,800	*26,900 14,000 *26,900 *26,900	24,700 11,600 13,300 20,200	*20,400 11,400	19,400 9,100 19,300 *20,400	15,400 7,600 8,600 12,800	15,700 8,200	13,600 6,500 13,300 15,000	10,900 5,400 6,200 9,200	11,800 6,200	10,300 4,900 10,000 11,300	8,300 4,100 4,700 7,000	9,300 4,900	8,100 3,800 7,900 8,900	6,500 3,100 3,600 5,500	8,900 4,700	7,800 3,600 7,600 8,600	6,300 3,000 3,500 5,300	35.89
5.0 ft	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down				*28,400 16,400	*28,400 12,700 *28,400 *28,400	23,200 10,300 12,000 18,700	*20,900 10,800	18,700 8,400 18,500 20,800	14,700 7,000 8,000 12,200	15,300 7,800	13,200 6,100 12,900 14,600	10,500 5,100 5,800 8,800	11,500 6,000	10,100 4,700 9,800 11,100	8,100 3,900 4,500 6,800	9,200 4,800	8,000 3,700 7,800 8,800	6,500 3,100 3,500 5,400	8,800 4,600	7,700 3,500 7,400 8,400	6,200 2,900 3,400 5,200	36.09
0.0 ft	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down	*8,000 *8,000	*8,000 *8,000 *8,000 *8,000	*8,000 *8,000 *8,000 *8,000	*27,000 15,500	*27,000 11,800 *27,000 *27,000	22,100 9,500 11,100 17,700	*20,100 10,300	18,100 7,900 17,900 *20,100	14,100 6,500 7,500 11,600	14,900 7,500	12,900 5,800 12,600 14,300	10,200 4,800 5,600 8,500	11,400 5,900	9,900 4,500 9,600 10,900	7,900 3,700 4,300 6,600		3,000	5,.30		5,130	5,250	
−5.0 ft	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down				*22,200 15,000	*22,200 11,400 *22,200 *22,200	21,600 9,100 10,700 17,300	*17,500 10,000	*17,500 7,600 *17,500 *17,500	13,800 6,200 7,200 11,300	*13,500 7,400	12,700 5,700 12,400 *13,500	10,000 4,600 5,400 8,300										

Undercarriage

Special Application

Boom

6200 mm (20'4")

Stick

4900 mm (16'1")

>> →		10.	0 ft	15.	0 ft	20.	0 ft	25.	0 ft	30.	D ft	35.0	D ft	-		
	Undercarriage configuration	4	Œ.	4	Œ.		Œ.	4	GP	4	Œ	4	Œ	4	GP	ft
35.0 ft	All stabilizers up					12,300	9,300							11,200	8,400	21.23
33.011	All stabilizers down					*13,400	*13,400							*11,800	*11,800	21.23
30.0 ft	All stabilizers up					12,700	9,600	8,800	6,700					7,800	5,900	26.87
30.011	All stabilizers down					*17,000	*17,000	*13,100	*13,100					*10,400	*10,400	20.07
25.0 ft	All stabilizers up					12,700	9,600	8,900	6,700	6,500	4,900			6,300	4,700	30.64
25.0 11	All stabilizers down					*17,900	*17,900	*15,500	13,900	*11,000	10,300			*9,800	*9,800	30.04
20.0 ft	All stabilizers up					12,500	9,400	8,800	6,600	6,500	4,900			5,500	4,100	33.27
20.0 11	All stabilizers down					*18,400	*18,400	*15,700	13,700	12,600	10,300			*9,500	8,700	33.27
15.0 ft	All stabilizers up			18,900	14,000	12,000	9,000	8,500	6,400	6,400	4,800			5,000	3,700	34.97
13.011	All stabilizers down			*24,300	*24,300	*19,400	19,300	*16,100	13,500	12,500	10,100			*9,500	8,000	34.37
10.0 ft	All stabilizers up	35,000	23,700	17,600	12,800	11,400	8,500	8,200	6,100	6,300	4,600	4,900	3,600	4,700	3,400	35.89
10.011	All stabilizers down	*40,200	*40,200	*26,900	*26,900	*20,400	18,600	16,300	13,100	12,300	9,900	9,700	7,900	9,300	7,600	33.03
5.0 ft	All stabilizers up			16,300	11,600	10,800	7,900	7,900	5,800	6,100	4,400	4,800	3,500	4,600	3,400	36.09
3.0 11	All stabilizers down			*28,400	*28,400	*20,900	17,900	15,900	12,700	12,100	9,700	9,600	7,800	9,200	7,500	30.03
0.0 ft	All stabilizers up	*8,000	*8,000	15,300	10,700	10,300	7,400	7,600	5,500	5,900	4,300					
0.011	All stabilizers down	*8,000	*8,000	*27,000	*27,000	*20,100	17,300	*15,600	12,400	11,900	9,600					
-5.0 ft	All stabilizers up			14,900	10,300	10,000	7,100	7,400	5,300							
-J.0 IL	All stabilizers down			*22,200	*22,200	*17,500	17,000	*13,500	12,200							

 $^{{}^{*}}$ Limited by hydraulic rather than tipping load.

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

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Lift Capacities

All values are in kg, without bucket and without QC, with counterweight (4000 kg/8,818 lb), heavy lift on.

<u></u>	oad point height		Load ov	er front			P Los	ad over re	ear		C)	Load	over side				Load	at maxin	num reac	h (stickn	ose/buck	et pin)	
	rcarriage				oom						Stic										Me	tric Ur	nits
Stan	dard			6	200 m	ım (20)'4")				420	00 mn	n (13'9	9")									
			3.0 m			4.5 m			6.0 m			7.5 m			9.0 m			10.5 m				=	
	Undercarriage configuration	4	A	GP	Q.	7	ŒP	Q.	7	₫₽	4	P	₫₽	4	P	₽	4	P	ŒP	4	7	GP	m
9.0 m	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down							*8100 5500	*8100 4350 *8100 *8100	7350 3650 4150 6150										*5300 3750	*5300 2950 *5300 *5300	5050 2450 2800 4200	7.42
7.5 m	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down							*8300 5500	*8300 4400 *8300 *8300	7400 3650 4150 6150	*7050 3750	6300 2950 6200 6950	5000 2450 2800 4200							*4950 2850	4900 2200 4750 *4950	3900 1800 2100 3250	8.64
6.0 m	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down				*10 650 8750	*10 650 7000 *10 650 *10 650	*10 650 5750 6600 9900	*8550 5400	*8550 4250 *8550 *8550	7250 3550 4050 6050	*7100 3700	6250 2900 6150 6900	4950 2400 2750 4150	5250 2650	4550 2050 4450 5050	3650 1650 1950 3000				*4800 2400	4150 1850 4050 4600	3300 1500 1750 2750	9.46
4.5 m	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down	*14 500 *14 500	*14 500 13 450 *14 500 *14 500	10 500 12 350	*11 600 8300	*11 600 6550 *11 600 *11 600	*11 600 5350 6150 9450	*8900 5150	*8900 4050 8900 *8900	7000 3350 3850 5800	7100 3600	6100 2800 6000 6750	4850 2300 2650 4050	5200 2600	4500 2000 4400 5000	3600 1600 1900 2950				4350 2150	3800 1600 3650 4150	3000 1300 1550 2450	10.00
3.0 m	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down				*12 500 7650	*12 500 5900 *12 500 *12 500	10 850 4800 5550 8750	*9250 4850	8600 3750 8550 *9250	6700 3100 3550 5500	6900 3450	5950 2650 5800 6600	4700 2150 2500 3900	5100 2550	4450 1900 4300 4900	3500 1550 1800 2900				4100 2000	3550 1500 3450 3950	2800 1200 1400 2300	10.28
1.5 m	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down				*12 600 7050	*12 600 5350 *12 600 *12 600	10 200 4250 5000 8150	*9200 4600	8250 3500 8200 *9200	6400 2800 3300 5200	6750 3250	5750 2500 5650 6400	4550 2000 2350 3750	5050 2450	4350 1850 4200 4800	3400 1500 1750 2800				*4000 1950	3500 1450 3400 3850	2750 1150 1350 2250	10.34
0.0 m	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down				*9450 6700	*9450 5000 *9450 *9450	*9450 3950 4700 7750	*8450 4350	8000 3300 7950 *8450	6150 2650 3100 5000	*6500 3150	5650 2350 5500 6250	4400 1900 2250 3600	*4850 2400	4300 1800 4150 4750	3350 1400 1700 2750							

Undercarriage

Special Application

Boom

6200 mm (20'4")

Stick

4200 mm (13'9")

□		3.0	m	4.5	m	6.0	m	7.5	m	9.0	m	10.	5 m	=		
	Undercarriage configuration	₽.		4		4	œ	P	4	P	œ	₽ <u>.</u>		4		m
9.0 m	All stabilizers up					5450	4050							3750	2750	7.42
9.0 111	All stabilizers down					*8100	*8100							*5300	*5300	7.42
7.5 m	All stabilizers up					5500	4100	3750	2750					2900	2100	8.64
7.5 111	All stabilizers down					*8300	*8300	*7050	6050					*4950	4700	0.04
6.0 m	All stabilizers up			8650	6350	5350	3950	3700	2700	2700	1900			2450	1700	9.46
0.0 111	All stabilizers down			*10 650	*10 650	*8550	*8550	*7100	6000	5500	4400			*4800	4050	3.40
4.5 m	All stabilizers up	*14 500	11 550	8200	5950	5150	3750	3600	2600	2650	1850			2200	1500	10.00
4.5 111	All stabilizers down	*14 500	*14 500	*11 600	*11 600	*8900	8550	*7250	5900	5450	4350			4550	3650	10.00
3.0 m	All stabilizers up			7600	5350	4850	3500	3450	2450	2550	1800			2050	1400	10.28
3.0 111	All stabilizers down			*12 500	*12 500	*9250	8200	7200	5700	5350	4250			4300	3450	10.20
1.5 m	All stabilizers up			7000	4850	4550	3250	3300	2300	2500	1750			2000	1350	10.34
1.5111	All stabilizers down			*12 600	*12 600	*9200	7900	7050	5550	5250	4200			*4000	3400	10.54
0.0 m	All stabilizers up			6650	4500	4350	3050	3150	2200	2400	1650					
0.0 111	All stabilizers down			*9450	*9450	*8450	7650	*6500	5400	*4850	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.

 $\label{thm:local_equation} \textbf{Always refer to the appropriate Operation and Maintenance Manual for specific product information.}$

M318D MH Wheel Material Handler Specifications

Lift Capacities

All values are in lb, without bucket and without QC, with counterweight (4000 kg/8,818 lb), heavy lift on.

ro	oad point height	[A	Load ov	ver front			The Los	ad over r	ear		G.	Load	over side	1		4	Load	at maxin	num read	ch (stickn	ose/buck	et pin)	
Unde	rcarriage			В	oom						Sti	ck									Engl	ish Uı	nits
Stan	dard			6	200 m	nm (20)'4")				420	00 mn	n (13'9	9")									
			10.0 ft			15.0 ft			20.0 ft			25.0 ft			30.0 ft			35.0 ft			#	=	
	Undercarriage configuration	4	The state of the s	GP.	4	P P	GP	4	7	Œ	4	P	GP	4	7	₽	4	P	GP.	4		Œ	ft
30.0 ft	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down							*17,200 11,800	*17,200 9,300 *17,200 *17,200	15,800 7,800 8,900 13,200					_					*11,800 8,500	*11,800 6,700 *11,800 *11,800	11,500 5,600 6,400 9,600	23.85
25.0 ft	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down							*18,100 11,800	*18,100 9,400 *18,100 *18,100	15,800 7,900 9,000 13,300	*15,400 8,000	13,500 6,300 13,200 14,900	10,800 5,200 6,000 9,000							*10,900 6,400	*10,900 5,000 10,700 *10,900	8,700 4,100 4,700 7,300	28.08
20.0 ft	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down				*23,100 18,900	*23,100 15,000 *23,100 *23,100	*23,100 12,400 14,200 21,300	*18,500 11,600	*18,500 9,200 *18,500 *18,500	15,600 7,700 8,700 13,000	*15,400 7,900	13,400 6,200 13,200 14,800	10,700 5,100 5,900 8,900	11,300 5,700	9,800 4,300 9,500 10,800	7,800 3,500 4,100 6,500				*10,600 5,400	9,300 4,100 9,000 10,200	7,400 3,300 3,900 6,100	30.91
15.0 ft	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down	*31,100 *31,100	*31,100 29,000 *31,100 *31,100	22,700 26,600	*25,100 17,900	*25,100 14,100 *25,100 *25,100	24,900 11,600 13,300 20,300	*19,300 11,100	19,200 8,700 19,100 *19,300	15,100 7,200 8,300 12,500	15,200 7,700	13,100 6,000 12,900 14,500	10,400 4,900 5,700 8,700	11,200 5,600	9,700 4,300 9,400 10,700	7,700 3,500 4,100 6,400				9,600 4,800	8,400 3,600 8,100 9,200	6,600 2,900 3,400 5,500	32.74
10.0 ft	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down				*27,100 16,500	*27,100 12,800 *27,100 *27,100	23,400 10,300 12,000 18,900	*20,100 10,500	18,500 8,100 18,300 *20,100	14,400 6,700 7,700 11,900	14,900 7,400	12,800 5,700 12,500 14,200	10,100 4,600 5,400 8,400	11,000 5,500	9,500 4,100 9,200 10,500	7,500 3,300 3,900 6,200				9,100 4,500	7,900 3,300 7,600 8,700	6,200 2,600 3,100 5,100	33.73
5.0 ft	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down				*27,300 15,200	*27,300 11,500 *27,300 *27,300	21,900 9,200 10,800 17,500	*20,000 9,900	17,700 7,500 17,600 19,900	13,700 6,100 7,100 11,300	14,500 7,100	12,400 5,300 12,100 13,800	9,700 4,300 5,100 8,000	10,800 5,300	9,300 4,000 9,100 10,300	7,400 3,200 3,800 6,100				*8,900 4,300	7,700 3,200 7,400 8,500	6,100 2,500 3,000 5,000	33.92
0.0 ft	2 sets stab down Rear dozer up Rear dozer down Dozer and stab down				*22,200 14,400	*22,200 10,800 *22,200 *22,200	21,000 8,500 10,100 16,700	*18,400 9,400	17,200 7,100 17,000 *18,400	13,300 5,700 6,700 10,800	*14,000 6,800	12,100 5,100 11,800 13,500	9,500 4,100 4,800 7,800	*10,400 5,200	9,200 3,800 8,900 10,200	7,200 3,000 3,600 5,900							

Undercarriage

Special Application

Boom

6200 mm (20'4")

Stick

4200 mm (13'9")

□		10.	0 ft	15.	0 ft	20.	D ft	25.0) ft	30.) ft	35.	0 ft	Ē		
	Undercarriage configuration	4		4		4	œ	4	æ	4	GP	4	æ	4		ft
30.0 ft	All stabilizers up					11,700	8,700							8,600	6,300	23.85
30.0 11	All stabilizers down					*17,200	*17,200							*11,800	*11,800	23.00
25.0 ft	All stabilizers up					11,800	8,800	8,000	5,900					6,500	4,700	28.08
20.0 11	All stabilizers down					*18,100	*18,100	*15,400	13,000					*10,900	10,600	20.00
20.0 ft	All stabilizers up			18,600	13,700	11,500	8,500	7,900	5,800	5,700	4,100			5,400	3,800	30.91
20.0 11	All stabilizers down			*23,100	*23,100	*18,500	*18,500	*15,400	12,900	11,800	9,400			*10,600	9,000	30.31
15.0 ft	All stabilizers up	*31,100	24,900	17,700	12,800	11,100	8,100	7,700	5,600	5,700	4,000			4,800	3,400	32.74
13.011	All stabilizers down	*31,100	*31,100	*25,100	*25,100	*19,300	18,400	*15,700	12,600	11,700	9,400			10,100	8,100	32.74
10.0 ft	All stabilizers up			16,300	11,600	10,500	7,500	7,400	5,300	5,500	3,900			4,500	3,100	33.73
10.011	All stabilizers down			*27,100	*27,100	*20,100	17,700	15,500	12,300	11,500	9,200			9,500	7,600	33.73
5.0 ft	All stabilizers up			15,100	10,400	9,900	7,000	7,100	5,000	5,300	3,700			4,400	3,000	33.92
3.011	All stabilizers down			*27,300	*27,300	*20,000	17,000	15,100	11,900	11,300	9,000			*8,900	7,500	33.32
0.0 ft	All stabilizers up			14,300	9,800	9,400	6,500	6,800	4,700	5,200	3,600					
0.011	All stabilizers down			*22,200	*22,200	*18,400	16,400	*14,000	11,700	*10,400	8,900					

^{*}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.

M318D 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, 4000 kg (8,818 lb)

Mirrors, frame and cab

Product Link ready

M318D 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 HEES™ biodegradable hydraulic oil

Generator with valve and priority function Lowering control devices for boom and stick SmartBoom™

Booms and Sticks

Material Handling boom (6200 mm/20'4") Straight MH stick (4200 mm/13'9") Drop nose MH stick (4900 mm/16'1") One-piece boom (5350 mm/17'7") VA boom (5260 mm/17'4") Sticks

- 2200 mm/7'3"
- 2500 mm/8'3"
- 2800 mm/9'3"

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

Headrest 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 Mirrors heated, frame and cab Tires (see pg. 14) Waste Handling Package

Notes

M318D 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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