

# M325D LMH Millyard

## Wheel Material Handler



**The Cat® M325D LMH Material Handler incorporates innovations for excellent performance, efficiency and versatility in millyard applications.**

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

### **Cat C7 Engine with ACERT™ Technology**

ACERT Technology works at the point of combustion to optimize engine performance and provide low exhaust emissions to meet standards equivalent to U.S. EPA Tier 3/ EU Stage III, with exceptional performance capabilities, fuel efficiency and proven reliability.

### **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 hydraulics system provides efficient performance, unmatched in the industry, designed to provide reliability and outstanding controllability with increased lifting capacity. The Heavy Lift Mode maximizes lifting performance while maintaining excellent stability.

### **Purpose Designed Structures**

The structural components are the backbone of the machine's durability.

The upperframe is specifically designed for log handling applications. Built with high grade steel, this machine can handle the increased swing loads developed with the longer front parts, heavier counterweights, and cab risers used in material handling.

### **Serviceability**

For increased safety, all daily maintenance points are accessible. Centralized grease points allow for convenient lubrication of critical points.

### **Operator Comfort**

Designed for ease of operation, high visibility, and comfort, the operator station allows the operator to focus on production. With the material handling job in mind, this machine is equipped with a 2.6 m (8'6") hydraulic cab riser to maximize viewing to all sides of the machine.

### **Undercarriage**

The M325D LMH wheeled undercarriage provides maximum rigidity and long service life.



# M325D LMH Millyard Wheel Material Handler Specifications

## Engine

Engine Model	Cat C7 ACERT	
Net Power – ISO 9249 – M325D LMH	152 kW	204 hp
Displacement	7.2 L	439 in <sup>3</sup>
Net Power – EEC 80/1269 – M325D LMH	152 kW	204 hp

- Meets standards equivalent to U.S. EPA Tier 3/EU Stage III.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator.
- No engine derating is required below 3000 m (9,842.5 ft) altitude.

## Operating Specifications

Maximum Travel Speed – M325D LMH	18 km/h	11 mph
Maximum Reach – 5.7 m (18 ft 8 in)	14.38 m	47 ft 2 in
Maximum Reach – Log Loading	12.79 m	42 ft 0 in

## Hydraulic System

Maximum Flow (each of two pumps)	235 L/min	62 gal/min
Maximum Pressure Implements	35 000 kPa	5,076 psi
Maximum Pressure Travel	35 000 kPa	5,076 psi
Maximum Pressure Swing	27 500 kPa	7,265 psi
Rotate Circuit for Grapple Maximum Flow	57 L/min	15 gal/min
Rotate Circuit for Grapple Maximum Pressure	13 789 kPa	2,000 psi
Generator Auxiliary Pump Maximum Flow	159 L/min	42 gal/min
Generator Auxiliary Pump Maximum Pressure	17 237 kPa	2,500 psi

## Weights

Operating Weight – M325D LMH	36 500 kg	80,470 lb
Upper	8750 kg	19,290 lb
Counterweight – M325D LMH	7700 kg	16,976 lb
Undercarriage – M325D LMH	13 236 kg	29,180 lb

## Performance

Maximum Drawbar Pull	158.7 kN	35,677 lb
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## Trailer Towing

Maximum weight of the trailer and payload	50 000 kg	110,250 lb
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## Swing Mechanism

Swing Torque	82.2 kN·m	60,628 lb ft
Swing Speed	10.2 rpm	

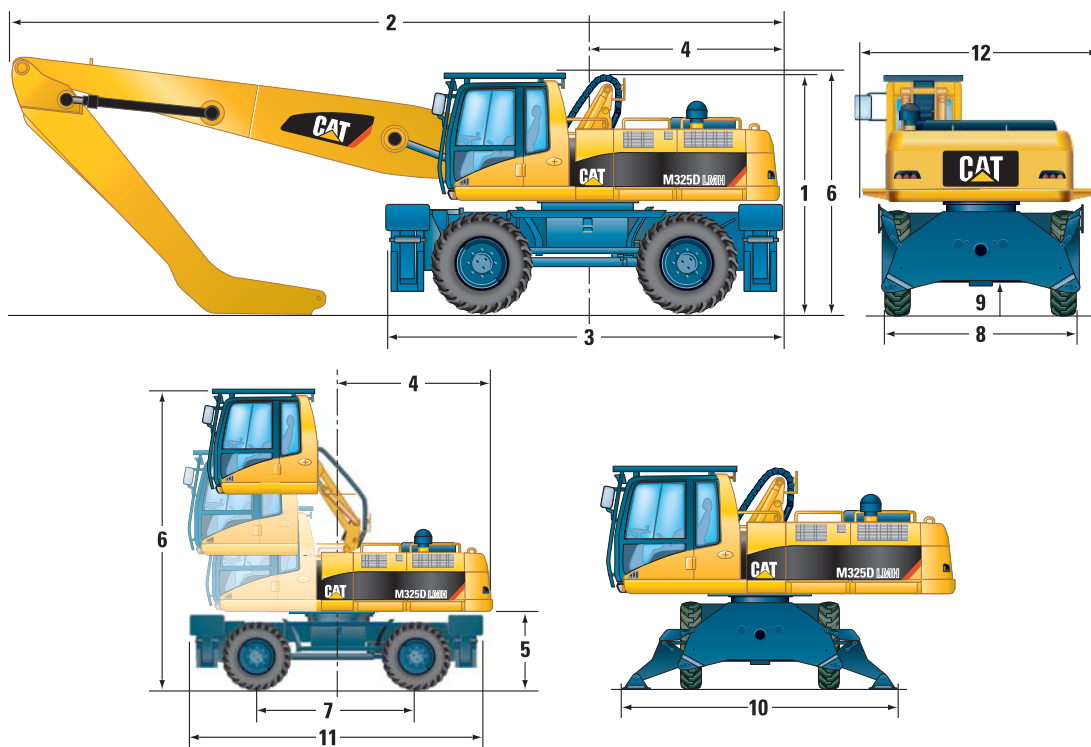
## Service Refill Capacities

Fuel Tank	520 L	137 gal
Cooling System	30 L	7.93 gal
Engine Oil	34 L	8.98 gal
Final Drive (each)	2.5 L	0.66 gal
Hydraulic System (including tank)	310 L	81.9 gal

# M325D LMH Millyard Wheel Material Handler Specifications

## Dimensions

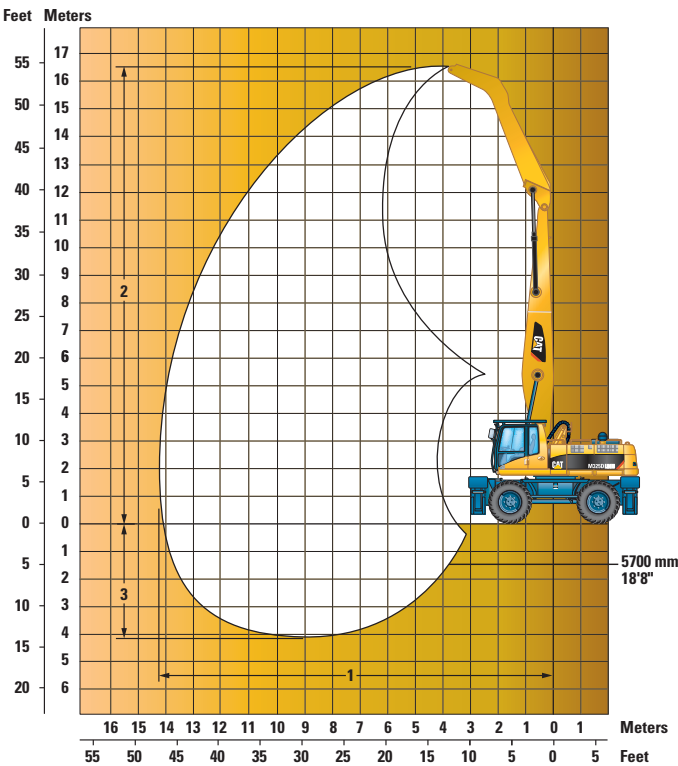
All dimensions are approximate.



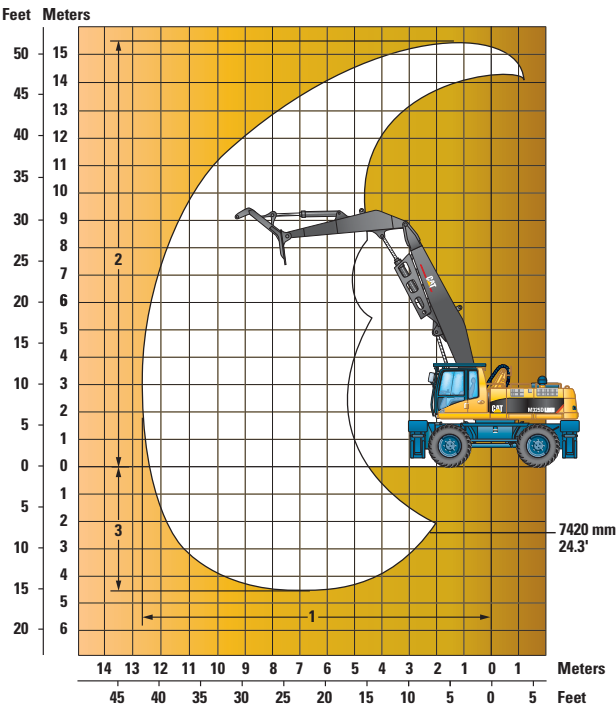
M325D LMH		
Boom Length	9.3 m (30'6")	9.3 m (30'6")
Stick Length	5.7 m (18'8")	7.1 m (23'4")
<b>1</b> Shipping Height		
Without Stick	3.73 m (12'3")	3.73 m (12'3")
With Boom and Stick	3.73 m (12'3")	3.73 m (12'3")
<b>2</b> Shipping Length		
Without Stick	12.7 m (41'8")	12.7 m (41'8")
With Boom and Stick	12.7 m (41'8")	12.7 m (41'8")
<b>3</b> Machine Length	6.24 m (20'6")	6.24 m (20'6")
<b>4</b> Tail Swing Radius	3080 mm (10'1")	3080 mm (10'1")
<b>5</b> Counterweight Ground Clearance	1711 mm (5'7")	1711 mm (5'7")
<b>6</b> Cab Height (lowered)	3648 mm (12'0")	3648 mm (12'0")
With FOG	3778 mm (12'5")	3778 mm (12'5")
Cab Height (raised)	6242 mm (20'6")	6242 mm (20'6")
With FOGS	6372 mm (20'11")	6372 mm (20'11")
<b>7</b> Wheel Base	3200 mm (10'6")	3200 mm (10'6")
<b>8</b> Shipping Width	2990 mm (9'10")	2990 mm (9'10")
Outside Tires	3020 mm (9'11")	3020 mm (9'11")
Outside Stabs	3235 mm (10'7")	3235 mm (10'7")
<b>9</b> Ground Clearance	270 mm (11")	270 mm (11")
<b>10</b> Width with Stabilizers on Ground	5240 mm (17'2")	5240 mm (17'2")
<b>11</b> Undercarriage Length	6230 mm (20'5")	6230 mm (20'5")
<b>12</b> Body Width	2990 mm (9'10")	2990 mm (9'10")
Including Steps	3722 mm (12'3")	3722 mm (12'3")
Including Cab Platform	3995 mm (13'1")	3995 mm (13'1")

# M325D LMH Millyard Wheel Material Handler Specifications

## Working Ranges



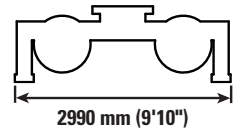
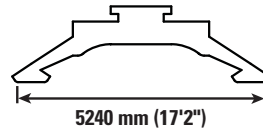
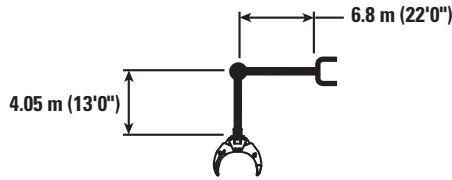
MH Boom	
Boom Length	9.3 m (30'6")
Stick Length	5.7 m (18'8")
1 Maximum Reach	14.33 m (47'0")
2 Maximum Height	16.6 m (54'9")
3 Maximum Depth	4.1 m (13'4")

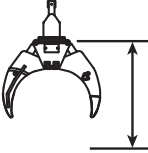
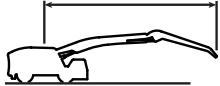










Log Loader Linkage with Heel (Over/Under)	
1 Maximum Reach	12.79 m (42'0")
2 Maximum Height	15.38 m (50'6")
3 Maximum Depth	4.4 m (14'5")

# M325D LMH Millyard Wheel Material Handler Specifications

## M325D LMH Lift Capabilities – Log Loader Linkage: Over/Under – Grapple Not Installed



		3.0 m/ 10.0 ft	4.5 m/ 15.0 ft	6.0 m/ 20.0 ft	7.5 m/ 25.0 ft	9.0 m/ 30.0 ft	10.5 m/ 35.0 ft	12.0 m/ 40.0 ft		
										m ft
13.5 m 45.0 ft	kg lb		14 050 30,980	10 950 24,145					10 000 22,050	6.2 20.3
12.0 m 40.0 ft	kg lb			10 750 23,704	9650 21,278				7750 17,089	8.4 27.6
10.5 m 35.0 ft	kg lb			10 150 22,381	9100 20,066	8300 18,302			6750 14,884	9.8 32.2
9.0 m 30.0 ft	kg lb			10 000 22,050	8950 19,735	8100 17,861	7300 16,097		6150 13,561	10.9 35.8
7.5 m 25.0 ft	kg lb			10 300 22,712	9100 20,066	8150 17,971	7250 15,986		5800 12,789	11.7 38.4
6.0 m 20.0 ft	kg lb			10 950 24,141	9450 20,837	8300 18,302	7250 15,986	6150 13,561	5600 12,348	12.2 40.0
4.5 m 15.0 ft	kg lb			12 000 26,460	9950 21,940	8500 18,743	7300 16,097	6100 13,451	5350 11,797	12.5 41.0
3.0 m 10.0 ft	kg lb			13 000 28,665	10 450 23,042	8650 19,073	7250 15,986	5900 13,010	4850 10,694	12.7 41.7
1.5 m 5.0 ft	kg lb			13 600 29,988	10 650 23,483	8650 19,073	7050 15,545	5500 12,128	4300 9,482	12.7 41.7
0.0 m 0.0 ft	kg lb		10 850 23,924	13 400 29,547	10 400 22,932	8300 18,302	6600 14,553	4650 10,253	3600 7,938	12.4 40.7
-1.5 m -5.0 ft	kg lb		10 400 22,932	12 250 27,011	9550 21,058	7500 16,538	5650 12,458	2900 6,395		
-3.0 m -10.0 ft	kg lb	6300 13,892	12 200 26,901	10 100 22,271	7900 17,420	6000 13,230	3950 8,710			
-4.5 m -15.0 ft	kg lb			6950 15,325	5350 11,797					



ISO 10567

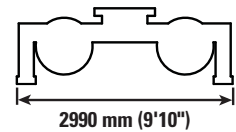
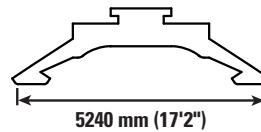
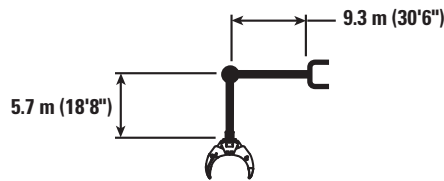


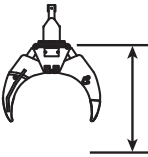
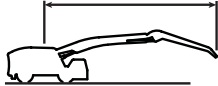








Capacities marked with an asterisk (\*) are limited by hydraulic capacity. Lift capacities are in compliance with SAE J2518 "Lift Capacity Calculation Method – Scrap and Material Handlers." Lifting capacities shown do not exceed 75% of minimum tipping loads or 87% of hydraulic capacity. Least stable position is over the side. Lifting capacities shown should not be exceeded. Weight of the grapple, magnet and all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm uniform level supporting surface with the outrigger legs down. User must make allowances for job condition such as soft or uneven ground. Capacities apply only to the machine as originally manufactured and normally equipped by the manufacturer. Total weight of the machine is 35 950 kg (79,260 lb) equipped with a 12.8 m (42'0") boom/stick. Weight does not include the grapple, magnet, or attaching hardware.

Operator should be fully acquainted with the Operators Manual and the Operating Safety Manual furnished by the manufacturer before operating the machine.

# M325D LMH Millyard Wheel Material Handler Specifications

## M325D LMH Lift Capabilities – Material Handling Boom/Drop Nose Stick – Grapple Not Installed



		4.5 m/ 15.0 ft	6.0 m/ 20.0 ft	7.5 m/ 25.0 ft	9.0 m/ 30.0 ft	10.5 m/ 35.0 ft	12.0 m/ 40.0 ft	13.5 m/ 45.0 ft		
										m ft
15.0 m 50.0 ft	kg lb		7750 17,089						6350 14,002	7.0 23.0
13.5 m 45.0 ft	kg lb		9200 20,286	8000 17,640	6000 13,230				5600 12,348	9.2 30.3
12.0 m 40.0 ft	kg lb		10 100 22,271	8900 19,625	7950 17,530	5800 12,789			5200 11,466	10.8 35.4
10.5 m 35.0 ft	kg lb		10 350 22,822	8950 19,735	7900 17,420	7100 15,656			5000 11,025	12.0 39.2
9.0 m 30.0 ft	kg lb		10 750 23,704	9150 20,176	8050 17,750	7150 15,766	6450 14,222		4950 10,915	12.8 42.1
7.5 m 25.0 ft	kg lb	14 350 31,642	11 400 25,137	9550 21,058	8250 18,191	7250 15,986	6450 14,222		4900 10,805	13.5 44.3
6.0 m 20.0 ft	kg lb	16 100 35,501	12 300 27,122	10 000 22,050	8500 18,743	7350 16,207	6500 14,333	5700 12,569	5000 11,025	14.0 45.8
4.5 m 15.0 ft	kg lb	17 900 39,470	13 150 28,996	10 450 23,042	8700 19,184	7450 16,427	6500 14,333	5600 12,348	5100 11,246	14.3 46.8
3.0 m 10.0 ft	kg lb		13 600 29,988	10 700 23,594	8800 19,404	7450 16,427	6400 14,112	5500 12,128	4900 10,805	14.4 47.2
1.5 m 5.0 ft	kg lb		10 250 22,601	10 600 23,373	8700 19,184	7350 16,207	6250 13,781	5250 11,576	4600 10,143	14.4 47.1
0.0 m 0.0 ft	kg lb	3950 8,710	8550 18,853	10 050 22,160	8350 18,412	7000 15,435	5900 13,010	4800 10,584	4250 9,371	14.2 46.5
-1.5 m -5.0 ft	kg lb		8550 18,853	9100 20,066	7650 16,868	6400 14,112	5300 11,687	4150 9,151	3850 8,489	13.8 45.3
-3.0 m -10.0 ft	kg lb			7750 17,089	6600 14,553	5550 12,238	4450 9,812			



ISO 10567



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Operator should be fully acquainted with the Operators Manual and the Operating Safety Manual furnished by the manufacturer before operating the machine.

# M325D LMH Millyard Wheel Material Handler Standard Equipment

## Standard Equipment

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

### ELECTRICAL

- 65 ampere alternator
- Light, genset box mounted
- Lights, cab mounted (one)
- Warning horn (front)
- Heavy duty batteries

### OPERATOR ENVIRONMENT

- AM-FM radio
- 12V-7A power supply for radio and multipurpose socket
- Ashtray with lighter
- Beverage holder
- Interior lighting
- Coat hook
- Suspension seat with headrest
- Wiring provision for electrical seat heating
- Floor mat
- Positive filtered ventilation (pressurized cab)
- Instrumental panel and gauges
- Parking brake
- FOGS guard
- Sliding door window
- Polycarbonate skylight
- Sun shade for skylight and front windshield
- Windshield wiper (parallel type) and washers
- Alternate exit: hammer to break rear window glass
- Automatic climate control with bi-level air conditioner, heater, and defroster
- Tilttable steering column
- Travel control pedals
- Tilttable steering column
- Storage compartment with cover suitable for lunch box
- Neutral lever lockout for all controls
- Adjustable pilot operated joystick type (wrist lever) controls each with three on/off buttons and one slider
- Monitor
  - Full graphic and 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
- Heavy lift mode selection

### POWER TRAIN

- Cat C7 ACERT, 24-volt electric starting and air intake heater
- U.S. EPA Tier 3/EU Stage III emissions package
- Radial seal air filters (330 mm/13") with double element, integrated cyclonic feature
- Cat extended life coolant
- Automatic engine speed control with push button return to idle
- Water separator in fuel line
- Muffler
- Fuel economy mode

### UNDERCARRIAGE

- Creeper speed
- Exclusive three position transmission braking control
- 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 disc brakes
- Towing hitch
- Lockable oscillating axle
- Toolbox, left hand
- Two wheel steer
- Two speed hydrostatic transmission
- Wide steps on both sides
- 23.5 R25 XHA2 pneumatic tires

### HYDRAULIC SYSTEMS

- High pressure grapple open-close hydraulic circuit
- Hydraulic and electric circuits for:
  - Boom lowering check valves
  - Stick lowering check valves
  - Medium pressure functions (for HCR and grapple rotate)

### OTHER STANDARD EQUIPMENT

- Automatic swing parking brake
- Antifreeze
- Cold weather starting aids
- Cat 2.6 m (8'6") hydraulically adjustable cab riser
- Counterweight for material handling
- Rearview camera system
- Heavy duty upper frame with bottom guards
- Travel alarm
- Boom and stick regeneration circuit
- Separate hydraulic filter with re-useable metal tube for the filter element – no drop oil filter
- Automatic swing parking brake
- Doors and cab lock with Cat One Key Security System
- Fire wall between pump compartment and engine
- Overheat prevention system
- Mirrors (frame right, cab-left)

# M325D LMH Millyard Wheel Material Handler

## Optional Equipment

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

### TWO BOOM AND STICK CONFIGURATIONS ARE AVAILABLE:

- Material Handling Linkage
  - Boom 8850 mm (29 ft 0 in)
  - Drop Nose Stick 5.7 m (18 ft 8 in)
- Log Loader Linkage
  - Boom 6800 mm (22 ft 4 in)
  - Stick 4350 mm (14 ft 3 in)
- Heel Assembly not included
- Suitable for Butt-N-Top configurations

Materials and specifications are subject to change without notice.

AEHQ7265

Featured machines in photos may include additional equipment.

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For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com).

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