M318D

Wheel Excavator





Engine	
Engine Model	Cat® C6.6 with
	ACERT™ Technology
Net power (ISO 9249) at 1,800 rpm	124 kW (169 hp)
Weights	
Operating Weight	18 200 to 20 100 kg

•		
Bucket Capacities	0.38 to 1.26 m ³	
Working Ranges		
Maximum Reach at Ground Level	9600 mm	
Maximum Digging Depth	6360 mm	
Drive		
Maximum Travel Speed	37 km/h	

Bucket Specifications

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 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 EU Stage IIIA engine emission regulations. The Cat C6.6 engine in the M318D delivers a maximum gross power of 130 kW at a rated speed of 1,800 rpm. This is 9% more horsepower as compared to the 3056E in the M318C.

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. SmartBoomTM 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 M318D 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 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 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.



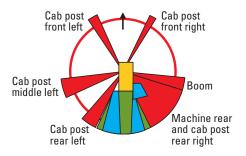








Field of Vision



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.

Increased Travel Speed

The maximum travel speed for the M318D has been increased from 34 to 37 km/h, reducing travel time between sites and increasing productivity.

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 four 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

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

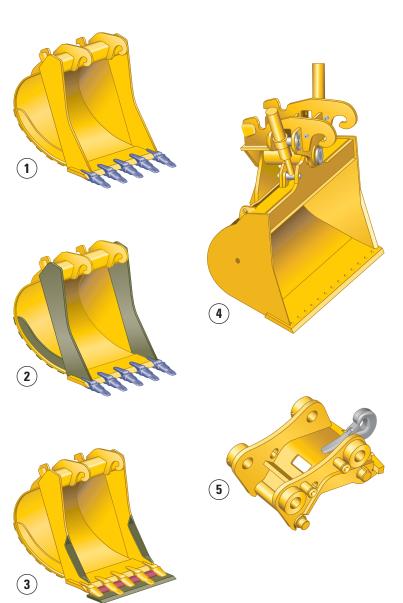
- Short stick (2200 mm) for maximum breakout force and lifting capability.
- Medium stick (2500 mm) for greater crowd force and lift capacity.
- Long stick (2800 mm) for greater depth and reach requirements.
- Industrial stick (3300 mm) for use with free-swinging grapples in material handling and industrial applications.





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 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·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 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 TM Technology
Ratings	1,800 rpm
Gross Power	130 kW (177 hp)
Net Power	
ISO 9249	124 kW (169 hp)
80/1269/EEC	124 kW (169 hp)
Bore	105 mm
Stroke	127 mm
Displacement	6.6 L
Cylinders	6
Maximum Torque at 1,400 rpm	805 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	170 L
System	255 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	310 bar
Maximum Flow	
Implement/Travel Circuit	290 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	17 850 kg
Rear Dozer, Front Outriggers	18 900 kg
Front and Rear Outriggers	19 100 kg
One-Piece Boom*	
Rear Dozer Only	17 350 kg
Rear Dozer, Front Outriggers	18 350 kg
Front and Rear Outriggers	18 550 kg
Sticks	
Short (2200 mm)	550 kg
Medium (2500 mm)	580 kg
Long (2800 mm)	600 kg
Industrial (3300 mm)	520 kg
Dozer Blade	740 kg
Outriggers	1030 kg
Counterweight	4000 kg

 Machine weight with medium stick, 4000 kg counterweight, with operator and full fuel tank, without work tool.
 Weight varies depending on configuration.

Transmission	
Forward/Reverse	
1st Gear	8 km/h
2nd Gear	37 km/h
Creeper Speed	
1st Gear	3 km/h
2nd Gear	13 km/h
Drawbar Pull	99 kN
Maximum Gradeability	60%

Swing Mechanism	
Swing Speed	10.5 rpm
Swing Torque	48 kN·m

Tires

Standard

• 10.00-20 (dual pneumatic)

Optional

- 11.00-20 (dual pneumatic)
- 18 R 19.5 XF (single pneumatic)
- 10.00-20 (dual solid rubber)

Undercarriage	
Ground Clearance	370 mm
Maximum Steering Angle	35°
Oscillation Axle Angle	± 9°
Minimum Turning Radius	
Standard Axle	
Outside of Tire	6400 mm
End of VA Boom	7000 mm
End of One-Piece Boom	8300 mm
Wide Axle	
Outside of Tire	6500 mm
End of VA Boom	7100 mm
End of One-Piece Boom	8500 mm

Service Refill Capacities					
Fuel Tank	385 L				
Cooling	36 L				
Engine Crankcase	15 L				
Rear Axle Housing (differential)	14 L				
Front Steering Axle (differential)	10.5 L				
Final Drive	2.5 L				
Powershift Transmission	2.5 L				

Sound Levels

Exterior Sound

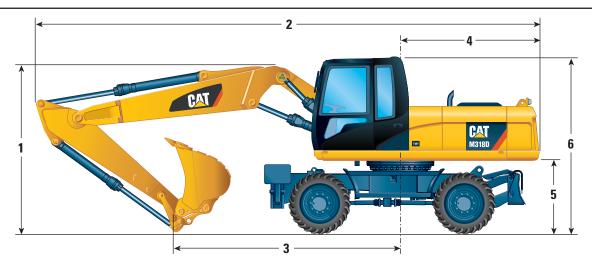
• The labeled spectator sound power level measured according to the test procedures and conditions specified in 2000/14/EC is 103 dB(A).

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.

Dimensions

All dimensions are approximate.



		VA Boom				One-Piece Boom			
Stick Length	mm	2200	2500	2800	*3300	2200	2500	2800	*3300
1 Shipping Height	mm	3170	3170	3300	3330	3190	3210	3330	3290
2 Shipping Length	mm	8870	8550	8820	8850	8870	8960	8950	9000
3 Support Point	mm	3920	3650	3510	3270	3810	3490	3310	3080
4 Tail Swing Radius	mm	2565				2565			
5 Counterweight Clearance	mm		1275			1275			
6 Cab Height	mm		3170				31	70	
With 1200 mm Fixed Cab Riser	mm	4370					43	70	
Overall Machine Width	mm	2550					25	550	
Wide Gauge Axle	mm		27	50			27	'50	

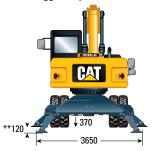
^{*} Industrial stick



Undercarriage with dozer only



** Maximum tire clearance with outrigger fully down



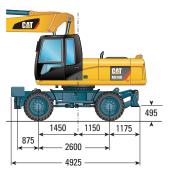
Undercarriage with 2 sets of outriggers



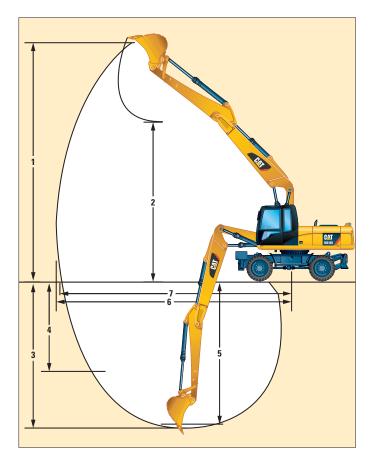
Roading position with 2400 mm stick

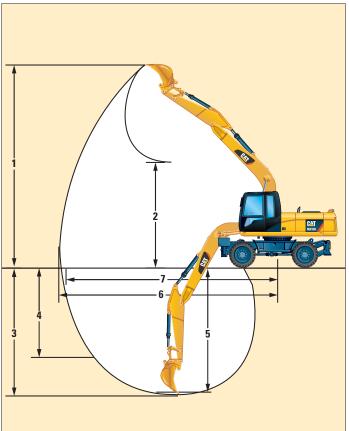


Undercarriage with 1 set of outriggers and dozer



Working Ranges





		VA Boom				One-Piece Boom			
Stick Length	mm	2200	2500	2800	*3300	2200	2500	2800	*3300
1 Digging Height	mm	9710	10 000	10 210	8620	8760	9010	9170	7560
2 Dump Height	mm	6700	6970	7190	3550	5900	6110	6270	3140
3 Digging Depth	mm	5750	6060	6360	5320	5700	6000	6300	5250
4 Vertical Wall Digging Depth	mm	3220	3680	3960	_	2880	3340	3620	_
5 Depth 2.5 m Straight Clean-Up	mm	5538	5865	6179	_	5488	5805	6119	_
6 Reach	mm	9160	9470	9760	8490	9180	9490	9770	8470
7 Reach at Ground Level	mm	8970	9300	9590	8290	9000	9320	9600	8270
Bucket Forces (ISO 6015)	kN	126	126	126	-	126	126	126	_
Stick Forces (ISO 6015)	kN	102	91	85	_	102	91	85	-

 $[\]ensuremath{^{*}}$ Industrial stick has no bucket linkage. All dimensions refer to sticknose.

Values 1-7 are calculated with bucket and quick coupler with a tip radius of 1599 mm.

Breakout force values are calculated with heavy lift on (no quick coupler) and a tip radius of 1405 mm.

Bucket Specifications

Contact your Cat dealer for special bucket requirements.

Pin-On Buckets								Vari	able	Adju 5260	ıstab mm	le B	oom								One	-Pie	ce B	oom				
Stick Length						2200	mm			2500	mm			2800) mm			2200	mm			2500	mm			2800) mm	
	a Width	by Weight*	چ (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	l set of stabilizer lowered	Fully stabilized
	600	478	0.38	3			,				,								,_				, i				, —	
	750	507	0.52	3																								
	900	568	0.65	4																								
	1000	602	0.75	4																								
Excavation	1100	634	0.84	4																								
	1200	678	0.94	5																								
	1300	710	1.03	5																								
	1400	744	1.13	5																								
Futuama Fugavation	1200	712	0.94	5																								
Extreme Excavation	1300	745	1.03	5																								
	600	514	0.41	3																								
	750	544	0.56	3																								
	800	582	0.61	4																								
	900	611	0.70	4																								
Excavation (leveling)	1000	651	0.82	4																								
	1100	687	0.92	4																								
	1200	740	1.04	5																								
	1300	777	1.14	5																								
	1400	813	1.26	5																								
Extreme Excavation (leveling)	1200	772	1.04	5																								
(1046IIII9)	1300	809	1.14	5																								
Ditch Cleaning	1800	630	0.90																									
	2000 1800	685 875	1.00 0.75																									
Tiltable Ditch Cleaning	2000	912	0.75																									
*Bucket weight includes Gr						Max	kimum	mate	erial			Max	kimum	n mate	erial			Max	imum	n mate	erial			Not	recor	nmen	ided	

density 1800 kg/m³

density 1500 kg/m³

density 1200 kg/m³

Bucket Specifications

Contact your Cat dealer for special bucket requirements.

CW Quick Coupler Buck	ets							Vari		Adju 5260		le Bo	oom								One	-Pied 5350		oom				
Stick Length						2200	mm			2500	mm			2800	mm			2200	mm			2500	mm			2800	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	m³		Ŗ.	Õ	1 s	교	Fre	O	1 s	교	Fr	Õ	1.8	교	Fre	Do	_ S	교	Fre	Õ	_ S	교	Fr	õ	-8	교
	600	465	0.38	3																								
	750	501	0.52	3																								
	900	530	0.65	4																								
Excavation	1000	564	0.75	4																								
	1100	596	0.84	4																								
	1200	640	0.94	5																								
	1300	671	1.03	5																								
	1400	703	1.13	5																								
Extreme Excavation	1200	674	0.94	5																								
	1300	707	1.03	5																								
	600	498	0.41	3																								
	750	547	0.56	3																								
	800 900	526 575	0.61	4																								
Excavation (leveling)	1000	614	0.70	4																								
Excavation (leveling)	1100	651	0.92	4																								
	1200	704	1.04	5																								
	1300	741	1.14	5																								
	1400	777	1.26	5																								
	600	523	0.41	3																								
	800	555	0.61	4																								
Extreme Excavation	1000	644	0.82	4																								
(leveling)	1200	736	1.04	5																								
	1300	773	1.26	5																								
D: 1 01	1800	592	0.90																									
Ditch Cleaning	2000	645	1.00																									
Tiltoble Dital: Classic	1800	835	0.75																									
Tiltable Ditch Cleaning	2000	875	0.84																									

density 1500 kg/m³ density 1200 kg/m³ density 1800 kg/m³

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.

						Var	iable		ustab) mm	le B	oom								One	e-Pie 5350	ce B) mm					
					zer ered		0	f stal	ets bilize ered	rs	ıs	nd sta	zer abiliz ered	er		Do	zer ered		0	f stal	ets bilize ered		а	nd st	zer abili ered	
Without Quick Coupler	Stic	k Length (mm)	2200	2500	2800	3300	2200	2500	2800	3300	2200	2500	2800	3300	2200	2500	2800	3300	2200	2500	2800	3300	2200	2500	2800	3300
Hammers		20C S, H130 S				-																-				
Trainino To	MP15	CC, CR																								t
	MP15	PP, PS																								٢
Multiprocessors	MP15	S																								r
a.aprococo.c	MP20	CC, CR																								٢
	MP20	PP, PS, S													\vdash											t
	S320B	11,10,0													\vdash											+
Hydraulic Shears	S320B*																									t
(* boom mounted)	S325B*														\vdash											H
		D																								
Multi-Grapples	G315B	R																								H
ινιαια-σι αμμισδ	G320B	D, R																								+
	P315	וו, וו			\vdash	\vdash																				\vdash
Crushers	P315	+																								╄
Compostor		+																								\vdash
Compactor	CVP75	400																								
	00111=0	400																				-	-			╄
	GSH15B	500																					_		-	L
	5 tines	600																					_			1
		800																					_			1
		400																								
	GSH15B	500																								
Orange Peel Grapples	4 tines	600																								
Orallye reel drapples		800																								Г
	COLICOR	600																								
	GSH20B	800																								Г
	5 tines	1000																								Т
	0011000	600																								Т
	GSH20B	800																								T
	4 tines	1000																								Т
	P215																									Г
Pulverizers	P225																									٢
With Quick Coupler (CW-																										
Hammers		20C S, H130 S																								Т
TIUTITIO S	MP15																									H
	MP15	PP, PS	_	\vdash	\vdash	\vdash																				╀
Multiproposass			-	\vdash					\vdash													\vdash				\vdash
Multiprocessors	MP15	S	_	-	-	-				\vdash								_								4
	MP20	CC, CR					\vdash				<u> </u>				<u> </u>							\vdash			\vdash	+
	MP20	PP, PS, S	_	_	<u> </u>	<u> </u>																-				+
Hydraulic Shear	S320														_											L
	G315B	D		_	_	_																				4
Multi-Grapples	G315B	R																								4
	G320B	D, R																								\perp
Compactor	CVP75																									
Crushers	P315																									
	P325																									
Duharinara	P215																									
Pulverizers	P225																									Ι
							orking e fror										Ma	ximu	ım m	ateri	al de	nsity	3000 1800	kg/r	n³	

Lift Capacities – Variable Adjustable Boom (5260 mm)

Rear dozer up Rear dozer down

Rear dozer up

Rear dozer down

0.0 m

-1.5 m

Dozer and stabilizer down 2 sets of stabilizers down

Wide axle rear dozer up

Rear dozer down Dozer and stabilizer down

2 sets of stabilizers down

Wide axle rear dozer up

Dozer and stabilizer down 2 sets of stabilizers down

Wide axle rear dozer up

All values are in kg, without bucket and without QC, with counterweight (4000 kg), heavy lift on.

*10 300

*10 300

8500

*10 300 *10 300

*10 300

Load at maximum reach (sticknose/bucket pin) Load over rear Load over front ^{>>}⊤ Load point height Load over side Short 3.0 m 4.5 m 6.0 m 7.5 m Stick 4 m Undercarriage configuration 2200 mm 5050 *4350 Rear dozer up *6700 5800 5050 3600 3150 3300 2900 Rear dozer down Dozer and stabilizer down *6700 *5750 3600 *4350 6.0 m *4350 *4350 6.25 *6700 *6700 *5750 5300 2 sets of stabilizers down Wide axle rear dozer up *6700 5800 *6700 *6700 *5750 *5750 *5750 *4350 *4350 *4350 *7650 4950 3500 3050 3500 3800 2650 *4150 Rear dozer up *7650 Rear dozer down 5500 *6350 2650 Dozer and stabilizer down 2 sets of stabilizers down *7650 *7650 *7650 *7650 5200 6050 3950 *4150 *6350 *4150 7.07 4.5 m *7650 *6350 *4150 *4150 *6350 Wide axle rear dozer up 5550 5250 3500 3350 2650 2550 4800 3400 Rear dozer up Rear dozer down 7400 5050 4350 3350 2900 2350 2050 3350 5000 *4200 Dozer and stabilizer down 3.0 m *9100 7800 *6900 *4200 3550 7.50 *9100 5100 *9100 4800 5850 3200 2 sets of stabilizers down *9100 *6900 *6900 *4200 *4200 Wide axle rear dozer up 3350 2350 2250 6950 4000 3300 2000 3250 Rear dozer up 4700 3150 2700 2250 1950 2300 3500 Rear dozer down 10 150 4650 7150 3150 5000 *4500 2250 3400 3950 Dozer and stabilizer down 7350 4800 *4500 1.5 m 7.59 2 sets of stabilizers down °10 150 *7400 5650 *5600 4050 *4500 *4500 *10 150 8750 *7400 5250 Wide axle rear dozer up 4700 4400 3150 3000 2200 2250 2150

6750

°10 150

6750

*9200

6850

6950

8350 10 300

*10 300 7850 4500

10 150

10 150

4500

4450

*9200

*9200

*9200 4500

4600

*7200

*7200

*7200

4600

3800

4450

7150

4250

3800

4450 7100

8500 4200

3900

4550

*7200

4300

Medium Stick 2500 mm

>> →			3.0 m			4.5 m			6.0 m			7.5 m				=	
	Undercarriage configuration	4	7	æ	4	7		4	P			7		4	P		m
6.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				*6250 *6250	5850 *6250 *6250 *6250 5900	5100 5850 *6250 *6250 5600	5100 *5550	3650 *5550 *5550 *5550 3650	3200 3650 5350 *5550 3500				*3300	3050 *3300 *3300 *3300 3050	2650 3050 *3300 *3300 2900	6.63
4.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				*7250 *7250	5600 *7250 *7250 *7250 5600	4850 5550 *7250 *7250 5300	*6150	3550 *6150 *6150 *6150 3550	3100 3550 5250 6050 3400				*3150 *3150	2450 *3150 *3150 *3150 2500	2150 2500 *3150 *3150 2350	7.41
3.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				7500 *8800	5150 *8800 *8800 *8800 5150	4450 5100 7900 *8800 4900	4800 *6750	3350 *6750 *6750 *6750 3400	2950 3350 5050 5850 3200	3400 *5300	2350 5100 5250 *5300 2400	2050 2350 3600 4150 2250	3200 *3200	2200 *3200 *3200 *3200 2200	1900 2200 *3200 *3200 2100	7.82
1.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				7000 *10 000	4750 *10 000 *10 000 *10 000 4750	4050 4700 7400 8800 4500	4600 *7300	3200 7150 7250 *7300 3200	2750 3150 4850 5650 3050	3350 *5850	2300 5050 5150 5250 2300	2000 2300 3500 4050 2200	3050 *3350	2100 *3350 *3350 *3350 2100	1800 2100 3250 *3350 2000	7.91
0.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				6800 *10 250	4500 *10 250 *10 250 *10 250 *500	3850 4500 7150 8550 4250	*7450	3050 7000 7100 7250 3050	2600 3050 4700 5500 2900	3250 *5700	2250 4950 5050 5200 2250	1900 2250 3450 4000 2150	3150 *3750	2150 *3750 *3750 *3750 2150	1850 2150 3300 *3750 2050	7.70
-1.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up	*9500 *9500	8400 *9500 *9500 *9500 8450	6900 8300 *9500 *9500 7800	6700 *9500	4450 *9500 *9500 *9500 4450	3800 4450 7100 8450 4200	*7000	3000 6950 *7000 *7000 3000	2550 3000 4650 5450 2850				3450 *4400	2400 *4400 *4400 *4400 2400	2050 2400 3650 4250 2250	7.16
-3.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				6800 *7700	4550 *7700 *7700 *7700 4550	3850 4500 7200 *7700 4300	4500 *5350	3050 *5350 *5350 *5350 3050	2650 3050 4700 *5350 2900				4300 *4900	2950 *4900 *4900 *4900 2950	2550 2950 4500 *4900 2800	6.21

3050

3000

*6800

*6800

*6800 3000 2600 3050

4700

2900

2600

3000 4650

5450

3350

*5050

3750

*5550

4750

*5000

2300

*5050

*5050

2300

2550

*5550

*5550

*5550

2550

3250

*5000

*5000

*5000

2000 2300

3500 7.38

2200

2200

2550 3950

4600 2450

2800

3250

*5000 5.80

*5000

3100

6.81

4450

*7450

4450

*6800

^{*}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 (5260 mm)

All values are in kg, without bucket and without QC, with counterweight (4000 kg), heavy lift on.

Load at	maximum re	each (sticknose/bucket pin)	Loa	d over fro	nt		Load	l over rea	r	(Loa	d over si	de		≫ _T Lo	ad point h	eight	
Long	→			3.0 m			4.5 m			6.0 m			7.5 m				=	
Stick 2800 mm		Undercarriage configuration		P	GP	4	M		4	P)	GP	P.	P		6	P	GP	m
2000 11111	6.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up							5200 *5200	3700 *5200 *5200 *5200 3700	3250 3700 *5200 *5200 3550				*2900 *2900	2800 *2900 *2900 *2900 2850	2450 2800 *2900 *2900 2700	6.98
	4.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				*6650 *6650	5700 *6650 *6650 *6650 5700	4950 5650 *6650 *6650 5400	5050 *5900	3600 *5900 *5900 *5900 3600	3150 3600 5300 *5900 3450	3500 *3950	2450 *3950 *3950 *3950 2450	2150 2450 3700 *3950 2350	*2800 *2800	2350 *2800 *2800 *2800 2350	2050 2350 *2800 *2800 2250	7.72
	3.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				7600 *8450	5250 *8450 *8450 *8450 5250	4500 5200 8000 *8450 4950	4850 *6550	3400 *6550 *6550 *6550 3400	2950 3400 5100 5900 3250	3450 *5550	2400 5150 5250 5400 2400	2100 2400 3600 4200 2300	*2800 *2800	2100 *2800 *2800 *2800 2100	1800 2100 *2800 *2800 2000	8.10
	1.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				7100 *9800	4800 *9800 *9800 *9800 4800	4100 4750 7500 8850 4550	4650 *7200	3200 *7200 *7200 *7200 3200	2750 3200 4900 5700 3050	3350 *5800	2300 5050 5150 5250 2300	2000 2300 3500 4050 2200	2900 *2950	2000 *2950 *2950 *2950 2000	1750 2000 *2950 *2950 1900	8.19
	0.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				6800 *10 250	4550 *10 250 *10 250 *10 250 4550	3850 4500 7200 8550 4300	4500 *7450	3050 7000 7100 7250 3050	2600 3050 4700 5500 2900	3250 *5800	2250 4950 5100 5200 2250	1950 2250 3450 4000 2150	3000 *3250	2050 *3250 *3250 *3250 2050	1750 2050 3150 *3250 1950	7.99
	-1.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up	*9050 *9050	8350 *9050 *9050 *9050 8350	6800 8200 *9050 *9050 7700	6700 *9700	4450 *9700 *9700 *9700 4450	3750 4400 7100 8450 4200	*7150	3000 6950 7050 *7150 3000	2550 3000 4650 5450 2850				3250 *3800	2250 *3800 *3800 *3800 2250	1900 2250 3450 *3800 2150	7.48
	-3.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up	*11 150 *11 150	8500 *11 150 *11 150 *11 150 8550	6950 8400 *11 150 *11 150 7900	6750 *8200	4500 *8200 *8200 *8200 4500	3800 4450 7150 *8200 4250	*5850	3000 *5850 *5850 *5850 3050	2600 3000 4700 5500 2900				3950 *4850	2700 *4850 *4850 *4850 2700	2300 2700 4150 *4850 2550	6.58

Industrial Stick 3300 mm

			3.0 m			4.5 m			6.0 m			7.5 m			-52	=	
	Undercarriage configuration		- F	ŒP			₽		- γη	GP		- Pη	GP		- -		m
6.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up							*4950 *4950	4050 *4950 *4950 *4950 4050	3600 4000 *4950 *4950 3850				*3150 *3150	2900 *3150 *3150 *3150 2950	2600 2900 *3150 *3150 2800	7.31
4.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				*5900 *5900	*5900 *5900 *5900 *5900 *5900	5300 *5900 *5900 *5900 5800	5400 *5800	3950 *5800 *5800 *5800 3950	3500 3900 5650 *5800 3750	3850 *4500	2800 *4500 *4500 *4500 2800	2450 2800 4000 *4500 2700	*3100 *3100	2500 *3100 *3100 *3100 2500	2200 2500 *3100 *3100 2400	8.02
3.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				8000 *8150	5650 *8150 *8150 *8150 5700	4950 5650 *8150 *8150 5400	5200 *6550	3750 *6550 *6550 *6550 3750	3300 3750 5450 6250 3600	3750 *5650	2700 5450 5550 *5650 2700	2400 2700 3900 4500 2600	3150 *3200	2250 *3200 *3200 *3200 2250	2000 2250 *3200 *3200 2200	8.40
1.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				7550 *9800	5200 *9800 *9800 *9800 5250	4500 5200 7950 9300 4950	4950 *7300	3550 *7300 *7300 *7300 3550	3100 3550 5200 6000 3400	3650 *6000	2600 5350 5450 5550 2600	2300 2600 3800 4350 2500	3050 *3400	2200 *3400 *3400 *3400 2200	1900 2200 3200 *3400 2100	8.48
0.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up	*7000 *7000	*7000 *7000 *7000 *7000 *7000	*7000 *7000 *7000 *7000 *7000	7200 *10 600	4900 *10 600 *10 600 *10 600 4950	4200 4900 7600 8950 4650	4800 *7750	3350 7350 7450 7600 3400	2950 3350 5050 5850 3200	3550 *6150	2500 5250 5350 5450 2500	2200 2500 3700 4250 2400	3100 *3800	2200 *3800 *3800 *3800 2200	1950 2200 3250 3750 2100	8.29
−1.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up	*9800 *9800	8750 *9800 *9800 *9800 8750	7200 8600 *9800 *9800 8100	7050 *10 400	4800 *10 400 *10 400 *10 400 4800	4100 4750 7450 8800 4550	4700 *7650	3300 7250 7350 7500 3300	2850 3250 4950 5750 3150	3500 *5850	2450 5200 5300 5400 2450	2150 2450 3650 4200 2350	3350 *4500	2350 *4500 *4500 *4500 2350	2050 2350 3500 4000 2250	7.79
−3.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up	*12 950 *12 950	8850 *12 950 *12 950 *12 950 *8850	7250 8700 *12 950 *12 950 8200	7050 *9200	4800 *9200 *9200 *9200 4800	4100 4750 7450 8800 4550	4700 *6800	3250 *6800 *6800 *6800 3250	2850 3250 4900 5700 3100				3900 *5450	2750 *5450 *5450 *5450 2750	2400 2750 4100 4700 2600	6.93

^{*}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 (5350 mm)

Wide axle rear dozer up

Rear dozer down Dozer and stabilizer down

2 sets of stabilizers down

Wide axle rear dozer up

Dozer and stabilizer down 2 sets of stabilizers down

Wide axle rear dozer up

Rear dozer up

Rear dozer down

All values are in kg, without bucket and without QC, with counterweight (4000 kg), heavy lift on.

*10 150

°10 150

°10 050

8550

*10 150 *10 150

*10 150

8700

10 050

10 050

8700

Load at maximum reach (sticknose/bucket pin) Load over rear Load over front ^{>>}⊤ Load point height Load over side Short 3.0 m 4.5 m 6.0 m 7.5 m Stick 7 m Undercarriage configuration 2200 mm *4450 Rear dozer up 5000 3600 3150 3300 2900 Rear dozer down Dozer and stabilizer down 3600 *4450 3300 *4450 6.0 m *4450 6.29 *5850 5250 2 sets of stabilizers down *5850 *5850 *5850 *4450 *4450 *4450 Wide axle rear dozer up 3300 *7450 5450 *7450 4750 5450 4950 3050 3500 3750 2650 *4350 Rear dozer up Rear dozer down *6250 2650 Dozer and stabilizer down 2 sets of stabilizers down 5150 5950 3950 *4350 *7450 *7450 *6250 *4350 4.5 m 7.10 *7450 *7450 *6250 *4350 *6250 *4350 Wide axle rear dozer up 5450 5200 3500 3350 2650 2550 4750 Rear dozer up Rear dozer down 7300 3400 2050 3350 5050 4350 3350 2900 2350 2350 2050 3350 5000 2350 3550 Dozer and stabilizer down 3.0 m *9050 7700 *6850 *4700 *4500 3550 7.52 *9050 5050 *9050 4800 5800 3200 *4700 2350 4100 2250 *4500 2350 2 sets of stabilizers down *9050 *6850 *6850 *4700 *4500 Wide axle rear dozer up 3350 2250 6900 3300 2300 3250 Rear dozer up 4700 4000 3150 2750 2000 2250 1950 Rear dozer down 10 200 4650 3150 2300 *4850 2250 3400 3950 Dozer and stabilizer down 7300 4800 3500 *4850 7.62 2 sets of stabilizers down £10 200 8650 *7400 7300 3150 5600 *5900 4050 *4850 *4850 *10 200 5200 Wide axle rear dozer up 4700 4450 3000 2200 2250 2150 Rear dozer up Rear dozer down 4450 2650 3050 3350 2000 2300 6750 4500 3850 3050 2300 6900 5000 10 300 4500 Dozer and stabilizer down 2 sets of stabilizers down 7050 7200 0.0 m 10 300 7150 4700 5150 3500 7.40

10 300

6750

*9500

6850

7000

8400 10 150

*10 150 7900

7150

8550

10 050

10 050

8050

10 300

4550

4500

*9500

*9500

*9500 4500

4600

*7700

*7700

*7700

4300

3850

4500 7100

8450 4250

3900

4550

7200

4350

*7550

4400

*7050

3050

3000

6900

7000

*7050 3050

2900

2600

3050 4650

5450

*5500

3700

*5800

4700

*5550

2300

2550

5650

5750

*5800

2550

3250

*5550

*5550

3250

2200

2200

2550 3900

4550 2450

2800

3250

4950 5.83

*5550 3100 6.84

Medium Stick 2500 mm

\>			3.0 m			4.5 m			6.0 m			7.5 m				=	
	Undercarriage configuration	4	7	GP	4	4	₽	4	P	Œ	4	P	ŒP	4	P	GP	m
6.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up							*5550	3650 *5550 *5550 *5550 3650	3200 3650 5300 *5550 3500				*3450 *3450	3000 *3450 *3450 *3450 3050	2650 3000 *3450 *3450 2900	6.66
4.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up							4950 *6000	3550 *6000 *6000 *6000 3550	3100 3550 5200 *6000 3400				*3350 *3350	2500 *3350 *3350 *3350 2500	2150 2500 *3350 *3350 2400	7.43
3.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				7400 *8700	5100 *8700 *8700 *8700 5100	4400 5100 7800 *8700 4850	4800 *6650	3350 *6650 *6650 *6650 3350	2950 3350 5000 5800 3200	3400 *5500	2400 5050 5200 5300 2400	2100 2400 3550 4100 2300	3150 *3450	2200 *3450 *3450 *3450 2200	1950 2200 3350 *3450 2150	7.84
1.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				7000 *10 000	4750 *10 000 *10 000 *10 000 4750	4050 4700 7350 8700 4500	*7300	3200 7100 7200 *7300 3200	2750 3200 4800 5600 3050	3300 *5850	2300 4950 5100 5200 2300	2000 2300 3500 4050 2200	3050 *3650	2100 *3650 *3650 *3650 2100	1850 2150 3200 *3650 2050	7.93
0.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				6750 *10 350	4550	3850 4500 7150 8500 4300	*7550	3050 6950 7050 7200 3050	2650 3050 4700 5450 2900	3250 *5850	2250 4900 5050 5150 2250	1950 2250 3400 3950 2150	3150 *4100	2150 *4100 *4100 *4100 2150	1850 2150 3300 3800 2050	7.72
−1.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up	*9400 *9400	8450 *9400 *9400 *9400 8500	6950 8350 *9400 *9400 7850	6700 *9750	4500 *9750 *9750 *9750 4500	3800 4450 7100 8450 4250	*7200	3000 6850 7000 7150 3000	2600 3000 4650 5400 2850				3450 *5000	2400 *5000 *5000 *5000 2400	2050 2400 3600 4200 2250	7.19
−3.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up	*11 000	8650 *11 000 *11 000 *11 000 8650	7100 8500 *11 000 *11 000 8000	6800 *8200	4550 *8200 *8200 *8200 4550	3900 4550 7150 *8200 4300	*5800	3050 *5800 *5800 *5800 3050	2650 3050 4700 5500 2950				*5350	2900 *5350 *5350 *5350 2950	2550 2900 4450 5200 2800	6.24

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

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

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

Lift Capacities – One-Piece Boom (5350 mm)

All values are in kg, without bucket and without QC, with counterweight (4000 kg), heavy lift on.

*11 850

8550

7950

Load over front Load over rear Load over side Load at maximum reach (sticknose/bucket pin) T Load point height 3.0 m 4.5 m 6.0 m 7.5 m Long Stick ᆔ Undercarriage configuration 2800 mm 5150 Rear dozer up 3700 *5200 3250 *3050 2800 2500 Rear dozer down 3700 *3050 2800 Dozer and stabilizer down 2 sets of stabilizers down *5200 *5200 *5200 *5200 *3050 *3050 *5200 Wide axle rear dozer up 3700 3550 2800 2700 Rear dozer un 5000 3600 3150 3500 2150 *2950 2350 2050 *5750 *5750 *5750 3600 5250 *5750 *4050 *4050 *4050 2350 *2950 *2950 Rear dozer down Dozer and stabilizer down 2500 3650 *2950 *2950 7.73 4.5 m *5750 *4050 *2950 2 sets of stabilizers down *4050 Wide axle rear dozer up 3600 3450 2500 2400 2350 2250 3450 Rear dozer up 7500 5200 4800 3400 2950 2400 2100 3000 2100 1850 Rear dozer down *6450 *6450 3.0 m Dozer and stabilizer down *8350 7900 5050 5200 5350 3600 4150 *3000 *3000 8 12 *5550 *8350 *6450 *3000 2 sets of stabilizers down *8350 *8350 5850 Wide axle rear dozer up 2300 Rear dozer up Rear dozer down 7050 4600 2800 3200 3350 2300 5000 2000 2350 2900 2000 *3200 2050 9800 *3200 1.5 m Dozer and stabilizer down *9800 7450 4850 5100 3500 3050 8.21 2 sets of stabilizers down Wide axle rear dozer up *9800 4800 5650 3050 4050 2200 *3200 2000 *3200 1950 *9800 8800 *7150 *5800 *3200 Rear dozer up Rear dozer down 3900 4550 3050 6950 2650 3050 2250 4900 1950 2250 2050 *3600 1800 2050 6800 4550 4450 3250 3000 10 350 3450 4000 2150 Dozer and stabilizer down 2 sets of stabilizers down 10 350 7150 7050 7200 4700 5050 5150 *3600 3100 8.01 *3600 1950 °10 350 *7500 *5850 *3600 Wide axle rear dozer up 4550 2950 2050 4300 3050 4400 3000 2600 3000 3250 2250 *4250 Rear dozer up Rear dozer down *9000 8300 *9950 4450 6850 2250 Dozer and stabilizer down *9000 *9000 *9950 7100 7000 *4250 3400 7.50 2 sets of stabilizers down *9000 5400 *4250 3950 2150 Wide axle rear dozer up 8450 7800 4500 4250 3000 2850 2250 6750 4450 3900 *11 850 Rear dozer up 8550 7050 4500 3050 2600 2700 *5250 2350 2700 Rear dozer down 11 850 8400 *8600 4500 *6250 3050 Dozer and stabilizer down 2 sets of stabilizers down *11 850 *11 850 *6250 *6250 °5250

*8600

5650

*5650

4550

4700

*5650

4300

4050

4700

*5650

Industrial Stick 3300 mm –3.0 m

Wide axle rear dozer up

Rear dozer down Dozer and stabilizer down

2 sets of stabilizers down

Wide axle rear dozer up

Rear dozer up

>> _			3.0 m			4.5 m			6.0 m			7.5 m				=	
	Undercarriage configuration		P)	æ		7	₽	4	P)	GP-	4	P	ŒP	4	Ph	Œ₽	m
6.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up													*3250 *3250	2950 *3250 *3250 *3250 2950	2600 2950 *3250 *3250 2850	7.30
4.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up							5350 *5650	3900 *5650 *5650 *5650 3900	3450 3900 5550 *5650 3750	3800 *4500	2800 *4500 *4500 *4500 2800	2500 2800 3950 *4500 2700	*3250 *3250	2500 *3250 *3250 *3250 2500	2250 2500 *3250 *3250 2400	8.01
3.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				7900 *8000	5600 *8000 *8000 *8000 5600	4900 5600 *8000 *8000 5350	5150 *6450	3750 *6450 *6450 *6450 3750	3300 3700 5400 6200 3600	3750 *5600	2700 5400 5500 *5600 2700	2400 2700 3900 4450 2600	3150 *3350	2300 *3350 *3350 *3350 2300	2050 2300 3300 *3350 2200	8.38
1.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up				7500 *9750	5200 *9750 *9750 *9750 5200	4500 5200 7850 9250 4950	4950 *7250	3550 *7250 *7250 *7250 *7250 3550	3100 3550 5200 5950 3400	3650 *5950	2600 5300 5400 5500 2600	2300 2600 3800 4350 2500	3050 *3600	2200 *3600 *3600 *3600 2200	1950 2200 3200 *3600 2100	8.47
0.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up	*6950 *6950	*6950 *6950 *6950 *6950 *6950	*6950 *6950 *6950 *6950 *6950	7200 *10 650	4950 *10 650 *10 650 *10 650 4950	4250 4900 7550 8900 4700	4800 *7750	3400 7250 7400 7550 3400	2950 3400 5000 5800 3250	3550 *6200	2550 5200 5300 5400 2550	2250 2550 3700 4250 2450	3100 *4100	2200 *4100 *4100 *4100 2250	1950 2250 3250 3700 2150	8.27
–1.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up	*9700 *9700	8800 *9700 *9700 *9700 8800	7300 8650 *9700 *9700 8150	7050 *10 550	4800 *10 550 *10 550 *10 550 4800	4150 4800 7450 8750 4550	4700 *7800	3300 7150 7300 7450 3300	2900 3300 4900 5700 3150	3500 *6000	2500 5150 5250 5350 2500	2200 2500 3650 4200 2400	3350 *4950	2400 4900 *4950 *4950 2400	2100 2400 3500 4000 2300	7.78
–3.0 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up	*13 600 *13 600	8900	7350 8750 *13 600 *13 600 8250	7050 *9550	4800 *9550 *9550 *9550 4800	4150 4800 7400 8750 4550	4700 *7050	3300 *7050 *7050 *7050 3300	2850 3300 4900 5700 3150				3900 *5800	2750 5800 *5800 *5800 2750	2400 2750 4050 4700 2650	6.92
–4.5 m	Rear dozer up Rear dozer down Dozer and stabilizer down 2 sets of stabilizers down Wide axle rear dozer up	*10 050 *10 050	9100 *10 050 *10 050 *10 050 9100	7550 8950 *10 050 *10 050 8450	7150 *7300	4900 *7300 *7300 *7300 4950	4250 4900 *7300 *7300 4650							5350 *5650	3750 *5650 *5650 *5650 3800	3300 3750 5650 *5650 3600	5.50

*6250

3050

2900

6.60

5.09

2550

3450

3950 *4600

*4600

*5250

2700

4000

*4600 *4600

*4600

*5250

4600

*4600

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

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

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

M318D 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

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, 10.00-20 16 PR, dual

Tool boxes (right- and left-hand side)

in undercarriage

Two-piece drive shaft

Other Equipment

Automatic swing brake

Counterweight, 4000 kg

Mirrors, frame and cab

Product Link ready

Tool box in upperframe, lockable

M318D 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

Single action

One-way, high pressure circuit, for hammering application

Medium pressure

Basic control circuits:

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

Quick coupler control

Cat BIO HYDO Advanced HEES™ biodegradable hydraulic oil

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

 $SmartBoom^{TM}$

Front Linkage

Booms

One-piece boom, 5350 mm VA boom (two piece), 5260 mm Bucket linkage with diverter valve Sticks

2200, 2500, 2800 mm 3300 mm industrial with drop nose

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

Travel speed lock Vandalism guards

Visor for rain protection

visor for fam prote

Windshield

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

Undercarriage

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

Other Equipment

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

M318D Wheel Excavator

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