MH3037

Wheel Material Handler

Engine		
Engine Model	Cat® C7 ACERT™	
Net Power (ISO 9249)	168 kW	225 hp
Weights		
Operating Weight	37 600 kg	82,900 lb

Working Ranges		
Long Boom/Long Stick		
Maximum Reach	15.9 m	52'0"
Maximum Height	17.7 m	58'0"
Maximum Depth	4.9 m	16'0"

Introduction

We know that when it comes to material handling equipment, your success depends on high productivity and dependable performance. The new Cat MH3037 Material Handler is designed where harsh environments and severe duty applications of industrial, scrap recycling, and bulk handling operations call for safe, quality and reliable products. The MH3037 is a purpose-built material handler from the ground up. Everything about this machine is designed to do one thing well – move material.

Contents


CAT
MH3037

Key Features

Commitment from the Ground Up

Safety and Comfort

Decrease the risk for slips and falls with the patented “ground entry and exit” hydraulic cab riser system. This innovative system will lower the cab to ground level for operator entry and exit. This is one of many features the MH3037 brings to improve the safety and comfort of your operations.

Efficiency

Recognizing that fuel efficiency is directly affected by hydraulic performance, the hydraulic system in the MH3037 is carefully designed to provide the work needed without wasting fuel. A high capacity hydraulic cooling system keeps operating temperatures low, resulting in longer component life, higher efficiency and lower repair cost.

Structural Integrity

You expect quality and durability. The MH3037 is purpose-built from the ground up with frame construction that utilizes continuous welds, extensive chamfering, “feathered” weld end points and radiused corners. Critical areas use high grade structural steel, and areas susceptible to side loading have pins oversized by 15%-20%, with threaded retention. To withstand extreme loads encountered in material handling applications, both the boom and the stick are built from single piece continuous top and side plates – no seams or baffles.

User-Friendly Technology

Effective operator and machine communication is critical in any job application to ensure productivity. The MH3037 features Cat Product Link™ in conjunction with a user-friendly operating system that clearly communicates machine conditions in plain language, no need to research code definitions. In addition, the in-cab monitor reports machine conditions, warnings and maintenance checks. Operators can adjust machine functions, such as joystick control sensitivity through the operating system.

Lower Operating Cost

Low operating cost was one of the top priorities throughout the MH3037’s design phase. The combination of extending component life, optimizing fuel efficiency and an innovative hydraulic system all work together to provide the lowest possible operating cost.

Engine and Power Train
More Power and Efficiency

Precise Engine Control
The ADEM™ A4 (Advanced Diesel Engine Management) provides quick response to engine demands. Utilizing flexible fuel mapping, the ADEM A4 electronically controlled fuel module monitors performance with sensors in the air intake, fuel, exhaust and cooling system to produce higher efficiency and lower emissions.

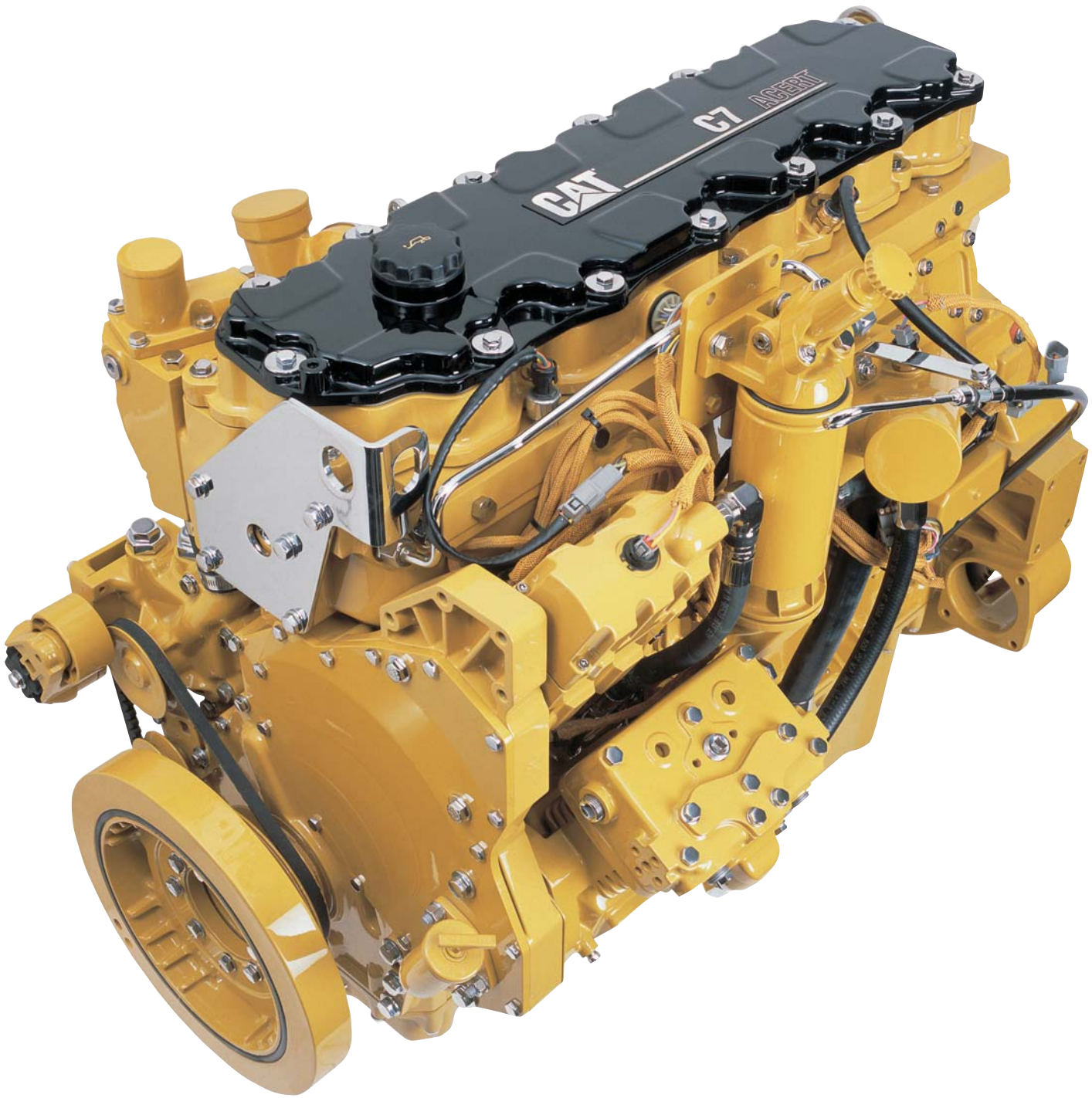
Fuel Delivery Technology
The Cat C7 ACERT features electronic controls that govern mechanically actuated unit fuel injection system. With a carefully designed combustion cycle, the C7 lowers emissions produced and improves fuel economy.

Powerful Engine Cooling System
The MH3037's engine cooling system adjusts to demands of work applications. Rated for a 202 kW (275 hp) engine, the cooling system incorporates a variable pitch, auto-reversing Flexxaire cooling fan that runs on set intervals to purge debris from the cooling system, extending component life.

Enhanced Fuel Efficiency with Auto Throttle
Fuel can drastically affect your businesses' operating cost. The fuel saving auto throttle feature reduces the engine rpm back to idle after five seconds of inactivity, decreasing fuel consumption.

Dependable Power Train
True four wheel drive with limited slip differentials front and rear provide excellent maneuvering performance even on unimproved terrain. Power is provided by a variable displacement hydraulic motor through a 2-speed transmission which drives the two axles. Oscillating rear housing with lock-out feature and solid rubber tires provide machine stability and traction.

Convenient Travel
Machine movement is regulated through a two mode shift on the fly travel system that includes a creeper mode up to 5.3 km/h (3.3 mph) and a standard mode up to 20 km/h (12.4 mph). Steering and speed are controlled through the joystick controls while forward and reverse direction is controlled through a right foot pedal.



More power when you need it, the Cat C7 ACERT large displacement engine optimizes machine performance and enhances fuel efficiency while meeting Tier 3/Stage IIIA emission regulations. The C7 is a 7.2 L (442 in^3), in-line 6 cylinder engine rated at 168 kW (225 hp). This market proven Cat engine produces enough power to run simultaneous machine operations.

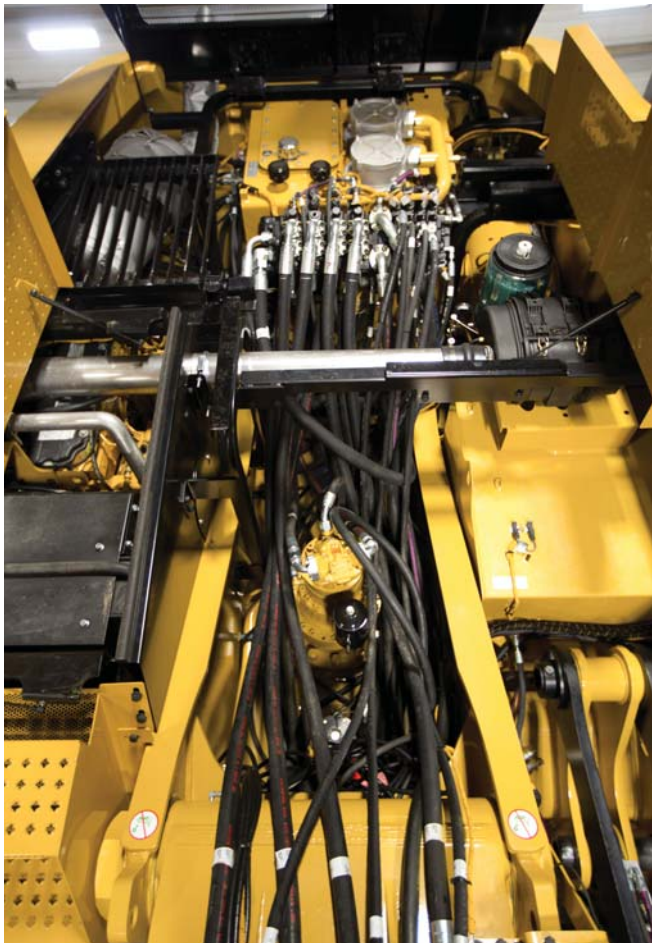
Hydraulic System

Effective Hydraulics – Improve Your Machine's Performance

Machine productivity depends on hydraulic performance. The MH3037's hydraulic system is designed to provide power without compromising efficiency, and protect component life to keep your machine running.

Hydraulic Performance

Proper power distribution on the MH3037 allows you to run simultaneous operations without compromising performance or efficiency. A single pump system produces hydraulic power for the implements, work tools, travel and cab riser systems. A dedicated closed loop swing system provides swing priority at all times, providing improved power management and performance.



Low Operating Temperatures

Running at lower operating temperatures protects component life. The MH3037's hydraulic system is cooled through its own cooler mounted side-by-side with the engine radiator and air-to-air aftercooler (ATAAC). Mounting these cores side-by-side improves cooling efficiency and allows for easier cleaning of the cores in dirty environments. The variable speed auto-reversing fan assists in keeping the cores operating at peak efficiency and minimizing downtime for cleaning.

Fast Cycle Times

Faster cycle times increase productivity. An efficient load sensing hydraulic system supplies quick lift and implement performance while providing control regardless of boom, stick or travel demands. The dedicated hydrostatic swing system ensures that swing speed is not affected by other machine functions.

Flow Management

Operating costs are cut with flow management technologies. Flow-sharing compensation delivers flow on-demand for smooth, efficient operations, regardless of load. A load sensing pump generates only the flow and pressure required to meet system demands based on the work being done.

Structure and Frame

Built Quality – Structural Integrity

Your operators face harsh working environments that can affect the durability of your equipment. With this in mind, the MH3037 was built beyond industry standards. Structures were subjected to extensive strain gauge testing and finite element analysis to ensure built quality and durability. Not cutting any corners, structural grade steel is used in critical areas.

Built to last, the MH3037 has continuous welds along with chamfering and feathering techniques. Pins and bushings are oversized to prevent stress failures and lubricated through the automatic lubrication system to enhance component durability.

Frame

The MH3037's frame is divided into an upper and lower portion. The upper frame houses the hydraulic cab riser, counterweight, boom, engine and hydraulic system. The upper frame attaches to the lower frame through the MH3037's rotating axis. The lower frame is high off the ground to prevent any materials from dragging and the design is tapered to evenly distribute the weight on its four outriggers.

The hydraulic cab riser linkage is integrated into the left front corner of the upper frame for rigid support providing the operator with a stable work platform. Less maintenance is required with greaseless bearings in the cab riser linkage.

The MH3037 is meant to be an integral part of your operations for many years to come, built strong with thick plates, radiused corners and detailed welds.

Front Linkage

Durability – Built with No Compromises

You know that a material handler works only as good as its front linkage is able to handle the job. The MH3037's boom and stick are purpose built for the loads encountered in bulk material handling applications.

Careful and detailed handling of stresses ensures that the MH3037 has the durability you need for your day-to-day operation. The boom and stick top and side plates are manufactured from single plates of steel to eliminate the need for internal baffles and cross boom weld joints. Feathered welds and strengthened connections compliment the structural integrity of the front linkage.

Automatic lubrication on linkage pins and bushings extend component life, protecting your investment.

Excellent lift performance is delivered with dual boom cylinders and stick cylinders. The 8.84 m (29'0") boom and a choice of two drop nose sticks 5.8 m (19'0") or 7.2 m (23'6") provide a horizontal reach of 14.4 m (47'4") and 15.9 m (52'0") and a large working envelope, minimizing machine travel and reducing down operation costs.

Integrated Technology

Efficiently Operate and Manage Your Machine

Manage Assets with Cat Product Link

Product Link helps you take the guesswork out of equipment management. With timely, useful information, you can better manage your assets and costs. Through the powerful, web-based VisionLink® application you have access to remote monitoring of equipment – see hours and location, site boundaries and maintenance management. When you know where and when your equipment is running, you can manage your fleet more efficiently and effectively. It pays to know Cat Product Link. Consult your Cat dealer for availability of this option.

Track Maintenance

Keep track of important maintenance with sensors in air filters and hydraulic filters. Warnings are displayed if maintenance is needed.
Additional maintenance checks are based on time intervals, and maintenance logs are saved on the operating system.

Simple Diagnostics

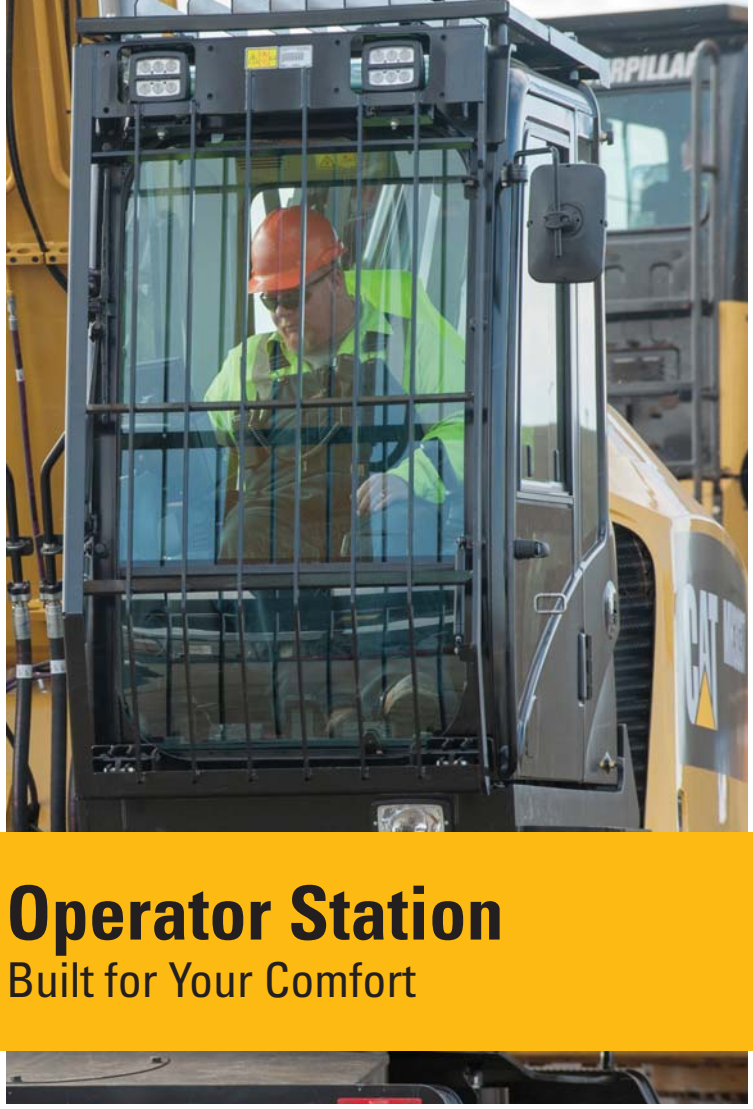
From the operator screen, all electronic inputs and outputs can be viewed to verify that they are working correctly. Engine fault codes, hydraulic pressure spikes and operating system diagnostic faults are logged.

Adjustable

Your operators can adjust main machine functions to accommodate their preferences. Standard and eco modes optimize operator comfort and efficiency.

Machine Communication

No need to look up what codes mean, the MH3037 will display in plain language machine settings, controls, faults and warnings. User-friendly communications allow for your operators to be focused on the job at hand.



Operate the MH3037 with less fatigue and greater comfort. The operator station is ergonomically designed to provide a quiet, safe and comfortable work environment. Highly visible monitors, easily accessible switch consoles and operating controls reduce fatigue for your operator. With large windows and joystick controlled steering the MH3037 cab provides ideal job site visibility.

Operator Station

Built for Your Comfort

Comfort with the Cat D Series Cab

Comfortable operators make productive operators, which is why the MH3037 is equipped with our Cat D Series cab. The interior of the cab is spacious, and controls are ergonomically located within comfortable reach for the operator. This sturdy operator station features window panes that are attached directly onto the frame eliminating the need for sills that may be visual obstacles and weak stress points. Operators will feel less fatigued after a day of work in the air-ride suspension seat with adjustable arm rests.

Convenient Cab Riser

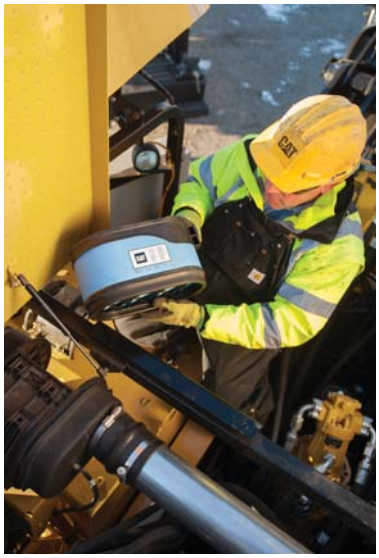
Avoid unnecessary hassles and potential injuries. Start your day walking into the cab at ground level with our innovative hydraulic cab riser system. The cab riser can reach a height of 5.5 m (18'0") (eye level) in approximately 8 seconds, and come back to the ground in approximately 10 seconds.

Increased Productivity with Electronic Joystick Controls

Experience smoother, faster production with electronic joystick controls. Customizable machine functions allows the machine to be fine tuned to operator preferences.

Serviceability

Efficient Servicing for More Productivity



Primary service points are easily accessible through convenient panels and platforms on the sides and top of the machine. Components can be easily located with the engine and cooling system's longitudinal layout. Panels are hinged with gas struts, ensuring that one technician can easily access all maintenance points.

Spacious Compartments

Purposefully designed, the spacious and lighted compartments allow for technicians to maneuver easily while accessing the engine, cooling system, hydraulic components and filters for maintenance and inspection.

Labeled Service Points

The guesswork has been taken out of identifying key hydraulic hoses and electrical wiring with name labels to ease maintenance.

Automatic Lubrication

Machine life is improved and operating costs are lowered by having the machine in charge of timely lubrication intervals. Upper auto-lube sends grease based on duration runtime. The machine is factory set to run grease point lubrication every 15 minutes of use. The lower is manually lubricated from a central grease point located behind the lower control valve on the carbody frame.

Guards, Railings and Anti-Slip Surfaces

Being able to safely service machinery is a primary concern for all owners. Equipped with handrails and anti-slip surfaces, technicians can safely perform inspections and maintenance.

Safety and Security

Your Safety Is Our Priority

Ground Access Cab

You are safer from the risk of slips and falls with the MH3037's patented ground entry and exit cab riser system. In the event of a power loss, a cab riser pressure release valve located in the operator station and at ground level allows for the cab to be lowered, enabling the operator to safely exit the machine.

MAINTAIN A CLEAN WORK STATION, SAFELY, CONVENIENTLY

Optional Falling Object Guard System (FOGS)

Falling and flying debris is one of the hazards of the workplace. To protect your operator, the MH3037 can come equipped with the impact-absorbing cab guard that conforms to ISO 10262 safety standards. The Falling Object Guarding System consists of both a top and front guard.

High Operator Visibility

The ability to see your work area is critical to a safe working environment. The cab is purposefully designed to provide high visibility and ensure that the operator can view his work area. The cab includes a polycarbonate skylight, removable window panes and a rear window that serves as an emergency exit. Joystick controls in lieu of a steering wheel provide a less obstructed front view. In addition, a cab mounted windshield wiper improves operator visibility in wet weather conditions.

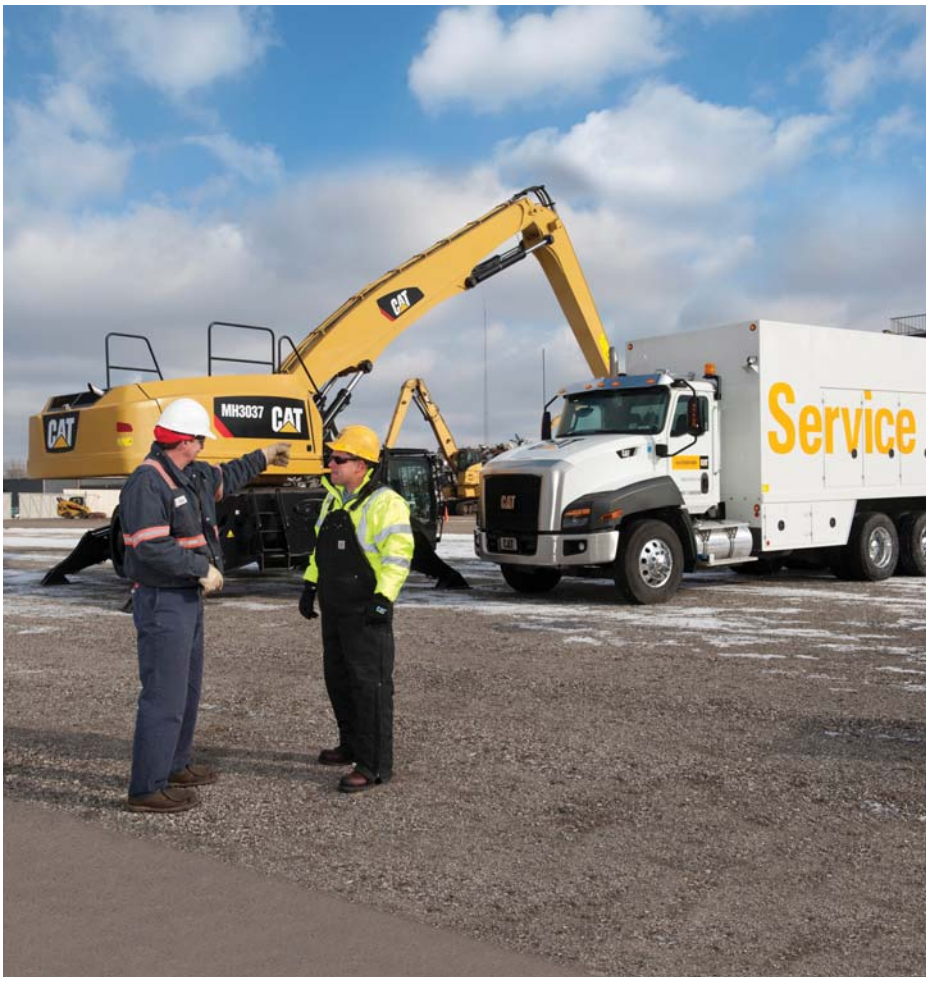
Rearview Camera

Having line of sight to what is happening behind the machine is vital in maintaining a safe work environment, which is why a rearview camera is mounted on the counterweight. The live audio and video transmission is fed through the HD color monitor in the cab.

Safer Operations

Maintain safe working distances with the stick limiter, which prevents the work tool from coming into close proximity to the operator station. Function override controls allow for up close work.

Complete Customer Care
Commitment to Your Uptime



Product Support
You can maximize your machine's uptime with the Cat worldwide dealer network. You can also decrease your repair costs by utilizing Cat remanufactured components.

Machine Selection
What are your job requirements and machine attachments? What production do you need? Your Cat dealer can provide recommendations to help you make the right machine configuration decisions.

Operation
You can boost your profits by improving your operator's techniques. Your Cat dealer has videos, literature and other ideas to help increase productivity. Caterpillar offers simulators and certified operator training to help maximize the return on your investment.

Purchase
You can ensure lower owning and operating costs by utilizing unique Cat dealer services and financing options.

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

Sustainability

Built for a Better Tomorrow

Low Emissions

MH3037, powered by the Cat C7 ACERT engine, meets U.S. EPA Tier 3 and EU Stage IIIA emission standards.

Rebuild

Major structures and components of the MH3037 are designed to be rebuilt, to extend the life of your machinery. The remanufactured and reused parts help to reduce waste, operating cost and impact to the environment.

Efficiency

The combination of an efficiently designed hydraulic system and a market proven efficient engine work together on the MH3037 to provide excellent fuel economy and still deliver the power you need.

Work Tool Attachments

Work Tools That Matter

Optional Cat® Generator

If your work tool or application needs additional power for operation, the MH3037 can come equipped with an optional 20 kW solid state generator. Experience enhanced sorting ability through the proprietary solid state generator control. The genset is capable of producing enough power to operate a 1.68 m (66") diameter magnet. The optional solid state genset would be housed in the engine compartment for ease of maintenance without obstructing other machine components.

Cat Orange Peel Grapples

A Cat Orange Peel Grapple is the perfect solution for material handlers in scrap yards, recycling plants and transfer stations. A 360° rotation system and 4-tine or 5-tine configuration efficiently and safely handles shredded scrap, waste, long structural beams, car bodies and many other materials.

Achieve Maximum Penetration

Tine angle and tip shape of the Cat grapple work together like daggers, punching deep into the scrap pile. The grapple's high contoured center profile further enhances penetration for a full load every time.

Stack Higher

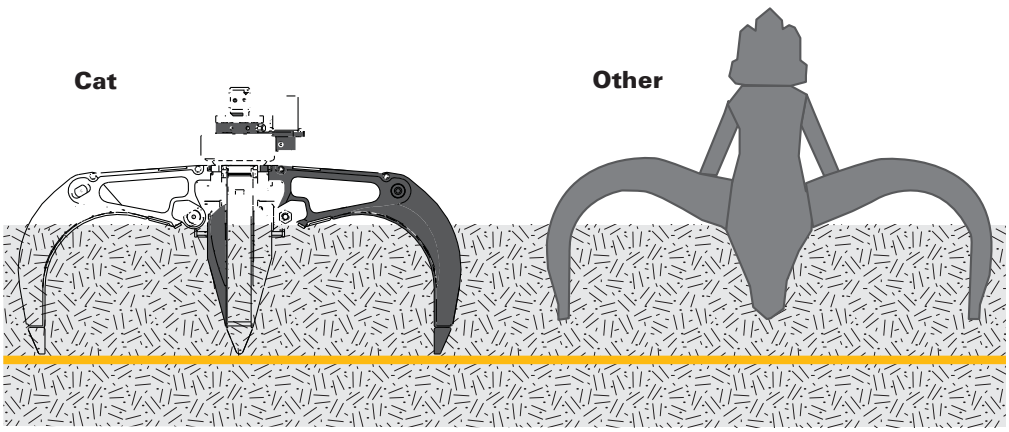
Cat Orange Peel Grapples have a low profile and short overall height, allowing the operator to reach and stack higher.

Models to Fit Your Application

Cat Orange Peel Grapples come with a 4-tine or 5-tine configuration and range in capacities from 0.57 to 0.96 m^3 (0.75 to 1.25 yd^3).

Reduced Damage and Downtime

Cat cylinders and hoses are located inside the grapple, protected against cutting and scoring from scrap impact. Four exposed connector lines to the machine are guarded – protecting them from damage.



MH3037 Wheel Material Handler Specifications

Engine

Engine Model	Cat C7 ACERT	
Emissions	Tier 3/EU Stage IIIA	
Net Power (ISO 9249)	168 kW	225 hp
Bore	110 mm	4.33"
Stroke	127 mm	5.0"
Fuel Capacity	416 L	110 gal
Displacement	7.2 L	442 in^3
Cylinders	6 in-line	
Maximum Torque @ 1,400 rpm	1.03 kN·m	758.2 lbf-ft

Weights

Operating Weight	37 600 kg	82,900 lb
Boom	3665 kg	8,080 lb
Stick (long)	2484 kg	5,464 lb
Stick (short)	2253 kg	4,956 lb
Counterweight	6441 kg	14,200 lb

Hydraulic System

Controls	Electro/hydraulic pilot controls	
Tank Capacity	378.5 L	100 gal
System Capacity	606 L	160 gal

Hydraulic System: Maximum Pressure

Implement Circuit	31 716 kPa	4,600 psi
Travel Circuit	33 095 kPa	4,800 psi
Auxiliary Circuit		
Medium Pressure		
Factory Setting	15 168 kPa	2,200 psi
Maximum Allowable Relief Setting	17 237 kPa	2,500 psi
Swing Circuit	37 921 kPa	5,500 psi

Hydraulic System: Maximum Flow

Implement Circuit	519 L/min	137 gal/min
Auxiliary Circuit		
High Pressure	208 L/min	55 gal/min
Medium Pressure	76 L/min	20 gal/min
Operating Temperature	60-73° C	140-164° F

Swing Mechanism

Swing Speed	8.2 rpm	
Swing Torque	84 kN·m	62,000 lbf-ft
Swing System	Closed loop hydrostatic system with electro-proportional controls	
Maximum Swing Pump Flow	140 L/min	37 gal/min

Transmission

Maximum Travel Speed	20 km/h	12.4 mph
Creeper Speed	5.3 km/h	3.3 mph
Maximum Gradeability	35%	

Service Refill Capabilities

Fuel Tank	416 L	110 gal
Cooling System	36 L	9.5 gal
Engine Crankcase with Filter	28 L	7.4 gal
Final Drive (each)	6.0 L	1.6 gal
Hydraulic Tank	379 L	100 gal
Hydraulic System (including tank)	606 L	160 gal

Outriggers

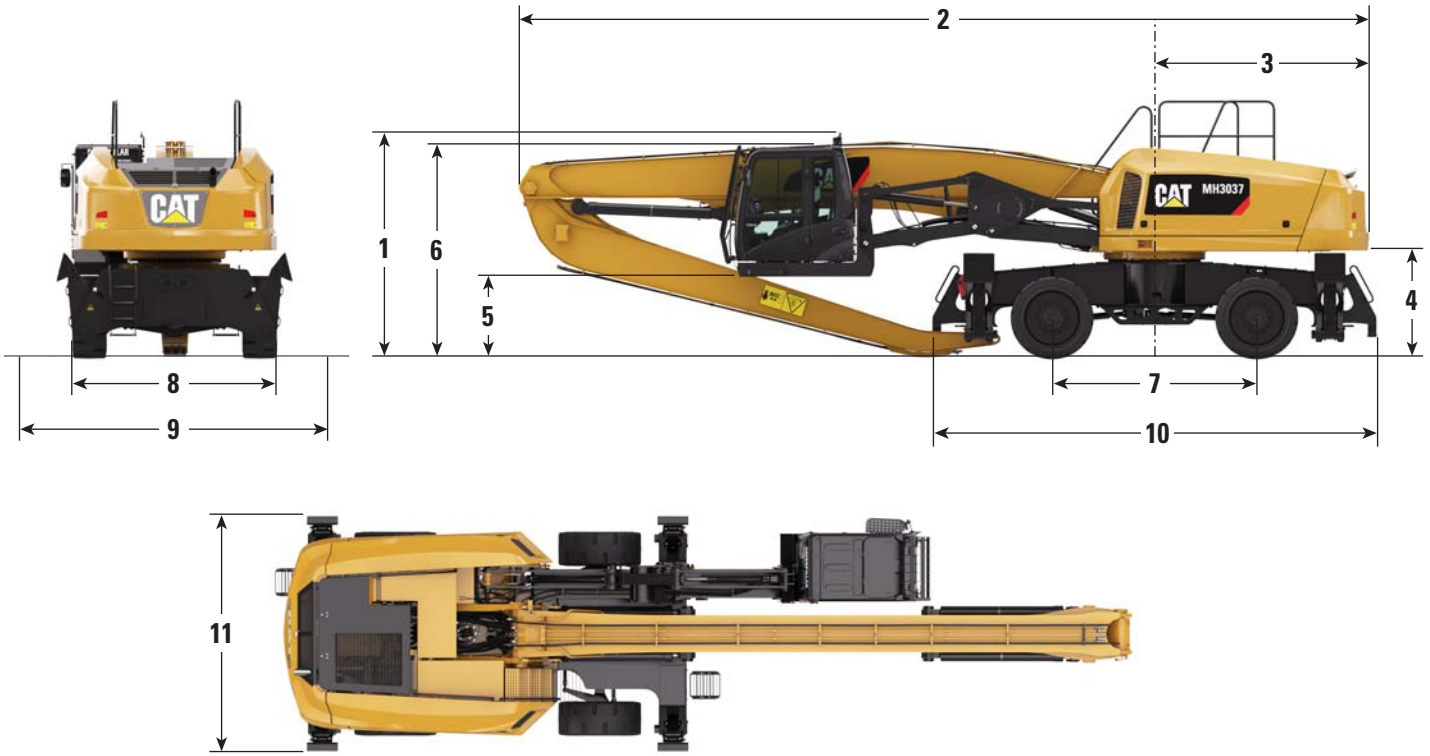
Ground Penetration	140 mm	5.5"

Undercarriage

Ground Clearance at Lowest Point	297 mm	11.7"
Oscillation Axle Angle	±2.5 degrees	
Minimum Turning Radius (inside)	6.4 m	21'0"

Dimensions

All dimensions are approximate.

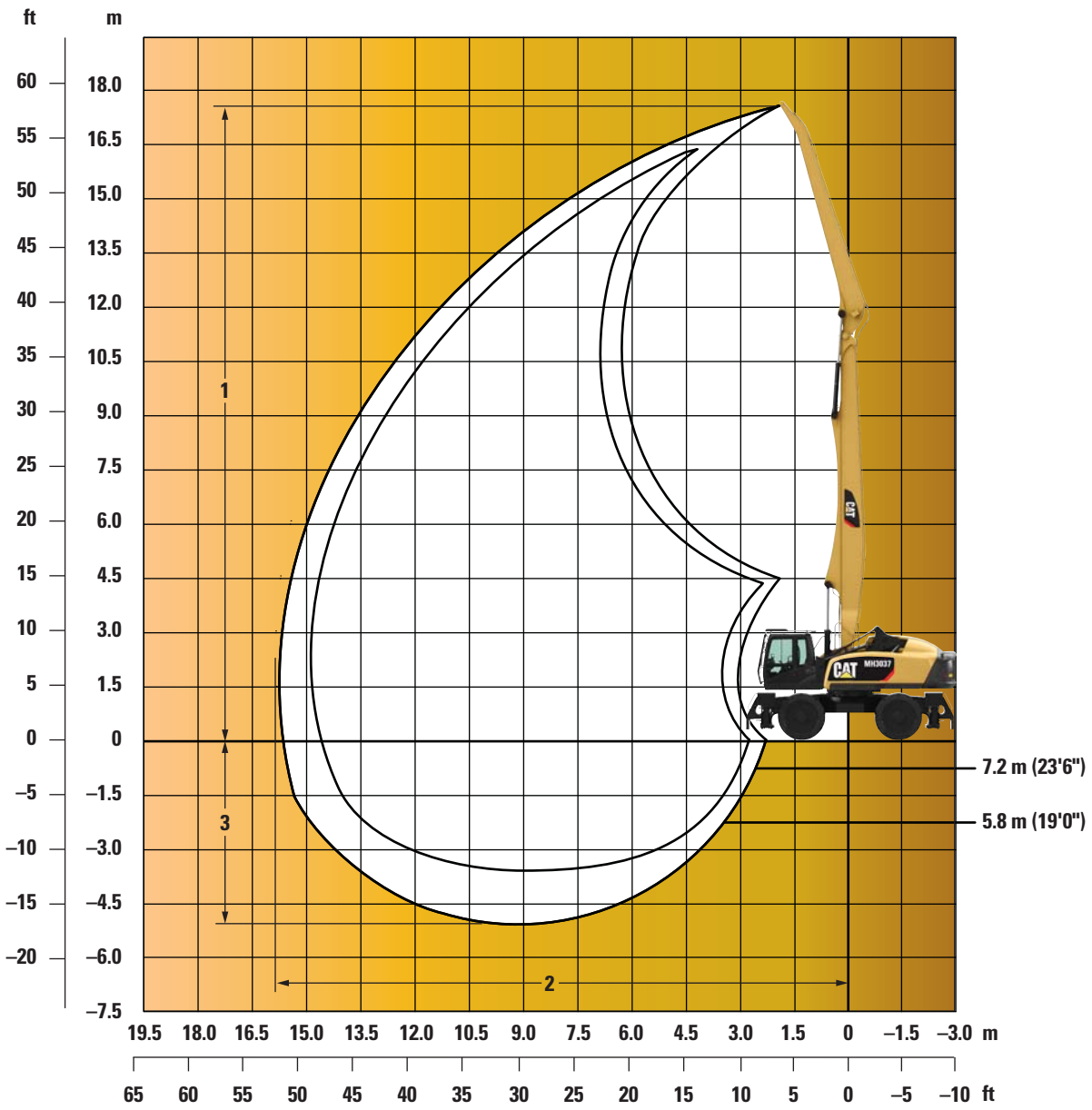


		MH3037	
1	Shipping Height	3334 mm	10'11"
2	Shipping Length	12.6 m	41'2"
3	Tail Swing Radius	3147 mm	10'4"
4	Counterweight Clearance	1578 mm	5'2"
5	Cab Clearance – Lowered to Ground*	242 mm	9.5"
6	Cab Height		
	Transportation	3314 mm	10'10"
	Raised to Top of FOGS Guard	5883 mm	19'2"
7	Wheel Base	2998 mm	9'10"
8	Undercarriage Width	2995 mm	9'10"
9	Stabilizer Width on Ground	5033 mm	16'6"
10	Undercarriage Length	6510 mm	21'4"
11	Shipping Width	3207 mm	10'6"

*Factory set at 242 mm (9.5") – adjustable through the operating system to be lower or higher.

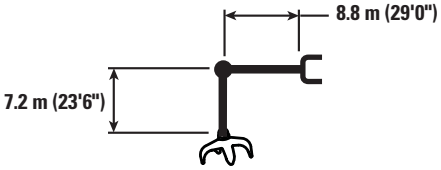
MH3037 Wheel Material Handler Specifications

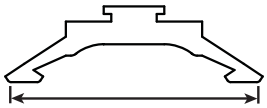
Working Ranges

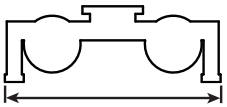


	MH3037			
	Long Front		Short Front	
Boom Length	**8.84 m**	**29'0"**	**8.84 m**	**29'0"**
Stick Length	**7.2 m**	**23'6"**	**5.8 m**	**19'0"**
1 Maximum Height	17.7 m	58'0"	16.4 m	53'4"
2 Maximum Reach	15.9 m	52'0"	14.4 m	47'4"
3 Maximum Depth	4.9 m	16'0"	3.6 m	11'9"

MH3037 Lift Capabilities – Long Front







		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	13.5 m/ 45.0 ft	15.0 m/ 50.0 ft		
												m ft/in
16.5 m **55.0 ft**	kg **lb**			*7900 ***16,010**								
15.0 m **50.0 ft**	kg **lb**				*6810 ***15,060**	*6190 ***11,950**						
13.5 m **45.0 ft**	kg **lb**				*6440 ***14,170**	*5860 ***12,880**	*5430 ***11,980**					
12.0 m **40.0 ft**	kg **lb**					*5710 ***12,510**	*5270 ***11,560**	*4930 ***10,820**				
10.5 m **35.0 ft**	kg **lb**					*5700 ***12,440**	*5230 ***11,440**	*4850 ***10,610**	*4450			
9.0 m **30.0 ft**	kg **lb**				*6440 ***14,020**	*5800 ***12,640**	*5290 ***11,520**	*4860 ***10,600**	*4490 ***9,800**			
7.5 m **25.0 ft**	kg **lb**				*6770 ***14,710**	*6000 ***13,070**	*5410 ***11,780**	*4920 ***10,720**	*4510 ***9,810**	*3940		
6.0 m **20.0 ft**	kg **lb**			*8580 ***18,570**	*7260 ***15,730**	*6310 ***13,690**	*5590 ***12,150**	*5020 ***10,910**	*4540 ***9,870**	*4100 ***8,860**	*3800 ***8,320**	15.46 **50'8"**
4.5 m **15.0 ft**	kg **lb**	*14 030 ***29,080**	*12 540 ***27,010**	*9590 ***20,730**	*7830 ***16,960**	*6650 ***14,420**	*5790 ***12,570**	*5130 ***11,140**	*4590 ***9,950**	*4090 ***8,820**	*3810 ***8,370**	15.73 **51'7"**
3.0 m **10.0 ft**	kg **lb**		*14 620 ***31,530**	*10 590 ***22,900**	*8390 ***18,160**	*6970 ***15,110**	*5980 ***12,970**	*5230 ***11,330**	*4610 ***9,990**	*4050 ***8,710**	*3660 ***8,080**	15.86 **52'0"**
1.5 m **5.0 ft**	kg **lb**		*6990 ***16,600**	*11 360 ***24,580**	*8800 ***19,060**	*7220 ***15,630**	*6110 ***13,240**	*5280 ***11,430**	*4600 ***9,930**	*3950 ***8,470**	*3510 ***7,760**	15.83 **51'11"**
0.0 m **0.0 ft**	kg **lb**	*2150 ***4,890**	*5220 ***12,220**	*11 580 ***25,070**	*9020 ***19,540**	*7310 ***15,820**	*6140 ***13,280**	*5240 ***11,330**	*4500 ***9,690**	*3760 ***7,990**	*3330 ***7,380**	15.67 **51'4"**
–1.5 m **–5.0 ft**	kg **lb**	*3110 ***7,000**	*5380 ***12,200**	*10 530 ***24,380**	*8880 ***19,200**	*7190 ***15,560**	*6010 ***12,990**	*5080 ***10,960**	*4280 ***9,170**	*3400 ***7,060**	*3110 ***6,860**	15.35 **50'4"**
–3.0 m **–10.0 ft**	kg **lb**		*6030 ***13,640**	*10 110 ***22,590**	*8380 ***18,130**	*6880 ***14,740**	*5690 ***12,250**	*4740 ***10,180**	*3870 ***8,190**			
–4.5 m **–15.0 ft**	kg **lb**				*7510 ***16,190**	*6210 ***13,360**	*5100 ***10,920**					

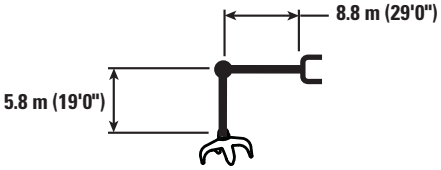
* ISO 10567

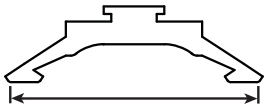
Capacities marked with an asterisk (*) are limited by hydraulic capacity. Lift capacities are in compliance with SAE J2518 "Lift Capacity Calculation Method – Scrap and Material Handlers." Lifting capacities shown do not exceed 75% of minimum tipping loads or 87% of hydraulic capacity. Least stable position 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 37 420 kg (82,500 lb) equipped with a 15.8 m (52'0") boom/stick. Weight does not include the grapple, magnet, or attaching hardware.

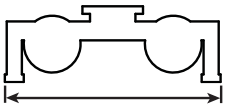
Operator should be fully acquainted with the Operators Manual and the Operating Safety Manual furnished by the manufacturer before operating the machine.

MH3037 Wheel Material Handler Specifications

MH3037 Lift Capabilities – Short Front







		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	13.5 m/ 45.0 ft	15.0 m/ 50.0 ft		
												m ft/in
15.0 m **50.0 ft**	kg **lb**			*8970								
13.5 m **45.0 ft**	kg **lb**			*8340 ***18,340**	*7290	*6610						
12.0 m **40.0 ft**	kg **lb**			***17,660**	*7060 ***15,460**	*6360	*5850					
10.5 m **35.0 ft**	kg **lb**				*7050 ***15,380**	*6310 ***13,770**	*5750 ***12,560**					
9.0 m **30.0 ft**	kg **lb**			*8370 ***18,170**	*7230 ***15,710**	*6400 ***13,930**	*5770 ***12,560**	*5260 ***11,470**				
7.5 m **25.0 ft**	kg **lb**			*8950 ***19,370**	*7570 ***16,420**	*6600 ***14,330**	*5870 ***12,750**	*5290 ***11,500**	*4780			
6.0 m **20.0 ft**	kg **lb**	*16 810 ***35,210**	*12 690 ***27,510**	*9780 ***21,140**	*8040 ***17,410**	*6870 ***14,890**	*6010 ***13,050**	*5350 ***11,610**	*4770 ***10,340**		*4570 ***10,120**	14.0 **45'10"**
4.5 m **15.0 ft**	kg **lb**		*14 660 ***31,550**	*10 730 ***23,180**	*8550 ***18,510**	*7150 ***15,500**	*6170 ***13,370**	*5410 ***11,730**	*4760 ***10,300**		*4400 ***9,740**	14.3 **46'10"**
3.0 m **10.0 ft**	kg **lb**		*5470 ***13,620**	*11 500 ***24,850**	*8980 ***19,430**	*7390 ***16,010**	*6280 ***13,610**	*5440 ***11,780**	*4720 ***10,180**		*4250 ***9,380**	14.4 **47'3"**
1.5 m **5.0 ft**	kg **lb**		*3610 ***8,530**	*11 770 ***25,490**	*9180 ***19,880**	*7500 ***16,240**	*6310 ***13,670**	*5400 ***11,670**	*4600 ***9,880**		*4060 ***8,990**	14.4 **47'2"**
0.0 m **0.0 ft**	kg **lb**		*4130 ***9,500**	*9700 ***22,660**	*9060 ***19,640**	*7410 ***16,040**	*6200 ***13,410**	*5240 ***11,300**	*4350 ***9,280**		*3850 ***8,530**	14.2 **46'6"**
–1.5 m **–5.0 ft**	kg **lb**			*9550 ***22,000**	*8580 ***18,600**	*7070 ***15,290**	*5890 ***12,710**	*4900 ***10,520**	*3880			
–3.0 m **–10.0 ft**	kg **lb**				*7720 ***16,700**	*6420 ***13,860**	*5320 ***11,430**					

* 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 37 420 kg (82,500 lb) equipped with a 14.4 m (47'3") 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.

Standard Equipment

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

ELECTRICAL

- 24V DC
- Two 12V batteries
- Halogen cab and stick mounted boom lights
- Engine and hydraulic compartments service lights
- Sealed wiring enclosures

OPERATOR ENVIRONMENT

- Ground access cab
- Tempered glass windows
- Laminated glass front windshield
- Removable lower windshield
- Sliding upper door window
- Suspension seat with adjustable arm rest
- Retractable 76 mm (3") seat belt (cloth)
- Skylight with sun shade
- Upper windshield wiper and washers
- Positive filtered ventilation
- Bi-level air conditioner, heater and defroster
- Instrument panel and gauges
- Interior lighting
- Coat hook
- LCD monitor
  - Full graphic color display with language display capability
  - Filter and fluid change notifications
  - Working hour information
  - Machine condition monitoring
  - Cat Product Link

POWER TRAIN

- 168 kW (225 hp) Cat C7 ACERT diesel engine meets Tier 3 and EU Stage IIIA emission requirements
- Variable pitch auto reversing fan
- Precleaner plus two-stage air filter

UNDERCARRIAGE

- Four wheel drive with two speed transfer case and limited slip differential on both front and rear axles
- Oscillating rear axle
- Two mode shift on the fly
  - Standard and creeper speeds
- Four wheel dynamic friction hydraulic braking plus park brake
- One button operation for all outriggers plus individual controls
- Guarded outrigger cylinders with load holding valves

OTHER STANDARD EQUIPMENT

- Upper auto-lube and manual centralized lower lubrication
- Grease-less cab riser linkage bearings
- Operating system
- Rearview camera
- Various tire options
- Cat Product Link (PL522)
- 8.8 m (29'0") material handling boom

HYDRAULIC SYSTEMS

- Load sensing variable displacement hydraulics with proportional electro-hydraulic controlled, pre-compensated valves and flow sharing
- 519 L/min (137 gal/min) main pump
- Dedicated closed loop hydrostatic swing system with electro-proportional controls
- 140 L/min (37 gal/min) swing pump at 37 921 kPa (5,500 psi) with large capacity swing motor and swing drive gearbox
- 1321 mm (52") ring gear
- Induction hardened Chrome Plated cylinder rods with electronic cushioning
  - Boom, stick and cab lift cylinders; snubbing cushions
  - Outrigger cylinders
- Load holding valves on cylinders for main and secondary booms
- Load holding valves on cylinders for outriggers
- Load holding valves on cylinders for cab riser
- Hydraulic warm-up valve integrated into the lower control valve

FACTORY INSTALLED OPTIONAL EQUIPMENT

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

- 20 kW solid state generator
- Hydraulic tank heater
- Transfer case guard
- Tow hitch
- LED stick lights
- LED cab lights
- Bolt-on FOGS
- Bio hydraulic oil
- 5.8 m (19'0") material handling drop nose stick
- 7.2 m (23'6") material handling drop nose stick

FIELD INSTALLED OPTIONAL EQUIPMENT

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

- Cab reflective film
- Auxiliary keypad
- Software and decals for joystick control reconfiguration
- Impact resistant windshield

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

AEHQ7221-01 (04-2014)
Replaces AEHQ7221
(North America)

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