





Engine

Engine Model

Net power (ISO 9249) at 2,000 rpm Weights Operating Weight Cat[®] C6.6 with ACERT™ Technology 123 kW (167 hp)

20 500 to 22 500 kg

Bucket Specifications							
Bucket Capacities	0.44 to 1.57 m ³						
Working Ranges							
Maximum Reach at Ground Level	10 320 mm						
Maximum Digging Depth	6680 mm						
Drive							
Maximum Travel Speed	25 km/h						

Features

Engine

The EU Stage IIIA 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 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 EU Stage IIIA engine emission regulations. The Cat C6.6 engine in the M322D delivers a maximum gross power of 129 kW at a rated speed of 2,000 rpm.

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 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 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 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 new EU Stage IIIA 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 HEES[™] 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 easyto-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 comes with 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.

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 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

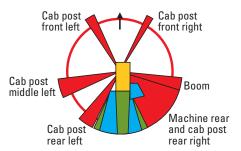
Two-way pedals for travel and auxiliary circuits provide increased floor space, reducing the need to change positions. The foot pedal for auxiliary high-pressure circuit can be locked in the off position and used as a footrest for greater operator comfort.

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



Legend:

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.

Adjustable Travel Alarm

An adjustable travel alarm is available to warn people when the machine is moving. Three settings can be selected through the monitor:

- Auto mode alarm will stop sounding immediately when the machine is no longer traveling, or has been sounding for an uninterrupted 10-second interval.
- Standard mode alarm operates constantly during moving, with only manual cancellation.
- Off mode travel alarm is disabled.

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 flexibility.

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:

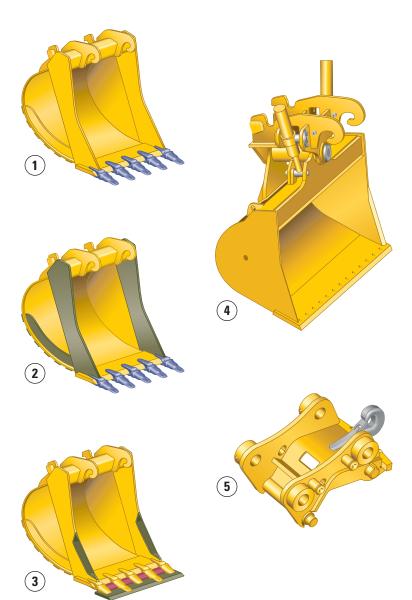
- Short stick (2200 mm) for maximum breakout force and lifting capability.
- Medium stick (2500 mm) for greater crowd force and lift capacity.
- Long stick (2900 mm) for greater depth and reach requirements.





Work Tools

A wide variety of Work Tools help optimize machine performance.



Work Tools

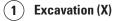
Cat work tools are designed to function as an integral part of your excavator and to provide the best possible performance in your particular application. All work tools are performance-matched to Cat machines.

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.



- **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 tine and shell versions.

Multi-Grapples

The Multi-Grapple with unlimited left and right rotation is the ideal tool for stripping, sorting, handling and loading. The powerful closing force of the grab shells combined with fast opening/closing time ensures rapid cycle time which translates to more tons per hour.

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 $S \cdot O \cdot S^{SM}$ 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 air cleaner 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.

New LED Rear Lights

Standard Light Emitting Diode (LED) rear lights replace the standard lights, for 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.

Control Settings

There are 2 selectable control settings 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 can assist with Fleet Management to keep track of hours, location, security and product health. The machine is prewired to accept Product Link systems to be installed in the field. Product Link is also available as a factory installed attachment.

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.

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.

Engine	
Engine Model	Cat [®] C6.6 with ACERT [™] Technology
Ratings	2,000 rpm
Gross Power	129 kW (175 hp)
Net Power	
ISO 9249	123 kW (167 hp)
80/1269/EEC	123 kW (167 hp)
Bore	105 mm
Stroke	127 mm
Displacement	6.6 L
Cylinders	6
Maximum Torque at 1,400 rpm	750 N·m

• All engine horsepower (hp) are metric including front page.

- EU Stage IIIA compliant.
- Full engine net power up to 3000 m altitude.

Hydraulic System

Tank Capacity	220 L
System	350 L
Maximum Pressure	
Implement Circuit	
Normal	350 bar
Heavy Lift	375 bar
Travel Circuit	350 bar
Auxiliary Circuit	
High Pressure	350 bar
Medium Pressure	185 bar
Swing Mechanism	340 bar
Maximum Flow	
Implement/Travel Circuit	350 L/min
Auxiliary Circuit	
High Pressure	250 L/min
Medium Pressure	50 L/min
Swing Mechanism	112 L/min

Weights	
VA Boom*	
Rear Dozer Only	19 650 kg
Rear Dozer, Front Outriggers	20 850 kg
Front and Rear Outriggers	21 100 kg
One-Piece Boom*	
Rear Dozer Only	19 000 kg
Rear Dozer, Front Outriggers	20 200 kg
Front and Rear Outriggers	20 450 kg
Sticks	
Short (2200 mm)	650 kg
Medium (2500 mm)	700 kg
Long (2900 mm)	780 kg
Dozer Blade	920 kg
Outriggers	1260 kg
Counterweight	
Standard	3900 kg
Optional	4400/5400 kg
	1

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

Transmission

Forward/Reverse	
1st Gear	7 km/h
2nd Gear	25 km/h
Creeper Speed	
1st Gear	3 km/h
2nd Gear	12 km/h
Drawbar Pull	112 kN
Maximum Gradeability	60%

Swing Mechanism

Swing Speed	9 rpm
Swing Torque	56 kN·m

Tires

Standard

• 11.00-20 (dual pneumatic)

Optional

• 10.00-20 (dual solid rubber)

Undercarriage

Ground Clearance	380 mm
Maximum Steering Angle	35°
Oscillation Axle Angle	± 9°
Minimum Turning Radius	
Standard Axle	
Outside of Tire	6800 mm
End of VA Boom	7800 mm
End of One-Piece Boom	9300 mm

Service Refill Capacities

Fuel Tank	385 L
Cooling	37 L
Engine Crankcase	15 L
Rear Axle Housing (differential)	14 L
Front Steering Axle (differential)	11 L
Final Drive	2.5 L
Powershift Transmission	2.5 L

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).

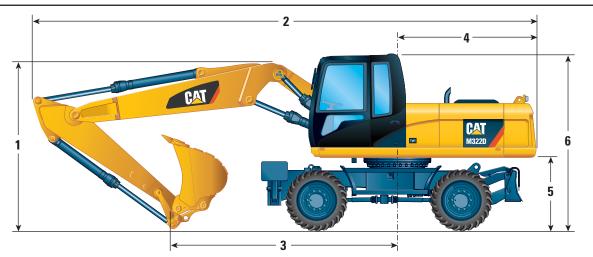
Cab/ROPS/FOGS

- 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.

M322D Wheel Excavator Specifications

Dimensions

All dimensions are approximate.



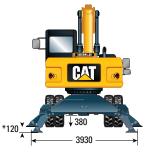
Stick Length			VA Boom		One-Piece Boom					
	mm	2200	2500	2900	2200	2500	2900			
1 Shipping Height	mm	3260	3230	3250	3300	3250	3290			
2 Shipping Length	mm	9430	9440	9430	9650	9640	9650			
3 Support Point	mm	4160	3660	3420	4240	3720	3440			
4 Tail Swing Radius	mm		2820			2820				
5 Counterweight Clearance	mm		1310			1310				
6 Cab Height	mm		3200			3200				
With 1200 mm Fixed Cab Riser	mm		4400			4400				



Undercarriage with dozer only



* Maximum tire clearance with outrigger fully down



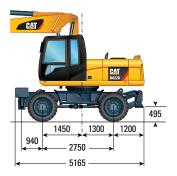
Undercarriage with 2 sets of outriggers



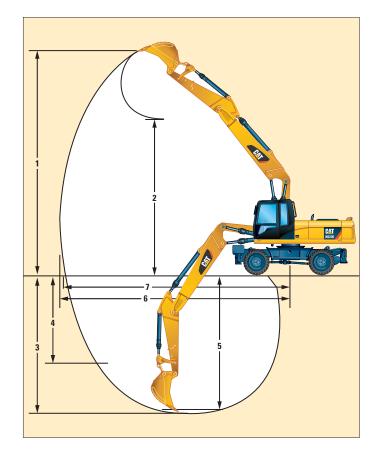
Roading position with 2500 mm stick

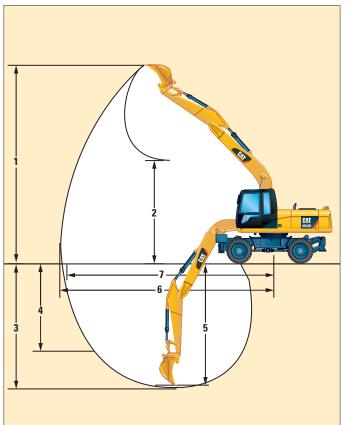


Undercarriage with 1 set of outriggers and dozer



Working Ranges





			VA Boom		0	ne-Piece Boo	m
Stick Length	mm	2200	2500	2900	2200	2500	2900
1 Digging Height	mm	10 560	10 620	10 930	9670	9540	9760
2 Dump Height	mm	6930	7170	7500	6300	6230	6450
3 Digging Depth	mm	5990	6280	6680	5770	6070	6470
4 Vertical Wall Digging Depth	mm	4420	4450	4830	4480	4780	5160
5 Depth 2.5 m Straight Clean-Up	mm	5780	6090	6510	5570	5880	6300
6 Reach	mm	9770	10 000	10 390	9890	10 100	10 490
7 Reach at Ground Level	mm	9590	9830	10 230	9720	9930	10 320
Bucket Forces (ISO 6015)	kN	140	140	140	140	140	140
Stick Forces (ISO 6015)	kN	123	114	104	123	114	104

Values 1-7 are calculated with bucket and quick coupler with a tip radius of 1712 mm.

Breakout force values are calculated with heavy lift on (no quick coupler) and a tip radius of 1511 mm.

Bucket Specifications

Contact your Cat dealer for special bucket requirements.

Pin-On Buckets	Buckets					Variable Adjustable Boom 5440 mm										One-Piece Boom 5650 mm													
Stick Length						2200	mm		2500 mm				2900 mm				2200 mm				2500 mm					2900 mm			
	Width	Weight*	Capacity (ISO)	Adapters	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	
	mm	kg	m ³		上	ŏ	1	Ъ	노	ă	÷	Ŀ	Ъ	ŏ	-	Ŀ	노	Ď	1	Ŀ	노	ŏ	-	교	上	ă	-	Ŀ	
	600	564	0.44	3																									
	750	593	0.59	3																									
	1000	698	0.86	4																									
Excavation	1200 1250	783 800	1.08 1.13	5																					<u> </u>				
	1200	818	1.13	5																	_				<u> </u>				
	1400	853	1.30	5																									
	1500	888	1.41	5																									
	600	589	0.44	3																									
	750	620	0.59	3																									
Extreme Excavation	1250	827	1.13	4																									
	1300	864	1.18	5																									
	1400	901	1.30	5																									
	750	625	0.64	3																									
Excavation (leveling)	1000	741	0.94	4																									
Executation (leveling)	1200	837	1.19	5																									
	1400	919	1.45	5																									
Extreme Excavation (leveling)	1200	865	1.19	4																									
Ditch Cleaning	1800	690	1.05																										
2.con orouning	2000	750	1.18																										
Tiltable Ditch Cleaning	1800 2000	1010 1060	0.88 0.98																										
*Bucket weight includes Gr	ound Eng	laging To	ols					n mate 300 kg						n mate 500 kç						n mate 200 kç				Not	reco	nmen	ded		

Bucket Specifications

Contact your Cat dealer for special bucket requirements.

CW Quick Coupler Buck	ets							Vari	iable		ustab) mm	le Bo	oom								One	-Pie 5650		oom				
Stick Length						2200	mm			2500) mm			2900	mm			2200	mm			2500	mm			2900	mm	
	Width	. Weight*	, Capacity (ISO)	Adapters	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized
	mm 600	kg 544	m ³ 0.44	3	Ē		1	Ē	цĒ		-	Ē	Ē		-	Ē	Ē		1	Ē	Ē	D	1	Ē	Ē		-	Ē
	750	544 585	0.44	3																								
	ration 1000 662 0.86 1200 242 1.08 1250 764 1.13																											
	1200	242	1.08	5																								
Excavation	1250	764	1.13	5																								
	1300	782	1.19	5																								
	1400	817	1.30	5																								
	1500	852	1.41	5																								
	600	572	0.44	3																								
	750	615	0.59	3																								
Extreme Excavation	1250	791	1.13	4					_																			
	1300 1400	828 865	1.18 1.30	4 5																								
	750	625	0.64	3																								
	1000	705	0.94	4																								
Excavation (leveling)	1200	802	1.19	5																								
	1400	882	1.45	5																								
	1500	923	1.57	5																								
Extreme Excavation (leveling)	1200	828	1.19	4																								
Ditch Cleaning	1800	650	1.05																									
	2000	710	1.18																									
Tiltable Ditch Cleaning	1800 2000	970 1020	0.88 0.98																									
*Bucket weight includes Gr	ound Eng	aging To	ols					n mate 800 kç						n mate 500 kç						n mate 200 kg				Not	recoi	nmen	ded	

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	5	440 mi								5	Piece 650 mi	n			
				Dozer owere		of s	2 sets stabiliz owere	ers	and	Dozer I stabil owere	izer		Dozer owere		ofs	2 sets stabiliz owere	ers	and	Dozer stabil owere	
Without Quick Coupler	Stick	Length (mm)	2200	2500	2900	2200	2500	2900	2200	2500	2900	2200	2500	2900	2200	2500	2900	2200	2500	2900
Hammers	H115 S, H12	OC S, H130 S																		
	MP15	CC, CR																		
	MP15	PP																		
Multiprocessors	MP15	PS																		
	MP15	S																		
	MP20	S																		
	S320B																			
Hydraulic Shears	S325B*																			
(* boom mounted)	S340B*																			
	33400	D																		
Multi-Grapples	G315B	R																		
0	CV/D110	n																		
Compactor	CVP110																			
Crushers	P315																			
		400																		
	GSH15B	500																		
	5 tines	600																		
		800																		
		400																		
	GSH15B	500																		
	4 tines	600																		
Orange Peel Grapples		800																		
		600																		
	GSH20B	800																		
	5 tines	1000																		
		600																		
	GSH20B	800																		
	4 tines																			
	Date	1000																		
Pulverizers	P215																			
With Quick Coupler (CW-40																				
Hammers		20C S, H130 S																		
	MP15	CC																		
Multiprocessors	MP15	CR, S																		
	MP15	PP																		
	MP15	PS																		
Hydraulic Shear	S320B																			
Multi-Grapples	G315B	D																		
mulu-ul apples	G315B	R																		
Compactor	CVP110																			
Crushers	P315																			
Pulverizers	P215			İ																
						Workii the fro	-	-						Maxi	imum r imum r imum r	nateria	al dens	ity 180		3

Lift Capacities – Variable Adjustable Boom (5440 mm)

All values are in kg, without bucket and without QC, with counterweight (4400 kg), heavy lift on.

Load at m	naximum re	ach (sticknose/bucket pin)	Load	l over fro	nt		P Loa	d over rea	r	I	Loa	d over si	de		Loa	ad point h	eight	
Short				3.0 m			4.5 m			6.0 m			7.5 m			Ŕ	-	
Stick 2200 mm		Undercarriage configuration	Ð	6	P	Ð	6	P	Ð	6	P	Ð	6	P	P	9	P	m
2200 11111		Rear dozer up (std UC)				*8000	7250	6050	5600	4500	3750				*4100	3550	2950	
	6.0 m	Rear dozer down (std UC)					*8000	6850		*7100	4250					*4100	3350	6.80
	0.0 111	Dozer and stabilizer down (std UC)					*8000	*8000		*7100	6250					*4100	*4100	0.00
		2 sets of stabilizers down (std UC)				*8000	*8000	*8000	*7100	*7100	*7100				*4100	*4100	*4100	
		Rear dozer up (std UC)				8650	6850	5650	5450	4350	3600	3750	2950	2450	3700	2900	2400	
	4.5 m	Rear dozer down (std UC)					*9250	6450		*7300	4150		*5050	2850		*3750	2800	7.56
	4.3 11	Dozer and stabilizer down (std UC)					*9250	*9250		*7300	6100		*5050	4250		*3750	*3750	7.50
		2 sets of stabilizers down (std UC)				*9250	*9250	*9250	*7300	*7300	*7300	*5050	*5050	5050	*3750	*3750	*3750	
		Rear dozer up (std UC)				8000	6250	5100	5200	4100	3400	3700	2900	2400	3350	2600	2150	
	20-	Rear dozer down (std UC)					*10 950	5900		*7800	3900		6150	2750		*3650	2500	7.96
	3.0 m	Dozer and stabilizer down (std UC)					*10 950	9100		*7800	5850		*6200	4150		*3650	*3650	7.90
		2 sets of stabilizers down (std UC)				*10 950	*10 950	*10 950	*7800	*7800	7050	*6200	*6200	5000	*3650	*3650	*3650	
		Rear dozer up (std UC)				7500	5750	4650	4950	3850	3200	3600	2800	2300	3250	2500	2100	
	1.5	Rear dozer down (std UC)					*11 950	5450		*8500	3650		6050	2650		*3700	2400	0.04
	1.5 m	Dozer and stabilizer down (std UC)					*11 950	8600		*8500	5600		*6500	4050		*3700	3650	8.04
		2 sets of stabilizers down (std UC)				*11 950	*11 950	10 700	*8500	*8500	6800	*6500	6150	4900	*3700	*3700	*3700	
		Rear dozer up (std UC)				7300	5600	4500	4800	3700	3050	3550	2750	2250	3350	2600	2150	
		Rear dozer down (std UC)					*11 650	5250		8500	3550		5950	2600		*3900	2450	7.00
	0.0 m	Dozer and stabilizer down (std UC)					*11 650	8400		*8600	5450		*6500	4000		*3900	3800	7.83
		2 sets of stabilizers down (std UC)				*11 650	*11 650	10 500	*8600	8550	6650	*6500	6100	4800	*3900	*3900	*3900	
		Rear dozer up (std UC)				7300	5600	4500	4800	3700	3000				3700	2900	2350	
		Rear dozer down (std UC)					*10 400	5250		*7800	3500					*4400	2750	
	–1.5 m	Dozer and stabilizer down (std UC)					*10 400	8400		*7800	5450					*4400	4200	7.30
		2 sets of stabilizers down (std UC)				*10 400	*10 400	*10 400	*7800	*7800	6600				*4400	*4400	*4400	
Medium				3.0 m			4.5 m			6.0 m			7.5 m			4	-	
	→ -								-	0					_			
Stick		Undercarriage configuration	Q	9	P	ę,	6	P	0	hg		8	6	P	8	6	P	m
Stick 2500 mm		Undercarriage configuration Rear dozer up (std UC)	ų	P	Þ	ŀ	6	P	5650	4500	3800	6	10	P	*3350	3350	2800	m
Stick			ł,	6	P	ł	<u>6</u>	Ē				<u></u>	<u>'</u>	P				
Stick	6.0 m	Rear dozer up (std UC)	Ŀ	6	P	Ð	<u>-</u>	Ē		4500	3800	<u></u>	<u>"</u>	P		3350	2800	m 7.08
Stick	6.0 m	Rear dozer up (std UC) Rear dozer down (std UC)	Ŀ	P	P	P.	P	Ē		4500 *6800	3800 4300	<u></u>	<u>v</u> j	Ē		3350 *3350	2800 3200	

6.0 m	Rear dozer down (std UC)								*6800	4300					*3350	3200	7.08
0.0 111	Dozer and stabilizer down (std UC)								*6800	6300					*3350	*3350	7.00
	2 sets of stabilizers down (std UC)							*6800	*6800	*6800				*3350	*3350	*3350	
	Rear dozer up (std UC)				8750	6950	5750	5500	4350	3650	3800	3000	2500	*3150	2750	2300	
4.5 m	Rear dozer down (std UC)					*8800	6550		*7150	4150		*5800	2850		*3150	2650	7.81
4.0 111	Dozer and stabilizer down (std UC)					*8800	*8800		*7150	6150		*5800	4250		*3150	*3150	7.01
	2 sets of stabilizers down (std UC)				*8800	*8800	*8800	*7150	*7150	*7150	*5800	*5800	5100	*3150	*3150	*3150	
	Rear dozer up (std UC)				8100	6350	5150	5250	4100	3400	3700	2900	2400	*3150	2500	2050	
3.0 m	Rear dozer down (std UC)					*10 600	5950		*7600	3900		*6050	2750		*3150	2400	8.19
3.0 m	Dozer and stabilizer down (std UC)					*10 600	9200		*7600	5900		*6050	4150		*3150	*3150	0.19
	2 sets of stabilizers down (std UC)				*10 600	*10 600	*10 600	*7600	*7600	7100	*6050	*6050	5000	*3150	*3150	*3150	
	Rear dozer up (std UC)				7550	5800	4700	5000	3850	3200	3600	2800	2300	3100	2400	1950	
1.5 m	Rear dozer down (std UC)					*11 800	5450		*8300	3700		6050	2650		*3250	2300	8.28
1.5 m	Dozer and stabilizer down (std UC)					*11 800	8650		*8300	5650		*6350	4050		*3250	*3250	0.20
	2 sets of stabilizers down (std UC)				*11 800	*11 800	10 750	*8300	*8300	6850	*6350	6150	4850	*3250	*3250	*3250	
	Rear dozer up (std UC)				7300	5600	4450	4800	3700	3050	3500	2700	2250	3200	2450	2000	
0.0 m	Rear dozer down (std UC)					*11 800	5250		8500	3500		5950	2600		*3500	2350	8.07
0.0 111	Dozer and stabilizer down (std UC)					*11 800	8400		*8600	5450		*6600	3950		*3500	*3500	0.07
	2 sets of stabilizers down (std UC)				*11 800	*11 800	10 500	*8600	8550	6650	*6600	6050	4800	*3500	*3500	*3500	
	Rear dozer up (std UC)	*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)		*10 000	*10 000		*10 750	5200		*8000	3450		*5200	2600		*4050	2550	7.55
-1.5 111	Dozer and stabilizer down (std UC)		*10 000	*10 000		*10 750	8350		*8000	5400		*5200	4000		*4050	3950	7.55
	2 sets of stabilizers down (std UC)	*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)				7400	5650	4550	4850	3750	3050							
-3.0 m	Rear dozer down (std UC)					*8650	5300		*6300	3550							
-3.0 111	Dozer and stabilizer down (std UC)					*8650	8450		*6300	5500							
	2 sets of stabilizers down (std UC)				*8650	*8650	*8650	*6300	*6300	*6300							
	•																

*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 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.

Lift Capacities – Variable Adjustable Boom (5440 mm)

All values are in kg, without bucket and without QC, with counterweight (4400 kg), heavy lift on.

Load at m	aximum re	ach (sticknose/bucket pin)	Load	l over fro	nt		D Load	l over rea	r	I	C Loa	ıd over si	de		<u>_</u> Lo	ad point l	neight	
Long				3.0 m			4.5 m			6.0 m			7.5 m			÷	-	
Stick 2900 mm		Undercarriage configuration	ł	6	P	ł	P	P	ß	9	P	4	9	P	ł	P	P	m
2900 11111		Rear dozer up (std UC)							5700	4600	3850	*3150	3050	2550	*2800	*2800	2500	
	6.0 m	Rear dozer down (std UC) Dozer and stabilizer down (std UC)								*6350 *6350	4350 *6350		*3150 *3150	2900 *3150		*2800 *2800	*2800 *2800	7.54
		2 sets of stabilizers down (std UC)							*6350	*6350	*6350	*3150	*3150	*3150	*2800	*2800	*2800	
		Rear dozer up (std UC)				*7900	7050	5850	5550	4400	3700	3850	3000	2500	*2650	2550	2100	
	4.5 m	Rear dozer down (std UC)					*7900	6650		*6850	4200		*5700	2900		*2650	2400	8.23
	4.0 11	Dozer and stabilizer down (std UC)					*7900	*7900		*6850	6200		*5700	4300	*****	*2650	*2650	0.20
		2 sets of stabilizers down (std UC)				*7900 8200	*7900 6450	*7900 5250	*6850 5250	*6850 4150	*6850	*5700	*5700	5100 2400	*2650 *2600	*2650	*2650 1900	
		Rear dozer up (std UC) Rear dozer down (std UC)				8200	*10 050	5250 6050	5250	4150 *7350	3450 3950	3700	2900 *5850	2400	^2600	2300 *2600	2200	
	3.0 m	Dozer and stabilizer down (std UC)					*10 050	9350		*7350	5900		*5850	4200		*2600	*2600	8.59
		2 sets of stabilizers down (std UC)				*10 050	*10 050	*10 050	*7350	*7350	7150	*5850	*5850	5000	*2600	*2600	*2600	
		Rear dozer up (std UC)				7600	5850	4750	5000	3900	3200	3600	2800	2300	*2700	2200	1800	
	1.5 m	Rear dozer down (std UC)					*11 550	5500		*8050	3700		6050	2650		*2700	2100	8.67
	1.0 11	Dozer and stabilizer down (std UC)					*11 550	8700		*8050	5650		*6150	4050		*2700	*2700	0.07
		2 sets of stabilizers down (std UC)				*11 550	*11 550	10 850	*8050	*8050	6850	*6150	6150	4850	*2700	*2700	*2700	
		Rear dozer up (std UC) Rear dozer down (std UC)				7300	5550 *11 850	4450 5200	4800	3700 8500	3000 3500	3500	2700 5900	2200 2550	*2900	2250 *2900	1850 2150	
	0.0 m	Dozer and stabilizer down (std UC)					*11 850	8350		*8600	5450		*6500	3950		*2900	*2900	8.47
		2 sets of stabilizers down (std UC)				*11 850		10 450	*8600	8500	6600	*6500	6000	4750	*2900	*2900	*2900	
		Rear dozer up (std UC)	*9450	*9450	8150	7200	5450	4350	4700	3600	2900	3450	2650	2150	3200	2450	2000	
	-1.5 m	Rear dozer down (std UC)		*9450	*9450		*11 100	5150		*8200	3400		5850	2500		*3300	2350	7.98
	-1.5 m	Dozer and stabilizer down (std UC)		*9450	*9450		*11 100	8300		*8200	5350		*6100	3900		*3300	*3300	7.50
		2 sets of stabilizers down (std UC)	*9450	*9450	*9450	*11 100	*11 100	10 350	*8200	*8200	6550	*6100	6000	4700	*3300	*3300	*3300	
		Rear dozer up (std UC)				7250	5550	4400	4750	3650	2950							
	-3.0 m	Rear dozer down (std UC) Dozer and stabilizer down (std UC)					*9300 *9300	5200 8350		*6850 *6850	3450 5400							
		2 sets of stabilizers down (std UC)				*9300	*9300	*9300	*6850	*6850	5400 6550							

*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.

Lift Capacities – One-Piece Boom (5650 mm)

All values are in kg, without bucket and without QC, with counterweight (4400 kg), heavy lift on.

ad at maximu	um rea	ach (sticknose/bucket pin)	Loa Loa	d over fro	nt		Load	l over rea	r	(Loa	d over sid	le		Loa	ad point h	reight	
	>_			3.0 m			4.5 m			6.0 m			7.5 m			*	-	
_		Undercarriage configuration	4	P	CP	4	6	P	4	6	P	Ð	4	P	Ð	4	S	I
6	6.0 m	Rear dozer up (std UC) Rear dozer down (std UC) Dozer and stabilizer down (std UC) 2 sets of stabilizers down (std UC)							5550 *6800	4450 *6800 *6800 *6800	3750 4250 6200 *6800				*4050 *4050	3400 *4050 *4050 *4050	2900 3250 *4050 *4050	6
4	l.5 m	Rear dozer up (std UC) Rear dozer up (std UC) Dozer and stabilizer down (std UC) 2 sets of stabilizers down (std UC)				8500	6750 *9000 *9000 *9000	5600 6400 *9000 *9000	*7250	4300 *7250 *7250 *7250	3600 4100 6050 7250	3800	3000 6150 *6300 6300	2500 2850 4250 5050	*3800	2850 *3800 *3800 *3800	2400 2700 *3800 *3800	7
3	8.0 m	Rear dozer up (std UC) Rear dozer up (std UC) Dozer and stabilizer down (std UC) 2 sets of stabilizers down (std UC)				7900 *10 900	6150 *10 900 *10 900 *10 900	5050 5850 9000 *10 900	*8000	4050 *8000 *8000 *8000	3400 3900 5800 7000	3700	2900 6050 *6650 6200	2450 2800 4150 4950	3300	2550 *3750 *3750 *3750	2150 2450 3700 *3750	8
1	.5 m	Rear dozer up (std UC) Rear dozer down (std UC) Dozer and stabilizer down (std UC) 2 sets of stabilizers down (std UC)				7450 *12 050	5750 *12 050 *12 050 *12 050	4650 5400 8500 10 600	4950 *8600	3850 8550 *8600 8600	3200 3650 5600 6750	3600 *6850	2800 5950 6700 6100	2350 2700 4050 4850	3150 *3800	2450 *3800 *3800 *3800	2050 2350 3550 *3800	1
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)				7300	5600 *11 850 *11 850 *11 850 *11 850	4500 5250 8350 10 400	4800 *8700	3700 8400 *8700 8450	3050 3550 5450 6600	3550 *6700	2750 5900 6650 6000	2250 2600 4000 4750	3250 *4100	2550 *4100 *4100 *4100	2100 2400 3650 *4100	
-1	.5 m	Rear dozer up (std UC) Rear dozer down (std UC) Dozer and stabilizer down (std UC) 2 sets of stabilizers down (std UC)	*8450	*8450 *8450 *8450 *8450	*8450 *8450 *8450 *8450	7300	5600 *10 800 *10 800 *10 800	4500 5250 8350 10 400	4800 *8150	3700 *8150 *8150 *8150	3050 3500 5400 6550				3600 *4650	2800 *4650 *4650 *4650	2300 2650 4050 *4650	
-3	8.0 m	Rear dozer up (std UC) Rear dozer down (std UC) Dozer and stabilizer down (std UC) 2 sets of stabilizers down (std UC)	*10 900	*10 900 *10 900 *10 900 *10 900	8700 10 400 *10 900 *10 900	7400	5700 *8800 *8800 *8800	4600 5400 8500 *8800	4850 *6450	3800 *6450 *6450 *6450	3100 3600 5500 *6450				4400 *5200	3450 *5200 *5200 *5200	2850 3250 4950 *5200	1
				3.0 m	•	1	4.5 m			6.0 m	'	1	7.5 m		1	-50		
	Ì	Undercarriage configuration	R	9.0 m	F	R.		P	4		F	ß		æ	ß	- *		
6	6.0 m	Rear dozer up (std UC) Rear dozer down (std UC) Dozer and stabilizer down (std UC) 2 sets of stabilizers down (std UC)							5600 *6450	4500 *6450 *6450 *6450	3800 4300 6250 *6450	U	Ľ		*3350	2250 *3350 *3350 *3350 *3350	2750 3100 *3350 *3350	
		Rear dozer up (std UC)							5450	4350	3650	3800	3000	2500	*3250	2700	2250	\vdash

0.0 111	Dozer and stabilizer down (std UC)								*6450	6250					*3350	*3350	7.21
	2 sets of stabilizers down (std UC)							*6450	*6450	*6450				*3350	*3350	*3350	
	Rear dozer up (std UC)							5450	4350	3650	3800	3000	2500	*3250	2700	2250	
4.5 m	Rear dozer down (std UC)								*7000	4150		6200	2900		*3250	2600	7.93
4.5 11	Dozer and stabilizer down (std UC)								*7000	6100		*6200	4250		*3250	*3250	7.55
	2 sets of stabilizers down (std UC)							*7000	*7000	*7000	*6200	*6200	5050	*3250	*3250	*3250	
	Rear dozer up (std UC)				8000	6250	5150	5200	4100	3400	3700	2900	2450	3150	2450	2050	
3.0 m	Rear dozer down (std UC)					*10 500	5900		*7800	3900		6100	2800		*3250	2350	8.30
5.0 11	Dozer and stabilizer down (std UC)					*10 500	9100		*7800	5850		*6500	4150		*3250	*3250	0.30
	2 sets of stabilizers down (std UC)				*10 500	*10 500	*10 500	*7800	*7800	7000	*6500	6200	4950	*3250	*3250	*3250	
	Rear dozer up (std UC)				7500	5800	4700	4950	3850	3200	3600	2800	2350	3050	2350	1950	
1.5 m	Rear dozer down (std UC)					*11 850	5450		*8500	3700		5950	2650		*3400	2250	8.39
1.5 11	Dozer and stabilizer down (std UC)					*11 850	8550		*8500	5600		6700	4050		*3400	*3400	0.55
	2 sets of stabilizers down (std UC)				*11 850	*11 850	10 650	*8500	*8500	6750	*6750	6100	4850	*3400	*3400	*3400	
	Rear dozer up (std UC)				7300	5600	4500	4800	3700	3050	3500	2700	2250	3100	2400	2000	
0.0 m	Rear dozer down (std UC)					*11 950	5250		8350	3550		5850	2600		*3700	2300	8.18
0.0 111	Dozer and stabilizer down (std UC)					*11 950	8350		*8700	5450		6600	3950		*3700	3500	0.10
	2 sets of stabilizers down (std UC)				*11 950	*11 950	10 400	*8700	8450	6600	*6750	6000	4750	*3700	*3700	*3700	
	Rear dozer up (std UC)	*9750	*9750	8400	7250	5550	4500	4750	3650	3000	3500	2700	2250	3400	2650	2200	
-1.5 m	Rear dozer down (std UC)		*9750	*9750		*11 100	5250		*8300	3500		5850	2600		*4300	2500	7.67
-1.5 III	Dozer and stabilizer down (std UC)		*9750	*9750		*11 100	8300		*8300	5350		*6150	3950		*4300	3850	7.07
	2 sets of stabilizers down (std UC)	*9750	*9750	*9750	*11 100	*11 100	10 350	*8300	*8300	6550	*6150	5950	4750	*4300	*4300	*4300	
	Rear dozer up (std UC)	*12 050	11 200	8550	7350	5650	4550	4800	3700	3050				4100	3200	2650	
-3.0 m	Rear dozer down (std UC)		*12 050	10 250		*9300	5300		*6900	3550					*5450	3050	6.78
-5.0 111	Dozer and stabilizer down (std UC)		*12 050	*12 050		*9300	8400		*6900	5450					*5450	4600	0.70
	2 sets of stabilizers down (std UC)	*12 050	*12 050	*12 050	*9300	*9300	*9300	*6900	*6900	6600				*5450	*5450	*5450	

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

Lift Capacities – One-Piece Boom (5650 mm)

All values are in kg, without bucket and without QC, with counterweight (4400 kg), heavy lift on.

Load at m	aximum re	ach (sticknose/bucket pin)	Load	d over fro	nt		D Load	l over rea	r	I	Loa	d over si	de			ad point h	eight	
Long				3.0 m			4.5 m			6.0 m			7.5 m			÷		
Stick 2900 mm		Undercarriage configuration	ł	6	P	A	6	P	ŀ	P	P	8	9	P	ł	P	P	m
2,000 mm	6.0 m	Rear dozer up (std UC) Rear dozer down (std UC) Dozer and stabilizer down (std UC) 2 sets of stabilizers down (std UC)										*3850 *3850	3050 *3850 *3850 *3850	2550 2950 *3850 *3850	*2800 *2800	*2800 *2800 *2800 *2800	2450 *2800 *2800 *2800	7.66
	4.5 m	Rear dozer up (std UC) Rear dozer down (std UC) Dozer and stabilizer down (std UC) 2 sets of stabilizers down (std UC)							5500 *6600	4350 *6600 *6600 *6600	3700 4150 6150 *6600	3800	3000 *5900 *5900 *5900	2550 2900 4250 5100	*2700 *2700	2500 *2700 *2700 *2700	2050 2400 *2700 *2700	8.34
	3.0 m	Rear dozer up (std UC) Rear dozer down (std UC) Dozer and stabilizer down (std UC) 2 sets of stabilizers down (std UC)				8100	6350 *9900 *9900 *9900	5200 6000 9200 *9900	5200 *7500	4100 *7500 *7500 *7500	3450 3900 5850 7050	3700	2900 6100 *6250 6200	2450 2800 4150 4950	*2700	2250 *2700 *2700 *2700	1850 2150 *2700 *2700	8.69
	1.5 m	Rear dozer up (std UC) Rear dozer down (std UC) Dozer and stabilizer down (std UC) 2 sets of stabilizers down (std UC)				7550	5800 *11 500 *11 500 *11 500	4700 5500 8600 10 700	4950 *8250	3850 *8250 *8250 *8250	3200 3700 5600 6750	3550	2800 5950 *6600 6050	2300 2650 4000 4800	*2800	2150 *2800 *2800 *2800	1800 2100 *2800 *2800	8.77
	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)				7250	5550 *11 950 *11 950	4450 5200 8300 10 350	4750 *8650	3700 8350 *8650 8400	3000 3500 5400 6550	3450 *6750	2700 5800 6600 5950	2200 2550 3900 4700	2850	2200 *3050 *3050 *3050	1800 2100 *3050 *3050	8.58
	-1.5 m	Rear dozer up (std UC) Rear dozer down (std UC) Dozer and stabilizer down (std UC) 2 sets of stabilizers down (std UC)	*9250 *9250	*9250 *9250 *9250 *9250	8200 *9250 *9250 *9250	7200 *11 400	5450 *11 400 *11 400 *11 400	4400 5150 8250 10 300	4700 *8400	3600 8250 *8400 8300	2950 3450 5300 6450	3450 *6400	2650 5800 *6400 5900	2200 2500 3900 4650	3100 *3500	2400 *3500 *3500 *3500	1950 2300 *3500 *3500	8.10
	-3.0 m	Rear dozer up (std UC) Rear dozer down (std UC) Dozer and stabilizer down (std UC) 2 sets of stabilizers down (std UC)	*13 350	10 950 *13 350 *13 350	8400 10 050 *13 350 *13 350	7250	5550 *9900 *9900 *9900	4450 5200 8300 *9900	4700 *7350	3650 *7350 *7350 *7350	2950 3450 5350 6500				3650 *4400	2850 *4400 *4400 *4400	2350 2700 4100 *4400	7.26
	-4.5 m	Rear dozer up (std UC) Rear dozer down (std UC) Dozer and stabilizer down (std UC) 2 sets of stabilizers down (std UC)				*7000 *7000	5750 *7000 *7000 *7000	4650 5400 *7000 *7000										

*Limited by hydraulic rather than tipping load.

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

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 EU Stage IIIA 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 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 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 HEES™

biodegradable hydraulic oil

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

SmartBoom[™]

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 with three selectable modes 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 - mechanical suspension - 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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