

M322D

Wheel Excavator



Engine

Engine Model	Cat [®] C6.6 ACERT™	
Net Power	123 kW	165 hp
	• Maximum power at 1,800 rpm	

Weights

Operating Weight	20 000 kg (44,092 lb) to 22 000 kg (48,502 lb)	
------------------	---	--

Transmission

Maximum Travel Speed	25 km/h	16 mph
----------------------	---------	--------

M322D 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 M322D delivers a maximum gross power of 130 kW (174 hp) at a rated speed of 2,000 rpm.

Low Fuel Consumption. The C6.6 is electronically controlled and uses the new Cat Common Rail Fuel System and fuel pump. This combination provides outstanding fuel consumption during both production and travel. When the system recognizes roading application the engine 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.



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.

Sticks. Three stick lengths and three MH sticks 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 2 in) for greater crowd force and lift capacity.
- Long stick (2.9 m/9 ft 6 in) for greater depth and reach requirements.
- 4.9 m (16 ft 1 in) Drop nose stick for MH boom applications
- 5.9 m (19 ft 4 in) Long drop nose stick for MH boom applications
- 4.8 m (15 ft 9 in) straight stick for MH boom 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.

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.



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



Fuel Efficiency. The D-Series Wheel Excavators are designed for outstanding performance with high fuel efficiency. This means more work done in a day, less fuel consumed and minimal impact on our environment.

Low Exhaust Emissions. The 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	123 kW	165 hp
Gross Power	129 kW	173 hp
ISO 9249	123 kW	165 hp
EEC 80/1269	123 kW	165 hp
Bore	105 mm	4.13 in
Stroke	127 mm	5 in
Displacement	6.6 L	403 in ³
Cylinders	6	
Maximum Torque at 1,400 rpm	750 N·m	553 lb ft

- Maximum power at 2,000 rpm

Weights

Operating Weight (Light Counterweight)	20 000 kg (44,092 lb)	to 22 000 kg (48,502 lb)
Operating Weight (Standard Counterweight)	20 500 kg (45,194 lb)	to 22 500 kg (49,604 lb)
Operating Weight (Heavy Counterweight)	21 500 kg (47,399 lb)	to 23 500 kg (51,809 lb)
VA Boom		
Rear dozer only	19 950 kg	43,982 lb
Rear dozer, front outriggers	21 200 kg	46,738 lb
Front and rear outriggers	21 500 kg	47,399 lb
One-Piece Boom		
Rear dozer only	19 450 kg	42,879 lb
Rear dozer, front outriggers	20 700 kg	45,635 lb
Front and rear outriggers	21 000 kg	46,297 lb
Material Handling Boom		
Rear dozer only	20 400 kg	44,974 lb
Rear dozer, front outriggers	21 900 kg	48,281 lb
Front and rear outriggers	21 750 kg	47,950 lb
Four welded outriggers	22 700 kg	50,045 lb
Dozer Blade	920 kg	2,028 lb
Outriggers	1260 kg	2,778 lb
Counterweight	4400 kg	9,700 lb
2.2 m (7'3") stick	650 kg	1,433 lb
2.5 m (8'3") stick	700 kg	1,543 lb
2.9 m (9'6") stick	780 kg	1,720 lb
4.9 m (16'1") MH stick	910 kg	2,006 lb
5.9 m (19'4") MH stick	1080 kg	2,381 lb

- VA/One-Piece weights include standard counterweight.
MH weights include recommended heavy counterweight.

Swing Mechanism

Swing Speed	9 rpm	
Swing Torque	56 kN·m	41,303 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	34 000 kPa	4,931 psi

Maximum flow

Implement/travel circuit	350 L/min	92 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	25 km/h	16 mph
1st Gear, Forward/Reverse	7 km/h	4 mph
2nd Gear, Forward/Reverse	25 km/h	16 mph
Creeper Speed (1st Gear)	3 km/h	2 mph
Creeper Speed (2nd Gear)	12 km/h	7.5 mph
Drawbar Pull	112 kN	25,179 lb
Maximum Gradeability	60%	

Service Refill Capacities

Fuel Tank Capacity	385 L	102 gal
Cooling	33 L	8.7 gal
Engine Crankcase	15 L	4 gal
Rear Axle Housing (Differential)	14.5 L	3.8 gal
Front Steering Axle (Differential)	11 L	2.9 gal
Final Drive		
Final Drive	2.5 L	0.7 gal
Powershift Transmission	2.5 L	0.7 gal
Hydraulic Tank	220 L	58 gal
Hydraulic System (including tank)	335 L	89 gal

Tires

Optional	See Optional Equipment
Standard	11.00-20 dual pneumatic

Undercarriage

Ground Clearance	380 mm	15 in
Maximum Steering Angle ±	35°	
Oscillating Axle Angle ±	9°	

Standard Axle

Minimum Turning Radius (Outside of tire)	6.8 m	22 ft
Minimum Turning Radius (End of VA boom)	7.8 m	25 ft 6 in
Minimum Turning Radius (End of One-piece boom)	9.3 m	30 ft 6 in

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)
-------------	--

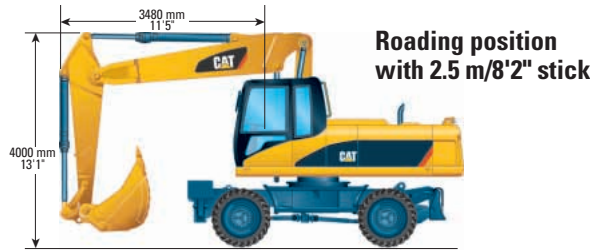
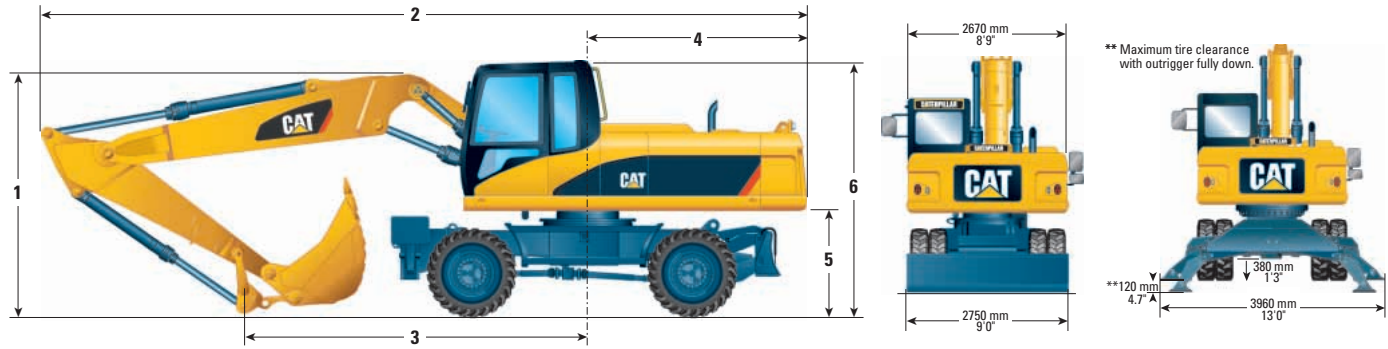
- When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 OCT 98, meets OSHA and MSHA requirements for operator sound exposure limits in effect at time of manufacture.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in noisy environment.

Standards

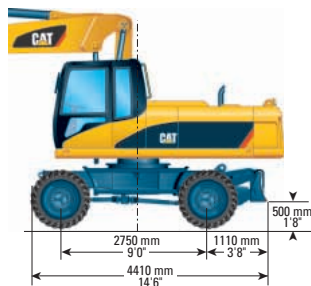
Brakes	SAE J1026 APR 90
Cab/FOGS	ISO 10262

Dimensions

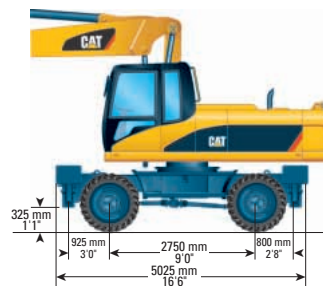
All dimensions are approximate.



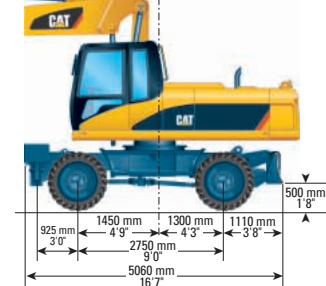
Undercarriage with dozer only



Undercarriage with 2 sets of outriggers



Undercarriage with 1 set of outriggers and dozer



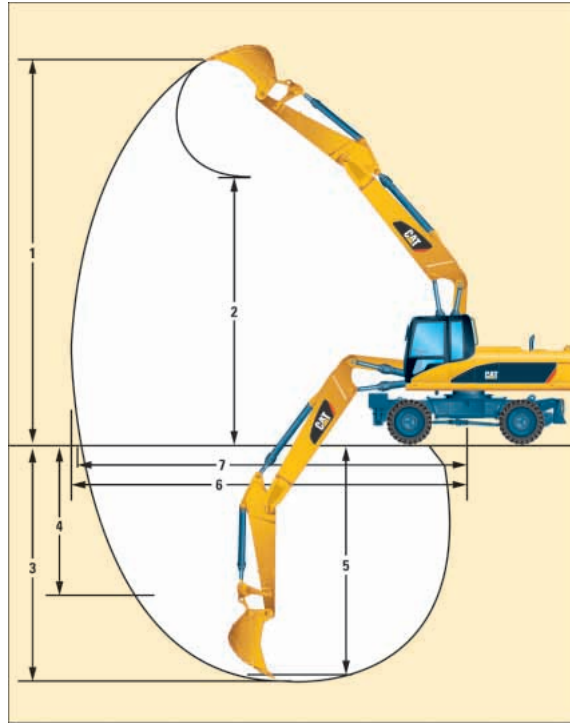
Stick Options

	2.2 m (7'3")		2.5 m (8'2")		2.9 m (9'6")	
	mm	ft/in	mm	ft/in	mm	ft/in
1 Shipping Height						
VA Boom	3260	10'8"	3230	10'7"	3250	10'8"
One-piece Boom	3300	10'10"	3250	10'8"	3290	10'10"
2 Shipping Length						
VA Boom	9430	30'11"	9440	31'0"	9430	30'11"
One-piece Boom	9650	31'8"	9640	31'8"	9650	31'8"
3 Support Point						
VA Boom	4160	13'8"	3660	12'0"	3420	11'3"
One-piece Boom	4240	13'11"	3720	12'2"	3440	11'3"
4 Tail Swing Radius						
VA Boom and One-piece Boom	2750	9'0"	2750	9'0"	2750	9'0"
5 Counterweight Clearance						
VA Boom and One-piece Boom	1310	4'4"	1310	4'4"	1310	4'4"
6 Cab Height						
VA Boom and One-piece Boom	3200	10'6"	3200	10'6"	3200	10'6"

Note: All dimensions are approximate and cab height is without Falling Object Guards.

VA Boom and One-piece Boom Working Ranges

2.2 m (7'3"), 2.5 m (8'2"), 2.9 m (9'6") Sticks



	VA Boom			One-piece Boom		
	2.2 m (7'3")	2.5 m (8'2")	2.9 m (9'6")	2.2 m (7'3")	2.5 m (8'2")	2.9 m (9'6")
Stick Length	2.2 m (7'3")	2.5 m (8'2")	2.9 m (9'6")	2.2 m (7'3")	2.5 m (8'2")	2.9 m (9'6")
1 Digging Height	10 560 mm (34'8")	10 620 mm (34'11")	10 930 mm (35'11")	9670 mm (31'9")	9540 mm (31'4")	9760 mm (32'1")
2 Dump Height	6930 mm (22'9")	7170 mm (23'7")	7500 mm (24'8")	6300 mm (20'8")	6230 mm (20'5")	6450 mm (21'2")
3 Digging Depth	5990 mm (19'8")	6280 mm (20'7")	6680 mm (21'11")	5770 mm (18'11")	6070 mm (19'11")	6470 mm (21'3")
4 Vertical Wall Digging Depth	4420 mm (14'6")	4450 mm (14'7")	4830 mm (15'10")	4480 mm (14'9")	4780 mm (15'8")	5160 mm (16'11")
5 Depth 2.5 m (8'2") Straight Clean-up	5780 mm (20'0")	6090 mm (20'0")	6510 mm (21'5")	5570 mm (18'3")	5880 mm (19'4")	6300 mm (20'8")
6 Reach	9770 mm (32'1")	10 000 mm (32'10")	10 390 mm (34'1")	9890 mm (32'6")	10 100 mm (33'2")	10 490 mm (34'5")
7 Reach at Ground Level	9590 mm (31'6")	9830 mm (32'3")	10 230 mm (33'7")	9720 mm (31'11")	9930 mm (32'7")	10 320 mm (33'11")
Bucket Forces (ISO 6015)	140 kN (31,472 lbf)	140 kN (31,472 lbf)	140 kN (31,472 lbf)	140 kN (31,472 lbf)	140 kN (31,472 lbf)	140 kN (31,472 lbf)
Stick Forces (ISO 6015)	123 kN (27,650 lbf)	114 kN (25,627 lbf)	104 kN (23,379 lbf)	123 kN (27,650 lbf)	114 kN (25,627 lbf)	104 kN (23,379 lbf)

Values 1-7 are calculated with bucket and quick coupler with a tip radius of 1712 mm (5'7").

Breakout force values are calculated with heavy lift on (no quick coupler) and a tip radius of 1511 mm (4'11").

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 5440 mm (17'10")									One-piece boom 5050 mm (16'7")								
			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 8'2"	2900 9'6"	2200 7'3"	2500 8'2"	2900 9'6"	2200 7'3"	2500 8'2"	2900 9'6"	2200 7'3"	2500 8'2"	2900 9'6"	2200 7'3"	2500 8'2"	2900 9'6"	2200 7'3"	2500 8'2"	2900 9'6"
Without quick coupler			(mm) Stick length (ft/in)																	
Hammers	H115 s, H120C s																			
	H130 s				×				×				×			×			×	
Multiprocessors	MP15	CC			×							×		×	×				×	
		CR, S			×						×		×		×				×	
	PP, PS		×	×				×			×	×	×			×			×	
MP20			×	×	×			×	×		×	×	×			×	×		×	
			×	×	×							×	×	×						
360° rotatable Shears (boom mounted)	S325		×	×	×								×	×	×					
	S340		×	×	×								×	×	×					
Sorting & Demo Grapple	G315B	D, R			×								×							
	G320B	D	×	×	×	×	×	×	×	×	×	×	×	×			×	×	×	
Compactors	CVP110																			
Orange Peel Grapples (4 tines)	GSH15	400 L (0.5 yd³)																		
		500 L (0.67 yd³)																		
		600 L (0.75 yd³)	×	×	×									×	×	×				
		800 L (1.00 yd³)	×	×	×									×	×	×				
	GSH20	600 L (0.75 yd³)	×	×	×									×	×	×				
		800 L (1.00 yd³)	×	×	×			×						×	×	×		×		×
		1000 L (1.25 yd³)	×	×	×			×					×	×	×		×		×	

• Not all work tools are available in all areas.

360° Working Range

Over the front only

Maximum Material density 1800 kg/m³ (3,000 lb/yd³)

Maximum Material density 1200 kg/m³ (2,000 lb/yd³)

× Not Compatible

Bucket Specifications


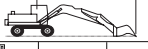













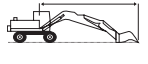
Contact your Caterpillar dealer for special bucket requirements.

Buckets without Quick Coupler

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	676	1493	0.86	1.12	4
	1067	42	797	1759	1.17	1.53	5
	1219	48	930	2052	1.39	1.82	6
	1295	51	791	1746	1.19	1.55	5
	1372	54	939	2072	1.57	2.05	6
General Purpose Wide Tip	1499	59	861	1900	1.41	1.84	5
	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
	1245	49	800	1766	1.13	1.48	4
	1295	51	830	1832	1.18	1.54	5
Heavy Duty Power	1397	55	867	1914	1.29	1.68	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	
														
 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					5600	3800					
		lb						12,350	8,380					
		Rear dozer down (Load over rear)	kg					*6700	4300					
		lb						*14,770	9,480					
		Rear stab down (Load over rear)	kg					*6700	5200					
		lb						*14,770	11,460					
		2 sets stab down (Load over front)	kg					*6700	*6700					
lb						*14,770	*14,770							
Dozer and stab down (Load over front)	kg					*6700	6300							
lb						*14,770	13,890							
4.5 m (15.0 ft)	Rear dozer up (Load over front)	kg			8600	5700	5500	3800	3700	2400	*2700	2000	8.27 m (27'2")	
	lb			18,960	12,570	12,130	8,380	8,160	5,290	*5,950	4,410			
	Rear dozer down (Load over rear)	kg		*8800	6600	*7100	4300	*6300	2800	*2700	2300			
	lb		*19,400	14,550	*15,650	9,480	*13,890	6,170	*5,950	5,070				
	Rear stab down (Load over rear)	kg		*8800	8000	*7100	5100	5500	3400	*2700	*2700			
	lb		*19,400	17,640	*15,650	11,240	12,130	7,500	*5,950	*5,950				
	2 sets stab down (Load over front)	kg		*8800	*8800	*7100	*7100	*6300	4900	*2700	*2700			
lb		*19,400	*19,400	*15,650	*15,650	*13,890	10,800	*5,950	*5,950					
Dozer and stab down (Load over front)	kg		*8800	*7100	6200	*6300	4200	*2700	*2700	*2700				
lb		*19,400	*19,400	*15,650	13,670	*13,890	9,260	*5,950	*5,950					
3.0 m (10.0 ft)	Rear dozer up (Load over front)	kg			8300	5500	3700	3700	2400	*2600	1800	8.66 m (28'5")		
	lb			18,300	12,130	8,160	8,160	5,290	*5,730	3,970				
	Rear dozer down (Load over rear)	kg		*10 500	6300	*7800	4200	6300	2800	*2600	2100			
	lb		*23,150	13,890	*17,200	9,260	13,890	6,170	*5,730	4,630				
	Rear stab down (Load over rear)	kg		*10 500	7700	*7800	5100	5500	3400	*2600	*2600			
	lb		*23,150	16,980	*17,200	11,240	12,130	7,500	*5,730	*5,730				
	2 sets stab down (Load over front)	kg		*10 500	*10 500	*7800	7000	*6500	4900	*2600	*2600			
lb		*23,150	*23,150	*17,200	15,430	*14,330	10,800	*5,730	*5,730					
Dozer and stab down (Load over front)	kg		*10 500	9400	*7800	6100	*6500	4200	*2600	*2600				
lb		*23,150	20,720	*17,200	13,450	*14,330	9,260	*5,730	*5,730					
1.5 m (5.0 ft)	Rear dozer up (Load over front)	kg	*13 100	9900	8200	5400	3700	3600	2300	*2600	1700	8.75 m (28'8")		
	lb	*28,880	21,830	18,080	11,910	12,130	8,160	7,940	5,070	*5,730	3,750			
	Rear dozer down (Load over rear)	kg	*13 100	11 800	*11 700	6200	*8400	4200	6200	2700	*2600		2000	
	lb	*28,880	26,020	*25,790	13,670	*18,520	9,260	13,670	5,950	*5,730	4,410			
	Rear stab down (Load over rear)	kg	*13 100	*13 100	*11 700	7600	7800	5000	5400	3300	*2600		2500	
	lb	*28,880	*28,880	*25,790	16,760	17,200	11,020	11,910	7,280	*5,730	5,510			
	2 sets stab down (Load over front)	kg	*13 100	*13 100	*11 700	10 800	*8400	7000	*6600	4800	*2600		*2600	
lb	*28,880	*28,880	*25,790	23,810	*18,520	15,430	*14,550	10,580	*5,730	*5,730				
Dozer and stab down (Load over front)	kg	*13 100	*13 100	*11 700	9300	*8400	6100	*6600	4100	*2600	*2600			
lb	*28,880	*28,880	*25,790	20,500	*18,520	13,450	*14,550	9,040	*5,730	*5,730				
Ground	Rear dozer up (Load over front)	kg	16 100	9500	8300	5300	3500	3500	2200	*2700	1800	8.53 m (28'0")		
	lb	35,490	20,940	18,300	11,680	7,720	7,720	4,850	*5,950	3,970				
	Rear dozer down (Load over rear)	kg	*16 700	11 300	*11 800	6100	*8500	4000	6100	2600	*2700		2100	
	lb	*36,810	24,910	*26,020	13,450	*18,740	8,820	13,450	5,730	*5,950	4,630			
	Rear stab down (Load over rear)	kg	*16 700	14 600	*11 800	7500	7800	4900	5300	3200	*2700		2600	
	lb	*36,810	32,190	*26,020	16,540	17,200	10,800	11,680	7,060	*5,950	5,730			
	2 sets stab down (Load over front)	kg	*16 700	*16 700	*11 800	10 800	*8500	7100	*6700	4700	*2700		*2700	
lb	*36,810	*36,810	*26,020	23,810	*18,740	15,650	*14,770	10,360	*5,950	*5,950				
Dozer and stab down (Load over front)	kg	*16 700	*16 700	*11 800	9300	*8500	6100	*6700	4000	*2700	*2700			
lb	*36,810	*36,810	*26,020	20,500	*18,740	13,450	*14,770	8,820	*5,950	*5,950				
-1.5 m (-5.0 ft)	Rear dozer up (Load over front)	kg	16 200	9400	8100	5100	3300	3400	2100	*3000	2000	8.0 m (26'3")		
	lb	35,720	20,720	17,860	11,240	7,280	7,500	4,630	*6,610	4,410				
	Rear dozer down (Load over rear)	kg	*19 400	11 200	*12 000	5900	*8700	3800	*5400	2500	*3000		2300	
	lb	*42,770	24,690	*26,460	13,010	*19,180	8,380	*11,910	5,510	*6,610	5,070			
	Rear stab down (Load over rear)	kg	*19 400	14 500	*12 000	7300	7800	4600	5200	3100	*3000		2900	
	lb	*42,770	31,970	*26,460	16,090	17,200	10,140	11,460	6,830	*6,610	6,390			
	2 sets stab down (Load over front)	kg	*19 400	*19 400	*12 000	11 100	*8700	6800	*5400	4600	*3000		*3000	
lb	*42,770	*42,770	*26,460	24,470	*19,180	14,990	*11,910	10,140	*6,610	*6,610				
Dozer and stab down (Load over front)	kg	*19 400	18 900	*12 000	9300	*8700	5800	*5400	3900	*3000	*3000			
lb	*42,770	41,670	*26,460	20,500	*19,180	12,790	*11,910	8,600	*6,610	*6,610				
-3.0 m (-10.0 ft)	Rear dozer up (Load over front)	kg	16 300	9400	8000	5000	4900	3100						
	lb	35,940	20,720	17,640	11,020	10,800	6,830							
	Rear dozer down (Load over rear)	kg	*20 000	11 200	*12 300	5800	*7200	3600						
	lb	*44,090	24,690	*27,120	12,790	*15,870	7,940							
	Rear stab down (Load over rear)	kg	*20 000	14 500	*12 300	7200	*7200	4500						
	lb	*44,090	31,970	*27,120	15,870	*15,870	9,920							
	2 sets stab down (Load over front)	kg	*20 000	*20 000	*12 300	11 000	*7200	6600						
lb	*44,090	*44,090	*27,120	24,250	*15,870	14,550								
Dozer and stab down (Load over front)	kg	*20 000	19 400	*12 300	9100	*7200	5600							
lb	*44,090	42,770	*27,120	20,060	*15,870	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.
- Oscillating axle must be locked.
- All values are calculated at the stick-nose.

VA Boom – 2.5 m (8'2") stick

Stick
2.5 m (8'2")



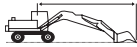
Load Point
Height



Load Radius
Over Front
or Rear



Load Radius
Over Side



Load at
Maximum Reach


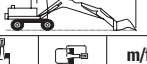














Stick 2.5 m (8'2")	Undercarriage configuration	3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		m/ft	
		kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
6.0 m (20.0 ft)	Rear dozer up (Load over front)	kg				5600	3800				
	Rear dozer down (Load over rear)	kg				12,350	8,380				
	Rear stab down (Load over rear)	kg				*6400	4300				
	2 sets stab down (Load over front)	kg				*14,110	9,480				
	Dozer and stab down (Load over front)	kg				*6400	5200				
		lb				*14,110	11,460				
		lb				*14,110	*14,110				
4.5 m (15.0 ft)	Rear dozer up (Load over front)	kg			*8300	5800	3800	3800	2500	*2300	1900
	Rear dozer down (Load over rear)	kg			*18,300	12,790	12,350	8,380	8,380	5,510	*5,070
	Rear stab down (Load over rear)	kg			*8300	6600	*6900	4300	*6000	2800	*2300
	2 sets stab down (Load over front)	kg			*18,300	14,550	*15,210	9,480	*13,230	6,170	*5,070
	Dozer and stab down (Load over front)	kg			*8300	8000	*6900	5100	5600	3400	*2300
		lb			*18,300	17,640	*15,210	11,240	12,350	7,500	*5,070
		lb			*18,300	*18,300	*15,210	*15,210	*13,230	11,020	*5,070
3.0 m (10.0 ft)	Rear dozer up (Load over front)	kg	*12,300	10,200	8400	5500	5400	3700	3800	2500	*2300
	Rear dozer down (Load over rear)	kg	*27,120	22,490	18,520	12,130	11,910	8,160	8,380	5,510	*5,070
	Rear stab down (Load over rear)	kg	*12,300	12,000	*10,100	6400	*7600	4200	6200	2800	*2300
	2 sets stab down (Load over front)	kg	*27,120	26,460	*22,270	14,110	*16,760	9,260	13,670	6,170	*5,070
	Dozer and stab down (Load over front)	kg	*12,300	*12,300	*10,100	7700	*7600	5000	5600	3400	*2300
		lb	*27,120	*27,120	*22,270	16,980	*16,760	11,020	12,350	7,500	*5,070
		lb	*27,120	*27,120	*22,270	*22,270	*16,760	15,430	*13,890	10,800	*5,070
1.5 m (5.0 ft)	Rear dozer up (Load over front)	kg	*14,000	9900	8200	5400	5400	3600	3700	2400	*2400
	Rear dozer down (Load over rear)	kg	*30,870	21,830	18,080	11,910	11,910	7,940	8,160	5,290	*5,290
	Rear stab down (Load over rear)	kg	*14,000	11,700	*11,500	6200	*8300	4100	6200	2700	*2400
	2 sets stab down (Load over front)	kg	*30,870	25,790	*25,350	13,670	*18,300	9,040	13,670	5,950	*5,290
	Dozer and stab down (Load over front)	kg	*14,000	*14,000	*11,500	7600	7800	5000	5500	3300	*2400
		lb	*30,870	*30,870	*25,350	16,760	17,800	11,020	12,130	7,280	*5,290
		lb	*30,870	*30,870	*25,350	23,810	*18,300	15,210	*14,330	10,800	*5,290
Ground	Rear dozer up (Load over front)	kg	16,300	9800	8300	5400	5300	3500	3500	2300	*2500
	Rear dozer down (Load over rear)	kg	35,490	21,610	18,300	11,910	11,690	7,720	7,720	5,070	*5,510
	Rear stab down (Load over rear)	kg	*16,400	11,600	*11,800	6200	*8500	4000	6100	2600	*2500
	2 sets stab down (Load over front)	kg	*36,160	25,570	*26,010	13,670	*18,740	8,820	13,450	5,730	*5,510
	Dozer and stab down (Load over front)	kg	*16,400	14,600	*11,800	7600	7800	4900	5300	3200	*2500
		lb	*36,160	*36,160	*26,010	16,760	17,800	10,800	11,690	7,060	*5,510
		lb	*36,160	*36,160	*26,010	23,810	*18,740	15,430	*14,550	10,360	*5,510
-1.5 m (-5.0 ft)	Rear dozer up (Load over front)	kg	16,300	9400	8100	5100	5100	3300	3400	2100	*2800
	Rear dozer down (Load over rear)	kg	35,940	20,720	17,860	11,240	11,240	7,280	7,500	4,630	*6,170
	Rear stab down (Load over rear)	kg	*19,300	11,200	*11,900	5900	*8600	3800	6000	2500	*2800
	2 sets stab down (Load over front)	kg	*42,550	24,690	*26,240	13,010	*18,960	8,380	13,230	5,510	*6,170
	Dozer and stab down (Load over front)	kg	*19,300	14,500	*11,900	7300	7800	4700	5200	3100	*2800
		lb	*42,550	*42,550	*26,240	16,090	17,800	10,360	11,460	6,830	*6,170
		lb	*42,550	*42,550	*26,240	24,250	*18,960	14,990	*13,450	10,140	*6,170
-3.0 m (-10.0 ft)	Rear dozer up (Load over front)	kg	16,200	9300	8000	5000	4900	3100			
	Rear dozer down (Load over rear)	kg	35,720	20,500	17,640	11,020	10,800	6,800			
	Rear stab down (Load over rear)	kg	*19,800	11,100	*12,300	5800	*8000	3600			
	2 sets stab down (Load over front)	kg	*43,650	24,470	*27,120	12,790	*17,640	7,940			
	Dozer and stab down (Load over front)	kg	*19,800	14,400	*12,300	7200	7600	4400			
		lb	*43,650	*43,650	*27,120	15,870	16,760	9,700			
		lb	*43,650	*43,650	*27,120	24,250	*17,640	14,550			
-4.5 m (-15.0 ft)	Rear dozer up (Load over front)	kg	16,300	9400							
	Rear dozer down (Load over rear)	kg	35,940	20,720							
	Rear stab down (Load over rear)	kg	*16,600	11,200							
	2 sets stab down (Load over front)	kg	*36,600	24,690							
	Dozer and stab down (Load over front)	kg	*16,600	14,500							

* 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 – 2.9 m (9'6") stick

Stick
2.9 m (9'6")

Stick 2.9 m (9'6")		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					5700	3800	3800	2500			
		Rear dozer down (Load over rear)	kg					12,570	8,380	8,380	5,510			
		Rear stab down (Load over rear)	kg						*5800	4300	*4200	2800		
		2 sets stab down (Load over front)	kg						*12,790	9,480	*9,260	6,170		
		Dozer and stab down (Load over front)	kg						*5800	5200	*4200	3400		
			lb						*12,790	11,460	*9,260	7,500		
			lb						*5800	*5800	*4200	*4200		
4.5 m (15.0 ft)	Rear dozer up (Load over front)	kg			*6600	5800	3800	3800	3800	2500	*2000	1700		
	Rear dozer down (Load over rear)	kg			*14,550	12,790	12,350	8,380	8,380	5,510	*4,410	3,750		
	Rear stab down (Load over rear)	kg			*6600	*6600	*6500	4300	*5700	2900	*2000	*2000		
	2 sets stab down (Load over front)	kg			*14,550	*14,550	*14,330	9,480	*12,570	6,390	*4,410	*4,410		
	Dozer and stab down (Load over front)	kg			*6600	*6600	*6500	5100	5600	3500	*2000	*2000		
		lb				*14,550	*14,550	*14,330	11,240	12,350	7,720	*4,410	*4,410	
		lb				*6600	*6600	*6500	*6500	*5700	5000	*2000	*2000	
3.0 m (10.0 ft)	Rear dozer up (Load over front)	kg		*11 900	10 300	8400	5500	5400	3600	3800	2500	*1900	1600	
	Rear dozer down (Load over rear)	kg		*26,240	22,710	18,520	12,130	11,910	7,940	8,380	5,510	*4,190	3,530	
	Rear stab down (Load over rear)	kg		*11 900	*11 900	*9600	6400	*7300	4100	*6100	2900	*1900	1800	
	2 sets stab down (Load over front)	kg		*26,240	*26,240	*21,160	14,110	*16,090	9,040	*13,450	6,390	*4,190	3,970	
	Dozer and stab down (Load over front)	kg		*11 900	*11 900	*9600	7700	*7300	5000	5500	3500	*1900	*1900	
		lb				*26,240	*26,240	*21,160	16,980	*16,090	11,020	12,130	7,720	*4,190
		lb				*26,240	*26,240	*21,160	*21,160	15,430	*13,450	11,020	*4,190	*4,190
1.5 m (5.0 ft)	Rear dozer up (Load over front)	kg		*13 800	9800	8200	5400	5400	3600	3700	2400	*2000	1500	
	Rear dozer down (Load over rear)	kg		*30,420	21,610	18,080	11,910	11,910	7,940	8,160	5,290	*4,410	3,310	
	Rear stab down (Load over rear)	kg		*13 800	11 600	*11 200	6200	*8100	4100	6200	2800	*2000	1800	
	2 sets stab down (Load over front)	kg		*30,420	25,570	*24,690	13,670	*17,860	9,040	13,670	6,170	*4,410	3,970	
	Dozer and stab down (Load over front)	kg		*13 800	*13 800	*11 200	7500	7700	5000	5500	3400	*2000	*2000	
		lb				*30,420	*30,420	*24,690	16,540	16,980	11,020	12,130	7,500	*4,410
		lb				*30,420	*30,420	*24,690	23,590	*17,860	15,210	*14,110	10,800	*4,410
Ground	Rear dozer up (Load over front)	kg		*15 800	9900	8200	5400	5400	3500	3600	2300	*2100	1500	
	Rear dozer down (Load over rear)	kg		*34,830	21,830	18,080	11,910	11,910	7,720	7,940	5,070	*4,630	3,310	
	Rear stab down (Load over rear)	kg		*15 800	11 700	*11 700	6200	*8400	4000	6100	2700	*2100	1800	
	2 sets stab down (Load over front)	kg		*34,830	25,790	*25,790	13,670	*18,520	8,820	13,450	5,950	*4,630	3,970	
	Dozer and stab down (Load over front)	kg		*15 800	14 400	*11 700	7500	7700	4900	5400	3300	*2100	*2100	
		lb				*34,830	31,750	*25,790	16,540	16,980	10,800	11,910	7,280	*4,630
		lb				*34,830	*34,830	*25,790	23,590	*18,520	15,210	*14,330	10,580	*4,630
-1.5 m (-5.0 ft)	Rear dozer up (Load over front)	kg		16 300	9400	8100	5100	5200	3400	3400	2100	*2400	1700	
	Rear dozer down (Load over rear)	kg		35,940	20,720	17,860	11,240	11,460	7,500	7,500	4,630	*5,290	3,750	
	Rear stab down (Load over rear)	kg		18 700	11 200	*11 800	5900	*8500	3900	6000	2500	*2400	2000	
	2 sets stab down (Load over front)	kg		*41,230	24,690	*26,010	13,010	*18,740	8,600	13,230	5,510	*5,290	4,410	
	Dozer and stab down (Load over front)	kg		18 700	14 500	*11 800	7300	7900	4700	5200	3100	*2400	*2400	
		lb				*41,230	31,970	*26,010	16,090	17,420	10,360	11,460	6,830	*5,290
		lb				*41,230	*41,230	*26,010	24,030	*18,740	15,210	*14,330	10,140	*5,290
-3.0 m (-10.0 ft)	Rear dozer up (Load over front)	kg		16 100	9200	7900	5000	4900	3100					
	Rear dozer down (Load over rear)	kg		35,490	20,280	17,420	11,020	10,800	6,830					
	Rear stab down (Load over rear)	kg		19 500	11 000	*12 100	5800	*8500	3600					
	2 sets stab down (Load over front)	kg		*42,990	24,250	*26,680	12,790	*18,740	7,940					
	Dozer and stab down (Load over front)	kg		19 500	14 300	*12 100	7200	7600	4400					
		lb				*42,990	31,530	*26,680	15,870	16,760	9,700			
		lb				*42,990	*19 500	*12 100	11 000	*8500	6600			
-4.5 m (-15.0 ft)	Rear dozer up (Load over front)	kg		16 300	9400	7700	4800							
	Rear dozer down (Load over rear)	kg		35,940	20,720	16,980	10,580							
	Rear stab down (Load over rear)	kg		18 800	11 200	*10 300	5600							
	2 sets stab down (Load over front)	kg		*41,450	24,690	*22,710	12,350							
	Dozer and stab down (Load over front)	kg		18 800	14 500	*10 300	6900							
		lb				*41,450	31,970	*22,710	15,210					
		lb				*41,450	*18 800	*10 300	*10 300	*22,710				

* 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.

One-piece Boom – 2.2 m (7'3") stick

Stick
2.2 m (7'3")



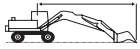
Load Point
Height



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					5500	3700				
	Rear dozer down (Load over rear)	kg					12,130	8,160				
	Rear stab down (Load over rear)	lb					*6400	4200				
	2 sets stab down (Load over front)	kg					*14,110	9,260				
	2 sets stab down (Load over rear)	lb					*6400	5000				
	Dozer and stab down (Load over front)	kg					*14,110	11,020				
4.5 m (15.0 ft)	Rear dozer up (Load over front)	kg					5300	3500	3700	2400	*2700	2000
	Rear dozer down (Load over rear)	kg					11,690	7,720	8,160	5,290	*5,950	4,410
	Rear stab down (Load over rear)	lb					*6900	4000	*6100	2800	*2700	2300
	2 sets stab down (Load over front)	kg					*15,210	8,820	*13,450	6,170	*5,950	5,070
	2 sets stab down (Load over rear)	lb					*6900	4900	5500	3400	*2700	*2700
	Dozer and stab down (Load over front)	kg					*15,210	10,800	*12,130	7,500	*5,950	*5,950
3.0 m (10.0 ft)	Rear dozer up (Load over front)	kg				7900	5000	5100	3300	3600	2300	*2700
	Rear dozer down (Load over rear)	kg				17,420	11,020	11,240	7,280	7,940	5,070	*5,950
	Rear stab down (Load over rear)	lb				*10 400	5800	*7700	3800	6100	2700	*2700
	2 sets stab down (Load over front)	kg				*22,930	12,790	*16,980	8,380	13,450	5,950	*5,950
	2 sets stab down (Load over rear)	lb				*10 400	7100	*7700	4600	5400	3300	*2700
	Dozer and stab down (Load over front)	kg				*22,930	15,650	*16,980	10,140	11,910	7,280	*5,950
1.5 m (5.0 ft)	Rear dozer up (Load over front)	kg				7200	4600	3100	4800	3500	2200	*2700
	Rear dozer down (Load over rear)	kg				16,310	10,140	10,580	6,830	7,720	4,850	*5,950
	Rear stab down (Load over rear)	lb				*11 700	5300	*8400	3600	6000	2600	*2700
	2 sets stab down (Load over front)	kg				*25,790	11,690	*18,520	7,940	13,230	5,730	*5,950
	2 sets stab down (Load over rear)	lb				*11 700	6600	7500	4400	5200	3200	*2700
	Dozer and stab down (Load over front)	kg				*25,790	14,550	*16,540	9,700	11,460	7,060	*5,950
Ground	Rear dozer up (Load over front)	kg				7200	4400	2900	4700	3400	2100	2800
	Rear dozer down (Load over rear)	kg				15,870	9,700	10,360	6,390	7,500	4,630	6,170
	Rear stab down (Load over rear)	lb				*11 800	5100	8500	3400	5900	2500	*2900
	2 sets stab down (Load over front)	kg				*26,010	11,240	18,740	7,500	13,010	5,510	*6,390
	2 sets stab down (Load over rear)	lb				*11 800	6400	7300	4200	5100	3100	*2900
	Dozer and stab down (Load over front)	kg				*26,010	14,110	16,090	9,260	11,240	6,830	*6,390
-1.5 m (-5.0 ft)	Rear dozer up (Load over front)	kg	*7900	*7900	7100	4400	4600	2900	3400	2100	3100	1900
	Rear dozer down (Load over rear)	kg	*17,420	*17,420	15,650	9,700	10,140	6,390	7,500	4,630	6,830	4,190
	Rear stab down (Load over rear)	lb	*17,420	*17,420	*24,030	11,240	*17,860	7,500	13,010	5,510	*7,060	4,850
	2 sets stab down (Load over front)	kg	*7900	*7900	*10 900	6400	7200	4200	5100	3100	*3200	2800
	2 sets stab down (Load over rear)	lb	*17,420	*17,420	*24,030	14,110	15,870	9,260	11,240	6,830	*7,060	6,170
	Dozer and stab down (Load over front)	kg	*7900	*7900	*10 900	8300	*8100	5300	*6000	3900	*3200	*3200
-3.0 m (-10.0 ft)	Rear dozer up (Load over front)	kg	*11 700	8500	7200	4400	4700	3000				
	Rear dozer down (Load over rear)	kg	*25,790	18,740	15,870	9,700	10,360	6,610				
	Rear stab down (Load over rear)	lb	*25,790	22,270	*20,060	11,460	*14,770	7,500				
	2 sets stab down (Load over front)	kg	*11 700	*11 700	*9100	6500	*6700	4200				
	2 sets stab down (Load over rear)	lb	*25,790	*25,790	*20,060	14,330	*14,770	9,260				
	Dozer and stab down (Load over front)	kg	*11 700	*25,790	*20,060	*20,060	*14,770	14,110				

* 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.

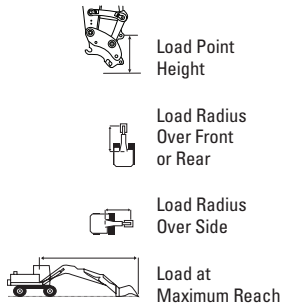
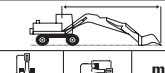
One-piece Boom – 2.5 m (8'2") stick

Stick
2.5 m (8'2")



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



Stick	Undercarriage configuration	kg	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							*2900	2400			
	Rear dozer down (Load over rear)	kg							*6,390	5,290			
	Rear stab down (Load over rear)	kg							*2900	2800			
	2 sets stab down (Load over front)	kg							*6,390	6,170			
	Dozer and stab down (Load over front)	kg							*2900	*2900			
		lb								*6,390	*6,390		
		lb								*6,390	*6,390		
4.5 m (15.0 ft)	Rear dozer up (Load over front)	kg					5400	3600	3700	2400	*2400	1900	
	Rear dozer down (Load over rear)	kg					11,910	7,940	8,160	5,290	*5,290	4,190	
	Rear stab down (Load over rear)	kg					*6600	4100	*5900	2800	*2400	2200	
	2 sets stab down (Load over front)	kg					*14,550	9,040	*13,010	6,170	*5,290	4,850	
	Dozer and stab down (Load over front)	kg					*6600	4900	5500	3400	*2400	*2400	
		lb					*14,550	10,800	12,130	7,500	*5,290	*5,290	
		lb					*14,550	*14,550	*13,010	10,800	*5,290	*5,290	
3.0 m (10.0 ft)	Rear dozer up (Load over front)	kg			8000	5100	3300	3600	2300	*2400	1700		
	Rear dozer down (Load over rear)	kg			17,640	11,240	11,240	7,280	7,940	5,070	*5,290	3,750	
	Rear stab down (Load over rear)	kg			*10,000	5900	*7500	3800	6100	2700	*2400	2000	
	2 sets stab down (Load over front)	kg			*22,050	13,010	*16,540	8,380	13,450	5,950	*5,290	4,410	
	Dozer and stab down (Load over front)	kg			*10,000	7200	*7500	4600	5400	3300	*2400	*2400	
		lb			*22,050	15,870	*16,540	10,140	11,910	7,280	*5,290	*5,290	
		lb			*22,050	*10,000	*7500	6800	*6200	4800	*2400	*2400	
1.5 m (5.0 ft)	Rear dozer up (Load over front)	kg			7400	4600	3100	3500	2200	*2400	1600		
	Rear dozer down (Load over rear)	kg			16,310	10,140	10,800	6,830	7,720	4,850	*5,290	3,530	
	Rear stab down (Load over rear)	kg			*11,500	5400	*8200	3600	6000	2600	*2400	1900	
	2 sets stab down (Load over front)	kg			*25,350	11,910	*18,080	7,940	13,230	5,730	*5,290	4,190	
	Dozer and stab down (Load over front)	kg			*11,500	6700	7500	4400	5200	3100	*2400	*2400	
		lb			*25,350	14,770	16,540	9,700	11,460	6,830	*5,290	*5,290	
		lb			*25,350	22,930	*18,080	14,550	*14,330	10,140	*5,290	*5,290	
Ground	Rear dozer up (Load over front)	kg			4400	2900	2900	3400	2100	*2600	1700		
	Rear dozer down (Load over rear)	kg			15,870	9,700	10,360	6,390	7,500	4,630	*5,730	3,750	
	Rear stab down (Load over rear)	kg			*11,900	5100	8500	3400	5900	2500	*2600	1900	
	2 sets stab down (Load over front)	kg			*26,240	11,240	18,740	7,500	13,010	5,510	*5,730	4,190	
	Dozer and stab down (Load over front)	kg			*11,900	6400	7300	4200	5100	3100	*2600	2400	
		lb			*26,240	14,110	16,090	9,260	11,240	6,830	*5,730	5,290	
		lb			*26,240	22,270	*18,960	14,110	*14,550	10,140	*5,730	*5,730	
-1.5 m (-5.0 ft)	Rear dozer up (Load over front)	kg	*9100	8200	4300	4600	2900	3400	2100	2900	1800		
	Rear dozer down (Load over rear)	kg	*20,060	18,080	15,650	9,480	10,140	6,390	7,500	4,630	6,390	3,970	
	Rear stab down (Load over rear)	kg	*9100	*9100	*11,200	5100	*8300	3300	5800	2400	*3000	2100	
	2 sets stab down (Load over front)	kg	*20,060	*20,060	*24,690	11,240	*18,300	7,280	12,790	5,290	*6,610	4,630	
	Dozer and stab down (Load over front)	kg	*9100	*9100	*11,200	6400	7200	4200	5100	3000	*3000	2600	
		lb	*20,060	*20,060	*24,690	14,110	15,870	9,260	11,240	6,610	*6,610	5,730	
		lb	*20,060	*20,060	*24,690	22,050	*18,300	13,890	*13,670	9,920	*6,610	*6,610	
-3.0 m (-10.0 ft)	Rear dozer up (Load over front)	kg	*12,800	8400	7200	4400	4600	2900					
	Rear dozer down (Load over rear)	kg	*28,220	18,520	15,870	9,700	10,140	6,390					
	Rear stab down (Load over rear)	kg	*12,800	10,000	*9600	5100	*7100	3400					
	2 sets stab down (Load over front)	kg	*28,220	22,050	*21,160	11,240	*15,650	7,500					
	Dozer and stab down (Load over front)	kg	*12,800	*12,800	*9600	6500	*7100	4200					
		lb	*28,220	*28,220	*21,160	14,330	*15,650	9,260					
		lb	*28,220	*28,220	*21,160	*21,160	*15,650	13,890					
-4.5 m (-15.0 ft)	Rear dozer up (Load over front)	kg			*6500	4600							
	Rear dozer down (Load over rear)	kg			*14,330	5400							
	Rear stab down (Load over rear)	kg			*14,330	11,910							
	2 sets stab down (Load over front)	kg			*6500	*6500							
	Dozer and stab down (Load over front)	kg			*14,330	*14,330							

* 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.

One-piece Boom – 2.9 m (9'6") stick

Stick
2.9 m (9'6")



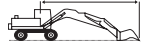
Load Point Height



Load Radius Over Front or Rear



Load Radius Over Side



Load at Maximum Reach

Stick 2.9 m (9'6")	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)		9.0 m (30.0 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						3800	2500				
	Rear dozer down (Load over front)	lb						8,380	5,510				
	Rear dozer up (Load over rear)	kg						*4400	2800				
	Rear dozer down (Load over rear)	lb						*9,700	6,170				
	Rear stab down (Load over rear)	kg						*4400	3400				
	2 sets stab down (Load over front)	lb						*9,700	7,500				
	Dozer and stab down (Load over front)	kg						*4400	*4400				
4.5 m (15.0 ft)	Rear dozer up (Load over front)	kg				5400	3600	3700	2400			*2000	
	Rear dozer down (Load over front)	lb				11,910	7,940	8,160	5,290			4,410	
	Rear dozer up (Load over rear)	kg				*6300	4100	*5600	2800			*2000	
	Rear dozer down (Load over rear)	lb				*13,890	9,040	*12,350	6,170			4,410	
	Rear stab down (Load over rear)	kg				*6300	4900	5500	3400			*2000	
	2 sets stab down (Load over front)	lb				*13,890	10,800	12,300	7,500			4,410	
	Dozer and stab down (Load over front)	kg				*6300	*6300	*5600	4900			*2000	
3.0 m (10.0 ft)	Rear dozer up (Load over front)	kg				8100	5200	5100	3300	3600	2300		*2000
	Rear dozer down (Load over front)	lb				17,860	11,460	11,240	7,280	7,940	5,070		4,410
	Rear dozer up (Load over rear)	kg				*9400	6000	*7100	3800	*6000	2700		*2000
	Rear dozer down (Load over rear)	lb				*20,720	13,230	*15,650	8,380	*13,230	5,950		4,410
	Rear stab down (Load over rear)	kg				*9400	7300	*7100	4700	5400	3300		*2000
	2 sets stab down (Load over front)	lb				*20,720	16,090	*15,650	10,360	11,910	7,280		4,410
	Dozer and stab down (Load over front)	kg				*9400	*9400	*7100	6900	*6000	4800		*2000
1.5 m (5.0 ft)	Rear dozer up (Load over front)	kg				7500	4700	4900	3100	3500	2200		*2100
	Rear dozer down (Load over front)	lb				16,540	10,360	10,800	6,830	7,720	4,850		4,630
	Rear dozer up (Load over rear)	kg				*11 200	5400	*8000	3600	6000	2500		*2600
	Rear dozer down (Load over rear)	lb				*24,690	11,910	*17,640	7,940	13,230	5,510		4,190
	Rear stab down (Load over rear)	kg				*11 200	6800	7500	4400	5200	3100		*2600
	2 sets stab down (Load over front)	lb				*24,690	14,990	16,540	9,700	11,460	6,830		5,070
	Dozer and stab down (Load over front)	kg				*11 200	10 500	*8000	6600	*6400	4600		*2600
Ground	Rear dozer up (Load over front)	kg				7200	4400	4700	2900	3400	2100		*2200
	Rear dozer down (Load over front)	lb				15,870	9,700	10,360	6,390	7,500	4,630		4,850
	Rear dozer up (Load over rear)	kg				*11 800	5100	*8500	3400	5800	2400		*2200
	Rear dozer down (Load over rear)	lb				*26,010	11,240	*18,740	7,500	12,790	5,290		4,850
	Rear stab down (Load over rear)	kg				*11 800	6400	7300	4200	5100	3000		*2200
	2 sets stab down (Load over front)	lb				*26,010	14,110	16,090	9,260	11,240	6,610		4,850
	Dozer and stab down (Load over front)	kg				*11 800	8300	*8500	5400	*6600	3800		*2200
-1.5 m (-5.0 ft)	Rear dozer up (Load over front)	kg				*6700	8000	7000	4300	4600	3000		*2500
	Rear dozer down (Load over front)	lb				*19,180	17,640	15,430	9,480	10,140	7,280		5,510
	Rear dozer up (Load over rear)	kg				*6700	*8700	*11 400	5000	*8300	3300		*2500
	Rear dozer down (Load over rear)	lb				*19,180	*19,180	*25,130	11,020	*18,300	7,280		5,510
	Rear stab down (Load over rear)	kg				*6700	*8700	*11 400	6300	7200	4100		*2500
	2 sets stab down (Load over front)	lb				*19,180	*19,180	*25,130	13,890	15,870	9,040		5,510
	Dozer and stab down (Load over front)	kg				*19,180	*19,180	*25,130	22,050	*18,300	13,670		5,510
-3.0 m (-10.0 ft)	Rear dozer up (Load over front)	kg				*14 000	8200	7100	4300	4600	3000		*2500
	Rear dozer down (Load over front)	lb				*30,870	18,080	15,650	9,480	10,140	7,280		4,630
	Rear dozer up (Load over rear)	kg				*14 000	9800	*10 100	5000	*7400	3300		*4600
	Rear dozer down (Load over rear)	lb				*30,870	21,610	*22,270	11,020	*16,310	7,280		5,290
	Rear stab down (Load over rear)	kg				*14 000	12 900	*10 100	6400	7200	4100		*4600
	2 sets stab down (Load over front)	lb				*30,870	28,440	*22,270	14,110	15,870	9,040		6,610
	Dozer and stab down (Load over front)	kg				*14 000	*14 000	*10 100	10 000	*7400	6300		*4600
-4.5 m (-15.0 ft)	Rear dozer up (Load over front)	kg				*10 000	8500	7300	4500	4700	3000		*2500
	Rear dozer down (Load over front)	lb				*22,050	18,740	16,090	9,920	10,360	6,610		4,630
	Rear dozer up (Load over rear)	kg				*10 000	*10 000	*7500	5200	*5000	3500		*2500
	Rear dozer down (Load over rear)	lb				*22,050	*22,050	*16,540	11,460	*11,020	7,720		4,190
	Rear stab down (Load over rear)	kg				*10 000	*10 000	*7500	6500	*5000	4300		*2500
	2 sets stab down (Load over front)	lb				*22,050	*22,050	*16,540	14,330	*11,020	9,480		4,190
	Dozer and stab down (Load over front)	kg				*10 000	*10 000	*7500	*7500	*5000	*5000		*2500

- * 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.

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
- Bottom mounted parallel wiper washer
- 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
- Seat with adjustable mechanical suspension
- Skylight
- Sliding door windows
- Steering column, tiltable
- Storage area suitable for a lunch box
- Sunshade for windshield and skylight

Electrical

- Alternator, 75 amp
- Lights
 - Boom working light
 - Cab interior
 - Roading lights (two front, two rear)
- Maintenance free batteries
- 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
- Muffler
- Fuel Filter
- 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)
- Oil cooler
- Separate swing pump
- Stick regeneration circuit

Undercarriage

- Heavy-Duty axles with advanced disc brake system and travel motor with adjustable braking force
- Oscillating front axle with remote greasing
- Pin-on capability for dozer blade and outriggers
- Tool box in undercarriage
- Tires, 11.00-20 16PR, dual
- Two-piece drive shaft
- Two-speed transmission with manual and automatic gear shifting
- Undercarriage storage box

Other Equipment

- Automatic swing brake
- Caterpillar Datalink and Electronic Technician capability
- Caterpillar Product Link
- Counterweight 3900 kg (8,600 lb)
- 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

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, 5.65 m (18 ft 5 in)

- Material handling boom, 6.80 m (22 ft 3 in)

- Variable adjustable boom (two piece), 5.44 m (17 ft 8 in)

- Bucket linkage with diverter valve

Sticks

- 2.2 m (7 ft 3 in) stick

- 2.5 m (8 ft 2 in) stick

- 2.9 m (9 ft 5 in) stick

- 4.9 m (16 ft 1 in) drop nose stick for MH boom applications

- 5.9 m (19 ft 4 in) Long drop nose stick for MH boom applications

- 4.8 m (15 ft 8 in) straight stick for MH boom applications

Electrical

- Back-up alarm with three selectable modes

- Heavy-duty maintenance free batteries

- Refueling pump

- Roading lights, rear consisting of long life LED modules

- Rotating beacon on cab

- Working lights, cab mounted (front and rear)

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)

Joysticks

- Joysticks with sliding switches, for modulated control of work tool

- Joysticks with buttons for on/off control of work tool

- Lid for storage compartment

Radio

- Radio ready mounting (12 V or 24 V) at rear location including speakers and 12 V converter

- Radio, AM/FM stereo (24V)

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

- 10.00-20 dual solid rubber

- Outriggers, front and/or rear mounted

- Second tool box for undercarriage

- Spacer rings for tires

Other Equipment

- Auto-lube system for the implements and swing gear

- Cat Machine Security System

- Custom paint

- Counterweight 4400 kg (9,700 lb)

- Counterweight 5400 kg (11,905 lb)

- 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

- Ride control, for increased comfort while traveling and working

- Waste package with cyclone air pre-cleaner, reversible fan with programmable time

Notes

M322D Wheel Excavator

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

© 2007 Caterpillar
All Rights Reserved
Printed in U.S.A.

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

AEHQ5757-01 (3-07)

Replaces AEHQ5757

CAT, CATERPILLAR, ACERT, HEES, their respective logos, "Caterpillar Yellow" and the
POWER EDGE trade dress, as well as corporate and product identity used herein,
are trademarks of Caterpillar and may not be used without permission.

CATERPILLAR[®]