

Cat® C6.6 engine with ACERT™ Technolo	gy
Net power (ISO 9249) at 1800 rpm	124 kW/169 hp
Operating weight	18 200 to 20 100 kg
Bucket capacities	0.35 to 1.26 m ³
Maximum reach at ground level	9600 mm
Maximum digging depth	6360 mm
Maximum travel speed	37 km/h

M318D Wheel Excavator

The D Series incorporates innovations for improved performance and versatility.

Engine

✓ Caterpillar's exclusive ACERTTM
Technology surpasses the most stringent emissions requirements in the construction industry. The EU Stage IIIA compliant C6.6 offers increased performance and reliability while reducing fuel consumption and sound levels. pg. 4

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. pg. 5

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 optional rear-mounted camera. pg. 6

Environmentally Responsible Design

✓ Helping to protect our environment, the engine has low operator and spectator sound levels, longer filter change intervals and is more fuelefficient. pg. 4

SmartBoom™

✓ More productive. Faster cycle times for truck loading and rock scraping. Maintains optimum hammering frequency for effective, steady productivity. pg. 5

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



✓ New Feature

Undercarriage

Various undercarriage configurations are available to provide the best solution for your work environment; these configurations can include a dozer blade and/or outriggers depending on your needs. **pg. 8**

Booms and Sticks

Caterpillar® excavator booms and sticks are built for performance and long service life. The box section design provides the strength needed for even the toughest applications. Multiple boom and stick options allow you to pick the best match for your job. pg. 9

Work Tools

The combination of Caterpillar machines and work tools provide a total solution for any application. A variety of couplers, buckets, hammers, grapples, shears, multi-processors to name a few are offered to optimize your machine's versatility. **pg. 11**

Versatility

Caterpillar offers a wide variety of factory-installed attachments that enhance performance and job site management. **pg. 10**

Serviceability

For increased safety, all daily maintenance points are accessible from ground level. A centralized greasing system allows lubrication of critical points. pg. 12

Complete Customer Service

Your Cat® dealer offers a wide range of services that can be set up under a customer support agreement when you purchase your equipment. Your dealer will help you choose a plan that can cover everything from machine and attachment selection to replacement. pg. 13



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 1800 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.

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 EU Stage IIIA compliant Cat C6.6 offers increased performance and reliability while reducing 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 (HEESTM) is formulated to provide excellent high-pressure and high temperature characteristics, and is fully compatible with all hydraulic components. 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 Caterpillar 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.

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%. Heavy loads can be easily moved in the full working range of the machine, maintaining excellent stability.

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 pre programmed work tools from the monitor.
 These preset hydraulic parameters support
 either one-way or two-way flow.
 The joystick sliding switches allow
 modulated control of the work tool.



- 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
 quick coupler.



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, stick and bucket cylinders. These snubbers help cushion shocks, reduce sound and increase cylinder life.

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

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.

Operator Comfort

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



Interior Operator Station. Improved visibility and ergonomics are some of the many new features of the D-Series Wheel Excavators. The pressurized operator station provides maximum space and is designed for simplicity and functionality. Frequently used switches are centralized and are situated on the right-hand switch console. The 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.

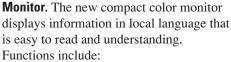




Viewing Area. To maximize visibility, all glass is affixed directly to the cab, eliminating the use of window frames. Choice of fixed or easy-to-open split front windshield meet operator preference and application conditions.

- The 50/50 split front windshield allows both upper and lower portions to be stored in an overhead position and features the one-touch action release system.
- 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 unique large skylight without cross bar provides superb upward visibility. The retractable sunscreen blocks direct sunlight.





- 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 pre-defined 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.
 The optional camera is mounted on the counterweight.







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

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.







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

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

Undercarriage

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







Increased Travel Speed. The maximum travel speed for the D-Series excavators 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 with pin on/bolt on design provides excellent flexibility, 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 eliminates the rocking effect associated with working free on wheels. The axle design lowers maintenance and lifetime costs. Oil change intervals are at 2000 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.



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 pre-set combinations. This eliminates the need to re-set 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 new automatic travel mode is activated with a button in the right hand console. In this setting, the transmission will automatically shift up or down, depending on the speed conditions. 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 pre-wired 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

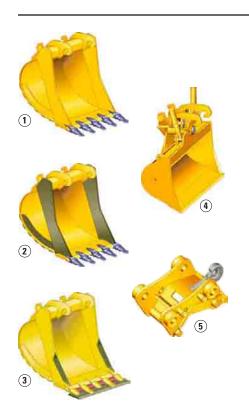
acting as shock absorbers to dampen the front part motion. Ride control can be activated through a button located on the soft switch panel in the cab.

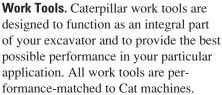




Work Tools

A wide variety of Work Tools help optimize machine performance. Purpose designed and built to Caterpillar's high durability standards.





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 Caterpillar K SeriesTM Ground Engaging Tools.

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









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 Caterpillar 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 performancematched 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 boom-mounted options.

Serviceability and Complete Customer Support

Simplified and easy maintenance save you time and money. Cat dealer services help you operating longer with lower costs.





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•S Scheduled Oil Sampling analysis, hydraulic oil change intervals can be extended up to 4000 hours. Engine coolant change intervals are 12 000 hours with Cat Extended Life Coolant.

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

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

Air Filters. Caterpillar air filters eliminate the use of service tools, reducing maintenance time. The air filter features a double-element construction with wall flow filtration in the main element and built-in mini-cyclone precleaners for superior cleaning efficiency. The air filters are constantly monitored for optimum performance. If airflow becomes restricted, a warning is displayed by the way of the in-cab monitor.

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

Fuel Filters. Cat high efficiency fuel filters with a Stay-Clean Valve™ 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.



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

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•S Oil Sampling Analysis to help ensure better performance, longer life and increased customer satisfaction. This thorough and reliable early warning system detects traces of metals, dirt and other contaminants in your engine, axle and hydraulic oil. It can predict potential trouble avoiding costly failures. Your Caterpillar dealer can give you results and specific recommendations shortly after receiving your sample.

Engine 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. One block is located in the engine compartment with two grease points for the swing bearing and front-end attachment. For the undercarriage, two remote blocks provide easy access for greasing the oscillating axle and, as an option, the dozer blade.

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





New Auto-Lube System. The new automatic lubrication system provides the optimal amount of grease to all the main lubrication points, including the bucket linkage. The lubrication interval can be adjusted through the monitor, and status messages for the auto-lube system are displayed.

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

Storage Box. There are two tool boxes integrated in the steps of the undercarriage. Additionally, there is a waterproof storage box integrated into the upper structure steps.

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

Selection. Make detailed comparisons of the machines you are considering before you buy. How long do components last? What is the cost of preventive



maintenance? Your Cat dealer can give you precise answers to these questions to make sure you operate your machines at the lowest cost.

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

Operation. Improving operating techniques can boost your profits. Your Cat dealer has videotapes, literature and other ideas to help you increase productivity, and Caterpillar offers certified operator training classes to help maximize the return on your machine investment.

Maintenance. More and more equipment buyers are planning for effective maintenance before buying equipment. Choose from your dealer's wide range of maintenance services at the time you purchase your machine. Repair option programs guarantee the cost of repairs up front. Diagnostic programs such as S•O•S Fluid Analysis and Technical Analysis help you avoid unscheduled repairs.

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

Engine

Cat C6.6 with ACER	T Technology
Ratings	1800 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 liters
Cylinders	6
Maximum torque at	1400 rpm 805 Nm

- 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 liters
System	270 liters
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

Cab

FOGS meets ISO 10262.

Sound Levels

Operator Sound

The operator sound level measured according to the procedures specified in ISO 6394:1998 is 72 dB(A), for cab offered by Caterpillar, when properly installed and maintained and tested with the doors and windows closed.

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).

Transmission

	km/h
Forward/reverse	
1st gear	8
2nd gear	37
Creeper speed	
1st gear	3
2nd gear	13
Drawbar pull	99 kN
Maximum Gradeability	60%

Swing Mechanism

Swing speed	10.5 rpm
Swing torque	46 kNm

Tires

Standard

• 10.00-20 (dual pneumatic)

Optional

- 11.00-20 (dual pneumatic)
- 18 R 19.5 XF (single pneumatic)
- 600/40-22.5 (single pneumatic)
- 10.00-20 (dual solid rubber)

Undercarriage

	mm
Ground clearance	370
Maximum steering angle	35°
Oscillation axle angle	± 9°
Minimum turning radius	
Standard axle	
outside of tire	6400
end of VA boom	7000
end of one-piece boom	8300
Wide axle	
outside of tire	6500
end of VA boom	7100
end of one-piece boom	8500

Service Refill Capacities

	Liter
Fuel tank	385
Cooling	32
Engine crankcase	15
Rear axle housing (differential)	14
Front steering axle (differential)	10.5
Final drive	2.5
Powershift transmission	2.5

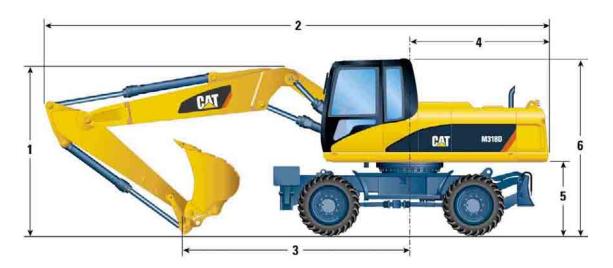
Weights

VA boom*	kg	Sticks	kg
rear dozer only	17 800	short (2200 mm)	550
rear dozer, front outriggers	18 950	medium (2500 mm)	580
front and rear outriggers	19 150	long (2800 mm)	600
One-piece boom*		industrial (3300 mm)	520
rear dozer only	17 250	Dozer blade	740
rear dozer, front outriggers	18 400	Outriggers	1030
front and rear outriggers	18 600	Counterweight	4000

^{*} Machine weight with medium stick, counterweight, full fuel tank and operator, without work tool.

Dimensions

All dimensions are approximate.



			VA B	oom		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	8850	8820	8850	8870	8960	8950	9000					
3 Support point	mm	3920	3650	3510	3270	3810	3490	3310	3080					
4 Tail swing radius	mm		25	00			2500							
5 Counterweight clearance	mm		12	75			1275							
6 Cab height	mm		31	70			31	70						
with 1200 mm fixed cab riser	mm		43	43	70									
Overall machine width	mm	2550 2550												
Wide gauge axle	mm		27	50			27	50						

^{*} Industrial stick







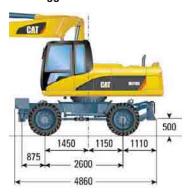
Undercarriage with dozer only



Undercarriage with 2 sets of outriggers



Undercarriage with 1 set of outriggers and dozer



Bucket Specifications

Contact your Caterpillar dealer for special bucket requirements.

Pin-on Buckets					Var	iable		ustak) mm	le B	oom								One	-pie 5350									
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	set of stabilizer lowered	Fully etabilized
	mm	kg	m³		F	Doz	1 se	Ę	Free	Doz	1 se	F	Free	Doz	1 se	Full	Free	Doz	1 se	F.	Free	Doz	1 se	F	Free	Doz	1 se	=
	600	478	0.38	3																								
	750	507	0.52	3																								L
	900	568 602	0.65	4																								╀
Excavation	1100	634	0.75	4													-											+
	1200	678	0.94	5																								
	1300	710	1.03	5																								
	1400	744	1.13	5																								L
Extreme Excavation	1200	712	0.94	5																								
	1300	745 514	1.03 0.41	5 3																								
	750	544	0.41	3																								
	800	582	0.61	4																								
Excavation	900	611	0.70	4																								
(leveling)	1000	651	0.82	4																								
(g)	1100	687	0.92	4																								
	1200	740	1.04	5													_											
	1300 1400	777 813	1.14	5 5													-											
Extreme Excavation	1200	772	1.20	5																								\vdash
(leveling)	1300	809	1.14	5																								
Ditch Cleaning	1800	630	0.90																									
	2000	685	1.00																									
Tiltable Ditch Cleaning	1800 2000	875 912	0.75																									
CW Quick Coup																												
-	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 1400	671 703	1.03	5 5																								╫
	1200	674	0.94	5													-											
Extreme Excavation	1300	707	1.03	5																								
	600	498	0.41	3																								
	750	547	0.56	3																								
	800	526	0.61	4																								
Excavation	900	575 614	0.70	4																								
(leveling)	1100	651	0.82	4																								
	1200	704	1.04	5																								
	1300	741	1.14	5																								
	1400	777	1.26	5																								
	600	523	0.41	3																								
Extreme Excavation	800	555	0.61	4																								
xtreme Excavation	1000	644	0.82	4																								
(leveling)	1200 1300	736 773	1.04	5 5									\vdash															
(leveling)		110	_	J	_				\vdash																-			
(leveling)	-	592	0.90																									
(leveling) Ditch Cleaning	1800	592 645	0.90																									
	1800	645																										

* Bucket weight includes
Ground Engaging Tools

Maximum material density

Maximum material density

Maximum material density

1500 kg/m³

Maximum material density

1200 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.

			Variable Adjustable Boom 5260 mm 2 sets Dozer														One-piece Boom 5350 mm										
					zer ered		2 sets of stabilizer lowered				а	Do nd sta low	abiliz	er	Dozer lowered				2 sets of stabilizer lowered					Dozer and stabilizer lowered			
Without Quick Coupler	Sti	ck 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	0	
Hammers	H115 S, H1	20C S												.,,				1,,								Ė	
	MP15	CC, CR																								Ī	
	MP15	PP, PS																								Г	
Multiprocessors	MP15	S																								ſ	
	MP20	CC, CR																								T	
	MP20	PP, PS, S																								T	
Mechanical Pulverizer	P115																									ſ	
	S320																									t	
Hydraulic Shears	S320*																									t	
(* boom mounted)	S325*																									t	
	G315B																									t	
Multi-Grapples	33.05	D R																								H	
	G320B	D, R																								t	
	G112	5,11												\vdash												t	
Mechanical Grapples	G115	+																								H	
Compactor	CVP75	+																								ł	
Compactor	GSH15B	400																								H	
	5 tines	400					_								H				_							+	
	Julios	500																								+	
		600																	_							4	
		800																								1	
	GSH15B	400																								1	
	4 tines	500																								1	
Orange Peel Grapples	COLLOOD	600																									
3		800																									
	GSH20B	600																								L	
	5 tines	800																									
		1000																								Γ	
	GSH20B	600																								Γ	
	4 tines	800																								T	
		1000																								T	
With Quick Coupler (CW																											
	MP15	CC, CR												Ш												1	
	MP15	PP, PS																									
Multiprocessors	MP15	S																									
	MP20	CC, CR																									
	MP20	PP, PS, S																								Γ	
Hydraulic Shear	S320																									T	
	G315B	D																								Ī	
Multi-Grapples	G315B	R																								Ī	
• •	G320B	D, R																								t	
	G112	†																								İ	
Mechanical Grapples	G115																									t	
Compactor		+																								t	
Compactor	UVP/5	360° Working Range Over the front only											Maximum material density 3000 kg/m³ Maximum material density 1800 kg/m³														

Lift Capacities — Variable Adjustable Boom (5260 mm) All values are in kg, without bucket, with CW quick coupler (219 kg), heavy lift on.

Short Stick 2200 mm

15	Undercarriage		3.0 m			4.5 m			6.0 m			7.5 m							
	configuration	ľ												Ū.			m		
6.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*6200 *6200 *6200	*6200 *6200	5000 5700 *6200 *6200 *6200	5000 *5800 *5800	*5800 *5800	3100 3500 4200 *5800 5100									
4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*7200 *7200 *7200	*7200 *7200	4800 5500 6600 *7200 *7200	*6000 *6000	*6000 *6000	3100 3600 4300 5900 5100				*3000 *3000	*3000 *3000	1900 2200 2700 *3000 *3000	7.77		
3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*9500 *9500 *9500	*9500 *9500	8500 *9500 *9500 *9500 *9500	7400 *8700 *8700	*8700 *8700	4700 5400 6400 *8700 7700	*6600 *6600	*6600 *6600	3100 3600 4300 5800 5000	3300 *5500 *5500	5200 4500	1900 2200 2800 4000 3400	2900 *3000 *3000	*3000 *3000	1700 2000 2400 *3000 *3000	8.19		
1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*12 700 *12 700 *12 700	*12 700 *12 700	8200 9700 11 900 *12 700 *12 700	7400 *9900 *9900	*9900 *9900	4600 5300 6400 8900 7600	*7100 *7100	*7100 6500	3000 3500 4200 5800 5000	3200 *5700 *5700	5100 4500	1900 2200 2700 3900 3300	2800 *3200 *3200	*3200 *3200	1600 1900 2300 *3200 2800	8.29		
0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	14 500 *15 000 *15 000	*15 000 *15 000	8000 9500 12 100 *15 000 14 800	7500 *10 100 *10 100	*10 100 *10 100	4400 5100 6300 8900 7600	4700 *7300 *7300	*7300 6600	2800 3300 4000 5700 4900	3100 *5500 *5500	5000 4400	1800 2100 2600 3900 3200	2800 *3500 *3500	*3500 *3500	1600 1900 2400 *3500 2900	8.07		
-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	14 700 *16 400 *16 400	*16 400 *16 400	7700 9100 11 800 *16 400 15 100	7300 *10 300 *10 300	*10 300 *10 300	4300 4900 6100 9100 7500	4500 *7500 *7500	7400 6400	2600 3100 3800 5500 4600				3100 *4000 *4000	*4000 *4000	1800 2100 2600 3900 3200	7.51		
-3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	14 800 *16 900 *16 900	*16 900 *16 900	7700 9200 11 800 *16 900 15 100	7000 *10 100 *10 100	*10 100 *10 100	4000 4700 5800 8800 7200	*5200 *5200	*5200 *5200	2500 2900 3600 *5200 4500									

Medium Stick 2500 mm

17-19	Undercarriage		3.0 m			4.5 m			6.0 m			7.5 m			4		
	configuration			₽	J	P	Œ		P	Œ-		P	CF-			Œ	m
6.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down							5000 *5200 *5200	*5200 *5200	3200 3600 4300 *5200 5100							
4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*6600 *6600	*6600 *6600	4900 5600 *6600 *6600 *6600	5000 *5800 *5800	*5800 *5800	3200 3600 4300 *5800 5100	3400 *3800 *3800	*3800 *3800	2000 2300 2800 *3800 3500	*2300 *2300 *2300	*2300 *2300	1800 2100 *2300 *2300 *2300	8.10
3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*10 000 *10 000 *10 000	*10 000 *10 000	8500 *10 000 *10 000 *10 000 *10 000	7600 *8400 *8400	*8400 *8400	4700 5400 6500 *8400 7700	*6500 *6500	*6500 *6500	3100 3600 4300 5900 5100	3400 *5500 *5500	5200 4600	2000 2300 2800 4100 3500	*2300 *2300 *2300	*2300 *2300	1600 1900 *2300 *2300 *2300	8.51
1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*12 600 *12 600 *12 600	*12 600 *12 600	8300 9700 12 000 *12 600 *12 600	7400 *9700 *9700	*9700 *9700	4600 5300 6400 8900 7600	4900 *7100 *7100	*7100 6500	3100 3500 4300 5800 5000	3300 *5700 *5700	5200 4500	2000 2300 2800 4000 3400	*2400 *2400 *2400	*2400 *2400	1500 1800 2200 *2400 *2400	8.60
0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	14 500 *14 600 *14 600	*14 600 *14 600	8100 9600 12 100 *14 600 *14 600	7500 *10 100 *10 100	*10 100 *10 100	4500 5200 6400 8900 7600	*7300 *7300	*7300 6600	2900 3400 4100 5800 4900	3200 *5700 *5700	5100 4400	1900 2200 2700 3900 3300	*2700 *2700 *2700	*2700 *2700	1500 1800 2200 *2700 *2700	8.39
-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	14 800 *16 400 *16 400	*16 400 *16 400	7800 9200 11 900 *16 400 15 100	7300 *10 200 *10 200	*10 200 *10 200	4300 5000 6100 9100 7500	4600 *7400 *7400	7400 6400	2700 3100 3800 5600 4700				2900 *3000 *3000	*3000 *3000	1700 2000 2500 *3000 *3000	7.86
-3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	14 700 *16 900 *16 900	*16 900 *16 900	7700 9200 11 800 *16 900 15 100	7100 *10 500 *10 500	*10 500 *10 500	4100 4800 5900 8900 7300	*6300 *6300	*6300 6300	2600 3000 3700 5400 4500							
-4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*12 500 *12 500 *12 500	*12 500 *12 500	7600 9000 11 600 *12 500 *12 500													

Long	
Stick	
2800	mm

Load point height

Load over front

Load over rear

Load over side

Load at maximum reach

Load point height

15	Undercarriage		3.0 m			4.5 m			6.0 m			7.5 m			*		
	configuration								P		J.		CF-				m
6.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down							*4800 *4800 *4800	*4800 *4800	3200 3700 4400 *4800 *4800							
4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*5600 *5600 *5600	*5600 *5600	4900 *5600 *5600 *5600 *5600	*5000 *5500 *5500	*5500 *5500	3200 3600 4300 *5500 5100	3400 *4200 *4200	*4200 *4200	2100 2400 2900 4100 3500	*2100 *2100 *2100	*2100 *2100	1700 1900 *2100 *2100 *2100	8.41
3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*9800 *9800 *9800	*9800 *9800	*9800 *9800 *9800 *9800	7600 *8000 *8000	*8000 *8000	4700 5400 6500 *8000 7700	*6200 *6200	*6200 *6200	3100 3600 4300 5900 5000	3400 *5300 *5300	5200 4600	2100 2400 2900 *4100 3500	*2100 *2100 *2100	*2100 *2100	1500 1700 *2100 *2100 *2100	8.80
1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*12 600 *12 600 *12 600	*12 600 *12 600	8300 9700 12 000 *12 600 *12 600	7400 *9500 *9500	*9500 *9500	4600 5300 6300 8900 7600	*6900 *6900	*6900 6900	3100 3500 4200 5800 5000	3300 *5600 *5600	5200 4600	2000 2300 2800 4000 3400	*2200 *2200 *2200	*2200 *2200	1400 1700 *2100 *2200 *2200	8.89
0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	14 100 *14 100 *14 100	*14 100 *14 100	8200 9700 12 000 *14 100 *14 100	7400 *10 100 *10 100	*10 100 *10 100	4500 5200 6400 8900 7600	*7300 *7300	7200 6500	3000 3400 4100 5800 5000	3200 *5700 *5700	5100 4500	1900 2200 2700 3900 3300	*2300 *2300 *2300	*2300 *2300	1400 1700 2100 *2300 *2300	8.69
-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*16 200 *16 200	*16 200 *16 200	7800 9200 11 900 *16 200 15 000		*10 200 *10 200	4300 5000 6100 9000 7500	*7400 *7400	7300 6500	2800 3200 3900 5600 4800	3100 *5200 *5200	5000 4400	1800 2100 2600 3800 3200	*2700 *2700 *2700	*2700 *2700	1600 1800 2300 *2700 *2700	8.17
-3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	14 700 *16 600 *16 600	*16 600 *16 600	15 100	7200 *10 500 *10 500	*10 500 *10 500	4200 4800 6000 9000 7400	*6900 *6900	*6900 6300	2600 3000 3700 5500 4600							
-4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*14 400 *14 400 *14 400	*14 400 *14 400	7600 9000 11 600 *14 400 *14 400	7000 *7400 *7400	*7400 *7400	4000 4600 5800 *7400 7200										

Industrial Stick 3300 mm

> →	Undercarriage		3.0 m			4.5 m			6.0 m			7.5 m				No.	
	configuration		P		Ø,				P			P			P	æ	m
6.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down							*5000 *5000 *5000	*5000 *5000	3600 4100 4800 *5000 *5000							
4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*5900 *5900 *5900	*5900 *5900	5300 *5900 *5900 *5900 *5900	5400 *5800 *5800	*5800 *5800	3600 4000 4700 *5800 5500	3800 *4500 *4500	*4500 *4500	2500 2800 3300 *4500 3900	*3100 *3100 *3100	*3100 *3100	2200 2500 2900 *3100 *3100	8.02
3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*10900 *10900 *10900	*10900 *10900	9100 10500 *10900 *10900 *10900	*8200 *8200	*8200 *8200	5100 5800 6900 *8200 *8200	*6500 *6500	*6500 *6500	3500 3900 4600 6200 5400	3800 *5600 *5600	*5600 5000	2500 2800 3300 4500 3900	3100 *3200 *3200	*3200 *3200	2000 2300 2700 *3200 *3200	8.4
1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*13700 *13700 *13700	*13700 *13700	8800 10100 12500 *13700 *13700	7800 *9800 *9800	*9800 *9800	5000 5700 6800 9400 8000	5300 *7300 *7300	*7300 6900	3500 3900 4600 6200 5400	3800 *6000 *6000	5600 5000	2400 2700 3200 4500 3900	3000 *3400 *3400	*3400 *3400	1900 2200 2600 *3400 3100	8.48
0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	14900 *15000 *15000	*15000 *15000	8700 10100 12500 *15000 *15000	7800 *10600 *10600	*10600 *10600	5000 5700 6700 9300 8000	5300 *7700 *7700	*7700 6900	3400 3800 4500 6200 5400	3600 *6100 *6100	5500 4900	2300 2600 3100 4400 3700	3100 *3800 *3800	*3800 *3800	1900 2200 2600 3700 3200	8.29
-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	15100 *16700 *16700	*16700 *16700	8300 9800 12400 *16700 15400	7800 *10700 *10700	*10700 10600	4700 5400 6600 9400 8000	5000 *7800 *7800	7700 6900	3100 3600 4300 6100 5200	3500 *5900 *5900	5400 4800	2200 2500 3000 4200 3600	3300 *4500 *4500	*4500 *4500	2100 2300 2800 4000 3400	7.79
-3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	15100 *17100 *17100	*17100 *17100	8100 9500 12200 *17100 15500	7500 *10900 *10900	*10900 *10900	4500 5200 6300 9300 7700	4800 *7600 *7600	*7600 6700	2900 3400 4100 5800 4900							
-4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	14900 *15600 *15600	*15600 *15600	7900 9300 11900 *15600 15200	7300 *8500 *8500	*8500 *8500	4300 5000 6100 *8500 7500										

^{*} Limited by hydraulic rather than tipping load. Lift capacity ratings are based on ISO 10567, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Oscillating axle must be locked.

Lift Capacities — One-piece Boom (5350 mm) All values are in kg, without bucket, with CW quick coupler (219 kg), heavy lift on.

Short Stick 2200 mm

15	Undercarriage		3.0 m			4.5 m			6.0 m			7.5 m				No.	
	configuration		n		ľ	P	æ		P	CP-		P	æ		P	æ	m
6.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down							*5600 *5600	*5600 *5600	3000 3500 4200 *5600 5000							
4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*7000 *7000 *7000	*7000 *7000	4700 5300 6500 *7000 *7000	4800 *5900 *5900	*5900 *5900	3000 3400 4100 5800 5000				*3100 *3100 *3100	*3100 *3100	1900 2200 2700 *3100 *3100	7.79
3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				7200 *8600 *8600	*8600 *8600	4300 4900 6100 *8600 7400	*6600 *6600	*6600 6500	2800 3200 3900 5700 4800	3300 *5500 *5500	5100 4500	1900 2200 2700 4000 3400	2900 *3200 *3200	*3200 *3200	1700 2000 2400 *3200 3000	8.22
1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*9900 *9900	*9900 *9900	3900 4500 5600 8500 7000	*7200 *7200	*7200 6300	2600 3000 3700 5500 4600	3200 *5700 *5700	5000 4400	1900 2200 2700 3900 3300	2700 *3400 *3400	*3400 *3400	1600 1900 2300 *3400 2800	8.31
0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				6600 *10200 *10200	*10200 9900	3700 4300 5400 8300 6800	4300 *7400 *7400	7100 6100	2500 2900 3600 5300 4400	3100 *5700 *5700	5000 4300	1800 2100 2600 3800 3200	2800 *3800 *3800	*3800 *3800	1600 1900 2400 3500 2900	8.09
-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*9200 *9200 *9200	*9200 *9200	6800 8100 *9200 *9200 *9200	6500 *9600 *9600	*9600 *9600	3700 4300 5400 8300 6800	*7000 *7000	*7000 6100	2500 2900 3600 5300 4400				3100 *4400 *4400	*4400 4300	1800 2100 2600 3800 3200	7.53
-3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*10700 *10700 *10700	*10700 *10700	6900 8300 *10700 *10700 *10700	*8000 *8000	*8000 *8000	3700 4400 5500 *8000 6800	*5600 *5600	*5600 *5600	2500 2900 3600 5300 4500							

Medium Stick 2500 mm

5	Undersoniens		3.0 m			4.5 m			6.0 m			7.5 m					
	Undercarriage configuration		P		J	P		Ø.	P		Ø.	P	C.	J.	P		m
6.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down							*5200 *5200	*5200 *5200	3100 3500 4200 *5200 5100							
4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down							*5700 *5700	*5700 *5700	3000 3400 4100 *5700 5000	3400 *4000 *4000	*4000 *4000	2000 2300 2800 *4000 3500	*2500 *2500 *2500	*2500 *2500	1800 2100 *2500 *2500 *2500	8.13
3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				7300 *8300 *8300	*8300 *8300	4400 500 6200 *8300 7500	4700 *6400 *6400	*6400 *6400	2800 3300 4000 5700 4800	3300 *5400 *5400	5200 4500	2000 2300 2800 4000 3400	*2500 *2500 *2500	*2500 *2500	1600 1900 2300 *2500 *2500	8.53
1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				6900 *9700 *9700	*9700 *9700	4000 4600 5700 8600 7100	4500 *7100 *7100	*7100 6300	2700 3100 3800 5500 4600	3200 *5700 *5700	5100 4400	1900 2200 2700 3900 3300	2600 *2700 *2700	*2700 *2700	1500 1800 2200 *2700 *2700	8.62
0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				6700 *10200 *10200	*10200 10000	3800 4400 5500 8400 6900	*7400 *7400	7100 6200	2500 2900 3600 5400 4500	3100 *5700 *5700	5000 4400	1800 2100 2600 3800 3200	2700 *2900 *2900	*2900 *2900	1600 1800 2002 *2900 2800	8.41
-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*8600 *8600	*8600 *8600	6800 8100 *8600 *8600 *8600	*9800 *9800	*9800 *9800	3700 4300 5400 8300 6800	*7200 *7200	7100 6100	2500 2900 3600 5300 4400				2900 *3400 *3400	*3400 *3400	1700 2000 2500 *3400 3000	7.88
-3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*11600 *11600 *11600	*11600 *11600	6900 8300 10800 *11600 *11600	*8400 *8400	*8400 *8400	3700 4400 5500 8300 6800	*6100 *6100	*6100 *6100	2500 2900 3600 5300 4400							
-4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*5400 *5400 *5400	*5400 *5400	3900 4600 *5400 *5400 *5400										

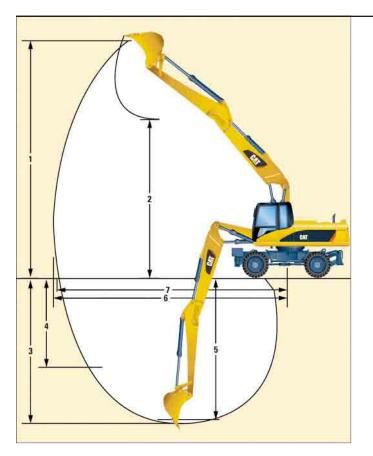
Long	(T)	Undercarriage		3.0 m			4.5 m			6.0 m			7.5 m			#	No.	
Stick		configuration		P							Œ			Œ			Œ	m
2800 mm	6.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down							*4800 *4800 *4800	*4800 *4800	3100 3600 4300 *4800 *4800							
	4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down							*5400 *5400	*5400 *5400	3000 3500 4200 *5400 5000	3400 *4200 *4200	*4200 *4200	2100 2400 2900 4100 3500	*2200 *2200 *2200	*2200 *2200	1700 2000 *2200 *2200 *2200	8.46
	3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				7400 *7900 *7900	*7900 *7900	4400 5100 6200 *7900 7600	4700 *6200 *6200	*6200 *6200	2900 3300 4000 5700 4800	3300 *5300 *5300	5200 4500	2000 2300 2800 4000 3400	*2200 *2200 *2200	*2200 *2200	1500 1800 *2200 *2200 *2200	8.81
	1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*9500 *9500	*9500 *9500	4000 4700 5800 8700 7100	4500 *6900 *6900	*6900 6300	2700 3100 3800 5500 4600	3200 *5600 *5600	5100 4400	1900 2200 2700 3900 3300	*2400 *2400 *2400	*2400 *2400	1400 1700 2100 *2400 *2400	8.90
Load point height Load over front	0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*5000 *5000 *5000	*5000 *5000	*5000 *5000 *5000 *5000 *5000	*10200 *10200	*10200 10000	3800 4400 5500 8400 6900	*7300 *7300	7100 6200	2500 2900 3600 5300 4500	3100 *5700 *5700	5000 4300	1800 2100 2600 3800 3200	2500 *2600 *2600	*2600 *2600	1500 1700 2100 *2600 *2600	8.70
Load over rear	-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*8300 *8300 *8300	*8300 *8300	6700 8100 *8300 *8300 *8300	6500 *9900 *9900	*9900 9900	3700 4300 5400 8300 6700	4200 *7200 *7200	7000 6100	2400 2900 3500 5300 4400	3100 *5400 *5400	4900 4300	1800 2100 2600 3800 3200	2700 *3000 *3000	*3000 *3000	1600 1900 2300 *3000 2800	8.19
Load over side	-3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*12400 *12400 *12400	*12400 *12400	6800 8200 10700 *12400 *12400	*8800 *8800	*8800 *8800	3700 4300 5400 8300 6800	*6400 *6400	*6400 6100	2500 2900 3600 5300 4400							
maximum reach Load point height	-4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*8600 *8600	*8600 *8600	7100 8500 *8600 *8600 *8600	*6200 *6200 *6200	*6200 *6200	3800 4500 5600 *6200 *6200										

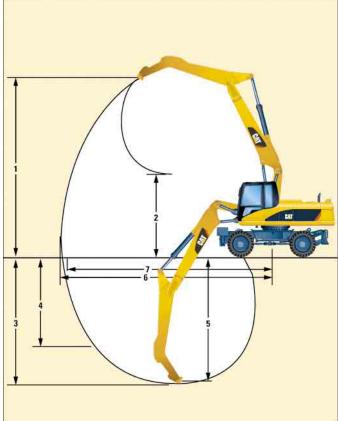
Industrial Stick 3300 mm

> →	Undercarriage		3.0 m			4.5 m			6.0 m			7.5 m				No.	
	configuration		P		J.		œ		P	CF-			CF-		P	CF-	m
4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down							5300 *5700 *5700	*5700 *5700	3500 3900 4600 *5700 5500	3800 *4500 *4500	*4500 *4500	2500 2800 3300 *4500 3900	*3200 *3200 *3200	*3200 *3200	2200 2500 3000 *3200 *3200	8.01
3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				7900 *8000 *8000	8000 *8000	4900 5600 6700 *8000 *8000	5100 *6500 *6500	*6500 *6500	3300 3700 4400 6200 5300	3700 5600 5600	5600 5000	2400 2700 3200 4400 3800	*3200 *3400 *3400	*3400 *3400	2000 2300 2700 *3400 3300	8.38
1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				7500 *9800 *9800	*9800 *9800	4500 5200 6300 9200 7700	*7300 *7300	*7300 6800	3100 3500 4200 6000 5100	3600 *6000 *6000	5500 4800	2300 2600 3100 4300 3700	3100 *3600 *3600	*3600 *3600	2000 2200 2600 *3600 3100	8.47
0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*7000 *7000 *7000	*7000 *7000	*7000 *7000 *7000 *7000 *7000	7200 *10 700 *10 700	*10 700 10 500	4300 4900 6000 8900 7400	4800 *7800 *7800	7600 6600	3000 3400 4100 5800 4900	3500 *6200 *6200	5400 4800	2200 2500 3000 4200 3600	3100 *4100 *4100	*4100 *4100	2000 2200 2700 3700 3200	8.27
-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*9700 *9700 *9700	*9700 *9700	7300 8600 *9700 *9700 *9700	7000 10 600 *10 600	*10 600 10 400	4100 4800 5900 8700 7200	4700 *7800 *7800	7500 6500	2900 3300 4000 5700 4800	3500 *6000 *6000	5300 4700	2200 2500 3000 4200 3600	3300 *4900 *4900	*4900 4500	2100 2400 2900 4000 3400	7.78
-3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*13 600 *13 600 *13 600	*13 600 *13 600	7400 8700 11 200 *13 600 *13 600	7000 *9600 *9600	*9600 *9600	4100 4800 5900 8700 7200	4700 *7100 *7100	*7100 6500	2900 3300 4000 5700 4800							
-4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*10 100 *10 100 *10 100	*10 100 *10 100	7500 8900 *10 100 *10 100 *10 100	7100 *7300 *7300	*7300 *7300	4200 4900 6000 7300 *7300										

Limited by hydraulic rather than tipping load. Lift capacity ratings are based on ISO 10567, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Oscillating axle must be locked.

Working Ranges





		VA E	Boom			One-pied	e Boom	
mm	2200	2500	2800	*3300	2200	2500	2800	*3300
mm	9710	10 000	10 210	8620	8760	9010	9170	8620
mm	6700	6970	7190	3550	5900	6110	6270	3140
mm	5750	6060	6360	5320	5700	6000	6300	5250
mm	3220	3680	3960	_	2880	3340	3620	_
mm	5538	5865	6179	_	5488	5805	6119	_
mm	9180	9470	9760	8490	9180	9490	9770	8470
mm	8970	9300	9590	8290	9000	9320	9600	8270
kN	126	126	126	_	126	126	126	_
kN	102	91	85	_	102	91	85	_
	mm mm mm mm mm mm kN	mm 9710 mm 6700 mm 5750 mm 3220 mm 5538 mm 9180 mm 8970 kN 126	mm 2200 2500 mm 9710 10 000 mm 6700 6970 mm 5750 6060 mm 3220 3680 mm 5538 5865 mm 9180 9470 mm 8970 9300 kN 126 126	mm 9710 10 000 10 210 mm 6700 6970 7190 mm 5750 6060 6360 mm 3220 3680 3960 mm 5538 5865 6179 mm 9180 9470 9760 mm 8970 9300 9590 kN 126 126 126	mm 2200 2500 2800 *3300 mm 9710 10 000 10 210 8620 mm 6700 6970 7190 3550 mm 5750 6060 6360 5320 mm 3220 3680 3960 - mm 5538 5865 6179 - mm 9180 9470 9760 8490 mm 8970 9300 9590 8290 kN 126 126 126 -	mm 2200 2500 2800 *3300 2200 mm 9710 10 000 10 210 8620 8760 mm 6700 6970 7190 3550 5900 mm 5750 6060 6360 5320 5700 mm 3220 3680 3960 - 2880 mm 5538 5865 6179 - 5488 mm 9180 9470 9760 8490 9180 mm 8970 9300 9590 8290 9000 kN 126 126 126 - 126	mm 2200 2500 2800 *3300 2200 2500 mm 9710 10 000 10 210 8620 8760 9010 mm 6700 6970 7190 3550 5900 6110 mm 5750 6060 6360 5320 5700 6000 mm 3220 3680 3960 - 2880 3340 mm 5538 5865 6179 - 5488 5805 mm 9180 9470 9760 8490 9180 9490 mm 8970 9300 9590 8290 9000 9320 kN 126 126 126 - 126 126	mm 2200 2500 2800 *3300 2200 2500 2800 mm 9710 10 000 10 210 8620 8760 9010 9170 mm 6700 6970 7190 3550 5900 6110 6270 mm 5750 6060 6360 5320 5700 6000 6300 mm 3220 3680 3960 - 2880 3340 3620 mm 5538 5865 6179 - 5488 5805 6119 mm 9180 9470 9760 8490 9180 9490 9770 mm 8970 9300 9590 8290 9000 9320 9600 kN 126 126 126 - 126 126 126

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.

^{*} Industrial stick has no bucket linkage. All dimensions refer to sticknose.

Standard Equipment

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

Electrical

Alternator, 75 A

Maintenance free batteries

Lights

Boom working light

Cab interior light

Roading lights (two front, two rear)

Main shut-off switch

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

Cat XT-6 ES hoses

Heavy lift mode

Load-sensing Plus hydraulic system

Manual work modes (economy, power)

Separate swing pump

Stick regeneration circuit

Operator Station

Adjustable armrests

Ash tray with cigarette lighter (24 volt)

Beverage cup/can holder

Bolt-on FOGS capability

Bottle holder

Coat hook

Floor mat, washable, with storage

compartment

Fully adjustable suspension seat

Heater and defroster

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, working hour 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

Parallel mounted top and bottom wiper and washer

Positive filtered ventilation, pressurized cab

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 Pin-on design for dozer blade and outriggers

Tool box in undercarriage

Tires, 10.00-20 16 PR, dual

Two-piece drive shaft

Two-speed transmission,

manual and automatic gear shifting

Other Equipment

Automatic swing brake

Mirrors, frame and cab

Product Link ready

Upper structure storage box

Optional Equipment

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

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

Quick coupler control

Biodegradable hydraulic oil

(synthetic ester based)

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

Front Linkage

Booms

One-piece boom, 5350 mm

VA boom (two piece), 5260 mm

Bucket linkage with diverter valve

2200, 2500, 2800 mm

3300 mm industrial with drop nose

Electrical

Refueling pump

Rotating beacon on cab

Working lights, cab mounted (front and rear) Back-up alarm with three selectable modes

Heavy-duty maintenance free batteries Roading lights, rear (LED modules)

Operator Station

Adjustable hydraulic sensitivity

Air conditioner, heater and defroster with automatic climate control

Camera mounted on counterweight, displays

through cab monitor

Falling objects guard

Fixed cab riser, 1200 mm

Joystick steering

Lid for storage compartment

Radio ready mounting (12 V or 24 V)

at rear location including speakers

and 12 V converter

Seat, adjustable high-back

- mechanical suspension
- air suspension (vertical)
- deluxe with headrest, air suspension (horizontal and vertical), two-step seat heater, automatic weight adjustments, ventilated seat cushions, pneumatically adjustable lumbar support

Headrest

Travel speed lock

Vandalism guards

Visor for rain protection

Windshield

One-piece high impact resistant

50/50 split, openable; 70/30 split, openable

Undercarriage

Dozer blade, front and/or rear mounted

Outriggers, front and/or rear mounted

Second tool box for undercarriage Spacer rings for tires

Wide axles

Other Equipment

Auto-lube system (implements and swing gear)

Cat Machine Security System

Cat Product Link

Custom paint

Mirrors heated, frame and cab

Ride Control

Tool box in upperframe, lockable Waste Handling Package

ing Package

M318D Wheel Excavator

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

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

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