



MH3250

Material Handler

Technical Specifications

Configurations and features may vary by region. Please consult your Cat® dealer for availability in your area.

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MH3250 Material Handler Specifications

Engine

Engine Model	Cat® C9.3B	
Net Power		
ISO 9249	232 kW	311 hp
ISO 9249 (metric)	315 mhp (PS)	
80/1269/EEC	311 hp	
Engine Power		
ISO 14396	234 kW	314 hp
ISO 14396 (metric)	318 mhp (PS)	
Bore	115 mm	5 in
Stroke	149 mm	6 in
Displacement	9.3 L	568 in ³
Number of Cylinders	6	
Biodiesel Capability	Up to B20 ⁽¹⁾	

- Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Rated speed 1,800 rpm.
- Net power advertised is the power available at the flywheel when engine is equipped with fan, air cleaner, exhaust gas aftertreatment and alternator.
- Advertised power is tested per the specified standard in effect at the time of manufacture.
- Recommended for use up to 4500 m (14,760 ft) altitude with engine power derate above 2300 m (7,545 ft).

⁽¹⁾Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) and are compatible* with ULSD blended with the following lower-carbon intensity fuels** up to:

- ✓ 20% biodiesel FAME (fatty acid methyl ester)***
- ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations” (SEBU6250) for details.

* While Cat engines are compatible with these alternative fuels, some regions may not allow their use.

** Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

*** Engines with no aftertreatment devices are compatible with higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).

Track

Standard Track Shoes Width	600 mm	24 in
Number of Shoes (each side)	52	
Number of Track Rollers (each side)	9	
Number of Carrier Rollers (each side)	3	

Drive

Gradeability	35°/70%	
Maximum Travel Speed	3.4 km/h	2.1 mph
Maximum Drawbar Pull	246 kN	55,281 lbf

Hydraulic System

Main System – Maximum Flow	558 L/min (279 × 2 pumps)	148 gal (74 × 2 pumps)
Maximum Pressure – Implements	35 000 kPa	5,076 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	32 000 kPa	4,061 psi
Medium Pressure – Maximum Flow	60 L/min	16 gal/min
Medium Pressure – Max Pressure	20 000 kPa	2,900 psi
Cylinders		
Boom Cylinder – Bore	160 mm	6.3 in
Boom Cylinder – Stroke	1357 mm	53.4 in
Stick Cylinder – Bore	140 mm	5.5 in
Stick Cylinder – Stroke	1400 mm	55.1 in

Service Refill Capacities

Fuel Tank (total capacity)	600 L	158.5 gal
Cooling System	40 L	10.6 gal
Engine Oil (with filter)	32 L	8.5 gal
Swing Drive (each)	18.0 L	4.8 gal
Final Drive (each)	15 L	4.0 gal
Hydraulic System (including tank)	373 L	98.5 gal
Hydraulic Tank	161 L	42.5 gal
Diesel Exhaust Fluid (DEF) Tank	80 L	21.1 gal

Swing Mechanism

Swing Speed*	8 rpm
Maximum Swing Torque	142 kN·m 104,734 lbf·ft

*For CE-marked machine default value may be set lower.

Weights

Operating Weight*	48 850 kg	107,700 lb
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*Material Handler (MH) Boom, 7.6 m (24'11") industrial stick, 6.8 mt (14,990 lb) counterweight, 600 mm (24") triple grouser shoes, full fuel tank, 75 kg (165 lb) operator, grapple 3000 kg (6,610 lb).

Standards

Brakes	ISO 10265:2008
Cab/Tip Over Protective Structure (TOPS)	EN474-5:2022/AC:2022
Operator Protective Guards (OPG)	ISO 10262:1998 Level II
Cab/Sound Levels	Meets appropriate standards as listed below

Vibration Levels

Maximum Hand/Arm		
ISO 5349:2001	<2.5 m/s ²	<8.2 ft/s ²
Maximum Whole Body		
ISO/TR 25398:2006	<0.5 m/s ²	<1.6 ft/s ²
Seat Transmissibility Factor		
ISO 7096:2000-Spectral Class EM6	<0.7	

Sound Performance

ISO 6395:2008 external	105 dB(A)
ISO 6396:2008 internal	73 dB(A)

- External Sound – The labeled spectator sound power level represents the Guaranteed Value per 2000/14/EC, when properly equipped, and is measured according to the test procedures and conditions specified in ISO 6395:2008. The measurements were conducted at 70% of the maximum engine cooling fan speed.
- Internal Sound – The operator sound pressure level is measured according to the test procedures and conditions specified in ISO 6396:2008 for a cab offered by Caterpillar, when properly installed and maintained and tested with the door and windows closed. The measurements were conducted at 70% of the maximum engine cooling fan speed.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained for doors/windows open) for extended periods or in noisy environment(s).
- Blue Angel certified.

Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf. See the label or instruction manual for identification of the gas.
 - If equipped with R134a (Global Warming Potential = 1430), the system contains 1.09 kg (2.4 lb) of refrigerant which has a CO₂ equivalent of 1.559 metric tonnes (1.718 tons).
 - If equipped with R1234yf (Global Warming Potential = 0.5), the system contains 1.09 kg (2.4 lb) of refrigerant which has a CO₂ equivalent of 0.001 metric tonnes (0.001 tons).

MH3250 Material Handler Specifications

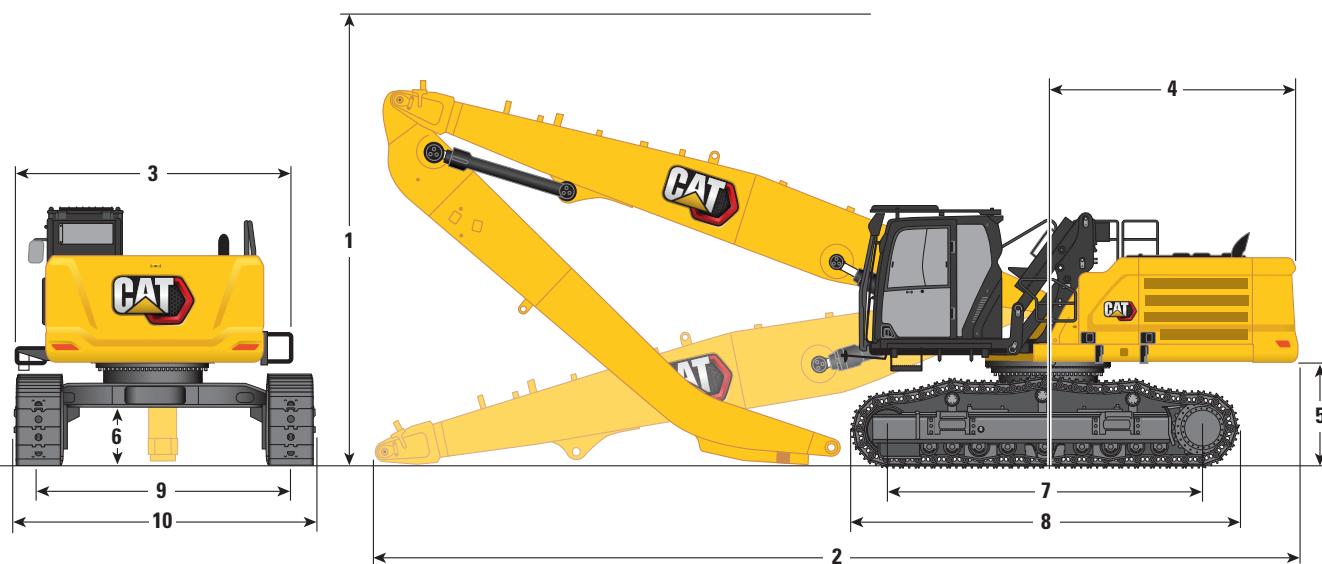
Major Component Weights

	kg	lb
Base machine with variable gauge undercarriage with single flange track rollers and carrier rollers, with 600 mm (24") triple grouser track shoes and boom cylinders	32 250	71,100
Boom (including stick cylinders, pins and standard hydraulic lines):		
MH Boom 9.2 m (30'2")	4680	10,320
Stick (including pins and standard hydraulic lines):		
Industrial Stick 6.1 m (20'0")	1790	3,950
Industrial Stick 7.6 m (24'11")	2120	4,670
Counterweight:		
6800 kg (14,990 lb) Counterweight	6800	14,990
Two Boom Cylinders	830	1,830
Variable Gauge Undercarriage:		
Base Frame with DF Track Rollers and Carrier Rollers	10 460	23,060
Track Shoes:		
600 mm (24") Width, 15.5 mm (0.6") Thick, Triple Grouser Track Shoes	5290	11,660
OPG Guard	130	290
Optional Equipment:		
Generator	180	400
Grapples (with mounting bracket):		
GSH425-750-S (0.75 m ³ /1.0 yd ³)	1674	3,690
GSH425-950-S (0.95 m ³ /1.25 yd ³)	1712	3,770
GSH425-1150-S (1.15 m ³ /1.5 yd ³)	1767	3,900
GSH440-950-S (0.95 m ³ /1.25 yd ³)	2183	4,810
GSH525-750-S (0.75 m ³ /1.0 yd ³)	2215	4,880
GSH525-750-C (0.75 m ³ /1.0 yd ³)	2311	5,090
GSH525-950-S (0.95 m ³ /1.25 yd ³)	1976	4,360
GSH525-950-C (0.95 m ³ /1.25 yd ³)	2168	4,780

MH3250 Material Handler Specifications

Dimensions

All dimensions are approximate.



Boom Option

MH Boom
9.2 m (30'2")

Stick Option

Industrial
6.1 m (20'0")

Industrial
7.6 m (24'11")

1 Machine Height

Shipping Height – without Operator Protective Guards, without Stick	3500 mm	11'6"	3500 mm	11'6"
Shipping Height – with Operator Protective Guards, without Stick	3570 mm	11'9"	3570 mm	11'9"
Cab Lowered – without Operator Protective Guards	3500 mm	11'6"	3500 mm	11'6"
Cab Lowered – with Operator Protective Guards	3570 mm	11'9"	3570 mm	11'9"
Cab Raised – without Operator Protective Guards	6020 mm	19'9"	6020 mm	19'9"
Cab Raised – with Operator Protective Guards	6160 mm	20'3"	6160 mm	20'3"
With Boom/Stick Installed	3520 mm	11'7"	5270 mm	17'3"

2 Machine Length

Shipping Length – without Stick	12 700 mm	41'8"	12 700 mm	41'8"
With Boom/Stick Installed	12 950 mm	42'6"	12 610 mm	41'4"

3 Upper Frame Width

Without Walkways and Handrails	2970 mm	9'9"	2970 mm	9'9"
Including Walkways and Handrails	3820 mm	12'6"	3820 mm	12'6"

4 Tail Swing Radius

3530 mm	11'7"	3530 mm	11'7"
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5 Counterweight Clearance

1410 mm	4'8"	1410 mm	4'8"
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6 Ground Clearance

700 mm	2'4"	700 mm	2'4"
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7 Track Length – Length to Center of Rollers

4340 mm	14'3"	4340 mm	14'3"
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8 Track Length

5350 mm	17'7"	5350 mm	17'7"
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9 Track Gauge: Variable Gauge Undercarriage

Retracted	3220 mm	10'7"	3220 mm	10'7"
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Extended	3720 mm	12'2"	3720 mm	12'2"
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10 Undercarriage Width

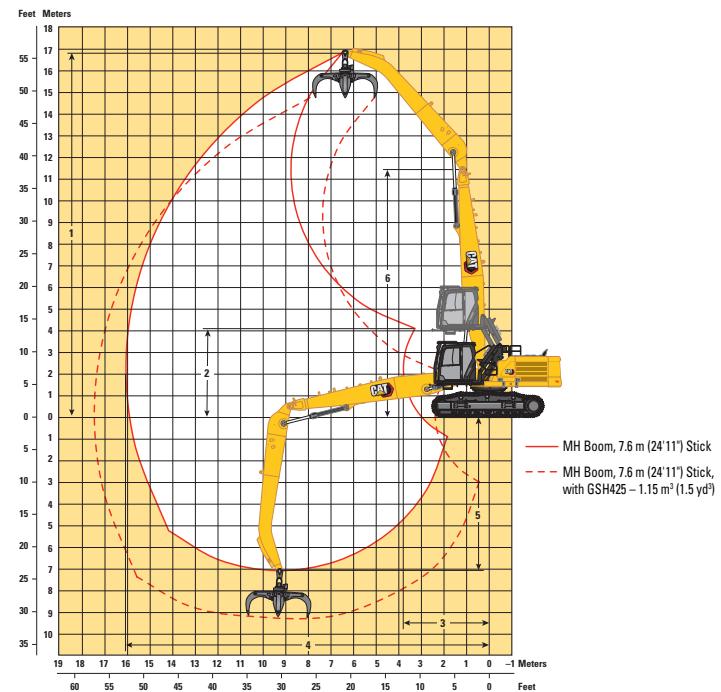
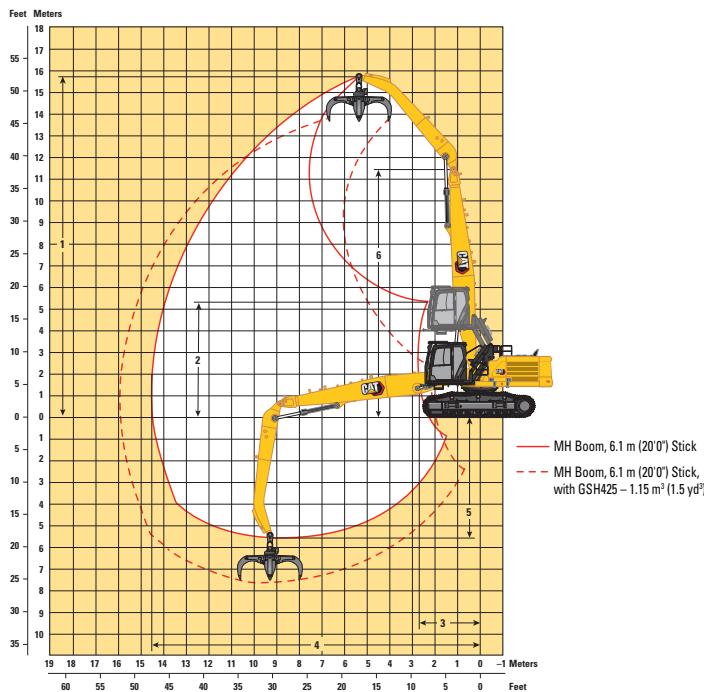
Variable Gauge Undercarriage Retracted – 600 mm (24") Shoes	4010 mm	13'2"	4010 mm	13'2"
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Variable Gauge Undercarriage Extended – Extended	4510 mm	14'10"	4510 mm	14'10"
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MH3250 Material Handler Specifications

Working Ranges and Forces

All dimensions are approximate.



Boom Option

MH Boom 9.2 m (30'2")

Stick Option

Industrial 6.1 m (20'0")

Industrial 7.6 m (24'11")

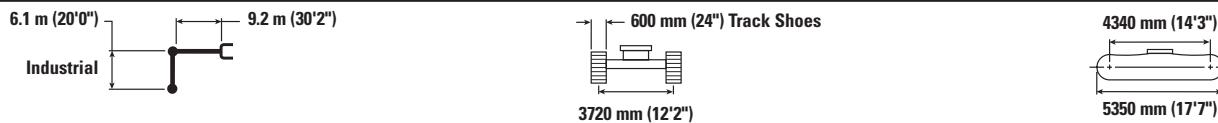
1 Maximum Height*	15 770 mm	51'9"	16 850 mm	55'3"
2 Minimum Height*	5530 mm	18'2"	4090 mm	13'5"
3 Minimum Swing Radius – Front	2730 mm	8'11"	3870 mm	12'8"
4 Maximum Reach*	14 620 mm	48'0"	16 010 mm	52'6"
5 Maximum Depth*	5590 mm	18'4"	7090 mm	23'3"
6 Boom Pin Height	11 450 mm	37'7"	11 450 mm	37'7"

*Dimensions refer to stick nose pin.

MH3250 Material Handler Specifications

Lift Capacities – Counterweight: 6800 kg (14,990 lb)

Without attachment



		4500 mm (15'0")		6000 mm (20'0")		7500 mm (25'0")		9000 mm (30'0")				mm ft/in
15 000 mm 50'0"	kg lb			*15,750	*15,750					*6050	*6050	7080 21'8"
13 500 mm 45'0"	kg lb					*8200 *17,100	*8200 *17,100	*5950	*5950	*5300 *11,800	*5300 *11,800	9310 29'7"
12 000 mm 40'0"	kg lb					*9350 *20,400	*9350 *20,400	*8300 *17,250	*8300 *17,250	*4900 *10,850	*4900 *10,850	10 880 35'1"
10 500 mm 35'0"	kg lb					*9350 *20,350	*9350 *20,350	*8300 *18,100	*8300 *18,100	*4700 *10,350	*4700 *10,350	12 070 39'2"
9000 mm 30'0"	kg lb					*9550 *20,700	*9550 *20,700	*8400 *18,250	*8400 *18,250	*4600 *10,100	*4600 *10,100	12 970 42'3"
7500 mm 25'0"	kg lb			*11 700 *25,400	*11 700 *25,400	*9900 *21,500	*9900 *21,500	*8600 *18,700	*8600 *18,700	*4550 *10,000	*4550 *10,000	13 650 44'7"
6000 mm 20'0"	kg lb	*16 200 *34,950	*16 200 *34,950	*12 650 *27,300	*12 650 *27,300	*10 400 *22,550	*10 400 *22,550	*8900 *19,250	*8900 *19,250	*4600 *10,100	*4600 *10,100	14 140 46'3"
4500 mm 15'0"	kg lb	*18 300 *39,400	*18 300 *39,400	*13 650 *29,450	*13 650 *29,450	*10 950 *23,700	*10 950 *23,700	*9150 *19,850	*9150 *19,850	*4700 *10,300	*4700 *10,300	14 450 47'4"
3000 mm 10'0"	kg lb	*11 400 *28,150	*11 400 *28,150	*14 400 *31,100	*14 400 *31,100	*11 350 *24,550	*11 350 *24,550	*9350 *20,300	*9350 *20,300	*4850 *19,700	*4850 *19,700	14 600 47'10"
1500 mm 5'0"	kg lb	*6150 *14,350	*6150 *14,350	*14 500 *31,400	*14 500 *31,400	*11 450 *24,750	*11 450 *24,750	*9400 *20,300	*9400 *20,300	*4900 *18,850	*4900 *18,850	14 600 47'10"
0 mm 0'0"	kg lb	*5800 *13,150	*5800 *13,150	*12 250 *28,450	*12 250 *28,450	*11 100 *24,050	*11 100 *24,050	*9150 *19,750	*9150 *19,750	*4600 *18,200	*4600 *18,200	14 440 9,650
-1500 mm -5'0"	kg lb	*6350 *14,400	*6350 *14,400	*10 950 *25,050	*10 950 *25,050	*10 300 *22,350	*10 300 *22,350	*8550 *18,500	*8550 *18,500	*4250 *17,750	*4250 *17,750	14 120 46'3"
-3000 mm -10'0"	kg lb	*7200 *16,150	*7200 *16,150	*10 700 *23,150	*10 700 *23,150	*9100 *19,650	*9100 *19,650	*7650 *16,450	*7650 *16,450	*3750 *16,450	*3750 *16,450	13 620 44'7"
-4500 mm -15'0"	kg lb			*8400 *18,100	*8400 *18,100	*7450 *15,950	*7450 *15,950	*6350 *13,550	*6350 *13,550	*3500 *7,700	*3500 *7,700	12 600 40'11"



ISO 10567:2007



* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with $\pm 5\%$ for all available track shoes.

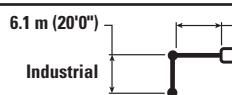
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

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MH3250 Material Handler Specifications

Lift Capacities – Counterweight: 6800 kg (14,990 lb) (continued)

Without attachment



9.2 m (30'2")

600 mm (24") Track Shoes

3720 mm (12'2")

4340 mm (14'3")

5350 mm (17'7")

		10 500 mm (35'0")		12 000 mm (40'0")		13 500 mm (45'0")			
15 000 mm 50'0"	kg lb							*6050 *13,800	*6050 *13,800
13 500 mm 45'0"	kg lb							*5300 *11,800	*5300 *11,800
12 000 mm 40'0"	kg lb	*5800 *11,050	*5800 *11,050					*4900 *10,850	*4900 *10,850
10 500 mm 35'0"	kg lb	*7500 *16,350	*7500 *16,350	*4850	*4850			*4700 *10,350	*4700 *10,350
9000 mm 30'0"	kg lb	*7500 *16,350	*7500 *16,350	*6800 *14,250	6550 14,000			*4600 *10,100	*4600 *10,100
7500 mm 25'0"	kg lb	*7600 *16,550	*7600 *16,550	*6800 *14,750	6450 13,850	*5050	*5050	*4550 *10,000	*4550 *10,000
6000 mm 20'0"	kg lb	*7750 *16,800	*7750 *16,800	*6850 *14,850	6300 13,600	6050 12,950	5200 11,150	*4600 *10,100	*4600 *10,100
4500 mm 15'0"	kg lb	*7900 *17,100	7550 16,300	*6900 *14,900	6150 13,250	5950 12,750	5100 10,950	*4700 *10,300	4550 10,050
3000 mm 10'0"	kg lb	*7950 *17,200	7300 15,700	*6850 *14,850	6000 12,850	5850 12,550	5000 10,750	*4850 *10,650	4450 9,750
1500 mm 5'0"	kg lb	*7900 *17,100	7050 15,150	*6750 *14,550	5800 12,500	*5700 *12,250	4900 10,550	*4900 *10,800	4350 9,600
0 mm 0'0"	kg lb	*7650 *16,550	6850 14,700	*6450 *13,900	5700 12,250	*5350 *11,450	4800 10,350	*4600 *10,100	4400 9,650
-1500 mm -5'0"	kg lb	*7150 *15,450	6700 14,400	*5950 *12,800	5600 12,050	*4800 *10,100	4800 *10,100	*4250 *9,300	4250 *9,300
-3000 mm -10'0"	kg lb	*6400 *13,700	*6400 *13,700	*5200 *11,050	*5200 *11,050	*3900	*3900	*3750 *8,200	*3750 *8,200
-4500 mm -15'0"	kg lb	*5250 *11,100	*5250 *11,100	*4050 *8,350	*4050 *8,350			*3500 *7,700	*3500 *7,700



ISO 10567:2007



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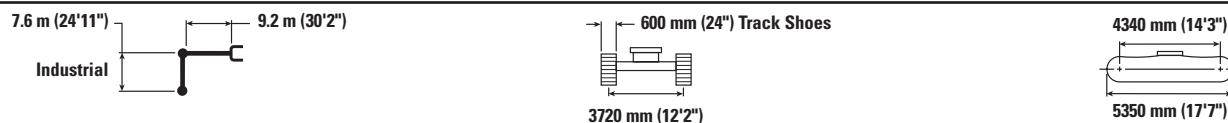
Lift capacity stays with $\pm 5\%$ for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

MH3250 Material Handler Specifications

Lift Capacities – Counterweight: 6800 kg (14,990 lb) (continued)

Without attachment



		3000 mm (10'0")		4500 mm (15'0")		6000 mm (20'0")		7500 mm (25'0")		9000 mm (30'0")							
												mm ft/in					
15 000 mm 50'0"	kg lb									*5050 *9,800	*5050 *9,250	*4150 *9,250	9640 30'6"				
13 500 mm 45'0"	kg lb									*6600 *13,850	*6600 *13,850	*3750 *8,300	11 370 36'6"				
12 000 mm 40'0"	kg lb									*7400 *16,200	*7400 *16,200	*3500 *7,750	12 690 41'1"				
10 500 mm 35'0"	kg lb									*7400 *16,150	*7400 *16,150	*3400 *7,450	13 720 44'7"				
9000 mm 30'0"	kg lb									*7550 *16,350	*7550 *16,350	*3300 *7,250	14 520 47'4"				
7500 mm 25'0"	kg lb									*7800 *16,900	*7800 *16,900	*3300 *7,200	15 130 49'5"				
6000 mm 20'0"	kg lb									*9350 *20,200	*9350 *20,200	*8100 *17,600	*8100 *17,600	*3300 *7,250	15 570 50'11"		
4500 mm 15'0"	kg lb			*15 600 *33,700	*15 600 *33,700	*12 150 *26,300	*12 150 *26,300	*10 000 *21,650	*10 000 *21,650	*8500 *18,400	*8500 *18,400	*3350 *7,400	*3350 *7,400	15 860 51'11"			
3000 mm 10'0"	kg lb			*17 950 *38,750	*17 950 *38,750	*13 300 *28,800	*13 300 *28,800	*10 650 *23,000	*10 650 *23,000	*8850 *19,150	*8850 *19,150	*3450 *7,600	*3450 *7,600	16 000 52'5"			
1500 mm 5'0"	kg lb			*13 250 *31,550	*13 250 *31,550	*14 100 *30,500	*14 100 *30,500	*11 050 *23,950	*11 050 *23,950	*9100 *19,650	*9100 *19,650	*3600 *19,150	*3600 *19,150	15 990 52'5"			
0 mm 0'0"	kg lb	*3450 *7,800	*3450 *7,800	*7600 *17,450	*7600 *17,450	*14 200 *30,750	*14 200 *30,750	*11 150 *24,150	*11 150 *24,150	11 050 23,750	11 050 23,750	*9100 *19,700	*9100 *19,700	8500 18,300	*3800 *8,400	3700 8,100	15 850 51'11"
-1500 mm -5'0"	kg lb	*4000 *8,950	*4000 *8,950	*6750 *15,250	*6750 *15,250	*12 900 *29,500	*12 900 *29,500	*10 850 *23,450	*10 850 *23,450	10 600 22,800	10 600 22,800	*8850 *19,150	*8850 *19,150	8200 17,600	*3800 *8,350	3750 8,250	15 550 50'11"
-3000 mm -10'0"	kg lb	*4700 *10,450	*4700 *10,450	*6800 *15,300	*6800 *15,300	*11 200 *25,600	*11 200 *25,600	*10 050 *21,750	*10 050 *21,750	*8300 *17,900	*8300 *17,900	8000 17,200	*3450 *17,200	8000 17,200	*3450 *7,600	15 110 49'5"	
-4500 mm -15'0"	kg lb			*7200 *16,150	*7200 *16,150	*10 700 *23,050	*10 700 *23,050	*8900 *19,100	*8900 *19,100	*7400 *15,850	*7400 *15,850	*3050 *6,600	*3050 *6,600	7400 6,600	*3050 *6,600	14 490 47'4"	
-6000 mm -20'0"	kg lb					*8450 *18,100	*8450 *18,100	*7250 *15,450	*7250 *15,450	*6050 *12,900	*6050 *12,900	*6050 *12,900	*6050 *12,900	*3100 *6,900	*3100 *6,900	13 040 42'2"	



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Lift capacity stays with $\pm 5\%$ for all available track shoes.

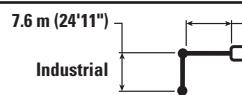
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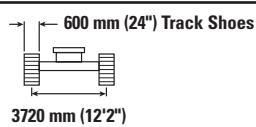
MH3250 Material Handler Specifications

Lift Capacities – Counterweight: 6800 kg (14,990 lb) (continued)

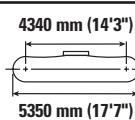
Without attachment



9.2 m (30'2")



3720 mm (12'2")



4340 mm (14'3")

5350 mm (17'7")

		10 500 mm (35'0")		12 000 mm (40'0")		13 500 mm (45'0")		15 000 mm (50'0")			
											mm ft/in
15 000 mm 50'0"	kg lb									*4150 *9,250	9640 30'6"
13 500 mm 45'0"	kg lb	*5050 *10,050	*5050 *10,050							*3750 *8,300	11 370 36'6"
12 000 mm 40'0"	kg lb	*6450 *13,500	*6450 *13,500	*4700 *9,150	*4700 *9,150					*3500 *7,750	12 690 41'1"
10 500 mm 35'0"	kg lb	*6750 *14,750	*6750 *14,750	*6050 *12,500	*6050 *12,500	*3800	*3800			*3400 *7,450	13 720 44'7"
9000 mm 30'0"	kg lb	*6850 *14,850	*6850 *14,850	*6250 *13,550	*6250 *13,550	*5250 *10,450	*5250 *10,450			*3300 *7,250	14 520 47'4"
7500 mm 25'0"	kg lb	*7000 *15,150	*7000 *15,150	*6300 *13,700	*6300 *13,700	*5750 *12,400	*5750 *11,400	*3600	*3600	*3300 *7,200	15 130 49'5"
6000 mm 20'0"	kg lb	*7200 *15,550	*7200 *15,550	*6400 *13,900	*6400 *13,900	6400 *13,750	*5750 *12,450	5250 *11,200	*4650 *8,900	4300 *8,900	*3300 *7,250
4500 mm 15'0"	kg lb	*7400 *16,000	*7400 *16,000	*6500 *14,100	*6500 *14,100	6200 *13,300	*5800 *12,500	5100 *10,950	4950 *10,600	4250 *10,600	*3350 *7,400
3000 mm 10'0"	kg lb	*7600 *16,400	7400 *15,900	*6600 *14,300	*6600 *14,300	6000 *12,850	5750 *12,350	4950 *10,650	4850 *10,400	4150 *8,900	*3450 *7,600
1500 mm 5'0"	kg lb	*7700 *16,600	7100 *15,200	*6600 *14,300	*6600 *14,300	5800 *12,450	5600 *12,050	4800 *10,350	4750 *10,250	4100 *8,750	*3600 *7,950
0 mm 0'0"	kg lb	*7650 *16,500	6800 *14,650	*6500 *14,050	*6500 *14,050	5600 *12,050	5500 *11,800	4700 *10,100	*4650 *9,900	4000 *8,600	*3800 *8,400
-1500 mm -5'0"	kg lb	*7400 *15,950	6600 *14,200	*6250 *13,400	*6250 *13,400	5450 *11,700	*5250 *11,200	4600 *9,900	*4250 *8,900	3950 *8,500	*3800 *8,350
-3000 mm -10'0"	kg lb	*6900 *14,850	6450 *13,850	*5750 *12,350	*5750 *12,350	5350 *11,500	*4700 *10,000	4550 *9,750	*3550 *8,100	*3550 *8,100	*3450 *7,600
-4500 mm -15'0"	kg lb	*6150 *13,100	*6150 *13,100	*5000 *10,650	*5000 *10,650	*5000 *8,100	*3900 *8,100	*3900 *8,100			*3050 *6,600
-6000 mm -20'0"	kg lb	*5000 *10,500	*5000 *10,500	*3900 *8,100	*3900 *8,100						*3100 *6,900
											*3100 *6,900



ISO 10567:2007



* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with $\pm 5\%$ for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

MH3250 Material Handler Specifications

Work Tool Offering Guide – North America

Not all Attachments are available in all regions. Consult your Cat dealer for configurations available in your region.

PIN-ON ATTACHMENTS

Undercarriage	MH	
Counterweight	6800 kg (14,990 lb)	
Boom Type	MH	
Stick Length	6.1 m (20'0")	7.6 m (24'11")
Orange Peel Grapples	GSH425-750	●
	GSH425-950	●
	GSH425-1150	●
	GSH440-950	●
	GSH440-1150	●
	GSH440-1550	○
	GSH525-750	●
	GSH525-950	●
	GSH525-1150	●
	CTV20-1300	●
	CTV20-1500	○
	CTV20-1700	○
Clamshell Grapples	CTV20-1900	○
	CTV20-2300	◆
	CTV30-1700	◆
	CTV30-1900	◆

Maximum Material Density

● 1800 kg/m³ (3,000 lb/yd³)

○ 1200 kg/m³ (2,000 lb/yd³)

◆ 900 kg/m³ (1,500 lb/yd³)

No Match

MH3250 Material Handler Specifications

Work Tool Offering Guide – Europe

Not all Attachments are available in all regions. Consult your Cat dealer for configurations available in your region.

PIN-ON ATTACHMENTS

Undercarriage	MH	
Counterweight	6800 kg (14,990 lb)	
Boom Type	MH	
Stick Length	6.1 m (20'0")	7.6 m (24'11")
Orange Peel Grapples	GSH425-750	●
	GSH425-950	●
	GSH425-1150	●
	GSH440-950	●
	GSH440-1150	●
	GSH440-1550	○
	GSH525-750	●
	GSH525-950	●
	GSH525-1150	●
	GSV425-600	●
	GSV425-750	●
	GSV425-950	●
	GSV425-1150	●
	GSV425-1550	◇
	GSV525-600	●
	GSV525-750	●
	GSV525-950	●
	GSV525-1150	○
	GSV525-1550	◇
Clamshell Grapples	CTV20-1300	●
	CTV20-1500	○
	CTV20-1700	○
	CTV20-1900	○
	CTV20-2300	◇
	CTV30-1700	◇
	CTV30-1900	◇

Maximum Material Density

- 1800 kg/m³ (3,000 lb/yd³)
- 1200 kg/m³ (2,000 lb/yd³)
- ◆ 900 kg/m³ (1,500 lb/yd³)
- ◇ 600 kg/m³ (1,000 lb/yd³)

No Match

MH3250 Standard and Optional Equipment

Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat® dealer for details.

	Standard	Optional	Standard	Optional
CAB				
Advanced sound suppressed with rubber mount	✓		Cat Equipment Management:	
High-resolution 254 mm (10") LCD touchscreen monitor	✓		– VisionLink™	✓ ¹
Automatic bi-level air conditioner	✓		– Remote Flash	✓
Jog dial and shortcut keys for monitor control	✓		– Remote Troubleshoot	✓
Keyless push-to-start engine control	✓		Cat Payload:	
Tilt-up left-side console	✓		– On-the-go weighing	✓
Air suspension premium seat with headrest, heater, ventilator	✓		– Payload/cycle information	✓
Height-adjustable console, infinite with no tool	✓		ENGINE	
51 mm (2") orange seat belt	✓		Work up to 3000 m (9,840 ft) altitude capability with no derate	✓
Bluetooth® integrated radio (including USB, auxiliary port and microphone)	✓		115 amp alternator	✓
2 × 12V DC outlets	✓		Cold starting capability down to -32°C (-25°F)	✓
Auxiliary relay	✓		Up to 52°C (125°F) high ambient temperature capability	✓
Document storage	✓		Single plane three horizontal cooling system	✓
Rear storage with net	✓		Double element air filter with integrated pre-cleaner	✓
Overhead storage with net	✓		Dual stage 4 micron main filter and 10 micron primary filter with water separator and water separator indicator switch in fuel line	✓
Cup holder	✓		Electric fuel priming pump	✓
Fixed one piece windshield (P5A glass)	✓		Secure start with Personal Identification Number (PIN) code	✓
Parallel wiper with washer	✓		Remote disable	✓
Fixed P5A glass roof window (with one piece windshield)	✓		Automatic engine speed control	✓
Dome and lower LED interior lights	✓		HYDRAULIC SYSTEM	
Floor welcome light	✓		Electronic main control valve	✓
Roller front sunscreen	✓		Hydraulic main pump	✓
Roller rear sunscreen	✓		Auto warm up and cold lock out	✓
Rear window emergency exit	✓		Regeneration circuit for boom and stick	✓
Washable floor mat	✓		Boom and stick lowering control check valves	✓
Beacon ready	✓		Medium pressure (grapple rotate) and cab riser valve	✓
Operator Protective Guards (OPG)	✓		Capability of installing additional generator pump and circuit	✓
¹Provides core telematics data to manage health, maintenance insights, and condition monitoring. Other plans available for more comprehensive data reporting. Consult your Cat dealer for details.				
²Not compatible with 2D E-fence or Cab avoidance.				
³North America only.				

(continued on next page)

MH3250 Standard and Optional Equipment

Standard and Optional Equipment (continued)

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

	Standard	Optional	Standard	Optional
UNDERCARRIAGE AND STRUCTURES				
Grease lubricated track GLT4, resin seal	✓			
Guard, heavy duty bottom without swivel guard nor travel motor protection (recessed bolts)	✓			
Guard, heavy duty travel motor protection	✓			
Towing eye on base frame	✓			
Three piece track guiding guard	✓			
BOOMS, STICKS AND LINKAGES				
9.2 m (30'2") Material Handler boom	✓			
6.1 m (20'0") Industrial stick	✓			
7.6 m (24'11") Industrial stick	✓			
ELECTRICAL SYSTEM				
Generator, 25 kW with wiring to stick nose	✓			
Power fuse module	✓			
Maintenance free battery	✓			
Centralized electrical disconnect switch	✓			
LED exterior lights (integrated into storage box and mounted on boom and stick sides)	✓			
Compatible with Electronic Technician	✓			
SERVICE AND MAINTENANCE				
Service platform with anti-skid plate and recessed bolts		✓		
Grouped location for engine oil and fuel filters		✓		
Scheduled Oil Sampling (S-O-S SM) ports		✓		
Integrated vehicle health management system		✓		
SAFETY AND SECURITY				
Right Hand (RH) handrail and hand hold		✓		
Standard visibility mirror package		✓		
Signaling/warning horn		✓		
Secondary engine shutoff switch, still accessible while cab is in raised position		✓		
Inspection lighting		✓		
Capability to electrically connect a beacon		✓		
Rear and side view cameras		✓		
Caterpillar One Key Security System		✓		
Cab avoidance		✓		
2D E-fence		✓		
360° visibility		✓		
Lockable disconnect switch		✓		
Swing alarm		✓		
Lockable external tool/storage box		✓		
Door locks and cap locks including fuel and hydraulic tanks		✓		
Lockable fuel drain compartment		✓		
Swing Assist		✓		
COOLING SYSTEM				
Cooling fan with reverse fan function		✓		

Dealer Installed Kits and Attachments

Attachments may vary. Consult your Cat dealer for details.

CAB

- Dual exit rear window kit (Canadian regulation)

SAFETY AND SECURITY

- 76 mm (3") retractable seat belt

GUARDS

- OPG (not compatible with cab light cover, rain protector)
- Mesh guard lower half front
- Full protection vandalism guard

ELECTRICAL

- Jump start wiring

MH3250 Environmental Declaration

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit <https://www.caterpillar.com/en/company/sustainability>.

Engine

- The Cat® C9.3B engine meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) and are compatible* with ULSD blended with the following lower-carbon intensity fuels** up to:
 - ✓ 20% biodiesel FAME (fatty acid methyl ester)***
 - ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

* While Cat engines are compatible with these alternative fuels, some regions may not allow their use.

** Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

*** Engines with no aftertreatment devices are compatible with higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).

Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf. See the label or instruction manual for identification of the gas.
 - If equipped with R134a (Global Warming Potential = 1430), the system contains 1.09 kg (2.4 lb) of refrigerant which has a CO₂ equivalent of 1.559 metric tonnes (1.718 tons).
 - If equipped with R1234yf (Global Warming Potential = 0.5), the system contains 1.09 kg (2.4 lb) of refrigerant which has a CO₂ equivalent of 0.001 metric tonnes (0.001 tons).

Paint

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
 - Barium < 0.01%
 - Cadmium < 0.01%
 - Chromium < 0.01%
 - Lead < 0.01%

Sound Performance

ISO 6395:2008 external	105 dB(A)
ISO 6396:2008 internal	73 dB(A)

- External Sound – The labeled spectator sound power level represents the Guaranteed Value per 2000/14/EC, when properly equipped, and is measured according to the test procedures and conditions specified in ISO 6395:2008. The measurements were conducted at 70% of the maximum engine cooling fan speed.
- Internal Sound – The operator sound pressure level is measured according to the test procedures and conditions specified in ISO 6396:2008 for a cab offered by Caterpillar, when properly installed and maintained and tested with the door and windows closed. The measurements were conducted at 70% of the maximum engine cooling fan speed.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained for doors/windows open) for extended periods or in noisy environment(s).
- Blue Angel certified.

Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDOL™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

Features and Technology

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
 - Advanced electro-hydraulic systems balance power and efficiency
 - Extended service intervals help decrease maintenance costs
 - The latest hydraulic oil filter provides longer life with a 3,000-hour replacement interval
 - Programmable high-efficiency cooling fans run only when needed
 - One-touch low idle with automatic engine speed control
 - Remote flash and remote troubleshoot

Recycling

- The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

Material Type	Weight Percentage
Steel	84.77%
Iron	7.29%
Nonferrous Metal	2.40%
Other	1.98%
Fluid	1.23%
Plastic	1.09%
Mixed-Metal and Nonmetal	0.89%
Uncategorized	0.19%
Rubber	0.10%
Mixed Metal	0.06%
Mixed Nonmetallic	0.01%
Total	100%

- A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance End-of-Life value of the product. According to ISO 16714:2008 (Earthmoving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused, or both.

All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714:2008 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

Because of variations of product configurations, the following value in the table may vary.

Recyclability – 97%

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

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