



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

- 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).

<sup>(1)</sup>Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or 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.

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

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

## 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).

## 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

# MH3250 Material Handler Specifications

## Standards

Brakes	ISO 10265:2008
Cab/Tip Over Protective Structure (TOPS)	EN474-5:2006 + A3:2013
Operator Protective Guards (OPG)	SAE J1356 MAR2013 ISO 10262-1998 LV 2
Cab/Sound Levels	Meets appropriate standards as listed below

## Vibration Levels

Maximum Hand/Arm		
ISO 5349-2001	<2.5 m/s <sup>2</sup>	<8.2 ft/s <sup>2</sup>
Maximum Whole Body		
ISO/TR 25398:2006	<0.5 m/s <sup>2</sup>	<1.6 ft/s <sup>2</sup>
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 amended by 2005/88/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 (Global Warming Potential = 1430). The system contains 1.2 kg (2.64 lb) of refrigerant which has a CO<sub>2</sub> equivalent of 1.716 metric tonnes (1.892 tons).

# MH3250 Material Handler Specifications

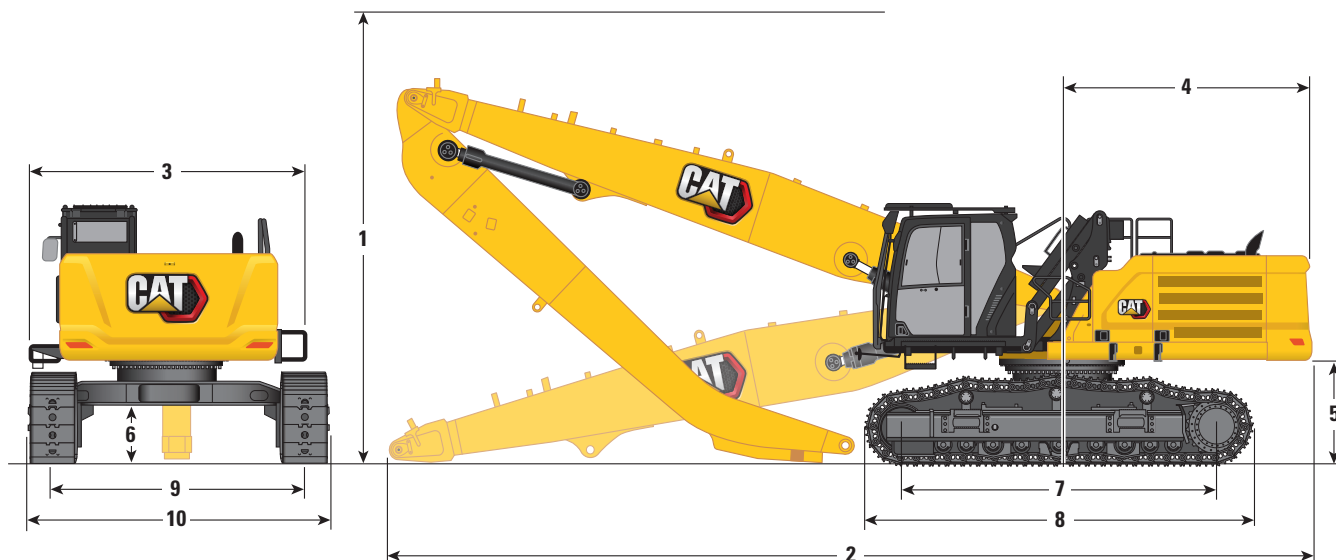
## Major Component Weights

	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 <sup>3</sup> /1.0 yd <sup>3</sup> )	1674	3,690
GSH425-950-S (0.95 m <sup>3</sup> /1.25 yd <sup>3</sup> )	1712	3,770
GSH425-1150-S (1.15 m <sup>3</sup> /1.5 yd <sup>3</sup> )	1767	3,900
GSH440-950-S (0.95 m <sup>3</sup> /1.25 yd <sup>3</sup> )	2183	4,810
GSH525-750-S (0.75 m <sup>3</sup> /1.0 yd <sup>3</sup> )	2215	4,880
GSH525-750-C (0.75 m <sup>3</sup> /1.0 yd <sup>3</sup> )	2311	5,090
GSH525-950-S (0.95 m <sup>3</sup> /1.25 yd <sup>3</sup> )	1976	4,360
GSH525-950-C (0.95 m <sup>3</sup> /1.25 yd <sup>3</sup> )	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"
Extended	3720 mm	12'2"	3720 mm	12'2"

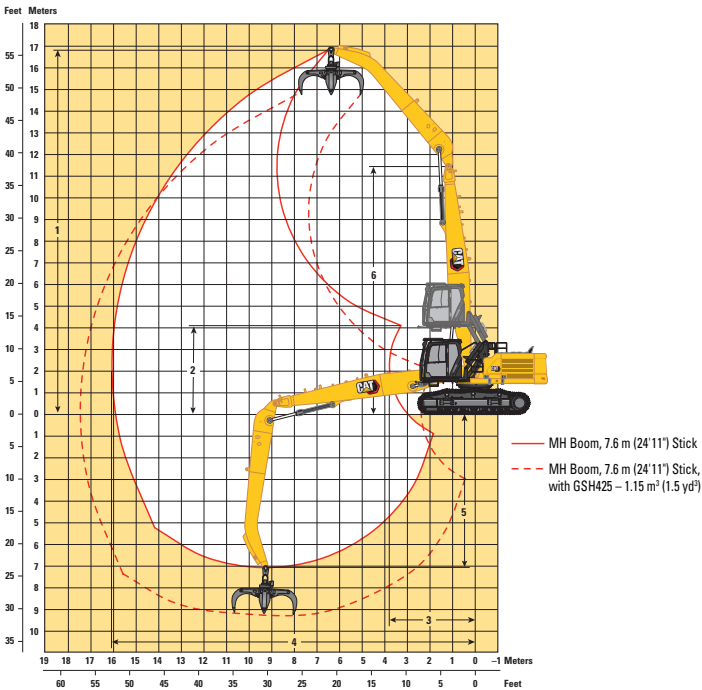
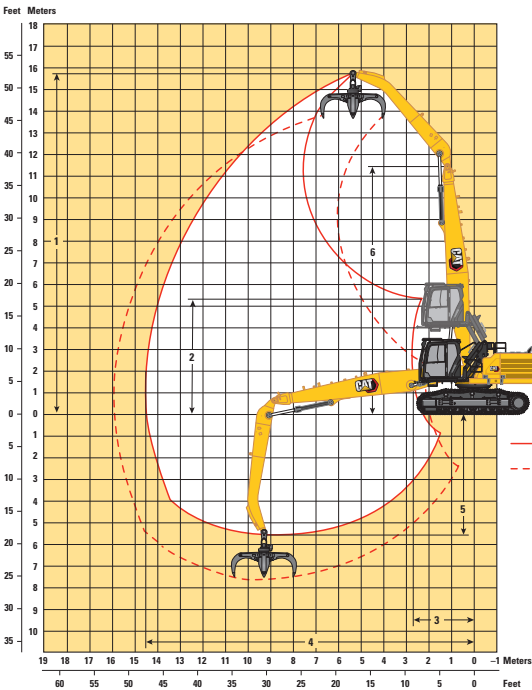
#### 10 Undercarriage Width

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

# 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")

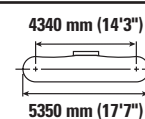
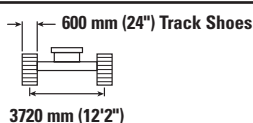
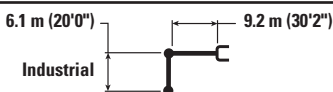
1 Maximum Height*	15 770 mm	51'9"	16 850 mm	55'3"
2 Minimum Height*	5530 mm	18'2"	4090 mm	13'5"
3 Minimum Swing Radius - Front	2730 mm	8'11"	3870 mm	12'8"
4 Maximum Reach*	14 620 mm	48'0"	16 010 mm	52'6"
5 Maximum Depth*	5590 mm	18'4"	7090 mm	23'3"
6 Boom Pin Height	11 450 mm	37'7"	11 450 mm	37'7"













\*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 *13,800	*6050 *13,800	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	4550 10,050	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	9150 19,700	*4850 *10,650	4450 9,750	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	11 300 24,400	*9400 *20,300	8750 18,850	*4900 *10,800	4350 9,600	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	10 900 23,450	*9150 *19,750	8450 18,200	*4600 *10,100	4400 9,650	14 440 47'4"
-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	8250 17,750	*4250 *9,300	*4250 *9,300	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 *8,200	*3750 *8,200	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 ±5% for all available track shoes.

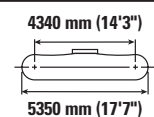
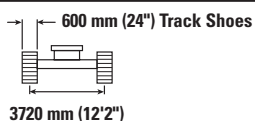
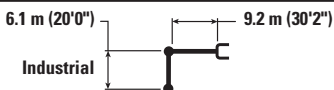
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









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# MH3250 Material Handler Specifications

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

Without attachment



		10 500 mm (35'0")		12 000 mm (40'0")		13 500 mm (45'0")				
										mm ft/in
15 000 mm 50'0"	kg lb							*6050 <b>*13,800</b>	*6050 <b>*13,800</b>	7080 <b>21'8"</b>
13 500 mm 45'0"	kg lb							*5300 <b>*11,800</b>	*5300 <b>*11,800</b>	9310 <b>29'7"</b>
12 000 mm 40'0"	kg lb	*5800 <b>*11,050</b>	*5800 <b>*11,050</b>					*4900 <b>*10,850</b>	*4900 <b>*10,850</b>	10 880 <b>35'1"</b>
10 500 mm 35'0"	kg lb	*7500 <b>*16,350</b>	*7500 <b>*16,350</b>	*4850	*4850			*4700 <b>*10,350</b>	*4700 <b>*10,350</b>	12 070 <b>39'2"</b>
9000 mm 30'0"	kg lb	*7500 <b>*16,350</b>	*7500 <b>*16,350</b>	*6800 <b>*14,250</b>	6550 <b>14,000</b>			*4600 <b>*10,100</b>	*4600 <b>*10,100</b>	12 970 <b>42'3"</b>
7500 mm 25'0"	kg lb	*7600 <b>*16,550</b>	*7600 <b>*16,550</b>	*6800 <b>*14,750</b>	6450 <b>13,850</b>	*5050	*5050	*4550 <b>*10,000</b>	*4550 <b>*10,000</b>	13 650 <b>44'7"</b>
6000 mm 20'0"	kg lb	*7750 <b>*16,800</b>	*7750 <b>*16,800</b>	*6850 <b>*14,850</b>	6300 <b>13,600</b>	6050 <b>12,950</b>	5200 <b>11,150</b>	*4600 <b>*10,100</b>	*4600 <b>*10,100</b>	14 140 <b>46'3"</b>
4500 mm 15'0"	kg lb	*7900 <b>*17,100</b>	7550 <b>16,300</b>	*6900 <b>*14,900</b>	6150 <b>13,250</b>	5950 <b>12,750</b>	5100 <b>10,950</b>	*4700 <b>*10,300</b>	4550 <b>10,050</b>	14 450 <b>47'4"</b>
3000 mm 10'0"	kg lb	*7950 <b>*17,200</b>	7300 <b>15,700</b>	*6850 <b>*14,850</b>	6000 <b>12,850</b>	5850 <b>12,550</b>	5000 <b>10,750</b>	*4850 <b>*10,650</b>	4450 <b>9,750</b>	14 600 <b>47'10"</b>
1500 mm 5'0"	kg lb	*7900 <b>*17,100</b>	7050 <b>15,150</b>	*6750 <b>*14,550</b>	5800 <b>12,500</b>	*5700 <b>*12,250</b>	4900 <b>10,550</b>	*4900 <b>*10,800</b>	4350 <b>9,600</b>	14 600 <b>47'10"</b>
0 mm 0'0"	kg lb	*7650 <b>*16,550</b>	6850 <b>14,700</b>	*6450 <b>*13,900</b>	5700 <b>12,250</b>	*5350 <b>*11,450</b>	4800 <b>10,350</b>	*4600 <b>*10,100</b>	4400 <b>9,650</b>	14 440 <b>47'4"</b>
-1500 mm -5'0"	kg lb	*7150 <b>*15,450</b>	6700 <b>14,400</b>	*5950 <b>*12,800</b>	5600 <b>12,050</b>	*4800 <b>*10,100</b>	4800 <b>*10,100</b>	*4250 <b>*9,300</b>	*4250 <b>*9,300</b>	14 120 <b>46'3"</b>
-3000 mm -10'0"	kg lb	*6400 <b>*13,700</b>	*6400 <b>*13,700</b>	*5200 <b>*11,050</b>	*5200 <b>*11,050</b>	*3900	*3900	*3750 <b>*8,200</b>	*3750 <b>*8,200</b>	13 620 <b>44'7"</b>
-4500 mm -15'0"	kg lb	*5250 <b>*11,100</b>	*5250 <b>*11,100</b>	*4050 <b>*8,350</b>	*4050 <b>*8,350</b>			*3500 <b>*7,700</b>	*3500 <b>*7,700</b>	12 600 <b>40'11"</b>



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 ±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)

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 *9,800	*4150 *9,250	*4150 *9,250	9640 30'6"
13 500 mm 45'0"	kg lb									*6600 *13,850	*6600 *13,850	*3750 *8,300	*3750 *8,300	11 370 36'6"
12 000 mm 40'0"	kg lb									*7400 *16,200	*7400 *16,200	*3500 *7,750	*3500 *7,750	12 690 41'1"
10 500 mm 35'0"	kg lb									*7400 *16,150	*7400 *16,150	*3400 *7,450	*3400 *7,450	13 720 44'7"
9000 mm 30'0"	kg lb									*7550 *16,350	*7550 *16,350	*3300 *7,250	*3300 *7,250	14 520 47'4"
7500 mm 25'0"	kg lb									*7800 *16,900	*7800 *16,900	*3300 *7,200	*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	*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	8900 19,150	*3600 *7,950	*3600 *7,950	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	11 050 23,750	*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	10 600 22,800	*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	8000 17,200	*3450 *7,600	*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	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	*3100 *6,900	*3100 *6,900	13 040 42'2"



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.

(continued on next page)

# MH3250 Material Handler Specifications

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

Without attachment

		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	*4150 *9,250	9640 30'6"
13 500 mm 45'0"	kg lb	*5050 *10,050	*5050 *10,050							*3750 *8,300	*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	*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	*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	*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	5350 11,400	*3600 *3600		*3300 *7,200	*3300 *7,200	15 130 49'5"
6000 mm 20'0"	kg lb	*7200 *15,550	*7200 *15,550	*6400 *13,900	6400 13,750	*5750 *12,450	5250 11,200	*4650 *8,900	4300 *8,900	*3300 *7,250	*3300 *7,250	15 570 50'11"
4500 mm 15'0"	kg lb	*7400 *16,000	*7400 *16,000	*6500 *14,100	6200 13,300	*5800 *12,500	5100 10,950	4950 10,600	4250 9,100	*3350 *7,400	*3350 *7,400	15 860 51'11"
3000 mm 10'0"	kg lb	*7600 *16,400	7400 15,900	*6600 *14,300	6000 12,850	5750 12,350	4950 10,650	4850 10,400	4150 8,900	*3450 *7,600	*3450 *7,600	16 000 52'5"
1500 mm 5'0"	kg lb	*7700 *16,600	7100 15,200	*6600 *14,300	5800 12,450	5600 12,050	4800 10,350	4750 10,250	4100 8,750	*3600 *7,950	*3600 *7,950	15 990 52'5"
0 mm 0'0"	kg lb	*7650 *16,500	6800 14,650	*6500 *14,050	5600 12,050	5500 11,800	4700 10,100	*4650 *9,900	4000 8,600	*3800 *8,400	3700 8,100	15 850 51'11"
-1500 mm -5'0"	kg lb	*7400 *15,950	6600 14,200	*6250 *13,400	5450 11,700	*5250 *11,200	4600 9,900	*4250 *8,900	3950 8,500	*3800 *8,350	3750 8,250	15 550 50'11"
-3000 mm -10'0"	kg lb	*6900 *14,850	6450 13,850	*5750 *12,350	5350 11,500	*4700 *10,000	4550 9,750	*3550 *3550		*3450 *7,600	*3450 *7,600	15 110 49'5"
-4500 mm -15'0"	kg lb	*6150 *13,100	*6150 *13,100	*5000 *10,650	*5000 *10,650	*3900 *8,100	*3900 *8,100			*3050 *6,600	*3050 *6,600	14 490 47'4"
-6000 mm -20'0"	kg lb	*5000 *10,500	*5000 *10,500	*3900 *8,100	*3900 *8,100					*3100 *6,900	*3100 *6,900	13 040 42'2"



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	●	◆
Clamshell Grapples	CTV20-1300	●	◆
	CTV20-1500	○	◆
	CTV20-1700	○	
	CTV20-1900	○	
	CTV20-2300	◆	
	CTV30-1700	◆	
	CTV30-1900	◆	

### Maximum Material Density

● 1800 kg/m<sup>3</sup> (3,000 lb/yd<sup>3</sup>)

○ 1200 kg/m<sup>3</sup> (2,000 lb/yd<sup>3</sup>)

◆ 900 kg/m<sup>3</sup> (1,500 lb/yd<sup>3</sup>)

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/m<sup>3</sup> (3,000 lb/yd<sup>3</sup>)

○ 1200 kg/m<sup>3</sup> (2,000 lb/yd<sup>3</sup>)

◆ 900 kg/m<sup>3</sup> (1,500 lb/yd<sup>3</sup>)

◇ 600 kg/m<sup>3</sup> (1,000 lb/yd<sup>3</sup>)

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
<b>CAB</b>		
Advanced sound suppressed with rubber mount	✓	
High-resolution 254 mm (10") LCD touchscreen monitor	✓	
Automatic bi-level air conditioner	✓	
Jog dial and shortcut keys for monitor control	✓	
Keyless push-to-start engine control	✓	
Tilt-up left-side console	✓	
Air suspension premium seat with headrest, heater, ventilator	✓	
Height-adjustable console, infinite with no tool	✓	
51 mm (2") orange seat belt	✓	
Bluetooth® integrated radio (including USB, auxiliary port and microphone)	✓	
2 × 12V DC outlets	✓	
Auxiliary relay		✓
Document storage	✓	
Rear storage with net	✓	
Overhead storage with net	✓	
Cup holder	✓	
Fixed one piece windshield (P5A glass)	✓	
Parallel wiper with washer	✓	
Fixed P5A glass roof window (with one piece windshield)	✓	
Dome and lower LED interior lights	✓	
Floor welcome light	✓	
Roller front sunscreen	✓	
Roller rear sunscreen	✓	
Rear window emergency exit	✓	
Washable floor mat	✓	
Beacon ready	✓	
Operator Protective Guards (OPG)	✓	

<sup>1</sup>Provides 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.

<sup>2</sup>Not compatible with 2D E-fence or Cab avoidance.

<sup>3</sup>North America only.

	Standard	Optional
<b>CAT TECHNOLOGY</b>		
Cat Equipment Management:		
– VisionLink®	✓ <sup>1</sup>	
– Remote Flash	✓	
– Remote Troubleshoot	✓	
<b>ENGINE</b>		
3000 m (9,840 ft) altitude capability with no derate	✓	
115 amp alternator	✓	
–32° C (–25° F) cold start capability	✓	
52° C (125° F) high ambient temperature capability	✓	
Single plane three horizontal cooling system	✓	
Double element air filter with integrated pre-cleaner	✓	
Dual stage 4 micron main filter and 10 micron primary filter with water separator and water separator indicator switch in fuel line	✓	
Electric fuel priming pump	✓	
Secure start with Personal Identification Number (PIN) code	✓	
Remote disable	✓	
Automatic engine speed control	✓	
<b>HYDRAULIC SYSTEM</b>		
Electronic main control valve	✓	
Hydraulic main pump	✓	
Auto warm up and cold lock out	✓	
Regeneration circuit for boom and stick	✓	
Boom and stick lowering control check valves	✓	
Medium pressure (grapple rotate) and cab riser valve	✓	
Capability of installing additional generator pump and circuit	✓	
Reverse swing damping valve	✓	
Automatic swing parking brake	✓	
High performance hydraulic return filter	✓	
Two speed travel	✓	
SmartBoom™	✓ <sup>2</sup>	
Fine swing capability	✓ <sup>3</sup>	
Capability of installing Cat Bio Hydraulic Oil	✓	

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

## Dealer Installed Kits and Attachments

Attachments may vary. Consult your Cat dealer for details.

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### 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) or 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.

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

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

## Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.2 kg (2.64 lb) of refrigerant which has a CO<sub>2</sub> equivalent of 1.716 metric tonnes (1.892 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 amended by 2005/88/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 HYDO™ 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%



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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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