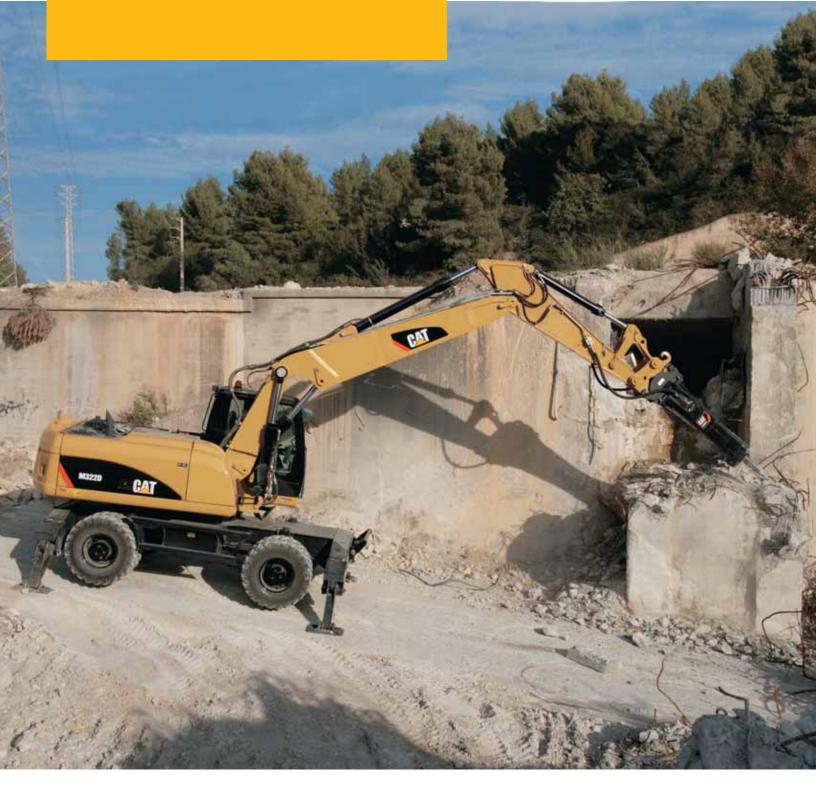
M322D

Wheel Excavator





Engine		
Engine Model	Cat® C6.6 with	n ACERT™ Technology
Net power (ISO 9249) at 2,000 rpm	123 kW	165 hp
Weights		
Operating Weight	19 500 to	42,990 to
	23 500 kg	51,809 lb

Bucket Specifications		
Bucket Capacities	0.44 to 1.57 m ³	0.57 to 2.05 yd ³
Working Ranges		
Maximum Reach at Ground Level	10 320 mm	33'10"
Maximum Digging Depth	6680 mm	21'11"
Drive		
Maximum Travel Speed	25 km/h	15.6 mph

Features

Engine

The EPA Tier 3 compliant C6.6 offers increased performance and reliability while reducing fuel consumption and sound levels.

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.

Hydraulics

The state of the art load-sensing hydraulic system combined with a separate dedicated swing pump provides fast cycle times, increased lift capacity and high bucket and stick forces. This combination maximizes your productivity in any job.

Serviceability

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

Operator Comfort

The totally redesigned operator station maximizes comfort while increasing safety. The available auto-weight adjusted air-suspension seat with heated and cooled ventilated cushions improves operator comfort. Safety is enhanced by the new color monitor and standard rear-mounted camera.

Undercarriage

Various undercarriage configuration with blade and outriggers are available to provide the best solution for you.

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The Cat® D Series incorporates innovations for improved performance and versatility.

Increased lifting capacity, improved cycle times and ease of operation lead to increased productivity and lower operating costs.

Engine

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

Powerful Performance

The Cat® C6.6 engine with ACERT™ 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 EPA Tier 3 engine emission regulations. The Cat C6.6 engine in the M322D delivers a maximum gross power of 129 kW (173 hp) at a rated speed of 2,000 rpm.

Low Fuel Consumption

The C6.6 is electronically controlled and uses 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 will operate at 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 two stage, 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 5 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

Load-sensing hydraulic system provides fast cycle times, increased lift capacity and high bucket and stick forces to maximize your productivity in any job.





Dedicated Swing Pump

A dedicated variable displacement piston pump and fixed displacement piston motor power the swing drive. 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 excavator by 7%.

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 preselected.

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 preprogrammed 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.
- A dedicated Hammer circuit is the best option for tools that require one-way flow only, and do not require the flexibility provided by the Multi-Combined Valve.
- The Medium Pressure Function Valve provides proportional flow that is ideal for tilting buckets or rotating tools.
- A new feature for the D Series Wheel Excavators 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 work tool.

Stick Regeneration Circuit

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

Quick Coupler

The machine can be optionally equipped with a dedicated hydraulic circuit to operate hydraulic quick couplers.

Hydraulic Snubbers

Caterpillar integrates its cylinder snubber technology into all Wheel Excavator boom and stick cylinders. These snubbers help cushion shocks, reduce sound and increase cylinder life.

SmartBoom[™]

Reduces stress and vibrations transmitted to the machine and provides a more comfortable environment.



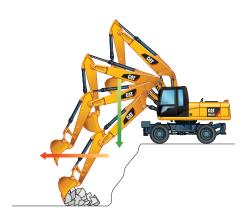
Rock Scraping

Scraping rock and finishing work is easy and fast. SmartBoom™ simplifies the task and allows the operator to concentrate on stick and bucket, while boom freely goes up and down without using pump flow.



Hammer Work

The front parts automatically follow the hammer while penetrating the rock. Blank shots or excessive force on the hammer are avoided resulting in longer life for the hammer and the machine. Similar advantages with vibratory plate compactors.



Truck Loading

Loading trucks from a bench is more productive and fuel efficient as the return cycle is reduced while the boom down function does not require pump flow.

Environmentally Responsible Design

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

Fuel Efficiency

The D Series Wheel Excavators 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 new Cat® C6.6 engine meets the EPA Tier 3 emissions regulations while offering increased performance, reliability and reduced fuel consumption and sound levels.

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 (Cat BIO HYDO Advanced HEESTM) is formulated to provide excellent

high-pressure and high temperature characteristics, and is fully compatible with all hydraulic components. Cat BIO HYDO Advanced HEESTM is fully decomposed by soil or water microorganisms, providing a more environmentally sound 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 Cat dealer can help extend service intervals for engine oil, hydraulic oil, axle oil and coolant. Meaning fewer required fluids and fewer disposal, all adding up to lower operating costs.

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 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 left-hand 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, cup/can 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 windshield meet operator preference and application conditions.

- The 70/30 split front windshield stores the upper portion above the operator. The lower front windshield features a rounded design to maximize downward visibility and improves wiper coverage. Also features the one-touch action release system.
- The fixed front windshield is high impact resistant laminated glass.
- A large skylight provides superb upward visibility. The retractable sunscreen blocks direct sunlight.

Heated Mirrors

Another new feature is electrically heated mirrors, increasing safety and visibility in cold conditions.

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.

Monitor

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

- 2 times 5 programmable "Quick Access" buttons for one-touch selection of favorite functions.
- Filter and oil change warnings are displayed when the number of hours reaches the maintenance interval.
- Tool select function allows the operator to select up to 10 predefined hydraulic work tools.
- Adjustable braking characteristics enable the operator to select three levels of travel motor retarder aggressiveness when releasing the travel pedal.
- Provides a rear camera view that is activated through the monitor menu.

Deluxe Seat

The 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 adjusts to the driver's weight providing a more relaxed and comfortable environment.

Lunch Box

A large storage compartment is located behind the operator's seat. The compartment provides sufficient room to store items such as a lunch box. A 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.

Cat Standard Rearview Camera

The rearview camera displays on the operator monitor. Together with the best in class visibility to the front, up, left and right, the rearview camera ensures the safe operation of the machine and fulfills the requirements of ISO 5006/EN474.



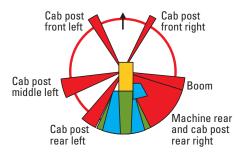








Field of Vision



Leaend:

Red: limitations due to cab post and/or boom Blue: additional visibility due to mirrors Green: additional visibility due to rearview camera





Undercarriage

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

Heavy-Duty Axles and Stabilizers

The D Series Wheel Excavator undercarriage provides rigidity and long life. Effective hydraulic line routing, transmission protection and heavy-duty axles make the undercarriage perfect for wheel excavator applications. 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 minimizes the rocking effect associated with working free on wheels. The axle design lowers maintenance and lifetime costs. Oil change intervals are at 2,000 working hours, further reducing owning and operating costs.

Fenders

The optional fenders provide excellent coverage of the front and rear tires, protecting the machine from mud and dirt. Water cannot splash up on the windscreen or cooler. The fenders further protect the machine from stones and debris being thrown up by the tires, providing additional safety for the machine, other vehicles and personnel working close to the excavator.

Booms and Sticks

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

Design

Booms and sticks are welded, box section structures with thick, multiplate fabrications in high stress areas, for rugged performance and long service life.

Flexibility

The choice of two booms and three sticks provides the right balance of reach and digging forces for all applications.

Variable Adjustable (VA) Boom

The VA boom offers improved right side visibility and machine roading balance. When working in tight quarters or lifting heavy loads, the VA boom offers the best performance.

One-Piece Boom

The one-piece boom fits best for all standard applications such as truck loading and digging. A unique straight section in the curve of the side plate reduces stress flow and helps increase boom life.

Sticks

Three different stick lengths are offered to match different application requirements:

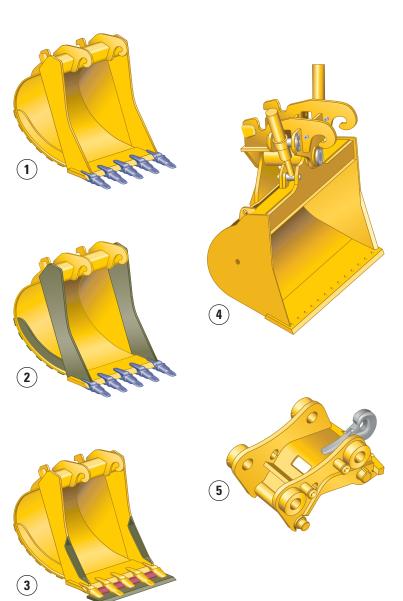
- Short stick (2200 mm [7'3"]) for maximum breakout force and lifting capability.
- Medium stick (2500 mm [8'2"]) for greater crowd force and lift capacity.
- Long stick (2900 mm [9'6"]) for greater depth and reach requirements.





Work Tools

A wide variety of Work Tools help optimize machine performance.



Work Tools

Cat work tools are designed to function as an integral part of your excavator and to provide the best possible performance in your particular application. All work tools are performance-matched to Cat machines.

Quick Couplers

Quick Couplers enable the operator to simply release one work tool and connect to another, making your hydraulic excavator highly versatile. Productivity also increases, as a carrier no longer needs to be idle between jobs. Caterpillar offers hydraulic and spindle quick coupler versions.

Buckets

Caterpillar offers a wide range of specialized buckets, each designed and tested to function as an integral part of your excavator. Buckets feature the new Cat K Series™ Ground Engaging Tools.

- 1 Excavation (X)
- 2 Extreme Excavation (EX)
- (3) Excavation Leveling
- (4) Ditch Cleaning
- 5 Quick Coupler

Purpose designed and built to Caterpillar's high durability standards.

Hammers

Cat® hammer series deliver very high blow rates, increasing the productivity of your tool carriers in demolition and construction applications. Wide oil flow acceptance ranges make the Cat hammers suitable for a wide range of carriers and provide a system solution from one safe source.

Orange Peel Grapples

The Orange Peel Grapple is constructed of high-strength, wear-resistant steel, with a low and compact design that makes it ideal for dump clearance. There are several choices of time and shell versions.

Multi-Processors

Thanks to its single basic housing design, the Multi-Processor series of hydraulic demolition equipment makes it possible to use a range of jaw sets that can handle any demolition job. The Multi-Processor is the most versatile demolition tool on the market.

Vibratory Plate Compactors

Cat compactors are performance-matched to Cat machines, and integrate perfectly with the Cat hammer line – brackets and hydraulic kits are fully interchangeable between hammers and compactors.

Shears

Cat shears provide superior and effective scrap processing, and are highly productive in demolition environments. Shears are compatible with a matching Cat excavator, and bolt-on brackets are available for either stick or boommounted options.









Serviceability and Complete Customer Support







Ground Level Maintenance

Caterpillar designed its D Series Wheel Excavators 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 Wheel Excavator 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 6,000 hours.

Engine Oil

Cat 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.

Air Filters

Cat 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% 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.

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.

Simplified and easy maintenance save you time and money. Cat[®] dealer services help you operate longer with lower costs.

Front Compartment

The front compartment hood can be opened vertically, providing outstanding ground level access to the batteries, air-to-air aftercooler, air conditioner condenser and the engine air filter.

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 aftercooler.

Scheduled Oil Sampling

Caterpillar has specially developed S·O·SSM 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 Cat dealer can give you results and specific recommendations shortly after receiving your sample.

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 from ground level.

Anti-Skid Plates

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

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.

Remote Greasing Blocks

For those hard to reach locations, greasing blocks have been provided to reduce maintenance time.

Handrails and Steps

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

LED Rear Lights

Standard Light Emitting Diode (LED) rear lights provide increased visibility on the job site, higher durability and longer life.









Versatility

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







Tool Control

The integrated Tool Control system allows the operator to select up to 10 preset combinations. This eliminates the need to reset the hydraulic parameters each time a tool is changed. Individual flow and pressure can be programmed easily as well as one-way/two-way hydraulic functions. Each of the tenprogrammed tools can even be given a specific name. The unique Cat proportional sliding switches and optional auxiliary pedal provide modulation to the tool to make precision work easy.

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.

Working and Travel Modes

There are 2 selectable working modes and one automatic travel setting. The operator can choose the best power setting for both engine and hydraulic power versus fuel efficiency.

- Economy Mode used for lifting, pipe setting, grading, slope finishing and precise work while reducing fuel consumption.
- Power Mode used for normal truck loading and digging applications, trenching or hammer use.
- Travel Mode automatically set when the travel pedal is actuated. It provides maximum speed and drawbar pull.

Product Link

Product Link allows remote monitoring of the machine, using a powerful telemetric system to transmit needed information to the customer and the dealer via a secure, web-based application, VisionLinkTM.

Critical information, such as event and diagnostic codes, is readily accessible, as are machine statistics, such as hour-meter reading, fuel consumption and idle time. Mapping functions include location and geo-fencing, which assist in servicing operations and in preventing unauthorized machine use. With Product Link, the customer and the dealer have an invaluable tool for more efficiently managing machines and fleets.

Ride Control

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.

Engine		
Engine Model	Cat® C6.6 ACERT™	with Technology
Ratings	2,000 rpm	
Gross Power	129 kW	173 hp
Net Power		
ISO 9249	123 kW	165 hp
80/1269/EEC	123 kW	165 hp
Bore	105 mm	4.13 in
Stroke	127 mm	5 in
Displacement	6.6 L	403 in ³
Cylinders	6	
Maximum Torque at 1,400 rpm	750 N·m	553 lb ft

- EPA Tier 3 compliant.
- Full engine net power up to 3000 m (1.86 mi) altitude.

Hydraulic System						
Tank Capacity	220 L	58 gal				
System	350 L	92 gal				
Maximum Pressure						
Implement Circuit						
Normal	350 bar	5,076 psi				
Heavy Lift	375 bar	5,439 psi				
Travel Circuit	350 bar	5,076 psi				
Auxiliary Circuit						
High Pressure	350 bar	5,076 psi				
Medium Pressure	185 bar	2,683 psi				
Swing Mechanism	340 bar	4,931 psi				
Maximum Flow						
Implement/	350 L/min	92 gal/min				
Travel Circuit						
Auxiliary Circuit						
High Pressure	250 L/min	55 gal/min				
Medium Pressure	50 L/min	13 gal/min				
Swing Mechanism	112 L/min	30 gal/min				

Weights		
VA Boom*		
Rear Dozer Only	19 650 kg	43,321 lb
Rear Dozer, Front Outriggers	20 850 kg	45,966 lb
Front and Rear Outriggers	21 100 kg	46,518 lb
One-Piece Boom*		
Rear Dozer Only	19 000 kg	41,888 lb
Rear Dozer, Front Outriggers	20 200 kg	44,533 lb
Front and Rear Outriggers	20 450 kg	45,085 lb
Sticks		
Short – 2200 mm (7'3")	650 kg	1,433 lb
Medium – 2500 mm (8'2")	700 kg	1,543 lb
Long – 2900 mm (9'6")	780 kg	1,720 lb
Dozer Blade	920 kg	2,028 lb
Outriggers	1260 kg	2,778 lb
Counterweight		
Standard	3900 kg	8,598 lb
Optional	4400/ 5400 kg	9,700/ 11,905 lb
· Machine weight wi	th madium of	tick

• Machine weight with medium stick, 4400 kg (9,700 lb) counterweight, with operator and full fuel tank, without work tool. Weight varies depending on configuration.

Transmission		
Forward/Reverse		
1st Gear	7 km/h	4 mph
2nd Gear	25 km/h	16 mph
Creeper Speed		
1st Gear	3 km/h	2 mph
2nd Gear	12 km/h	7.5 mph
Drawbar Pull	112 kN	25,179 lb
Maximum Gradeability	60%	

Swing Mecha	anism	
Swing Speed	9 rpm	
Swing Torque	56 kN·m	41,303 lb ft

Tires

Standard

• 11.00-20 (dual pneumatic)

Optional

• 10.00-20 (dual solid rubber)

Undercarriage		
Ground Clearance	380 mm	15 in
Maximum Steering Angle	35°	
Oscillation Axle Angle	± 9°	
Minimum Turning Ra	ıdius	
Standard Axle		
Outside of Tire	6800 mm	22 ft 0 in
End of VA Boom	7800 mm	25 ft 6 in
End of One-Piece Boom	9300 mm	30 ft 6 in

Service Refill Ca	apacities	
Fuel Tank	385 L	102 gal
Cooling	37 L	9.8 gal
Engine Crankcase	15 L	4 gal
Rear Axle Housing (differential)	14 L	3.7 gal
Front Steering Axle (differential)	11 L	2.9 gal
Final Drive	2.5 L	0.7 gal
Powershift Transmission	2.5 L	0.7 gal

Sound Levels

Exterior Sound

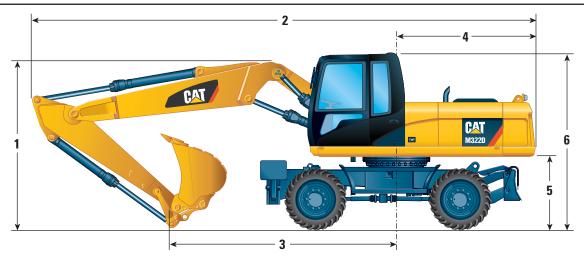
• The labeled spectator sound power level measured according to the test procedures and conditions specified in 2000/14/EC is 103 dB(A).

Cab/ROPS/FOGS

- Cat cab with integrated Roll Over Protective Structure (ROPS) meets ISO 12117-2:2008 criteria.
- Cab with Falling Object Guard Structure (FOGS) meets ISO 10262.

Dimensions

All dimensions are approximate.



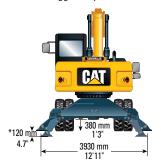
			VA Boom		C	ne-Piece Boo	m
Stick Length	mm (ft/in)	2200 (7'3")	2500 (8'2")	2900 (9'6")	2200 (7'3")	2500 (8'2")	2900 (9'6")
1 Shipping Height	mm (ft/in)	3260 (10'8")	3230 (10'7")	3250 (10'8")	3300 (10'10")	3250 (10'8")	3290 (10'10")
2 Shipping Length	mm (ft/in)	9430 (30'11")	9440 (31'0")	9430 (30'11")	9650 (31'8")	9640 (31'8")	9650 (31'8")
3 Support Point	mm (ft/in)	4160 (13'8")	3660 (12'0")	3420 (11'3")	4240 (13'11")	3720 (12'2")	3440 (11'3")
4 Tail Swing Radius	mm (ft/in)		2820 (9'3")			2820 (9'3")	
5 Counterweight Clearance	mm (ft/in)		1310 (4'4")			1310 (4'4")	
6 Cab Height	mm (ft/in)		3200 (10'6")			3200 (10'6")	
With 1200 mm (47") Fixed Cab Riser	mm (ft/in)		4400 (14'5")			4400 (14'5")	



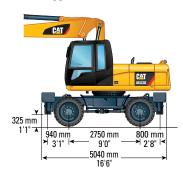
Undercarriage with dozer only



* Maximum tire clearance with outrigger fully down



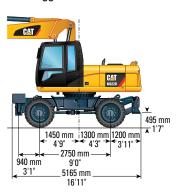
Undercarriage with 2 sets of outriggers



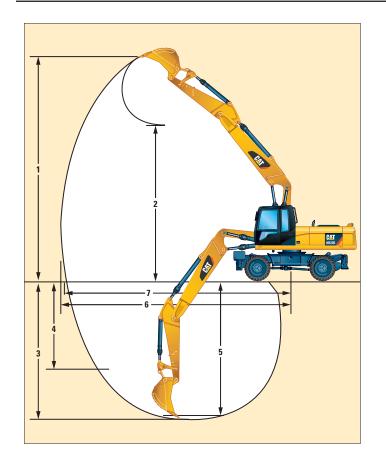
Roading position with 2500 mm (8'2") stick

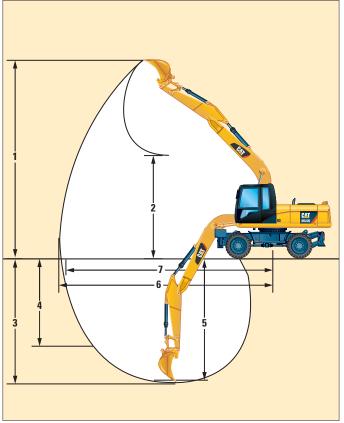


Undercarriage with 1 set of outriggers and dozer



Working Ranges





		VA Boom			One-Piece Boom			
Stick Length	mm	2200	2500	2900	2200	2500	2900	
	(ft/in)	(7'3")	(8'2")	(9'6")	(7'3")	(8'2")	(9'6")	
1 Digging Height	mm	10 560	10 620	10 930	9670	9540	9760	
	(ft/in)	(34'8")	(34'11")	(35'11")	(31'9")	(31'4")	(32'1")	
2 Dump Height	mm	6930	7170	7500	6300	6230	6450	
	(ft/in)	(22'9")	(23'7")	(24'8")	(20'8")	(20'5")	(21'2")	
3 Digging Depth	mm	5990	6280	6680	5770	6070	6470	
	(ft/in)	(19'8")	(20'7")	(21'11")	(18'11")	(19'11")	(21'3")	
4 Vertical Wall Digging Depth	mm	4420	4450	4830	4480	4780	5160	
	(ft/in)	(14'6")	(14'7")	(15'10")	(14'9")	(15'8")	(16'11")	
5 Depth 2.5 m (8'2") Straight Clean-Up	mm	5780	6090	6510	5570	5880	6300	
	(ft/in)	(20'0")	(20'0")	(21'5")	(18'3")	(19'4")	(20'8")	
6 Reach	mm	9770	10 000	10 390	9890	10 100	10 490	
	(ft/in)	(32'1")	(32'10")	(34'1")	(32'6")	(33'2")	(34'5")	
7 Reach at Ground Level	mm	9590	9830	10 230	9720	9930	10 320	
	(ft/in)	(31'6")	(32'3")	(33'7")	(31'11")	(32'7")	(33'10")	
Bucket Forces (ISO 6015)	kN	140	140	140	140	140	140	
	(lbf)	(31,472)	(31,472)	(31,472)	(31,472)	(31,472)	(31,472)	
Stick Forces (ISO 6015)	kN	123	114	104	123	114	104	
	(lbf)	(27,650)	(25,627)	(23,379)	(27,650)	(25,627)	(23,379)	

Values 1-7 are calculated with bucket and quick coupler with a tip radius of 1712 mm (5 $^{\circ}$ 7").

Breakout force values are calculated with heavy lift on (no quick coupler) and a tip radius of 1511 mm (4 $^{\circ}$ 11 $^{\circ}$).

Bucket Specifications

Contact your Cat dealer for special bucket requirements.

	Wi	idth	We	ight	Capaci	ty (SAE)	
Bucket Type	mm	in	kg	lb	m³	yd³	No. of Teeth
	610	24	600	1,324	0.57	0.74	3
	762	30	655	1,447	0.77	1.01	4
	914	36	738	1,630	0.95	1.24	5
	991	39	676	1,493	0.86	1.12	4
General Purpose	1067	42	797	1,759	1.17	1.53	5
	1219	48	930	2,052	1.39	1.82	6
	1295	51	791	1,746	1.19	1.55	5
	1372	54	939	2,072	1.57	2.05	6
	1499	59	861	1,900	1.41	1.84	5
	610	24	631	1,393	0.57	0.74	3
	762	30	689	1,522	0.77	1.01	4
	914	36	782	1,727	0.95	1.24	5
General Purpose Wide Tip	1067	42	848	1,872	1.17	1.53	6
	1219	48	933	2,059	1.39	1.82	7
	1372	54	1007	2,223	1.57	2.05	8
	610	24	694	1,533	0.54	0.7	3
	762	30	689	1,520	0.69	0.9	4
п. Б.	914	36	790	1,743	0.84	1.1	5
Heavy Duty	1067	42	848	1,872	1.07	1.4	5
	1219	48	943	2,082	1.22	1.6	6
	1372	54	1107	2,444	1.38	1.8	6
	610	24	695	1,535	0.54	0.7	3
	762	30	778	1,718	0.69	0.9	4
	914	36	858	1,893	0.84	1.1	5
Heavy Duty Rock	1067	42	925	2,043	1.07	1.4	5
	1245	49	800	1,766	1.13	1.48	4
	1295	51	830	1,832	1.18	1.54	5
	1397	55	867	1,914	1.29	1.68	5
	914	36	799	1,764	0.84	1.1	5
Heavy Duty Power	1067	42	842	1,858	0.99	1.3	5
	1219	48	914	2,017	1.15	1.5	6
	1524	60	752	1,660	0.99	1.3	0
Ditch Cleaning	1829	72	843	1,860	1.24	1.62	0
	2007	79	669	1,477	0.70	0.91	0
	1524	60	861	1,900	0.86	1.12	0
Die LOL 1 Th	1829	72	951	2,100	0.96	1.25	0
Ditch Cleaning Tilt	2007	79	539	1,190	0.57	0.75	0
	2311	91	560	1,237	0.62	0.81	0

[•] All bucket recommendations are subject to material density.

[•] All data is subject to change without notice.

[•] Contact your Cat dealer for bucket availability and specifications.

Work Tools Matching Guide

When choosing between various work tool models that can be installed onto the same machine configuration, consider work tool application, productivity requirements, and durability. Refer to work tool specifications for application recommendations and productivity information.

					Vari		Adjusta mm (1	able B 7'10")	oom							Piece mm (1				
Without Quick Couple	er		ı	Dozer owere		of s	2 sets stabiliz owere	ers	and	Dozer I stabil owere	lizer d	le	Dozer	d	of s	2 sets stabiliz owere	ers d	I	Dozer d stabil owere	izer d
Stick Length		mm (ft/in)	2200 (7'3")		2900 (9'6")	2200 (7'3")			2200 (7'3")	2500 (8'2")				2900 (9'6")					2500 (8'2")	
Hammers	H115 S, H12	20C S, H130 S																		
	MP15	CC, CR																		
	MP15	PP																		
Multiprocessors	MP15	PS																		
	MP15	S																		
	MP20	S																		
	S320B																			
Hydraulic Shears (* boom mounted)	S325B*																			
(boom mounted)	S340B*																			
Compactor	CVP110																			
		400 L (0.53 yd³)																		
	GSH15B	500 L (0.66 yd ³)																		
Oranga Daal	4 tines	600 L (0.79 yd ³)																		
Orange Peel Grapples		800 L (1.05 yd³)																		
Старріос	GSH20B	600 L (0.79 yd ³)																		
	4 tines	800 L (1.05 yd³)																		
L		1000 L (1.3 yd³)																		
				360°	Workii	ng Ran	ige							mum r O lb/yd		al dens	sity 300	00 kg/n	n³	
				Over	the fro	ont onl	У							mum r O Ib/yd		al dens	sity 180	00 kg/n	n³	
														mum r O lb/yd		al dens	sity 120	00 kg/n	1 ³	

Lift Capacities – Variable Adjustable Boom (5440 mm [17'10"])

All values are in kg, without bucket and without QC, with counterweight (4400 kg [9,700 lb]), heavy lift on.

Load over rear Load at maximum reach (sticknose/bucket pin) Load over front Load over side **Short** 3.0 m 4.5 m 6.0 m Stick 4 9 Undercarriage configuration 2200 mm Rear dozer up (std UC) *8000 7250 6050 5600 4500 3750 (7'3'')Rear dozer down (std UC) *8000 6850 *7100 4250 Dozer and stabilizer down (std UC) kg *8000 *8000 *7100 6250 2 sets of stabilizers down (std UC) kg *8000 *8000 *8000 *7100 *7100 *7100 8650 Rear dozer up (std UC) 6850 5650 4350 3600 kg

m *4100 3550 2950 *4100 3350 6.80 *4100 *4100 *4100 *4100 *4100 3750 2450 2950 3700 2900 2400 Rear dozer down (std UC) *9250 6450 *7300 4150 *5050 2850 *3750 2800 kg 7.56 Dozer and stabilizer down (std UC) kg *9250 *9250 *7300 6100 *5050 4250 *3750 *3750 2 sets of stabilizers down (std UC) kg *9250 *9250 *9250 *7300 *7300 *7300 *5050 *5050 5050 *3750 *3750 *3750 Rear dozer up (std UC) 6250 5100 4100 3400 3700 2900 2400 3350 2600 2150 kg *3650 Rear dozer down (std UC) kg 7.96 Dozer and stabilizer down (std UC) *10 950 9100 *7800 5850 *6200 4150 *3650 *3650 kg 2 sets of stabilizers down (std UC) *10 950 *7800 *7800 *6200 *6200 *3650 *3650 *10 950 10 950 7050 5000 kg Rear dozer up (std UC) kg 7500 5750 4650 3850 3200 3600 2800 2300 3250 2500 2100 Rear dozer down (std UC) kg *11 950 5450 *8500 3650 6050 2650 *3700 2400 8.04 Dozer and stabilizer down (std UC) *11 950 8600 *8500 5600 *6500 4050 *3700 3650 kg 2 sets of stabilizers down (std UC) *11 950 *11 950 10 700 *8500 *8500 6800 *6500 6150 4900 *3700 *3700 kg Rear dozer up (std UC) 7300 5600 4500 4800 3700 3050 3550 2750 2250 3350 2600 2150 kg *11 650 *3900 Rear dozer down (std UC) 5250 8500 3550 5950 2600 2450 kg 7.83 Dozer and stabilizer down (std UC) *3900 *11 650 5450 *6500 4000 3800 kg 8400 *8600 *11 650 *6500 2 sets of stabilizers down (std UC) kg *11 650 10 500 *8600 8550 6650 6100 4800 *3900 *3900 *3900 Rear dozer up (std UC) 5600 4500 3700 3000 2900 2350 kg Rear dozer down (std UC) *4400 kg 7.30 Dozer and stabilizer down (std UC) *10 400 *7800 5450 4200 kq *10 400 10 400 *7800 *4400 *4400 *4400 2 sets of stabilizers down (std UC) *10 400 6600

T Load point height

7.5 m

Short Stick 2200 mm (7'3'')

			40.06		I	45.06			00.0 %		I	05.0.6			-		
\searrow_{\pm}			10.0 ft			15.0 ft			20.0 ft			25.0 ft			_₩	_	
	Undercarriage configuration		7	æ	6	7	æ		7		6	7	æ		7	æ	ft
	Rear dozer up (std UC)	lb			*17,400	15,600	13,000	12,000	9,600	8,100				*9,100	7,900	6,600	
20.0 ft	Rear dozer down (std UC)	lb				*17,400	14,800		*15,500	9,200					*9,100	7,600	22.11
20.0 11	Dozer and stabilizer down (std UC)	lb				*17,400	*17,400		*15,500	13,500					*9,100	*9,100	22.11
	2 sets of stabilizers down (std UC)	lb			*17,400	*17,400	*17,400	*15,500	*15,500	*15,500				*9,100	*9,100	*9,100	
	Rear dozer up (std UC)	lb			18,600	14,800	12,200	11,700	9,300	7,800				8,200	6,500	5,400	
15.0 ft	Rear dozer down (std UC)	lb				*20,000	14,000		*15,800	8,900					*8,300	6,200	24.74
13.011	Dozer and stabilizer down (std UC)	lb				*20,000	*20,000		*15,800	13,200					*8,300	*8,300	24.74
	2 sets of stabilizers down (std UC)	lb			*20,000	*20,000	*20,000	*15,800	*15,800	15,800				*8,300	*8,300	*8,300	
	Rear dozer up (std UC)	lb			17,300	13,500	11,000	11,200	8,800	7,300	8,000	6,200	5,200	7,400	5,800	4,800	
10.0 ft	Rear dozer down (std UC)	lb				*23,600	12,700		*16,800	8,400		13,200	6,000		*8,000	5,500	26.08
10.011	Dozer and stabilizer down (std UC)	lb				*23,600	19,600		*16,800	12,600		*13,500	9,000		*8,000	*8,000	20.00
	2 sets of stabilizers down (std UC)	lb			*23,600	*23,600	*23,600	*16,800	*16,800	15,200	*13,500	13,500	10,700	*8,000	*8,000	*8,000	
	Rear dozer up (std UC)	lb			16,200	12,500	10,000	10,700	8,300	6,900	7,800	6,000	5,000	7,200	5,600	4,600	
5.0 ft	Rear dozer down (std UC)	lb				*25,900	11,700		*18,300	7,900		13,000	5,800		*8,100	5,300	26.38
3.0 11	Dozer and stabilizer down (std UC)	lb				*25,900	18,500		*18,300	12,100		*14,100	8,800		*8,100	8,100	20.30
	2 sets of stabilizers down (std UC)	lb			*25,900	*25,900	23,000	*18,300	*18,300	14,700	*14,100	13,200	10,500	*8,100	*8,100	*8,100	
	Rear dozer up (std UC)	lb			15,800	12,000	9,700	10,400	8,000	6,600	7,600	5,900	4,900	7,400	5,700	4,700	
0.0 ft	Rear dozer down (std UC)	lb				*25,300	11,300		18,300	7,600		12,800	5,600		*8,600	5,500	25.69
0.011	Dozer and stabilizer down (std UC)	lb				*25,300	18,100		*18,600	11,800		*14,000	8,600		*8,600	8,300	23.03
	2 sets of stabilizers down (std UC)	lb			*25,300	*25,300	22,500	*18,600	18,400	14,300	*14,000	13,100	10,400	*8,600	*8,600	*8,600	
	Rear dozer up (std UC)	lb			15,700	12,000	9,700	10,300	8,000	6,500				8,200	6,400	5,200	
-5.0 ft	Rear dozer down (std UC)	lb				*22,600	11,300		*16,900	7,600					*9,700	6,100	23.88
-3.0 IL	Dozer and stabilizer down (std UC)	lb				*22,600	18,000		*16,900	11,700					*9,700	9,300	23.00
	2 sets of stabilizers down (std UC)	lb			*22,600	*22,600	22,500	*16,900	*16,900	14,300				*9,700	*9,700	*9,700	

^{*}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 and the Variable Boom Cylinder adjusted to the maximum length. 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 - Variable Adjustable Boom (5440 mm [17'10"])

All values are in kg, without bucket and without QC, with counterweight (4400 kg [9,700 lb]), heavy lift on.

Medium Stick 2500 mm (8'2")

Load at maximum reach (sticknose/bucket pin)

aximum re	ach (sticknose/bucket pin)		Load	l over fro	nt		P Load	l over rea	r		Loa	ıd over si	de		Loa	ad point h	eight	
> →				3.0 m			4.5 m			6.0 m			7.5 m				=	
	Undercarriage configuration			Ē.			4	æ		4	æ	₽	J.	ŒP	₽-	Ē.	ŒP	m
	Rear dozer up (std UC)	kg							5650	4500	3800				*3350	3350	2800	
6.0 m	Rear dozer down (std UC)	kg								*6800	4300					*3350	3200	7.08
0.0111	Dozer and stabilizer down (std UC)	kg								*6800	6300					*3350	*3350	7.00
	2 sets of stabilizers down (std UC)	kg							*6800	*6800	*6800				*3350	*3350	*3350	
	Rear dozer up (std UC)	kg				8750	6950	5750	5500	4350	3650	3800	3000	2500	*3150	2750	2300	.
4.5 m	Rear dozer down (std UC)	kg					*8800	6550		*7150	4150		*5800	2850		*3150	2650	7.81
4.5111	Dozer and stabilizer down (std UC)	kg					*8800	*8800		*7150	6150		*5800	4250		*3150	*3150	7.01
	2 sets of stabilizers down (std UC)	kg				*8800	*8800	*8800	*7150	*7150	*7150	*5800	*5800	5100	*3150	*3150	*3150	
	Rear dozer up (std UC)	kg				8100	6350	5150	5250	4100	3400	3700	2900	2400	*3150	2500	2050	.
3.0 m	Rear dozer down (std UC)	kg					*10 600	5950		*7600	3900		*6050	2750		*3150	2400	8.19
3.0 111	Dozer and stabilizer down (std UC)	kg					*10 600	9200		*7600	5900		*6050	4150		*3150	*3150	0.13
	2 sets of stabilizers down (std UC)	kg				*10 600	*10 600	*10 600	*7600	*7600	7100	*6050	*6050	5000	*3150	*3150	*3150	
	Rear dozer up (std UC)	kg				7550	5800	4700	5000	3850	3200	3600	2800	2300	3100	2400	1950	
1.5 m	Rear dozer down (std UC)	kg					*11 800	5450		*8300	3700		6050	2650		*3250	2300	8.28
1.5111	Dozer and stabilizer down (std UC)	kg					*11 800	8650		*8300	5650		*6350	4050		*3250	*3250	0.20
	2 sets of stabilizers down (std UC)	kg				*11 800	*11 800	10 750	*8300	*8300	6850	*6350	6150	4850	*3250	*3250	*3250	
	Rear dozer up (std UC)	kg				7300	5600	4450	4800	3700	3050	3500	2700	2250	3200	2450	2000	
0.0 m	Rear dozer down (std UC)	kg					*11 800	5250		8500	3500		5950	2600		*3500	2350	8.07
0.0 111	Dozer and stabilizer down (std UC)	kg					*11 800	8400		*8600	5450		*6600	3950		*3500	*3500	0.07
	2 sets of stabilizers down (std UC)	kg				*11 800	*11 800	10 500	*8600	8550	6650	*6600	6050	4800	*3500	*3500	*3500	
	Rear dozer up (std UC)	kg	*10 000	*10 000	8350	7300	5550	4450	4750	3650	3000	3500	2700	2250	3500	2700	2200	
-1.5 m	Rear dozer down (std UC)	kg		*10 000	*10 000		*10 750	5200		*8000	3450		*5200	2600		*4050	2550	7.55
-1.5111	Dozer and stabilizer down (std UC)	kg		*10 000	*10 000		*10 750	8350		*8000	5400		*5200	4000		*4050	3950	7.55
	2 sets of stabilizers down (std UC)	kg	*10 000	*10 000	*10 000	*10 750	*10 750	10 450	*8000	*8000	6600	*5200	*5200	4800	*4050	*4050	*4050	
	Rear dozer up (std UC)	kg				7400	5650	4550	4850	3750	3050							
-3.0 m	Rear dozer down (std UC)	kg					*8650	5300		*6300	3550	J						
-3.0 111	Dozer and stabilizer down (std UC)	kg					*8650	8450		*6300	5500							
	2 sets of stabilizers down (std UC)	kg				*8650	*8650	*8650	*6300	*6300	*6300							

Medium Stick 2500 mm (8'2")

	Г																	
→				10.0 ft			15.0 ft			20.0 ft			25.0 ft				=	
	Undercarriage configuration			7	F	₽	7	F	₽	7	æ	₽ <u></u>	7	æ	0	7	F	ft
	Rear dozer up (std UC)	lb							12,100	9,700	8,200				*7,500	7,400	6,200	
20.0 ft	Rear dozer down (std UC)	lb								*14,900	9,300					*7,500	7,100	23.03
20.011	Dozer and stabilizer down (std UC)	lb								*14,900	13,600					*7,500	*7,500	23.03
	2 sets of stabilizers down (std UC)	lb							*14,900	*14,900	*14,900				*7,500	*7,500	*7,500	
	Rear dozer up (std UC)	lb				18,800	15,000	12,400	11,800	9,400	7,900	8,200	6,400	5,300	*7,000	6,100	5,100	
15.0 %	Rear dozer down (std UC)	lb					*19,100	14,100		*15,500	9,000		*10,800	6,100		*7,000	5,900	25.50
15.0 ft	Dozer and stabilizer down (std UC)	lb					*19,100	*19,100		*15,500	13,200		*10,800	9,100	İ	*7,000	*7,000	25.56
	2 sets of stabilizers down (std UC)	lb				*19,100	*19,100	*19,100	*15,500	*15,500	*15,500	*10,800	*10,800	*10,800	*7,000	*7,000	*7,000	
	Rear dozer up (std UC)	lb				17,500	13,700	11,200	11,300	8,900	7,400	8,000	6,200	5,200	*6,900	5,500	4,600	
1006	Rear dozer down (std UC)	lb					*22,800	12,900		*16,500	8,500		*13,100	6,000	İ	*6,900	5,300	26.87
10.0 ft	Dozer and stabilizer down (std UC)	lb					*22,800	19,800		*16,500	12,700		*13,100	9,000	İ	*6,900	*6,900	26.87
	2 sets of stabilizers down (std UC)	lb				*22,800	*22,800	*22,800	*16,500	*16,500	15,300	*13,100	*13,100	10,700	*6,900	*6,900	*6,900	
	Rear dozer up (std UC)	lb				16,300	12,600	10,100	10,700	8,400	6,900	7,700	6,000	5,000	6,800	5,300	4,300	
5.0 ft	Rear dozer down (std UC)	lb					*25,600	11,800		*17,900	7,900		13,000	5,700		*7,200	5,000	27.17
5.0 11	Dozer and stabilizer down (std UC)	lb					*25,600	18,600		*17,900	12,100		*13,700	8,700		*7,200	*7,200	21.11
	2 sets of stabilizers down (std UC)	lb				*25,600	*25,600	23,100	*17,900	*17,900	14,700	*13,700	13,200	10,500	*7,200	*7,200	*7,200	
	Rear dozer up (std UC)	lb				15,700	12,000	9,600	10,400	8,000	6,500	7,600	5,900	4,800	7,000	5,400	4,400	
0.0 ft	Rear dozer down (std UC)	lb					*25,600	11,300		18,200	7,600		12,800	5,600		*7,800	5,200	26.48
0.011	Dozer and stabilizer down (std UC)	lb					*25,600	18,100		*18,700	11,800		*14,300	8,600		*7,800	*7,800	20.40
	2 sets of stabilizers down (std UC)	lb				*25,600	*25,600	22,500	*18,700	18,400	14,300	*14,300	13,000	10,300	*7,800	*7,800	*7,800	
	Rear dozer up (std UC)	lb	*22,900	*22,900	17,900	15,700	11,900	9,600	10,300	7,900	6,400				7,700	6,000	4,900	
_5.0 ft	Rear dozer down (std UC)	lb		*22,900	21,500		*23,300	11,200		*17,300	7,500					*8,900	5,700	24.74
-5.0 10	Dozer and stabilizer down (std UC)	lb		*22,900	*22,900		*23,300	18,000		*17,300	11,600					*8,900	8,700	24.74
	2 sets of stabilizers down (std UC)	lb	*22,900	*22,900	*22,900	*23,300	*23,300	22,400	*17,300	*17,300	14,200				*8,900	*8,900	*8,900	
	Rear dozer up (std UC)	lb				15,900	12,200	9,800	10,400	8,100	6,600							
-10.0 ft	Rear dozer down (std UC)	lb					*18,600	11,400		*13,300	7,700				ļ			
-10.011	Dozer and stabilizer down (std UC)	lb					*18,600	18,200		*13,300	11,800							
	2 sets of stabilizers down (std UC)	lb				*18,600	*18,600	*18,600	*13,300	*13,300	*13,300							

^{*}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 and the Variable Boom Cylinder adjusted to the maximum length. 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 – Variable Adjustable Boom (5440 mm [17'10"])

All values are in kg, without bucket and without QC, with counterweight (4400 kg [9,700 lb]), heavy lift on.

→ T Load point height Load at maximum reach (sticknose/bucket pin) Load over front Load over rear Load over side 3.0 m 4.5 m 6.0 m 7.5 m Long Stick 4 4 9 æ M æ m Undercarriage configuration 2900 mm Rear dozer up (std UC) 5700 4600 3850 *3150 3050 2550 *2800 *2800 2500 (9'6'')Rear dozer down (std UC) *6350 4350 *3150 2900 *2800 *2800 7.54 Dozer and stabilizer down (std UC) kg *6350 *6350 *3150 *3150 *2800 *2800 2 sets of stabilizers down (std UC) kg *6350 *6350 *6350 *3150 *3150 *3150 *2800 *2800 *2800 Rear dozer up (std UC) *7900 7050 5850 4400 *2650 5550 3700 3850 3000 2500 2550 2100 kg Rear dozer down (std UC) *7900 6650 *6850 *5700 2900 *2650 2400 kg 4200 8.23 Dozer and stabilizer down (std UC) kg *7900 *7900 *6850 6200 *5700 4300 *2650 *2650 2 sets of stabilizers down (std UC) *7900 *7900 *7900 *6850 *6850 *6850 *5700 *5700 5100 *2650 *2650 *2650 Rear dozer up (std UC) 6450 5250 4150 3450 3700 2900 2400 *2600 2300 1900 kg 8200 *5850 *2600 Rear dozer down (std UC) kg *7350 3.0 m 8.59 Dozer and stabilizer down (std UC) °10 050 9350 *7350 5900 *5850 4200 *2600 *2600 kg 2 sets of stabilizers down (std UC) *10 050 *10 050 *7350 *7350 7150 *5850 *5850 *2600 *2600 *2600 kg 10 050 5000 Rear dozer up (std UC) kg 7600 5850 4750 5000 3900 3200 3600 2800 2300 *2700 2200 1800 Rear dozer down (std UC) kg 11 550 5500 *8050 3700 6050 2650 *2700 2100 8.67 Dozer and stabilizer down (std UC) *11 550 8700 *8050 5650 *6150 4050 *2700 *2700 2 sets of stabilizers down (std UC) kg *11 550 *11 550 10 850 *8050 *8050 6850 *6150 6150 4850 *2700 *2700 *2700 Rear dozer up (std UC) 7300 5550 4450 4800 3700 3000 3500 2700 2200 *2900 2250 1850 kg *11 850 *2900 2150 Rear dozer down (std UC) 5200 8500 3500 5900 2550 kg 8.47 Dozer and stabilizer down (std UC) *11 850 5450 *6500 3950 *2900 *2900 kg 8350 *8600 *11 850 2 sets of stabilizers down (std UC) kg *11 850 10 450 *8600 8500 6600 *6500 6000 4750 *2900 *2900 *2900 Rear dozer up (std UC) *9450 *9450 8150 5450 4350 3600 2900 2650 2150 2450 2000 kg Rear dozer down (std UC) *9450 kg *11 100 *8200 3400 *3300 2350 7 98 Dozer and stabilizer down (std UC) *9450 *11 100 8300 *8200 5350 *6100 3900 *3300 *3300 kg 2 sets of stabilizers down (std UC) *9450 *9450 *9450 *11 100 *11 100 10 350 *8200 *8200 *6100 *3300 *3300 6550 6000 4700 *3300 kg Rear dozer up (std UC) kg 7250 5550 4400 3650 2950 Rear dozer down (std UC) kg *9300 5200 *6850 3450

Long Stick 2900 mm (9'6")

			1													—	 _	
>> →				10.0 ft			15.0 ft			20.0 ft			25.0 ft			<u> </u>	_	
	Undercarriage configuration			7			7			7			7	F	4	P	P	ft
	Rear dozer up (std UC)	lb							12,300	9,800	8,300				*6,200	*6,200	5,600	
20.0 ft	Rear dozer down (std UC)	lb								*13,900	9,400					*6,200	*6,200	24.54
20.0 11	Dozer and stabilizer down (std UC)	lb								*13,900	13,700					*6,200	*6,200	24.34
	2 sets of stabilizers down (std UC)	lb							*13,900	*13,900	*13,900				*6,200	*6,200	*6,200	
	Rear dozer up (std UC)	lb				*17,000	15,200	12,600	11,900	9,500	8,000	8,200	6,500	5,400	*5,800	5,600	4,600	
15.0 ft	Rear dozer down (std UC)	lb					*17,000	14,400		*14,900	9,100		*12,300	6,200		*5,800	5,400	26.90
13.011	Dozer and stabilizer down (std UC)	lb					*17,000	*17,000		*14,900	13,300		*12,300	9,200		*5,800	*5,800	20.30
	2 sets of stabilizers down (std UC)	lb				*17,000	*17,000	*17,000	*14,900	*14,900	*14,900	*12,300	*12,300	11,000	*5,800	*5,800	*5,800	
	Rear dozer up (std UC)	lb				17,700	13,900	11,400	11,300	8,900	7,400	8,000	6,300	5,200	*5,800	5,100	4,200	
10.0 ft	Rear dozer down (std UC)	lb					*21,700	13,100		*15,900	8,500		*12,700	6,000		*5,800	4,800	28.15
10.011	Dozer and stabilizer down (std UC)	lb					*21,700	20,100		*15,900	12,800		*12,700	9,000		*5,800	*5,800	20.13
	2 sets of stabilizers down (std UC)	lb				*21,700	*21,700	*21,700	*15,900	*15,900	15,400	*12,700	*12,700	10,800	*5,800	*5,800	*5,800	
	Rear dozer up (std UC)	lb				16,400	12,700	10,200	10,700	8,400	6,900	7,700	6,000	4,900	*5,900	4,900	4,000	
5.0 ft	Rear dozer down (std UC)	lb					*24,900	11,900		*17,300	7,900		13,000	5,700		*5,900	4,600	28.44
0.010	Dozer and stabilizer down (std UC)	lb					*24,900	18,700		*17,300	12,100		*13,300	8,700		*5,900	*5,900	20.11
	2 sets of stabilizers down (std UC)	lb				*24,900	*24,900	23,300	*17,300	*17,300	14,700	*13,300	13,200	10,500	*5,900	*5,900	*5,900	
	Rear dozer up (std UC)	lb				15,700	12,000	9,600	10,300	7,900	6,500	7,500	5,800	4,700	*6,400	5,000	4,000	
0.0 ft	Rear dozer down (std UC)	lb					*25,700	11,300		18,200	7,500		12,700	5,500		*6,400	4,700	27.79
0.0 1.	Dozer and stabilizer down (std UC)	lb					*25,700	18,000		*18,600	11,700		*14,100	8,500		*6,400	*6,400	27.70
	2 sets of stabilizers down (std UC)	lb				*25,700	*25,700	22,500	*18,600	18,300	14,300	*14,100	13,000	10,200	*6,400	*6,400	*6,400	
	Rear dozer up (std UC)	lb	*21,600	*21,600	17,500	15,500	11,800	9,400	10,100	7,800	6,300	7,400	5,700	4,700	7,000	5,400	4,400	
-5.0 ft	Rear dozer down (std UC)	lb		*21,600	21,100		*24,000	11,100		*17,700	7,400		12,600	5,400		*7,300	5,100	26.15
0.0.1	Dozer and stabilizer down (std UC)	lb		*21,600	*21,600		*24,000	17,800		*17,700	11,500		*13,000	8,400		*7,300	*7,300	200
	2 sets of stabilizers down (std UC)	lb	*21,600	*21,600	*21,600	*24,000	*24,000	22,200	*17,700	*17,700	14,100	*13,000	12,900	10,200	*7,300	*7,300	*7,300	
	Rear dozer up (std UC)	lb				15,600	11,900	9,500	10,200	7,900	6,400							
-10.0 ft	Rear dozer down (std UC)	lb					*20,000	11,200		*14,600	7,400							
10.01	Dozer and stabilizer down (std UC)	lb					*20,000	17,900		*14,600	11,600							
	2 sets of stabilizers down (std UC)	lb				*20,000	*20,000	*20,000	*14,600	*14,600	14,200							

*9300

*9300

8350

*9300

*6850

*6850

5400

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 and the Variable Boom Cylinder adjusted to the maximum length. 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.

Dozer and stabilizer down (std UC)

2 sets of stabilizers down (std UC

kg

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

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

Lift Capacities - One-Piece Boom (5650 mm [18'6"])

All values are in kg, without bucket and without QC, with counterweight (4400 kg [9,700 lb]), heavy lift on.

kg | *10 900 | *10 900 | *10 900

Load at n	aximum re	ach (sticknose/bucket pin)		Load	d over fro	nt		P Load	d over rea	ır	(Loa	d over si	de		Loa	ad point h	eight	
Short	\				3.0 m			4.5 m			6.0 m			7.5 m			=	=	
Stick 2200 mm		Undercarriage configuration		d	7	æ	d	P	4	4	P	æ	4	4	ŒP	4	P	4	m
(7'3")		Rear dozer up (std UC) Rear dozer down (std UC)	kg kg							5550	4450 *6800	3750 4250				*4050	3400 *4050	2900 3250	
	6.0 m	Dozer and stabilizer down (std UC) 2 sets of stabilizers down (std UC)	kg kg							*6800	*6800 *6800	6200 *6800				*4050	*4050 *4050	*4050 *4050	6.96
		Rear dozer up (std UC)	kg				8500	6750	5600	5400	4300 *7250	3600 4100	3800	3000 6150	2500 2850	3600	2850 *3800	2400	
	4.5 m	Rear dozer down (std UC) Dozer and stabilizer down (std UC)	kg kg				W	*9000 *9000	6400 *9000	v====	*7250	6050	V	*6300	4250	v	*3800	2700 *3800	7.70
		2 sets of stabilizers down (std UC) Rear dozer up (std UC)	kg kg				*9000 7900	*9000 6150	*9000 5050	*7250 5150	*7250 4050	7250 3400	*6300 3700	6300 2900	5050 2450	*3800 3300	*3800 2550	*3800 2150	
	3.0 m	Rear dozer down (std UC) Dozer and stabilizer down (std UC)	kg kg					*10 900 *10 900	5850 9000		*8000 *8000	3900 5800		6050 *6650	2800 4150		*3750 *3750	2450 3700	8.09
		2 sets of stabilizers down (std UC)	kg				*10 900	*10 900	*10 900	*8000	*8000	7000	*6650	6200	4950	*3750	*3750	*3750	
	1.5 m	Rear dozer up (std UC) Rear dozer down (std UC)	kg kg				7450	5750 *12 050	4650 5400	4950	3850 8550	3200 3650	3600	2800 5950	2350 2700	3150	2450 *3800	2050 2350	8.17
	1.5111	Dozer and stabilizer down (std UC) 2 sets of stabilizers down (std UC)	kg kg				*12 050	*12 050 *12 050	8500 10 600	*8600	*8600 8600	5600 6750	*6850	6700 6100	4050 4850	*3800	*3800 *3800	3550 *3800	0.17
		Rear dozer up (std UC) Rear dozer down (std UC)	kg kg				7300	5600 *11 850	4500 5250	4800	3700 8400	3050 3550	3550	2750 5900	2250 2600	3250	2550 *4100	2100 2400	
	0.0 m	Dozer and stabilizer down (std UC)	kg				W	*11 850	8350	v	*8700	5450	V	6650	4000	W	*4100	3650	7.96
		2 sets of stabilizers down (std UC) Rear dozer up (std UC)	kg kg	*8450	*8450	*8450	*11 850 7300	*11 850 5600	10 400 4500	*8700 4800	8450 3700	6600 3050	*6700	6000	4750	*4100 3600	*4100 2800	*4100 2300	
	-1.5 m	Rear dozer down (std UC) Dozer and stabilizer down (std UC)	kg kg		*8450 *8450	*8450 *8450		*10 800 *10 800	5250 8350		*8150 *8150	3500 5400					*4650 *4650	2650 4050	7.44
		2 sets of stabilizers down (std UC)	kg	*8450	*8450	*8450	*10 800	*10 800	10 400	*8150	*8150	6550				*4650	*4650	*4650	
		Rear dozer up (std UC) Rear dozer down (std UC)	kg kg	*10 900	*10 900 *10 900	8700 10 400	7400	5700 *8800	4600 5400	4850	3800 *6450	3100 3600				4400	3450 *5200	2850 3250	
	-3.0 m	Dozer and stabilizer down (std UC)	kg		*10 900			*8800	8500		*6450	5500					*5200	4950	6.51

*8800

Short Stick 2200 mm (7'3")

\				10.0 ft			15.0 ft			20.0 ft			25.0 ft			#	=	
	Undercarriage configuration		4	V	Œ.		7	Œ.		P	æ	4	P	Œ	A	P	ŒP	ft
	Rear dozer up (std UC)	lb							12,000	9,600	8,100				*9,000	7,600	6,400	
20.0 ft	Rear dozer down (std UC)	lb								*14,900	9,200					*9,000	7,300	22.64
20.0 11	Dozer and stabilizer down (std UC)	lb								*14,900	13,400					*9,000	*9,000	22.04
	2 sets of stabilizers down (std UC)	lb							*14,900	*14,900	*14,900				*9,000	*9,000	*9,000	
	Rear dozer up (std UC)	lb				18,300	14,600	12,100	11,700	9,300	7,800	8,100	6,400	5,400	8,000	6,300	5,300	
1506	Rear dozer down (std UC)	lb			İ		*19,400	13,800		*15,800	8,900		*10,500	6,100		*8,400	6,000	05.10
15.0 ft	Dozer and stabilizer down (std UC)	lb					*19,400	*19,400		*15,800	13,000		*10,500	9,100		*8,400	*8,400	25.16
	2 sets of stabilizers down (std UC)	lb				*19,400	*19,400	*19,400	*15,800	*15,800	15,600	*10,500	*10,500	*10,500	*8,400	*8,400	*8,400	
	Rear dozer up (std UC)	lb				17,100	13,300	10,900	11,100	8,800	7,300	8,000	6,300	5,200	7,200	5,700	4,700	
1006	Rear dozer down (std UC)	lb			İ		*23,500	12,600		*17,400	8,400		13,100	6,000		*8,200	5,400	00.54
10.0 ft	Dozer and stabilizer down (std UC)	lb			İ		*23,500	19,400		*17,400	12,500		*14,500	8,900		*8,200	8,100	26.51
	2 sets of stabilizers down (std UC)	lb				*23,500	*23,500	*23,500	*17,400	*17,400	15,000	*14,500	13,300	10,700	*8,200	*8,200	*8,200	
	Rear dozer up (std UC)	lb				16,100	12,400	10,100	10,700	8,300	6,900	7,800	6,000	5,000	7,000	5,400	4,500	
F 0.4	Rear dozer down (std UC)	lb					*26,000	11,700		18,300	7,900		12,800	5,800		*8,400	5,200	26.80
5.0 ft	Dozer and stabilizer down (std UC)	lb					*26,000	18,300		*18,700	12,000		14,500	8,700		*8,400	7,900	20.80
	2 sets of stabilizers down (std UC)	lb				*26,000	*26,000	22,700	*18,700	18,500	14,500	*14,800	13,100	10,400	*8,400	*8,400	*8,400	
	Rear dozer up (std UC)	lb				15,700	12,000	9,700	10,400	8,000	6,600	7,600	5,900	4,900	7,200	5,600	4,600	
0.0 ft	Rear dozer down (std UC)	lb					*25,700	11,400		18,000	7,700		12,700	5,700		*9,000	5,300	26.12
0.011	Dozer and stabilizer down (std UC)	lb					*25,700	18,000		*18,900	11,700		14,300	8,600		*9,000	8,100	20.12
	2 sets of stabilizers down (std UC)	lb				*25,700	*25,700	22,300	*18,900	18,200	14,200	*14,500	12,900	10,300	*9,000	*9,000	*9,000	
	Rear dozer up (std UC)	lb	*19,400	*19,400	18,300	15,700	12,000	9,700	10,300	8,000	6,600				7,900	6,200	5,100	
-5.0 ft	Rear dozer down (std UC)	lb		*19,400	*19,400		*23,500	11,300		*17,600	7,600					*10,300	5,900	24.38
-5.011	Dozer and stabilizer down (std UC)	lb		*19,400	*19,400		*23,500	18,000		*17,600	11,700					*10,300	8,900	24.30
	2 sets of stabilizers down (std UC)	lb	*19,400	*19,400	*19,400	*23,500	*23,500	22,300	*17,600	*17,600	14,100				*10,300	*10,300	*10,300	
	Rear dozer up (std UC)	lb	*23,700	*23,700	18,700	16,000	12,300	10,000	10,500	8,200	6,800				9,800	7,600	6,300	
-10.0 ft	Rear dozer down (std UC)	lb		*23,700	22,300		*19,000	11,600		*13,600	7,800					*11,400	7,300	21.23
-10.011	Dozer and stabilizer down (std UC)	lb		*23,700	*23,700		*19,000	18,200		*13,600	11,900					*11,400	11,000	21.23
	2 sets of stabilizers down (std UC)	lb	*23,700	*23,700	*23,700	*19,000	*19,000	*19,000	*13,600	*13,600	*13,600				*11,400	*11,400	*11,400	

*6450

*8800

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 and the Variable Boom Cylinder adjusted to the maximum length. 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.

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

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

Lift Capacities - One-Piece Boom (5650 mm [18'6"])

All values are in kg, without bucket and without QC, with counterweight (4400 kg [9,700 lb]), heavy lift on.

Load at m	aximum re	ach (sticknose/bucket pin)		Load	d over fro	nt		P Load	d over rea	r	(Loa	ıd over si	de		Loa	ad point h	eight	
Medium	> →				3.0 m			4.5 m			6.0 m			7.5 m				=	
Stick 2500 mm		Undercarriage configuration			P	Œ.		4	G		P	ŒP			G		4	GP	m
(8'2")	6.0 m	Rear dozer up (std UC) Rear dozer down (std UC)	kg kg							5600	4500 *6450	3800 4300				*3350	3250 *3350	2750 3100	7.21
		Dozer and stabilizer down (std UC) 2 sets of stabilizers down (std UC)	kg kg							*6450	*6450 *6450	6250 *6450				*3350	*3350 *3350	*3350 *3350	
	4.5 m	Rear dozer up (std UC) Rear dozer down (std UC)	kg kg							5450	4350 *7000	3650 4150	3800	3000 6200	2500 2900	*3250	2700 *3250	2250 2600	7.93
		Dozer and stabilizer down (std UC) 2 sets of stabilizers down (std UC)	kg kg							*7000	*7000 *7000	6100 *7000	*6200	*6200 *6200	4250 5050	*3250	*3250 *3250	*3250 *3250	
	3.0 m	Rear dozer up (std UC) Rear dozer down (std UC) Dozer and stabilizer down (std UC)	kg kg kg				8000	6250 *10 500 *10 500	5150 5900 9100	5200	4100 *7800 *7800	3400 3900 5850	3700	2900 6100 *6500	2450 2800 4150	3150	2450 *3250 *3250	2050 2350 *3250	8.30
		2 sets of stabilizers down (std UC) Rear dozer up (std UC)	kg kg				*10 500 7500	*10 500 5800	*10 500 4700	*7800 4950	*7800 3850	7000 3200	*6500 3600	6200 2800	4950 2350	*3250 3050	*3250 2350	*3250 1950	
	1.5 m	Rear dozer down (std UC) Dozer and stabilizer down (std UC) 2 sets of stabilizers down (std UC)	kg kg kg				*11 850	*11 850 *11 850 *11 850	5450 8550 10 650	*8500	*8500 *8500 *8500	3700 5600 6750	*6750	5950 6700 6100	2650 4050 4850	*3400	*3400 *3400 *3400	2250 *3400 *3400	8.39
	0.0 m	Rear dozer up (std UC) Rear dozer down (std UC) Dozer and stabilizer down (std UC) 2 sets of stabilizers down (std UC)	kg kg kg				7300 *11 950	5600 *11 950 *11 950 *11 950	4500 5250 8350 10 400	4800 *8700	3700 8350 *8700 8450	3050 3550 5450 6600	3500 *6750	2700 5850 6600 6000	2250 2600 3950 4750	3100 *3700	2400 *3700 *3700 *3700	2000 2300 3500 *3700	8.18
	-1.5 m	Rear dozer up (std UC) Rear dozer down (std UC)	kg kg	*9750	*9750 *9750	8400 *9750	7250	5550 *11 100	4500 5250	4750	3650 *8300	3000 3500	3500	2700 5850	2250 2600	3400	2650 *4300	2200 2500	7.67
		Dozer and stabilizer down (std UC) 2 sets of stabilizers down (std UC)	kg kg	*9750	*9750 *9750	*9750 *9750	*11 100	*11 100 *11 100	8300 10 350	*8300	*8300 *8300	5350 6550	*6150	*6150 5950	3950 4750	*4300	*4300 *4300	3850 *4300	-
	-3.0 m	Rear dozer up (std UC) Rear dozer down (std UC) Dozer and stabilizer down (std UC)	kg kg	*12 050	11 200 *12 050 *12 050	8550 10 250 *12 050	7350	5650 *9300 *9300	4550 5300 8400	4800	3700 *6900 *6900	3050 3550 5450				4100	3200 *5450 *5450	2650 3050 4600	6.78
		2 sets of stabilizers down (std UC)	kg kg	*12 050	*12 050	*12 050	*9300	*9300	*9300	*6900	*6900	6600				*5450	*5450 *5450	*5450	

Medium Stick 2500 mm (8'2'')

\>				10.0 ft			15.0 ft			20.0 ft			25.0 ft			₩.	=	
	Undercarriage configuration		4	P	ŒP	4	7	GP	4	P	ŒP	4	P	ŒP	4	P	ŒP	ft
	Rear dozer up (std UC)	lb							12,000	9,700	8,200				*7,500	7,200	6,100	
20.0 ft	Rear dozer down (std UC)	lb								*14,200	9,200					*7,500	6,900	23.46
20.011	Dozer and stabilizer down (std UC)	lb								*14,200	13,400					*7,500	*7,500	23.40
	2 sets of stabilizers down (std UC)	lb							*14,200	*14,200	*14,200				*7,500	*7,500	*7,500	
	Rear dozer up (std UC)	lb							11,700	9,300	7,900	8,200	6,400	5,400	*7,100	6,000	5,000	
15.0 ft	Rear dozer down (std UC)	lb								*15,200	8,900		*12,100	6,200		*7,100	5,800	25.92
15.011	Dozer and stabilizer down (std UC)	lb								*15,200	13,100		*12,100	9,100		*7,100	*7,100	25.92
	2 sets of stabilizers down (std UC)	lb							*15,200	*15,200	*15,200	*12,100	*12,100	10,900	*7,100	*7,100	*7,100	
	Rear dozer up (std UC)	lb				17,200	13,500	11,100	11,200	8,800	7,400	8,000	6,300	5,200	6,900	5,400	4,500	
10.0 ft	Rear dozer down (std UC)	lb					*22,600	12,800		*16,900	8,400		13,100	6,000		*7,100	5,200	27.23
10.011	Dozer and stabilizer down (std UC)	lb					*22,600	19,600		*16,900	12,600		*14,100	8,900		*7,100	*7,100	21.23
	2 sets of stabilizers down (std UC)	lb				*22,600	*22,600	*22,600	*16,900	*16,900	15,100	*14,100	13,300	10,700	*7,100	*7,100	*7,100	
	Rear dozer up (std UC)	lb				16,200	12,500	10,100	10,700	8,300	6,900	7,700	6,000	5,000	6,700	5,200	4,300	
5.0 ft	Rear dozer down (std UC)	lb					*25,600	11,800		*18,400	7,900		12,800	5,800		*7,500	5,000	27.53
3.011	Dozer and stabilizer down (std UC)	lb					*25,600	18,500		*18,400	12,000		14,400	8,700		*7,500	*7,500	27.33
	2 sets of stabilizers down (std UC)	lb				*25,600	*25,600	22,900	*18,400	*18,400	14,500	*14,700	13,100	10,400	*7,500	*7,500	*7,500	
	Rear dozer up (std UC)	lb				15,700	12,000	9,700	10,300	8,000	6,600	7,600	5,900	4,900	6,900	5,300	4,400	
0.0 ft	Rear dozer down (std UC)	lb					*25,900	11,300		18,000	7,600		12,600	5,600		*8,200	5,100	26.84
0.011	Dozer and stabilizer down (std UC)	lb					*25,900	18,000		*18,900	11,700		14,200	8,500		*8,200	7,700	20.04
	2 sets of stabilizers down (std UC)	lb				*25,900	*25,900	22,300	*18,900	18,100	14,200	*14,600	12,900	10,200	*8,200	*8,200	*8,200	
	Rear dozer up (std UC)	lb	*22,200	*22,200	18,100	15,600	12,000	9,600	10,200	7,900	6,500	7,600	5,900	4,800	7,500	5,800	4,800	
_5.0 ft	Rear dozer down (std UC)	lb		*22,200	21,600		*24,100	11,300		17,800	7,500		*11,400	5,600		*9,500	5,600	25.13
-3.011	Dozer and stabilizer down (std UC)	lb		*22,200	*22,200		*24,100	17,900		*17,900	11,600		*11,400	8,500		*9,500	8,500	23.13
	2 sets of stabilizers down (std UC)	lb	*22,200	*22,200	*22,200	*24,100	*24,100	22,200	*17,900	*17,900	14,100	*11,400	*11,400	10,200	*9,500	*9,500	*9,500	
	Rear dozer up (std UC)	lb	*26,100	24,000	18,400	15,800	12,100	9,800	10,400	8,000	6,600				9,100	7,100	5,900	
_10.0 ft	Rear dozer down (std UC)	lb		*26,100	22,000		*20,100	11,500		*14,800	7,600					*12,000	6,700	22.15
-10.011	Dozer and stabilizer down (std UC)	lb		*26,100	*26,100		*20,100	18,100		*14,800	11,700					*12,000	10,200	22.13
	2 sets of stabilizers down (std UC)	lb	*26,100	*26,100	*26,100	*20,100	*20,100	*20,100	*14,800	*14,800	14,200				*12,000	*12,000	*12,000	

^{*}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 and the Variable Boom Cylinder adjusted to the maximum length. 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 – One-Piece Boom (5650 mm [18'6"])

2 sets of stabilizers down (std UC)

Dozer and stabilizer down (std UC)

2 sets of stabilizers down (std UC)

Rear dozer up (std UC)

Rear dozer down (std UC)

All values are in kg, without bucket and without QC, with counterweight (4400 kg [9,700 lb]), heavy lift on.

*13 350

kg

kg

kg

kg

kg

*13 350

*13 350

→ T Load point height Load at maximum reach (sticknose/bucket pin) Load over front Load over rear Load over side 3.0 m 4.5 m 6.0 m 7.5 m Long Stick 4 9 9 m Undercarriage configuration 2900 mm Rear dozer up (std UC) *3850 3050 2550 *2800 *2800 2450 (9'6'')Rear dozer down (std UC) *3850 2950 *2800 *2800 7.66 Dozer and stabilizer down (std UC) kg *3850 *3850 *2800 *2800 *3850 *2800 2 sets of stabilizers down (std UC) kg *3850 *3850 *2800 *2800 Rear dozer up (std UC) 5500 4350 3700 3800 3000 2550 *2700 2500 2050 kg Rear dozer down (std UC) kg *6600 4150 *5900 2900 *2700 2400 8.34 4.5 m Dozer and stabilizer down (std UC) *5900 *2700 kg *6600 4250 *2700 2 sets of stabilizers down (std UC) *6600 *6600 *6600 *5900 *5900 5100 *2700 *2700 *2700 kg 8100 6350 5200 4100 3450 2900 2450 1850 Rear dozer up (std UC) 2250 kg Rear dozer down (std UC) *9900 *7500 3900 6100 2800 *2700 2150 kg 3.0 m 8.69 Dozer and stabilizer down (std UC) kg *9900 9200 *7500 5850 *6250 4150 *2700 *2700 *2700 2 sets of stabilizers down (std UC) *9900 *9900 *9900 *7500 *7500 *6250 6200 *2700 *2700 7050 4950 kg 7550 5800 4700 3850 3200 3550 2300 *2800 2150 Rear dozer up (std UC) 2800 1800 kg Rear dozer down (std UC) *11 500 *8250 5950 2650 5500 3700 *2800 2100 kg 8.77 Dozer and stabilizer down (std UC) *11 500 *8250 5600 4000 *2800 kg 8600 *6600 *2800 2 sets of stabilizers down (std UC) *11 500 kg *11 500 10 700 *8250 *8250 6750 *6600 6050 4800 *2800 *2800 *2800 Rear dozer up (std UC) 7250 5550 4450 4750 3700 3000 3450 2700 2200 2850 2200 1800 *11 950 Rear dozer down (std UC) 5200 8350 3500 5800 2550 *3050 2100 0.0 m 8.58 Dozer and stabilizer down (std UC) *11 950 8300 *8650 5400 6600 3900 *3050 *3050 2 sets of stabilizers down (std UC) *11 950 *11 950 10 350 *8650 8400 6550 *6750 5950 4700 *3050 *3050 *3050 kg Rear dozer up (std UC) *9250 *9250 8200 5450 3600 2950 2650 2200 2400 1950 kg Rear dozer down (std UC) *9250 *11 400 3450 kg *3500 2300 -1.5 m 8.10 Dozer and stabilizer down (std UC) kg *9250 *9250 *11 400 8250 *8400 5300 *6400 3900 *3500 *3500 2 sets of stabilizers down (std UC) *9250 *9250 *11 400 *11 400 10 300 8300 6450 *6400 5900 4650 *3500 *3500 kg Rear dozer up (std UC) 10 950 8400 5550 4450 3650 2950 2850 2350 kg Rear dozer down (std UC) 10 050 *7350 3450 *4400 13 350 *9900 5200 2700 kq -3.0 m 7.26 Dozer and stabilizer down (std UC) ⁴13 350 *9900 8300 *7350 5350 *4400 4100 kq 13 350

*9900

*7000

*7000

*9900

5750

*7000

*7000

*7000

*9900

4650

5400

*7000

*7000

*7350

*7350

6500

*4400

*4400

*4400

Long Stick 2900 mm (9'6")

\				10.0 ft			15.0 ft			20.0 ft			25.0 ft				=	
	Undercarriage configuration		4	P	ŒP	4	V	ŒP	4	P	ŒP	0	A	4	4	P	GP	ft
	Rear dozer up (std UC)	lb													*6,200	*6,200	5,500	
20.0 ft	Rear dozer down (std UC)	lb														*6,200	*6,200	24.93
20.0 11	Dozer and stabilizer down (std UC)	lb														*6,200	*6,200	24.93
	2 sets of stabilizers down (std UC)	lb													*6,200	*6,200	*6,200	
	Rear dozer up (std UC)	lb							11,800	9,400	7,900	8,200	6,500	5,400	*5,900	5,500	4,600	
45.06	Rear dozer down (std UC)	lb								*14,400	9,000		*12,900	6,200		*5,900	5,300	
15.0 ft	Dozer and stabilizer down (std UC)	lb								*14,400	13,200		*12,900	9,200		*5,900	*5,900	27.26
	2 sets of stabilizers down (std UC)	lb							*14,400	*14,400	*14,400	*12,900	*12,900	10,900	*5,900	*5,900	*5,900	
	Rear dozer up (std UC)	lb				17,500	13,700	11,300	11,200	8,900	7,400	8,000	6,200	5,200	*5,900	5,000	4,100	
4006	Rear dozer down (std UC)	lb					*21,300	13,000		*16,200	8,500		13,100	6,000		*5,900	4,800	00.54
10.0 ft	Dozer and stabilizer down (std UC)	lb					*21,300	19,800		*16,200	12,600		*13,600	8,900		*5,900	*5,900	28.51
	2 sets of stabilizers down (std UC)	lb				*21,300	*21,300	*21,300	*16,200	*16,200	15,200	*13,600	13,400	10,700	*5,900	*5,900	*5,900	
	Rear dozer up (std UC)	lb				16,300	12,600	10,200	10,700	8,300	6,900	7,700	6,000	5,000	*6,200	4,800	4,000	
	Rear dozer down (std UC)	lb					*24,900	11,900	-	*17,900	7,900		12,800	5,700		*6,200	4,600	
5.0 ft	Dozer and stabilizer down (std UC)	lb					*24,900	18,500		*17,900	12,000		*14,300	8,700		*6,200	*6,200	28.77
	2 sets of stabilizers down (std UC)	lb				*24,900	*24,900	23,000	*17,900	*17,900	14,600	*14,300	13,000	10,400	*6,200	*6,200	*6,200	
	Rear dozer up (std UC)	lb				15,600	11,900	9,600	10,300	7,900	6,500	7,500	5,800	4,800	6,300	4,900	4,000	
	Rear dozer down (std UC)	lb					*25,900	11,300		17,900	7,600		12,500	5,500		*6,700	4,700	
0.0 ft	Dozer and stabilizer down (std UC)	lb					*25,900	17,900		*18,700	11,600		14,200	8,400		*6,700	*6,700	28.15
	2 sets of stabilizers down (std UC)	lb				*25,900	*25,900	22,300	*18,700	18,100	14,100	*14,600	12,800	10,200	*6,700	*6,700	*6,700	
	Rear dozer up (std UC)	lb	*21,100	*21,100	17,600	15,400	11,800	9,500	10,100	7,800	6,400	7,400	5,700	4,700	6,900	5,300	4,400	
- o (:	Rear dozer down (std UC)	lb		*21,100	*21,100		*24,700	11,100		17,700	7,400		12,400	5,400		*7,700	5,000	
−5.0 ft	Dozer and stabilizer down (std UC)	lb		*21,100	*21,100		*24,700	17,700		*18,200	11,500		*13,700	8,400		*7,700	7,700	26.51
	2 sets of stabilizers down (std UC)	lb	*21,100	*21,100	*21,100	*24,700	*24,700	22,100	*18,200	17,900	13,900	*13,700	12,700	10,100	*7,700	*7,700	*7,700	
	Rear dozer up (std UC)	lb	*28,900	23,500	18,000	15,600	11,900	9,600	10,200	7,800	6,400				8,100	6,300	5,200	
4006	Rear dozer down (std UC)	lb		*28,900	21,600		*21,300	11,200		*15,800	7,400					*9,800	6,000	
-10.0 ft	Dozer and stabilizer down (std UC)	lb		*28,900	*28,900		*21,300	17,800		*15,800	11,500					*9,800	9,200	23.69
	2 sets of stabilizers down (std UC)	lb	*28,900	*28,900	*28,900	*21,300	*21,300	*21,300	*15,800	*15,800	14,000				*9,800	*9,800	*9,800	
	Rear dozer up (std UC)	lb				*14,700	12,400	10,000										
45.01	Rear dozer down (std UC)	lb				-	*14,700	11,700										
-15.0 ft	Dozer and stabilizer down (std UC)	lb					*14,700	*14,700										
	2 sets of stabilizers down (std UC)	lb				*14,700	*14,700	*14,700										

^{*}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 and the Variable Boom Cylinder adjusted to the maximum length. 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.

M322D Wheel Excavator Standard Equipment

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

Electrical

Alternator, 75 A

Lights

Boom working light

Cab interior light

Roading lights two front

Roading lights two LED modules rear

Rotating beacon on cab

Working lights, cab mounted

(front and rear)

Main shut-off switch

Maintenance free batteries

Signal/warning horn

Engine

Automatic engine speed control

Automatic starting aid

Cat C6.6 with ACERT Technology

EPA Tier 3 compliant

Fuel/water separator with level indicator

Hydraulics

Heavy lift mode

Load-sensing Plus hydraulic system

Manual work modes (economy, power)

Separate swing pump

Stick regeneration circuit

Operator Station

ROPS cab structure compliant with 2006/42/EC and tested according

to ISO 12117-2:2008

Adjustable armrests

Air conditioner, heater and defroster with automatic climate control

Ash tray with cigarette lighter (24 volt)

Beverage cup/can holder

Bolt-on FOGS capability

Bottle holder

Bottom mounted parallel wiping system that covers the upper and lower

windshield glass

Camera mounted on counterweight displays

through cab monitor

Coat hook

Floor mat, washable, with storage

compartment

Fully adjustable mechanical suspension seat

Instrument panel and gauges

Information and warning messages

in local language

Gauges for fuel level, engine coolant

and hydraulic oil temperature

Filters/fluids change interval

Indicators for headlights, turning signal,

low fuel, engine dial setting

Clock with 10-day backup battery

Laminated front windshield

Left side console, tiltable, with lock out

for all controls

Literature compartment behind seat

Literature holder in right console

Mobile phone holder

Parking brake

Positive filtered ventilation

Power supply, 12V-7A

Rear window, emergency exit

Retractable seat belt

Skylight

Sliding door windows

Steering column, tiltable

Storage area suitable for a lunch box

Sunshade for windshield and skylight

Undercarriage

Heavy-duty axles, advanced travel motor, adjustable braking force

Oscillating front axle with remote greasing

Tires, 11.00-20 16 PR, dual

Tool box in undercarriage

Second tool box for undercarriage

Two-piece drive shaft

Other Equipment

Automatic swing brake

Counterweight, 3900 kg

Mirrors, frame and cab

Product Link ready

Tool box in upperframe, lockable

M322D Wheel Excavator Optional Equipment

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

Auxiliary Controls and Lines

Auxiliary boom and stick lines Anti-drift valves for bucket, stick, VA boom and tool control/multi-function circuits Basic control circuits:

Single action

One-way, high pressure circuit, for hammering application

Medium pressure

Two-way, medium pressure circuit, for rotating or tilting of work tools

Tool control/multi function

One/two-way high pressure for hammer application or opening and closing of a work tool

Programmable flow and pressure for up to 10 work tools - selection via monitor

Second high pressure

Additional two-way, high pressure circuit, for tools requiring a second high or medium pressure function

Ouick coupler control

Cat BIO HYDO Advanced HEESTM biodegradable hydraulic oil

Generator with valve and priority function Lowering control devices for boom and stick

 $SmartBoom^{TM}$

Front Linkage

Booms

One-piece boom, 5650 mm VA boom (two piece), 5440 mm Bucket linkage with diverter valve Sticks

2200, 2500, 2900 mm

Electrical

Back-up alarm Heavy-duty maintenance free batteries Refueling pump

Operator Station

Adjustable hydraulic sensitivity CD/MP3 Radio (12V) at rear location including speakers and 12V converter Falling objects guard Joystick steering Seat, adjustable high-back

- air suspension (vertical)
- deluxe with headrest, air suspension Headrest

Travel speed lock Vandalism guards Visor for rain protection

Windshield

One-piece high impact resistant 70/30 split, openable

Undercarriage

Dozer blade, rear mounted Outriggers, front and/or rear mounted Spacer rings for tires

Other Equipment

Auto-lube system (implements and swing gear) Cat Machine Security System Cat Product Link Counterweight, 4400 or 5400 kg Mirrors heated, frame and cab Ride Control Tires (see pg.15) Waste Handling Package

M322D Wheel Excavator

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

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