

M318D

Wheel Excavator



Engine

Engine Model	Cat [®] C6.6 ACERT™	
Net Power	124 kW	166 hp
	• Maximum power at 1,800 rpm	

Weights

Operating Weight	18 200 kg (40,124 lb) to 20 100 kg (44,313 lb)	
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Transmission

Maximum Travel Speed	37 km/h	23 mph
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M318D Wheel Excavator

The D Series incorporates innovations for improved performance and versatility.

Engine

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

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**

Versatility

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

Serviceability

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

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



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. 10**

Environmentally Responsible Design

- ✓ Helping to protect our environment, the engine has low operator and spectator sound levels, longer filter change intervals and is more fuel-efficient. **pg. 14**

Complete Customer Support

Your Cat® dealer offers a wide range of services that can be set up under a customer agreement when you purchase your equipment. Your dealer will help you choose a plan that can cover everything from machine and attachment selection to replacement. **pg. 15**



✓ *New Feature*

Engine

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



Powerful Performance. The Cat® C6.6 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 U.S. EPA Tier 3 engine emission regulations. The Cat C6.6 engine in the M318D delivers a maximum gross power of 130 kW (174 hp) 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 adjusts to the most efficient system operating point to save fuel without compromising road performance.

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

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

One-Touch Low Idle Control. The 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

Fast cycle times, increased lift capacity, and high bucket and stick forces combine 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 percent. 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 pre-selected.



Proportional Auxiliary Hydraulics.

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

- The Multi-Combined Valve is the core of the Tool Control System, allowing the operator to select up to ten pre-programmed work tools from the monitor. These preset hydraulic parameters support either one-way or two-way flow. The joystick sliding switches allow modulated control of the work tool.



- 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.

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, drink/bottle holder, magazine rack and integrated mobile phone holder.

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



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



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

- 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.



New Increased Travel Speed.

The maximum travel speed for the D-Series Wheel Excavators has been increased from 34 km/h (21 mph) to 37 km/h (23 mph), 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 2,000 working hours, further reducing owner and operator costs.



Drive Line Concept. The rear mounted transmission and robust drive line design, delivers excellent ground clearance for all off-road applications.

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 wind screen 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.



Industrial Stick

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

- Short stick (2.2 m/7 ft 3 in) for maximum breakout force and lifting capability.
- Medium stick (2.5 m/8 ft 3 in) for greater crowd force and lift capacity.
- Long stick (2.8 m/9 ft 3 in) for greater depth and reach requirements.
- Industrial stick (3.3 m/10 ft 10 in) for use with free-swinging grapples in material handling and industrial applications.

Design. Booms and sticks are welded, box section structures with thick, multi-plate 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.

Work Tools

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



Work Tools. Caterpillar 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 Caterpillar K Series™ Ground Engaging Tools.

Hammers. Cat hammer series deliver very high blow rates, increasing the productivity of your 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 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 boom-mounted options.

Versatility

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



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.

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 ten-programmed 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.

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.

Serviceability

Simplified and easy maintenance save you time and money.



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.



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 4,000 hours. Engine coolant change intervals are 12,000 hours with Cat Extended Life Coolant.

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

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

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

Swing-out Air Conditioner Condenser. The Air Conditioning condenser swings out horizontally to allow complete cleaning on both sides as well as excellent access to the air-to-air after cooler.

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

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

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



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

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 Caterpillar dealer can give you results and specific recommendations shortly after receiving your sample.

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

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

Fuel Tank Drain. The durable, corrosion-free tank has a remote drain located at the bottom of the upper frame to remove water and sediment. The tank drain with hose connection allows simple, spill-free fluid draining.

Remote Greasing Blocks. For those hard to reach locations, greasing blocks have been provided to reduce maintenance time. One block is located in the engine compartment with two grease points for the swing bearing and front-end attachment. For the undercarriage, two remote blocks provide easy access for greasing the oscillating axle and, as an option, the dozer blade.



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

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



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



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

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 U.S. EPA Tier 3 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 (HEES™) 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 XT™ Hose and hydraulic cylinders are all designed to help prevent fluid leaks that can reduce the machine performance and cause harm to the environment.

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

Complete Customer Support

Cat dealer services help you operate longer with lower costs.

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

Selection. Make detailed comparisons of the machines you are considering before you buy. How long do components last? What is the cost of preventive maintenance? Your Cat dealer can give you precise answers to these questions 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•SSM 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.

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

Engine

Engine Model	Cat® C6.6 ACERT™	
Net Power	124 kW	166 hp
Gross Power	130 kW	174 hp
ISO 9249	124 kW	166 hp
EEC 80/1269	124 kW	166 hp
Bore	105 mm	4.13 in
Stroke	127 mm	5 in
Displacement	6.6 L	403 in ³
Cylinders	6	
Maximum Torque at 1,400 rpm	805 N·m	596 lb ft

- Maximum power at 1,800 rpm

Weights

Operating Weight	18 200 kg (40,124 lb) to 20 100 kg (44,313 lb)	
VA Boom		
Rear dozer only	17 800 kg	39,240 lb
Rear dozer, front outriggers	18 950 kg	41,780 lb
Front and rear outriggers	19 150 kg	42,219 lb
One-Piece Boom		
Rear dozer only	17 250 kg	38,030 lb
Rear dozer, front outriggers	18 400 kg	40,570 lb
Front and rear outriggers	18 600 kg	41,006 lb
Dozer Blade	740 kg	1,700 lb
Outriggers	1030 kg	2,270 lb
Counterweight	4000 kg	8,810 lb
2.2 m (7'3") stick	550 kg	1,213 lb
2.5 m (8'3") stick	580 kg	1,279 lb
2.8 m (9'3") stick	600 kg	1,323 lb
3.3 m (10'10") Industrial stick	520 kg	1,146 lb

Swing Mechanism

Swing Speed	10.5 rpm	
Swing Torque	46 kN·m	33,928 lb ft

Hydraulic System

Maximum Pressure

Implement circuit		
normal	35 000 kPa	5,076 psi
heavy lift	37 500 kPa	5,439 psi
Travel circuit	35 000 kPa	5,076 psi
Auxiliary circuit		
high pressure	35 000 kPa	5,076 psi
medium pressure	18 500 kPa	2,683 psi
Swing mechanism	31 000 kPa	4,496 psi

Maximum flow

Implement/travel circuit	290 L/min	77 gal/min
Auxiliary circuit		
high pressure	250 L/min	55 gal/min
medium pressure	50 L/min	13 gal/min
Swing mechanism	112 L/min	30 gal/min

Transmission

Maximum Travel Speed	37 km/h	23 mph
1st Gear, Forward/Reverse	8 km/h	5 mph
2nd Gear, Forward/Reverse	37 km/h	23 mph
Creeper Speed (1st Gear)	3 km/h	2 mph
Creeper Speed (2nd Gear)	13 km/h	8 mph
Drawbar Pull	99 kN	22,300 lb
Maximum Gradeability	61%	

Service Refill Capacities

Fuel Tank Capacity	385 L	102 gal
Cooling	32 L	8.5 gal
Engine Crankcase	15 L	4 gal
Rear Axle Housing (Differential)	14 L	3.7 gal
Front Steering Axle (Differential)	10.5 L	2.8 gal
Final Drive	2.5 L	0.7 gal
Powershift Transmission	2.5 L	0.7 gal
Hydraulic Tank	170 L	45 gal
Hydraulic System (including tank)	270 L	71 gal

Tires

Standard	MITAS 10.00-20, NB38
Optional	See Optional Equipment

Undercarriage

Ground Clearance	370 mm	15 in
Maximum Steering Angle ±	35°	
Oscillating Axle Angle ±	9°	

Standard Axle

Minimum Turning Radius (Outside of tire)	6.4 m	21 ft
Minimum Turning Radius (End of VA boom)	7 m	23 ft
Minimum Turning Radius (End of One-piece boom)	8.3 m	27 ft

Wide Axle

Minimum Turning Radius (Outside of tire)	6.5 m	21 ft
Minimum Turning Radius (End of VA boom)	7.1 m	23 ft
Minimum Turning Radius (End of One-piece boom)	8.5 m	28 ft

Sound Performance

Performance	Exterior sound power level according to 2000/14/EC is 103 db(A) Interior sound pressure level LpA is 72 db(A)
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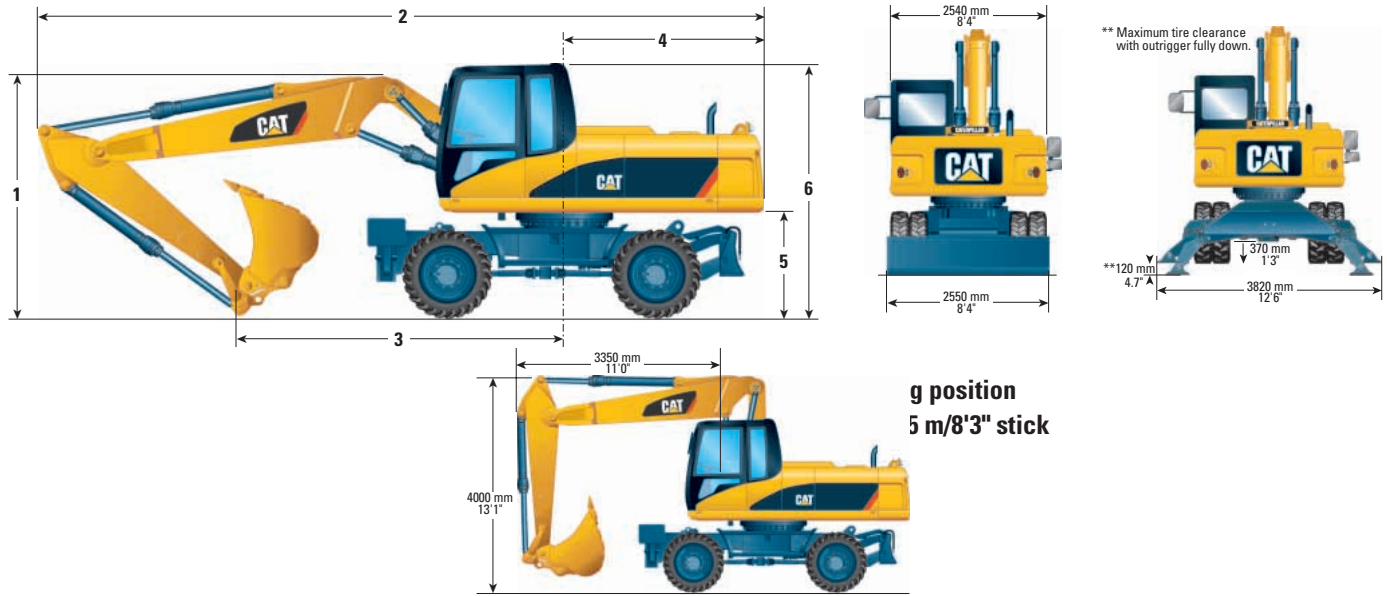
- When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 OCT 98, meets OSHA and MSHA requirements for operator sound exposure limits in effect at time of manufacture.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in a noisy environment.

Standards

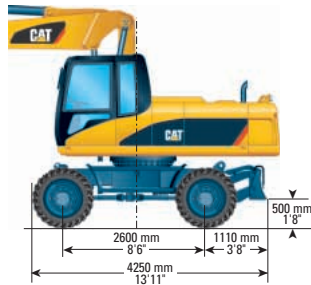
Brakes	SAE J1026 APR 90
Cab/FOGS	ISO 10262

Dimensions

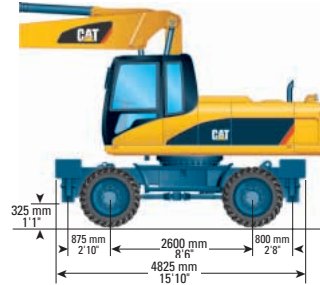
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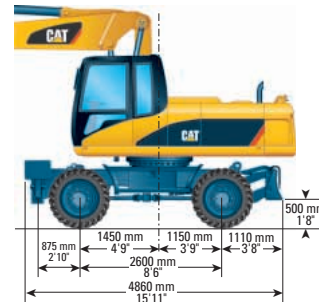
Undercarriage with dozer only



Undercarriage with 2 sets of outriggers



Undercarriage with 1 set of outriggers and dozer



Stick Options

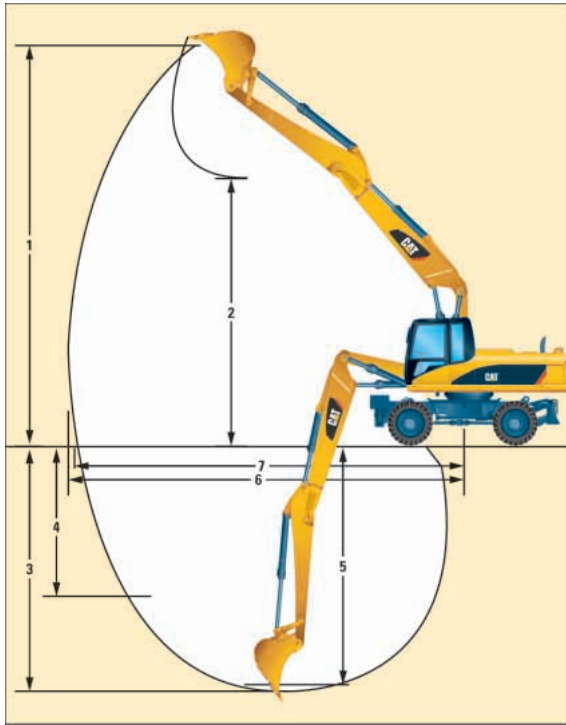
	2.2 m (7'3")		2.5 m (8'3")		2.8 m (9'3")		Industrial Stick 3.3 m (10'10")	
	mm	ft/in	mm	ft/in	mm	ft/in	mm	ft/in
1 Shipping Height								
VA Boom	3170	10'5"	3170	10'5"	3300	10'10"	3330	10'11"
One-piece Boom	3190	10'6"	3210	10'6"	3330	10'11"	3290	10'10"
2 Shipping Length								
VA Boom	8870	29'1"	8850	29'0"	8820	28'11"	8850	29'0"
One-piece Boom	8870	29'1"	8960	29'5"	8950	29'4"	9000	29'6"
3 Support Point								
VA Boom	3920	12'10"	3650	12'0"	3510	11'6"	3270	10'9"
One-piece Boom	3810	12'6"	3490	11'5"	3310	10'10"	3080	10'1"
4 Tail Swing Radius								
VA Boom and One-piece Boom	2500	8'2"	2500	8'2"	2500	8'2"	2500	8'2"
5 Counterweight Clearance								
VA Boom and One-piece Boom	1280	4'2"	1280	4'2"	1280	4'2"	1280	4'2"
6 Cab Height								
VA Boom and One-piece Boom	3170	10'5"	3170	10'5"	3170	10'5"	3170	10'5"

Note: All numbers are approximate

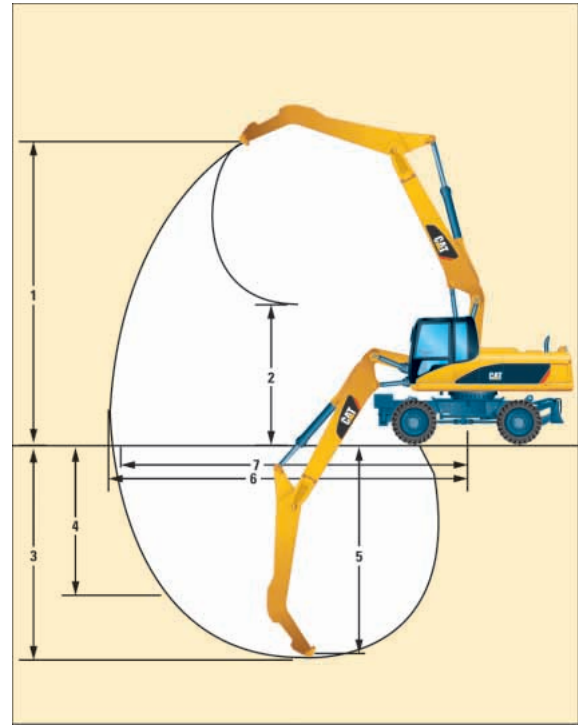
Cab height without Falling Object Guards

VA Boom and One-piece Boom Working Ranges

2.2 m (7'3"), 2.5 m (8'3"), 2.8 m (9'3") Sticks



3.3 m (10'10") Industrial Stick



	VA Boom				One-piece Boom			
	2.2 m (7'3")	2.5 m (8'3")	2.8 m (9'3")	Industrial Stick* 3.3 m (10'10")	2.2 m (7'3")	2.5 m (8'3")	2.8 m (9'3")	Industrial Stick* 3.3 m (10'10")
1 Digging Height	9710 mm (31'11")	10 000 mm (32'10")	10 210 mm (33'6")	8620 mm (28'3")	8760 mm (28'9")	9010 mm (29'7")	9170 mm (30'1")	8620 mm (28'3")
2 Dump Height	6700 mm (22'0")	6970 mm (22'11")	7190 mm (23'7")	3550 mm (12'4")	5900 mm (19'4")	6110 mm (20'1")	6270 mm (20'7")	3140 mm (10'4")
3 Digging Depth	5750 mm (18'11")	6060 mm (19'11")	6360 mm (20'11")	5320 mm (17'6")	5700 mm (18'9")	6000 mm (19'8")	6300 mm (20'7")	5250 mm (17'3")
4 Vertical Wall Digging Depth	3220 mm (10'7")	3680 mm (12'1")	3960 mm (13'0")	N/A	2880 mm (9'5")	3340 mm (11'0")	3620 mm (11'11")	N/A
5 Depth 2.5 m (8'3") Straight Clean-up	5538 mm (18'2")	5865 mm (19'3")	6179 mm (20'4")	N/A	5488 mm (18'0")	5805 mm (19'1")	6119 mm (20'1")	N/A
6 Reach	9160 mm (30'1")	9470 mm (31'1")	9760 mm (32'1")	8490 mm (27'11")	9180 mm (30'2")	9490 mm (31'2")	9770 mm (32'1")	8470 mm (27'10")
7 Reach at Ground Level	8970 mm (29'6")	9300 mm (30'7")	9590 mm (31'6")	8290 mm (27'3")	9000 mm (29'7")	9320 mm (30'7")	9600 mm (31'6")	8270 mm (27'2")
Bucket Forces (ISO 6015)	126 kN (28,326 lbf)	126 kN (28,326 lbf)	126 kN (28,326 lbf)	N/A	126 kN (28,326 lbf)	126 kN (28,326 lbf)	126 kN (28,326 lbf)	N/A
Stick Forces (ISO 6015)	102 kN (22,931 lbf)	91 kN (20,458 lbf)	85 kN (19,109 lbf)	N/A	102 kN (22,931 lbf)	91 kN (20,458 lbf)	85 kN (19,109 lbf)	N/A

* 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 (5'3").

Breakout force values are calculated with heavy lift on (no quick coupler) and a tip radius of 1405 mm (4'7").

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 (17'3")									One-piece boom 5350 mm (17'7")								
		Dozer lowered			2 sets of stabilizer lowered			Dozer and stabilizer lowered			Dozer lowered			2 sets of stabilizer lowered			Dozer and stabilizer lowered		
		2200 7'3"	2500 8'3"	2800 9'3"	2200 7'3"	2500 8'3"	2800 9'3"	2200 7'3"	2500 8'3"	2800 9'3"	2200 7'3"	2500 8'3"	2800 9'3"	2200 7'3"	2500 8'3"	2800 9'3"	2200 7'3"	2500 8'3"	2800 9'3"
Without quick coupler		Stick length (ft/in)																	
Hammers	H115s, H120Cs, H130s																		
Multiprocessor	MP15	CC, CR, PS, S																	
		PP																	
360° Rotation Shear (boom mounted)	S320																		
	S325																		
360° Rotation Shear (stick mounted)	S320																		
Multi-Grapples	G315B – D																		
	G315B – R																		
	G320B D, R																		
Compactors	CVP75																		
Orange Peel Grapples (4 Tines)	GSH-15B	400 L (0.5 yd³)																	
		500 L (0.67 yd³)																	
		600 L (0.75 yd³)																	
	GSH-20B	800 L (1.00 yd³)																	
		600 L (0.75 yd³)																	
		800 L (1.00 yd³)																	
	1000 L (1.25 yd³)																		

	Recommended		Maximum Material Density 3000 kg/m³ (5,000 lb/yd³)
	Working Range only front		Maximum Material Density 1800 kg/m³ (3,000 lb/yd³)
			Maximum Material Density 1200 kg/m³ (2,000 lb/yd³)

Quick couplers

Pin Grabber Plus
Pin Lock
Standard/Tilting
Wedge Lock

- Working range 360°
- Material density = 1800 kg/m³ (3,000 lb/yd³)
- Contact your Caterpillar dealer for work tool availability and specifications.
- All data is subject to change without notice.

Bucket Specifications


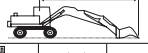












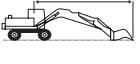
Contact your Caterpillar dealer for special bucket requirements.

Pin-on Buckets

Bucket Type	Width		Weight		Capacity (SAE)		No. of Teeth
	mm	in	kg	lb	m ³	yd ³	
General Purpose	610	24	600	1324	0.57	0.74	3
	762	30	655	1447	0.77	1.01	4
	914	36	738	1630	0.95	1.24	5
	991	39	584	1290	0.74	0.97	4
	1067	42	797	1759	1.17	1.53	5
	1219	48	930	2052	1.39	1.82	6
General Purpose Wide Tip	1372	54	939	2072	1.57	2.05	6
	610	24	631	1393	0.57	0.74	3
	762	30	689	1522	0.77	1.01	4
	914	36	782	1727	0.95	1.24	5
	1067	42	848	1872	1.17	1.53	6
	1219	48	933	2059	1.39	1.82	7
Heavy Duty	1372	54	1007	2223	1.57	2.05	8
	610	24	694	1533	0.54	0.7	3
	762	30	689	1520	0.69	0.9	4
	914	36	790	1743	0.84	1.1	5
	1067	42	848	1872	1.07	1.4	5
	1219	48	943	2082	1.22	1.6	6
Heavy Duty Rock	1372	54	1107	2444	1.38	1.8	6
	610	24	695	1535	0.54	0.7	3
	762	30	778	1718	0.69	0.9	4
	914	36	858	1893	0.84	1.1	5
	1067	42	925	2043	1.07	1.4	5
	1194	47	690	1523	0.93	1.22	5
Heavy Duty Power	1295	51	723	1596	1.03	1.35	5
	914	36	799	1764	0.84	1.1	5
	1067	42	842	1858	0.99	1.3	5
Ditch Cleaning	1219	48	914	2017	1.15	1.5	6
	1524	60	752	1660	0.99	1.3	0
	1829	72	843	1860	1.24	1.62	0
Ditch Cleaning Tilt	2007	79	669	1477	0.70	0.91	0
	1524	60	861	1900	0.86	1.12	0
	1829	72	951	2100	0.96	1.25	0
	2007	79	539	1190	0.57	0.75	0
	2311	91	560	1237	0.62	0.81	0

- All bucket recommendations are subject to material density.
- All data is subject to change without notice.
- Contact your Caterpillar dealer for bucket availability and specifications.





VA Boom – 2.2 m (7'3") stick

Stick 2.2 m (7'3")		Undercarriage configuration	3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)						
													m/ft		
			kg	lb	kg	lb	kg	lb	kg	lb	kg	lb			
	6.0 m (20.0 ft)	Rear dozer up (Load over front)			*6200	5000	5000	3100							
		Rear dozer down (Load over rear)			*13,670	11,020	11,020	6,830							
		Rear stab down (Load over rear)			*6200	5700	*5800	3500							
		2 sets stab down (Load over front)			*13,670	12,570	*12,790	7,720							
		Dozer and stab down (Load over front)			*6200	*6200	*5800	4200							
						*13,670	*13,670	*12,790	9,260						
						*6200	*6200	*5800	*5800						
	4.5 m (15.0 ft)	Rear dozer up (Load over front)			*7200	4800	5000	3100			*3000	1900	7.77 m (25'6")		
		Rear dozer down (Load over rear)			*15,870	10,580	11,020	6,830			*6,610	4,190			
		Rear stab down (Load over rear)			*7200	5500	*6000	3600			*3000	2200			
		2 sets stab down (Load over front)			*15,870	12,130	*13,230	7,940			*6,610	4,850			
		Dozer and stab down (Load over front)			*7200	6600	*6000	4300			*3000	2700			
						*15,870	14,550	*13,230	9,480			*6,610	5,950		
						*7200	*7200	*6000	5900			*3000	*3000		
	3.0 m (10.0 ft)	Rear dozer up (Load over front)			*9500	8500	4700	3100	3300	1900	2900	1700	8.19 m (26'10")		
		Rear dozer down (Load over rear)			*20,940	18,740	16,530	10,360	10,800	6,830	7,280	4,190	6,390	3,750	
		Rear stab down (Load over rear)			*9500	*9500	*8700	5400	*6600	3600	5200	2200	*3000	2000	
		2 sets stab down (Load over front)			*20,940	*20,940	*19,180	11,900	*14,550	7,940	11,460	4,850	*6,610	4,410	
		Dozer and stab down (Load over front)			*9500	*9500	*8700	6400	*6600	4300	4500	2800	*3000	2400	
						*20,940	*20,940	*19,180	14,110	*14,550	9,480	9,920	6,170	*6,610	5,290
						*9500	*9500	*8700	7700	*6600	5800	*5500	4000	*3000	*3000
	1.5 m (5.0 ft)	Rear dozer up (Load over front)			*12,700	8200	7400	4600	4900	3000	1900	2800	1600		
		Rear dozer down (Load over rear)			*28,000	18,080	16,310	10,140	10,800	6,610	7,050	4,190	6,170	3,530	
		Rear stab down (Load over rear)			*12,700	9700	*9900	5300	*7100	3500	5100	2200	*3200	1900	
		2 sets stab down (Load over front)			*28,000	21,380	*21,830	11,680	*15,650	7,720	11,240	4,850	*7,050	4,190	
		Dozer and stab down (Load over front)			*12,700	11,900	*9900	6400	6500	4200	4500	2700	*3200	2300	
						*28,000	26,230	*21,830	14,110	14,330	9,260	9,920	5,950	*7,050	5,070
						*12,700	*12,700	*9900	8900	*7100	5800	*5700	3900	*3200	*3200
	Ground	Rear dozer up (Load over front)			14,500	8000	7500	4400	4700	2800	3100	1800	2800	1600	
		Rear dozer down (Load over rear)			31,970	17,640	16,530	9,700	10,360	6,170	6,830	3,970	6,170	3,730	
		Rear stab down (Load over rear)			*15,000	9500	*10,100	5100	*7300	3300	5000	2100	*3500	1900	
		2 sets stab down (Load over front)			*33,070	20,940	*22,270	11,240	*16,090	7,280	11,020	4,630	*7,720	4,190	
		Dozer and stab down (Load over front)			*15,000	12,100	*10,100	6300	6600	4000	4400	2600	*3500	2400	
						*33,070	26,680	*22,270	13,890	14,550	8,820	9,700	5,730	*7,720	5,290
						*15,000	*15,000	*10,100	8900	*7300	5700	*5500	3900	*3500	*3500
	-1.5 m (-5.0 ft)	Rear dozer up (Load over front)			14,700	7700	7300	4300	4500	2600	3100	1800	2800	1600	
		Rear dozer down (Load over rear)			32,410	16,980	16,090	9,480	9,920	5,730			6,830	3,970	
		Rear stab down (Load over rear)			*16,400	9100	*10,300	4900	7400	3100			*4000	2100	
		2 sets stab down (Load over front)			*36,160	20,060	*22,710	10,800	16,310	6,830			*8,820	4,630	
		Dozer and stab down (Load over front)			*16,400	11,800	*10,300	6100	6400	3800			*4000	2600	
						*36,160	26,010	*22,710	13,450	14,110	8,380			*8,820	5,730
						*16,400	*16,400	*10,300	9100	*7500	5500			*4000	3900
	-3.0 m (-10.0 ft)	Rear dozer up (Load over front)			14,800	7700	7000	4000	4400	2500					
		Rear dozer down (Load over rear)			32,630	16,980	15,430	8,820	9,700	5,510					
		Rear stab down (Load over rear)			*16,900	9200	*10,100	4700	*5200	2900					
		2 sets stab down (Load over front)			*37,260	20,280	*22,270	10,360	*11,460	6,390					
		Dozer and stab down (Load over front)			*16,900	11,800	*10,100	5800	*5200	3600					
						*37,260	26,010	*22,270	12,790	*11,460	7,940				
						*16,900	*16,900	*10,100	8800	*5200	*5200				

- * Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard JISO 10567. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.
- All lift capacities are calculated with Heavy Lift on and 232 kg (511 lb) Quick Coupler.
- Oscillating axle must be locked.
- VA Boom is adjusted to achieve the optimum lifting position at each location of the lifting grid.
- Max Reach values are calculated at the hook of the Quick Coupler.

VA Boom – 2.5 m (8'3") stick


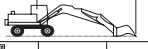













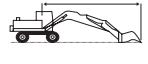
Stick
2.5 m (8'3")

Stick 2.5 m (8'3")	Undercarriage configuration		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		m/ft	
			m/ft		m/ft		m/ft		m/ft		m/ft	
			kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
 Load Point Height  Load Radius Over Front or Rear  Load Radius Over Side  Load at Maximum Reach	6.0 m (20.0 ft)	Rear dozer up (Load over front)	kg				5000	3200				
		Rear dozer down (Load over front)	kg				11,020	7,060				
		Rear dozer down (Load over rear)	kg				*5200	3600				
		Rear stab down (Load over rear)	kg				*11,460	7,940				
		2 sets stab down (Load over front)	kg				*5200	4300				
		2 sets stab down (Load over rear)	kg				*11,460	9,480				
		Dozer and stab down (Load over front)	kg				*5200	5100				
	lb				*11,460	11,240						
4.5 m (15.0 ft)	Rear dozer up (Load over front)	kg			*6600	4900	*5000	3200	3400	2000	*2300	1800
	Rear dozer down (Load over front)	kg			*14,550	10,800	*11,020	7,060	7,500	4,410	*5,070	3,970
	Rear dozer down (Load over rear)	kg			*6600	5600	*5800	3600	*3800	2300	*2300	2100
	Rear stab down (Load over rear)	kg			*14,550	12,350	*12,790	7,940	*8380	5,070	*5,070	4,630
	2 sets stab down (Load over rear)	kg			*6600	*6600	*5800	4300	*3800	2800	*2300	*2300
	2 sets stab down (Load over front)	kg			*14,550	*14,550	*12,790	9,480	*8380	6,170	*5,070	*5,070
	Dozer and stab down (Load over front)	kg			*6600	*6600	*5800	*5800	*3800	*3800	*2300	*2300
	lb			*14,550	*14,550	*12,790	*12,790	*8380	*8380	3500	*2300	*2300
	lb			*14,550	*14,550	*12,790	11,240	*8,380	7,720	*5,070	*5,070	
3.0 m (10.0 ft)	Rear dozer up (Load over front)	kg	*10 000	8500	7600	4700	4900	3100	3400	2000	*2300	1600
	Rear dozer down (Load over front)	kg	*22,050	18,740	16,760	10,360	10,800	6,830	7,500	4,410	*5,070	3,530
	Rear dozer down (Load over rear)	kg	*10 000	*10 000	*8400	5400	*6500	3600	5200	2300	*2300	1900
	Rear stab down (Load over rear)	kg	*22,050	*22,050	*18,520	11,900	*14,330	7,940	11,460	5,070	*5,070	4,190
	2 sets stab down (Load over rear)	kg	*10 000	*10 000	*8400	6500	*6500	4300	4600	2800	*2300	*2300
	2 sets stab down (Load over front)	kg	*22,050	*22,050	*18,520	14,330	*14,330	9,480	10,140	6,170	*5,070	*5,070
	Dozer and stab down (Load over front)	kg	*10 000	*10 000	*8400	7700	*6500	5100	*5500	3500	*2300	*2300
	lb	*22,050	*22,050	*18,520	16,980	*14,330	11,240	*12,130	7,720	*5,070	*5,070	
1.5 m (5.0 ft)	Rear dozer up (Load over front)	kg	*12 600	8300	7400	4600	4900	3100	3300	2000	*2400	1500
	Rear dozer down (Load over front)	kg	*27,780	18,300	16,310	10,140	10,800	6,830	7,280	4,410	*5,290	3,310
	Rear dozer down (Load over rear)	kg	*12 600	9700	*9700	5300	*7100	3500	5200	2300	*2400	1800
	Rear stab down (Load over rear)	kg	*27,780	21,390	*21,390	11,680	*15,650	7,720	11,460	5,070	*5,290	3,970
	2 sets stab down (Load over rear)	kg	*12 600	12 000	*9700	6400	6500	4300	4500	2800	*2400	2200
	2 sets stab down (Load over front)	kg	*27,780	26,460	*21,390	14,110	14,330	9,480	9,920	6,170	*5,290	4,850
	Dozer and stab down (Load over front)	kg	*12 600	*12 600	*9700	8900	*7100	5800	*5700	4000	*2400	*2400
	lb	*27,780	*27,780	*21,390	19,620	*15,650	12,790	*12,570	8,820	*5,290	*5,290	
	lb	*27,780	*27,780	*21,390	16,760	*15,650	11,020	*12,570	7,500	*5,290	*5,290	
Ground	Rear dozer up (Load over front)	kg	14 500	8100	7500	4500	4800	2900	3200	1900	*2700	1500
	Rear dozer down (Load over front)	kg	31,970	17,860	16,530	9,920	10,580	6,390	7,050	4,190	*5,950	3,310
	Rear dozer down (Load over rear)	kg	*32,190	9600	*10 100	5200	*7300	3400	5100	2200	*2700	1800
	Rear stab down (Load over rear)	kg	*32,190	21,160	*22,270	11,460	*16,090	7,500	11,240	4,850	*5,950	3,970
	2 sets stab down (Load over rear)	kg	*14 600	12 100	*10 100	6400	6600	4100	4400	2700	*2700	2200
	2 sets stab down (Load over front)	kg	*32,190	26,680	*22,270	14,110	14,550	9,040	9,700	5,950	*5,950	4,850
	Dozer and stab down (Load over front)	kg	*14 600	*14 600	*10 100	7600	*7300	4900	*5700	3300	*2700	*2700
	lb	*32,190	*32,190	*22,270	16,760	*16,090	10,800	*12,570	7,280	*5,950	*5,950	
-1.5 m (-5.0 ft)	Rear dozer up (Load over front)	kg	14 800	7800	7300	4300	4600	2700			2900	1700
	Rear dozer down (Load over front)	kg	32,630	17,800	16,090	9,480	10,140	5,950			6,390	3,750
	Rear dozer down (Load over rear)	kg	*16 400	9200	*10 200	5000	*7400	3100			*3000	2000
	Rear stab down (Load over rear)	kg	*36,160	20,280	*22,490	11,020	*16,310	6,830			*6,610	4,410
	2 sets stab down (Load over rear)	kg	*16 400	11 900	*10 200	6100	6400	3800			*3000	2500
	2 sets stab down (Load over front)	kg	*36,160	26,240	*22,490	13,450	14,110	8,380			*6,610	5,510
	Dozer and stab down (Load over front)	kg	*16 400	15 100	*10 200	7500	*7400	4700			*3000	*3000
	lb	*36,160	33,290	*22,490	16,540	*16,310	10,360			*6,610	*6,610	
-3.0 m (-10.0 ft)	Rear dozer up (Load over front)	kg	14 700	7700	7100	4100	4400	2600				
	Rear dozer down (Load over front)	kg	32,410	16,980	15,650	9,040	9,700	5,730				
	Rear dozer down (Load over rear)	kg	*16 900	9200	*10 500	4800	*6300	3000				
	Rear stab down (Load over rear)	kg	*37,260	20,280	*23,150	10,580	*13,890	6,610				
	2 sets stab down (Load over rear)	kg	*16 900	11 800	*10 500	5900	*6300	3700				
	2 sets stab down (Load over front)	kg	*37,260	26,010	*23,150	13,010	*13,890	8,160				
	Dozer and stab down (Load over front)	kg	*16 900	15 100	*10 500	7300	*6300	4500				
	lb	*37,260	33,290	*23,150	16,090	*13,890	9,920					
-4.5 m (-15.0 ft)	Rear dozer up (Load over front)	kg	*12 500	7600								
	Rear dozer down (Load over front)	kg	*27,560	16,760								
	Rear dozer down (Load over rear)	kg	*12 500	9000								
	Rear stab down (Load over rear)	kg	*27,560	19,840								
	2 sets stab down (Load over rear)	kg	*12 500	11 600								
	2 sets stab down (Load over front)	kg	*27,560	25,570								
	Dozer and stab down (Load over front)	kg	*12 500	*12 500								
	lb	*27,560	*27,560									
	lb	*27,560	*27,560									

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard JISO 10567. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.

- All lift capacities are calculated with Heavy Lift on and 232 kg (511 lb) Quick Coupler.
- Oscillating axle must be locked.
- VA Boom is adjusted to achieve the optimum lifting position at each location of the lifting grid.
- Max Reach values are calculated at the hook of the Quick Coupler.

VA Boom – 2.8 m (9'3") stick

Stick 2.8 m (9'3")		Undercarriage configuration		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)						
														m/ft		
 Load Point Height  Load Radius Over Front or Rear  Load Radius Over Side  Load at Maximum Reach	6.0 m (20.0 ft)	Rear dozer up (Load over front)	kg						*4800	3200						
		Rear dozer down (Load over rear)	kg						*4800	3700						
		Rear stab down (Load over rear)	kg							*10,580	8,160					
		2 sets stab down (Load over front)	kg							*4800	4400					
		Dozer and stab down (Load over front)	kg							*10,580	9,700					
			lb							*10,580	*4800					
			lb							*10,580	*10,580					
4.5 m (15.0 ft)	Rear dozer up (Load over front)	kg			*5600	4900	5000	3200	3400	2100	*2100	1700	8.41 m (27'7")			
	Rear dozer down (Load over rear)	kg			*12,350	10,800	11,020	7,060	7,500	4,630	*4,630	3,750				
	Rear stab down (Load over rear)	kg			*5600	*5600	*5500	3600	*4200	2400	*2100	1900				
	2 sets stab down (Load over front)	kg			*12,350	*12,350	*12,130	7,940	*9,260	5,290	*4,630	4,190				
	Dozer and stab down (Load over front)	kg			*5600	*5600	*5500	4300	*4200	2900	*2100	*2100				
		lb			*12,350	*12,350	*12,130	9,480	*9,260	6,390	*4,630	*4,630		*4,630		
		lb			*12,350	*12,350	*12,130	*12,130	*9,260	9,040	*4,630	*4,630		*4,630		
3.0 m (10.0 ft)	Rear dozer up (Load over front)	kg		*9800	8600	7600	4900	3100	3400	2100	*2100	1500	8.8 m (28'10")			
	Rear dozer down (Load over rear)	kg		*21,610	18,960	16,760	10,360	10,800	6,830	7,500	4,630	*4,630		3,310		
	Rear stab down (Load over rear)	kg		*9800	*9800	*8000	5400	*6200	3600	5200	2400	*2100		1700		
	2 sets stab down (Load over front)	kg		*21,610	*21,610	*17,640	11,910	*13,670	7,940	11,460	5,290	*4,630		3,750		
	Dozer and stab down (Load over front)	kg		*9800	*9800	*8000	6500	*6200	4300	4600	2900	*2100		*2100		
		lb		*21,610	*21,610	*17,640	14,330	*13,670	9,480	10,140	6,390	*4,630		*4,630		
		lb		*21,610	*21,610	*17,640	*17,640	*13,670	13,010	*11,690	9,040	*4,630		*4,630		
1.5 m (5.0 ft)	Rear dozer up (Load over front)	kg		*12,600	8300	7400	4600	3100	3300	2000	*2200	1400	8.89 m (29'1")			
	Rear dozer down (Load over rear)	kg		*27,780	18,300	16,310	10,140	10,800	6,830	7,280	4,410	*4,850		3,090		
	Rear stab down (Load over rear)	kg		*12,600	9700	*9500	5300	*6900	3500	5200	2300	*2200		1700		
	2 sets stab down (Load over front)	kg		*27,780	21,390	*20,940	11,690	*15,210	7,720	11,460	5,070	*4,850		3,750		
	Dozer and stab down (Load over front)	kg		*12,600	12,000	*9500	6300	6500	4200	4600	2800	*2200		2100		
		lb		*27,780	26,460	*20,940	13,890	4,330	9,260	10,140	6,170	*4,850		4,630		
		lb		*27,780	*27,780	*20,940	19,620	*15,210	12,790	*12,350	8,820	*4,850		*4,850		
Ground	Rear dozer up (Load over front)	kg		*14,100	8200	7400	4500	4900	3000	3200	1900	*2300	1400	8.69 m (26'6")		
	Rear dozer down (Load over rear)	kg		*31,090	18,080	16,310	9,920	10,800	6,610	7,060	4,190	*5,070	3,090			
	Rear stab down (Load over rear)	kg		*14,100	9700	*10,100	5200	7200	3400	5100	2200	*2300	1700			
	2 sets stab down (Load over front)	kg		*31,090	21,390	*22,270	11,460	15,870	7,500	11,240	4,850	*5,070	3,750			
	Dozer and stab down (Load over front)	kg		*14,100	12,000	*10,100	6400	6500	4100	4500	2700	*2300	2100			
		lb		*31,090	26,455	*22,270	14,110	14,330	9,040	9,920	5,950	*5,070	4,630			
		lb		*31,090	*31,090	*22,270	19,620	*16,090	12,790	*12,570	8,600	*5,070	*5,070			
-1.5 m (-5.0 ft)	Rear dozer up (Load over front)	kg		14,600	7800	7300	4300	4600	2800	3100	1800	*2700	1600	8.17 m (26'9")		
	Rear dozer down (Load over rear)	kg		32,190	17,200	16,090	9,480	10,140	6,170	6,830	3,970	*5,950	3,530			
	Rear stab down (Load over rear)	kg		*16,200	9200	*10,200	5000	7300	3200	5000	2100	*2700	1800			
	2 sets stab down (Load over front)	kg		*35,720	20,280	*22,490	11,020	16,090	7,060	11,020	4,630	*5,950	3,970			
	Dozer and stab down (Load over front)	kg		*16,200	11,900	*10,200	6100	6500	3900	4400	2600	*2700	2300			
		lb		*35,720	26,240	*22,490	13,450	14,330	8,600	9,700	5,730	*5,950	5,070			
		lb		*35,720	*35,720	*22,490	19,840	*16,310	12,350	*11,460	8,380	*5,950	*5,950			
-3.0 m (-10.0 ft)	Rear dozer up (Load over front)	kg		14,700	7700	7200	4200	4400	2600							
	Rear dozer down (Load over rear)	kg		32,410	16,980	15,870	9,260	9,700	5,730							
	Rear stab down (Load over rear)	kg		*16,600	9100	*10,500	4800	*6900	3000							
	2 sets stab down (Load over front)	kg		*36,600	20,060	*23,150	10,580	*15,210	6,610							
	Dozer and stab down (Load over front)	kg		*16,600	11,700	*10,500	6000	6300	3700							
		lb		*36,600	25,790	*23,150	13,230	13,890	8,160							
		lb		*36,600	*36,600	*23,150	19,840	*15,210	12,130							
-4.5 m (-15.0 ft)	Rear dozer up (Load over front)	kg		*14,400	7600	7000	4000									
	Rear dozer down (Load over rear)	kg		*31,750	16,760	15,430	8,820									
	Rear stab down (Load over rear)	kg		*14,400	9000	*7400	4600									
	2 sets stab down (Load over front)	kg		*31,750	19,840	*16,310	10,140									
	Dozer and stab down (Load over front)	kg		*14,400	11,600	*7400	5800									
		lb		*31,750	25,570	*16,310	12,790									
		lb		*31,750	*31,750	*16,310	*16,310									

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard JISO 10567. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.

- All lift capacities are calculated with Heavy Lift on and 232 kg (511 lb) Quick Coupler.
- Oscillating axle must be locked.
- VA Boom is adjusted to achieve the optimum lifting position at each location of the lifting grid.
- Max Reach values are calculated at the hook of the Quick Coupler.

One-piece Boom – 2.2 m (7'3") stick

Stick
2.2 m (7'3")



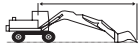
Load Point Height



Load Radius Over Front or Rear



Load Radius Over Side




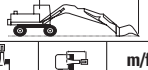













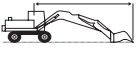
Load at Maximum Reach

Stick 2.2 m (7'3")	Undercarriage configuration	3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		m/ft	
		Front	Rear	Front	Rear	Front	Rear	Front	Rear	Front	Rear
6.0 m (20.0 ft)	Rear dozer up (Load over front)	kg				4900	3000				
	Rear dozer down (Load over rear)	kg				*5600	3500				
	Rear stab down (Load over rear)	kg				*12,350	7,720				
	2 sets stab down (Load over front)	kg				*5600	4200				
	Dozer and stab down (Load over front)	kg				*12,350	9,260				
	Dozer and stab down (Load over front)	lb				*12,350	*5600	*12,350	5000		
4.5 m (15.0 ft)	Rear dozer up (Load over front)	kg			*7000	4700	4800	3000			
	Rear dozer down (Load over rear)	kg			*15,430	10,360	10,580	6,610			
	Rear stab down (Load over rear)	kg			*7000	5300	*5900	3400			
	2 sets stab down (Load over front)	kg			*15,430	11,680	*13,010	7,500			
	Dozer and stab down (Load over front)	kg			*7000	6500	*5900	4100			
	Dozer and stab down (Load over front)	lb			*15,430	14,330	*13,010	9,040			7.79 m (25'6")
3.0 m (10.0 ft)	Rear dozer up (Load over front)	kg			7200	4300	4600	2800	3300	1900	2900
	Rear dozer down (Load over rear)	kg			15,870	9,480	10,140	6,170	7,280	4,190	6,390
	Rear stab down (Load over rear)	kg			*8600	4900	*6600	3200	5100	2200	*3200
	2 sets stab down (Load over front)	kg			*18,960	10,800	*14,550	7,050	11,240	4,850	*7,050
	Dozer and stab down (Load over front)	kg			*8600	6100	6500	3900	4500	2700	*3200
	Dozer and stab down (Load over front)	lb			*18,960	13,450	14,330	8,600	9,920	5,950	*7,050
1.5 m (5.0 ft)	Rear dozer up (Load over front)	kg			6800	3900	4400	2600	3200	1900	2700
	Rear dozer down (Load over rear)	kg			14,990	8,600	9,700	5,730	7,050	4,190	5,950
	Rear stab down (Load over rear)	kg			*9900	4500	*7200	3000	5000	2200	*3400
	2 sets stab down (Load over front)	kg			*21,830	9,920	*15,870	6,610	11,020	4,850	*7,500
	Dozer and stab down (Load over front)	kg			*9900	5600	6300	3700	4400	2700	*3400
	Dozer and stab down (Load over front)	lb			*21,830	12,350	13,890	6,610	9,700	5,950	*7,500
Ground	Rear dozer up (Load over front)	kg			6600	3700	4300	2500	3100	1800	2800
	Rear dozer down (Load over rear)	kg			14,550	8,160	9,480	5,510	6,830	3,970	6,170
	Rear stab down (Load over rear)	kg			*10 200	4300	7100	2900	5000	2100	*3800
	2 sets stab down (Load over front)	kg			*22,490	9,480	15,650	6,390	11,020	4,630	*8,380
	Dozer and stab down (Load over front)	kg			9900	5400	6100	3600	4300	2600	*3800
	Dozer and stab down (Load over front)	lb			21,830	11,900	13,450	7,940	9,480	5,730	*8,380
-1.5 m (-5.0 ft)	Rear dozer up (Load over front)	kg			*9200	6800	3700	4300	2500		3100
	Rear dozer down (Load over rear)	kg			*20,280	14,990	14,330	8,160	9,480		6,830
	Rear stab down (Load over rear)	kg			*9200	8100	*9600	4300	*7000		2900
	2 sets stab down (Load over front)	kg			*20,280	17,860	*21,160	9,480	*15,430		6,390
	Dozer and stab down (Load over front)	kg			*9200	*9200	*9600	5400	6100		3600
	Dozer and stab down (Load over front)	lb			*20,280	*20,280	*21,160	11,900	13,450		7,940
-3.0 m (-10.0 ft)	Rear dozer up (Load over front)	kg			*10 700	6900	6600	3700	4300		2500
	Rear dozer down (Load over rear)	kg			*23,590	15,210	14,550	6,610	9,480		5,510
	Rear stab down (Load over rear)	kg			*10 700	8300	*8000	4400	*5600		2900
	2 sets stab down (Load over front)	kg			*23,590	18,300	*17,640	9,700	*12,350		6,390
	Dozer and stab down (Load over front)	kg			*10 700	*10 700	*8000	5500	*5600		3600
	Dozer and stab down (Load over front)	lb			*23,590	*23,590	*17,640	12,130	*12,350		7,940
-3.0 m (-10.0 ft)	Rear dozer up (Load over front)	kg			*10 700	*10 700	*8000	*8000	*5600		5300
	Rear dozer down (Load over rear)	kg			*23,590	*23,590	*17,640	*17,640	*12,350		11,680
	Rear stab down (Load over rear)	kg			*10 700	*10 700	*8000	6800	*5600		4500
	2 sets stab down (Load over front)	kg			*23,590	*23,590	*17,640	*17,640	*12,350		11,680
	Dozer and stab down (Load over front)	kg			*10 700	*10 700	*8000	6800	*5600		4500
	Dozer and stab down (Load over front)	lb			*23,590	*23,590	*17,640	14,990	*12,350		9,920

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard JISO 10567. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.

- All lift capacities are calculated with Heavy Lift on and 232 kg (511 lb) Quick Coupler.
- Oscillating axle must be locked.
- Max Reach values are calculated at the hook of the Quick Coupler.

One-piece Boom – 2.5 m (8'3") stick

Stick 2.5 m (8'3")		Undercarriage configuration	3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)					
													m/ft	
 Load Point Height  Load Radius Over Front or Rear  Load Radius Over Side  Load at Maximum Reach	6.0 m (20.0 ft)	Rear dozer up (Load over front)	kg					5000	3100					
		lb					11,020	6,830						
		Rear dozer down (Load over rear)	kg					*5200	3500					
		lb						*11,460	7,720					
		Rear stab down (Load over rear)	kg					*5200	4200					
		lb						*11,460	9,260					
	4.5 m (15.0 ft)	2 sets stab down (Load over front)	kg					*5200	*5200					
		lb						*11,460	*11,460					
		Dozer and stab down (Load over front)	kg					*5200	5100					
		lb						*11,460	11,240					
		Rear dozer up (Load over front)	kg					4900	3000	3400	2000	*2500	1800	8.13 m (26'8")
		lb					10,800	6,610	7,500	4,410	*5,510	3,970		
Rear dozer down (Load over rear)	kg					*5700	3400	*4000	2300	*2500	2100			
lb						*12,570	7,500	*8,820	5,070	*5,510	4,630			
Rear stab down (Load over rear)	kg					*5700	4100	*4000	2800	*2500	*2500			
lb						*12,570	9,040	*8,820	6,170	*5,510	*5,510			
3.0 m (10.0 ft)	2 sets stab down (Load over front)	kg					*5700	*5700	*4000	*4000	*2500	*2500	8.53 m (27'11")	
	lb						*12,570	*12,570	*8,820	*8,820	*5,510	*5,510		
	Dozer and stab down (Load over front)	kg					*5700	5000	*4000	3500	*2500	*2500		
	lb						*12,570	11,020	*8,820	7,720	*5,510	*5,510		
	Rear dozer up (Load over front)	kg					7300	4400	2800	2000	*2500	1600		
	lb						16,090	9,700	10,360	6,170	7,280	4,410		
1.5 m (5.0 ft)	Rear dozer down (Load over rear)	kg					*8300	5000	*6400	3300	5200	2300	1900	
	lb						*18,300	11,020	*14,110	7,280	11,460	5,070	*5,510	
	Rear stab down (Load over rear)	kg					*8300	6200	*6400	4000	4500	2800	2300	
	lb						*18,300	13,670	*14,110	8,820	9,920	6,170	*5,510	
	2 sets stab down (Load over front)	kg					*8300	*8300	*6400	5700	*5400	4000	*2500	
	lb						*18,300	*18,300	*14,110	12,570	*11,900	8,820	*5,510	
Ground	Dozer and stab down (Load over front)	kg					*8300	7500	*6400	4800	*5400	3400	*2500	
	lb						*18,300	16,530	*14,110	10,580	*11,900	7,500	*5,510	
	Rear dozer up (Load over front)	kg					6900	4000	4500	2700	1900	2600	1500	
	lb						15,210	8,820	9,920	5,950	7,050	4,190	5,730	
	Rear dozer down (Load over rear)	kg					*9700	4600	*7100	3100	5100	2200	*2700	
	lb						*21,380	10,140	*15,650	6,830	11,240	4,850	*5,950	
-1.5 m (-5.0 ft)	Rear stab down (Load over rear)	kg					*9700	5700	6300	3800	4400	2700	2200	
	lb						*21,380	12,570	13,890	8,380	9,700	5,950	*5,950	
	2 sets stab down (Load over front)	kg					*9700	8600	*7100	5500	*5700	3900	*2700	
	lb						*21,380	18,960	*15,650	12,130	*12,570	8,600	*5,950	
	Dozer and stab down (Load over front)	kg					*9700	7100	*7100	4600	*5700	3300	*2700	
	lb						*21,380	15,650	*15,650	10,140	*12,570	7,280	*5,950	
-3.0 m (-10.0 ft)	Rear dozer up (Load over front)	kg					6700	3800	4300	2500	3100	1800	2700	
	lb						14,770	8,380	9,480	5,510	6,830	3,970	5,730	
	Rear dozer down (Load over rear)	kg					*10 200	4400	7100	2900	5000	2100	*2900	
	lb						*22,490	9,700	15,650	6,390	11,020	4,630	*6,390	
	Rear stab down (Load over rear)	kg					10 000	5500	6200	3600	4400	2600	*2900	
	lb						22,050	12,130	13,670	7,940	9,700	5,730	*6,390	
-4.5 m (-15.0 ft)	2 sets stab down (Load over front)	kg					*10 200	8400	*7400	5400	*5700	3800	*2900	
	lb						*22,490	18,520	*16,310	11,900	*12,570	8,380	*6,390	
	Dozer and stab down (Load over front)	kg					*10 200	6900	*7400	4500	*5700	3200	*2900	
	lb						*22,490	15,210	*16,310	9,920	*12,570	7,050	*6,390	
	Rear dozer up (Load over front)	kg					*8600	6800	4300	2500	2900	1700	3400	
	lb						*18,960	14,990	9,480	5,510	6,390	3,750	5,510	
-5.0 m (-16.4 ft)	Rear dozer down (Load over rear)	kg					*8600	8100	*9800	4300	7100	2900	*3400	
	lb						*18,960	17,860	*21,610	9,480	15,650	6,390	*7,500	
	Rear stab down (Load over rear)	kg					*8600	*8600	*9800	5400	6100	3600	*3400	
	lb						*18,960	*18,960	*21,610	11,900	13,450	7,940	*7,500	
	2 sets stab down (Load over front)	kg					*8600	*8600	*9800	8300	*7200	5300	*3400	
	lb						*18,960	*18,960	*21,610	18,300	*15,870	11,680	*7,500	
-6.0 m (-19.7 ft)	Dozer and stab down (Load over front)	kg					*8600	*8600	*9800	6800	*7200	4400	*3400	
	lb						*18,960	*18,960	*21,610	14,990	*15,870	9,700	*6,610	
	Rear dozer up (Load over front)	kg					*11 600	6900	6600	3700	4300	2500	2900	
	lb						*25,570	15,210	14,550	8,160	9,480	5,510	6,390	
	Rear dozer down (Load over rear)	kg					*11 600	8300	*8400	4400	*6100	2900	2900	
	lb						*25,570	18,300	*18,520	9,700	13,450	6,390	6,390	
-7.0 m (-22.9 ft)	Rear stab down (Load over rear)	kg					*11 600	10 800	*8400	5500	*6100	3600	3600	
	lb						*25,570	23,810	*18,520	12,130	*13,450	7,940	7,940	
	2 sets stab down (Load over front)	kg					*11 600	*11 600	*8400	8300	*6100	5300	5300	
	lb						*25,570	*25,570	*18,520	18,300	*13,450	11,680	11,680	
	Dozer and stab down (Load over front)	kg					*11 600	*11 600	*8400	6800	*6100	4400	4400	
	lb						*25,570	*25,570	*18,520	14,990	*13,450	9,700	9,700	
-8.0 m (-26.2 ft)	Rear dozer up (Load over front)	kg					*5400	3900						
	lb						*11,900	8,600						
	Rear dozer down (Load over rear)	kg					*5400	4600						
	lb						*11,900	10,140						
	Rear stab down (Load over rear)	kg					*5400	*5400						
	lb						*11,900	*11,900						
-9.0 m (-29.5 ft)	2 sets stab down (Load over front)	kg					*5400	*5400						
	lb						*11,900	*11,900						
	Dozer and stab down (Load over front)	kg					*5400	*5400						
	lb						*11,900	*11,900						
	Dozer and stab down (Load over front)	kg					*5400	*5400						
	lb						*11,900	*11,900						

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard JISO 10567. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.

• All lift capacities are calculated with Heavy Lift on and 232 kg (511 lb) Quick Coupler.

• Oscillating axle must be locked.

• Max Reach values are calculated at the hook of the Quick Coupler.

One-piece Boom – 2.8 m (9'3") stick

Stick
2.8 m (9'3")



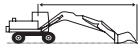
Load Point Height



Load Radius Over Front or Rear



Load Radius Over Side



Load at Maximum Reach

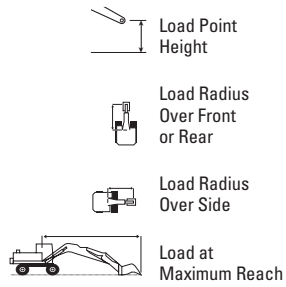
Stick 2.8 m (9'3")	Undercarriage configuration	3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		m/ft	
		Front	Rear	Front	Rear	Front	Rear	Front	Rear	Front	Rear
6.0 m (20.0 ft)	Rear dozer up (Load over front)	kg				*4800	3100				
	Rear dozer down (Load over rear)	kg				*10,580	6,830				
	Rear stab down (Load over rear)	kg				*4800	3600				
	2 sets stab down (Load over front)	kg				*10,580	7,940				
	Dozer and stab down (Load over front)	kg				*4800	4300				
	Dozer and stab down (Load over front)	kg				*10,580	*10,580				
4.5 m (15.0 ft)	Rear dozer up (Load over front)	kg				4900	3000	3400	2100	*2200	1700
	Rear dozer down (Load over rear)	kg				10,800	6,610	7,500	4,630	*4,850	3,750
	Rear stab down (Load over rear)	kg				*5400	3500	*4200	2400	*2200	2000
	2 sets stab down (Load over front)	kg				*11,900	7,720	*9,260	5,290	*4,850	4,410
	Dozer and stab down (Load over front)	kg				*5400	4200	*4200	2900	*2200	*2200
	Dozer and stab down (Load over front)	kg				*11,900	*11,900	*9,260	6,390	*4,850	*4,850
3.0 m (10.0 ft)	Rear dozer up (Load over front)	kg			7400	4400	4700	2900	2000	*2200	1500
	Rear dozer down (Load over rear)	kg			16,310	9,700	10,360	6,390	7,280	4,410	*4,850
	Rear stab down (Load over rear)	kg			*7900	5100	*6200	3300	5200	2300	*2200
	2 sets stab down (Load over front)	kg			*17,420	11,240	*13,670	7,280	11,460	5,070	*4,850
	Dozer and stab down (Load over front)	kg			*7900	6200	*6200	4000	4500	2800	*2200
	Dozer and stab down (Load over front)	kg			*17,420	*17,420	*13,670	12,570	*11,680	8,820	*4,850
1.5 m (5.0 ft)	Rear dozer up (Load over front)	kg			6900	4000	4500	2700	3200	1900	*2400
	Rear dozer down (Load over rear)	kg			15,210	8,820	9,920	5,950	7,050	4,190	*5,290
	Rear stab down (Load over rear)	kg			*9500	4700	*6900	3100	5100	2200	*2400
	2 sets stab down (Load over front)	kg			*20,940	10,360	*15,210	6,830	11,240	4,850	*5,290
	Dozer and stab down (Load over front)	kg			*9500	5800	*6300	3800	4400	2700	*2400
	Dozer and stab down (Load over front)	kg			*20,940	*20,940	*15,210	12,130	*12,350	8,600	*5,290
Ground	Rear dozer up (Load over front)	kg	*5000	*5000	6600	3800	4300	2500	3100	1800	2500
	Rear dozer down (Load over rear)	kg	*11,020	*11,020	14,550	8,380	9,480	5,510	6,830	3,970	5,510
	Rear stab down (Load over rear)	kg	*5000	*5000	10,200	4400	7100	2900	5000	2100	*2600
	2 sets stab down (Load over front)	kg	*11,020	*11,020	*22,490	9,700	15,650	6,390	11,020	4,630	*5,730
	Dozer and stab down (Load over front)	kg	*5000	*5000	10,000	5500	6200	3600	4300	2600	*2600
	Dozer and stab down (Load over front)	kg	*11,020	*11,020	*22,490	18,520	*16,090	11,680	*12,570	8,380	*5,730
-1.5 m (-5.0 ft)	Rear dozer up (Load over front)	kg	*8300	6700	6500	3700	4200	2400	3100	1800	2700
	Rear dozer down (Load over rear)	kg	*18,300	14,770	14,330	8,160	9,260	5,290	6,830	3,970	5,950
	Rear stab down (Load over rear)	kg	*8300	8100	*9900	4300	7000	2900	4900	2100	*3000
	2 sets stab down (Load over front)	kg	*18,300	17,860	*21,830	9,480	15,430	6,390	10,800	4,630	*6,610
	Dozer and stab down (Load over front)	kg	*8300	*8300	*9900	5400	6100	3500	4300	2600	*3000
	Dozer and stab down (Load over front)	kg	*18,300	*18,300	*21,830	18,300	*15,870	11,680	*11,900	8,380	*6,610
-3.0 m (-10.0 ft)	Rear dozer up (Load over front)	kg	*12,400	6800	6600	3700	4300	2500			
	Rear dozer down (Load over rear)	kg	*27,340	14,990	14,550	8,160	9,480	5,510			
	Rear stab down (Load over rear)	kg	*12,400	8200	*8800	4300	*6400	2900			
	2 sets stab down (Load over front)	kg	*27,340	18,080	*19,400	9,480	*14,110	6,390			
	Dozer and stab down (Load over front)	kg	*12,400	10,700	*8800	5400	6100	3600			
	Dozer and stab down (Load over front)	kg	*27,340	*27,340	*19,400	18,298	*14,110	11,680			
-4.5 m (-15.0 ft)	Rear dozer up (Load over front)	kg	*8600	7100	*6200	3800					
	Rear dozer down (Load over rear)	kg	*18,960	15,650	*13,670	8,380					
	Rear stab down (Load over rear)	kg	*8600	8500	*6200	4500					
	2 sets stab down (Load over front)	kg	*18,960	18,740	*13,670	9,920					
	Dozer and stab down (Load over front)	kg	*8600	*8600	*6200	5600					
	Dozer and stab down (Load over front)	kg	*18,960	*18,960	*13,670	12,350					

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard JISO 10567. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.

- All lift capacities are calculated with Heavy Lift on and 232 kg (511 lb) Quick Coupler.
- Oscillating axle must be locked.
- Max Reach values are calculated at the hook of the Quick Coupler.

One-piece Boom Industrial Stick – 3.3 m (10'10") stick

Industrial Stick 3.3 m (10'10")



Undercarriage configuration	3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		m/ft			
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb		
4.5 m (15.0 ft)	Rear dozer up (Load over front)	kg					5300	3500	3800	2500	*3200	2200
	Rear dozer down (Load over rear)	kg					11,690	7,720	8,380	5,510	*7,060	4,850
	Rear stab down (Load over rear)	kg					*5700	3900	*4500	2800	*3200	2500
	2 sets stab down (Load over front)	kg					*12,570	8,600	*9,920	6,170	*7,060	5,510
	Dozer and stab down (Load over front)	kg					*5700	4600	*4500	3300	*3200	3000
		kg					*12,570	10,140	*9,920	7,280	*7,060	6,610
		kg					*5700	*5700	*4500	*4500	*3200	*3200
3.0 m (10.0 ft)	Rear dozer up (Load over front)	kg			7900	4900	5100	3300	3700	2400	3200	2000
	Rear dozer down (Load over rear)	kg			17,420	10,800	11,240	7,280	8,160	5,290	7,060	4,410
	Rear stab down (Load over rear)	kg			*8000	5600	*6500	3700	*5600	2700	*3400	2300
	2 sets stab down (Load over front)	kg			*17,640	12,350	*14,330	8,160	*12,350	5,950	*7,500	5,070
	Dozer and stab down (Load over front)	kg			*8000	6700	*6500	4400	5000	3200	*3400	2700
		kg			*17,640	14,770	*14,330	9,700	11,020	7,060	*7,500	5,950
		kg			*8000	*8000	*6500	6200	*5600	4400	*3400	*3400
1.5 m (5.0 ft)	Rear dozer up (Load over front)	kg			7500	4500	4900	3100	3600	2300	3100	2000
	Rear dozer down (Load over rear)	kg			16,540	9,920	10,800	6,830	7,940	5,070	6,830	4,410
	Rear stab down (Load over rear)	kg			*9800	5200	*7300	3500	5500	2600	*3600	2200
	2 sets stab down (Load over front)	kg			*21,610	11,460	*16,090	7,720	12,130	5,730	*7,940	4,850
	Dozer and stab down (Load over front)	kg			*9800	6300	6800	4200	4800	3100	*3600	2600
		kg			*21,610	13,890	14,990	9,260	10,580	6,830	*7,940	5,730
		kg			*9800	9200	*7300	6000	*6000	4300	*3600	*3600
Ground	Rear dozer up (Load over front)	kg	*7000	*7000	4300	4800	3000	3500	2200	3100	2000	
	Rear dozer down (Load over rear)	kg	*15,430	*15,430	15,870	9,480	10,580	6,610	7,720	4,850	6,830	4,410
	Rear stab down (Load over rear)	kg	*15,430	*15,430	*23,590	10,800	16,760	7,500	11,910	5,510	*9,040	4,850
	2 sets stab down (Load over front)	kg	*7000	*7000	10,500	6000	6600	4100	4800	3000	*4100	2700
	Dozer and stab down (Load over front)	kg	*15,430	*15,430	23,150	13,230	14,550	9,040	10,580	6,610	*9,040	5,950
		kg	*7000	*7000	*10,700	8900	*7800	5800	*6200	4200	*4100	3700
		kg	*15,430	*15,430	*23,590	19,620	*17,200	12,790	*13,670	9,260	*9,040	8,160
-1.5 m (-5.0 ft)	Rear dozer up (Load over front)	kg	*9700	7300	7000	4100	4700	2900	3500	2200	3300	2100
	Rear dozer down (Load over rear)	kg	*21,390	16,090	15,430	9,040	10,360	6,390	7,720	4,850	7,280	4,630
	Rear stab down (Load over rear)	kg	*9700	8600	*10,600	4800	7500	3300	5300	2500	*4900	2400
	2 sets stab down (Load over front)	kg	*21,390	18,960	*23,370	10,580	16,540	7,280	11,690	5,510	*10,800	5,290
	Dozer and stab down (Load over front)	kg	*9700	*9700	10,400	5900	6500	4000	4700	3000	4500	2900
		kg	*21,390	*21,390	22,930	13,010	14,330	8,820	10,360	6,610	9,920	6,390
		kg	*9700	*9700	*10,600	8700	*7800	5700	*6000	4200	*4900	4000
-3.0 m (-10.0 ft)	Rear dozer up (Load over front)	kg	*13,600	7400	7000	4100	4700	2900	3500	2200	3300	2100
	Rear dozer down (Load over rear)	kg	*29,980	16,310	15,430	9,040	10,360	6,390	7,720	4,850	7,280	4,630
	Rear stab down (Load over rear)	kg	*13,600	8700	*9600	4800	*7100	3300	5300	2500	*4900	2400
	2 sets stab down (Load over front)	kg	*29,980	19,180	*21,160	10,580	*15,650	7,280	11,690	5,510	*10,800	5,290
	Dozer and stab down (Load over front)	kg	*13,600	11,200	*9600	5900	6500	4000	4700	3000	4500	2900
		kg	*29,980	24,690	*21,160	13,010	14,330	8,820	10,360	6,610	9,920	6,390
		kg	*13,600	*13,600	*9600	8700	*7100	5700	*6000	4200	*4900	4000
-4.5 m (-15.0 ft)	Rear dozer up (Load over front)	kg	*10,100	7500	7100	4200	4700	2900	3500	2200	3300	2100
	Rear dozer down (Load over rear)	kg	*22,270	16,540	15,650	9,260	10,360	6,390	7,720	4,850	7,280	4,630
	Rear stab down (Load over rear)	kg	*10,100	8900	7300	4900	7100	3300	5300	2500	4900	2400
	2 sets stab down (Load over front)	kg	*22,270	19,620	*16,090	10,800	*15,650	7,280	11,690	5,510	*10,800	5,290
	Dozer and stab down (Load over front)	kg	*10,100	*10,100	*7300	6000	7100	3300	5300	2500	4900	2400
		kg	*22,270	*22,270	*16,090	13,230	14,330	8,820	10,360	6,610	9,920	6,390
		kg	*10,100	*10,100	*7300	6000	7100	3300	5300	2500	4900	2400

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard JISO 10567. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.

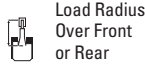
- All lift capacities are calculated with Heavy Lift on.
- Oscillating axle must be locked.
- All values are calculated at the stick nose.

VA Boom Industrial Stick – 3.3 m (10'10") stick

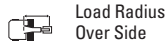
Industrial Stick 3.3 m (10'10")



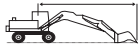
Load Point Height



Load Radius Over Front or Rear



Load Radius Over Side



Load at Maximum Reach

Undercarriage configuration	3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		m/ft		
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	
6.0 m (20.0 ft)	Rear dozer up (Load over front)	kg				*5000	3600				
	Rear dozer down (Load over rear)	kg				*11,020	7,940				
	Rear stab down (Load over rear)	kg				*5000	4100				
	2 sets stab down (Load over front)	kg				*11,020	9,040				
	Dozer and stab down (Load over front)	kg				*5000	4800				
	Dozer and stab down (Load over front)	kg				*11,020	10,580				
4.5 m (15.0 ft)	Rear dozer up (Load over front)	kg		*5900	5300	5400	3600	3800	2500	*3100	2200
	Rear dozer down (Load over rear)	kg		*13,010	11,690	11,910	7,940	8,380	5,510	*6,830	4,850
	Rear stab down (Load over rear)	kg		*5900	*5900	*5800	4000	*4500	2800	*3100	2500
	2 sets stab down (Load over front)	kg		*13,010	*13,010	*12,790	8,820	*9,920	6,170	*6,830	5,510
	Dozer and stab down (Load over front)	kg		*5900	*5900	*5800	4700	*4500	3300	*3100	2900
	Dozer and stab down (Load over front)	kg		*13,010	*13,010	*12,790	10,360	*9,920	7,280	*6,830	6,390
3.0 m (10.0 ft)	Rear dozer up (Load over front)	kg	*10,900	9100	8000	5100	5300	3500	2500	3100	2000
	Rear dozer down (Load over rear)	kg	*24,030	20,060	17,640	11,240	11,690	7,720	8,380	5,510	6,830
	Rear stab down (Load over rear)	kg	*10,900	10,500	*8200	5800	*6500	3900	*5600	2800	*3200
	2 sets stab down (Load over front)	kg	*24,030	23,150	*18,080	12,790	*14,330	8,600	*12,350	6,170	*7,060
	Dozer and stab down (Load over front)	kg	*10,900	*10,900	*8200	6900	*6500	4600	5000	3300	*3200
	Dozer and stab down (Load over front)	kg	*24,030	*24,030	*18,080	15,210	*14,330	10,140	11,020	7,280	*7,060
1.5 m (5.0 ft)	Rear dozer up (Load over front)	kg	*13,700	8800	7800	5000	5300	3500	2400	3000	1900
	Rear dozer down (Load over rear)	kg	*13,200	19,400	17,200	11,020	11,690	7,720	8,380	5,290	6,610
	Rear stab down (Load over rear)	kg	*13,700	10,100	*9800	5700	*7300	3900	5600	2700	*3400
	2 sets stab down (Load over front)	kg	*13,200	22,270	*21,610	12,570	*16,090	8,600	12,350	5,950	*7,500
	Dozer and stab down (Load over front)	kg	*13,700	12,500	*9800	6800	6900	4600	5000	3200	*3400
	Dozer and stab down (Load over front)	kg	*13,200	27,560	*21,610	14,990	15,210	10,140	11,020	7,060	*7,500
Ground	Rear dozer up (Load over front)	kg	*14,900	8700	7800	5000	5300	3400	2300	3100	1900
	Rear dozer down (Load over rear)	kg	*32,850	19,180	17,200	11,020	11,690	7,500	7,940	5,070	6,830
	Rear stab down (Load over rear)	kg	*15,000	10,100	*10,600	5700	*7700	3800	5500	2600	*3800
	2 sets stab down (Load over front)	kg	*33,070	22,270	*23,370	12,570	*16,980	8,380	12,130	5,730	*8,380
	Dozer and stab down (Load over front)	kg	*15,000	12,500	*10,600	6700	6900	4500	4900	3100	*3800
	Dozer and stab down (Load over front)	kg	*33,070	27,560	*23,370	14,770	15,210	9,920	10,800	6,830	*8,380
-1.5 m (-5.0 ft)	Rear dozer up (Load over front)	kg	15,100	8300	7800	4700	5000	3100	2200	3300	2100
	Rear dozer down (Load over rear)	kg	33,290	18,300	17,800	10,360	11,020	6,830	7,720	4,850	7,280
	Rear stab down (Load over rear)	kg	*16,700	9800	*10,700	5400	7700	3600	5400	2500	*4500
	2 sets stab down (Load over front)	kg	*36,820	21,610	*23,590	11,910	16,980	7,940	11,910	5,510	*9,920
	Dozer and stab down (Load over front)	kg	*16,700	12,400	*10,600	6600	6900	4300	4800	3000	*4500
	Dozer and stab down (Load over front)	kg	*36,820	27,340	*23,370	14,550	15,210	9,480	10,580	6,610	*9,920
-3.0 m (-10.0 ft)	Rear dozer up (Load over front)	kg	15,100	8100	7500	4500	4800	2900			
	Rear dozer down (Load over rear)	kg	33,290	17,860	16,540	9,920	10,580	6,390			
	Rear stab down (Load over rear)	kg	*17,100	9500	*10,900	5200	*7600	3400			
	2 sets stab down (Load over front)	kg	*37,700	20,940	*24,030	11,460	*16,760	7,500			
	Dozer and stab down (Load over front)	kg	*17,100	12,200	*10,900	6300	6700	4100			
	Dozer and stab down (Load over front)	kg	*37,700	26,900	*24,030	13,890	14,770	9,040			
-4.5 m (-15.0 ft)	Rear dozer up (Load over front)	kg	14,900	7900	7300	4300					
	Rear dozer down (Load over rear)	kg	32,850	17,420	16,090	9,480					
	Rear stab down (Load over rear)	kg	*15,600	9300	*8500	5000					
	2 sets stab down (Load over front)	kg	*34,390	20,500	*18,740	11,020					
	Dozer and stab down (Load over front)	kg	*15,600	11,900	*8500	6100					
	Dozer and stab down (Load over front)	kg	*34,390	26,230	*18,740	13,450					

- * Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard JISO 10567. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping load.
- All lift capacities are calculated with Heavy Lift on.
 - Oscillating axle must be locked.
 - VA Boom is adjusted to achieve the optimum lifting position at each location of the lifting grid.
 - All values are calculated at the stick nose.

Standard Equipment

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

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
- Joysticks
- 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
- Monitor and gauges with full color graphical display
 - 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
- 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

Electrical

- Alternator, 75amp
- Maintenance free batteries
- Lights
 - Boom working light
 - Cab interior
 - 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 U.S. EPA Tier 3
- 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

Undercarriage

- Heavy-Duty axles with advanced travel motor with adjustable braking force
- Oscillating front axle with remote greasing
- Pin-on design preparation for dozer blade and outriggers
- Tool box in undercarriage
- Tires, 10.00-20 16PR, dual
- Two-piece drive shaft
- Two-speed transmission with manual and automatic gear shifting

Other Equipment

- Automatic swing brake
- Caterpillar Datalink and Electronic Technician capability
- Caterpillar Product Link
- Door locks and caps locks with Caterpillar one-key security system
- Mirrors, frame and cab
- S•O•SSM quick sampling valves for engine oil, hydraulic oil and coolant
- Upper structure storage box

Optional Equipment

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

Auxiliary Controls and Lines

- Auxiliary boom and stick lines
- Anti-drift valves for bucket, stick, VA Boom and tool control/multi-function circuits
- Basic control circuits:
 - Single action
 - One-way, high pressure circuit, for hammering application
 - Medium pressure
 - Two-way, medium pressure circuit, for rotating or tilting of work tools
 - Tool control/multi function
 - One/two-way high pressure for hammer application or opening and closing of a work tool
 - Programmable flow and pressure for up to 10 work tools – selection via monitor
 - Second high pressure
 - Additional two-way, high pressure circuit, for tools requiring a second high or medium pressure function
 - Quick coupler control
 - Biodegradable hydraulic oil (synthetic ester based)
 - Generator with valve and priority function
 - Lowering control devices for boom and stick

Front Linkage

- Booms
 - One-piece boom, 5.35 m (17 ft 7 in)
 - Variable adjustable boom (two piece), 5.26 m (17 ft 3 in)
- Bucket linkage with diverter valve
- Sticks
 - 2.2 m (7 ft 3 in) stick
 - 2.5 m (8 ft 2 in) stick
 - 2.8 m (9 ft 2 in) stick
 - 3.3 m (10 ft 10 in) Industrial stick 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 consisting of long life 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 (4 ft)
- 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 seat with mechanical suspension
 - Adjustable high-back seat with air suspension (vertical)
 - Adjustable high-back deluxe seat 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, with remote greasing
- Optional tires
 - 11.00-20 dual tires
 - 18-R 19.5 XF single
 - 600/40-22.5 single
 - 10.00-20 dual solid rubber
- Outriggers, front and/or rear mounted
- Second tool box for undercarriage
- Spacer rings for tires
- Wide axles
- Other Equipment
 - Auto-lube system for the implements and swing gear
 - Cat Machine Security System
 - Custom paint
 - Heated mirrors, frame and cab
 - Joystick steering
 - Enables steering of the machine in first gear using the sliding switch on joystick
 - Lockable tool box in upper frame
 - Waste package with cyclone air pre-cleaner, reversible fan with programmable time

M318D Wheel Excavator

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