



M325D MH
M325D LMH
Wheel
Material Handlers



	M325D MH	M325D LMH
Cat® C7 Engine with ACERT™ Technology		
Net Power (ISO 9249) at 1800 rpm	140 kW/190 hp	140 kW/190 hp
Operating Weight without tool	30 870 kg	35 260 kg
Maximum Reach	15 670 mm	15 670 mm
Maximum Height	17 140 mm	17 570 mm
Maximum Depth	6420 mm	5790 mm

M325D MH and M325D LMH Wheeled Material Handlers

The Cat M325D MH and M325D LMH are specifically designed for the scrap and port handling applications, and incorporate many innovations for excellent performance and durability.

Engine

- ✓ The Cat C7 engine with ACERT™ Technology offers better fuel efficiency and reduced wear. ACERT Technology works at the point of combustion to optimize engine performance and provide low exhaust emissions. By combining ACERT Technology with the new Economy Mode, customers can balance the demands of performance and fuel economy to suit their requirements and application. **pg. 4**

Hydraulics

- ✓ The hydraulic system has been designed to provide reliability and outstanding controllability with increased lifting capacity. The Cat Tool Control System provides enhanced flexibility. The Heavy Lift Mode maximizes lifting performance and maintains excellent stability. **pg. 5**

Operator Comfort

- ✓ The new cab provides maximum space, wider visibility and easy access to switches. The monitor is a full-color graphical display that allows the operator to understand the machine information easily. **pg. 6**

Environmentally Responsible Design

- ✓ Quieter operation, lower engine emissions, less fluid disposal and cleaner service can help you meet or exceed worldwide regulations and protect the environment. **pg. 4**

Elevated Cab

- ✓ The M325D MH and M325D LMH are equipped with a hydraulic cab riser to maximize viewing to all sides of the machine. This hydraulic cab riser offers infinitely variable heights up to 2600 mm of additional height. **pg. 8**

SmartBoom™

More productive. Faster cycle times for material handling. **pg. 5**

The M325D MH and M325D LMH use the most sophisticated manufacturing technology to ensure the highest level of manufacturing quality.

Excellent control, impressive lift capacity, simplified service and more comfortable operator station increase your productivity and lower your operating costs.

- ✓ *New feature*



Electronic Control System

- ✓ The compact, full-color, graphical monitor displays machine, maintenance, diagnostic and prognostic information in twenty different languages. The new Economy Mode can also be selected from the monitor. To minimize sun glare, the monitor angle is adjustable.
pg. 7

Structures

The structural components are the backbone of the machine's durability. Caterpillar design and manufacturing techniques assure outstanding durability and service life. Caterpillar booms and sticks are large, welded box-section structures with thick, multi-plate fabrications that resist high stress. Structures are stress relieved, thanks to a heat treatment, to significantly improve structures fatigue strength. Stick options allow you to pick the best match for your material handling job.
pg. 9

Work Tools

- ✓ Orange peel grapples and rehandling clamshell buckets are offered to maximize performance of the M325D MH and M325D LMH.
pg. 10

Service and Maintenance

Fast, easy service has been designed in with extended service intervals, advanced filtration, convenient filter access and user-friendly electronic diagnostics for increased productivity and reduced maintenance costs.
pg. 11

Complete Customer Service

Your Cat dealer offers a wide range of services that can be set up under a customer support agreement when you purchase your equipment. The dealer will help you choose a plan that can cover everything from machine and attachment selection to replacement.
pg. 11



Engine

*Built for power, reliability, economy and low emissions.
Meeting regulations... Exceeding expectations.*



Performance. The Cat C7 engine with ACERT Technology offers more engine power, and runs at lower speeds for better fuel efficiency and reduced wear.

Automatic Engine Speed Control.

The two-stage, one-touch control maximizes fuel efficiency and reduces sound levels.

Engine Controller. ADEM™ A4 (Advanced Diesel Engine Management) electronic control module manages fuel delivery to get the best performance per liter of fuel. The controller uses sensors in fuel, air intake, exhaust and cooling systems and provides flexible fuel mapping, allowing the engine to respond quickly to varying application needs. It tracks engine and machine conditions while keeping the engine operating at peak efficiency.

Fuel Delivery. The Cat C7 features electronic controls that govern the mechanically actuated unit fuel injection system. Multiple injection fuel delivery involves a high degree of precision. Precisely shaping the combustion cycle lowers combustion chamber temperatures, generating fewer emissions and optimizing fuel combustion. This translates into more work output for your fuel cost.

Cooling System. To reduce fan noise, the cooling fan is driven from a viscous clutch which is electrically controlled by the machine ECM. It calculates optimum fan speed based on the target engine speed, coolant temperature, hydraulic oil temperature and actual fan speed. The Cat C7 delivers a completely new layout that separates the cooling system from the engine compartment.

Air Cleaner. The radial seal air filter features a double-layered filter core for more efficient filtration and is located in a compartment behind the cab. A warning is displayed on the monitor when dust accumulates above a preset level.

Environmentally Responsible Design

Caterpillar machines not only help you build a better world, they help maintain and preserve the fragile environment.



Outstanding Performance.

Many features designed to provide outstanding performance which can mean more work done in a day, less fuel consumption and minimal impact on our environment.

Emissions. ACERT Technology is a differentiated technology that reduces emissions at the point of combustion. The technology capitalizes on Caterpillar's proven leadership in three core engine systems: fuel, air and electronics.

Fewer Leaks and Spills. Engine oil and encapsulated hydraulic oil filters are positioned vertically and are easy to reach to minimize spillage. Service intervals are extended to reduce the times fluids are changed and handled.

- Hydraulic oil service interval can be extended to 4000 hours with the S•O•S program.
- In addition to the S•O•S program fine filtration system attachment extends the service interval to 5000 hours.
- Cat Extended Life Coolant extends service to 6000 h, less need for fluid disposal.
- The hydraulic system is compatible with Cat HEES hydraulic bio-oil for ecologically sensitive applications.

Hydraulics

The M325D MH and M325D LMH hydraulic system is designed to handle the specific requirements of the material handling industry.

Pilot System. The pilot pump is independent from the main pumps and controls the front linkage, swing and travel operations.

Hydraulic Cross-Sensing System. It utilizes each of two hydraulic pumps to 100%, under all operating conditions. This improves productivity with faster implement speeds and quicker, stronger pivot turns.

Boom and Stick Regeneration Circuit. Saves energy during boom-down and stick-in operation which increases efficiency, reduces cycle times and pressure loss for higher productivity, lower operating costs and increased fuel efficiency.

Boom and Swing Priority. The hydraulic system provides automatic priority function for boom-up and swing operations eliminating the need for work mode buttons. When the boom or swing lever is activated, the system automatically assigns priority based on operator demand

Hydraulic Cylinder Snubbers. Located at the rod-end of the boom cylinders and both ends of the stick cylinders to cushion shocks while reducing sound levels and extending component life.

Improved Hydraulic Attachments. New damping valves, lowering check valves and pressure reducing valves on M325D MH and M325D LMH significantly improve operator comfort and combined movements' smoothness. Machines are less aggressive and cab vibrations are reduced, while providing even more lifting capacity and improved controllability.

Heavy Lift Mode. The operator can select the heavy lift mode at the push of a button to boost lifting capability and provide improved controllability of heavy loads.

Medium Pressure Circuit. The on/off grapple rotate function on M325C MH/LMH has been replaced by a modular grapple rotate function on M325D MH/LMH with a sliding switch on left joystick to help the operator to precisely position the tool. The grapple open/close function is activated through high pressure circuit on right joystick.



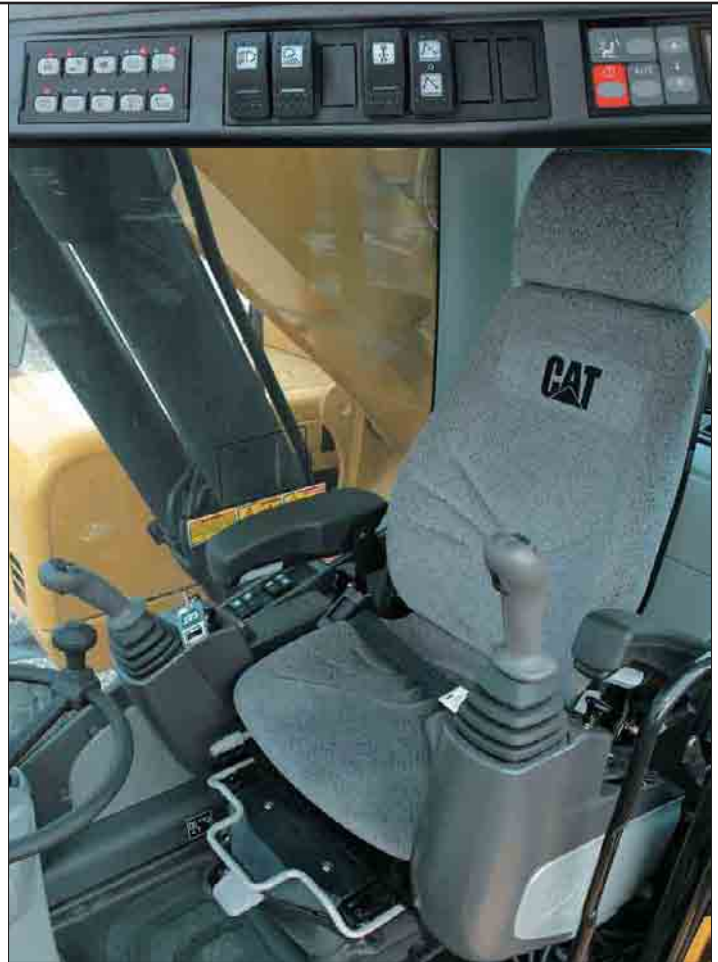
SmartBoom Feature. It allows the operator to fully concentrate on production. The unique Cat SmartBoom significantly enhances operator comfort and job efficiency. Loading barges is more productive and more fuel efficient as the return cycle is reduced while the boom down function does not require pump flow. Unloading barges is easier and safer because the SmartBoom avoids excessive force being put on the barge's floor.

Hydraulic Generator. The optional generator control circuit and optional generator 20 kW allow the installation of a magnet.



Operator Station

Designed for simple, easy operation, high visibility and comfort, the M325D MH and M325D LMH allow the operator to focus on production.



Windows and Wipers. 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 windshield meet operator preference and applications conditions.

- 50/50 split front windshield allows both upper and lower portions to be stored in an overhead position.
- 70/30 split front windshield stores the upper portion above the operator. The lower front windshield features a rounded design to maximize downward visibility and improves wiper coverage.
- Both openable versions feature a one-touch action release system.
- The one-piece fixed front windshield is available in standard heavy duty laminated glass, and offer the optimum visibility.

Parallel wiper system covers almost the complete front window without leaving unwiped areas in the immediate line of sight of the operator.

Monitor. The compact, full-color, graphical monitor displays machine, maintenance, diagnostic and prognostic information, in twenty different languages. Monitor angle can be adjusted to minimize sun glare.

Consoles. Redesigned consoles feature a simple, functional design to reduce operator fatigue, ease of switch operations and excellent visibility. Both consoles have attached armrests with height adjustments.

Implement Controls. Easy to handle joysticks with integrated push buttons and sliding switches control all implement and swing functions. The sliding switches provide modulated control for grapple rotation and hydraulic cab riser activation. They are designed to increase operator comfort and reduce operator fatigue.



Electronic Control System

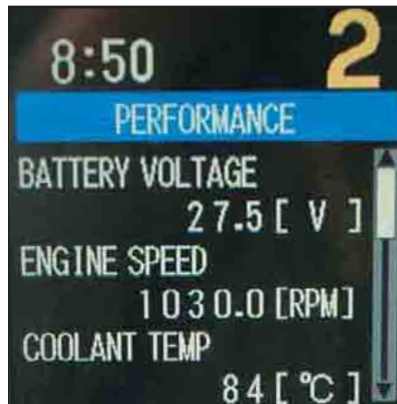
Manages the engine and hydraulics for maximum performance.

Standard Equipment.

- For added safety, the tiltable left hand seat console must be in the operate position to activate the machine controls functions.
- The standard and optional seats provide a variety of adjustments to suit operator's size and weight including fore/aft, height and weight. Wide adjustable armrests and a retractable seat belt are also included.
- To enhance operator comfort and productivity, the cab includes a lighter, drink holder, coat hook, service meter, literature holder, magazine rack and storage compartment.
- Air conditioning.
- Climate control: positive filtered ventilation with a pressurized cab. Fresh air or re-circulated air can be selected with a switch on the right console.

Optional Equipment.

- Air suspension seat.
- The cab can be equipped with 12 V converter and up to two 12 V/7 A electrical sockets to provide additional electrical resources.
- Machine Security System (MSS) is available from the factory. MSS uses special Caterpillar key with an embedded electronic chip for controlling unauthorized machine operation.
- The Product Link provides all kinds of information and working parameters, thanks to a satellite connection between a computer and the machine. Easier fleet management and preventive maintenance.
- Falling object guard on top and front of the cab. The front guard swings out for easier windshield cleaning.



Monitor Display Screen. The monitor is a full color 400x234 pixels Liquid Crystal Display (LCD) graphic display. The Master Caution Lamp flashes when one of the critical conditions below occurs:

- Engine oil pressure low
 - Coolant temperature high
 - Hydraulic oil temperature high
- Under normal conditions or the default condition, the monitor display screen is divided into four areas; clock and throttle dial, gauge, event display and multi-information display.

Clock and Throttle Dial Area.

The clock and the throttle dial position are in this area and the gas-station icon with green color is also displayed.

Gauge Area. Three analog gauges, fuel level, hydraulic oil temperature and coolant temperature, are displayed in this area.

Event Display Area.

Machine information is displayed in this area with the icon and language.

Multi-information Display Area.

This area is reserved for displaying information that is convenient for the operator. The "CAT" logo mark is displayed when information to display does not exist.

Keypad. The keypad allows operator to select machine operation conditions and to set view preferences.



Elevated Cab

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

Hydraulic Cab Riser. The new design of the parallelogram hydraulic cab riser offers increased visibility as well as optimized operator comfort thanks to higher, larger and more robust structures. The activation of the hydraulic cab riser is modular, and thus,

allows the operator to control the riser speed and decrease shocks. In case of emergency, the cab can be lowered while using a safety lever either inside the cab or inside the radiator compartment.



Bottom Position. The bottom position is used for shipping and travel.



Medium Position. The medium position places the cab forward by 500 mm more than in the travel position, for increased visibility.



Top Position. The top position raises the cab by 2600 mm. This provides optimal viewing to all sides in different applications such as scrap handling and port handling. The cab can be positioned at any level between lowest and highest positions.

Cab Access

The M325D MH and M325D LMH are equipped with a newly designed cab access system.



Cab Access System. The M325D MH and M325D LMH can be equipped with a newly designed cab access system. This cab features an additional cab platform with handrails located to provide the operator with safe ingress and egress.

Structures

The M325D MH and M325D LMH structural components are the backbone of the machine's durability. Durable frames absorb stresses and provide excellent stability.

Purpose Designed Upper Structure and Counterweight.

The upper structure is specifically designed for the scrap and material handling markets. It is built of higher strength material and thicker steel sections to handle the increased swing loads developed with the longer front parts, heavier counterweights and cab risers used in Material Handling.

Strong and Stable Undercarriage. The M325D MH and M325D LMH wheeled undercarriages provide maximum rigidity and long service life.

- The hydraulic lines are routed through the frame, and the cylinders have heavy-duty guards to provide protection from damage.
- The front axle on M325D MH and the rear axle on M325D LMH offer great oscillating angles. The transmission is mounted in the center of the undercarriage for protection and optimum ground clearance.
- The M325D MH includes 4 dual 12.00-20 solid rubber tires, and the M325D LMH is equipped with 4 single 16.00-25 solid rubber tires. Optional pneumatic tires are also available.
- Tool boxes are available.

Material Handling Front Parts. Select the right combination of front linkage with your Cat dealer to ensure high productivity from the very start of your job. The 3 sets of front parts meet your material handling needs with excellent lift performance and working range when operating in close or at full reach. Built for strong performance and long service life.

Efficient Design of Welded Box-section Structures.

The design with thick, multi-plate fabrications in high stress areas allows structures to flex, dissipating stresses and maximizing strength.

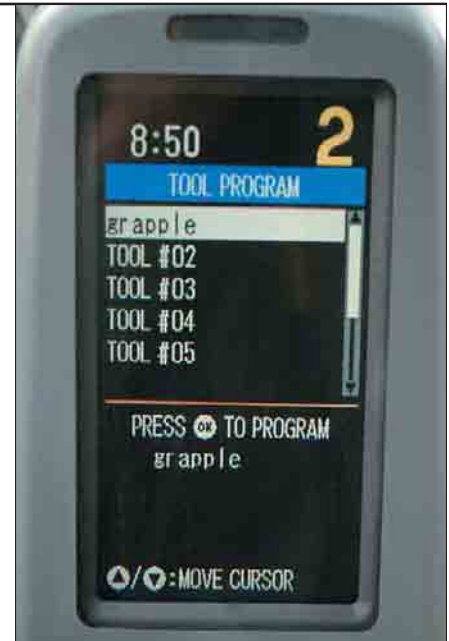
- Finite element analysis is used in the determination of structural stresses and enables optimization of weight, durability and performance.
- Internal baffle plates provide additional strength and durability throughout the structure to withstand torsional loads.
- Robotic welding: up to 95% of the structural welds on a Cat material handler are completed by robots. Robotic welds achieve over three times the penetration of manual welds.
- Stress relieving: M325D LMH booms and sticks are stress relieved, thanks to heat treatment, to maximize strength for greater durability.



Work Tools – Attachments

A variety of grapples and clamshells are available to maximize machine performance in material handling applications.

			M325D MH		M325D LMH		
			8850 mm		8850 mm		
			6000 mm	7420 mm	5000 mm	6000 mm	7420 mm
Rehandling Clamshell Buckets	GOS-35	0.62 – 0.7			X		
		0.78			X		
		1.05			X		
		1.26		N	X		
		1.46		N	X		
		1.67		N	X		N
	GOS-45	0.97			X		
		1.12		N	X		
		1.27		N	X		
		1.58		N	X		N
		1.71 – 2.02	N	N	X		N
		2.34	N	N	X	N	N
Orange Peel Grapples (5 tines)	GSM-35	0.5			X		
		0.6 – 0.8			X		
		1.0		N	X		
	GSM-45	0.6		N	X		
		0.8		N	X		
		1.0		N	X		N
	GSH20B	1.25	N	N	X		N
		0.6			X		
		0.8		N	X		
	GSH22B	1.0		N	X		
		0.6		N	X		
		0.8		N	X		N
Orange Peel Grapples (4 tines)	GSH20B	1.0	N	N	X		N
		0.6	N		X		
		0.8			X		
	GSH22B	1.0		N	X		
		0.6		N	X		
		0.8		N	X		N
Multi Grapples	G320B-D, -R	1.25	N	N	X		N
		0.6			X		
		0.8			X		
Hydraulic Shears	S320	–	X	X		X	X
Quick Coupler	CW-40, -40S	–	X	X		X	X



Work tools have been calculated with machine in stability position; over-the-side and at maximum horizontal reach at approximately 2 meters above ground level. When choosing a work tool please consider work tool application, productivity requirements and durability. Refer to work tool specifications for application recommendations and productivity information. Check with your Cat dealer for more details on specifications, sizes and other work tool types.



- Max. material density 3000 kg/m³
- Max. material density 1800 kg/m³
- Max. material density 1200 kg/m³
- N Not recommended
- X Not compatible
- Quick coupler match
- Recommended for restricted working ranges

Service and Maintenance

Simplified service and maintenance save you time and money.



Air Filter Compartment. The air filter features a double-element construction for superior cleaning efficiency. When the air cleaner plugs, a warning is displayed on the monitor screen inside the cab.

Service. The design and layout was made with the service technician in mind. Many service locations are easily accessible by ascending to the maintenance walkways allowing critical maintenance to get done quickly and efficiently.

Pump Compartment. A service door on the right side of the upper structure allows access to the pump and pilot filter.

Capsule Filter. The hydraulic return filter, a capsule filter, is situated outside the hydraulic tank. This filter prevents contaminants from entering the system when hydraulic oil is changed and keeps the operation clean.

Diagnostics and Monitoring. Equipped with S•O•SSM sampling ports and hydraulic test ports for the hydraulic system, engine oil, and for coolant. A test connection for the Electronic Technician (ET) service tool is located behind the cab.

Anti-Skid Plate. Anti-skid plate covers top of and maintenance walkways and upper structure to prevent slipping during maintenance.

Fan Guard. Engine radiator fan is completely enclosed by fine wire mesh, reducing the risk of an accident.

Greasing Points. Concentrated remote greasing blocks deliver grease to hard-to-reach locations on the Material Handlers.

Radiator Compartment. The left rear service door allows easy access to the engine radiator, oil cooler and air-to-air aftercooler. Reserve tank and drain cock are attached to the radiator for simplified maintenance.



Extended Service Intervals. M325D service and maintenance intervals have been extended to reduce machine service time and increase machine availability.

Complete Customer Support

Cat dealer services help you operate longer with lower costs.



Machine Selection. Make detailed comparisons of the machines you are considering before you buy. What are the job requirements, machine attachments and operating hours? What production is needed? Your Cat dealer can provide recommendations.

Purchase. Consider the financing options available as well as day-to-day operating costs. This is also the time to look at dealer services that can be included in the cost of the machine to yield lower equipment owning and operating costs over the long run.

Customer Support Agreements.

Cat dealers offer a variety of product support agreements, and work with customers to develop a plan that best meets specific needs. These plans can cover the entire machine, including attachments, to help protect the customer's investment.

Operation. Improving operating techniques can boost your profits. Your cat dealer has videotapes, literature and other ideas to help you increase productivity, and Caterpillar offers certified operator training classes to help maximize the return on your investment.

Product Support. You will find nearly all parts at our dealer parts counter. Cat dealers utilize a worldwide computer network to find in-stock parts to minimize machine downtime. You can save money with Cat remanufactured components.

Maintenance Services. Repair option programs guarantee the cost of repairs up front. Diagnostic programs such as Scheduled Oil Sampling, Coolant Sampling and Technical Analysis help you avoid unscheduled repairs.

Replacement. Repair, rebuild or replace? Your Cat dealer can help you evaluate the cost involved so you can make the right choice.

Engine

Cat C7 Engine with ACERT Technology

Net power at 1800 rpm

ISO 9249	140 kW/190 hp
80/1269/EEC	140 kW/190 hp

Bore 110 mm

Stroke 127 mm

Displacement 7.2 liters

- All engine horsepower (hp) are metric including front page.
- The C7 engine meets Stage IIIA emission requirements.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator.
- Full engine net power up to 2300 m altitude

Service Refill Capacities

	Liter
Fuel tank capacity	520
Cooling system	30
Engine oil	30
Rear axle housing	19
Front steering axle	24
Final drive	2.5
Powershift transmission	2.9
Hydraulic system (including tank)	310

Weights

	M325D MH	M325D LMH
	kg	kg
Boom	3730	3925
Sticks		
5000 mm	–	1200
6000 mm	1290	1390
7420 mm	1510	1650
Upper structure	8750	8750
Undercarriage	11 080	13 240
Counterweight	5800	7700
Operating weights without tool		
5000 mm stick		
with solid rubber tires	–	35 560
with pneumatic tires	–	34 680
6000 mm stick		
with solid rubber tires	30 650	35 000
with pneumatic tires	29 550	34 120
7420 mm stick		
with solid rubber tires	30 870	35 260
with pneumatic tires	29 770	34 380

Hydraulic System

Main System

Maximum flow 2 x 235 l/min

Maximum pressure

Normal 350 bar

Heavy lift 360 bar

Travel 350 bar

Swing 275 bar

Pilot System

Maximum flow 32.4 l/min

Maximum pressure 39 bar

Transmission

	M325D MH	M325D LMH
Maximum travel speed	20 km/h	18 km/h
Drawbar pull	149 kN	167 kN

Swing Mechanism

Swing speed 8.5 rpm

Swing torque 78 kNm

Maximum pressure 260 bar

Tires

	M325D MH	M325D LMH
Standard	Dual	Single
Solid Rubber	12.00-20	16.00-25
Optional	Dual	Single
Pneumatic	11.00-20	23.5 R 25

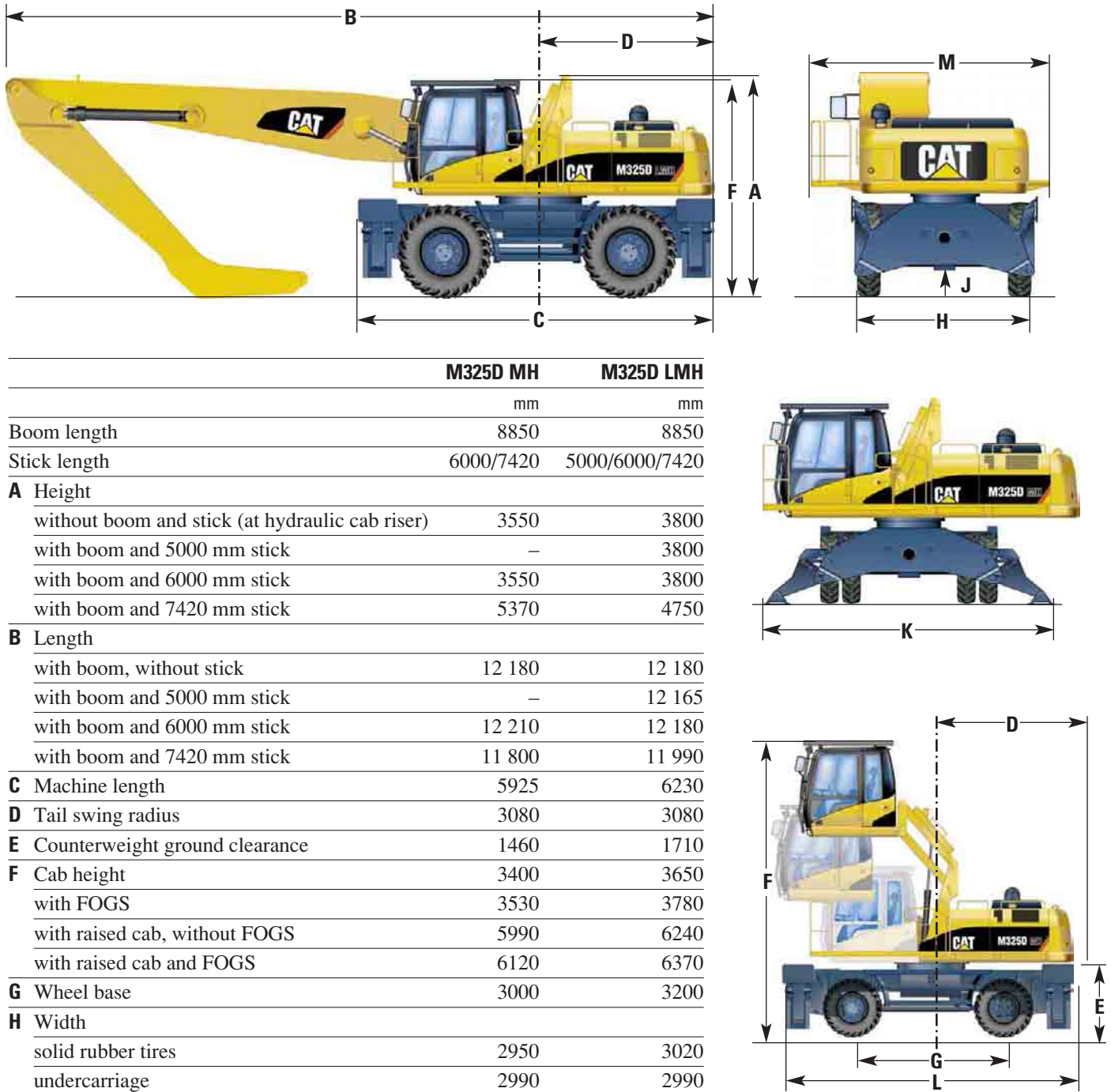
Sound Levels

Operator Sound. The operator sound level measured according to the procedures specified in ISO 6394:1998 is 76 dB(A), for cab offered by Caterpillar, when properly installed and maintained and tested with the doors and windows closed. Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in noisy environment.

Exterior Sound. The labeled spectator sound power level measured according to the test procedures and conditions specified in 2000/14/EC is 104 dB(A).

Dimensions

All dimensions are approximate.



	M325D MH	M325D LMH
	mm	mm
Boom length	8850	8850
Stick length	6000/7420	5000/6000/7420
A Height		
without boom and stick (at hydraulic cab riser)	3550	3800
with boom and 5000 mm stick	–	3800
with boom and 6000 mm stick	3550	3800
with boom and 7420 mm stick	5370	4750
B Length		
with boom, without stick	12 180	12 180
with boom and 5000 mm stick	–	12 165
with boom and 6000 mm stick	12 210	12 180
with boom and 7420 mm stick	11 800	11 990
C Machine length	5925	6230
D Tail swing radius	3080	3080
E Counterweight ground clearance	1460	1710
F Cab height	3400	3650
with FOGS	3530	3780
with raised cab, without FOGS	5990	6240
with raised cab and FOGS	6120	6370
G Wheel base	3000	3200
H Width		
solid rubber tires	2950	3020
undercarriage	2990	2990
without steps, pads, handrails, platform*	3020	3035
with steps	3020	3140
with steps and pads	3275	3230
J Ground clearance	250	270
K Width with stabilizers on ground	4865	5240
L Undercarriage length	5805	6230
M Upper structure width		
with walkways	3740	3740
with walkways and platform	4020	4020

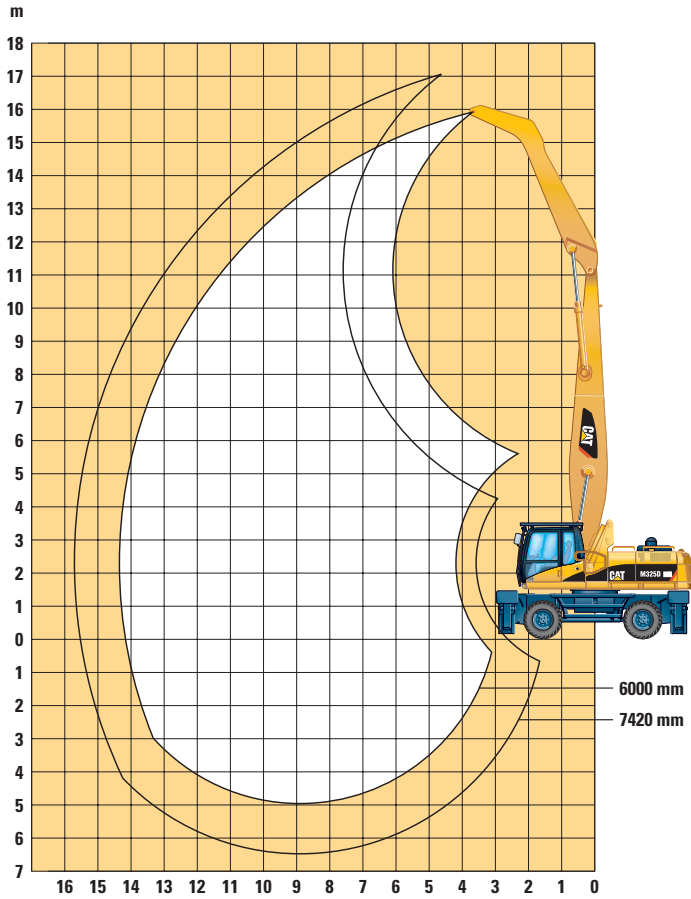
* Minimum shipping dimension

Cab

Cab/FOGS meets ISO 10262.

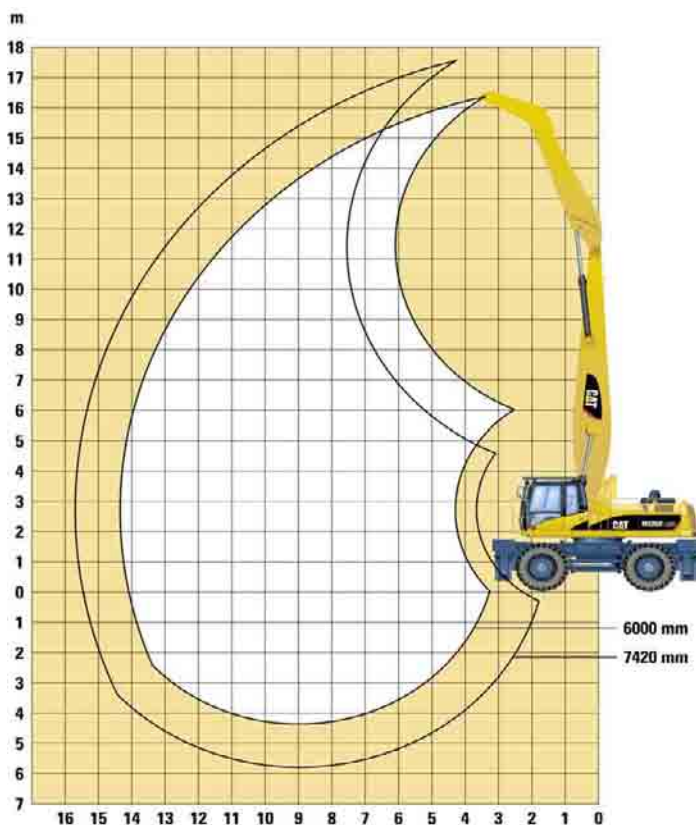
Working Ranges

M325D MH with 6000 mm and 7420 mm sticks.



	mm
Boom length	8850
Stick length	6000
Maximum horizontal reach	14 330
Maximum height	15 990
Maximum depth	5000
Stick length	7420
Maximum horizontal reach	15 670
Maximum height	17 140
Maximum depth	6420

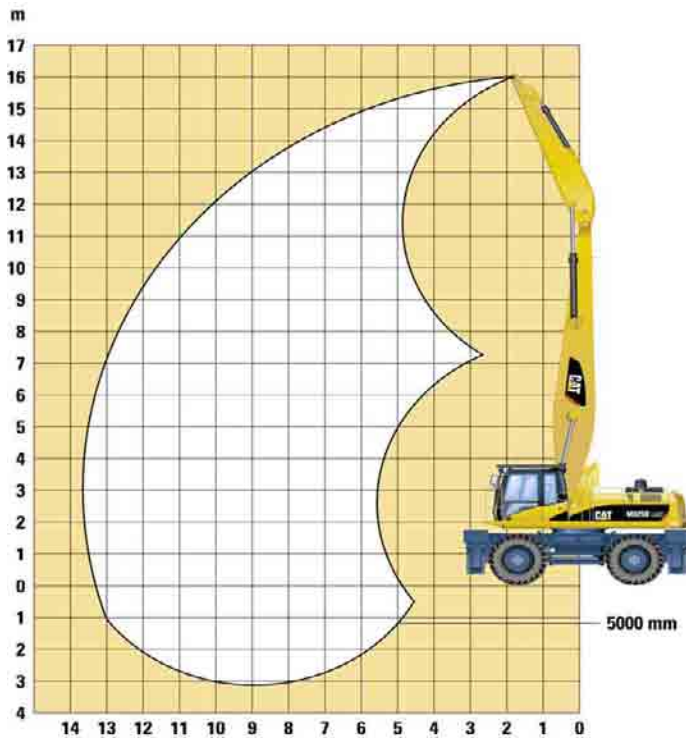
M325D LMH with 6000 mm and 7420 mm sticks.



	mm
Boom length	8850
Stick length	6000
Maximum horizontal reach	14 340
Maximum height	16 380
Maximum depth	4370
Stick length	7420
Maximum horizontal reach	15 670
Maximum height	17 570
Maximum depth	5790

Working Ranges

M325D LMH with 5000 mm stick.




	mm
Boom length	8850
Stick length	5000
Maximum horizontal reach	13 670
Maximum height	16 190
Maximum depth	3110

M325D LMH – Lift Capacities

Heavy lift mode. All weights are in kg.

Boom: 8850 mm – **Stick:** 5000 mm – **Maximum Reach / Height / Depth:** 13 670 / 16 190 / 3110 mm

m	Undercarriage configuration	3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		13.5 m		15.0 m		 m					
		Stabilizers up	Stabilizers down	Stabilizers up	Stabilizers down	Stabilizers up	Stabilizers down	Stabilizers up	Stabilizers down	Stabilizers up	Stabilizers down	Stabilizers up	Stabilizers down	Stabilizers up	Stabilizers down	Stabilizers up	Stabilizers down	Stabilizers up	Stabilizers down	Stabilizers up	Stabilizers down				
15.0 m	Stabilizers up			*10580	*10580															*8950	*8950	5.35			
	Stabilizers down			*10940	*10940															*8430	*8430	5.93			
13.5 m	Stabilizers up			*11670	*11670	*10480	9840	*8400	6760											*7010	5940	8.04			
	Stabilizers down			*11750	*11750	*10690	*10690	*8900	*8900											*6820	*6820	8.39			
12.0 m	Stabilizers up					*10690	10030	9100	6980	6660	5080										5680	4290	9.80		
	Stabilizers down					*10670	*10670	*9240	*9240	*8220	*8220										*6110	*6110	10.05		
10.5 m	Stabilizers up					*10700	10010	9110	6990	6730	5140	5130	3870								4620	3460	11.07		
	Stabilizers down					*10730	*10730	*9230	*9230	*8150	*8150	*7300	*7300								*5710	*5710	11.26		
9.0 m	Stabilizers up			*12530	*12530	*11040	9800	8980	6870	6670	5080	5140	3880	4010	2970						3990	2950	12.03		
	Stabilizers down			*12690	*12690	*11130	*11130	*9450	*9450	*8240	*8240	*7300	*7300	*6290	*6290						*5500	*5500	12.17		
7.5 m	Stabilizers up	*11300	*11300	*14280	*14280	*11690	9390	8710	6620	6520	4940	5070	3810	4020	2980						3590	2630	12.73		
	Stabilizers down	*11600	*11600	*14980	*14980	*11840	*11840	*9830	*9830	*8430	*8430	*7360	*7360	*6470	6410						*5400	*5400	12.83		
6.0 m	Stabilizers up			*16570	13570	11790	8780	8350	6270	6300	4730	4940	3690	3960	2920							3330	2410	13.23	
	Stabilizers down			*16920	*16920	*12730	*12730	*10280	*10280	*8650	*8650	*7450	*7450	*6460	6340							*5390	5360	13.30	
4.5 m	Stabilizers up					10990	8040	7910	5870	6050	4490	4790	3540	3880	2840	3180	2290					3160	2280	13.54	
	Stabilizers down					*13510	*13510	*10670	*10670	*8830	*8830	*7490	*7490	*6410	6250	*5300	5200					*5220	5150	13.58	
3.0 m	Stabilizers up					10240	7350	7500	5480	5790	4250	4630	3390	3790	2750	3150	2260					3080	2210	13.68	
	Stabilizers down					*13640	*13640	*10810	*10810	*8850	*8850	*7430	*7430	*6260	6150	*5060	*5060					*4850	*4850	13.69	
1.5 m	Stabilizers up					*8540	6890	7170	5170	5580	4050	4490	3260	3710	2670	3110	2230					3060	2190	13.65	
	Stabilizers down					*8190	*8190	*10530	*10530	*8630	*8630	*7180	*7180	*5960	*5960	*4610	*4610					*4440	*4440	13.63	
0.0 m	Stabilizers up					*7750	6660	6950	4970	5430	3910	4390	3160	3650	2620								3120	2230	13.45
	Stabilizers down					*7820	*7820	*9780	*9780	*8090	*8090	*6700	*6700	*5430	*5430								*3950	*3950	13.40
-1.5 m	Stabilizers up					*8580	6610	6860	4880	5350	3830	4340	3110	3630	2600										
	Stabilizers down					*8800	*8800	*8560	*8560	*7180	*7180	*5890	*5890	*4580	*4580										
-3.0 m	Stabilizers up							6860	4880	5340	3820	4340	3110												
	Stabilizers down									*5850	*5850														

Standard Equipment

Standard equipment may vary. Consult your Caterpillar dealer for specifics.

Electrical

24 V electric starting
65 A alternator
Warning horn
Working lights (5)
boom (1), stick (1), cab frame (1), genset box (1)

Operator Environment

12 V/7 A power supply for radio and multipurpose socket
Adjustable pilot operated joystick type (wrist lever) controls
each with 3 on/off buttons and 1 sliding switch
Alternate exit: hammer to break rear window glass
Ashtray with lighter
Automatic climate control with bi-level air conditioner,
heater and defroster
Beverage holder
Bolt-on FOGS capability
EU Sound criteria package
Floor mat
Interior lighting and coat hook
Instrumental panel and gauges
Heavy Lift mode selection
Monitor
Full graphic and full color display with language capability
Warning information, filter and fluid change information
Working hour information
Machine condition, error code and tool mode setting
information
Start up level check for hydraulic oil, engine oil and
engine coolant
Neutral lever lockout for all controls
Parking brake
Polycarbonate skylight
Positive filtered ventilation (pressurized cab)
Radio mounting (DIN), with antenna and mounting for two
stereo speakers
Rear window, emergency exit
Sliding door window
Storage compartment suitable for lunch box
Sun shade for skylight and front windshield
Tilttable steering column
Travel control pedals
Windshield wiper (parallel type) and washers
Wiring provision for electrical seat heating and rotating beacon

Engine

Automatic engine speed control with one-touch low idle
switch
Caterpillar C7 diesel engine (140 kW)
Stage IIIA emission
Altitude capability to 2300 m
Caterpillar extended life coolant
Fuel economy mode
Fuel filter
High ambient cooling system
Muffler

Secondary engine shut-off switch
Side-by-side cooling system with
separately mounted AC condenser
Water separator in fuel line

Undercarriage

Creeper speed
Exclusive 3 position transmission braking controls
Four wheel hydrostatic drive with on-the-go shifting
Four independent or simultaneously controlled hydraulic
stabilizers with single axis float pad
Fully hydraulic braking system
Hydraulic maximum speed limiter
Internal oil disk brakes
Lockable oscillating axle
Tires
Four Dual 12.00-20 solid rubber tires on M325D MH
Four 16.00-25 single solid rubber tires on M325D LMH
Toolbox, left hand
Two speed hydrostatic transmission
Two wheel steer
Wide steps on both sides

Other Standard Equipment

Automatic swing parking brake
Boom and stick regeneration circuit
Capability to add auxiliary valve and attachment hydraulic
pump and controls.
Cat Data Link
Cat 2600 mm hydraulically adjustable cab riser
Counterweight Material Handling
Counterweight with lifting eyes
Cross-roller type swing bearing
Doors and cab lock with Caterpillar one key security system
Fine swing control
Fire wall between pump compartment and engine
Heavy duty upper structure with bottom guards
Mirrors (frame right, cab left)
Overheating protection system
Separate hydraulic filter with re-useable metal tube for
the filter element (no drop oil filter)
S•O•SSM quick sampling valves for engine oil, hydraulic oil
and coolant
Sound suppression, meets EU sound level regulation
2000/14/EC
Travel alarm
Wiring provisions for Cat Product Link

Hydraulic System

High pressure grapples open-close hydraulic circuit
High pressure lines with CVC Quick Disconnects (male)
Hydraulic and electric circuits for:
boom lowering check valves
stick lowering check valves
SmartBoom
Medium pressure functions
(hydraulic cab riser and grapple rotate)
Medium pressure lines with CVC Quick Disconnects (male)

Optional Equipment

Optional equipment may vary. Consult your Caterpillar dealer for specifics.

Operator Compartment

Converter 12 V/7 A

Cover for storage compartment, suitable for a lunch box

Machine Security System with programmable keys

Radio

AM/FM radio mounted in right hand side console
with antenna and speakers

Radio ready mounting rear location including
24 V to 12 V converter

Seat

Adjustable high-back seat with air suspension

Adjustable high-back seat with mechanical suspension

Headrest

Visor Rain protector

Windshield

1-piece standard heavy duty

50/50 split, sliding

70/30 split, sliding

Front Parts

M325D MH – 30 metric tons:

Boom, Material Handling 8850 mm

Stick, drop nose, Material Handling 6000 mm

Stick, drop nose, Material Handling 7420 mm

M325D LMH – 36 metric tons:

Boom, Material Handling, 8850 mm

Stick, straight, Material Handling, 5000 mm with additional
pedal to control grapple open/close

Optional bucket linkage for straight stick, 5000 mm

Stick, drop nose, Material Handling, 6000 mm

Stick, drop nose, Material Handling, 7420 mm

Undercarriage

Additional toolbox

On M325D MH

dual pneumatic tires 11.00-20

On M325D LMH

single pneumatic tires 23.5 R 25

Miscellaneous Options

Antifreeze, -50°C

Beacon, rotating

Bio hydraulic oil package

Falling Object Guard, FOGS, bolt-on,
with working lights

Lights, working, 2 front and 1 rear

Starting aid cold weather

Generator control circuit

Generator, 20 kW

M325D MH and M325D LMH Wheeled Material Handlers

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

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

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