



Purpose Built for Material Handling

The 375 Material Handler is a purpose designed and built machine to meet the demanding needs of scrap and bulk material handling customers.

The 375 MH upper includes a reinforced material handling upper frame mounted on an extra high and wide carbody to allow maximum use of hydraulic lift capacity over both the front and side. Material handling counterweight, Caterpillar® grapple/rotate hydraulics, generator hydraulics, cold weather starting aid and spaced oil cooler for easy clean out are all standard features of the 375 MH.

Optional equipment includes a Caterpillar 40 kW generator, a right front corner mounted oil cooler for easy cleaning and maintenance, flat track shoes to minimize surface damage, a 6' up 6' out cab riser to improve visibility in barge loading applications, cab guarding and optional lighting.

Two front linkage options increase the versatility of this productive material handler. The standard machine has a 55' Pierce-Pacific two-piece cambered boom front which will support a 5 yard clamshell bucket for barge unloading, a 5 yard scrap grapple or an 87" diameter magnet. A 68' two-piece front that can be used with a 3 yard grapple or a 72" diameter

magnet is also available. The Caterpillar 40 kW generator can power up to an 87" diameter magnet. A Caterpillar state-of-the-art electronic magnet controller coupled with a hydraulically driven generator completely eliminates traditional contactor maintenance and is supported and warranted through your Cat Dealer.

The Operator's Work Station is raised on a 6'5" cab riser which includes a wraparound platform and stairs for easy access and maintenance of the windows. The sound suppressed cab includes a fully adjustable ergonomic seat, standard air conditioning and large, wide windows for excellent operator visibility. All of these features translate into operator comfort and higher productivity.

Specifications

375 MH Material Handler

Cat 3406DI ATAAC Diesel Engine

Flywheel Power	319 kW	428 hp
Operating Weight (estimated)	92 081 kg	203,000 lb
Drawbar Pull (average)	546.6 kN	122,800 lb
Max Travel Speed	4.5 km/h	2.8 mph

Weights

	kg	lb
Operating Weight*	92 081	203,000
Upper and Carbody**	34 500	76,000
Counterweight	13 980	30,800
Track Roller Frame (each) with 30” flat shoes	14 605	32,200
55’0” (16.8 m) Pierce Front (estimated with cylinders)	13 730	30,250
68’0” (20.7 m) Front (with cylinders)	17 700	39,000

All weights shown are for machines equipped with 30” flat shoes.
*Estimated weight with 55’ Pierce front.
**Stripped for shipment (no cab, catwalks or stairs).

Swing Mechanism

Two fixed-displacement, axial-piston motors power swing mechanism.

- Triple-planetary, double-reduction gear set drives pinion. Pinion is enclosed in grease bath.
- Automatic, oil-disc brake applies four seconds after swing control is released.

Swing Speed	5.7 rpm
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Shipping Dimensions

	mm	ft
Shipping Height – cab tipped	3810	12’6”
Operating Height – to top of cab	5969	19’7”
Shipping Length – riser to counterweight	7772	25’6”
Track Width*	5588	18’4”
Track Length	6350	20’10”

*Requires removal of catwalks, walkways and ladder.

Hydraulic System

Two variable-displacement, axial-piston pumps power the boom, stick, jib and travel circuits. A third pump powers the swing circuit. One, single-section, gear-type pump powers the pilot circuit.

Main Implement System:

Maximum flow	2 x 436 liters/min	2 x 115 gpm
Swing Pump	1 x 341 liters/min	1 x 90 gpm
Maximum pressure:		
Implements	31 350 kPa	4,550 psi
Travel	34 470 kPa	5,003 psi
Swing	27 477 kPa	3,988 psi

Rotate/Fan Pump:

Maximum flow	59 liters/min	15.5 gpm
Maximum Pressure	17 225 kPa	2,500 psi

Auxiliary Pumps for Generator:

Pump 1		
Maximum Flow	95 liters/min	25 gpm
Maximum Pressure	22 737 kPa	3,300 psi
Pump 2		
Maximum Flow	190 liters/min	50 gpm
Maximum Pressure	22 737 kPa	3,300 psi

Pilot System:

Maximum Flow	45.5 liters/min	12 gpm
Maximum Pressure	3571 kPa	526 psi

Cylinders, Bore and Stroke:

	mm	in.
Boom (2)	200 x 1967	7.8 x 77.4
Stick (1)*	200 x 1967	7.8 x 77.4
Stick (2)**	220 x 2262	8.7 x 89.1

*One stick cylinder on 55’ front
**Two stick cylinders on 68’ front

Refill Capacities

	liters	U.S. gallons
Fuel Tank	993	262
Cooling System	95	25
Lubrication:		
Engine Oil	64	17
Swing Drive (each)	14	3.6
Final Drives (each)	25	6.6
Hydraulic System		
(Includes tank)	997	263
Hydraulic Tank	781	206

375 MH equipped with a 55 ft Pierce-Pacific two-piece front

Reach		0.0 ft	15.0 ft	20.0 ft	25.0 ft	30.0 ft	35.0 ft	40.0 ft	45.0 ft	50.0 ft	55.0 ft
Height											
50.0 ft	lb					43.3	37.2				
45.0 ft	lb					42.3	36.5	32.1			
40.0 ft	lb					41.4	35.8	31.6			
35.0 ft	lb					40.6	35.1	31.1	28.0		
30.0 ft	lb					40.0	34.6	30.7	27.7	25.1	
25.0 ft	lb				47.5	39.5	34.1	30.3	27.4	25.0	
20.0 ft	lb				47.3	39.2	33.9	30.0	27.2	24.9	
15.0 ft	lb				47.3	39.1	33.7	29.9	27.0	24.8	
10.0 ft	lb					39.1	33.6	29.8	27.0	24.8	23.5
5.0 ft	lb				47.3	39.1	33.7	29.9	27.1	24.8	
Ground Line	lb				47.3	39.3	33.9	30.1	27.2	25.0	
-5.0 ft	lb			29.4	47.5	39.6	34.2	30.4	27.4	25.1	
-10.0 ft	lb		14.9	40.4	48.0	40.1	34.6	30.7	27.8		
-15.0 ft	lb			46.1	48.7	40.7	35.2	31.2	28.1		
-20.0 ft	lb					41.5	35.9				

Specificaons shown indicate load is limited by hydraulic capacity. Lift capacity ratings are based on SAE standard J1097 and are hydraulically limited over both front and side. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% tipping capacity.

375 MH equipped with a 68 ft Caterpillar two-piece front

Reach		4.5 m 15 ft	6.0 m 20 ft	7.5 m 25 ft	9.0 m 30 ft	10.5 m 35 ft	12.0 m 40 ft	13.5 m 45 ft	15.0 m 50 ft	16.5 m 55 ft	18.0 m 60 ft	19.5 m 65 ft	21.0 m 70 ft	Max kg Max lb	Max m Max ft
Height															
15.0 m 50.0 ft	kg lb								18.1	7.7 16.9				7.1 15.7	17.15 55.67
13.5 m 45.0 ft	kg lb									7.7 18.0	7.2 16.8			6.9 15.4	18.14 59.07
12.0 m 40.0 ft	kg lb							8.3 18.1	7.7 16.8	7.2 15.7				6.8 15.2	18.95 61.87
10.5 m 35.0 ft	kg lb							8.4 18.3	7.7 16.9	7.2 15.7	6.7			6.6 14.8	19.62 64.16
9.0 m 30.0 ft	kg lb							8.5 18.6	7.8 17.1	7.2 15.8	6.7 14.6			6.4 14.3	20.16 65.98
7.5 m 25.0 ft	kg lb						20.4 9.6	8.7 19.9	7.9 18.9	7.3 15.9	6.7 14.6			6.3 14.0	20.57 67.38
6.0 m 20.0 ft	kg lb				12.6 27.4	11.0 24.0	9.8 21.4	8.8 19.3	8.0 17.5	7.3 16.0	6.7 14.6			6.1 13.7	20.86 68.39
4.5 m 15.0 ft	kg lb	63.9	24.1 52.4	18.8 40.9	15.4 33.6	13.1 28.5	11.4 24.8	10.0 21.9	9.0 19.6	8.1 17.7	7.4 16.1	6.7 14.6	6.0	6.0 13.4	21.04 69.01
3.0 m 10.0 ft	kg lb		23.9 55.9	19.8 43.1	16.1 35.1	13.5 29.5	11.7 25.5	10.2 22.3	9.1 19.9	8.2 17.8	7.4 16.1	6.7 14.5	6.0	5.9 13.2	21.11 69.27
1.5 m 5.0 ft	kg lb		14.8 34.3	20.4 44.4	16.5 36.0	13.8 30.2	11.9 25.9	10.4 22.6	9.2 20.0	8.2 17.9	7.4 16.0	6.6 14.3	5.8	5.8 12.9	21.08 69.16
Ground Line	kg lb		12.5 28.6	20.4 44.5	16.6 36.3	14.0 30.4	12.0 26.1	10.4 22.7	9.2 20.0	8.2 17.8	7.3 15.8	6.5 14.0		5.7 12.7	20.93 68.68
-1.5 m -5.0 ft	kg lb		12.2 27.6	18.5 42.3	16.4 35.9	13.8 30.2	11.9 25.9	10.3 22.5	9.1 19.8	8.0 17.5	7.1 15.4	6.3 13.5		5.6 12.4	20.68 67.83
-3.0 m -10.0 ft	kg lb	21.4	12.5 28.2	17.4 39.7	15.9 34.7	13.5 29.4	11.6 25.3	10.1 22.0	8.9 19.3	7.8 16.9	6.9 14.8	5.9 12.7		5.4 12.0	20.31 66.59
-4.5 m -15.0 ft	kg lb	10.5 23.6	13.1 29.4	17.2 38.8	15.1 32.9	12.9 28.1	11.1 24.3	9.7 21.1	8.5 18.4	7.4 16.1	6.4 13.9	5.4		5.2 11.6	19.82 64.93
-6.0 m -20.0 ft	kg lb	11.4 25.5	13.7 30.8	16.1 35.2	13.9 30.3	12.0 26.2	10.5 22.7	9.1 19.8	7.9 17.2	6.9 14.8	5.8 12.4			4.9 11.0	19.20 62.83
-7.5 m -25.0 ft	kg lb		14.4 32.3	14.2 30.8	12.4 27.0	10.9 23.6	9.5 20.5	8.3 17.8	7.1 15.4	6.1 13.0	5.0 10.3			4.6 10.2	18.43 60.24
-9.0 m -30.0 ft	kg lb			11.8 25.5	10.6 22.9	9.4 20.2	8.2 17.7	7.1 15.2	6.1 12.9	5.0 10.3				4.1 9.1	17.50 57.09
-10.5 m -35.0 ft	kg lb					7.5 13.9	6.6 11.8	5.6	4.6						

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Standard Equipment

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

Air conditioner	Lights, interior	Guards:
Air precleaner	Joysticks, pilot-operated, adjustable	Heavy duty, below engine
Alarm, travel	Radio mounting	Track guiding
Alternator, 75-amp	Seat belt, retractable	Lights, working:
Automatic engine control	Seat, KAB414 with tilt and suspension	Frame-mounted (2)
Automatic swing brake	Skylight (Glass Roof)	Cab-mounted (2)
Cab, sound-suppressed, includes	Travel controls, pedals with removable levers	Locks, door and cap, one-key system
Air conditioning	Windscreen, one-piece, non-retractable	Long track roller frames
Ash tray	Windshield wipers and washers	Mirrors:
Cigar lighter	Cab riser, 6'5"	Frame, right
Coat hook	Catwalks, left and right	Cab, left
Compartments:	Counterweight: 31,000 lbs	Power mode selector
Literature	Engine, Cat 3406C DI ATAAC	Spaced oil cooler
Storage, lunch box	Generator hydraulics & rotate hydraulics	Starting aid, ether
Floor mat	Grapple hydraulic filters at boom	Starting aid, cold weather
Heater with defroster		Straight travel circuit
Horn, signaling/alerting		Track shoes: 30" double grouser
Hydraulic/starting systems lock lever		Travel, two-speed
Instrument panel with LCD gauges		Wide carbody

Optional Equipment

6' up, 6' out Riser	Flat track shoes*
Cab guarding, front window and overhead*	68' two-piece front
40 kW Generator set	Right front oil cooler
Cab mounted lighting package*	Extra long roller frames

*Model pictured on front page equipped with these options.

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Materials and specifications subject to change without notice.

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