

Engine		
Engine Model	Cat [®] C6.6 AC	ERT TM
Net Power	123 kW	165 hp
• Maximum power at rate	ed speed of 2,0	00 rpm
Weights		
Operating weight	23 550 kg (51)	,919 lb)
	to 25 675 kg (56,604 lb)
Transmission		
Maximum travel speed	25 km/h	16 mph

M322D Material Handler

The D series Material Handlers incorporates innovations for improved performance and versatility.

Engine

✓ Caterpillar's exclusive ACERT[™] Technology surpasses the most stringent emissions requirements in the construction industry. The U.S. EPA Tier 3 compliant C6.6 offers increased performance and reliability while reducing fuel consumption and sound levels. **pg. 4**

Versatility

Caterpillar offers a wide variety of factory-installed attachments that enhance performance and job site management. **pg. 11**

Hydraulics

The state of the art load-sensing hydraulic system provides you with faster cycle times and increased productivity on any material handling job. **pg. 5** The redesigned operator station maximizes comfort and increase safety. The air-suspension seat the heated and cooled ventilated cu

Operator Comfort

✓ The redesigned operator station maximizes comfort and increases safety. The air-suspension seat with heated and cooled ventilated cushions improves operator comfort, while the new color monitor and optional rearmounted camera enhance visibility. pg. 6

Complete Customer Support

Your Cat[®] dealer offers a wide range of services that can be set up under a customer agreement when you purchase your equipment. Your dealer will help you choose a plan that can cover everything from machine and attachment selection to replacement. **pg. 12**

Increased lifting capacity, improved cycle times and ease of operation lead to increased productivity and cost effective solutions.

Elevated Cab

✓ The new D-Series Material Handler elevated cab has been redesigned, focusing on operator safety and comfort while maintaining the fastest solution for maximum visibility. pg. 8

Undercarriage

✓ Various undercarriage configurations are available to provide the best solution for your work environment; these configurations can include a dozer blade and/or outriggers depending on your needs. **pg. 9**

Booms and Sticks

Caterpillar[®] booms and sticks are built for performance and long service life. The box section design provides the strength needed for even the toughest applications. Multiple boom and stick options allow you to pick the best match for your job. **pg. 10**

Environmentally Responsible Design

✓ Helping to protect our environment, the engine has low operator and spectator sound levels, longer filter change intervals and is more fuel-efficient. pg. 13

Serviceability

✓ For increased safety, all daily maintenance points are accessible from ground level. A centralized greasing system allows lubrication of critical points. pg. 14

Engine

Built for power, reliability, low maintenance, excellent fuel economy and low emissions.



Powerful Performance. The Cat[®] C6.6 with ACERTTM Technology introduces a series of evolutionary, incremental improvements that provide breakthrough engine performance. The building blocks of ACERT Technology are fuel delivery, air management and electronic control. ACERT Technology optimizes engine performance while meeting U.S. EPA Tier 3 engine emission regulations. The Cat C6.6 engine in the M322D MH delivers a maximum gross power of 129 kW (173 hp) at a rated speed of 2,000 rpm. This is 2% more horsepower as compared to the 3056E in the M322C MH.

Low Fuel Consumption. The C6.6 is electronically controlled and uses the new Cat Common Rail Fuel System and fuel pump. This combination provides outstanding fuel consumption during both production and travel. When the system recognizes roading application the engine adjusts to the most efficient system operating point to save fuel without compromising road performance.

Low Noise, Low Vibration. The Cat C6.6 design improves operator comfort by reducing sound and vibration.

Cooling System. An electronically controlled, hydraulic motor drives a variable speed on-demand fan for engine coolant and hydraulic oil. The optimum fan speed is determined based on coolant and hydraulic oil temperature resulting in reduced fuel consumption and lower sound levels. The electronic engine control continuously compensates for the varying fan load, providing consistent net power, regardless of operating conditions.

One-Touch Low Idle Control. The twostage, one-touch Automatic Engine Speed Control reduces engine speed if no operation is performed, maximizing fuel efficiency and reducing sound levels.

Waste Handling Package. The Waste Handling Package has been specifically developed for Cat Wheel Excavators working in waste transfer stations or other extremely dusty applications. This option features the following:

- An automatic, hydraulic reversible fan that reverses airflow after a set interval, manually adjustable between 2 and 60 minutes with a switch located inside the cab.
- A special dense wire mesh cooling system hood further reduces radiator clogging.
- Two cyclone filters provide clean filtered air to the engine compartment, air cleaner, aftercooler and air conditioner condenser.

Hydraulics

The state of the art hydraulic system provides you with faster cycle times and increased productivity on any material handling job.

Improved Implement Speed. Due to new spools and increased horsepower, the M322D MH is able to offer even faster stick and swing speeds, leading to more productivity.

Dedicated Swing Pump. A dedicated variable displacement piston pump and fixed displacement piston motor power the swing mechanism. This closed hydraulic circuit maximizes swing performance without reducing power to the other hydraulic functions, resulting in smoother combined movements.

Heavy Lift Mode. This mode maximizes lifting performance by boosting the lifting capability of the material handler by 7 percent. Heavy loads can be easily moved in the full working range of the machine, maintaining excellent stability and speed.

Adjustable Hydraulic Sensitivity.

This function allows the operator to adjust the aggressiveness of the machine according to the application. For precision work, one of four different levels of aggressiveness can be pre-selected.



Proportional Auxiliary Hydraulics. Versatility of the hydraulic system can be expanded to utilize a wide variety of hydraulic work tools using multiple valve options.



- The Multi-Combined Valve is the core of the Tool Control System, allowing the operator to select up to ten pre-programmed work tools from the monitor. These preset hydraulic parameters support either one-way or two-way flow. The joystick sliding switches allow modulated control of the work tool.
- The Medium Pressure Function Valve provides proportional flow that is ideal for rotating tools.
- A new feature for the D-Series Material Handlers is the optional second High Pressure Valve. In combination with the Multi-Combined Valve, it provides the possibility to operate the machine with work tools or in applications requiring a third auxiliary hydraulic function, such as a tilting/rotating quick coupler.

Stick Regeneration Circuit. The stick regeneration circuit increases efficiency and helps increase controllability for higher productivity and lower operating costs.

Hydraulic Snubbers. Caterpillar integrates its cylinder snubber technology into all Wheel Material Handler boom, stick and hydraulic cab riser cylinders. These snubbers help cushion shock, reduce sound and increase cylinder life.

Caterpillar® XT™ 6 ES Hoses. Premium quality rubber, precision 4-ply wire reinforcement and exclusive reusable couplings are all unique features that deliver top performance and long life.

Operator Comfort

The interior layout maximizes operator space, provides exceptional comfort and reduces operator fatigue.



Interior Operator Station. Improved

visibility and ergonomics are some of the many new features of the D-Series Wheel Excavators. The pressurized operator station provides maximum space and is designed for simplicity and functionality. Frequently used switches are centralized and are situated on the right-hand switch console. The lefthand seat console controls dozer blade and/or outriggers, and is tiltable for easy access to the cab. The fully automatic climate control adjusts temperature and air flow for exceptional operator comfort. Other comfort features include a cigar lighter, ashtray, drink/bottle holder, magazine rack and integrated mobile phone holder.

Cab Construction. The exterior design uses thick steel tubing along the bottom perimeter of the cab, improving the resistance to fatigue and vibration. This design allows the falling object guards to be bolted directly to the cab. The cab shell is attached to the frame with rubber mounts that limit vibration and sound transmitted from the frame, substantially reducing interior noise levels.



Viewing Area. To maximize visibility, all glass is affixed directly to the cab, eliminating the use of window frames. Choice of fixed or easy-to-open split front windshields meet operator preference and application conditions.

- The fixed front windshield comes with high-impact resistant, laminated glass.
- The 70/30 split front windshield opens with the upper portion able to be stored out of the way above the operator. The lower front windshield features a rounded design to maximize downward visibility and improves wiper coverage. This windshield option also features the one-touch action release system.
- The roof of the cab provides an additional viewing pane by means of a skylight for added upward visibility. Direct sunlight is diverted with the retractable sunshield.



Monitor. The new compact color monitor displays information in the local language that is easy to read and understand. Functions include the following:

- Five programmable "quick access" buttons for one-touch selection of favorite functions.
- Filter and oil change warnings displayed when the number of hours reaches the maintenance interval.
- Tool select functionality, allowing the operator to select up to ten predefined hydraulic work tools.

- Travel motor retarder selection to choose between three levels of aggressiveness in braking once the travel pedal is released.
- Rear camera viewing capabilities from the optional camera mounted on the counterweight.

New Deluxe Seat. The new optional deluxe seat, equipped with an Active Seat Climate System, improves operator comfort. Cooled air flows through the seat cushions to reduce body perspiration. On cold days, a two-step seat heater keeps the operator warm and comfortable. The fully adjustable seat with adjustable lumbar support automatically takes into consideration the driver's weight, providing a more relaxed environment within the cab.

Heated Mirrors. Heated mirrors provide increased visibility in cold operating conditions as well as offering further safety considerations for those working around the machine.

Wipers. The parallel wiper system maximizes visibility in poor weather conditions. The wiper virtually covers the entire front windshield, cleaning the operator's immediate line of sight.

Lunch Box. A large, cooled storage compartment is located behind the operator's seat. The compartment provides sufficient room to store items such as a lunch box. An optional cover secures the contents during machine operation.

Foot Pedals. Two-way pedals for travel and auxiliary circuits provide increased floor space, reducing the need to change positions. The foot pedal for auxiliary high-pressure circuit can be locked in the off position and used as a footrest for greater operator comfort.

Elevated Cab

Fixed and hydraulic cab risers are available to maximize visibility in your material handling work.

Hydraulic Cab Riser. The Hydraulic Cab Riser (HCR) design provides the most suitable solution when high flexibility in cab height is needed. Main features of the hydraulic riser include the following:

- Stability The lift arms on the HCR are a wide and deep box-sectioned design with improved top and bottom links for greater cab stability. Further stability is achieved with the help of the retractable hydraulic cylinders used to raise the cab.
- Speed Two heavy-duty hydraulic cylinders provide quicker and more controlled up and down travel than seen in the C-Series.
- Comfort The parallelogram design of the linkage allows the cab to remain level at all ranges of motion. HCR movement is also slowed as the cab reaches the end of the riser stroke, eliminating the effects of a sudden start/stop.
- Safety In the event of a hydraulic malfunction, the cab can be lowered using either a lever inside the cab or one on the frame at ground level.

Fixed Cab Riser. The fixed cab riser offers a very stable and comfortable method to raise the cab by 1200 mm (47 in) to offer better viewing around the machine. Well, positioned steps lead up to the cab from the ground level. When shipping, the cab is unmounted to meet national road regulations. This option is only available for the M322D MH.



Bottom Position. The bottom position is used for shipping and travel, allowing for safer transporting



Top Position. The top position raises the cab by 2400 mm (94.5 in). This provides optimal viewing for all material handling jobs.

Undercarriage

Undercarriage and axle design provides maximum strength, flexibility and mobility on wheels.



Undercarriage Options. Effective hydraulic line routing, transmission protection and heavy-duty axles make Caterpillar's undercarriages perfect for material handler applications. The D-Series M322D MH comes with the option of three different undercarriages in order to provide the greatest stability while performing your material handler jobs.

- Material Handling A new, standard design for the D-Series, the Material Handling Undercarriage with four welded outriggers is ideal for the extra stability needed, especially when using a Hydraulic Cab Riser.
- Material Handling with Dozer Blade

 An optional expansion to the Material Handling Undercarriage described above with an additional Dozer Blade mounted ahead of the front stabilizers to be used to push material commonly encountered in waste and mill yard applications.
- Pin-On/Bolt-On An optional undercarriage, the pin-on/bolt-on option allows for different kinds of stabilizers to be attached to the front and rear of the machine.

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.

Advanced Disc Brake System. The disc brake system acts directly on the hub instead of the drive shaft to avoid planetary gear backlash. This solution eliminates the rocking effect associated with working free on wheels.

Drive Line Concept. The M322D MH Driveline design effectively utilizes the increases to engine torque and net power to provide a comfortable ride with improved smoothness, hydraulic retarding, and gear shifting commonly used during travel

Ground Clearance. A compact undercarriage design provides the M322D MH with optimum ground clearance during travel.

Booms and Sticks

Designed for maximum flexibility to keep production high on all jobs.



MH Booms and Sticks. The MH booms have been redesigned to handle increased lifting capacities. The new stick range offers leading side plates to maximize the protection of hydraulic lines. The lines

are fitted in between the two side plates offering protection from damage. Multiple boom and stick options allow you to pick the best match for your job.



MH Booms. A specially designed MH boom is available to meet the functionality requirements demanded in material handling applications. The boom arrangements include high pressure hydraulic lines for opening and closing functionality and medium pressure lines for implement rotation.

MH Sticks. Three options of MH sticks are available for the M322D MH, all equipped with high and medium pressure auxiliary lines. The 4900 mm (193 in) Drop Nose Stick offers the reaching and lifting capabilities required for typical MH applications, while the 5900 mm (232 in) Long Drop Nose Stick is ideal when maximum reach is necessary. The 4800 mm (189 in) Straight Stick is the best solution when additional work tool functionality is needed.

Special Applications. The M322D MH can be further outfitted with additional boom and stick options (see Optional Equipment), offering the ability to combine the material handler's hydraulic cab riser with traditional excavator functionality. This combination has been proven in transfer station, mining, and millyard applications.

Versatility

A wide variety of optional factory-installed attachments are available to enhance performance and improve jobsite management.

Tool Control. 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. Selecting the proper setting from the monitor menu instantly provides the operator with the correct amount of flow and pressure for the tool.

Orange Peel Grapple. The most common tool for material handling applications, this grapple is available in a range of sizes and provides a solution for a variety of material types. The grapple is free swinging and has unlimited left and right rotation.

Multi-Grapple. The Multi-Grapple with unlimited left and right rotation is the ideal tool for stripping, sorting, handling and loading. For the best control in forward and backward grapple mobility, pair the Multi-Grapple with the MH Straight Stick and linkage.



Joystick Steering. The unique joystick steering option enables an operator to reposition the machine while traveling in first gear by the use of the slider switch on the right joystick. This enables the operator to keep both hands on the joysticks while simultaneously moving the implements and traveling. The operator can do more precise work faster with increased safety around the machine.



Ride Control. New for the D Series, the ride control system improves operator comfort and allows the machine to travel faster over rough terrain with improved ride quality for the operator. The ride control system features accumulators acting as shock absorbers to dampen the front part motion. Ride control can be activated through a button located on the soft switch panel in the cab.

Control Settings. Two selectable control settings are available to choose from in order to get the best power output from the engine and hydraulics as well as maintain optimum fuel efficiency.

- Economy Mode for precise material handling and loading with the added benefit of reduced fuel consumption.
- Power Mode for applications requiring fast volume loading and material casting.

Automatic Travel Mode. Automatically engaged when the travel pedal is depressed this mode provides maximum speed, drawbar pull and best in class fuel efficiency.

Product Link. Product Link, now standard, can assist with fleet management to keep track of hours, location, security and product health.

Machine Security. An optional Machine Security System is available from the factory. This system controls who can operate the machine when, and utilizes specific keys to prevent unauthorized machine use.

Complete Customer Support

Cat dealer services help you operate longer with lower costs.



Product Support. You will find nearly all parts requirements at your local Caterpillar dealer parts counter. Cat dealers utilize a world-wide network to find in-stock parts to minimize your downtime. To save money use genuine Cat Reman parts. You will receive the same warranty and reliability as new products at a substantial cost savings.

Selection. Make detailed comparisons of the machines you are considering before you buy. How long do components last? What is the cost of preventive maintenance? Your Cat dealer can give you precise answers to these questions and more to make sure you operate your machines at the lowest cost and most effectively.

Purchase. Consider the financing options available as well as day-to-day operating costs. This is also the time to look at dealer services that can be included in the cost of the machine to yield lower equipment and owning and operating costs over the long run.

Operation. Improving operating techniques can boost your profits. Your Cat dealer has videotapes, literature and other ideas to help you increase productivity, and Caterpillar offers certified operator training classes to help maximize the return on your machine investment. Maintenance. More and more equipment buyers are planning for effective maintenance before buying equipment. Choose from your dealer's wide range of maintenance services at the time you purchase your machine. Repair option programs guarantee the cost of repairs up front. Diagnostic programs such as S•O•S[™] Fluid Analysis and Technical Analysis help you avoid unscheduled repairs.

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

Service Capability. Whether in the dealer's fully equipped shop or in the field, you will get highly trained service technicians using the latest technology and tools.

Services. Customer Service is critical today in every business. That's why so many people buy Cat equipment. They know they are getting quality, reliability and performance backed-up with the best Customer Service. Your Caterpillar dealer offers a wide range of services that can be set up under a Customer Support Agreement. The dealer will help you choose a plan that can cover the whole machine including work tools, to help you get the best out of your investment.

Environmentally Responsible Design

The M322D MH helps build a better world and preserve the fragile environment.

Fuel Efficiency. The D-Series Wheel Material Handlers are designed for outstanding performance with high fuel efficiency. This means more work done in a day, less fuel consumed and minimal impact on our environment.

Low Exhaust Emissions. The U.S. EPA Tier 3 compliant Cat C6.6 offers increased performance and reliability while reducing fuel consumption and exhaust emissions.

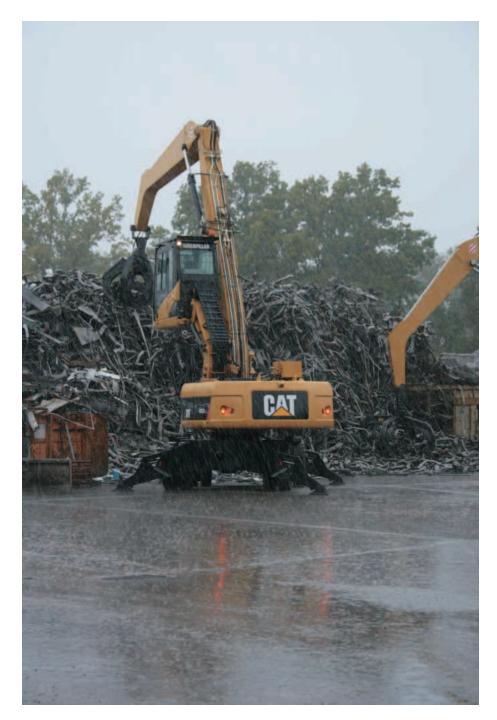
Quiet Operation. Operator and spectator noise levels are extremely low as a result of the new variable speed fan and remote cooling system.

Biodegradable Hydraulic Oil.

The optional biodegradable hydraulic oil, HEESTM, is formulated to provide excellent high-pressure and hightemperature characteristics, and is fully compatible with all hydraulic components. HEES is fully decomposed by soil and water microorganisms, providing a more environmentallysound alternative to mineral-based oils.

Fewer Leaks and Spills. Lubricant fillers and drains are designed to minimize spills. Cat O-Ring Face Seals, Cat XTTM Hose and hydraulic cylinders are all designed to help prevent fluid leaks that can reduce the machine performance and cause harm to the environment.

Longer Service Intervals. Working closely with your Caterpillar Dealer can help extend service intervals for engine oil, hydraulic oil, axle oil and coolant. Meaning fewer required fluids and fewer disposals, all adding up to lower operating costs.



Serviceability

Simplified and easy maintenance save you time and money.

Ground Level Maintenance. Caterpillar designed its D-Series Material Handlers with the operator and service technician in mind. Gull-wing doors, with pneumatically-assisted lift cylinders, effortlessly lift up to allow critical maintenance to be performed quickly and efficiently while maintaining operator safety.

Extended Service Intervals.

The D-Series Material Handlers service and maintenance intervals have been extended to reduce machine service time, increase machine availability and reduce operating costs. Using S•O•SSM Scheduled Oil Sampling analysis, hydraulic oil change intervals can be extended up to 4,000 hours. Engine coolant change intervals are 12,000 hours with Cat Extended Life Coolant.

Self-Monitoring System with Auto-

Diagnostics. The electronic engine and machine controllers provide detailed diagnostic capability for the service technicians. The ability to store active and intermittent indicators simplifies problem diagnosis and reduces total repair time, resulting in improved machine availability and lower operating cost.

Engine Inspection. The engine can be accessed from both ground level and the upper structure. The longitudinal layout ensures that all daily inspection items can be accessed easily.



Front Compartment. The front compartment hood can be opened vertically, providing outstanding ground level access to the batteries, air-to-air after cooler, air conditioner condenser and the air cleaner filter.



Easy to Clean Coolers. Flat fins on all coolers reduce clogging, making it easier to remove debris. The main cooling fan and air conditioner condenser are both hinged for easier cleaning.

Swing-out Air Conditioner Condenser.

The Air Conditioning condenser swings out horizontally to allow complete cleaning on both sides as well as excellent access to the air-to-air after cooler. **Air Filter.** Caterpillar air filters eliminate the use of service tools, reducing maintenance time. The air filter features a double-element construction with wall flow filtration in the main element and built-in mini-cyclone precleaners for superior cleaning efficiency. The air filters are constantly monitored for optimum performance. If airflow becomes restricted, a warning is displayed by the way of the in-cab monitor.

Capsule Filter. The hydraulic return filter, a capsule filter, prevents contaminants from entering the system when the hydraulic oil is changed

Fuel Filters. Cat high efficiency fuel filters with a Stay-Clean ValveTM features a special media that removes more than 98 percent of particles, increasing fuel injector life. Both the primary and secondary fuel filters are located in the engine compartment and can be easily changed from ground level.



New Auto-Lube System. The new Automatic Lubrication System provides the optimal amount of grease to all the main lubrication points. The configurable lubrication interval and system status messages can be accessed via the incab monitor. Scheduled Oil Sampling. Caterpillar has specially developed S•O•S[™] Oil Sampling Analysis to help ensure better performance, longer life and increased customer satisfaction. This thorough and reliable early warning system detects traces of metals, dirt and other contaminants in your engine, axle and hydraulic oil. It can predict potential trouble avoiding costly failures. Your Caterpillar dealer can give you results and specific recommendations shortly after receiving your sample.

Engine Oil. Caterpillar engine oil is formulated to optimize engine life and performance. The specially formulated oil is more cost effective and increases engine oil change interval to 500 hours, providing industry leading performance and savings.

Water Separator. The D Series is equipped with a primary fuel filter with water separator located in the engine compartment. For ease of service, the water separator can be easily accessed from ground level.

Fuel Tank Drain. The durable, corrosion-free tank has a remote drain located at the bottom of the upper frame to remove water and sediment. The tank drain with hose connection allows simple, spill-free fluid draining. **Remote Greasing Blocks.** For those hard to reach locations, greasing blocks have been provided to reduce maintenance time. One block is located in the engine compartment with two grease points for the swing bearing and front-end attachment. For the undercarriage, two remote blocks provide easy access for greasing the oscillating axle and, as an option, the dozer blade.



New LED Rear Lights. Optional Light Emitting Diode (LED) Rear Lights replace the standard lights, for increased visibility on the job site, higher durability and longer life.

Handrails and Steps. Large handrails and steps assist the operator in climbing on and off the machine safely.



Storage Boxes. There are two storage toolboxes integrated in the steps of the undercarriage. The fixed cab riser option provides an additional storage location with one integrated into the upper structure steps.



Anti-Skid Plate. The Anti-Skid Plates cover the top of the steps and upper structure to help prevent slipping during maintenance. They reduce the accumulation of debris on the upper structure, improving the cleanliness and safety of the machine.

Engine

Engine Model	Cat [®] C6.6 A	CERT™
Gross Power	129 kW	173 hp
Net Power	123 kW	165 hp
ISO 9249	123 kW	165 hp
EEC 80/1269	123 kW	165 hp
Bore	105 mm	4 in
Stroke	127 mm	5 in
Displacement	6.6 L	403 in ³
Max Torque at 1,400 rpm	750 N⋅m	553 ft-lb

• Maximum power at rated speed of 2,000 rpm

Hydraulic System

Maximum Pressure		
Implement Circuit		
Normal	35 000 kPa	5,076 psi
Heavy Lift	37 500 kPa	5,439 psi
Travel Circuit	35 000 kPa	5,076 psi
Auxiliary Circuit		
High Pressure	35 000 kPa	5,076 psi
Medium Pressure	20 000 kPa	2,900 psi
Swing Mechanism	34 000 kPa	4,931 psi
Maximum Flow		
Implement/Travel Circuit	350 L/min	92 gal/min
Auxiliary Circuit		
High Pressure	250 L/min	66 gal/min
Medium Pressure	50 L/min	13 gal/min
Swing Mechanism	112 L/min	30 gal/min

Weights

Operating weight	22 550 kg /5	1 010 lb)
operating weight	23 550 kg (51,919 lb) to 25 675 kg (56,604 lb)	
Material Handling Boom	10 20 070 kg	(00,00110)
MH undercarriage 4 welded	23 700 kg	52,250 lb
outriggers		,
MH undercarriage 4 welded	24 375 kg	53,738 lb
outriggers, push blade	-	
Rear dozer only	22 550 kg	49,714 lb
Rear dozer, front outriggers	23 750 kg	52,360 lb
Front and rear outriggers	24 100 kg	53,131 lb
VA Boom		
MH undercarriage 4 welded	24 050 kg	53,021 lb
outriggers		
MH undercarriage 4 welded	24 725 kg	54,509 lb
outriggers, push blade		
Rear dozer only	22 900 kg	50,486 lb
Rear dozer, front outriggers	24 100 kg	53,131 lb
Front and rear outriggers	24 450 kg	53,903 lb
One-Piece Boom		
MH undercarriage 4 welded	23 450 kg	51,698 lb
outriggers		
MH undercarriage 4 welded	24 125 kg	53,187 lb
outriggers, push blade		
Rear dozer only	22 300 kg	49,163 lb
Rear dozer, front outriggers	23 500 kg	51,809 lb
Front and rear outriggers	23 850 kg	52,580 lb
MH Push Blade	675 kg	1,488 lb
Dozer blade	920 kg	2,029 lb
Outriggers	1260 kg	2,778 lb
Counterweight	5400 kg	11,905 lb
4.8 m (15'8") MH Straight Stick	1100 kg	2,425 lb
4.9 m (16'1") MH Drop Nose Stick	910 kg	2,006 lb
5.9 m (19'4") MH Drop Nose Stick	1080 kg	2,381 lb
2.2 m (7'3") Digging Stick	650 kg	1,433 lb
2.5 m (8'3") Digging Stick	700 kg	1,543 lb
2.9 m (9'6") Digging Stick	780 kg	1,720 lb
	-	

Swing Mechanism

Swing Torque	56.3 kN·m	41,525 lb ft
Swing Speed	9 rpm	

Service Refill Capacities

Fuel Tank	385 L	101 gal
Cooling System	33 L	8.7 gal
Engine crankcase with filter	15 L	4 gal
Rear Axle	14.5 L	3.8 gal
Front Steering Axle	11 L	3 gal
Final Drive (each)	2.5 L	0.66 gal
Powershift Transmission	2.5 L	0.66 gal
Hydraulic Tank	220 L	58 gal
Hydraulic System (including tank)	335 L	88 gal

Transmission

Maximum travel speed	25 km/h	16 mph
1st Gear – Forward/Reverse	7 km/h	4.7 mph
2nd Gear – Forward/Reverse	25 km/h	16 mph
Creeper Speed (1st)	3 km/h	2 mph
Creeper Speed (2nd)	11 km/h	6.8 mph
Drawbar pull	121 kN	27,202 lb
Maximum Gradeability	52%	

Undercarriage

Ground clearance	380 mm	15 in
Maximum Steering Angle	35°	
Oscillating Axle Angle	± 6°	
Standard Axle Turning Radius		
Outside of Tire	6.8 m	22 ft
End of VA Boom	7.8 m	25 ft 6 in
End of One-Piece Boom	9.3 m	30 ft 6 in

Sound

Interior sound	72 db(A)
Exterior sound	103 db(A)
Performance	ANSI/SAE J1166 OCT 98

- When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 OCT 98, meets OSHA and MSHA requirements for operator sound exposure limits in effect at time of manufacture.
- Hearing protection may by needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in noisy environment.

Standards

Brakes	SAE J1026 APR 90
Cab/FOGS	ISO 10262

Dimensions with Standard Undercarriage

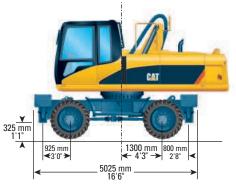
All dimensions are approximate.

			D		4	
2750 mm		← 3				
				D MH loom		D MH ce boom
			mm	ft/in	mm	ft/in
	1	Shipping height		Tym		14111
	•	2.2 m (7'3") Stick	3350	11'0"	3350	11'0"
CAT		2.5 m (8'2") Stick	3350	11'0"	3350	11'0"
Married Bar		2.9 m (9'6") Stick	3350	11'0"	3350	11'0"
	2	Shipping length	5550	110		110
BS A	-	2.2 m (7'3") Stick	9550	31'4"	9720	31'11"
		2.5 m (8'2") Stick	9550	31'4"	9720	31'11"
		2.9 m (9'6") Stick	9540	31'4"	9720	31'11"
→	3	Support point	20.0		2.20	
	3	2.2 m (7'3") Stick	4380	14'4"	4270	14'0''
		2.5 m (8'2") Stick	3830	12'7"	3810	12'6"
		2.9 m (9'6") Stick	3530	11'7"	3440	11'3"
	4	Tail swing radius	2820	9'3"	2820	9'3"
	5	Counterweight clearance	1310	4'4"	1310	4'4"
	6	Cab height			- •	
CAT		with hydraulic cab riser (lowered)	3240	10'8"	3240	10'8"
		with hydraulic cab riser (raised)	5640	18'6"	5640	18'6"
5		with 1200 mm (3'11") fixed cab riser	4440	14'7"	4440	14'7"
Very V	7	Stabilizer width on ground	3960	13'0"	3960	13'0"
	-	\mathcal{O}				

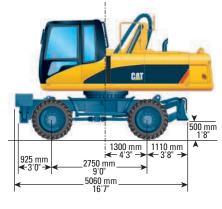


6

Undercarriage with 2 sets of outriggers

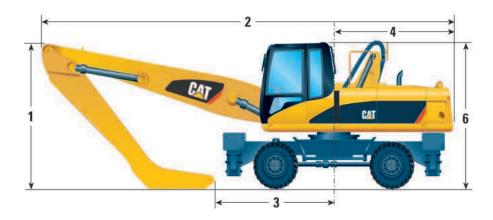


Undercarriage with 1 set of outriggers and dozer

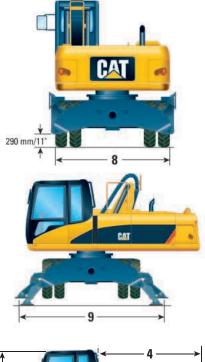


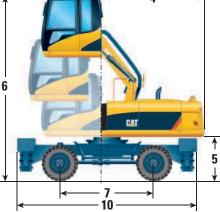
Dimensions with MH Undercarriage

All dimensions are approximate.



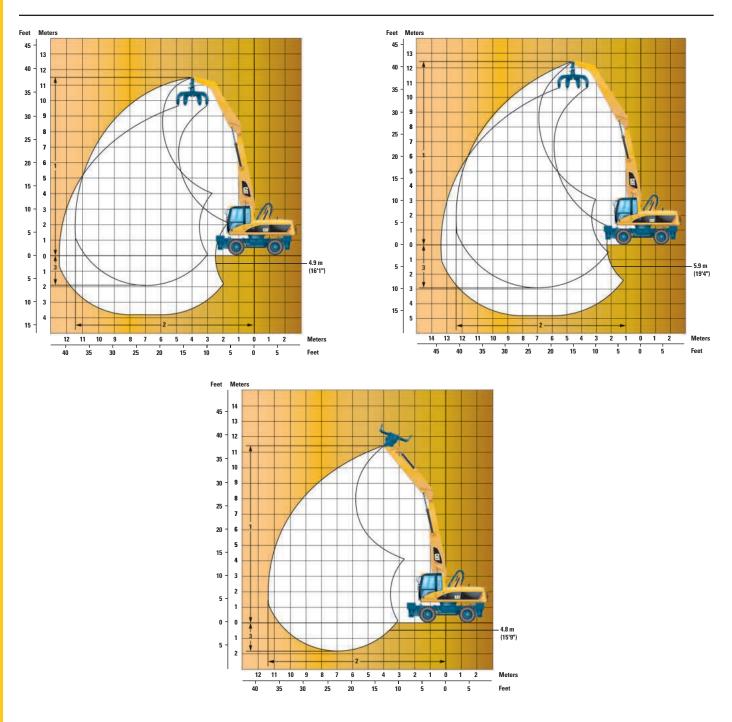
		M322D MH bo	
		mm	ft/in
1	Shipping height		
	4.8 m (15'9") straight stick	3410	11'2"
	4.9 m (16'1") drop nose	3410	11'2"
	5.9 m (19'4") drop nose	3350	11'0"
	5.9 m (19'4") drop nose removed	3350	11'0"
2	Shipping length		
	4.8 m (15'9") straight stick	9870	32'5"
	4.9 m (16'1") drop nose	9870	32'5"
	5.9 m (19'4") drop nose	15 130	49'8"
	5.9 m (19'4") drop nose removed	9930	32'7"
3	Support point		
	4.8 m (15'9") straight stick	3250	10'8"
	4.9 m (16'1") drop nose	3250	10'8"
	5.9 m (19'4") drop nose	15 010	49'3"
4	Tail swing radius	2820	9'3"
5	Counterweight clearance	1310	4'4"
6	Cab height		
	with hydraulic cab riser (lowered)	3240	10'8"
	with hydraulic cab riser (raised)	5640	18'6"
	with 1200 mm (3'11") fixed cab riser	4440	14'7"
7	Wheel base	2750	9'0"
8	Undercarriage width	2990	9'10"
9	Stabilizer width on ground	4360	14'4"
10	Undercarriage length	5250	17'3"







Working Ranges – M322D MH



Undercarriage	Material Handling	Material Handling	Material Handling
Boom Length	6.8 m (22'4")	6.8 m (22'4")	6.8 m (22'4")
Stick Length	MH drop nose 4.9 m (16'1")	MH drop nose 5.9 m (19'4")	MH straight stick 4.8 m (15'9")
Maximum Height	12 500 mm (41'0")	13 300 mm (43'8")	12 430 mm (40'10")
Minimum Dump Height	4030 mm (13'3")	3090 mm (10'2")	4120 mm (13'6")
1 Maximum Reach	11 530 mm (37'10")	12 480 mm (41'0")	11 430 mm (37'6")
2 Maximum Reach at Ground Level	10 850 mm (35'7")	12 050 mm (39'7")	11 280 mm (36'0")
3 Maximum Depth	1920 mm (6'4")	2920 mm (9'7")	1820 mm (6'0")

Load Point

Load at Maximum Reach Load Radius

Load Radius

STICK - 4.9 m (16'1") Drop Nose

UNDERCARRIAGE – Material Handling

BOOM - 6.8 m (22'4")

English Units/all weights are in Ib

	Undercarriage		15.	0 ft	20.	0 ft	25.	0 ft	30.	0 ft	35.	0 ft	Ş		1
Ž	configuration		ŀ	P	ŀ	P	IJ	P	G,	P	ľ	P			
35.0 ft	2 sets of stabilizers raised 2 sets of stabilizers lowered	lb Ib			15,322 *20,283	,		., .							
30.0 ft	2 sets of stabilizers raised 2 sets of stabilizers lowered	lb Ib			15,432 *20,503		.,	8,378 16,535							
25.0 ft	2 sets of stabilizers raised 2 sets of stabilizers lowered	lb Ib			15,432 *20,723	,		8,378 16,535	8,047 14,991	6,173 12,236			6,724 *12,015	5,071 10,251	32'10"
20.0 ft	2 sets of stabilizers raised 2 sets of stabilizers lowered	lb Ib			14,991 *21,495	1.		., .	8,047 14,881	6,173 12,236	., .	4,740 9,480		4,519 9,149	35'3"
15.0 ft	2 sets of stabilizers raised 2 sets of stabilizers lowered	lb Ib	22,597 *29,101		, .		.,	7,937 15,873	7,826 14,661	5,952 12,015	6,173 11,464	4,630 9,480		4,079 8,488	36'10"
10.0 ft	2 sets of stabilizers raised 2 sets of stabilizers lowered	lb Ib	20,834 *32,077	.,	.,	., .	9,921 19,070	7,496 15,432	7,606 14,330	., .	6,063 11,354	4,519 9,370		3,858 8,157	37'8"
5.0 ft	2 sets of stabilizers raised 2 sets of stabilizers lowered	lb Ib	19,290 *33,290	.,		9,480 20,944			7,275 14,110		5,842 11,244	4,409 9,149		3,858 8,047	37'10"
Ground	2 sets of stabilizers raised 2 sets of stabilizers lowered	lb Ib	18,188 *22,597		,				7,165 13,889		5,732 *11,133	4,299 9,039			
–5.0 ft	2 sets of stabilizers raised 2 sets of stabilizers lowered	lb Ib			11,905 *20,283	.,	8,818 *15,984	.,							

UNDERCARRIAGE - Material Handling

BOOM – 6.8 m (22'4")

STICK – 4.9 m (16'1") Drop Nose

Metric Units/all weights are in kg

	Undercarriage		4.5	ōm	6.0	m	7.5	m	9.0	m	10.	5 m	Ş		à
Ž	configuration		l.	P	IJ	F	ļ	P	ļ	P	ľ	F	ľ	P	
10.5 m	2 sets of stabilizers raised 2 sets of stabilizers lowered	kg kg			6950 *9200	5350 *9200	4800 *6350	3700 *6350							
9.0 m	2 sets of stabilizers raised 2 sets of stabilizers lowered	kg kg			7000 *9300	5450 *9300	4900 *8100	3800 7500							
7.5 m	2 sets of stabilizers raised 2 sets of stabilizers lowered	kg kg			7000 *9400	5400 *9400	4900 *8100	3800 7500	3650 6800	2800 5550			3050 *5450	2300 4650	10.02 m
6.0 m	2 sets of stabilizers raised 2 sets of stabilizers lowered	kg kg			6800 *9750	5250 *9750	4850 *8250	3700 7400	3650 6750	2800 5550	2800 5250	2150 4300	2700 5050	2050 4150	10.74 m
4.5 m	2 sets of stabilizers raised 2 sets of stabilizers lowered	kg kg	10 250 *13 200		6550 *10 300	5000 *10 300	4650 *8500	3600 7200	3550 6650	2700 5450	2800 5200	2100 4300	2500 4700	1850 3850	11.22 m
3.0 m	2 sets of stabilizers raised 2 sets of stabilizers lowered	kg kg	9450 *14 550		6200 *10 900	4650 9900	4500 8650	3400 7000	3450 6500	2600 5300	2750 5150	2050 4250	2400 4500	1750 3700	11.47 m
1.5 m	2 sets of stabilizers raised 2 sets of stabilizers lowered	kg kg	8750 *15 100		5800 *11 100	4300 9500	4300 8450	3200 6800	3300 6400	2500 5200	2650 5100	2000 4150	2350 4450	1750 3650	11.52 m
Ground	2 sets of stabilizers raised 2 sets of stabilizers lowered	kg kg	8250 *10 250	5900 *10 250		4050 9200	4100 8250	3050 6600	3250 6300	2400 5100	2600 *5050	1950 4100			
–1.5 m	2 sets of stabilizers raised 2 sets of stabilizers lowered	kg kg			5400 *9200	3950 9000	4000 *7250	2950 6500							

* Indicates the load is hydraulically limited.

• Lift capacity ratings are based on ISO 10567 standards.

- Rated loads do not exceed 87% of the hydraulic lifting capacity or 75% of tipping.

• All weights are calculated at stick nose and without work tool installed.

• Oscillating axle must be locked.

Load Point Height

Load at Maximum Reach Load Radius

Load Radius

UNDERCARRIAGE - Standard

BOOM - 6.8 m (22'4")

STICK – 4.9 m (16'1") Drop Nose

English Units/all weights are in Ib

	Undercarriage			0 ft	20.0) ft	25.	D ft	30.	D ft	35.	0 ft	Ş		2
<u>S</u>	configuration		ŀ	P	ß		ŀ		ß		ŀ		ß	P	
35.0 ft	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	lb lb lb lb			*20,283 15,543 *20,283 *20,283 *20,283	19,952 11,023 12,236 14,330 17,306	*13,999 10,692 *13,999 *13,999 *13,999	13,669 7,496 8,378 9,811 11,905							
30.0 ft	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	lb lb lb lb lb			*20,503 15,763 *20,503 *20,503 *20,503	20,172 11,133 12,456 14,551 17,527	*17,857 11,023 17,527 15,653 *17,857	13,999 7,826 8,708 10,141 12,236							
25.0 ft	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	lb lb lb lb			*20,723 15,653 *20,723 *20,723 *20,723	20,062 11,133 12,346 14,440 17,417	*17,857 10,913 17,527 15,653 *17,857	13,889 7,826 8,598 10,141 12,236	14,330 8,157 12,897 11,464 14,220	10,362 5,732 6,393 7,496 9,149			12,015 6,724 10,692 9,590 11,905	8,598 4,630 5,181 6,173 7,606	32'10"
20.0 ft	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	lb lb lb lb			*21,495 15,322 *21,495 *21,495 *21,495	19,621 10,803 12,015 14,110 17,086	*18,188 10,803 17,306 15,432 *18,188	13,779 7,606 8,488 9,921 12,015	14,330 8,047 12,787 11,464 14,220	10,251 5,622 6,283 7,385 9,039	11,133 6,283 9,921 8,818 11,023	8,047 4,299 4,850 5,732 7,055	10,692 5,952 9,590 8,488 10,582	7,716 4,079 4,630 5,512 6,724	35'3"
15.0 ft	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	lb lb lb lb	*29,101 23,149 *29,101 *29,101 *29,101	*29,101 15,763 17,747 21,164 26,125	*22,708 21,716	18,960 10,141 11,354 13,448 16,424	*18,739 10,472 16,976 14,991 *18,739	13,338 7,275 8,157 9,590 11,685	14,110 7,826 12,566 11,244 13,999	10,141 5,401 6,063 7,275 8,818	11,023 6,173 9,811 8,818 10,913	7,937 4,189 4,740 5,622 6,945	9,921 5,512 8,818 7,937 9,811	7,165 3,748 4,189 5,071 6,283	36'10"
10.0 ft	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	lb lb lb lb lb	*32,077 21,385 *32,077 *32,077 *32,077	28,881 14,220 16,094 19,511 24,251	23,810	18,078 9,480 10,692 12,677 15,543	18,409 10,031 16,424 14,551 18,188	12,897 6,834 7,716 9,149 11,244	13,779 7,606 12,346 10,913 13,669	9,811 5,181 5,842 6,945 8,598	10,913 6,063 9,700 8,708 10,803	7,826 4,079 4,630 5,512 6,834	9,480 5,291 8,488 7,496 9,480	6,834 3,527 3,968 4,740 5,952	37'8"
5.0 ft	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	lb lb lb lb	*33,290 19,731 *33,290 32,518 *33,290	27,007 12,677 14,551 17,857 22,597		17,196 8,708 9,921 11,905 14,771	17,857 9,590 15,873 13,999 17,747	12,456 6,393 7,275 8,708 10,803	13,558 7,385 12,015 10,692 13,448	9,590 4,960 5,622 6,724 8,378	10,692 5,952 9,590 8,488 10,692	7,716 3,968 4,519 5,401 6,724	9,370 5,181 8,378 7,385 9,259	6,724 3,417 3,858 4,740 5,842	37'10"
Ground	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	lb lb lb lb	*22,597 18,629 *22,597 *22,597 *22,597	*22,597 11,795 13,669 16,865 21,495	22,046 19,070	16,535 8,157 9,259 11,244 14,110	17,417 9,149 15,543 13,558 17,306	12,015 6,063 6,945 8,378 10,362	13,228 7,165 11,795 10,472 13,118	9,370 4,740 5,401 6,504 8,157	10,582 5,842 9,480 8,378 10,582	7,606 3,858 4,409 5,291 6,614			
–5.0 ft	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	lb lb lb lb			*20,283 12,125 *20,283 18,739 *20,283	16,204 7,826 9,039 10,913 13,779	*15,984 8,929 15,212 13,338 *15,984	11,795 5,842 6,724 8,157 10,141							

* Indicates the load is hydraulically limited.

• Lift capacity ratings are based on ISO 10567 standards.

• Rated loads do not exceed 87% of the hydraulic lifting capacity or 75% of tipping.

• All weights are calculated at stick nose and without work tool installed.

• Oscillating axle must be locked.

Load Point

Load at Maximum Reach Load Radius

Load Radius

UNDERCARRIAGE-Standard

BOOM - 6.8 m (22'4")

STICK – 4.9 m (16'1") Drop Nose

Metric Units/all weights are in kg

	Undercarriage			ōm	6.0	m	7.5	m	9.0	m	10.	5 m	9		
Ž_	configuration		Ę.	P	l	F	ß	P	ļ	P	ß	P	ß	P	
10.5 m	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	kg kg kg kg			*9200 7050 *9200 *9200 *9200	9050 5000 5550 6500 7850	*6350 4850 *6350 *6350 *6350	6200 3400 3800 4450 5400							
9.0 m	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	kg kg kg kg kg			*9300 7150 *9300 *9300 *9300	9150 5050 5650 6600 7950	*8100 5000 7950 7100 *8100	6350 3550 3950 4600 5550							
7.5 m	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	kg kg kg kg			*9400 7100 *9400 *9400 *9400	9100 5050 5600 6550 7900	*8100 4950 7950 7100 *8100	6300 3550 3900 4600 5550	6500 3700 5850 5200 6450	4700 2600 2900 3400 4150			5450 3050 4850 4350 5400	3900 2100 2350 2800 3450	10.02 m
6.0 m	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	kg kg kg kg			*9750 6950 *9750 *9750 *9750	8900 4900 5450 6400 7750	*8250 4900 7850 7000 *8250	6250 3450 3850 4500 5450	6500 3650 5800 5200 6450	4650 2550 2850 3350 4100	5050 2850 4500 4000 5000	3650 1950 2200 2600 3200	4850 2700 4350 3850 4800	3500 1850 2100 2500 3050	10.74 m
4.5 m	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	kg kg kg kg	*13 200 10 500 *13 200 *13 200 *13 200	*13 200 7150 8050 9600 11 850	6650 *10 300 9850	8600 4600 5150 6100 7450	*8500 4750 7700 6800 *8500	6050 3300 3700 4350 5300	6400 3550 5700 5100 6350	4600 2450 2750 3300 4000	5000 2800 4450 4000 4950	3600 1900 2150 2550 3150	4500 2500 4000 3600 4450	3250 1700 1900 2300 2850	11.22 m
3.0 m	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	kg kg kg kg kg	*14 550 9700 *14 550 *14 550 *14 550	13 100 6450 7300 8850 11 000	*10 900 6300 10 800 9400 *10 900	8200 4300 4850 5750 7050	8350 4550 7450 6600 8250	5850 3100 3500 4150 5100	6250 3450 5600 4950 6200	4450 2350 2650 3150 3900	4950 2750 4400 3950 4900	3550 1850 2100 2500 3100	4300 2400 3850 3400 4300	3100 1600 1800 2150 2700	11.47 m
1.5 m	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	kg kg kg kg kg	*15 100 8950 *15 100 14 750 *15 100	12 250 5750 6600 8100 10 250	5900 10 350 9000	7800 3950 4500 5400 6700	8100 4350 7200 6350 8050	5650 2900 3300 3950 4900	6150 3350 5450 4850 6100	4350 2250 2550 3050 3800	4850 2700 4350 3850 4850	3500 1800 2050 2450 3050	4250 2350 3800 3350 4200	3050 1550 1750 2150 2650	11.52 m
Ground	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	kg kg kg kg kg	*10 250 8450 *10 250 *10 250 *10 250	*10 250 5350 6200 7650 9750	5650 10 000 8650	7500 3700 4200 5100 6400	7900 4150 7050 6150 7850	5450 2750 3150 3800 4700	6000 3250 5350 4750 5950	4250 2150 2450 2950 3700	4800 2650 4300 3800 4800	3450 1750 2000 2400 3000			
–1.5 m	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	kg kg kg kg kg			*9200 5500 *9200 8500 *9200	7350 3550 4100 4950 6250	*7250 4050 6900 6050 *7250	5350 2650 3050 3700 4600							

* Indicates the load is hydraulically limited.

• Lift capacity ratings are based on ISO 10567 standards.

• Rated loads do not exceed 87% of the hydraulic lifting capacity or 75% of tipping.

• All weights are calculated at stick nose and without work tool installed.

• Oscillating axle must be locked.

Load Point

Load at Maximum Reach Load Radius

Load Radius

UNDERCARRIAGE - Standard

BOOM – 6.8 m (22'4")

STICK - 5.9 m (19'4") Drop Nose

English Units/all weights are in Ib

	Undercarriage		10.	Dft	15.	0 ft	20.	D ft	25.0) ft	30.	D ft	35.	0 ft	40.0) ft	ŝ		
Z	configuration		R,	P	Q,	s	Q,	P	Q,	P	Ū,	C -	C.	P	ũ,	c 🗣	Ū,	P	
40.0 ft	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	lb lb lb lb	0				*16,424 15,653 *16,424 *16,424 *16,424	*16,424 11,133 12,346 14,440 *16,424			0								
35.0 ft	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	lb lb lb lb lb							*15,984 11,133 *15,984 15,873 *15,984	14,220 7,937 8,818 10,362 12,456									
30.0 ft	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	lb lb lb lb lb							*16,535 11,354 *16,535 16,094 *16,535	14,330 8,157 9,039 10,472 12,566	14,661 8,378 13,118 11,795 14,551	10,582 5,842 6,504 7,716 9,259							
25.0 ft	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	lb lb lb lb lb							*16,645 11,244 *16,645 15,984 *16,645	14,330 8,047 8,929 10,472 12,566	14,661 8,378 13,228 11,795 14,551	10,582 5,842 6,504 7,716 9,259	11,244 6,393 10,141 9,039 11,244	8,157 4,409 4,960 5,842 7,165			*9,700 5,732 9,149 8,157 *9,700	7,385 3,858 4,409 5,181 6,393	36'5"
20.0 ft	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	lb lb lb lb							*17,086 11,023 *17,086 15,763 *17,086	14,110 7,826 8,708 10,251 12,346	14,551 8,267 13,007 11,574 14,440	10,472 5,732 6,393 7,606 9,149	11,244 6,283 10,031 9,039 11,133	8,157 4,299 4,850 5,842 7,055			9,259 5,181 8,267 7,385 9,149	6,614 3,417 3,858 4,630 5,842	38'8"
15.0 ft	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	lb lb lb lb lb					*21,054 15,212 *21,054 *21,054 *21,054	19,621 10,692 11,905 13,999 16,976	*17,747 10,692 17,306 15,322 *17,747	13,669 7,496 8,378 9,811 11,905	14,220 8,047 12,787 11,354 14,110	10,251 5,512 6,173 7,385 8,929	11,133 6,173 9,921 8,818 11,023	8,047 4,189 4,740 5,622 6,945	8,929 4,960 7,937 7,055 8,818	6,393 3,307 3,748 4,519 5,622	8,708 4,740 7,716 6,945 8,598	6,283 3,197 3,638 4,299 5,401	40'0"
10.0 ft	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	lb lb lb lb lb			*29,652 22,487 *29,652 *29,652 *29,652	*29,652 15,212 17,196 20,613 25,463	14,330 *22,708 21,275	18,629 9,811 11,023 13,118 16,094	*18,519 10,141 16,645 14,771 18,519	13,118 7,055 7,826 9,370 11,464	13,889 7,716 12,456 11,023 13,779	9,921 5,291 5,952 7,055 8,598	10,913 6,063 9,700 8,708 10,803	7,826 4,079 4,630 5,512 6,834	8,818 4,850 7,937 7,055 8,818	6,283 3,197 3,638 4,409 5,512	8,378 4,519 7,496 6,614 8,267	5,952 2,976 3,417 4,189 5,181	40'9"
5.0 ft	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	lb lb lb lb lb			*32,518 20,503 *32,518 *32,518 *32,518	27,888 13,338 15,322 18,629 23,369	23,259	17,527 8,929 10,141 12,125 15,102	17,968 9,590 16,094 14,110 17,857	12,566 6,504 7,385 8,818 10,913	13,558 7,385 12,125 10,692 13,448	9,590 4,960 5,622 6,724 8,378	10,692 5,842 9,590 8,488 10,582	7,606 3,858 4,409 5,291 6,614	8,708 4,740 7,826 6,945 8,708	6,283 3,086 3,527 4,299 5,401	8,267 4,519 7,385 6,504 8,157	5,842 2,866 3,307 4,079 5,071	40'11"
Ground	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	lb lb lb lb lb	*8,929 *8,929 *8,929 *8,929 *8,929 *8,929	*8,929 *8,929 *8,929 *8,929 *8,929 *8,929	*32,518 18,850 *32,518 31,526 *32,518	26,125 12,015 13,779 16,976 21,716	12,456 22,156 19,180	16,645 8,157 9,370 11,354 14,220	17,417 9,149 15,543 13,669 17,306	12,015 6,063 6,945 8,378 10,362	13,228 7,055 11,795 10,362 13,118	9,259 4,630 5,291 6,393 8,047	10,472 5,732 9,370 8,267 10,472	7,496 3,748 4,299 5,181 6,504	8,708 4,740 7,716 6,834 8,598	6,173 2,976 3,527 4,189 5,291			
–5.0 ft	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	lb Ib Ib Ib			*23,038 17,968 *23,038 *23,038 *23,038	*23,038 11,244 13,007 16,204 20,834	11,905 21,495 18,629	16,094 7,716 8,818 10,803 13,669	17,086 8,818 15,102 13,228 16,865	11,685 5,732 6,614 7,937 10,031	13,007 6,834 11,574 10,141 12,897	9,039 4,519 5,181 6,173 7,826	10,362 5,622 9,259 8,157 10,251	7,275 3,638 4,189 5,071 6,283					

* Indicates the load is hydraulically limited.

• Lift capacity ratings are based on ISO 10567 standards.

• Rated loads do not exceed 87% of the hydraulic lifting capacity or 75% of tipping.

• All weights are calculated at stick nose and without work tool installed.

• Oscillating axle must be locked.

Load Point

Load at Maximum Reach Load Radius

Load Radius

UNDERCARRIAGE – Standard

BOOM - 6.8 m (22'4")

STICK – 5.9 m (19'4") Drop Nose

Metric Units/all weights are in kg

	Lindonoomio		3.0	m	4.5	m	6.0	m	7.5	m	9.0	m	10.5	5 m	12.0	Dm	4		
Ž_	Undercarriage configuration		Ū.			P		P	ß	c 🗣	Q.	P	Ū,	P	Ø	C 🗣	Ū,	(P	
12.0 m	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered	kg kg kg					*7450 7100 *7450 *7450	*7450 5050 5600 6550									0		
10.5 m	F. stabilizer & r. dozer lowered 2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	kg kg kg kg kg					*7450	*7450	*7250 5050 *7250 7200 *7250	6450 3600 4000 4700 5650									
9.0 m	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	kg kg kg kg kg							*7500 5150 *7500 7300 *7500	6500 3700 4100 4750 5700	6650 3800 5950 5350 6600	4800 2650 2950 3500 4200							
7.5 m	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	kg kg kg kg							*7550 5100 *7550 7250 *7550	6500 3650 4050 4750 5700	6650 3800 6000 5350 6600	4800 2650 2950 3500 4200	5100 2900 4600 4100 5100	3700 2000 2250 2650 3250			*4400 2600 4150 3700 *4400	3350 1750 2000 2350 2900	11.11
6.0 m	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	kg kg kg kg							*7750 5000 *7750 7150 *7750	6400 3550 3950 4650 5600	6600 3750 5900 5250 6550	4750 2600 2900 3450 4150	5100 2850 4550 4100 5050	3700 1950 2200 2650 3200			4200 2350 3750 3350 4150	3000 1550 1750 2100 2650	
4.5 m	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	kg kg kg kg kg					*9550 6900 *9550 *9550 *9550	8900 4850 5400 6350 7700	*8050 4850 7850 6950 *8050	6200 3400 3800 4450 5400	6450 3650 5800 5150 6400	4650 2500 2800 3350 4050	5050 2800 4500 4000 5000	3650 1900 2150 2550 3150	4050 2250 3600 3200 4000	2900 1500 1700 2050 2550	3950 2150 3500 3150 3900	2850 1450 1650 1950 2450	12.20
3.0 m	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	kg kg kg kg kg			*13 450 10 200 *13 450 *13 450 *13 450	*13 450 6900 7800 9350 11 550	*10 300 6500 *10 300 9650 *10 300	8450 4450 5000 5950 7300	*8400 4600 7550 6700 8400	5950 3200 3550 4250 5200	6300 3500 5650 5000 6250	4500 2400 2700 3200 3900	4950 2750 4400 3950 4900	3550 1850 2100 2500 3100	4000 2200 3600 3200 4000	2850 1450 1650 2000 2500	3800 2050 3400 3000 3750	2700 1350 1550 1900 2350	12.43
1.5 m	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	kg kg kg kg			*14 750 9300 *14 750 *14 750 *14 750	12 650 6050 6950 8450 10 600	*10 850 6050 10 550 9150 *10 850	7950 4050 4600 5500 6850	8150 4350 7300 6400 8100	5700 2950 3350 4000 4950	6150 3350 5500 4850 6100	4350 2250 2550 3050 3800	4850 2650 4350 3850 4800	3450 1750 2000 2400 3000	3950 2150 3550 3150 3950	2850 1400 1600 1950 2450	3750 2050 3350 2950 3700	2650 1300 1500 1850 2300	12.48
Ground	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	kg kg kg kg	*4050 *4050 *4050 *4050 *4050	*4050 *4050 *4050 *4050 *4050	14 300	11 850 5450 6250 7700 9850	*10 850 5650 10 050 8700 *10 850	7550 3700 4250 5150 6450	7900 4150 7050 6200 7850	5450 2750 3150 3800 4700	6000 3200 5350 4700 5950	4200 2100 2400 2900 3650	4750 2600 4250 3750 4750	3400 1700 1950 2350 2950	3950 2150 3500 3100 3900	2800 1350 1600 1900 2400			
–1.5 m	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	kg kg kg kg			*10 450 8150 *10 450 *10 450 *10 450	*10 450 5100 5900 7350 9450	*10 050 5400 9750 8450 *10 050	7300 3500 4000 4900 6200	7750 4000 6850 6000 7650	5300 2600 3000 3600 4550	5900 3100 5250 4600 5850	4100 2050 2350 2800 3550	4700 2550 4200 3700 4650	3300 1650 1900 2300 2850					

* Indicates the load is hydraulically limited.

• Lift capacity ratings are based on ISO 10567 standards.

• Rated loads do not exceed 87% of the hydraulic lifting capacity or 75% of tipping.

• All weights are calculated at stick nose and without work tool installed.

• Oscillating axle must be locked.

Load Point Height

Load at Maximum Reach Load Radius

Load Radius

UNDERCARRIAGE - Standard

BOOM - 6.8 m (22'4")

STICK - 4.8 m (15'9") Straight

English Units/all weights are in Ib

	Undercarriage		15.	0 ft	20.0	D ft	25.	Dft	30.	D ft	35.	D ft	ŝ		2
Ž	configuration		ĘŊ,	P	P.	F	F.	P	ß	P	ß	C Pa	ß	C P	
35.0 ft	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	lb lb lb lb lb			*20,172 15,322 *20,172 *20,172 *20,172	19,731 10,803 12,015 14,110 17,086									
30.0 ft	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	lb lb lb lb			*20,503 15,543 *20,503 *20,503 *20,503	19,952 11,023 12,236 14,330 17,306	10,803 17,417 15,432	13,779 7,496 8,378 9,921 12,015							
25.0 ft	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	lb lb lb lb lb			*20,613 15,432 *20,613 *20,613 *20,613	19,842 10,913 12,125 14,220 17,196	10,692 17,306 15,432	13,669 7,496 8,378 9,921 12,015	14,110 7,937 12,677 11,244 13,999	10,141 5,401 6,173 7,275 8,818			12,015 6,614 10,692 9,480 11,905	8,598 4,519 5,071 6,063 7,496	32'6"
20.0 ft	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	lb lb lb lb			*21,385 14,991 *21,385 *21,385 *21,385	19,401 10,472 11,795 13,889 16,865	17,086 15,102	13,448 7,385 8,157 9,700 11,795	13,999 7,826 12,566 11,133 13,889	10,031 5,401 6,063 7,165 8,818	10,803 5,952 9,700 8,598 10,803	7,716 3,968 4,519 5,401 6,724	10,582 5,842 9,480 8,378 10,472	7,606 3,858 4,409 5,291 6,614	34'11"
15.0 ft	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	lb lb lb lb lb	*28,991 22,818 *28,991 *28,991 *28,991	*28,991 15,432 17,417 20,834 25,794	*22,597 21,385	18,739 9,921 11,133 13,228 16,094	10,141 16,645 14,771	13,118 6,945 7,826 9,259 11,354	13,779 7,606 12,346 11,023 13,669	9,811 5,181 5,842 6,945 8,598	10,803 5,952 9,590 8,488 10,692	7,716 3,968 4,519 5,401 6,724	9,811 5,401 8,708 7,716 9,700	6,945 3,527 3,968 4,850 6,063	36'6"
10.0 ft	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	lb lb lb lb lb	*31,857 20,944 *31,857 *31,857 *31,857	28,440 13,779 15,763 19,070 23,810	20,393	17,747 9,149 10,362 12,346 15,212	18,078 9,700 16,094 14,220	12,566 6,504 7,385 8,818 10,913	13,558 7,385 12,125 10,692 13,448	9,590 4,960 5,622 6,724 8,267	10,692 5,842 9,480 8,378 10,582	7,606 3,858 4,409 5,291 6,504	9,370 5,071 8,378 7,385 9,259	6,614 3,307 3,748 4,630 5,732	37'4"
5.0 ft	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	lb lb lb lb lb	*32,739 19,180 *32,739 31,967 *32,739	26,455 12,236 14,110 17,306 22,046	12,677 22,377 19,401	16,865 8,378 9,480 11,464 14,330	9,259 15,653 13,669	12,125 6,173 6,945 8,378 10,472	13,228 7,055 11,795 10,362 13,118	9,259 4,740 5,401 6,393 8,047	10,472 5,622 9,370 8,267 10,362	7,385 3,638 4,189 5,071 6,393	9,259 4,960 8,157 7,275 9,149	6,504 3,197 3,748 4,519 5,622	37'6"
Ground	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	lb lb lb lb	*21,826 18,078 *21,826 *21,826 *21,826	11,244 13,118 16,314	18,739	16,204 7,716 8,929 10,913 13,779	8,818 15,212 13,228	11,685 5,732 6,614 8,047 10,031	13,007 6,834 11,574 10,141 12,897	9,039 4,519 5,181 6,283 7,826	10,362 5,512 9,149 8,157 10,251	7,275 3,527 4,079 4,960 6,283			
-5.0 ft	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	lb lb lb lb			*19,511 11,685 *19,511 18,298 *19,511	15,763 7,496 8,598 10,582 13,338	8,598 14,881 13,007	11,464 5,512 6,393 7,826 9,811							

* Indicates the load is hydraulically limited.

• Lift capacity ratings are based on ISO 10567 standards.

• Rated loads do not exceed 87% of the hydraulic lifting capacity or 75% of tipping.

• All weights are calculated at stick nose and without work tool installed.

• Oscillating axle must be locked.

Load Point

Load at Maximum Reach Load Radius

Load Radius

UNDERCARRIAGE – Standard

BOOM - 6.8 m (22'4")

STICK – 4.8 m (15'9") Straight

Metric Units/all weights are in kg

	Undercarriage		4.5	im	6.0	m	7.5	im	9.0	m		5 m	9		
Ž_	configuration		Ę.	G-	ß	P	Ţ,	P	ľ	P	ß	P	ß	C P	
10.5 m	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	kg kg kg kg			*9150 6950 *9150 *9150 *9150	8950 4900 5450 6400 7750									
9.0 m	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	kg kg kg kg			*9300 7050 *9300 *9300 *9300	9050 5000 5550 6500 7850	*8050 4900 7900 7000 *8050	6250 3400 3800 4500 5450							
7.5 m	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	kg kg kg kg			*9350 7000 *9350 *9350 *9350	9000 4950 5500 6450 7800	*8000 4850 7850 7000 *8000	6200 3400 3800 4500 5450	6400 3600 5750 5100 6350	4600 2450 2800 3300 4000			5450 3000 4850 4300 5400	3900 2050 2300 2750 3400	
6.0 m	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	kg kg kg kg			*9700 6800 *9700 *9700 *9700	8800 4750 5350 6300 7650	*8150 4750 7750 6850 *8150	6100 3350 3700 4400 5350	6350 3550 5700 5050 6300	4550 2450 2750 3250 4000	4900 2700 4400 3900 4900	3500 1800 2050 2450 3050	4800 2650 4300 3800 4750	3450 1750 2000 2400 3000	
4.5 m	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	kg kg kg kg	*13 150 10 350 *13 150 *13 150 *13 150	*13 150 7000 7900 9450 11 700	6500 *10 250 9700	8500 4500 5050 6000 7300	*8400 4600 7550 6700 8400	5950 3150 3550 4200 5150	6250 3450 5600 5000 6200	4450 2350 2650 3150 3900	4900 2700 4350 3850 4850	3500 1800 2050 2450 3050	4450 2450 3950 3500 4400	3150 1600 1800 2200 2750	
3.0 m	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	kg kg kg kg	*14 450 9500 *14 450 *14 450 *14 450	12 900 6250 7150 8650 10 800	6150 10 650 9250	8050 4150 4700 5600 6900	8200 4400 7300 6450 8150	5700 2950 3350 4000 4950	6150 3350 5500 4850 6100	4350 2250 2550 3050 3750	4850 2650 4300 3800 4800	3450 1750 2000 2400 2950	4250 2300 3800 3350 4200	3000 1500 1700 2100 2600	
1.5 m	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	kg kg kg kg	*14 850 8700 *14 850 14 500 *14 850	12 000 5550 6400 7850 10 000	5750 10 150 8800	7650 3800 4300 5200 6500	7950 4200 7100 6200 7900	5500 2800 3150 3800 4750	6000 3200 5350 4700 5950	4200 2150 2450 2900 3650	4750 2550 4250 3750 4700	3350 1650 1900 2300 2900	4200 2250 3700 3300 4150	2950 1450 1700 2050 2550	
Ground	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	kg kg kg kg	*9900 8200 *9900 *9900 *9900	*9900 5100 5950 7400 9500	5450 9800 8500	7350 3500 4050 4950 6250	7750 4000 6900 6000 7700	5300 2600 3000 3650 4550	5900 3100 5250 4600 5850	4100 2050 2350 2850 3550	4700 2500 4150 3700 4650	3300 1600 1850 2250 2850			
–1.5 m	2 sets of stabilizers lowered Rear dozer raised Rear dozer lowered Rear stabilizer lowered F. stabilizer & r. dozer lowered	kg kg kg kg			*8850 5300 *8850 8300 *8850	7150 3400 3900 4800 6050	*7000 3900 6750 5900 *7000	5200 2500 2900 3550 4450							

* Indicates the load is hydraulically limited.

• Lift capacity ratings are based on ISO 10567 standards.

• Rated loads do not exceed 87% of the hydraulic lifting capacity or 75% of tipping.

• All weights are calculated at stick nose and without work tool installed.

• Oscillating axle must be locked.

Load Point Height

Load at Maximum Reach Load Radius

Load Radius

UNDERCARRIAGE – Material Handling

BOOM - 6.8 m (22'4")

STICK – 4.8 m (15'9") Straight

English Units/all weights are in Ib

	Undercarriage		15.	0 ft	20.	0 ft	25.	0 ft	30.	D ft	35.	0 ft	÷		2
Ž	configuration		ŀ	P	ľ	P	ļ	P	Ŀ	P	ŀ	P	ľ	P	
35.0 ft	2 sets of stabilizers raised 2 sets of stabilizers lowered	lb Ib			15,102 *20,172	11,574 *20,172									
30.0 ft	2 sets of stabilizers raised 2 sets of stabilizers lowered	lb Ib			15,322 *20,503	11,795 *20,503	10,582 *17,747	8,157 16,314							
25.0 ft	2 sets of stabilizers raised 2 sets of stabilizers lowered	lb Ib			15,212 *20,613	11,685 *20,613	10,582 *17,637	8,157 16,314	7,826 14,771	5,952 12,015			6,614 *12,125	4,960 10,251	32'6"
20.0 ft	2 sets of stabilizers raised 2 sets of stabilizers lowered	lb Ib			14,771 *21,385	11,354 *21,385	10,362 *17,968	7,937 16,094	7,716 14,661	5,842 11,905	.,	4,409 9,259	5,842 11,133	4,299 9,039	34'11"
15.0 ft	2 sets of stabilizers raised 2 sets of stabilizers lowered	lb Ib	22,267 *28,991	16,645 *28,991	14,110 *22,597	10,692 22,487	10,031 *18,519	7,606 15,653	7,496 14,440	5,732 11,795	.,.	4,409 9,149	5,291 10,251	3,968 8,378	36'6"
10.0 ft	2 sets of stabilizers raised 2 sets of stabilizers lowered	lb Ib	20,503 *31,857	14,991 *31,857	13,338 *23,700	9,921 21,495	9,590 18,850	,	7,275 14,110	5,401 11,464	5,732 11,133	4,299 9,039	5,071 9,811	3,748 8,047	37'4"
5.0 ft	2 sets of stabilizers raised 2 sets of stabilizers lowered	lb Ib	18,739 *32,739	13,448 *32,739	,	., .	9,149 18,298	- /	7,055 13,779	5,181 11,133	5,622 11,023	4,079 8,929	4,960 *9,590		37'6"
Ground	2 sets of stabilizers raised 2 sets of stabilizers lowered	lb Ib	17,637 *21,826	12,456 *21,826		8,598 19,842	8,708 *17,747	6,393 14,220	6,834 13,558	4,960 10,913		3,968 8,818			
–5.0 ft	2 sets of stabilizers raised 2 sets of stabilizers lowered	lb Ib			11,464 *19,511	8,267 19,511	8,488 *15,432	6,173 13,999							

UNDERCARRIAGE - Material Handling

BOOM – 6.8 m (22'4")

STICK – 4.8 m (15'9") Straight

Metric Units/all weights are in kg

	Undercarriage		4.5	ōm	6.0	m	7.5	im	9.0	m	10.	5 m	Ş		a
Ž	configuration		Ľ	F	ŀ	P	1	P	1	P	ľ		Ŀ	P	
10.5 m	2 sets of stabilizers raised 2 sets of stabilizers lowered	kg kg			6850 *9150	5250 *9150									
9.0 m	2 sets of stabilizers raised 2 sets of stabilizers lowered	kg kg			6950 *9300	5350 *9300	4800 *8050	3700 7400							
7.5 m	2 sets of stabilizers raised 2 sets of stabilizers lowered	kg kg			6900 *9350	5300 *9350	4800 *8000	3700 7400	3550 6700	2700 5450			3000 *5500	2250 4650	9.91 m
6.0 m	2 sets of stabilizers raised 2 sets of stabilizers lowered	kg kg			6700 *9700	5150 *9700	4700 *8150		3500 6650	2650 5400	2700 5150	2000 4200	2650 5050	1950 4100	
4.5 m	2 sets of stabilizers raised 2 sets of stabilizers lowered	kg kg	10 100 *13 150	7550 *13 150		4850 10 200	4550 *8400		3400 6550	2600 5350	2650 5100	2000 4150	2400 4650	1800 3800	
3.0 m	2 sets of stabilizers raised 2 sets of stabilizers lowered	kg kg	9300 *14 450	6800 *14 450		4500 9750	4350 8550	3250 6850	3300 6400	2450 5200	2600 5050	1950 4100	2300 4450	1700 3650	
1.5 m	2 sets of stabilizers raised 2 sets of stabilizers lowered	kg kg	8500 *14 850	6100 *14 850		4150 9350	4150 8300		3200 6250	2350 5050	2550 5000	1850 4050	2250 *4350	1650 3600	
Ground	2 sets of stabilizers raised 2 sets of stabilizers lowered	kg kg	8000 *9900			3900 9000	3950 *8050	2900 6450	3100 6150	2250 4950	2500 *4800	1800 4000			
–1.5 m	2 sets of stabilizers raised 2 sets of stabilizers lowered	kg kg			5200 *8850	3750 8850	3850 *7000	2800 6350							

* Indicates the load is hydraulically limited.

• Lift capacity ratings are based on ISO 10567 standards.

- Rated loads do not exceed 87% of the hydraulic lifting capacity or 75% of tipping.

• All weights are calculated at stick nose and without work tool installed.

• Oscillating axle must be locked.

UNDERCARRIAGE - Material Handling

Load Point

Load at Maximum Reach Load Radius

Load Radius

BOOM – 6.8 m (22'4")

STICK – 5.9 m (19'4") Drop Nose

English Units/all weights are in lb

	Undercarriage		10.	0 ft	15.	0 ft	20.	0 ft	25.	0 ft	30.	0 ft	35.0	Dft	40.) ft	ŝ		
Ž	configuration		ŀ	P	ľ		L,	P	ľ		ľ	P	ľ	P	ľ	P	ľ	P	
40.0 ft	2 sets of stabilizers raised 2 sets of stabilizers lowered	lb Ib					15,432 *16,424	11,905 *16,424											
35.0 ft	2 sets of stabilizers raised 2 sets of stabilizers lowered	lb Ib							11,023 *15,984	8,598 *15,984									
30.0 ft	2 sets of stabilizers raised 2 sets of stabilizers lowered	lb Ib							11,244 *16,535	8,708 *16,535	8,267 *14,881	6,393 12,566							
25.0 ft	2 sets of stabilizers raised 2 sets of stabilizers lowered	lb Ib							11,133 *16,645	8,708 *16,645	8,267 *14,771	6,393 12,566	6,283 11,795	4,850 9,700			5,732 *9,700	4,299 8,818	36'5"
20.0 ft	2 sets of stabilizers raised 2 sets of stabilizers lowered	lb Ib							10,913 *17,086	8,488 16,645		6,283 12,346	6,283 11,685	4,740 9,700			5,071 *9,590	3,858 7,937	38'8"
15.0 ft	2 sets of stabilizers raised 2 sets of stabilizers lowered	lb Ib					14,991 *21,054	11,464 *21,054	10,582 *17,747	8,157 16,204	7,937 14,771	6,063 12,125	6,173 11,574	4,630 9,480	4,850 9,370	3,638 7,716	4,740 9,149	3,527 7,496	40'0"
10.0 ft	2 sets of stabilizers raised 2 sets of stabilizers lowered	lb Ib			21,936 *29,652	16,314 *29,652	'	10,692 22,377	10,031 *18,519	7,606 15,653		5,732 11,795	5,952 11,354	4,519 9,370	4,850 9,259	3,527 7,606	4,519 8,818	3,307 7,165	40'9"
5.0 ft	2 sets of stabilizers raised 2 sets of stabilizers lowered	lb Ib			19,952 *32,518	14,551 *32,518	13,118 *23,920	9,811 21,275	9,480 18,739	7,165 15,102		5,512 11,464	5,842 11,244	4,299 9,149	4,740 9,149	3,417 7,496	4,409 8,598	3,197 7,055	40'11"
Ground	2 sets of stabilizers raised 2 sets of stabilizers lowered	lb Ib	*8,929 *8,929	*8,929 *8,929		13,118 *32,518		9,039 20,393	9,039 18,188	6,724 14,551	7,055 13,779	5,181 11,133	5,622 11,023	4,189 8,929	4,630 *9,039	3,417 7,385			
–5.0 ft	2 sets of stabilizers raised 2 sets of stabilizers lowered	lb Ib			17,637 *23,038	12,346 *23,038	11,795 *22,156	8,488 19,731	8,708 *17,306	6,393 14,220	6,834 13,558	4,960 10,913	5,512 *10,582	4,079 8,818					

UNDERCARRIAGE – Material Handling

BOOM – 6.8 m (22'4")

STICK - 5.9 m (19'4") Drop Nose

Metric Units/all weights are in kg

	Undercarriage		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m				
Ž	configuration		ľ	P	ľ		ŀ	œ	ľ	P	ľ	P	ľ	P	ŀ	C 🗣	ľ	P	
12.0 m	2 sets of stabilizers raised 2 sets of stabilizers lowered	kg kg					7000 *7450	5400 *7450											
10.5 m	2 sets of stabilizers raised 2 sets of stabilizers lowered	kg kg							5000 *7250	3900 *7250									
9.0 m	2 sets of stabilizers raised 2 sets of stabilizers lowered	kg kg							5100 *7500	3950 *7500	3750 *6750	2900 5700							
7.5 m	2 sets of stabilizers raised 2 sets of stabilizers lowered	kg kg							5050 *7550	3950 *7550	3750 *6700	2900 5700	2850 5350	2200 4400			2600 *4400	1950 4000	11.11 m
6.0 m	2 sets of stabilizers raised 2 sets of stabilizers lowered	kg kg							4950 *7750	3850 7550	3700 *6800	2850 5600	2850 5300	2150 4400			2300 *4350	1750 3600	
4.5 m	2 sets of stabilizers raised 2 sets of stabilizers lowered	kg kg					6800 *9550	5200 *9550	4800 *8050	3700 7350	3600 6700	2750 5500	2800 5250	2100 4300	2200 4250	1650 3500	2150 4150	1600 3400	
3.0 m	2 sets of stabilizers raised 2 sets of stabilizers lowered	kg kg			9950 *13 450	7400 *13 450		4850 10 150	4550 *8400	3450 7100	3450 6550	2600 5350	2700 5150	2050 4250	2200 4200	1600 3450	2050 4000	1500 3250	12.43 m
1.5 m	2 sets of stabilizers raised 2 sets of stabilizers lowered	kg kg			9050 *14 750	6600 *14 750		4450 9650	4300 8500	3250 6850	3300 6400	2500 5200	2650 5100	1950 4150	2150 4150	1550 3400	2000 3900	1450 3200	12.48 m
Ground	2 sets of stabilizers raised 2 sets of stabilizers lowered	kg kg	*4050 *4050	*4050 *4050	8350 *14 750	5950 *14 750		4100 9250	4100 8250	3050 6600	3200 6250	2350 5050	2550 5000	1900 4050	2100 *4100	1550 3350			
–1.5 m	2 sets of stabilizers raised 2 sets of stabilizers lowered	kg kg			8000 *10 450	5600 *10 450		3850 8950	3950 *7850	2900 6450	3100 6150	2250 4950	2500 *4800	1850 4000					

* Indicates the load is hydraulically limited.

• Lift capacity ratings are based on ISO 10567 standards.

• Rated loads do not exceed 87% of the hydraulic lifting capacity or 75% of tipping.

• All weights are calculated at stick nose and without work tool installed.

• Oscillating axle must be locked.

Standard Equipment

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

Operator station Adjustable armrest Ash tray with cigarette lighter Beverage holder Steps uppercarriage Bolt-on FOGS capability Bottle holder Coat hook Parallel windshield wiper and washer Floor mat with storage tray, washable Monitor fuel gauge, engine coolant temperature and hydraulic oil temperature Information and warning messages Filter and fluid change intervals Working hour information Headlight and turning signal display Engine dial setting Clock with 10 day back-up Hydraulic cab riser 2400 mm (94 in) Interior lighting Joysticks, pilot operated Laminated front windshield Tiltable left side console with lock-out for all controls Lower right side literature holder Literature pocket behind seat Mirrors Mobile phone holder Mounting provisions for radio and speakers Parking brake Positive filtered ventilation Power supply, 12V-7A Pressurized cab Rear window, emergency exit Seat belt, retractable Seat with adjustable suspension Skylight Sliding door windows Steering column, tiltable Rear storage compartment Sunshade for windshield and skylight Electrical Alternator, 75 amp Lights Boom working light Cab interior Roading lights, front and rear Flashers, (caution) Power disconnect Signal/warning horn Heavy duty maintenance free batteries (2)

Power Train Air filter Altitude capability, 3000 m (9,842 ft) Automatic engine speed control Automatic starting aid Cat C6.6 ACERT Technology (U.S. Tier 3 and EU Stage IIIa compliant) Fuel filter Fuel/water separator with level indicator Muffler Power mode selector (economy and standard) High ambient cooling 52° C (125° F) Undercarriage Creeper speed Four wheel drive Full hydraulic steering with emergency capability MH undercarriage with four welded outriggers Oscillating front axle, lockable with remote greasing point Right and left side anti-skid steps Tool box (left side) Two-piece drive shaft Two speed transmission 25 km/h (16 mph) Top Speed Hydraulics Cat XT-6 ES hoses Heavy lift mode Oil cooler separate swing pump Stick regeneration circuit Variable displacement, load sensing hydraulic system Other equipment Anti-drift valve for boom cylinder Automatic swing brake Capability to add auxiliary hydraulic circuit Caterpillar Datalink and Electronic Technician capability Caterpillar Product Link ready Counterweight 5400 kg (11,905 lb) S•O•S[™] quick sampling valves for engine oil, hydraulic oil and coolant Uppercarriage access steps Lockable doors and caps with Caterpillar one key security system

Optional Equipment

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

Operator station Rearview camera Seat Comfort with air suspension and manual weight adjustment Deluxe with vertical and horizontal air suspension, automatic weight adjustment, climate controlled seat cushion and backrest, headrest, premium micro-fiber cloth, pneumatic lumbar support, seat cushion length and angle adjustment Falling objects guard Seat headrest Travel speed lock Vandalism guard Rain visor Windshield Fixed one piece 70/30 removable 73 mm (3") static seatbelt Heated mirrors AM/FM radio Fixed Cab Riser, 1200 mm (47") Electrical Rear LED lights Rotating beacon Booms, MH MH 6.8 m (22'4") Booms, Excavation One piece excavation 5.7 m (18'6") VA excavation 5.4 m (17'10") Sticks, MH Drop nose MH 4.9 m (16'1") Long Drop Nose MH 5.9 m (19'4") Straight MH 4.8 m (15'8")

Sticks, Excavation Industrial 3.3 m (10'10") 2.2 m (7'3") 2.5 m (8'2") 2.8 m (9'3") Hydraulics Biodegradable hydraulic oil Undercarriage MH undercarriage with four welded outriggers and front mounted blade Standard bolt-on/pin-on undercarriage Front bolt-on outriggers Rear pin-on dozer blade Rear pin-on outriggers Toolbox right side Optional tires Dual 10.00-20 solid rubber Dual 11.00-20 Bridgestone FG 16 ply Dual 11.00-20 Nokian Armor Guard 16 ply Other equipment Medium pressure auxiliary hydraulic circuit High pressure auxiliary hydraulic circuit 2nd High pressure auxiliary hydraulic circuit Joystick steering Machine security system Custom paint

M322D Material Handler

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

> © 2007 Caterpillar All Rights Reserved Printed in U.S.A.

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

CAT, CATERPILLAR, ACERT, their respective logos, "Caterpillar Yellow" and the POWER EDGE trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

AEHQ5876 (4-07)

