FSA20-EQU18.0, ITEM# 200 MATERIAL HANDLER: Rubber Tire Material Handler MH3022 SHERIFF'S CONTRACT WORKSHEET

501-3128	MH3022 06C WHEEL MTL HANDLER
583-6608	ENGINE, EU
503-3879	1PC, 10'10 STK, IND
452-9679	BLCV, MH
440-3574	SPEED 12.4 MPH
442-1598	UC MH
474-7226	TIRES,SOLID RUB.10.00-20 DUAL
510-6668	CONTROL, MPF MH
453-5090	NO PUMP, REFUELING
491-7073	CAB, 70/30
374-5098	WIPER, 70/30
373-6030	SEAT COMFORT W/2" SEAT BELT
261-3608	NO PEDAL
497-1005	JOYSTICK, 1-SLIDER
441-5449	CONTROL, MH, IND STK
459-6004	PRODUCT LINK, CELLULAR PL641
491-8396	LIGHTS, LED
491-1065	MIRROR, VA/MH
506-6557	COOLING SYSTEM, FINE MESH
509-7093	NO GENERATOR
433-5666	COUNTERWEIGHT, 9258 LBS
442-0428	HYDRAULIC OIL, MINERAL
490-6951	DECALS, NORTH AMERICA (ANSI)MH
237-0065	ALARM, BACK-UP HCR
422-9762	BEACON, ROTATING, REMOVABLE
	2.5LB CAB MOUNTED ABC TYPE FIRE EXTINGUISHER

MH3022 HYDRAULIC WHEEL EXCAVATOR GRENOBLE, FRANCE

Ship Weight lbs LIST PRICE AT DEALER

Standard Equipment:

POWERTRAIN

Engine:

Cat C7.1, EPA/ARB tier 4 final and EU stage IV compliant
Altitude capability: 3000M/9842 ft
Automatic engine speed control incl. one touch low idle and Engine Idle shutdown functionality Automatic starting aid
Power mode selector

UNDERCARRIAGE

Engine air pre-cleaner

Four wheel drive
Heavy-duty axles with advanced disc
brake system and travel motor with
adjustable braking force
Hydrostatic transmission, two speed
Full hydraulic steering with emergency
capability
Oscillating front axle, lockable, with
remote greasing point
Automatic lock mode for oscillating
front axle & service brake
Steps including tool boxes, left & right
Creeper speed

HYDRAULICS

Cat XT-6 ES hoses Heavy lift mode Separate swing pump Load sensing hydraulic system Adjustable hydraulic sensitivity

ELECTRICAL

Alternator, 115 ampere Roading lights (two front, two rear) Main shut-off switch Signal/warning horn Two Caterpillar maintenance free batteries

OPERATOR ENVIRONMENT

Reinforced cab structure compliant with 2006/42/EC and tested according ISO 12117-2:2008
Air conditioner heater & defroster Adjustable armrests 24 Volt lighter
Beverage cup/can holder
Bolt-on FOGS capability
Bottle holder
Bottom mounted, intermittent, parallel wiper and washer
Coat hook

Floor mat, washable, with storage compartment Full graphic and full color display Interior lighting with door switch Joysticks, pilot operated Laminated front windshield Left side console, tiltable, with lock-out for all controls Literature compartment behind seat Literature holder in right hand cab panel Mobile phone holder FM radio incl. speakers Parking brake Sealed cab with positive filtered ventilation Power supply, 12V-10A Sliding door windows Steering column, adjustable angle & height Storage compartment suitable for a lunch box Sunshade for windshield and skylight Cruise control system Pin code type engine start prevention Hydraulic cab riser RHS and rear view camera (incl.lights) displayed on additional cab monitor.

OTHER STANDARD EQUIPMENT

Automatic Lubrication System for front linkage & swing bearing. BLCV including overload warning device SLCV VA booms include FLCV Automatic swing brake SOS quick sampling valves for engine

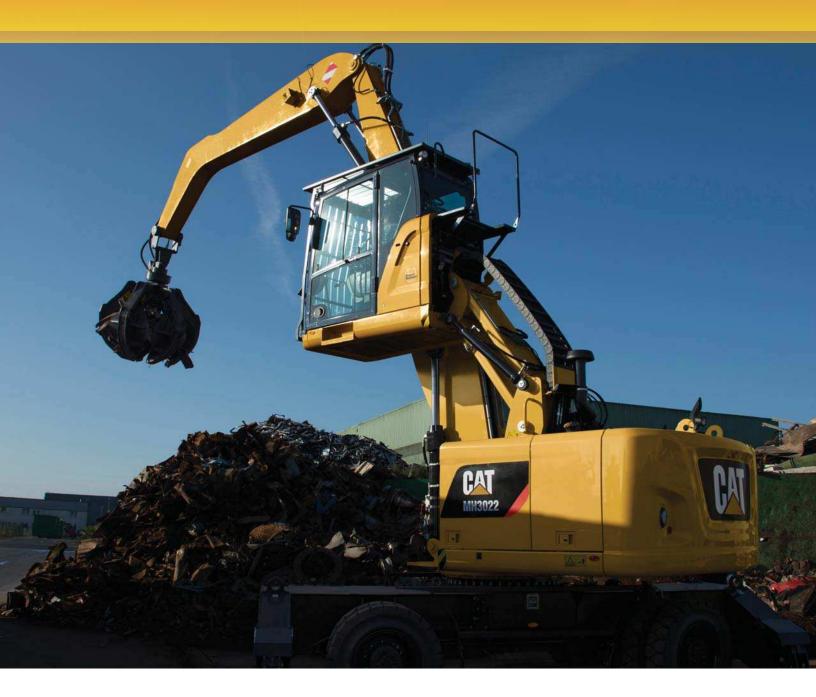
Supersedes 22MAY2020 Caterpillar: Confidential Green

MH3022

Wheel Material Handler

2018





Engine		
Engine Model	Cat® C7.1 A	CERT™
Emissions	U.S. EPA Tie	er 4 Final
Power (Maximum)		
ISO 9249 at 1,550 rpm	126 kW	169 hp
ISO 9249 at 1,550 rpm (metric)		171 hp
ISO 14396 at 1,550 rpm (gross)	129.4 kW	174 hp
ISO 14396 at 1.550 rpm (gross) (metric)		176 hp

Weights		
Operating Weight with Work Tool	20 865 kg-	46,000-
	24 600 kg	54,230 lb
Working Ranges (MH boom, stick 4900	mm [16'1"])	
Maximum Reach (stick pin)	11 005 mm	36'1"
Maximum Height (stick pin)	12 065 mm	39'7"
Drive		
Maximum Travel Speed	25 km/h	15.5 mph

Introduction

We know that when it comes to material handling equipment, your success depends on high productivity and dependable performance. The MH3022 anchors the smaller end of the new Cat wheel material handlers. It is the agile solution in all space-restricted areas, while offering good reach; the perfect fit for all indoor sorting and waste applications. Our wheel material handlers are designed to cope with harsh environments of industrial, scrap, and waste recycling operations, which call for safe and reliable products with low operating costs.

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Our wheel material handlers are here to help you take on the wide variety of challenges you face every day, more easily and at a lower cost.

Commitment from the Ground Up.



SustainabilityGenerations Ahead in Every Way

Fuel Efficiency and Reduced Exhaust Emissions

The engine meets Tier 4 Final emission standards, is powerful and efficient, with an optimized 10% fuel consumption improvement versus the previous series and no impact on your productivity. This means less resource consumption and fewer CO_2 emissions.

Transparent Technologies and Longer Service Intervals

- The Eco Mode, Auto Engine Speed Control and Engine Idle Shutdown help further reduce your overall fuel consumption.
- Product Link[™] allows remote monitoring of the machine and helps improve overall efficiency.
- You Cat dealer can help extend service intervals, meaning fewer fluids and disposals, all adding up to lower costs.

Biodiesel and Biodegradable Hydraulic Oil

- The MH3022 has the flexibility to run on either ultra-low-sulfur diesel fuel (ULSD with 15 ppm of sulfur or less) or up to B20 biodiesel blended with ULSD.
- Cat BIO HYDO™ Advanced HEES™ reduces the impact on the environment.

Cat Certified Used

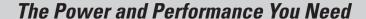
This program is a key element in the range of solutions offered by Caterpillar and Cat dealers to help customers achieve growth at the lowest cost while eliminating waste. Used equipment is inspected, guaranteed and ready for work and customers will benefit from a Caterpillar warranty.

NEW! Blue Angel Certification

This environmental award – supported by the German Federal Environmental Agency and the Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety – recognizes products that protect both people and the environment by reducing noise and emissions.

Engine

Power, Reliability, and Fuel Economy



Constant Power Strategy

Provides a quick response to changing loads, while delivering the same amount of power regardless of operating conditions.

A Transparent Emission Solution That Works.

The Cat C7.1 ACERT engine meets Tier 4 Final emission standards, and it does so without interrupting your job process. It is designed to be:

- Transparent: no operator intervention
- Durable: fit for life Diesel Particulate Filter
- Efficient: no work interruption, even in case of extended idling time
- Simple: minimum maintenance. Longitudinal engine installation, which further simplifies maintenance

Biodiesel Not a Problem

The engine can run on up to B20 biodiesel fuel that meets ASTM 6751 standards – all to give you more potential fuel-saving flexibility.

Proven Technology

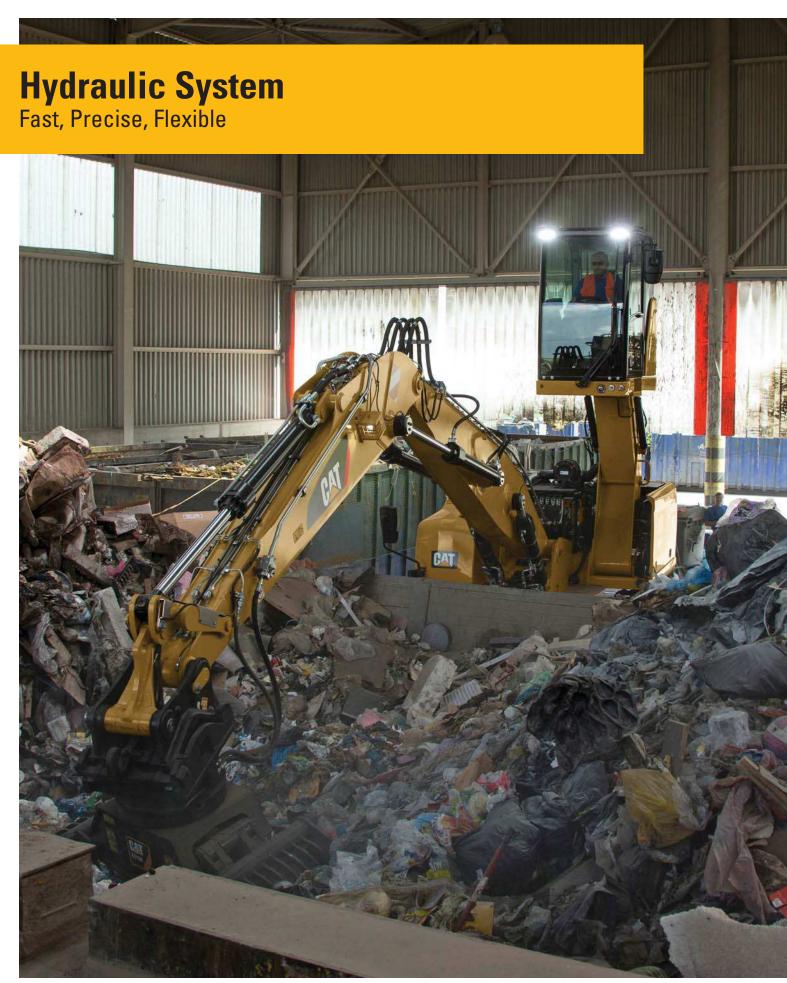
To assure that our technology will meet your expectations for reliable trouble-free service, we subjected these engines and technologies to extensive operating hours of test and validation.





Built-in Fuel Savers That Add Up

- Automatic Engine Speed Control: lowers engine speed when it is not needed.
- Engine Idle Shutdown: turns the engine off when it's been idling for more than a pre-set amount of time.
- On-Demand Cooling System: variable speed and on-demand fan.
- Enhanced Eco Mode: reduces engine speed while delivering the same power.
- Automatic Shift to Travel Mode when you start driving.
- Optimized Travel Mode: travel mode rpm levels are set automatically on-demand only to further reduce fuel consumption.



When it comes to moving material quickly, you need efficient hydraulics – the type the MH Series can deliver.

Efficient Design, Smart and Fast

- Simple Design The hydraulic valve compartment and routings offer a simple and clean design to help ensure durability.
- Smart Main Hydraulics The system allows reducing the load on the engine when not needed, which translates into lower fuel consumption.
- Dedicated Swing Pump A closed hydraulic circuit is dedicated to the swing only. Having two separate pumps, one for the swing and the second for the other functions allows faster and smoother combined movements.

Control Like No Other

- Electronic Pump Control Controllability is one of the main attributes of the MH3022, and one of the key contributors to this is the Electronic Pump Control (EPC) that's designed to improve response time and precision. It puts flow exactly where you need it, when you need it, which means a much smoother operation and greater efficiency.
- Adjustable Hydraulic Sensitivity Allows you to adjust the aggressiveness of the machine according to the application.
- Stick Regeneration Circuit Increases efficiency and helps enhance controllability for higher productivity of straight sticks with linkage.









Well Balanced Cooling Package

The hydraulic oil cooler is mounted side-by-side with the engine radiator and the air-to-air aftercooler (ATAAC). Located separately from the engine and featuring a well-balanced sizing, the cooling package offers unprecedented up-times even in difficult environments.

Structure – Elevated Cab and Frame

Strength, Flexibility and Mobility







High Visibility – 2400 mm (7'10") Elevated Cab

The hydraulic cab riser is designed to be:

- Stable Wide lift arms, deep box-sectioned design, strong top and bottom links and retractable hydraulic cylinders used to raise the cab for greater stability.
- Fast Two heavy-duty hydraulic cylinders provide quick and controlled up and down travel.
- Comfortable The parallelogram design of the linkage allows the cab to remain level at all ranges of motion.
 Cab movement is also slowed as it reaches the end of the riser stroke, with no sudden start/stop effect.
- Safe The cab can be lowered using either a lever inside the cab or one on the frame at ground level in the event of a hydraulic malfunction.

Undercarriage Options

Effective hydraulic line routing, transmission protection and heavy-duty axles make the Cat undercarriages perfect for material handler applications. Two different undercarriages are available to provide the stability you need for your applications:

- The 2.55 m (8'4") Material Handling undercarriage is specifically designed for limited space applications – Thanks to smaller undercarriage width and length, and to its symmetrical design, this undercarriage enhances maneuverability and flexibility in tight areas.
- NEW! Material Handling with Dozer Blade An optional expansion to the Material Handling Undercarriage includes an additional dozer blade mounted ahead of the front stabilizers to be used to push material commonly encountered in waste and millyard applications.

Heavy-Duty Axles

The front axle offers wide oscillating and steering angles. The transmission is mounted directly on the rear axle for protection and optimum ground clearance. The drive shaft offers long service intervals.

Advanced Disc Brake System

The disc brake system acts directly on the hub instead of the drive shaft to avoid planetary gear backlash. This minimizes the rocking effect associated with working free on wheels.

Driveline Concept

The driveline design effectively utilizes engine torque and power to provide a comfortable ride with improved smoothness.

Travel mode rpm levels are set automatically and "on-demand only" to further reduce fuel consumption.













SmartBoom

Allow Your Operator to Fully Concentrate on Production

The unique Cat SmartBoom significantly enhances operator comfort and job efficiency by reducing stress and vibrations transmitted to the machine. Loading is more productive and more fuel efficient as the return cycle is reduced while the boom down function does not require pump flow.

Front Linkage

No Compromise on Durability

You know that a material handler works only as good as its front linkage is able to handle the job. The MH3022's booms and sticks are purpose built for the loads encountered in material handling applications.

MH Booms

MH booms include high pressure hydraulic lines for opening and closing functionality and medium pressure lines for implement rotation. A short MH boom is available to match indoor applications while retaining the same performance and lifting capabilities.

MH Sticks

MH sticks are equipped with high and medium pressure auxiliary lines. The 4900 mm (16'1") Drop Nose Stick offers the reaching and lifting capabilities required for typical MH applications.

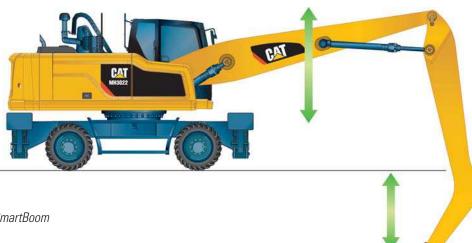
NEW! A new 4500 mm (14'9") Drop Nose Stick allows machines to move to different job sites with a transport position height below the critical 4 m (13') without stick removal. This translates into significant time and costs savings.

The 4200 mm (13'9") Straight Stick is the best solution when additional work tool functionality is needed.

Special Applications

Our Material Handlers offer the ability to combine the hydraulic cab riser with a traditional excavator front linkage. This combination has been proven in transfer station, mining, and millyard applications.

Digging sticks as well as industrial sticks are available in combination with a variable adjustable (VA) or one-piece boom.



Smart Features

Easier than Ever

Joystick Steering (Optional)

Keep both hands on your joysticks even when you need to reposition the machine while simultaneously moving the implements.

Swing and Auto Travel Lock

No need for the operator to bend to engage the swing lock pin.

- · Just press a button,
- Align the upper to the lower frame,
- Enjoy the ride: a green indicator confirms the swing and the implements have been automatically locked.
- The swing lock can be applied independently from the implements lock at low speed (below 5 km/h/3.1 mph)

Integrated Pin Code

No need to buy an optional security system to protect your equipment against theft.

- The pin code is integrated into the monitor (standard)
- Entering the right code allows the engine to start

The Machine Security System (MSS – optional) adds even more protection when needed.

Cruise Control

No need to press the pedal all the time.

- Choose the very speed you wish
- Press the quick access button on the monitor
- · Enjoy the ride





Load and Go Auto Axle Lock

Presses the Pedal for You, Reducing the Number of Actions You Need to Do

The machine automatically detects when the service brake and axle need to be locked (like when working), or unlocked (roading), hence removing the need for the operator to systematically press the pedal. Brake and axle are released automatically by pressing the travel pedal again.

Premium Comfort

Keeps Operators Productive All Shift Long



Designed for the operator, our cabs are unique.

Ergonomic Layout

- Frequently used switches are centralized, kept to the minimum and ideally located close to the joysticks.
- Storage compartments are useful ... when well designed. Several areas provide sufficient room to store a hard hat, a drink, phone, or keys.

Comfortable Seat Options

Our seats provide all the comfort needed for a long day of work, including FULL adjustment. All seats are heated and air suspended. Automatic weight adjustment and ventilated seats are available.

Safety Is Not Optional

TOPS cabs, seat belt alarm, safety lever, sideview camera ... among others.

Details That Make the Difference

Have a look at the cab; you will see it is through details that we improve pleasure of operating.

Smart Controls to Reduce Fatigue

- Features like SmartBoom or joystick steering will be precious to increase your productivity.
- New technologies that work transparently like the swing and auto travel lock or the automatic brake and axle lock, reduce the number of tasks you need to do.

Plug, Charge and Play Your Devices

- The 12V 10A power supply socket is conveniently located for charging your laptop, or a tablet.
- A CD/MP3 radio with speakers and USB port is available.







Simplicity and Functionality

For Ease of Operation

A Cab Just for You - Fully Adjustable

- · Seat armrests, in height and angle
- Steering column adjustment, not only tilting fore/aft but also in height
- Hydraulic sensitivity of the machine to make it more or less aggressive
- Joystick and left pedal controls assignments: can be set up as desired and per tool
- Optional advanced joystick offering more controls (two sliders, five buttons each)
- Automatic air conditioning
- Optional heated mirrors are now also electrically adjustable from the cab



Incredibly Low Sound Levels, Less Fatigue

Increased cab pressure, preventing from dust entry, combined with the cab design contributes to reducing sound.

Outstanding Visibility: See the difference!

- All glass areas have been drastically increased
- Standard LED working lights and halogen front roading lights
- Standard LED dome light
- Standard rearview AND sideview wide angle cameras
- Wide angle mirrors for a better visibility even down to the ground
- Parallel intermittent (four speeds) wipers covering the whole windshield

Standard LED Lights for BOTH Cameras to See What's Going on Around, Day or Night

The rear camera is integrated into the counterweight for enhanced protection.

Split-Screen View of BOTH Cameras on the Same Monitor

The views from both cameras are displayed side by side on the additional wide color monitor for better visibility at first glance.

Large Color Machine Monitor

Easy to read and in local language, the high resolution LCD monitor will keep you aware of any important information. "Quick Access" buttons allow a quick selection of favorite functions. The tool select function lets you preset up to ten different hydraulic attachments for quick tool changes.

Serviceability

When Uptime Counts

Convenient Access Built In

You can reach routine maintenance items like fuel and engine oil filters and fluid taps at ground level while fuel and DEF tank accessible from the safety of the slip-resistant new service foldable step. Compartments feature wide composite service doors, designed to be more resistant to shocks, which all include gas struts to facilitate the opening.

A Smart Design for Any Temperature

The side-by-side coolers and axial fan design allows greater cooling performance. The system is completely separated from the engine compartment to reduce noise and heat, and all radiators are gathered in the same compartment while featuring easy-to-clean cores with a tilting device that requires no tool to unlock.

- The optional Cooling Protection Package includes a fine mesh for enhanced radiator protection and an engine air pre-cleaner.
- The optional Waste Handling Package adds a reversing fan rotation function with adjustable intervals and a vibrating grill on the cooling hood.
 This vibration together with the reversed airflow direction will shake accumulated particles off the mesh.

A Fresh Idea

Ventilation inside the cab allows outside air to enter through a fresh air filter. The filter is located on the side of the cab to make it easy to reach, and it is protected by a lockable door that can be opened with the ignition key.

Lube and Fuel Options

An automatic lubrication system is a time-saving standard feature for greasing the whole uppercarriage. Greasing points for the undercarriage are kept to a minimum and grouped. The drive shaft extends greasing intervals from 500 hours to 1,000 hours and allows simultaneous greasing with the lower axle bearing. An electric refueling pump is also available. The hose is stored in a dedicated tray, for more cleanliness. Add in the new electric lift pump removing the need to prime the system manually, the standard fuel and water separator and you get a machine that does the fastidious maintenance work for you.

Keep it simple.









Integrated Technologies

It Pays to Know

Cat Connect makes smart use of technology and services to improve your job site efficiency. Using the data from technology-equipped machines, you'll get more information and insight into your equipment and operations than ever before.



Equipment Management – increase uptime and reduce operating costs.



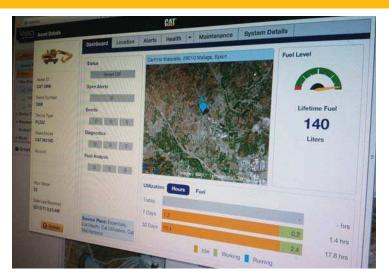
Productivity – monitor production and manage job site efficiency.



Safety – enhance job site awareness to keep your people and equipment safe.

Link

Link technologies provide wireless capability to machines to enable two-way transfer of information.



Manage Your Machine Remotely

Cat Product Link is a system that is deeply integrated into the machine monitoring system to take the guesswork out of managing your equipment. The system tracks location, hours, fuel usage, productivity, idle time, and diagnostic codes and shares it with you through VisionLink® to help you maximize efficiency, improve productivity, and lower operating costs.

Complete Customer Care

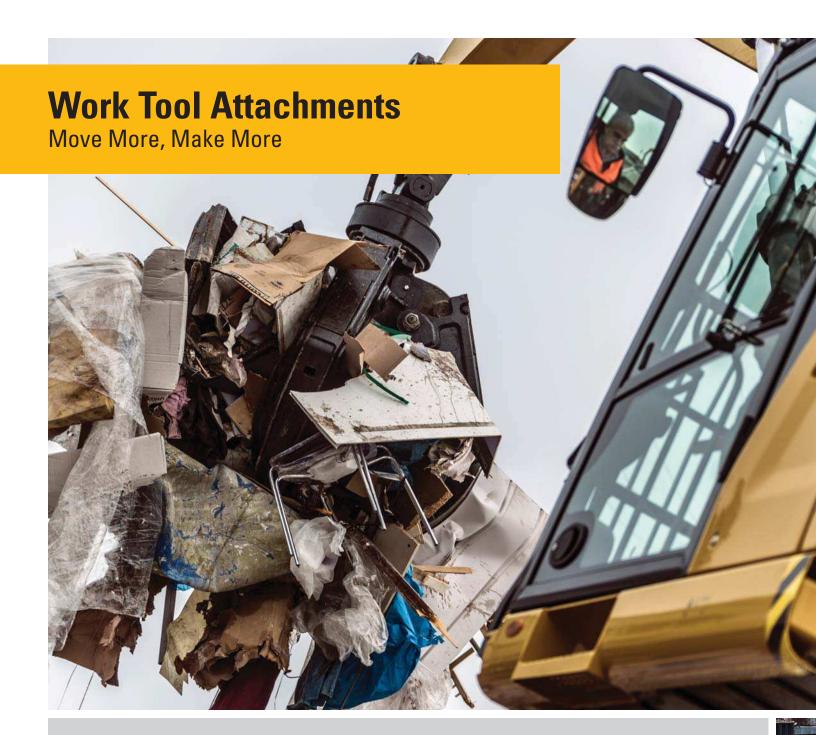
Your Cat Dealer Will Support You Like No Other



Support You Can Count On

From helping you to choose the right machine to knowledgeable on-going support, Cat dealers provide the best-in-sales and services.

- Best long-term investment with financing options and services
- Productive operation with training programs
- Preventive maintenance and guaranteed maintenance contracts
- Uptime, with best-in-class parts availability
- Repair, rebuild, or replace? Your dealer can help evaluate the best option.



Optional 15 kW (20.1 hp) Cat Generator with Solid State Controller

If your work tool or application needs additional power for operation, the MH3022 can come equipped with an optional 15 kW (20.1 hp) solid state generator. Experience enhanced sorting ability through the proprietary solid state generator control. The genset is capable of producing enough power to operate up to a 1.4 m (4'7") diameter magnet. The optional solid state genset would be placed in the upper frame for ease of maintenance without obstructing other machine components.

The operator friendly material sorting control enables the machine operator to turn the magnet current on and off at quick intervals without initiating the actual "drop" or "reverse current" cycle of the magnet which completely and quickly cleans the material off of the magnet during normal production handling.

This proprietary generator system is designed, sold and serviced by Caterpillar and Cat dealers worldwide.



Attachment Solutions for Industrial and Recycling Applications

When productivity, reliability and stability are important, Cat attachments are the perfect solution.

Productive and Perfectly Matched

Loading and unloading is foundational to your productivity. Grapples are designed for maximum penetration into the pile. The full power of your machine is utilized to provide fast open/close times and powerful closing force. Full, 360° rotation systems allow precise placement. Together, a MH3022 and Cat grapple allow you to move volumes with minimal time and effort.

Built for Severe Material

Cat grapples are built to take on the material you move. Hydraulic components are protected from damage, yet easily accessed for routine maintenance. Areas that dig and penetrate are made of high quality, wear resistant material. Cat grapples last for a positive impact to your bottom line.

Orange Peel Grapples

The perfect solution for scrap yards, recycling plants and transfer stations. These grapples are available with 4 or 5 tines, in capacities from 600 to 1000 L (0.79 to 1.05 yd³). Several shell choices allow further customization of your grapple to the specific material you work with.

NEW! Grapples can further reduce fuel consumption. They feature reduced weight and improved cycle times. Castings in place of welded structures in high stress areas increase the durability of your equipment.

Digging Grapples

Cat Digging grapples are designed to suit MH machines for digging applications where good penetration is required.

Waste Handling Grapples

The dedicated waste handling grapple has been specifically designed to offer high volume for maximum loads and proven fuel consumption.







Get the Most from Your Machine

You can easily expand all the possibilities the MH3022 offers by utilizing a straight stick linkage and combining it with any of the variety of Cat attachments for excavators. In this case, a quick coupler will bring the ability to quickly change attachments.

Ten hydraulic pump flow and pressure settings can be preset within the monitor, eliminating the need to adjust the hydraulics each time a tool is changed.

Safety

Your Safety Is NOT Optional

Embedded Features

Smart embedded devices help enforce safe behavior:

- Safety seat belt and warning indicators (monitor)
- Automatic swing lock
- Automatic brake and axle lock
- Safety lever, preventing exit when the implements are not locked out
- Secondary shut off switch and battery disconnect switch
- Travel alarm
- Lowering check valves
- Quick coupler control switch, ISO 13031 compliant



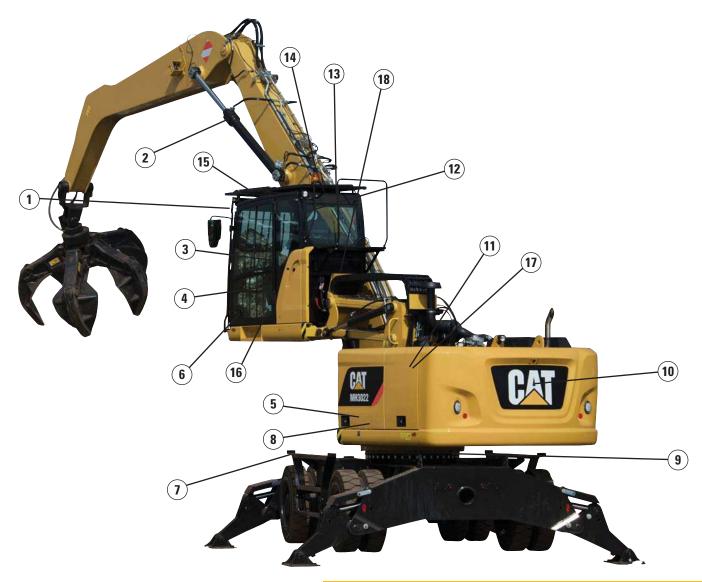




Cab Ingress

We bring a solution to allow you to safely climb into the cab:

- Three long access steps, aligned with the cab entry
- Additional step integrated into the skirt, directly below the cab door
- · Anti-skid plates on all walkways and steps reducing slipping hazards
- Tiltable console to make sure the way in and out is free of obstacles
- NEW! Direct access to the cab when it is not aligned with the chassis through optional steps on the front and rear of the undercarriage.



- 1) Laminated windshield and skylight window
- 2) Lowering check valves
- 3) Safety seat belt indicator
- 4) Safety lever
- 5) Emergency shut-off switch
- 6) Automatic brake and axle lock
- 7) Punched, anti-slippery walking surfaces
- 8) Battery disconnect switch
- 9) Swing and implement electronic lock
- 10) Adjustable travel alarm
- 11) All doors equipped with gas strut cylinders
- 12) Emergency hammer and exit
- 13) Sound proofing
- 14) Beacon available
- 15) TOPS cab and top/front guards compatibility
- 16) Safety lever to lower the cab, either from the ground or directly from the cab
- 17) Foldable service platform
- 18) Advanced Cab Filtration System (optional)

Safety Options for Specific Applications

- Impact Resistant One-Piece Windshield and skylight, 10 mm (0.4 in) thick, fulfills EN356 P5A standards.
- High Impact Resistant fixed Windshield (two-parts) and skylight, 26 mm (1 in) thick, fulfills EN356 P8B standards.
- Advanced Cab Filtration System A cab filtration package reduces dust entry and air contamination. It includes:
 - an integrated air pre-cleaner, which also extends filters life
- a fresh air filtration system with H13 and ABEK1 Hg filters against odor and gas
- a recirculation filtration system, with a H13 filter

Engine		
Engine Model	Cat C7.1 ACERT (1)	
Ratings	1,550 rpm	
Engine Gross Power (Maximum)		
ISO 14396	129.4 kW	174 hp
ISO 14396 (metric)		176 hp
Net Power (Rated) (2)		
ISO 9249/SAE J1349	126 kW	169 hp
ISO 9249/SAE J1349 (metric)		171 hp
80/1269/EEC	126 kW	169 hp
Net Power (Maximum)		
ISO 9249/SAE J1349	126 kW	169 hp
ISO 9249/SAE J1349 (metric)		171 hp
80/1269/EEC	126 kW	169 hp
Bore	105 mm	4.1 in
Stroke	135 mm	5.3 in
Displacement	7.01 L	427.8 in ³
Maximum Torque at 1,400 rpm	830 N·m	612.2 lbf-ft
Number of Cylinders	6	

⁽¹⁾ Meets Tier 4 Final emission standards.

Transmission		
Forward/Reverse		
1st Gear	10.0 km/h	6.2 mph
2nd Gear	25.0 km/h	15.5 mph
Creeper Speed		
1st Gear	3.0 km/h	1.9 mph
2nd Gear	10.0 km/h	6.2 mph
Drawbar Pull	125 kN	28,101 lbf
Maximum Gradeability at 23 500 kg (51,810 lb)	65%	

Maximum Swing Speed	8.1 rpm	
Maximum Swing Torque	54 kN·m	39,960 lbf-ft
Undercarriage		
Axle Ground Clearance	325 mm	12.8 in
Maximum Steering Angle	35.0°	
Oscillation Axle Angle	±5.0°	
Minimum Turning Radius*		
Outside of Tire	6800 mm	22.3 ft
End of VA Boom	7600 mm	28.9 ft
End of One-Piece Boom	9000 mm	24.9 ft
End of MH Boom (with 4.9 m/16'1" drop-nose stick)	8800 mm	29.5 ft

^{*}Boom and stick in travel position.

Swing Mechanism

Service Refill Capacities		
Fuel Tank (total capacity)	330 L	87.2 gal
Diesel Exhaust Fluid Tank	34.5 L	9.1 gal
Cooling System	46.9 L	12.4 gal
Engine Crankcase	18.5 L	4.9 gal
Rear Axle Housing (differential)	14 L	3.7 gal
Front Steering Axle (differential)	10.5 L	2.8 gal
Final Drive	2.5 L	0.7 gal
Powershift Transmission	2.5 L	0.7 gal

⁽²⁾ Rated speed 1,550 rpm. Constant power from 1,500-1,550 rpm.

[•] Net power advertised is the power available at the flywheel when engine is equipped with air cleaner, CEM exhaust gas aftertreatment, alternator, and cooling fan running at intermediate speed.

[•] No deratings required up to 3000 m (9,842 ft) altitude. Automatic derating occurs after 3000 m (9,842 ft).

Weights		
Operating Weights*	21 815 kg- 22 930 kg	48,094 lb- 50,552 lb
Long MH Boom (6.4 m/21'0")		
MH 2.55 m (8'4") Undercarriage, Straight Stick	22 930 kg	50,552 lb
MH 2.55 m (8'4") Undercarriage, 4.5 m (14'9") Drop Nose Stick	22 500 kg	49,604 lb
MH 2.55 m (8'4") Undercarriage, 4.9 m (16'1") Drop Nose Stick	22 525 kg	49,659 lb
Short MH Boom (5.35 m/17'7")		
MH 2.55 m (8'4") Undercarriage, Straight Stick	22 670 kg	49,979 lb
MH 2.55 m (8'4") Undercarriage, 4.5 m (14'9") Drop Nose Stick	22 240 kg	49,031 lb
MH 2.55 m (8'4") Undercarriage, 4.9 m (16'1") Drop Nose Stick	22 265 kg	49,086 lb
One-Piece Boom		
MH 2.55 m (8'4") Undercarriage, 3.3 m (10'10") Industrial Stick	21 815 kg	48,094 lb
VA Boom		
MH 2.55 m (8'4") Undercarriage, 2800 mm (9'2") Digging Stick	22 685 kg	50,012 lb
Sticks**		
Digging (2500 mm/8'2")	850 kg	1,874 lb
Digging (2800 mm/9'2")	895 kg	1,973 lb
Industrial (3300 mm/10'10")	515 kg	1,135 lb
Straight (4200 mm/13'9")	1275 kg	2,811 lb
Drop Nose (4500 mm/14'9")	860 kg	1,896 lb
Drop Nose (4900 mm/16'1")	885 kg	1,951 lb
MH Push Blade	560 kg	1,235 lb
Solid Tires (delta vs. standard tires)	950 kg	2,094 lb
Counterweights		
Standard	3700 kg	8,160 lb
Optional	4200 kg	9,260 lb

^{*}Operating weight includes solid tires, 3700 kg (8,160 lb) counterweight, full fuel tank, operator, four outriggers undercarriage, attachment (1400 kg/3,086 lb). Weight varies depending on configuration.

Tank Capacity	153 L	40.4 gal
System	345 L	91.1 gal
Hydraulic System: Maxim	um Pressure	
Implement Circuit		
Normal	350 bar	5,076 psi
Heavy Lift	370 bar	5,366 psi
Travel Circuit	350 bar	5,076 psi
Auxiliary Circuit		
High Pressure	350 bar	5,076 psi
Medium Pressure	210 bar	3,046 psi
Swing Mechanism	310 bar	4,496.2 psi
Hydraulic System: Maxim	um Flow	
	290 L/min	78 gal/min
Implement/Travel Circuit	290 L/IIIII	
Implement/Travel Circuit Auxiliary Circuit	290 L/IIIII	8
	250 L/min	66 gal/min
Auxiliary Circuit		66 gal/min
Auxiliary Circuit High Pressure Medium Pressure	250 L/min	66 gal/min 12.9 gal/mir
Auxiliary Circuit High Pressure Medium Pressure	250 L/min 49 L/min	66 gal/min 12.9 gal/mir
Auxiliary Circuit High Pressure Medium Pressure Swing Mechanism Tires	250 L/min 49 L/min	66 gal/min 12.9 gal/mir
Auxiliary Circuit High Pressure Medium Pressure Swing Mechanism Tires 10.00-20 (dual pneumatic)	250 L/min 49 L/min	66 gal/min 12.9 gal/mir
Auxiliary Circuit High Pressure Medium Pressure Swing Mechanism Tires 10.00-20 (dual pneumatic)	250 L/min 49 L/min	66 gal/min 12.9 gal/mir
Auxiliary Circuit High Pressure Medium Pressure Swing Mechanism Tires 10.00-20 (dual pneumatic) 10.00-20 (dual solid rubber) Push Blade	250 L/min 49 L/min	66 gal/min 12.9 gal/mir
Auxiliary Circuit High Pressure Medium Pressure Swing Mechanism Tires 10.00-20 (dual pneumatic) 10.00-20 (dual solid rubber)	250 L/min 49 L/min 108 L/min	-

^{**}Includes cylinder, bucket linkage, pins and standard hydraulic lines.

Emissions and Safety		
Engine Emissions	Tier 4 Final	
Diesel Exhaust Fluid	Must meet 1	ISO 22241
Fluids (Optional)		
Cat Bio HYDO Advanced	Readily bio	degradable
	EU Flower certified	eco-label
Biodiesel up to B20	Meets EN 14214 or ASTM D6751 with EN590 or ASTM D975 standard mineral diesel fuels	
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 EM5	<0.7	

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.15 kg of refrigerant which has a CO_2 equivalent of 1.645 metric tonnes.

Standards	
Operator Protective Structure	
Top/Front Guards	FOPS (Falling Object Protective Structure) meets FOPS criteria ISO 10262:1998 and SAE J1356:2008
Cab/Sound Levels	Meets appropriate standards as listed below

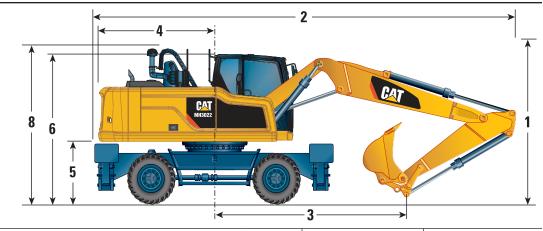
Sound Performance		
Operator Sound		
ISO 6396:2008	71 dB(A)	
Spectator Sound		
2000/14/EC, ISO 6395:2008	99 dB(A)*	

- *Noise level is for a machine without the generator.
- Operator Sound The operator sound level is measured according to the procedures specified in ISO 6396:2008, for a cab offered by Caterpillar, when properly installed and maintained and tested with the door and windows closed.
- Exterior Sound The labeled spectator sound power level is measured according to the test procedures and conditions specified in 2000/14/EC as amended by 2005/88/EC.
- 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).

Dimensions – With MH Undercarriage

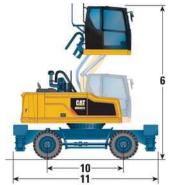
All dimensions are approximate.

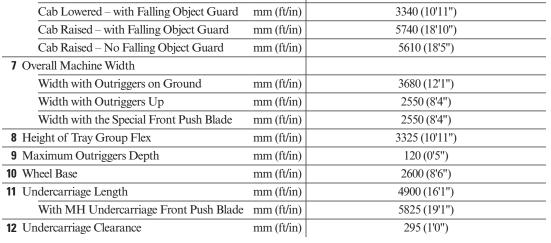






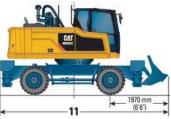
			VA Boo	m	On	e-Piece	Boom
Stick Length	mm (ft/in)	2500 (8'2")	2800 (9'2")	3300 (10'10")	2500 (8'2")	2800 (9'2")	3300 (10'10")
Stick Type		Digg	ging	Industrial	Dig	ging	Industrial
1 Shipping Height with Falling Object Guard (highest point between boom and cab)	mm (ft/in)			33 (10'			
2 Shipping Length	mm (ft/in)	8915 (29'3")	8890 (29'2")	8940 (29'4")	9025 (29'7")	9025 (29'7")	9040 (29'8")
3 Support Point	mm (ft/in)	3625 (11'11")	3485 (11'5")	3270 (10'9")	3480 (11'5")	3300 (10'10")	3070 (10'1")
4 Tail Swing Radius	mm (ft/in)			2570	(8'5")		
5 Counterweight Clearance	mm (ft/in)			1310	(4'4")		





mm (ft/in)

3210 (10'6")



Dimensions with MH 2.55 m (8'4") undercarriage, outriggers front and rear, and without work tool. Note: Values are with 10.00-20 pneumatic or with solid tires.

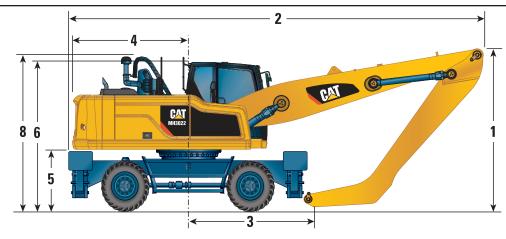
6 Cab Height with Hydraulic Cab Riser

Cab Lowered - No Falling Object Guard

Dimensions – With MH Undercarriage

All dimensions are approximate.







·		Lon	ng MH Bo	oom	Sho	rt MH B	oom
Boom Length	mm (ft/in)		6400 (21'0")			5350 (17'7")	
Stick Length	mm (ft/in)	4200 (13'9")	4500 (14'9")	4900 (16'1")	4200 (13'9")	4500 (14'9")	4900 (16'1")
Stick Type		Straight	Drop	Nose	Straight	Drop	Nose
1 Shipping Height with Falling Object Guard (highest point between boom and cab)	mm (ft/in)	3325 (10'11")	3325 (10'11")	3620 (11'11")	3325 (10'11")	3350 (11'0")	4535 (14'11")
2 Shipping Length	mm (ft/in)	9420 (30'11")	9360 (30'9")	9280 (30'5")	8310 (27'3")	8255 (27'1")	7885 (25'10")
3 Support Point	mm (ft/in)	3230 (10'7")	4300 (14'1")	2760 (9'1")	2190 (7'2")	2165 (7'1")	2400 (7'10")
4 Tail Swing Radius	mm (ft/in)			2570	(8'5")		
5 Counterweight Clearance	mm (ft/in)			1310	(4'4")		
6 Cab Height with Hydraulic Cab Riser							
Cab Lowered – No Falling Object Guard	mm (ft/in)			3210	(10'6")		
Cab Lowered – with Falling Object Guard	mm (ft/in)			3340 (10'11")		
Cab Raised – with Falling Object Guard	mm (ft/in)			5740 (18'10")		
Cab Raised – No Falling Object Guard	mm (ft/in)			5610	(18'5")		
7 Overall Machine Width							

mm (ft/in)

3680 (12'1")

2550 (8'4")

2550 (8'4")

3325 (10'11")

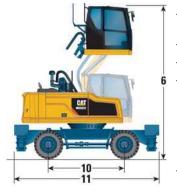
120 (0'5")

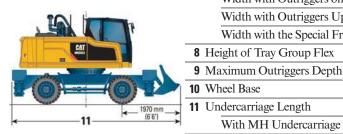
2600 (8'6")

4900 (16'1")

5825 (19'1")

295 (1'0")





Dimensions with MH 2.55 m (8'4") undercarriage, outriggers front and rear, and without work tool. When the shipping height is over 4 m (13'), the stick must be removed for transportation. Note: Values are with 10.00-20 pneumatic or with solid tires.

Width with Outriggers on Ground

Width with the Special Front Push Blade

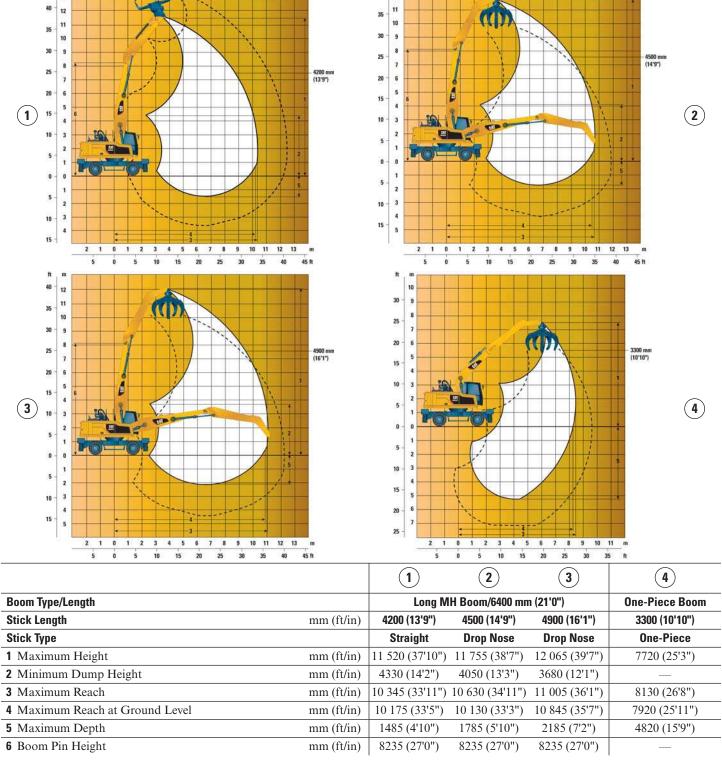
With MH Undercarriage Front Push Blade

Width with Outriggers Up

12 Undercarriage Clearance

Working Ranges

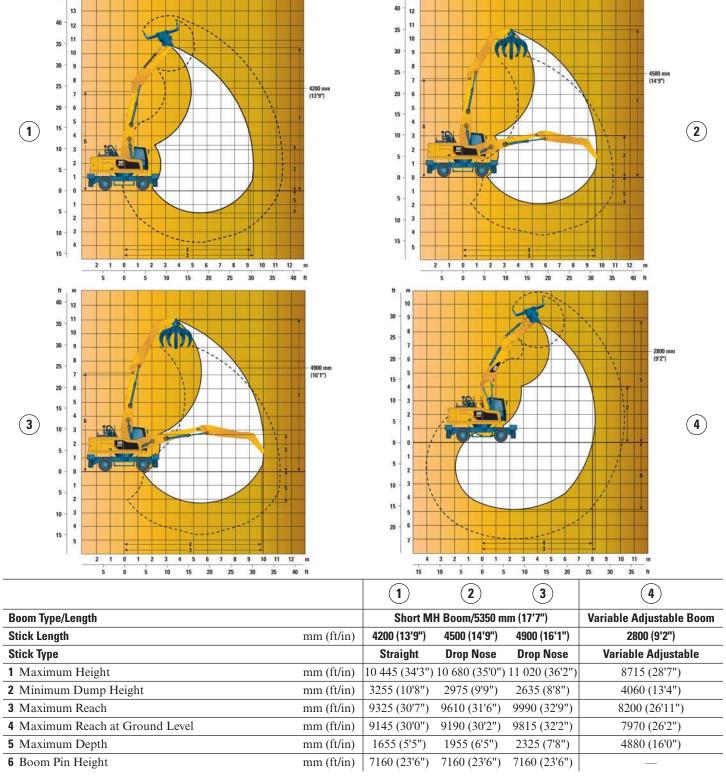
Values with an attachment are calculated with a G315B-WH grapple for the straight stick and a GSH15B-5-600 orange peel grapple for drop nose sticks.



All dimensions refer to stick nose pin, with solid tires.

Working Ranges

Values with an attachment are calculated with a G315B-WH grapple for the straight stick and a GSH15B-5-600 orange peel grapple for drop nose sticks.



All dimensions refer to stick nose pin, with solid tires.

Work Tool Offering Guide*

	Counterweight	3.7	mt (8,157	7 lb)	4.2	mt (9,25	9 lb)	3.7	mt (8,15	7 lb)	4.2	mt (9,259	lb)
	Undercarriage			MH (2.5 s Outrig	,					•	5 m/8'4") gers Lov		
	Boom Type		MH	l Boom (6.4 m/21	'0")			МН	Boom (5.35 m/1	7'7")	
	Stick Length	4200 mm/13'9" ⁽¹⁾	4500 mm/14'9" (2)	4900 mm/16'1" ⁽²⁾	4200 mm/13'9" ⁽¹⁾	4500 mm/14'9" (2)	4900 mm/16'1" (2)	4200 mm/13'9" (1)	4500 mm/14'9" (2)	4900 mm/16'1" (2)	4200 mm/13'9" (1)	4500 mm/14'9" (2)	4900 mm/16'1" ⁽²⁾
Material Handling Work Tools													
	G315B-D/R												
Demolition and Sorting Grapple	G315B-WH 800 L (1.04 yd ³)												
	G315B-WH 1100 L (1.44 yd3)												
	GSH15B 400 L (0.52 yd³)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	GSH15B 500 L (0.65 yd3)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Orange Peel Grapple	GSH15B 600 L (0.78 yd3)	1.2	1.8	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Horizontal Cylinders	GSH15B 800 L (1.05 yd3)		1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8
(4 or 5 Tines)	GSH420/GSH520 500L (0.65 yd3)	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	GSH420/GSH520 600 L (0.78 yd3)	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	GSH420/GSH520 750 L (0.98 yd³)	1.2	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8
Material Density		1.2	2 [T/m³] (2,000 lb/	yd³) (les	s dense	material)/1.8 [T/r	n³] (3,00	O lb/yd³)	(standar	d materi	al)
Demolition Work Tools													
Caron and Domalition Chaor	S325B												
Scrap and Demolition Shear	S340B												
Pin Grabber Coupler	Cat PG			Thi	s couple	er is ava	ilable for	the MH	3022 (lin	kage sti	ck).		
(1) Straight Stick	□ W	ork tool i	is a mato	:h									
(2) Drop Nose Stick	=	n-on only											
•			ont only										
			ont only		t PG cou	pler							
		om mou											
	□ No	t recom	mended										

^{*}Offerings not available in all areas. Matches are dependent on Wheeled Excavator configurations. Consult your Cat dealer to determine what is offered in your area and for proper work tool match.

Demolition and Sorting Grapple: D - Demolition shells; R - Recycling shells; WH - Waste Handling

Lift Capacities

All values are in kg, bucket cylinder and linkage installed, work tool: none, hydraulic cab riser, with counterweight (4200 kg), heavy lift on.

Load	point height Load	over front			Load	l over rea	r		Œ I	_oad ove	side		,	یا کے	oad at ma	ximum re	ach (stick	nose/bu	cket pin)	
Underd	arriage								Boom	1				S	tick					
MH (2	.55 m)								5.35	m MF	I (Sho	rt)		4	.2 m S	Straigl	nt			
> _⊤			3000 mm			4500 mm			6000 mm			7500 mm			9000 mm				=	
	Undercarriage configuration		7	æ		7	æ	4	7	-	P	7	F		4	F		7	-	mm
9000 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires				8450 *8550	8450 *8550	6150 *8550										5350 *5750	5350 *5750	3900 *5750	5900
7500 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires							5300 *8250	5300 *8250	3900 7100							3700 *5100	3700 *5100	2650 4950	7380
6000 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires							5300 *8600	5300 *8600	3850 7100	3650 6900	3650 6900	2600 4850				3000 *4800	3000 *4800	2150 4050	8340
4500 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires				8250 *11 100	8250 *11 100	5950 *11 100	5150 *8900	5150 *8900	3750 6950	3550 6850	3550 6850	2550 4800				2650 *4750	2650 *4750	1850 3550	8940
3000 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires	15 600 *18 000	15 600 *18 000	10 450 *18 000	7750 *12 250	7750 *12 250	5500 10 800	4950 *9300	4950 *9300	3550 6700	3450 6700	3450 6700	2450 4700	2550 5000	2550 5000	1800 3500	2450 4750	2450 4750	1700 3350	9260
1500 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires	*11 900 *11 900	*11 900 *11 900	9100 *11 900	7250 *12 950	7250 *12 950	5050 10 200	4700 *9450	4700 *9450	3300 6450	3350 6550	3350 6550	2350 4550	2500 4950	2500 4950	1750 3450	2400 4650	2400 4650	1650 3250	9320
0 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires	*6250 *6250	*6250 *6250	*6250 *6250	6850 *12 250	6850 *12 250	4700 9800	4500 *8900	4500 *8900	3150 6200	3250 6450	3250 6450	2250 4450							
-1500 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires				6650 *9850	6650 *9850	4500 9600	4400 *7300	4400 *7300	3000 6100										

^{*}Limited by hydraulic rather than tipping load.

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The load point is the center line of the bucket pivot mounting pin on the stick. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface. For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

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

Lift Capacities

All values are in lb, bucket cylinder and linkage installed, work tool: none, hydraulic cab riser, with counterweight (9,259 lb), heavy lift on.

Load	point height Load or	ver front		ĺ	P Load	over rea	r			oad over	side			Lo	ad at ma	ximum re	ach (stick	nose/bu	cket pin)	
Underd	arriage								Boon	1				S	tick					
MH (8	'4")								17'7"	MH ((Short	t)		1.	3'9" S	traigh	t			
>> _⊤			10.0 ft			15.0 ft			20.0 ft			25.0 ft			30.0 ft				=0	
	Undercarriage configuration	4	Pi	₽	₽.	Ą	₽	4	M	₽	4	M	₽	4	P	₽	4	Pr.		ft
30.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires				18,629 18,849	18,629 18,849	13,558 18,849										11,795 12,676	11,795 12,676	8,598 12,676	19
25.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires							11,684 18,188	11,684 18,188	8,598 15,653							8,157 11,243	8,157 11,243	5,842 10,913	24
20.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires							11,684 18,960	11,684 18,960	8,488 15,653	8,047 15,212	8,047 15,212	5,732 10,692				6,614 10,582	6,614 10,582	4,740 8,929	27
15.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires				18,188 24,471	18,188 24,471	13,117 24,471	11,354 19,621	11,354 19,621	8,267 15,322	7,826 15,102	7,826 15,102	5,622 10,582				5,842 10,472	5,842 10,472	4,079 7,826	29
10.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires	34,392 39,683	34,392 39,683	23,038 39,683	17,086 27,006	17,086 27,006	12,125 23,810	10,913 20,503	10,913 20,503	7,826 14,771	7,606 14,771	7,606 14,771	5,401 10,362	5,622 11,023	5,622 11,023	3,968 7,716	5,401 10,472	5,401 10,472	3,748 7,385	30
5.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires	26,235 26,235	26,235 26,235	20,062 26,235	15,983 28,550	15,983 28,550	11,133 22,487	10,362 20,833	10,362 20,833	7,275 14,220	7,385 14,440	7,385 14,440	5,181 10,031	5,512 10,913	5,512 10,913	3,858 7,606	5,291 10,251	5,291 10,251	3,638 7,165	30
0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires	13,779 13,779	13,779 13,779	13,779 13,779	15,102 27,006	15,102 27,006	10,362 21,605	9,921 19,621	9,921 19,621	6,944 13,669	7,165 14,220	7,165 14,220	4,960 9,810							
-5.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires				14,661 21,715	14,661 21,715	9,921 21,164	9,700 16,094	9,700 16,094	6,614 13,448										

^{*}Limited by hydraulic rather than tipping load.

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The load point is the center line of the bucket pivot mounting pin on the stick. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface. For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

 ${\bf Always\ refer\ to\ the\ appropriate\ Operation\ and\ Maintenance\ Manual\ for\ specific\ product\ information.}$

Lift Capacities

All values are in kg, work tool: none, hydraulic cab riser, with counterweight (4200 kg), heavy lift on.

Load	d point height Lo	ad over front		I	Load	over rea	r			oad over	side		,	, Lo	oad at ma	ximum re	ach (stick	nose/bu	cket pin)	
Underd	carriage								Boon	1				S	tick					
MH (2	2.55 m)								5.35	m MF	I (Sho	ort)		4	.5 m (drop 1	nose)			
\>			3000 mm			4500 mm			6000 mm			7500 mm			9000 mm			-	=	
	Undercarriage configuration	₽4	7	æ	₽ 	7	œ	P	7	æ	P	4	F	4	7	ŒP		7	ŒP	mm
10 500 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires																*7200 *7200	*7200 *7200	*7200 *7200	3960
9000 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires							5550 *6400	5550 *6400	4100 *6400							5050 *5550	5050 *5550	3750 *5550	6340
7500 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires							5650 *8350	5650 *8350	4200 7450	3950 *5700	3950 *5700	2900 5150				3700 *4950	3700 *4950	2750 4900	7740
6000 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires							5600 *8700	5600 *8700	4200 7400	3950 7200	3950 7200	2950 5150				3100 *4750	3100 *4750	2300 4100	8650
4500 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires				8600 *11 000	8600 *11 000	6300 *11 000	5450 *9050	5450 *9050	4050 7250	3900 7150	3900 7150	2900 5100	2900 5350	2900 5350	2150 3850	2800 *4700	2800 *4700	2050 3700	9230
3000 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires	*15 600 *15 600	*15 600 *15 600	10 950 *15 600	8150 *12 250	8150 *12 250	5900 11 200	5250 *9500	5250 *9500	3850 7000	3750 7000	3750 7000	2750 5000	2850 5300	2850 5300	2100 3800	2600 *4750	2600 *4750	1900 3450	9540
1500 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires	14 600 *20 400	14 600 *20 400	9650 *20 400	7600 *13 200	7600 *13 200	5400 10 600	5000 *9800	5000 *9800	3650 6750	3650 6900	3650 6900	2650 4850	2800 5200	2800 5200	2050 3750	2550 4750	2550 4750	1850 3400	9600
0 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires	*7050 *7050	*7050 *7050	*7050 *7050	7200 *12 900	7200 *12 900	5050 10 150	4800 *9450	4800 *9450	3450 6550	3550 6750	3550 6750	2550 4750	2750 *5050	2750 *5050	2000 3700				
-1500 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires				7000 *10 850	7000 *10 850	4850 9900	4700 *8050	4700 *8050	3350 6400										

^{*}Limited by hydraulic rather than tipping load.

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The load point is the center line of the bucket pivot mounting pin on the stick. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface. For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

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

Lift Capacities

All values are in lb, work tool: none, hydraulic cab riser, with counterweight (9,259 lb), heavy lift on.

[≫] Ţ Load	point height Load o	ver front			Load	over rea	r			Load over	side		4	C Lo	oad at ma	ximum re	ach (sticl	nose/bu	ıcket pin)	
Underd MH (8	earriage '4")								Boon 17'7"	n MH (Short	:)			tick 4'9" (c	irop n	ose)			
>> _T	,		10.0 ft			15.0 ft			20.0 ft		(25.0 ft			30.0 ft	····				
	Undercarriage configuration		P	æ		4	æ	4	P			4	æ	P	4	GP		P	Œ₽	ft
35.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires																*15,873 *15,873	*15,873 *15,873	*15,873 *15,873	13
30.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires							*12,236 *14,109	*12,236 *14,109	*9,039 *14,109							*11,133 *12,236	*11,133 *12,236	*8,267 *12,236	21
25.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires							*12,456 *18,408	*12,456 *18,408	*9,259 *16,424	*8,708 *12,566	*8,708 *12,566	*6,393 *11,354				*8,157 *10,913	*8,157 *10,913	*6,063 *10,803	25
20.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires							*12,346 *19,180	*12,346 *19,180	*9,259 *16,314	*8,708 *15,873	*8,708 *15,873	*6,504 *11,354				*6,834 *10,472	*6,834 *10,472	*5,071 *9,039	28
15.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires				*18,960 *24,251	*18,960 *24,251	*13,889 *24,251	*12,015 *19,952	*12,015 *19,952	*8,929 *15,983	*8,598 *15,763	*8,598 *15,763	*6,393 *11,243	*6,393 *11,795	*6,393 *11,795	*4,740 *8,488	*6,173 *10,362	*6,173 *10,362	*4,519 *8,157	30
10.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires	*34,392 *34,392	*34,392 *34,392	*24,140 *34,392	*17,967 *27,006	*17,967 *27,006	*13,007 *24,692	*11,574 *20,944	*11,574 *20,944	*8,488 *15,432	*8,267 *15,432	*8,267 *15,432	*6,063 *11,023	*6,283 *11,684	*6,283 *11,684	*4,630 *8,377	*5,732 *10,472	*5,732 *10,472	*4,189 *7,606	31
5.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires	*32,187 *44,974	*32,187 *44,974	*21,274 *44,974	*16,755 *29,101	*16,755 *29,101	*11,905 *23,369	*11,023 *21,605	*11,023 *21,605	*8,047 *14,881	*8,047 *15,212	*8,047 *15,212	*5,842 *10,692	*6,173 *11,464	*6,173 *11,464	*4,519 *8,267	*5,622 *10,472	*5,622 *10,472	*4,079 *7,496	31
0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires	*15,542 *15,542	*15,542 *15,542	*15,542 *15,542	*15,873 *28,439	*15,873 *28,439	*11,133 *22,377	*10,582 *20,833	*10,582 *20,833	*7,606 *14,440	*7,826 *14,881	*7,826 *14,881	*5,622 *10,472	*6,063 *11,133	*6,063 *11,133	*4,409 *8,157				
−5.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires				*15,432 *23,920	*15,432 *23,920	*10,692 *21,826	*10,362 *17,747	*10,362 *17,747	*7,385 *14,109										

^{*}Limited by hydraulic rather than tipping load.

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 $\label{thm:continuous} \textbf{Always refer to the appropriate Operation and Maintenance Manual for specific product information}$

Lift Capacities

All values are in kg, bucket cylinder and linkage installed, work tool: none, hydraulic cab riser, with counterweight (4200 kg), heavy lift on.

Load	point height Lo	ad over front		l	P Load	over rea	r		P	_oad over	side		,	C Lo	oad at ma	ximum re	ach (stick	nose/bu	cket pin)	
Underd	arriage								Boon	1				S	tick					
MH (2	2.55 m)								6.4 m	ı MH	(Long	g)		4	.2 m S	Straigh	ıt			
>> _⊤			3000 mm			4500 mm			6000 mm			7500 mm			9000 mm				=	
	Undercarriage configuration		7	æ	4	7	œ	4	P	ŒP	₽ 	4	ŒP		7	æ		7	₽	mm
10 500 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires				*8100 *8100	*8100 *8100	6100 *8100										5850 *6200	5850 *6200	4250 *6200	1 55/0
9000 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires							5300 *8100	5300 *8100	3900 7100							3650 *5300	3650 *5300	2600 4900	1 7420
7500 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires							5300 *8250	5300 *8250	3900 7100	3600 6900	3600 6900	2600 4850				2750 *4900	2750 *4900	1950 3750	1 86/10
6000 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires				8400 *10 600	8400 *10 600	6050 *10 600	5200 *8500	5200 *8500	3800 7000	3550 6850	3550 6850	2550 4800	2550 5000	2550 5000	1800 3500	2350 4600	2350 4600	1600 3200	9460
4500 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires	*14 500 *14 500	*14 500 *14 500	10 850 *14 500	7900 *11 500	7900 *11 500	5650 11 000	4950 *8850	4950 *8850	3550 6750	3450 6750	3450 6750	2450 4700	2550 4950	2550 4950	1750 3450	2100 4150	2100 4150	1400 2900	1.10.000
3000 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires				7250 *12 450	7250 *12 450	5050 10 250	4650 *9200	4650 *9200	3300 6400	3300 6550	3300 6550	2300 4500	2450 4850	2450 4850	1650 3400	1950 3950	1950 3950	1300 2700	1 10 280
1500 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires				6650 *12 450	6650 *12 450	4500 9600	4350 *9100	4350 *9100	3000 6100	3150 6350	3150 6350	2150 4350	2350 4800	2350 4800	1600 3300	1900 3850	1900 3850	1250 2650	10 340
0 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires				6300 *9400	6300 *9400	4200 9200	4150 *8350	4150 *8350	2800 5900	3000 6200	3000 6200	2050 4200	2300 4700	2300 4700	1550 3200				

^{*}Limited by hydraulic rather than tipping load.

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Lift Capacities

All values are in lb, bucket cylinder and linkage installed, work tool: none, hydraulic cab riser, with counterweight (9,259 lb), heavy lift on.

Load	point height Load o	ver front		I	Load	over rea	r			Load over	r side		=	C Lo	oad at ma	ximum re	ach (sticl	c nose/bu	cket pin)	
Underd	arriage								Boon	1				S	tick					
MH (8	3'4")								21'0"	MH ((Long	()		1	3'9" S	traigh	t			
S _T			10.0 ft			15.0 ft			20.0 ft			25.0 ft			30.0 ft				=	
	Undercarriage configuration		4	ŒP		7	æ		7	P	4	7	-		9	F	4	7	F	ft
35.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires				*17,857 *17,857	*17,857 *17,857	*13,448 *17,857										*12,897 *13,669	*12,897 *13,669	*9,370 *13,669	1 18
30.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires							*11,684 *17,857	*11,684 *17,857	*8,598 *15,653							*8,047 *11,684	*8,047 *11,684	*5,732 *10,803	1 74
25.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires							*11,684 *18,188	*11,684 *18,188	*8,598 *15,653	*7,937 *15,212	*7,937 *15,212	*5,732 *10,692				*6,063 *10,803	*6,063 *10,803	*4,299 *8,267	28
20.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires				*18,519 *23,369	*18,519 *23,369	*13,338 *23,369	*11,464 *18,739	*11,464 *18,739	*8,377 *15,432	*7,826 *15,102	*7,826 *15,102	*5,622 *10,582	*5,622 *11,023	*5,622 *11,023	*3,968 *7,716	*5,181 *10,141	*5,181 *10,141	*3,527 *7,055	31
15.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires	*31,967 *31,967	*31,967 *31,967	*23,920 *31,967	*17,416 *25,353	*17,416 *25,353	*12,456 *24,251	*10,913 *19,511	*10,913 *19,511	*7,826 *14,881	*7,606 *14,881	*7,606 *14,881	*5,401 *10,362	*5,622 *10,913	*5,622 *10,913	*3,858 *7,606	*4,630 *9,149	*4,630 *9,149	*3,086 *6,393	1 33
10.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires				*15,983 *27,447	*15,983 *27,447	*11,133 *22,597	*10,251 *20,282	*10,251 *20,282	*7,275 *14,109	*7,275 *14,440	*7,275 *14,440	*5,071 *9,921	*5,401 *10,692	*5,401 *10,692	*3,638 *7,496	*4,299 *8,708	*4,299 *8,708	*2,866 *5,952	1 34
5.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires				*14,661 *27,447	*14,661 *27,447	*9,921 *21,164	*9,590 *20,062	*9,590 *20,062	*6,614 *13,448	*6,944 *13,999	*6,944 *13,999	*4,740 *9,590	*5,181 *10,582	*5,181 *10,582	*3,527 *7,275	*4,189 *8,488	*4,189 *8,488	*2,756 *5,842	1 34
0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires				*13,889 *20,723	*13,889 *20,723	*9,259 *20,282	*9,149 *18,408	*9,149 *18,408	*6,173 *13,007	*6,614 *13,669	*6,614 *13,669	*4,519 *9,259	*5,071 *10,362	*5,071 *10,362	*3,417 *7,055				

^{*}Limited by hydraulic rather than tipping load.

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Lift Capacities

All values are in kg, work tool: none, hydraulic cab riser, with counterweight (4200 kg), heavy lift on.

Loa	d point height	Load ove	r front			P Los	ad over r	ear		С	🖫 Loa	nd over s	side		4		Load at	maximu	ım reacl	ı (stick n	ose/buc	ket pin)	
	carriage									_	oom						Stick	(
MH (2.55 m)									6	.4 m l	MH (Long	g)			4.9 n	n (dro	op no	se)			
>> _			3000 mm	1		4500 mm	ı	(6000 mm	ı	7	7500 mm		,	9000 mm		1	0 500 mn	n			=	
	Undercarriage configuration		P	ŒP	4	7	4		P	æ		9			P	æ		7	æ	4	P	œ	mm
12 000 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires																			*6950 *6950	*6950 *6950	*6950 *6950	3970
10 500 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires							5600 *6500	5600 *6500	4200 *6500										4650 *5250	4650 *5250	3450 *5250	6700
9000 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires							5750 *7850	5750 *7850	4300 7550	4000 *6300	4000 *6300	2950 5250							3350 *4650	3350 *4650	2450 4400	8320
7500 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires							5750 *8150	5750 *8150	4300 7550	4000 *7050	4000 *7050	3000 5250	2950 5400	2950 5400	2150 3900				2700 *4400	2700 *4400	2000 3600	9420
6000 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires							5600 *8400	5600 *8400	4200 7450	3950 *7150	3950 *7150	2950 5200	2950 5400	2950 5400	2150 3850				2350 *4300	2350 *4300	1700 3150	10 180
4500 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires				8500 *11 150	8500 *11 150	6200 *11 150	5400 *8850	5400 *8850	4000 7200	3850 7100	3850 7100	2800 5050	2850 5300	2850 5300	2100 3800	2250 4150	2250 4150	1600 3000	2150 4050	2150 4050	1550 2900	10 680
3000 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires	15 400 *18 550	15 400 *18 550	10 250 *18 550	7850 *12 350	7850 *12 350	5600 10 900	5100 *9350	5100 *9350	3700 6850	3650 6950	3650 6950	2650 4900	2800 5200	2800 5200	2000 3700	2200 4100	2200 4100	1550 2950	2050 3850	2050 3850	1450 2750	10 940
1500 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires				7200 *12 950	7200 *12 950	5000 10 150	4800 *9550	4800 *9550	3400 6550	3500 6750	3500 6750	2500 4700	2700 5100	2700 5100	1900 3600	2150 4050	2150 4050	1500 2900	2000 3800	2000 3800	1400 2700	11 000
0 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires	*3500 *3500	*3500 *3500	*3500 *3500		6750	4600 9650	4550 *9150	4550 *9150	3200 6250	3350 6550	3350 6550	2350 4550	2600 5000	2600 5000	1850 3550	2100 *4000	2100 *4000	1500 2850				
-1500 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires				6550 *9600	6550 *9600	4450 9450	4400 *7950	4400 *7950	3050 6100	3250 *6200	3250 *6200	2300 4450	2550 *4650	2550 *4650	1800 3500							

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Lift Capacities

All values are in lb, work tool: none, hydraulic cab riser, with counterweight (9,259 lb), heavy lift on.

Loa	d point height	oad ove	r front			₽ Loa	ad over r	ear			E Lo	ad over	side		€		Load at	maximu	ım reach	ı (stick n	ose/buc	ket pin)	
Under MH (carriage 8'4")									_	oom 1'0" N	МΗ (Long)			Stick 16'1'		p nos	se)			
→			10.0 ft			15.0 ft			20.0 ft			25.0 ft			30.0 ft			35.0 ft				=	
T	Undercarriage configuration		P	æ		P	GP		P	₽	4	V	GP		P	ŒP		P	GP		P	œ.	ft
40.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires																			15,322 15,322	15,322 15,322	15,322 15,322	13
35.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires							12,346 14,330	12,346 14,330	9,259 14,330										10,251 11,574	10,251 11,574	7,606 11,574	22
30.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires							12,676 17,306	12,676 17,306	9,480 16,645	8,818 13,889	8,818 13,889	6,504 11,574							7,385 10,251	7,385 10,251	5,401 9,700	27
25.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires							12,676 17,967	12,676 17,967	9,480 16,645	8,818 15,542	8,818 15,542	6,614 11,574	6,504 11,905	6,504 11,905	4,740 8,598				5,952 9,700	5,952 9,700	4,409 7,937	31
20.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires							12,346 18,519	12,346 18,519	9,259 16,424	8,708 15,763	8,708 15,763	6,504 11,464	6,504 11,905	6,504 11,905	4,740 8,488				5,181 9,480	5,181 9,480	3,748 6,944	33
15.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires				18,739 24,581	18,739 24,581	13,669 24,581	11,905 19,511	11,905 19,511	8,818 15,873	8,488 15,653	8,488 15,653	6,173 11,133	6,283 11,684	6,283 11,684	4,630 8,377	4,960 9,149	4,960 9,149	3,527 6,614	4,740 8,929	4,740 8,929	3,417 6,393	35
10.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires	33,951 40,895	33,951 40,895	22,597 40,895	17,306 27,227	17,306 27,227	12,346 24,030	11,243 20,613	11,243 20,613	8,157 15,102	8,047 15,322	8,047 15,322	5,842 10,803	6,173 11,464	6,173 11,464	4,409 8,157	4,850 9,039	4,850 9,039	3,417 6,504	4,519 8,488	4,519 8,488	3,197 6,063	36
5.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires				15,873 28,550	15,873 28,550	11,023 22,377	10,582 21,054	10,582 21,054	7,496 14,440	7,716 14,881	7,716 14,881	5,512 10,362	5,952 11,243	5,952 11,243	4,189 7,937	4,740 8,929	4,740 8,929	3,307 6,393	4,409 8,377	4,409 8,377	3,086 5,952	36
0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires	7,716 7,716		7,716 7,716		14,881 26,896	10,141 21,274	10,031 20,172	10,031 20,172	7,055 13,779	7,385 14,440	7,385 14,440	5,181 10,031	5,732 11,023	5,732 11,023	4,079 7,826	4,630 8,818	4,630 8,818	3,307 6,283				
-5.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires				14,440 21,164	14,440 21,164	9,810 20,833	9,700 17,527	9,700 17,527	6,724 13,448	7,165 13,669	7,165 13,669	5,071 9,810	5,622 10,251	5,622 10,251	3,968 7,716							

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Lift Capacities

All values are in kg, bucket cylinder and linkage installed, work tool: none, hydraulic cab riser, with counterweight (4200 kg), heavy lift on.

Load point height Load over front		er front	t V Load over rear				CP Load over side					Load at maximum reach (stick nose/bucket pin)						
Undercarriage						Boom						Stick						
MH (2	2.55 m)					One-Piece						3.3 m Industrial						
>> _T			3000 mm			4500 mm			6000 mm			7500 mm						
	Undercarriage configuration		9	GP	6	9	œ	P.	9	œ	P.	ng -	GP		9	æ	mm	
7500 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires													*3400 *3400	*3400 *3400	*3400 *3400	6160	
6000 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires													*3250 *3250	*3250 *3250	3200 *3250	7310	
4500 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires							5600 *5650	5600 *5650	4200 *5650	4050 *4550	4050 *4550	3050 *4550	*3250 *3250	*3250 *3250	2750 *3250	8020	
3000 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires				*8050 *8050	*8050 *8050	5950 *8050	5400 *6450	5400 *6450	4050 *6450	3950 *5600	3950 *5600	2950 5150	*3350 *3350	*3350 *3350	2500 *3350	8380	
1500 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires				7750 *9750	7750 *9750	5550 *9750	5200 *7250	5200 *7250	3850 6950	3850 *5950	3850 *5950	2850 5050	3250 *3600	3250 *3600	2450 *3600	8470	
0 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires	*7000 *7000	*7000 *7000	*7000 *7000	7450 *10 600	7450 *10 600	5300 10 350	5050 *7750	5050 *7750	3700 6750	3750 *6150	3750 *6150	2800 4950	3300 *4100	3300 *4100	2450 *4100	8270	
-1500 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires	*9800 *9800	*9800 *9800	9050 *9800	7300 *10 500	7300 *10 500	5150 10 200	4950 *7750	4950 *7750	3600 6650	3700 *5950	3700 *5950	2750 4900	3550 *4950	3550 *4950	2650 4700	7770	
-3000 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires	*13 450 *13 450	*13 450 *13 450	9150 *13 450	7300 *9500	7300 *9500	5150 *9500	4950 *7000	4950 *7000	3600 6650				4150 *5800	4150 *5800	3050 5500	6900	
-4500 mm	Stabilizers raised – solid tires Stabilizers lowered – solid tires	*9900 *9900	*9900 *9900	9350 *9900	*7200 *7200	*7200 *7200	5250 *7200							*5650 *5650	*5650 *5650	4100 *5650	5470	

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Lift Capacities

All values are in lb, bucket cylinder and linkage installed, work tool: none, hydraulic cab riser, with counterweight (9,259 lb), heavy lift on.

Load point height Load over front		nt	Load over rear				Load over side					Load at maximum reach (stick nose/)
Undercarriage							Boom					Stick					
MH (8	5'4")					One-Piece						10'10" Industrial					
>>_⊤			10.0 ft			15.0 ft		20.0 ft			25.0 ft						
1	Undercarriage configuration		P	æ	P	P	F	P	P	æ	P	7	æ	P	P	æ	ft
25.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires													*7,496 *7,496	*7,496 *7,496	*7,496 *7,496	20
20.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires													*7,165 *7,165	*7,165 *7,165	*7,055 *7,165	24
15.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires							*12,346 *12,456	*12,346 *12,456	*9,259 *12,456	*8,929 *10,031	*8,929 *10,031	*6,724 *10,031	*7,165 *7,165	*7,165 *7,165	*6,063 *7,165	26
10.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires				*17,747 *17,747	*17,747 *17,747	*13,117 *17,747	*11,905 *14,220	*11,905 *14,220	*8,929 *14,220	*8,708 *12,346	*8,708 *12,346	*6,504 *11,354	*7,385 *7,385	*7,385 *7,385	*5,512 *7,385	27
5.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires				*17,086 *21,495	*17,086 *21,495	*12,236 *21,495	*11,464 *15,983	*11,464 *15,983	*8,488 *15,322	*8,488 *13,117	*8,488 *13,117	*6,283 *11,133	*7,165 *7,937	*7,165 *7,937	*5,401 *7,937	28
0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires	*15,432 *15,432	*15,432 *15,432	*15,432 *15,432	*16,424 *23,369	*16,424 *23,369	*11,684 *22,818	*11,133 *17,086	*11,133 *17,086	*8,157 *14,881	*8,267 *13,558	*8,267 *13,558	*6,173 *10,913	*7,275 *9,039	*7,275 *9,039	*5,401 *9,039	27
−5.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires	*21,605 *21,605	*21,605 *21,605	*19,952 *21,605	*16,094 *23,148	*16,094 *23,148	*11,354 *22,487	*10,913 *17,086	*10,913 *17,086	*7,937 *14,661	*8,157 *13,117	*8,157 *13,117	*6,063 *10,803	*7,826 *10,913	*7,826 *10,913	*5,842 *10,362	25
-10.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires	*29,652 *29,652	*29,652 *29,652	*20,172 *29,652	*16,094 *20,944	*16,094 *20,944	*11,354 *20,944	*10,913 *15,432	*10,913 *15,432	*7,937 *14,661				*9,149 *12,787	*9,149 *12,787	*6,724 *12,125	22
-15.0 ft	Stabilizers raised – solid tires Stabilizers lowered – solid tires	*21,826 *21,826	*21,826 *21,826	*20,613 *21,826	*15,873 *15,873	*15,873 *15,873	*11,574 *15,873							*12,456 *12,456	*12,456 *12,456	*9,039 *12,456	18

^{*}Limited by hydraulic rather than tipping load.

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The load point is the center line of the bucket pivot mounting pin on the stick. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface. For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

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

MH3022 Standard Equipment

Standard Equipment

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

ELECTRICAL

- Alternator, 115A
- Heavy Duty maintenance free batteries
- Lighting
- -Boom and stick LED working light
- One LED light on the counterweight for the rear camera, and one on the right for the sideview camera.
- -Cab LED interior dome light
- -Roading lights two front, halogen
- -Roading lights two rear, LED
- Working LED lights, cab mounted (two front and one rear), compatible with Falling Objects Guards
- · Main shut-off switch
- · Signal/warning horn

ENGINE

- Cat C7.1 ACERT technology engine meets Tier 4 Final emission standards
- Aftertreatment technologies including the Cat Clean Emission Module (Cat CEM) package
- · Air filter
- 3000 m (9,842 ft) altitude capability without de-rate
- Automatic Engine Speed Control (AESC), including One Touch Low Idle
- Engine Idle Shutdown (EIS)
- · Automatic starting aid
- Fuel filter
- Fuel/water separator with water in fuel switch
- 48° C (118° F) ambient cooling capability without de-rate
- Power mode selector
- Electric fuel priming pump
- Capability of running with biodiesel fuel (B20)

HYDRAULICS

- · Adjustable hydraulic sensitivity
- Cat XTTM-6 ES hoses
- Control circuits (standard and optional, depending on boom/stick/linkage choice):
- Medium pressure
 - Two-way, medium pressure circuit, for rotating or tilting of attachments
- · Heavy lift mode
- · Load-sensing hydraulic system
- · Oil cooler
- · Quick disconnect couplings
- Separate swing pump
- Electric Pump Control (EPC)
- Boom Lowering Check Valve (BLCV), including overload warning device
- Stick Lowering Check Valve (SLCV)

OPERATOR STATION

- Additional color monitor for cameras, split-screen display for both cameras' view
- Adjustable armrests
- Air conditioner, heater and defroster with automatic climate control
- Beverage cup/can holder
- Bolt-on top/front guards capability
- Bottle holder
- Bottom mounted, intermittent (four speeds), parallel wiping system, covering upper and lower windshield glass
- CD/MP3 radio (12V) including speakers and 12V converter
- · Coat hook
- Cruise control system
- Floor mat, washable, with storage compartment
- Fully adjustable suspension seat
- · Hydraulic cab riser

- Instrument panel and gauges, full graphic and color display
- -Information and warning messages in local language
- Gauges for fuel and DEF levels, engine coolant and hydraulic oil temperature
- Filters/fluids change interval, working hours
- Indicators for headlights, turning signal, low fuel, engine dial setting
- -Clock with 10-day backup battery
- Interior LED lighting with door switch
- Joysticks, pilot operated with one proportional slider
- · Laminated front windshield
- Left side console, tiltable, with lock out for all controls
- Cigarette lighter (24V)
- Literature holder in right console
- Mobile phone holder
- · Parking brake
- Pin code type engine start prevention, integrated into the monitor
- Power supply, 12V-10A
- Rear window (tempered glass)/emergency exit, with hammer
- Retractable seat belt, integrated into the seat
- Seat belt indicator and alarm
- · Skylight, laminated glass
- · Sliding door windows
- Steering column, adjustable angle and height
- Step, integrated into the skirt
- Storage area suitable for a lunch box
- Sunshade for windshield and skylight
- Safety lever, integrated into the left console
- Sealed cab, with positive filtered, variable speed ventilation

continued on next page

MH3022 Standard Equipment

Standard Equipment (continued)

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

UNDERCARRIAGE

- Automatic brake and axle lock
- · Electronic swing and travel lock
- · Creeper speed
- Four wheel drive
- Heavy-duty axles, advanced travel motor, adjustable braking force and disc brake system
- Oscillating front axle, lockable, with remote greasing point
- Steps, wide, left and right
- Tool boxes, left and right, in undercarriage
- Two-speed hydrostatic transmission
- One-piece drive shaft, with 1,000 hours greasing intervals

OTHER EQUIPMENT

- Auto-lube system (implements and swing gear)
- Automatic swing brake
- · Capability to add auxiliary hydraulic circuit
- Cat Electronic Technician capability (ET)
- Counterweight, 3700 kg (8,160 lb)
- Door locks and cap locks with Cat one-key security system
- · Mirrors, wide angle, frame and cab
- Product Link

- Cameras
- Rear mounted wide angle camera, integrated into the counterweight
- Right side wide angle camera, mounted on the cooling hood.
- S·O·SSM Quick Sampling valves for engine oil, hydraulic oil and coolant
- Engine emergency shutoff switch
- Spacer rings for tires
- Cooling package, fine mesh screen, and engine air precleaner

Optional Equipment

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

AUXILIARY CONTROLS AND LINES

- · Auxiliary boom and stick lines
- Control circuits (standard and optional, depending on boom/stick/linkage choice):
 - -Tool control/multi function
 - One/two-way high pressure for hammer application or opening and closing of an attachment
 - Programmable flow and pressure for up to 10 work tools selection via monitor
 - Quick coupler circuit and lines for hydraulic quick coupler (both Cat pin grabber and dedicated/CW quick couplers, controlled by a dedicated switch)
- SmartBoom

HYDRAULICS

• Cat BIO HYDO Advanced HEES biodegradable hydraulic oil

FRONT LINKAGE

- VA boom 5260 mm (17'3"):
- Digging stick 2500, 2800 mm (8'2", 9'2")
- -Industrial stick 3300 mm (10'10")
- One-Piece boom 5350 mm (17'7"):
- Digging stick 2500, 2800 mm (8'2", 9'2")
- -Industrial stick 3300 mm (10'10")
- Material Handling boom 6400 mm (21'0"):
- Drop nose MH stick 4500, 4900 mm (14'9", 16'1")
- -Straight MH stick 4200 mm (13'9")
- Material Handling boom 5350 mm (17'7"):
- -Drop nose MH stick 4500, 4900 mm (14'9", 16'1")
- -Straight MH stick 4200 mm (13'9")

ELECTRICAL

- · Adjustable travel alarm
- Rotating beacon
- Generator, 15 kW (20 hp)

OPERATOR STATION

- Top/front guards
- Joystick steering
- Advanced joysticks with two proportional sliders
- · High pressure auxiliary pedal
- Seat, adjustable high-back, with vertical and horizontal air-suspension and head rest
- Automatic weight adjustment, mechanical lumbar support, passive climate system, seat cushion length/angle adjustment and heated seat (Comfort)
- Automatic height and weight adjustment, active climate system, premium microfiber seat fabric, pneumatic lumbar support, seat cushion length and angle adjustment and adjustable dampening, heated and ventilated (Deluxe)
- Visor for rain protection
- · Windshield
- One-piece, impact resistant, laminated windshield and skylight (EN356 P5A, 10 mm/0.4")
- -70/30 split, openable
- -70/30 split, fixed
- High impact resistant, and skylight (EN356 P8B, 26 mm/1")
- Mirrors, electrically adjustable and heated, frame and cab

TIRES

- Dual pneumatic 10.00-20
- Dual solid rubber, 10.00-20

UNDERCARRIAGE

- MH 2.55 m (8'4") undercarriage with four welded outriggers
- MH 2.55 m (8'4") undercarriage with four welded outriggers and front mounted blade
- · Easy Cab Access Package, front
- Easy Cab Access Package, rear

OTHER EQUIPMENT

- Bucket linkages
- Cat Machine Security System
- Counterweight, 4200 kg (9,260 lb)
- Hydraulic quick coupler
- Maximum speed 20 km/h (12.4 mph) or 25 km/h (15.5 mph)*
- Refueling pump with dedicated tray for the hose
- Waste Handling Package, adds a reversing fan and vibrating grill to the cooling protection package
- Advanced Cab Filtration System
- Attachments (see page 27)
- *25 km/h (15.5 mph) not compatible with solid tires

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