

Engine		
Engine Model	Cat® C6.6 AC	ERT™
Net Power	118 kW	158 hp
 Maximum power at 1,8 	00 rpm	
Weights		
Operating Weight	17 600 kg (38	,800 lb)
	to 19 800 kg (43,651 lb)
Transmission		
Maximum Travel Speed	37 km/h	23 mph

M316D Wheel Excavator

The D Series incorporates innovations for improved performance and versatility.

Engine

✓ Caterpillar's exclusive ACERTTM Technology surpasses the most stringent emissions requirements in the construction industry. The 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 ✓ The totally redesigned operator station 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

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



Engine

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



Powerful Performance. The Cat® C6.6 with ACERTTM Technology introduces a series of evolutionary, incremental improvements that provide breakthrough engine performance. The building blocks of ACERT Technology are fuel delivery, air management and electronic control. ACERT Technology optimizes engine performance while meeting U.S. EPA Tier 3 engine emission regulations. The Cat C6.6 engine in the M316D delivers a maximum gross power of 124 kW (166 hp) at a rated speed of 1,800 rpm. This is 15% more horsepower as compared to the 3056E in the M316C.

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.

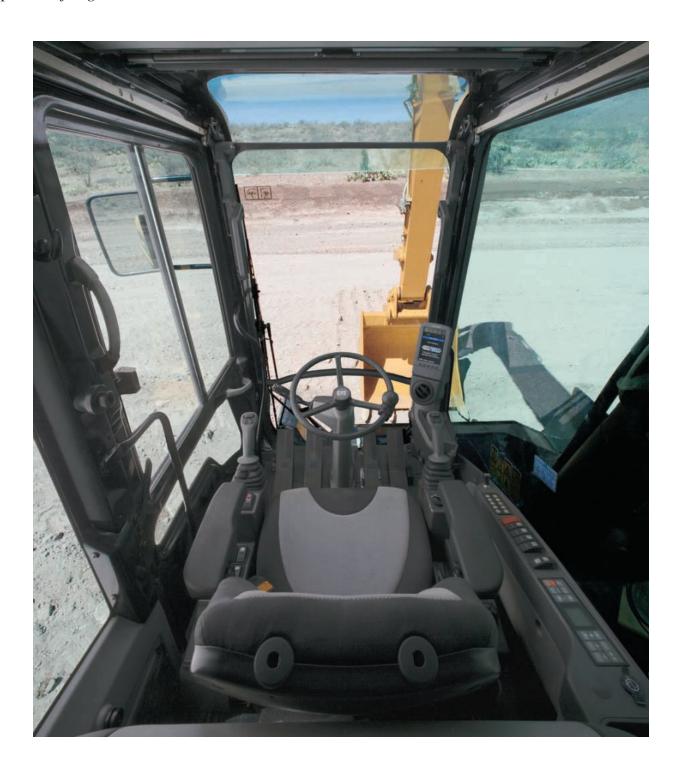
Quick Coupler. The machine can be optionally equipped with a dedicated hydraulic circuit to operate hydraulic quick couplers.

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 XTTM-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 (2.1 m/6 ft 11 in) for maximum breakout force and lifting capability.
- Medium stick (2.4 m/7 ft 10 in) for greater crowd force and lift capacity.
- Long stick (2.6 m/8 ft 6 in) for greater depth and reach requirements.
- Industrial stick (3.1 m/10 ft 2 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 three 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 SeriesTM Ground Engaging Tools.

Hammers. Cat hammer series deliver very high blow rates, increasing the productivity of your tool carriers in demolition and construction applications. Wide oil flow acceptance ranges make the Caterpillar hammers suitable for a wide range of carriers and provide a system solution from one safe source.

Orange Peel Grapples. The Orange Peel Grapple is constructed of high-strength, wear-resistant steel, with a low and compact design that makes it ideal for dump clearance. There are several choices of tine and shell versions.

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

Multi-Processors. Thanks to its single basic housing design, the Multi-Processor series of hydraulic demolition equipment makes it possible to use a range of jaw sets that can handle any demolition job. The Multi-Processor is the most versatile demolition tool on the market.

Vibratory Plate Compactors.

Cat compactors are performance-matched to Cat machines, and integrate perfectly with the Cat hammer line – brackets and hydraulic kits are fully interchangeable between hammers and compactors.

Shears. Cat shears provide superior and effective scrap processing, and are highly productive in demolition environments. Shears are compatible with a matching Cat excavator, and bolt-on brackets are available for either stick or boommounted options.

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.

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.

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.



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 4000 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

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.

operating cost.



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.



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 ValveTM 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 M316D 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 (HEESTM) is formulated to provide excellent high-pressure and high-temperature characteristics, and is fully compatible with all hydraulic components. HEES is fully decomposed by soil or water microorganisms, providing a more environmentally-sound alternative to mineral-based oils.

Fewer Leaks and Spills. Lubricant fillers and drains are designed to minimize spills. Cat O-Ring Face Seals, Cat XTTM Hose and hydraulic cylinders are all designed to help prevent fluid leaks that can reduce the machine performance and cause harm to the environment.

Longer Service Intervals. Working closely with your Caterpillar Dealer can help extend service intervals for engine oil, hydraulic oil, axle oil and coolant. Meaning fewer required fluids and fewer 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 A	ACERT™
Net Power	118 kW	158 hp
Gross Power	124 kW	166 hp
ISO 9249	118 kW	158 hp
EEC 80/1269	118 kW	158 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	785 N⋅m	579 lb ft

• Maximum power at 1,800 rpm

Weights		
Operating Weight	17 600 kg (38,800 lb) to 19 800 kg (43,651 lb)	
VA Boom		
Rear dozer only	17 200 kg	37,919 lb
Rear dozer, front outriggers	18 250 kg	40,234 lb
Front and rear outriggers	18 500 kg	40,785 lb
One-Piece Boom		
Rear dozer only	16 700 kg	36,817 lb
Rear dozer, front outriggers	17 750 kg	39,132 lb
Front and rear outriggers	18 000 kg 39,683 lb	
Offset Boom		
Rear dozer only	17 650 kg	38,912 lb
Rear dozer, front outriggers	18 700 kg	41,226 lb
Front and rear outriggers	18950 kg	41,778 lb
Dozer Blade	740 kg	1,700 lb
Outriggers	1030 kg	2,270 lb
Counterweight	3700 kg	8,157 lb
2.1 m (6'11") stick	470 kg	1,036 lb
2.4 m (7'10") stick	514 kg	1,133 lb
2.6 m (8'6") stick	530 kg	1,168 lb
3.1 m (10'2") Industrial stick	450 kg	992 lb

Swing Mechanism		
Swing Speed	10.5 rpm	
Swing Torque	40 kN⋅m	29,502 lb ft

Cab	
Cab/FOGS option	ISO 10262

Naximum 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	37 000 kPa	5,366 psi
laximum flow		
Implement/travel circuit	250 L/min	66 gal/min
Auxiliary circuit		
high pressure	250 L/min	66 gal/min
medium pressure	50 L/min	13 gal/min
Swing mechanism	80 L/min	21 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	97 kN	21,806 lb
Maximum Gradeability	63 %	

Service Refill Capacities		
Fuel Tank Capacity	310 L	82 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		
Final Drive	2.5 L	.7 gal
Powershift Transmission	2.5 L	.7 gal
Hydraulic Tank	135 L	36 gal
Hydraulic System (including tank)	220 L	58 gal

Tires	
Optional	See Optional Equipment
Standard	10.00-20 dual pneumatic

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)

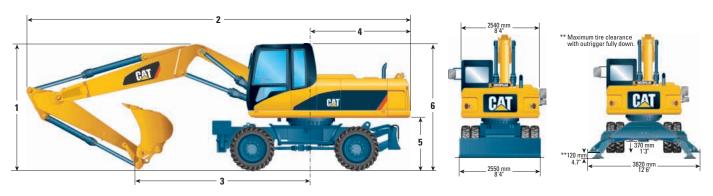
- When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 OCT 98, meets OSHA and MSHA requirements for operator sound exposure limits in effect at time of manufacture.
- Hearing protection may be needed when operating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

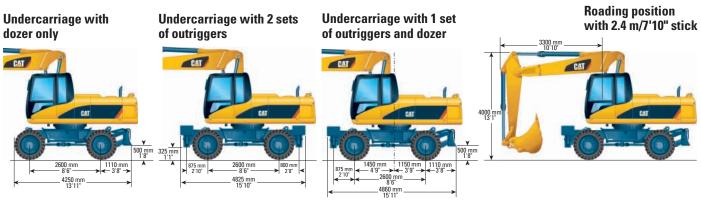
Standards

Brakes	SAE J1026 APR 90
Cab/FOGS	ISO 10262

Dimensions

All dimensions are approximate.



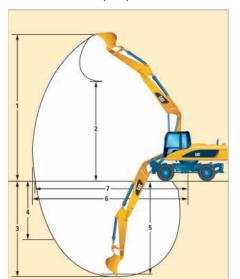


Sti	ick Options	2.1 m	(6'11")	2.4 m	(7'10")	2.6 m	(8'6")		ial Stick (10'2")
		mm	ft/in	mm	ft/in	mm	ft/in	mm	ft/in
1	Shipping Height								
	VA Boom	3170	10'5"	3170	10'5"	3170	10'5"	3330	10'11"
	One-piece Boom	3170	10'5"	3170	10'5"	3170	10'5"	3330	10'11"
	Offset Boom	3170	10'5"	3170	10'5"				
2	Shipping Length								
	VA Boom	8550	28'1"	8550	28'1"	8540	28'0"	8510	27'11"
	One-piece Boom	8390	27'6"	8400	27'7"	8400	27'7"	8405	27'7"
	Offset Boom	8550	28'1"	8540	28'0"				
3	Support Point								
	VA Boom	3910	12'10"	3650	11'12"	3550	11'8"	3630	11'11"
	One-piece Boom	3560	11'8"	3270	10'9"	3150	10'4"	3230	10'7"
	Offset Boom	4020	13'2"	3780	12'5"				
4	Tail Swing Radius								
	VA Boom and	2280	7'6"	2280	7'6"	2280	7'6"	2280	7'6"
	One-piece Boom					2200	7 0	2200	7 0
	Offset Boom	2280	7'6"	2280	7'6"				
5	Counterweight Clearance								
	VA Boom and	1280	4'2"	1280	4'2"	1280	4'2"	1280	4'2"
	One-piece Boom	1200		1200		1200	4 2	1200	4 2
	Offset Boom	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"
	Offset Boom	3170	10'5"	3170	10'5"				

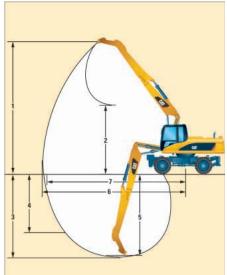
Note: All dimensions are approximate and cab height is without Falling Object Guards.

VA Boom, One-piece and Offset Boom Working Ranges

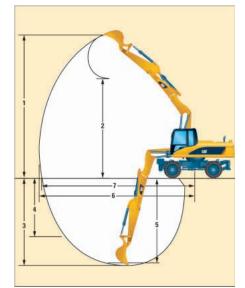
2.1 m (6'11"), 2.4 m (7'10"), 2.6 m (8'6"), 3.1 m (10'2") Sticks



2.1 m (6'11"), 2.4 m (7'10"), 2.6 m (8'6"), 3.1 m (10'2") Sticks



2.1 m (6'11"), 2.4 m (7'10") Sticks



		VA Boom – 5	i.2 m (17'1")		01	ne-piece Boom	– 5.05 m (16'7'	')	Offset Boom -	- 5.2 m (17'1")
				Industrial Stick*				Industrial Stick*		
Stick Length	2.1 m (6'11")	2.4 m (7'10")	2.6 m (8'6")	3.1 m (10'2")	2.1 m (6'11")	2.4 m (7'10")	2.6 m (8'6")	3.1 m (10'2")	2.1 m (6'11")	2.4 m (7'10")
1 Digging Height	10 060 mm (32'0")	10 250 mm (33'8")	10 400 mm (34'2")	8970 mm (29'5")	9000 mm (29'7")	9090 mm (29'10")	9210 mm (30'3")	7720 mm (25'4")	9960 mm (32'8")	10 150 mm (33'4")
2 Dump Height	6970 mm (22'11")	7160 mm (23'6")	7320 mm (24'0")	3980 mm (13'1")	6020 mm (19'9")	6130 mm (20'2")	6250 mm (20'6")	3200 mm (10'6")	7150 mm (23'5")	7340 mm (24'1")
3 Digging Depth	5570 mm (18'3")	5870 mm (19'3")	6070 mm (19'11")	5030 mm (16'6")	5370 mm (17'8")	5670 mm (18'7")	5870 mm (19'3")	4820 mm (15'10")	5450 mm (17'11")	5750 mm (18'11")
4 Vertical Wall Digging Depth	3700 mm (12'2")	3900 mm (12'10")	4070 mm (13'4")	N/A	3490 mm (11'6")	3630 mm (11'11")	3800 mm (12'6")	N/A	4100 mm (13'6")	4320 mm (14'2")
5 Depth 2.5 m (8'2 Straight Clean-u	*	5670 mm (18'7")	5880 mm (19'4")	N/A	5150 mm (16'11")	5470 mm (17'12")	5680 mm (18'8")	N/A	5200 mm (17'1")	5520 mm (18'1")
6 Reach	9100 mm (29'11")	9360 mm (30'9")	9560 mm (31'5")	8370 mm (27'6")	8900 mm (29'3")	9160 mm (30'1")	9350 mm (30'8")	8130 mm (26'8")	8970 mm (29'5")	9240 mm (30'4")
7 Reach at Ground Level	8910 mm (29'3")	9190 mm (30'2")	9380 mm (30'10")	8170 mm (26'10")	8710 mm (28'7")	8970 mm (29'5")	9170 mm (30'1")	7920 mm (25'0")	8780 mm (28'10")	9060 mm (29'9")
Bucket Forces (ISO 6015)	101 kN (22,705 lbf)	101 kN (22,705 lbf)	101 kN (22,705 lbf)	N/A	101 kN (22,705 lbf)	101 kN (22,705 lbf)	101 kN (22,705 lbf)	N/A	101 kN (22,705 lbf)	101 kN (22,705 lbf)
Stick Forces (ISO 6015)	81 kN (18,209 lbf)	74 kN (16,635 lbf)	71 kN (15,961 lbf)	N/A	81 kN (18,209 lbf)	74 kN (16,635 lbf)	71 kN (15,961 lbf)	N/A	81 kN (18,209 lbf)	74 kN (16,635 lbf)

^{*} Industrial Stick has no bucket linkage. All dimensions refer to stick-nose.

Values 1-7 are calculated with bucket and quick coupler with a tip radius of 1552 mm (5'1").

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.

					Varia		djust mm (niece mm (*				
			1	Doze		of:	2 sets stabili owere	zer	and	Dozer stabi owere	lizer		Dozei		of	2 sets stabili owere	zer	and	Dozei stabi owere	lizer
Without quick couple	. . 0.	(mm)			l .	l .				2400			l			l .		l .		1
without quick couple		tick length (ft/in)	p. In.	7.10	8.6.	6.10.	7'10"	8.6.	6.10	7'10"	8.6.	6.10.	7 10	8.6.	6.10.	7.10	8.6.	6.10.	7.10	8.6
Hammers	H100, H115 s																			
Hammers	H120C s				×			×			X			×			X			×
Multiprocessors	MP15	CC, CR, S	X	×	×							×	×	×						
Multiprocessors	IVII 13	PP, PS	X	×	×			×			×	×	×	×			×			X
360° rotatable Shears	S320																			
(boom mounted)	S325		×	×	×							×	×	×						
Sorting & Demo Grapple	G315B	D, R	X	×	×								×	×						
Compactors	CVP75																			
		400 L (0.5 yd3)																		
Orange Peel Grapples	001145	500 L (0.67 yd3)		×	×									×						
(4 tines)	GSH15	600 L (0.75 yd³)	X	×	×							×	×	×						
		800 L (1.00 yd³)	×	×	×							×	×	×						
Not all work tools are avai	lable in all area	as.		36	0° W	orkinç	g Ran	ge			Ma	ximuı	n Ma	terial	densi	ty 180	0 kg/ı	m³ (3,	000 lb	/yd³)
				0 V	er th	e fron	t only				Ma	ximuı	n Ma	terial	densi	ty 120	0 kg/ı	m³ (2,0	000 lb/	/yd³)
										X	Not	Com	patibl	е						

Bucket Specifications

Contact your Caterpillar dealer for special bucket requirements.

Pin-on Buckets

	Width		Weirht		Capacity	(SAE)	No. of Teeth
Bucket Type	mm	in	kg	lb	m³	yd³	
	610	24	384	847	0.34	0.45	3
	762	30	436	963	0.47	0.62	4
	914	36	489	1080	0.61	0.8	5
General Purpose	991	39	569	1257	0.74	0.97	4
·	1067	42	534	1179	0.78	1.02	5
	1219	48	586	1294	0.88	1.15	6
	1295	51	672	1484	1.03	1.35	5
	1397	55	704	1554	1.12	1.47	5
	610	24	445	983	0.44	0.58	3
	762	30	506	1116	0.58	0.76	4
General Purpose Wide Tip	914	36	577	1274	0.76	0.99	5
	1067	42	581	1282	0.92	1.2	6
	1219	48	704	1554	1.07	1.4	7
	610	24	464	1025	0.34	0.45	3
	762	30	539	1190	0.47	0.62	4
Haayay Duty Baak	914	36	614	1355	0.61	0.8	5
Heavy Duty Rock	1067	42	668	1474	0.78	1.02	5
	1219	48	743	1640	0.88	1.15	6
	1295	51	708	1563	1.03	1.35	5
	1524	60	572	1263	0.96	1.25	0
Ditch Cleaning	1676	66	606	1338	1.06	1.38	0
	2007	79	424	935	0.54	0.7	0
	1524	60	634	1400	0.67	0.87	0
Ditch Cleaning Tilt	1803	71	362	800	0.48	0.63	0
	2007	79	392	866	0.54	0.7	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 – 2.1 m (6'11") stick

Stick		Undercarriage		3.0 (10.) m O ft)		5 m 0 ft)	6.0 (20.) m 0 ft)		5 m 0 ft)			
2.1 m (6'11")	2	configuration				Q.						G.		m/ft
Load Point Height Load Radius Over Front	6.0 m (20.0 ft)		kg Ib kg Ib kg Ib kg			*5500 *12,130 *5500 *12,130 *5500 *12,130 *5500 *12,130 *5500 *12,130	4600 10,140 5200 11,460 *5500 *12,130 *5500 *12,130 *5500 *12,130	4600 10,140 *5100 *11,240 *5100 *11,240 *5100 *11,240 *5100 *11,240	2800 6,170 3200 7,060 3900 8,600 *5100 *11,240 4700 10,360					
Over Front or Rear Load Radius Over Side Load at Maximum Reach	4.5 m (15.0 ft)		kg lb kg lb kg lb kg	*6800 *14,990 *6800 *14,990 *6800 *14,990 *6800 *14,990 *6800 *14,990	*6800 *14,990 *6800 *14,990 *6800 *14,990 *6800 *14,990 *6800 *14,990	*6600 *14,550 *6600 *14,550 *6600 *14,550 *6600 *14,550 *6600 *14,550	4500 9,920 5100 11,240 6100 13,450 *6600 *14,550 *6600 *14,550	4600 10,140 *5400 *11,905 *5400 *11,905 *5400 *11,905 *5400 *11,905	2900 6,390 3300 7,280 4000 8,820 *5400 *11,905 4800 10,580			*2600 *5,730 *2600 *5,730 *2600 *5,730 *2600 *5,730 *2600 *5,730	1800 3,970 2100 4,630 *2600 *5,730 *2600 *5,730 *2600 *5,730	7.68 m (25'2")
	3.0 m (10.0 ft)		kg Ib kg Ib kg Ib kg Ib	*8700 *19,180 *8700 *19,180 *8700 *19,180 *8700 *19,180 *8700 *19,180	8000 17,640 *8700 *19,180 *8700 *19,180 *8700 *19,180 *8700 *19,180	7000 15,430 *7800 *17,800 *7800 *17,800 *7800 *17,800 *7800 *17,800	4400 9,700 5000 11,020 6000 13,230 *7800 *17,800 7200 15,870	4600 10,140 *5800 *12,790 *5800 *12,790 *5800 *12,790 *5800 *12,790	2900 6,390 3300 7,280 3900 8,600 *5400 *11,910 4700 10,360	3100 6,830 *4500 *9,920 4200 9,260 *4500 *9,920 *4500 *9,920	1800 3,970 2100 4,630 2600 5,730 3800 8,380 3200 7,060	*2600 *5,730 *2600 *5,730 *2600 *5,730 *2600 *5,730 *2600 *5,730	1600 3,530 1900 4,190 2300 5,070 *2600 *5,730 *2600 *5,730	8.11 m (26'7")
	1.5 m (5.0 ft)		kg Ib kg Ib kg Ib kg Ib	*10 500 *23,149 *10 500 *23,149 *10 500 *23,149 *10 500 *23,149 *10 500 *23,149	7700 16,980 9000 19,840 *10 500 *23,149 *10 500 *23,149 *10 500 *23,149	6900 15,210 *8600 *18,960 *8600 *18,960 *8600 *18,960 *8600 *18,960	4300 9,480 5000 11,020 5900 13,010 8300 18,300 7100 15,650	4600 10,140 *6200 *13,670 *6000 *13,230 *6200 *13,670 *6200 *13,670	2800 6,170 3200 7,060 3900 8,600 *5400 *11,910 4700 10,360	3100 6,830 4800 10,580 4200 9,260 *4900 *10,800 *10,800	1800 3,970 2100 4,630 2600 5,730 3700 8,160 3200 7,060	*2700 *5,950 *2700 *5,950 *2700 *5,950 *2700 *5,950 *2700 *5,950	1600 3,530 1800 3,970 2200 4,850 *2700 *5,950 *2700	8.21 m (26'11")
	Ground	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg Ib kg Ib kg Ib kg	*12 700 *27,999 *12 700 *27,999 *12 700 *27,999 *12 700 *27,999 *12 700 *27,999	7300 16,090 8700 19,180 11 100 24,471 *12 700 *27,999 *12 700 *27,999	7000 15,430 *8700 *19,180 *8700 *19,180 *8700 *19,180 *8700 *19,180	4200 9,260 4800 10,580 5900 13,010 8300 18,300 7200 15,870	4400 9,700 *6300 *13,890 *6100 *13,450 *6300 *13,890 *6300 *13,890	2700 5,950 3100 6,830 3700 8,160 5400 11,910 4600 10,140	3000 6,610 *4200 *9,260 4100 9,040 *4200 *9,260 *4200 *9,260	1700 3,750 2000 4,410 2500 5,510 3700 8,160 3100 6,830	2800 6,170 *2900 *6,390 *2900 *6,390 *2900 *6,390 *2900 *6,390	1600 3,530 1900 4,190 2300 5,070 *2900 *6,390 *6,390	7.99 m (26'2")
* Indicates that the load is limited by hydraulic capacity rather than tipping	-1.5 m (-5.0 ft)		kg Ib kg Ib kg Ib kg Ib	13 800 30,424 *14 100 *31,085 *14 100 *31,085 *14 100 *31,085 *14 100 *31,085	7300 16,090 8600 18,960 11 100 24,471 *14 100 *31,085 14 000 30,865	6900 15,210 *8800 *19,400 *8800 *19,400 *8800 *19,400 *8800 *19,400	4000 8,820 4700 10,360 5700 12,570 8600 18,960 7100 15,650	4300 9,480 *6300 *13,890 *6000 *13,230 *6300 *13,890 *6300 *13,890	2500 5,510 2900 6,390 3600 7,490 5200 11,460 4400 9,700			3100 6,830 *3200 *7,060 *3200 *7,060 *3200 *7,060 *3200 *7,060	1800 3,970 2100 4,630 2600 5,730 *3200 *7,060 *3200 *7,060	7.42 m (24'4")
opacity. 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.	-3.0 m (-10.0 ft)		kg lb kg lb kg lb kg	14 000 30,865 *14 300 *31,526 *14 300 *31,526 *14 300 *31,526 *14 300 *31,526	7400 16,314 8700 19,180 11 200 24,692 *14 300 *31,526 *14 300 *31,526	6700 14,770 8100 17,860 *8100 *17,860 *8100 *8100 *17,860	3800 8,380 4500 9,920 5500 12,125 *8100 *17,860 6900 15,212							

[•] Oscillating axle must be locked.

[•] All values are calculated at the stick-nose.

VA Boom – 2.4 m (7'10") stick

Stick		Undercarriage		3.0 (10.) m 0 ft)		5 m .0 ft)) m 0 ft)		i m 0 ft)			
2.4 m (7'10")		configuration												m/ft
Load Point Height Load Radius Over Front	6.0 m (20.0 ft)	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg lb			*4800 *10,580 *4800 *10,580 *4800 *10,580 *4800 *10,580 *4800 *10,580	4600 10,140 *4800 *10,580 *4800 *10,580 *4800 *10,580 *4800 *10,580	4600 10,140 *4700 *10,360 *4700 *10,360 *4700 *10,360 *4700 *10,360	2900 6,390 3300 7,280 4000 8,820 *4700 *10,360 *10,360					
Over Front or Rear Load Radius Over Side Load at Maximum Reach	4.5 m (15.0 ft)	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg lb	*5100 *11,240 *5100 *11,240 *5100 *11,240 *5100 *11,240 *5100 *11,240	*5100 *11,240 *5100 *11,240 *5100 *11,240 *5100 *11,240 *5100 *11,240	*5600 *12,350 *5600 *12,350 *5600 *12,350 *5600 *12,350 *5600 *12,350	4500 9,920 5100 11,240 *5600 *12,350 *5600 *12,350 *5600 *12,350	4600 10,140 *5300 *11,690 *5300 *11,690 *5300 *11,690 *5300 *11,690	2900 6,390 3300 7,280 4000 8,820 *5300 *11,690 4700 10,360	*3000 *6,610 *3000 *6,610 *3000 *6,610 *3000 *6,610 *3000 *6,610	1900 4,190 2100 4,630 2600 5,730 *3000 *6,610 *3000 *6,610	*2300 *5,070 *2300 *5,070 *2300 *5,070 *2300 *5,070 *2300 *5,070	1700 3,750 2000 4,410 *2300 *5,070 *2300 *5,070 *2300 *5,070	7.97 m (26'1")
	3.0 m (10.0 ft)	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg lb	*9400 *20,720 *9400 *20,720 *9400 *20,720 *9400 *20,720 *9400 *20,720	8000 17,640 9100 20,060 *9400 *20,720 *9400 *20,720 *9400 *20,720	7000 15,430 *7500 *16,540 *7500 *16,540 *7500 *16,540 *7500 *16,540	4400 9,700 5000 11,020 6000 13,230 *7500 *16,540 7100 15,650	4600 10,140 *5600 *12,350 *5600 *12,350 *5600 *12,350 *5600 *12,350	2900 6,390 3300 7,280 3900 8,600 *5400 *11,910 4700 10,360	3100 6,830 *4500 *9,920 4300 9,480 *4500 *9,920 *4500 *9,920	1900 4,190 2100 4,630 2600 5,730 3800 8,380 3200 7,060	*2300 *5,070 *2300 *5,070 *2300 *5,070 *2300 *5,070 *2300 *5,070	1500 3,310 1800 3,970 2200 4,850 *2300 *5,070 *2300 *5,070	8.38 m (27'5")
	1.5 m (5.0 ft)		kg lb kg lb kg lb kg lb	*10 700 *23,590 *10 700 *23,590 *10 700 *23,590 *10 700 *23,590 *10 700 *23,590	7800 17,800 8900 19,620 *10 700 *23,590 *10 700 *23,590 *10 700 *23,590	6900 15,210 *8500 *18,740 *8500 *18,740 *8500 *18,740 *8500 *18,740	4300 9,480 5000 11,020 5900 13,010 *8300 *18,300 7100 15,650	4600 10,140 *6200 *13,670 6000 13,230 *6200 *13,670 *6200 *13,670	2900 6,390 3300 7,280 3900 8,600 5400 11,910 *4700 *10,360	3100 6,830 *4800 *10,580 4200 9,260 *4800 *10,580 *10,580	1800 3,970 2100 4,630 2600 5,732 3800 8,378 3200 7,055	*2400 *5,291 *2400 *5,291 *2400 *5,291 *2400 *5,291 *2400 *5,291	1500 3,310 1700 3,750 2100 4,630 *2400 *5,291 *2400 *5,291	8.47 m (27'9")
	Ground	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg lb	*12 500 *27,558 *12 500 *27,558 *12 500 *27,558 *12 500 *27,558 *12 500 *27,558	7600 16,760 8900 19,620 11 200 24,692 *12 500 *27,558 *12 500 *27,558	6900 15,210 *8600 *18,960 *8600 *18,960 *8600 *8600 *18,960 *18,960	4200 9,260 4800 10,580 5900 13,010 8300 18,300 *7100 *15,650	4400 9,700 *6200 *13,670 6000 13,230 *6200 *13,670 *6200 *13,670	2700 5,950 3100 6,830 3800 8,380 5400 11,910 4600 10,140	3000 6,610 *4700 *10,360 4100 9,040 *4700 *10,360 *4700 *10,360	1800 3,970 2000 4,410 2500 5,510 3700 8,160 3100 6,830	*2500 *5,510 *2500 *5,510 *2500 *5,510 *2500 *5,510 *2500 *5,510	1500 3,310 1800 3,970 2200 4,850 *2500 *5,510 *2500 *5,510	8.26 m (27'1")
* Indicates that the load is limited by hydraulic capacity rather than tipping	-1.5 m (-5.0 ft)	(Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg lb	13 600 29,983 *14 000 *30,865 *14 000 *30,865 *14 000 *30,865 *14 000 *30,865	7300 16,090 8600 18,960 11 100 24,471 *14 000 *30,865 13 900 30,644	6900 15,210 *8800 *19,400 *8800 *19,400 *8800 *19,400 *8800 *19,400	4000 8,820 4600 10,140 5700 12,570 *8400 *18,520 7100 15,650	4300 9,480 *6300 *13,890 6000 13,230 *6300 *13,890 *6300 *13,890	2500 5,510 2900 6,390 3600 7,940 5300 11,690 4400 9,700			*2900 *6,390 *2900 *6,390 *2900 *6,390 *6,390 *2900 *6,390 *6,390	1700 3,750 1900 4,190 2400 5,290 *2900 *6,390 *2900 *6,390	7.72 m (25'3")
capacity. Lift capacity rating than upping 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.	-3.0 m (-10.0 ft)	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg lb	13 900 30,644 *14 400 *31,747 *14 400 *31,747 *14 400 *31,747	7300 16,090 8600 18,960 11 100 24,471 *14 400 *31,747 14 300 31,526	6700 14,770 8700 19,180 *8700 *19,180 *8700 *19,180 *8700 *19,180	3900 8,600 4500 9,920 5500 12,130 8400 18,520 6900 15,210	4200 9,260 *4600 *10,140 *4600 *10,140 *4600 *10,140	2400 5,290 2800 6,170 3500 7,720 *4600 *10,140 4300 9,480					

M316D Wheel Excavator specifications

VA Boom – 2.6 m (8'6") stick

Stick		Undercarriage		3.0 (10.		4.5 (15.	i m O ft)) m 0 ft)	7.5 (25.	m O ft)	•		
2.6 m (8'6")		configuration							F	Į.		Į,		m/ft
Load Point Height Load Radius	6.0 m (20.0 ft)	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg lb			*4300 *9,480 *4300 *9,480 *4300 *9,480 *4300 *9,480 *4300 *9,480	*4300 *9,480 *4300 *9,480 *4300 *9,480 *4300 *9,480 *4300 *9,480	*4400 *9,700 *4400 *9,700 *4400 *9,700 *4400 *9,700 *4400 *9,700	2900 6,390 3300 7,280 4000 8,820 *4400 *9,700 *4400					
Over Front or Rear Load Radius Over Side Load at Maximum Reach	4.5 m (15.0 ft)	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg lb			*5000 *11,020 *5000 *11,020 *5000 *11,020 *5000 *11,020 *5000 *11,020	4500 9,920 *5000 *11,020 *5000 *11,020 *5000 *11,020 *5000 *11,020	4600 10,140 *5000 *11,020 *5000 *11,020 *5000 *11,020 *5000 *11,020	2900 6,390 3300 7,280 4000 8,820 *5000 *11,020 4800 10,580	3200 7,060 *3600 *7,940 *3600 *7,940 *3600 *7,940 *3600 *7,940	1900 4,190 2200 4,850 2700 5,950 *3600 *7,940 3300 7,280	*2100 *4,630 *2100 *4,630 *2100 *4,630 *2100 *4,630 *2100 *4,630	1700 3,750 1900 4,190 *2100 *4,630 *2100 *4,630 *2100 *4,630	8.18 m (28'10")
	3.0 m (10.0 ft)	(Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg lb	*9300 *20,500 *9300 *20,500 *9300 *20,500 *9300 *20,500 *9300 *20,500	8000 17,640 9200 20,280 *9300 *20,500 *9300 *9300 *20,500	7000 15,430 *7400 *16,310 *7400 *16,310 *7400 *16,310 *7400 *16,310	4400 9,700 5000 11,020 6000 13,230 *7400 *16,310 7200 15,870	4600 10,140 *5600 *12,350 *5600 *12,350 *5600 *12,350 *5600 *12,350	2900 6,390 3300 7,280 3900 8,600 *5400 *11,910 4700 10,360	3200 7,060 *4600 *10,140 4300 9,480 *4600 *10,140 *4600 *10,140	1900 4,190 2200 4,850 2700 5,950 3800 8,380 3300 7,280	*2100 *4,630 *2100 *4,630 *2100 *4,630 *2100 *4,630 *2100 *4,630	1500 3,310 1700 3,750 *2100 *4,630 *2100 *4,630 *2100 *4,630	8.58 m (28'1")
	1.5 m (5.0 ft)	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb g lb kg lb kg lb	*10 600 *23,369 *10 600 *23,369 *10 600 *23,369 *10 600 *23,369 *10 600 *23,369	7800 17,800 8900 19,620 *10 600 *23,369 *10 600 *23,369 *10 600 *23,369	6900 15,210 *8400 *18,520 *8400 *18,520 *8400 *18,520 *8400 *18,520	4300 9,480 4900 10,800 *5900 *13,010 8300 18,300 7100 15,650	4600 10,140 *6100 *13,450 6000 13,230 *6100 *13,450 *6100 *13,450	2900 6,390 3300 7,280 3900 8,600 5400 11,910 4700 10,360	3100 6,830 *4800 *10,580 4200 9,260 *4800 *10,580 *4800 *10,580	1800 3,970 2100 4,630 2600 5,730 3800 8,380 3200 7,060	*2200 *4,850 *2200 *4,850 *2200 *4,850 *2200 *4,850 *2200 *4,850	1400 3,090 1700 3,750 2000 4,410 *2200 *4,850 *2200 *4,850	8.67 m (28'8")
	Ground	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg Ib kg Ib kg Ib kg Ib	*12 200 *26,896 *12 200 *26,896 *12 200 *26,896 *12 200 *26,896 *12 200 *26,896	7600 16,760 9000 19,840 11 100 24,471 *12 200 *26,896 *12 200 *26,896	6900 15,210 *8600 *18,960 *8600 *18,960 *18,960 *8600 *18,960	4200 9,260 4800 10,580 5900 13,010 *8200 *18,080 7100 15,650	4500 9,920 *6200 *13,670 6000 13,230 *6200 *13,670 *6200 *13,670	2700 5,950 3100 6,830 3800 8,380 5500 12,130 4600 10,140	3000 6,610 4800 10,580 4200 9,260 *4800 *10,580 *4800 *10,580	1800 3,970 2100 4,630 2500 5,510 3700 8,160 3100 6,830	*2300 *5,070 *2300 *5,070 *2300 *5,070 *2300 *5,070 *2300 *5,070	1400 3,090 1700 3,750 2100 4,630 *2300 *5,070 *2300 *5,070	8.46 m (27'9")
		Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg lb	13 500 29,762 *14 000 *30,865 *14 000 *30,865 *14 000 *30,865 *14 000 *30,865	7300 16,090 8600 18,960 11 100 24,471 *14 000 *30,865 13 800 30,424	6900 15,210 *8700 *19,180 *8700 *19,180 *8700 *19,180 *8700 *19,180	4000 8,820 4700 10,360 5700 12,570 *8400 *8,520 7100 15,650	4300 9,480 *6300 *13,890 6000 13,230 *6300 *13,890 *6300 *13,890	2500 5,510 2900 6,390 3600 7,940 5300 11,690 4400 9,700	3000 6,610 *3300 *7,280 *3300 *7,280 *3300 *7,280 *3300 *7,280	1700 3,750 2000 4,410 2500 5,510 *3300 *7,280 3100 6,830	*2600 *5,730 *2600 *5,730 *2600 *5,730 *2600 *5,730 *2600 *5,730	1600 3,530 1900 4,190 2300 5,070 *2600 *5,730 *2600 *5,730	7.94 m (26'0")
* Indicates that the load is limited by hydraulic capacity rather than tipping	-3.0 m (-10.0 ft)		kg lb kg lb kg lb kg lb	13 900 30,644 *14 400 *31,747 *14 400 *31,747 *14 400 *31,747 *14 400 *31,747	7200 15,870 8600 18,960 11 000 24,251 *14 400 *31,747 14 200 31,306	6700 14,770 *8900 *19,620 *8900 *19,620 *8900 *19,620 *8900 *19,620	3900 8,600 4500 9,920 5600 12,350 8400 18,520 6900 15,210	4200 9,260 *5200 *11,460 *5200 *11,460 *5200 *11,460 *5200 *11,460	2400 5,290 2800 6,170 3500 7,720 5200 11,460 4300 9,480					
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.	-4.5 m (-15.0 ft)	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg lb	10 100 22,267 *10 100 *22,267 *10 100 *22,267 *10 100 *22,267	7200 15,870 8500 18,740 *10 100 *22,267 *10 100 *22,267 *10 100 *22,267									

[•] Oscillating axle must be locked.

[•] All values are calculated at the stick-nose.

One-piece Boom – 2.1 m (6'11") stick

Stick		Undercarriage		3.0 (10.		4.5 (15.		6.0 (20.			i m 0 ft)	6		**
2.1 m (6'11")		configuration							æ	Ü,		Į.	æ	m/ft
Load Point Height Load Radius Over Front	6.0 m (20.0 ft)	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg lb					*4400 *9,700 *4400 *9,700 *4400 *9,700 *4400 *9,700 *4400 *9,700	2800 6,170 3200 7,060 3900 8,600 *4400 *9,700 *4400					
or Rear Load Radius Over Side Load at Maximum Reach	4.5 m (15.0 ft)	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg b kg b kg b kg b			*6300 *13,890 *6300 *13,890 *6300 *13,890 *6300 *13,890 *6300 *13,890	4400 9,700 5000 11,020 6100 13,450 *6300 *13,890 *6300 *13,890	4500 9,920 *5400 *11,910 *5400 *11,910 *5400 *11,910 *5400 *11,910	2800 6,170 3200 7,060 3800 8,380 *5400 *11,910 4700 10,360			*2600 *5,730 *2600 *5,730 *2600 *5,730 *2600 *5,730 *2600 *5,730	2000 4,410 2300 5,070 *2600 *5,730 *2600 *5,730 *2600 *5,730	7.46 m (24'5")
	3.0 m (10.0 ft)	(Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg lb			6900 15,210 *7600 *16,760 *7600 *16,760 *7600 *7600 *16,760 *16,760	4100 9,040 4700 10,360 5700 12,570 *7600 *16,760 7100 15,650	4400 9,700 *5800 *12,790 *5800 *12,790 *5800 *12,790 *5800 *12,790	2700 5,950 3100 6,830 3700 8,160 5400 11,910 4500 9,920			*2600 *5,730 *2600 *5,730 *2600 *5,730 *2600 *5,730 *2600 *5,730	1800 3,970 2000 4,410 2400 5,290 *2600 *5,730 *2600 *5,730	7.91 m (25'11")
	1.5 m (5.0 ft)	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg 15 kg 15 kg 15 kg 15			6600 14,550 *8600 *18,960 *8600 *18,960 *8600 *8600 *18,960	3800 8,380 4400 9,700 5400 11,910 8200 18,080 6800 14,990	4300 9,480 *6300 *13,890 6000 13,230 *6300 *13,890 *6300 *13,890	2500 5,510 2900 6,390 3600 7,940 5200 11,460 4400 9,700	3100 6,830 *3900 *8,600 *3900 *8,600 *3900 *3900 *8,600	1800 3,970 2100 4,630 2600 5,730 3700 8,160 3200 7,060	2700 5,950 2700 5,950 *2700 *5,950 *2700 *5,950 *2700 *5,950	1700 3,750 1900 4,190 2400 5,290 *2700 *5,950 *2700 *5,950	8.01 m (26'3")
	Ground	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg b kg b kg b kg b			6400 14,110 *8800 *19,401 *8800 *19,401 *8800 *19,401 *8800 *19,401	3700 8,160 4200 9,260 5300 11,690 8000 17,640 6600 14,550	4200 9,260 *6400 *14,110 5800 12,790 *6400 *14,110 *6400 *14,110	2500 5,510 2800 6,170 3500 7,720 5100 11,240 4300 9,480			*2900 *6,390 *2900 *6,390 *2900 *6,390 *2900 *6,390 *2900 *6,390	1700 3,750 2000 4,410 2400 5,290 *2900 *6,390 *2900 *6,390	7.78 m (25'6")
* Indicates that the load is limited by hydraulic capacity rather than tipping	-1.5 m (-5.0 ft)	(Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg Ib kg Ib kg Ib kg Ib	*8000 *17,640 *8000 *17,640 *8000 *17,640 *8000 *17,640 *8000	6600 14,550 7900 17,420 *8000 *17,640 *8000 *17,640 *17,640	6300 13,890 *8000 *17,640 *8000 *17,640 *8000 *17,640	3600 7,940 4200 9,260 5200 11,460 8000 17,640 6600 14,550	4100 9,040 *5800 *12,790 *5800 *12,790 *5800 *12,790 *5800 *12,790	2400 5,290 2800 6,170 3500 7,720 5100 11,240 4300 9,480			3200 7,060 *3400 *7,500 *3400 *7,500 *3400 *7,500 *3400 *7,500	1900 4,190 2200 4,850 2700 5,950 *3400 *7,500 3300 7,280	7.20 m (23'7")
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.	-3.0 m (-10.0 ft)	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg lb kg	*8300 *18,300 *8300 *18,300 *8300 *18,300 *8300 *18,300 *18,300	6800 14,990 8100 17,860 *8300 *18,300 *8300 *18,300 *18,300	*6200 *13,670 *6200 *13,670 *6200 *13,670 *6200 *13,670 *6200 *13,670	3700 8,160 4300 9,480 5300 11,690 *6200 *13,670 *6200 *13,670							

M316D Wheel Excavator specifications

One-piece Boom – 2.4 m (7'10") stick

Stick 2.4 (7/10/1)		Undercarriage		3.0 (10.		4.5 (15.	i m O ft)	6.0 (20.		7.5 (25.		6		
2.4 m (7'10")	2	configuration					Œ					J.		m/ft
Load Point Height Load Radius Over Front	6.0 m (20.0 ft)		kg lb kg lb kg lb kg lb					*4400 *9,700 *4400 *9,700 *4400 *9,700 *4400 *9,700 *4400 *9,700	2800 6,170 3200 7,060 3900 8,600 *4400 *9,700 *4400					
Over Front or Rear Load Radius Over Side Load at Maximum Reach	4.5 m (15.0 ft)		KG B KG B KG B KG B					4500 9,920 *5100 *11,240 *5100 *11,240 *5100 *5100 *11,240	2800 6,170 3200 7,060 3900 8,600 *5100 *11,240 4700 10,360			*2300 *5,070 *2300 *5,070 *2300 *5,070 *2300 *5,070 *2300 *5,070	1900 4,190 2100 4,630 *2300 *5,070 *2300 *5,070 *2300 *5,070	7.74 m (25'4")
	3.0 m (10.0 ft)		kg lb kg lb kg lb kg lb kg lb			6900 15,210 *7300 *16,090 *7300 *16,090 *7300 *16,090 *7300 *16,090	4100 9,040 4700 10,360 5800 12,790 *7300 *16,090 7100 15,650	4400 9,700 *5700 *12,570 *5700 *12,570 *5700 *12,570 *5700 *12,570	2700 5,950 3100 6,830 3700 8,160 5400 11,910 4600 10,140	3100 6,830 *4000 *8,820 *4000 *8,820 *4000 *8,820 *4000 *8,820	1900 4,190 2100 4,630 2600 5,730 3800 8,380 3200 7,060	*2300 *5,070 *2300 *5,070 *2300 *5,070 *2300 *5,070 *2300 *5,070	1700 3,750 1900 4,190 *2300 *5,070 *2300 *5,070 *2300 *5,070	8.17 m (26'9")
	1.5 m (5.0 ft)		kg lb kg lb kg lb kg lb kg lb			6600 14,550 *8400 *18,520 *8400 *18,520 *8400 *18,520 *8400 *18,520	3800 8,380 4400 9,700 5500 12,130 8200 18,080 6800 14,990	4300 9,480 *6200 *13,670 6000 13,230 *6200 *13,670 *6200 *13,670	2500 5,510 2900 6,390 3600 7,940 5200 11,460 4400 9,700	3000 6,610 4800 10,580 4200 9,260 *4800 *10,580 *4800 *10,580	1800 3,970 2100 4,630 2600 5,730 3700 8,160 3200 7,060	*2400 *5,290 *2400 *5,290 *2400 *5,290 *2400 *5,291 *2400 *5,291	1600 3,530 1800 3,970 2200 4,850 *2400 *5,291 *2400 *5,291	8.27 m (27'1")
	Ground	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg lb	*4000 *8,820 *4000 *8,820 *4000 *8,820 *4000 *8,820 *4000 *8,820	*4000 *8,820 *4000 *8,820 *4000 *8,820 *4000 *8,820 *4000 *8,820	6400 14,110 *8800 *19,400 *8800 *19,400 *8800 *19,400 *8800 *19,400	3600 7,940 4200 9,260 5300 11,690 8000 17,640 6600 14,550	4100 9,040 *6300 *13,890 5800 12,790 *6300 *13,890 *13,890	2400 5,290 2800 6,170 3500 7,720 5100 11,240 4300 9,480	3000 6,610 *4100 *9,040 *4100 *9,040 *4100 *9,040 *4100 *9,040	1800 3,970 2100 4,630 2500 5,510 3700 8,160 3100 6,830	*2600 *5,730 *2600 *5,730 *2600 *5,730 *2600 *5,730 *2600 *5,730	1600 3,530 1900 4,190 2300 5,070 *2600 *5,730 *2600 *5,730	8.05 m (26'4")
* Indicates that the load is limited by hydraulic capacity rather than tipping	-1.5 m (-5.0 ft)	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	영요 영요 영요 영요	*7800 *17,800 *7800 *17,800 *7800 *17,800 *7800 *17,800 *7800 *17,800	6600 14,550 *7800 *17,800 *7800 *17,800 *7800 *17,800 *7800 *17,800	6300 13,890 *8200 *18,080 *8200 *18,080 *8200 *18,080 *8200 *18,080	3600 7,940 4200 9,260 5200 11,460 7900 17,420 6500 14,330	4100 9,040 *6000 *13,230 5800 12,790 *6000 *13,230 *6000 *13,230	2400 5,290 2800 6,170 3400 7,500 5100 11,240 4300 9,480			*3000 *6,610 *3000 *6,610 *3000 *6,610 *3000 *6,610 *3000 *6,610	1800 3,970 2100 4,630 2500 5,510 *3000 *6,610 *3000	7.49 m (24'6")
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.	-3.0 m (-10.0 ft)	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg b kg b kg b kg b	*9200 *20,280 *9200 *20,280 *9200 *20,280 *9200 *20,280 *9200 *20,280	6700 14,770 8000 17,640 *9200 *20,280 *9200 *20,280 *9200 *20,280	6400 14,110 *6700 *14,770 *6700 *14,770 *6700 *14,770 *6700 *14,770	3600 7,940 4200 9,260 5300 11,690 *6700 *14,770 6600 14,550	4200 9,260 *4400 *9,700 *4400 *9,700 *4400 *9,700 *9,700	2500 5,510 2800 6,170 3500 7,720 *4400 *9,700 4300 9,480					

M316D Wheel Excavator specifications

One-piece Boom – 2.6 m (8'6") stick

Stick		Undercarriage		3.0 (10.		4.5 (15.		6.0 (20.			i m 0 ft)	6		1
2.6 m (8'6")		configuration		G.		l L				J.		Ū-		m/ft
Load Point Height Load Radius Over Front	6.0 m (20.0 ft)	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg lb					*4200 *9,260 *4200 *9,260 *4200 *9,260 *4200 *9,260 *4200 *9,260	2900 6,390 3300 7,280 3900 8,600 *4200 *9,260 *9,260					
or Rear Load Radius Over Side Load at Maximum Reach	4.5 m (15.0 ft)	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg b kg b kg b kg b					4600 10,140 *5000 *11,020 *5000 *11,020 *5000 *11,020 *5000 *11,020	2800 6,170 3200 7,060 3900 8,600 *5000 *11,020 4700 10,360	*2500 *5,510 *2500 *5,510 *2500 *5,510 *2500 *5,510 *2500 *5,510	1900 4,190 *2500 *5,510 *2500 *5,510 *2500 *5,510 *2500 *5,510	*2100 *4,630 *2100 *4,630 *2100 *4,630 *2100 *4,630 *2100 *4,630	1800 3,970 2000 4,410 *2100 *4,630 *2100 *4,630 *2100 *4,630	7.95 m (26'0")
	3.0 m (10.0 ft)	(Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg			7000 15,430 *7100 *15,650 *7100 *15,650 *7100 *15,650 *7100	4200 9,260 4800 10,580 5800 12,790 *7100 *15,650 *7100	4400 9,700 *5500 *12,130 *5500 *12,130 *5500 *12,130 *5500 *12,130	2700 5,950 3100 6,830 3700 8,160 5400 11,910 4600 10,140	3100 6,830 *4200 *9,260 *4200 *9,260 *4200 *9,260 *4200 *9,260	1900 4,190 2200 4,850 2600 5,730 3800 8,380 3200 7,060	*2100 *4,630 *2100 *4,630 *2100 *4,630 *2100 *4,630 *2100 *4,630	1600 3,530 1800 3,970 *2100 *4,630 *2100 *4,630 *2100 *4,630	8.36 m (27'5")
	1.5 m (5.0 ft)	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg 15 kg 15 kg 15 kg 15			6600 14,550 *8300 *18,300 *8300 *18,300 *8300 *8300 *18,300	3800 8,380 4400 9,700 5500 12,130 *8300 *18,300 6800 14,990	4300 9,480 *6100 *13,450 6000 13,230 *6100 *13,450 *6100 *13,450	2600 5,730 2900 6,390 3600 7,940 5200 11,460 4400 9,700	3100 6,830 4800 10,580 4200 9,260 *4900 *10,800 *10,800	1800 3,970 2100 4,630 2600 5,730 3700 8,160 3200 7,060	*2200 *4,850 *2200 *4,850 *2200 *4,850 *2200 *4,850 *2200 *4,850	1500 3,310 1800 3,970 *2200 *4,850 *2200 *4,850 *2200 *4,850	8.46 m (27'9")
	Ground	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg lb	*4200 *9,260 *4200 *9,260 *4200 *9,260 *4200 *9,260 *4200 *9,260	*4200 *9,260 *4200 *9,260 *4200 *9,260 *4200 *9,260 *4200 *9,260	6400 14,110 *8800 *19,400 *8800 *19,400 *8800 *19,400 *8800 *19,400	3700 8,160 4200 9,260 5300 11,690 8000 17,640 6600 14,550	4200 9,260 *6300 *13,890 5800 12,790 *6300 *13,890 *6300 *13,890	2400 5,290 2800 6,170 3500 7,720 5100 11,240 4300 9,480	3000 6,610 4700 10,360 4100 9,040 *4800 *10,580 *4800 *10,580	1800 3,970 2000 4,410 2500 5,510 3700 8,160 3100 6,830	*2400 *5,290 *2400 *5,290 *2400 *5,290 *2400 *5,290 *2400 *5,290	1600 3,530 1800 3,970 2200 4,850 *2400 *5,290 *2400 *5,290	8.25 m (27'0")
* Indicates that the load is limited by hydraulic capacity rather than tipping	-1.5 m (-5.0 ft)	(Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg Ib kg Ib kg Ib kg Ib	*7500 *16,540 *7500 *16,540 *7500 *16,540 *7500 *16,540 *7500 *16,540	6500 14,330 *7500 *16,540 *7500 *16,540 *7500 *16,540 *7500 *16,540	6300 13,890 *8400 *18,520 *8400 *18,520 *8400 *18,520 *8400 *18,520	3600 7,940 4200 9,260 5200 11,460 7900 17,420 6500 14,330	4100 9,040 *6000 *13,230 5800 12,790 *6000 *13,230 *6000 *13,230	2400 5,290 2800 6,170 3400 7,500 5100 11,240 4200 9,260			*2800 *6,170 *2800 *6,170 *2800 *6,170 *2800 *6,170 *2800 *6,170	1700 3,750 2000 4,410 2400 5,290 *2800 *6,170 *2800 *6,170	7.70 m (25'3")
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.	-3.0 m (-10.0 ft)	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg lb kg	*9700 *21,390 *9700 *21,390 *9700 *21,390 *9700 *21,390 *9700 *21,390	6700 14,770 7900 17,420 *9700 *21,390 *9700 *21,390 *21,390	6400 14,110 *6900 *15,210 *6900 *15,210 *6900 *15,210 *6900 *15,210	3600 7,940 4200 9,260 5200 11,460 *6900 *15,210 6600 14,550	4100 9,040 *4800 *10,580 *4800 *10,580 *4800 *10,580 *4800 *10,580	2400 5,290 2800 6,170 3500 7,720 *4800 *10,580 4300 9,480					

Offset Boom – 2.1 m (6'11") stick

Stick 2.1 m (6/11/1)		Undercarriage		3.0 (10.		(15.	m Oft)	(20.) m 0 ft)	7.5 (25.		6		2
2.1 m (6'11")		configuration										Ø.		m/ft
Load Point Height Load Radius Over Front	6.0 m (20.0 ft)	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg Ib kg Ib kg Ib kg Ib			*5500 *12,130 *5500 *12,130 *5500 *12,130 *5500 *12,130 *5500 *12,130	4600 10,140 5200 11,460 *5500 *12,130 *5500 *12,130 *5500 *12,130	4500 9,920 *5100 *11,240 *5100 *11,240 *5100 *11,240 *5100 *11,240	2700 5,950 3100 6,830 3800 8,380 *5100 *11,240 4700 10,360					
Over Front or Rear Load Radius Over Side Load at Maximum Reach	4.5 m (15.0 ft)	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg lb	*6900 *15,210 *6900 *15,210 *6900 *15,210 *6900 *15,210 *6900 *15,210	*6900 *15,210 *6900 *15,210 *6900 *15,210 *6900 *15,210 *6900 *15,210	*6500 *14,330 *6500 *14,330 *6500 *14,330 *6500 *14,330 *6500 *14,330	4500 9,920 5100 11,240 6100 13,450 *6500 *14,330 *6500 *14,330	4600 10,140 *5300 *11,680 *5300 *11,680 *5300 *11,680 *5300 *11,680	2800 6,170 3200 7,060 3900 8,600 *5300 *11,680 4700 10,360			*2300 *5,070 *2300 *5,070 *2300 *5,070 *2300 *5,070 *2300 *5,070	1700 3,750 2000 4,410 *2300 *5,070 *2300 *5,070 *2300 *5,070	7.70 m (25'3")
	3.0 m (10.0 ft)	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg b kg b kg b kg b	*7900 *17,420 *7900 *17,420 *7900 *17,420 *7900 *17,420 *7900 *17,420	*7900 *17,420 *7900 *17,420 *7900 *17,420 *7900 *17,420 *7900 *17,420	6900 15,210 *7600 *16,760 *7600 *16,760 *7600 *7600 *16,760	4300 9,480 5000 11,020 5900 13,010 *7600 *16,760 7000 15,430	4500 9,920 *5700 *12,570 *12,570 *5700 *12,570 *5700 *12,570	2800 6,170 3200 7,060 3900 8,600 *5300 *11,680 4600 10,140	3000 6,610 *4400 *9,700 4200 9,260 *4400 *9,700 *4400	1700 3,750 2000 4,410 2500 5,510 3700 8,160 3100 6,830	*2300 *5,070 *2300 *5,070 *2300 *5,070 *2300 *5,070 *2300 *5,070	1500 3,310 1800 3,970 2200 4,850 *2300 *5,070 *5,070	8.12 m (26'8")
	1.5 m (5.0 ft)	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg b kg b kg b kg b	*10 300 *22,710 *10 300 *22,710 *10 300 *22,710 *10 300 *22,710 *10 300 *22,710	7600 16,760 8900 19,620 *10 300 *22,710 *10 300 *22,710 *10 300 *22,710	6800 14,990 *8300 *18,300 *8300 *18,300 *8300 *8300 *8300 *18,300	4300 9,480 4900 10,800 5800 12,790 *8100 *17,860 7000 15,430	4500 9,920 *6000 *13,230 5900 13,010 *6000 *13,230 *6000 *13,230	2700 5,950 3100 6,830 3800 8,380 *5300 *11,680 4600 10,140	2900 6,390 *4700 *10,360 4100 9,040 *4700 *10,360 *4700 *10,360	1700 3,750 1900 4,190 2400 5,290 3600 7,940 3000 6,610	*2300 *5,070 *2300 *5,070 *2300 *5,070 *2300 *5,070 *2300 *5,070	1400 3,090 1700 3.750 2100 4,630 *2300 *5,070 *2300 *5,070	8.22 m (27'0")
	Ground	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg Ib kg Ib kg Ib kg Ib	*12 600 *27,780 *12 600 *27,780 *12 600 *27,780 *12 600 *27,780 *12 600 *27,780	7100 15,650 8400 18,520 10,900 24,030 *12,600 *27,780 *12,600 *27,780	6900 15,210 *8400 *18,520 *8400 *18,520 *8400 *18,520 *8400 *18,520	4100 9,040 4700 10,360 5800 12,790 *8100 *17,860 7100 15,650	4300 9,480 *6100 *13,450 6000 13,230 *6100 *13,450 *6100 *13,450	2500 5,510 2900 6,390 3600 7,940 5300 11,680 4500 9,920	2900 6,390 *4000 *8,820 *4000 *8,820 *4000 *8,820 *4000 *8,820	1600 3,530 1900 4,190 2400 5,290 3500 7,720 3000 6,610	*2500 *5,510 *2500 *5,510 *2500 *5,510 *2500 *5,510 *2500 *5,510	1500 3,310 1700 3,750 2200 4,850 *2500 *5,510 *2500 *5,510	8.00 m (26'3")
* Indicates that the load is limited by	-1.5 m (-5.0 ft)	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg b kg b kg b kg b	13 500 29,760 *13 700 *30,200 *13 700 *30,200 *13 700 *30,200 *13 700 *30,200	7000 15,430 8400 18,520 10 900 24,030 *13 700 *30,200 *30,200	6800 14,990 *8600 *18,960 *8600 *18,960 *8600 *18,960 *8600 *18,960	3900 8,600 4500 9,920 5600 12,350 *8400 *18,520 7000 15,430	4100 9,040 *6000 *13,230 5900 13,010 *6000 *13,230 *6000 *13,230	2400 5,290 2700 5,950 3400 7,500 5100 11,240 4300 9,480			*2800 *6,170 *2800 *6,170 *2800 *6,170 *2800 *6,170 *2800 *6,170	1600 3,530 1900 4,190 2400 5,290 *2800 *6,170 *2800 *6,170	7.44 m (24'5")
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.	-3.0 m (-10.0 ft)	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg Ib kg Ib kg Ib kg Ib	13 800 30,420 *14 000 *30,870 *14 000 *30,870 *14 000 *30,870 *14 000 *30,870	7100 15,650 8500 18,740 10 900 24,030 *14 000 *30,870 *14 000 *30,870	6500 14,330 *7900 *17,420 *7900 *17,420 *7900 *17,420 *7900 *17,420	3600 7,940 4300 9,480 5300 11,680 *7900 *17,420 6700 14,770							

M316D Wheel Excavator specifications

Offset Boom – 2.4 m (7'10") stick

Stick		Undercarriage		3.0 (10.		4.5 (15.	i m 0 ft)	6.0 (20.) m O ft)	7.5 (25.		•		
2.4 m (7'10")		configuration		l &		Ē.						Ū-		m/ft
Load Point Height Load Radius Over Front	6.0 m (20.0 ft)	(Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg			*4800 *10,580 *4800 *10,580 *4800 *10,580 *4800 *10,580 *4800 *10,580	4600 10,140 *4800 *10,580 *4800 *10,580 *4800 *10,580 *10,580	4600 10,140 *4700 *10,360 *4700 *10,360 *4700 *10,360 *4700 *10,360	2800 6,170 3200 7,060 3900 8,600 *4700 *10,360 *4700 *10,360					
or Rear Load Radius Over Side Load at Maximum Reach	4.5 m (15.0 ft)	(Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg Ib kg Ib kg Ib kg Ib	*5300 *11,680 *5300 *11,680 *5300 *11,680 *5300 *11,680 *5300	*5300 *11,680 *5300 *11,680 *5300 *11,680 *5300 *11,680 *5300 *11,680	*5700 *12,570 *5700 *12,570 *5700 *12,570 *5700 *12,570 *5700 *12,570	4500 9,920 5100 11,240 *5700 *12,570 *5700 *12,570 *5700 *12,570	4600 10,140 *5100 *11,240 *5100 *11,240 *5100 *11,240 *5100	2900 6,390 3300 7,280 *3900 *8,600 *5100 *11,240 4700 10,360	*2800 *6,170 *2800 *6,170 *2800 *6,170 *2800 *6,170 *2800 *6,170	1700 3,750 2000 4,410 2500 5,510 *2800 *6,170 *2800 *6,170	*2000 *4,410 *2000 *4,410 *2000 *4,410 *2000 *4,410 *2000 *4,410	1600 3,530 1900 4,190 *2000 *4,410 *2000 *4,410 *2000 *4,410	7.99 m (26'3")
	3.0 m (10.0 ft)	(Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg Ib kg Ib kg Ib	*8600 *18,960 *8600 *18,960 *8600 *18,960 *18,960 *8600 *18,960	7900 17,420 *8600 *18,960 *8600 *18,960 *8600 *8600 *18,960	6900 15,210 *7300 *16,090 *7300 *16,090 *7300 *16,090 *7300 *16,090	4300 9,480 5000 11,020 5900 13,010 *7300 *16,090 7100 15,650	4500 9,920 *5500 *12,130 *5500 *12,130 *5500 *12,130 *5500 *12,130	2900 6,390 3300 7,280 *3900 *8,600 5400 11,910 4600 10,140	3000 6,610 *4500 *9,920 *4500 *9,920 *4500 *9,920 *4500 *9,920	1700 3,750 2000 4,410 2500 5,510 3700 8,160 3100 6,830	*2000 *4,410 *2000 *4,410 *2000 *4,410 *2000 *4,410 *2000 *4,410	1400 3,090 1700 3,750 *2000 *4,410 *2000 *4,410 *2000 *4,410	8.40 m (27'7")
	1.5 m (5.0 ft)	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg b kg b kg b kg b	*10 400 *22,930 *10 400 *22,930 *10 400 *22,930 *10 400 *22,930 *10 400 *22,930	7600 16,760 8800 19,400 *10 400 *22,930 *10 400 *22,930 *10 400 *22,930	6800 14,990 *8200 *18,080 *8200 *18,080 *8200 *18,080 *8200 *18,080	4300 9,480 4900 10,800 5800 12,790 *8000 *17,640 6900 15,210	4500 9,920 *5900 *13,010 *5900 *13,010 *5900 *13,010 *5900 *13,010	2800 6,170 3200 7,060 3900 8,600 *5300 *11,680 4600 10,140	3000 6,610 *4700 *10,360 4100 9,040 *4700 *10,360 *4700 *10,360	1700 3,750 2000 4,410 2500 5,510 3700 8,160 3100 6,830	*2100 *4,630 *2100 *4,630 *2100 *4,630 *2100 *4,630 *2100 *4,630	1300 2,870 1600 3,530 2000 4,410 *2100 *4,630 *2100 *4,630	8.49 m (27'10")
	Ground	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg Ib kg Ib kg Ib kg Ib	*12 200 *26,900 *12 200 *26,900 *12 200 *26,900 *12 200 *26,900 *12 200 *26,900 *12 200	7400 16,310 8800 19,400 10,900 24,030 *12,200 *26,900 *12,200 *26,900	6800 14,990 *8300 *18,300 *8300 *18,300 *8300 *8300 *18,300 *18,300	4100 9,040 4700 10,360 5800 12,790 *8100 *17,860 7000 15,430	4400 9,700 *6000 *13,230 5900 13,010 *6000 *13,230 *6000 *13,230	2600 5,730 3000 6,610 3700 8,160 5300 11,680 4500 9,920	2900 6,390 *4500 *9,920 4000 8,820 *4500 *9,920 *4500 *9,920	1600 3,530 1900 4,190 2400 5,290 3600 7,490 3000 6,610	*2200 *4,850 *2200 *4,850 *2200 *4,850 *2200 *4,850 *2200 *4,850 *4,850	1400 3,090 1600 3,530 2000 4,410 *2200 *4,850 *2200 *4,850	8.28 m (27'2")
* Indicates that the load is limited by hydraulic capacity rather than tipping	-1.5 m (-5.0 ft)	(Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg b kg b kg b kg b	13 300 29,320 *13 600 *29,980 *13 600 *29,980 *13 600 *29,980 *13 600 *29,980	7000 15,430 8400 18,520 10 900 24,030 *13 600 *29,980 13 500 29,760	6800 14,990 *8500 *18,740 *8500 *18,740 *8500 *18,740 *8500 *18,740	3900 8,600 4500 9,920 5600 12,350 *8300 *18,300 7000 15,430	4200 9,260 *6100 *13,450 5900 13,010 *6100 *13,450 *6100 *13,450	2400 5,290 2800 6,170 3500 7,720 5100 11,240 4300 9,480			*2500 *5,510 *2500 *5,510 *2500 *5,510 *2500 *5,510 *2500 *5,510	1500 3,310 1800 3,970 2300 5,070 *2500 *5,510 *2500 *5,510	7.74 m (25'5")
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.	-3.0 m (-10.0 ft)	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg Ib kg Ib kg Ib kg Ib	13 700 30,200 *14 100 *31,090 *14 100 *31,090 *14 100 *31,090 *14 100 *31,090	7000 15,430 8400 18,520 10,800 23,810 *14,100 *31,090 *31,090	6500 14,330 *8400 *18,520 *8400 *18,520 *8400 *18,520 *8400 *18,520	3700 8,160 4300 9,480 5400 11,910 8200 18,080 6700 14,770	4000 8,820 *4300 *9,480 *4300 *9,480 *4300 *9,480 *4300 *9,480	2300 5,070 2700 ,5950 3300 7,280 *4300 *9,480 4200 9,260					

[•] Oscillating axle must be locked.

[•] All values are calculated at the stick-nose.

VA Boom Industrial Stick – 3.1 m (10'2") stick

Stick		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)				
3.1 m (10'2")				Ęħ,		ĘÑ,	æ	Ģ.		Į,	F	Ģ.		m/ft
Load Point Height Load Radius Over Front or Rear Load Radius Over Side Load at Maximum Reach * 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 typraulic 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.	6.0 m (20.0 ft)	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg lb					*4600 *10,140 *4600 *10,140 *4600 *10,140 *4600 *10,140 *10,140	3700 8,160 4400 9,700 *4600 *10,140 *4600 *10,140)				
	4.5 m (15.0 ft)	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg lb			*5100 *11,240 *5100 *11,240 *5100 *11,240 *5100 *11,240 *5100 *11,240	4900 10,800 5100 11,240 5100 11,240 *5100 *11,240 *5100 *11,240	5000 11,020 *5200 *11,460 *5200 *11,460 *5200 *11,460 *5200 *11,460	3300 7,280 3700 8,160 4400 9,700 *5200 *11,460 5100 11,240	3600 7,940 *4200 *9,260 *4200 *9,260 *4200 *9,260 *4200 *9,260	2300 5,070 2600 5,730 3100 6,830 *4200 *9,260 3700 8,160	*3200 *7,060 *3200 *7,060 *3200 *7,060 *3200 *7,060 *3200 *7,060	2100 4,630 2400 5,290 2800 6,170 *3200 *7,060 *3200	7.89 m (25'11")
	3.0 m (10.0 ft)	(Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg lb	*8800 *19,400 *8800 *19,400 *8800 *19,400 *8800 *19,400 *8800 *19,400	8400 18,520 *8800 *19,400 *8800 *19,400 *8800 *19,400 *8800 *19,400	7400 16,310 *7500 *16,540 *7500 *16,540 *7500 *16,540 *7500 *16,540	4700 10,360 5400 11,910 6400 14,110 *7500 *16,540 *7500 *16,540	4900 11,800 *5900 *13,010 *5900 *13,010 *5900 *13,010 *5900 *13,010	3300 7,280 3700 8,160 4300 9,480 *5800 *12,790 5100 11,240	3600 7,940 *4900 *10,800 4700 10,360 *4900 *10,800 *4900 *10,800	2300 5,070 2600 5,730 3100 6,830 4200 9,260 3700 8,160	3000 6,610 *3200 *7,060 *3200 *7,060 *3200 *7,060 *3200 *7,060	1900 4,190 2200 4,850 2600 5,730 *3200 *7,060 3100 6,830	8.27 m (27'2")
	1.5 m (5.0 ft)	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg lb	*11 600 *25,570 *11 600 *25,570 *11 600 *25,570 *11 600 *25,570 *11 600 *25,570	8200 10,080 9400 20,720 *11 600 *25,570 *11 600 *25,570 *11 600 *25,570	7300 16,090 *8700 *19,180 *8700 *19,180 *8700 *19,180 *8700 *19,180	4700 10,360 5300 11,680 6300 13,890 8700 19,180 *7400 *16,310	4900 10,800 *6400 *14,110 *6400 *14,110 *6400 *14,110 *6400 *14,110	3200 7,060 3700 8,160 4300 9,480 5800 12,790 *5000	3500 7,720 *5200 *11,460 4600 10,140 *5200 *11,460 *5200 *11,460	2200 4,850 2500 5,510 3000 6,610 *4200 *9,260 3600 7,940	2900 6,390 *3400 *7,500 *3400 *7,500 *3400 *7,500 *3400 *7,500	1900 4,190 2100 4,630 2500 5,510 *3400 *7,500 3000 6,610	8.36 m (27'5")
	Ground	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg lb	*12 800 *28,220 *12 800 *28,220 *12 800 *28,220 *12 800 *28,220 *12 800 *28,220 *12 800 *28,220	8100 17,860 9400 20,720 11 500 25,350 *12 800 *28,220 *12 800 *28,220	7300 16,090 *9100 *20,060 *9100 *20,060 *9100 *20,060 *9100 *20,060	4600 10,140 5300 11,680 6300 13,890 8700 19,180 7500 16,540	4900 10,800 *6700 *14,770 *6700 *14,770 *6700 *14,770 *6700 *14,770	3100 6,830 3500 7,720 4200 9,260 5800 12,790 5000 11,020	3400 7,500 5200 11,460 4600 10,140 *5300 *11,680 *5300	2200 4,850 2400 5,290 2900 6,390 4100 9,040 3500 7,720	3000 6,610 *3700 *8,160 *3700 *8,160 *3700 *8,160 *3700 *8,160	1900 4,190 2100 4,630 2600 5,730 3600 7,940 3100 6,830	8.17 m (26'10")
	-1.5 m (-5.0 ft)	2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg lb	14 000 30,870 *14 400 *31,750 *14 400 *31,750 *14 400 *31,750 *14 400 *31,750	7800 17,200 9100 20,060 11 600 25,570 *14 400 *31,750 14 200 31,310	7300 16,090 *9200 *20,280 *9200 *20,280 *9200 *20,280 *9200 *20,280	4400 9,700 5100 11,240 6100 13,450 8800 19,400 7500 16,540	4700 10,360 *6700 *14,770 6400 14,110 *6700 *14,770 *6700 *14,770	2900 6,390 3300 7,280 4000 8,820 5700 12,570 4800 10,580	3300 7,280 *4800 *10,580 4500 9,920 *4800 *10,580 *4800 *10,580	2100 4,630 2400 5,290 2800 6,170 4000 8,820 3400 7,500	3200 7,060 *4300 *9,480 *4300 *9,480 *4300 *9,480 *4300 *9,480	2000 4,410 2300 5,070 2800 6,170 3900 8,600 3300 7,280	7.66 m (25'2")
	-3.0 m (-10.0 ft)	(Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg lb	14 200 31,310 *14 700 *32,410 *14 700 *32,410 *14 700 *32,410 *14 700 *32,410	7600 16,760 9000 19,840 11 400 25,130 *14 700 *32,410 14 600 32,190	7100 15,650 *9400 *20,720 *9400 *20,720 *9400 *20,720 *9400 *20,720	4300 9,480 4900 10,800 5900 13,010 8800 19,400 7300 16,090	4600 10,140 *6200 *13,670 *6200 *13,670 *6200 *13,670 *6200 *13,670	2800 6,170 3200 7,060 3900 8,600 5500 12,130 4700 10,360					
	-4.5 m (-15.0 ft)		kg lb kg lb kg lb kg lb	*12 000 *26,460 *12 000 *26,460 *12 000 *26,460 *12 000 *26,460 *12 000 *26,460	7500 16,540 8800 19,400 11,300 24,910 *12,000 *26,460 *12,000 *26,460	*6000 *13,230 *6000 *13,230 *6000 *13,230 *6000 *13,230 *6000 *13,230	4100 9,040 4700 10,360 5800 12,790 *6000 *13,230 *6000 *13,230							

[•] Oscillating axle must be locked.

[•] All values are calculated at the stick-nose.

One-piece Boom Industrial Stick – 3.1 m (10'2") stick

Stick		Undercarriage		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)				
3.1 m (10'2")		configuration		Ęħ,		Ģ.						F.		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)		kg lb kg lb kg lb kg lb					*4500 *9,920 *4500 *9,920 *4500 *9,920 *4500 *9,920 *4500 *9,920	3300 7,280 3700 8,160 4300 9,480 *4500 *9,920 *4500 *9,920					
	4.5 m (15.0 ft)		kg lb kg lb kg kg kg lb					5000 11,020 *5200 *11,460 *5200 *11,460 *5200 *11,460 *5200 *11,460	3200 7,060 3600 7,940 4300 9,480 *5200 *11,460 5100 11,240	3600 7,940 *3600 *7,940 *3600 *7,940 *3600 *7,940 *3600 *7,940	2300 5,070 2600 5,730 3100 6,830 *3600 *7,940 *3600 *7,940	*3200 *7,060 *3200 *7,060 *3200 *7,060 *3200 *7,060 *3200 *7,060	2200 4,850 2500 5,510 3000 6,610 *3200 *7,060 *3200 *7,060	7.64 m (25'1")
	3.0 m (10.0 ft)		kg lb kg lb kg lb kg lb			*7200 *15,870 *7200 *15,870 *7200 *15,870 *7200 *15,870 *7200 *15,870	4600 10,140 5200 11,460 6300 13,890 *7200 *15,870 *7200 *15,870	4800 10,580 *5800 *12,790 *5800 *12,790 *5800 *12,790 *5800 *12,790	3100 6,830 3500 7,720 4100 9,040 *5800 *12,790 5000 11,020	3500 7,720 *4800 *10,580 4600 10,140 *4800 *10,580 *4800 *10,580	2300 5,070 2500 5,510 3000 6,610 4200 9,260 3600 7,940	*3200 *7,060 *3200 *7,060 *3200 *7,060 *3200 *7,060 *3200 *7,060	2100 4,630 2300 5,070 2700 5,950 *3200 *7,060 *3200 *7,060	8.03 m (26 [°] 4")
	1.5 m (5.0 ft)	(Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg lb			7100 15,650 *8600 *18,960 *8600 *18,960 *8600 *8600 *18,960	4300 9,480 4900 10,800 6000 13,230 *8600 *18,960 7300 16,090	4700 10,360 *6400 *14,110 *6400 *14,110 *6400 *14,110	3000 6,610 3300 7,280 4000 8,820 5600 12,350 4800 10,580	3400 7,500 5200 11,460 4600 10,140 *5300 *11,680 *5300 *11,680	2200 4,850 2500 5,510 3000 6,610 4100 9,040 3500 7,720	3100 6,830 *3400 *7,500 *3400 *7,500 *7,500 *3400 *7,500	2000 4,410 2200 4,850 2600 5,730 *3400 *7,500 3200 7,060	8.12 m (26'8")
	Ground	Rear dozer up (Load over front) Rear dozer down (Load over rear) Rear stab down (Load over rear) 2 sets stab down (Load over front) Dozer and stab down (Load over front)	kg lb kg lb kg lb kg lb	*5800 *12,790 *5800 *12,790 *5800 *12,790 *5800 *12,790 *5800 *12,790	*5800 *12,790 *5800 *12,790 *5800 *12,790 *5800 *12,790 *5800 *12,790	6800 14,990 *9300 *20,500 *9300 *20,500 *9300 *9300 *20,500	4100 9,040 4700 10,360 5700 12,570 8500 18,740 7100 15,650	4600 10,140 *6800 *14,990 6200 13,670 *6800 *14,990 *6800 *14,990	2900 6,390 3200 7,060 3900 8,600 5500 12,130 4700 10,360	3400 7,500 5100 11,240 4500 9,920 *5300 *11,680 *5300 *11,680	2200 4,850 2400 5,290 2900 6,390 4100 9,040 3500 7,720	3100 6,830 *3800 *8,380 *3800 *8,380 *8,380 *3800 *8,380	2000 4,410 2300 5,070 2700 5,950 3800 8,380 3200 7,060	7.92 m (26'0")
	-1.5 m (-5.0 ft)		kg b kg b kg b kg b	*8600 *18,960 *8600 *18,960 *8600 *18,960 *8600 *18,960 *18,960	7100 15,650 8300 18,300 *8600 *18,960 *8600 *18,960 *8600 *18,960	6700 14,770 *9000 *19,840 *9000 *19,840 *9000 *19,840 *9000 *19,840	4000 8,820 4600 10,140 5600 12,350 8400 18,520 7000 15,430	4500 9,920 *6600 *14,550 6200 13,670 *6600 *14,550 *6600	2800 6,170 3200 7,060 3800 8,380 5500 12,130 4600 10,140			3400 7,500 *4600 *10,140 *4600 *10,140 *4600 *10,140 *4600 *10,140	2200 4,850 2400 5,290 2900 6,390 4100 9,040 3500 7,720	7.4 m (24'3")
* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. If 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.	-3.0 m (-10.0 ft)		kg b kg b kg b kg b	*11 000 *24,250 *11 000 *24,250 *11 000 *24,250 *11 000 *24,250 *11 000 *24,250	7100 15,650 8400 18,520 10,700 23,590 *11,000 *24,250 *11,000	6800 14,990 *7800 *17,200 *7800 *17,200 *7800 *17,200 *7800 *17,200	4000 8,820 4600 10,140 5600 12,350 *7800 *17,200 7000 15,430	4500 9,920 *5600 *12,350 *5600 *12,350 *5600 *12,350 *12,350	2800 6,170 3200 7,060 3800 8,380 5500 12,130 4600 10,140					
	-4.5 m (-15.0 ft)		kg lb kg lb kg lb kg lb	*7100 *15,650 *7100 *15,650 *7100 *15,650 *7100 *15,650 *7100 *15,650	*7100 *15,650 *7100 *15,650 *7100 *15,650 *7100 *15,650 *7100 *15,650	*5000 *11,020 *5000 *11,020 *5000 *11,020 *5000 *11,020 *5000 *11,020	4100 9,040 4700 10,360 *5000 *11,020 *5000 *11,020 *5000 *11,020							

[•] 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

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, 75amp

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 ACERTTM Technology U.S. EPA Tier 3

Fuel filter

Fuel/water separator with level indicator

Muffler

Hydraulics

Cat XTTM-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 travel motor with

adjustable braking force

Oscillating front axle with remote greasing

Pin-on design preparation for dozer blade and outriggers

Tires, 10.00-20 16PR, dual

Tool box in undercarriage

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 3700 kg (8157 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, 5.05 m (16 ft 6 in)

Offset boom, 5.2m (17 ft 1 in)

Variable adjustable boom (two piece), 5.20 m (17 ft 1 in)

Bucket linkage with diverter valve

Sticks

2.1 m (6 ft 11 in) stick

2.4 m (7 ft 10 in) stick

2.6 m (8 ft 6 in) stick

3.1 m (10 ft 2 in) Industrial stick with drop nose

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)

Lid for storage compartment

Radio

Radio, AM/FM stereo (24V)

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 spilt, openable

Undercarriage

Dozer blade, front and/or rear mounted, with remote greasing

Optional tires

Dual tires

11.00-20 dual tires

10.00-20 dual solid rubber

Single tires

18-R 19.5 XF single

600/40-22.5 single

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

Counterweight 4100 kg (9039 lb)

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

Ride control, for increased comfort while traveling and working

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

Notes

Notes

M316D Wheel Excavator

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

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Materials and specifications are subject to change without notice.

Featured machines in photos may include additional equipment.

See your Caterpillar dealer for available options.

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