

Cat® 3056E ATAAC diesel engine	
Gross power	119 kW/159 hp
Net power	113 kW/151 hp
Operating Weight	17 800 to 19 700 kg
Bucket Capacities	0.35 to 1.09 m <sup>3</sup>
Maximum Reach at Ground Level	9600 mm
Maximum Digging Depth	6360 mm
Fravel Speed	34 km/h

## M318C Wheel Excavator

The C Series incorporates innovations for improved performance and versatility.

### Engine

The new Cat 3056E ATAAC electronically controlled engine provides increased horsepower to serve the advanced hydraulic system. Performance, reliability, durability, excellent fuel economy, and low sound levels help maximize working efficiency. The innovative cooling system is easy to clean and features increased cooling capacity through a temperature sensing on-demand fan. **pg. 4** 

# A Step Ahead in Environmental Considerations

Helping to protect our environment, the engine has low operator and spectator sound levels. In addition the hydraulic system can be operated with biodegradable oil. Longer filter change intervals and more fuel efficiency also help reduce impact on our environment. **pg. 6** 

### **Ease of Operation**

 On the new WEX Multipro monitor panel, a variety of easy-to-read, language-based data is displayed. At all times, the operator can check the machine status allowing for continuous production optimization.
pg. 7

#### **Hydraulics**

The hydraulic system, featuring a separate swing pump and load-sensing system, provides maximum power and exceptional controllability leading to high performance in all applications. The technologically advanced Tool Control option adds work tool flexibility to the hydraulic system. Using the monitor panel in the cab, the operator can quickly select pre-programmed hydraulic settings to optimize performance of up to five different work tools. **pg. 5** 

Courtesy of Machine.Market

and ease of operation lead to increased productivity and cost effective solutions.

Increased lifting capacity, improved cycle times,

✓ New features

#### **Operator Comfort**

The new operator station design maximizes operator comfort and visibility. A new comfort seat with air suspension (optional), ergonomic joysticks, a new soft switch panel and the WEX Multipro monitor are some of the features that help allow the operator to work free of fatigue and so remain attentive to the job in hand. The operator station also offers more space to the side and the front and features automatic climate control. **pg. 8** 

#### Undercarriage

Pin-On design of outriggers and dozer blade allows for interchangeability and helps maximize flexibility to match the application requirements. Heavy-duty cylinder protection and box section design help provide excellent durability. A sealed and lockable toolbox is mounted between the steps. **pg. 10** 

#### **Buckets and Teeth**

 A wide variety of bucket types are available for the M300 C-Series. These aggressive bucket designs are matched to fit the high C-Series digging forces to improve productivity.
pg. 12

#### **Booms and Sticks**

The box section design of all front-end structures, together with the optimum balance of durability and weight provide the strength needed for even the toughest application. Multiple boom and stick options allow you to pick the best match for your job. **pg. 11** 

#### Work Tools

Buckets, grapples, hammers, and quick couplers provide a total solution package to the end-user. Built for performance and durability these tools deliver high productivity, long service life and excellent value. pg. 13

#### Maintenance and Reliability

All daily maintenance points, such as oil level or greasing ports, are accessible from ground level. A centralized greasing port located in the engine compartment provides protection, and allows the operator to grease the front linkage and swing bearing without climbing onto the machine. **pg. 14** 

#### **Complete Customer Service**

Your Cat dealer offers a wide range of services that can be set up under a customer support agreement when you purchase your equipment. The dealer will help you choose a plan that can cover everything from machine and attachment selection to replacement. **pg. 17** 

### Cat 3056E ATAAC Engine

The six-cylinder, turbocharged, air-to-air aftercooled and electronically controlled engine is built for power, reliability, low maintenance, excellent fuel economy and low emissions.





**Powerful Performance.** The 3056E ATAAC engine delivers a net power of 113 kW (151 hp) at the rated speed of 2000 rpm, and meets all current worldwide emission standards.

### Turbocharged and Air-to-Air

**Aftercooled.** The turbocharger packs more dense air into the cylinders for more complete combustion and lower emission improving performance and engine efficiency. These benefits are especially useful at high altitudes. The air-to-air aftercooler reduces smoke and emissions by providing a cooler inlet air for more efficient combustion. This also extends the life of the piston rings and engine bore. **Cooling System**. Features an electronically controlled variable speed on-demand fan. The fan is driven by a hydraulic motor and its speed is determined by engine coolant and hydraulic oil. Cooler operating conditions allow lower average fan speeds resulting in reduced fuel consumption and lower noise levels. The electronic engine control continuously compensates for this varying fan load, providing consistent net horsepower, regardless of operating conditions. The fan and air conditioner condenser are both hinged for easier cleaning of the cores.

**Engine Oil.** Caterpillar engine oil is formulated to optimize engine life and performance and is strongly recommended for use in Cat diesel engines. The engine oil change interval is increased to 500 hours.

**Low Sound, Low Vibration.** The 3056E design improves operator comfort by reducing sound and vibration. The M318C has been awarded the German Blue Angel for low operator and spectator sound levels.

- Operator sound level, L<sub>PA</sub>, 72 db(A)
- Spectator sound level, L<sub>WA</sub> 102 db(A)

**Factory Remanufactured Parts.** A large choice of factory remanufactured parts and dealer proposed repair options increase machine availability and reduce total repair costs.

**Bosch Fuel Injection Pump.** The new Bosch injection pump is electronically controlled and helps to reduce fuel consumption.

**Service.** The engine is longitudinally mounted on the right side to make it easier to access the oil filter, oil filler, oil drain valve, fuel filter, V-belt tightener, and the oil dipstick. All are accessible from ground level.

### **Hydraulics**

Fast cycle times, increased lift capacity, and high bucket and stick forces combine to maximize your productivity in any job.

### Automatic Engine Control.

Automatic Engine Control (AEC) reduces engine rpm if no operation is performed, maximizing fuel efficiency and reducing sound levels.

**A Dedicated Swing Pump.** A separate dedicated variable displacement piston pump and fixed displacement piston motor power the swing mechanism. This closed hydraulic circuit helps to provide maximum swing performance without reducing power to the main hydraulic functions.

### Caterpillar's XT-6 ES Hoses.

To meet the critical flexibility and strength demands of wheel excavator applications, XT-6 ES hoses are installed in the high pressure hydraulic system. XT-6 ES hoses are made of four overlapping insulated wire spiral wraps bonded together for high abrasion resistance, excellent flexibility and easy installation. Hose routings are designed to protect from damage in this way reducing hose failure downtime. O-ring face seal couplings provide positive sealing for reliable and leak-free connections.

### Auxiliary Hydraulic Valves.

The versatility of the hydraulic system can be expanded with multiple valve options.

**Multifunction Valve.** The multifunction valve is the core of the innovative Tool Control system. This valve can be electronically programmed for flow direction (one or two ways), pressure and flow rate. The valve also features priority flow to maximize control of the work tool. This on-board electro-hydraulic functionality eliminates the need for manual readjustments to the auxiliary hydraulics each time a different tool is used. **Hammer.** The dedicated hammer valve is the best option for machines which will only require a hammer tool and do not need the flexibility provided by the multifunction valve.

**Medium Pressure.** A medium pressure valve is available for use with standard medium pressure tools.

### Hydraulic Cylinder Snubbers.

The hydraulic cylinder snubbers at the rod end of boom cylinders, both ends of stick cylinders, and bucket cylinder rod end cushion shocks reduce sound and increase cylinder life, keeping the machine working longer.

### Caterpillar® Hydraulic Oil.

Maximum protection against mechanical and corrosive wear in all hydraulic systems. Its high zinc content reduces wear, and extends pump life. Provided certain requirements are met (e.g. S•O•S<sup>sm</sup> analysis every 500 hours), the hydraulic oil change interval is extended from 2000 hours to 4000 hours.

**Controllability.** The hydraulic system offers precise control of the M318C, reducing operator fatigue, improving operator effectiveness and efficiency, which ultimately results in enhanced performance.

### **Stick Regeneration Circuit.**

Stick regeneration circuits increase efficiency and help increase controllability for higher productivity and lower operating costs.



### **Environmentally Responsible Design**

Caterpillar machines not only help you build a better world, they help maintain and preserve the fragile environment.



**More Performance.** The M318C is designed to provide more performance yet uses less fuel than ever before. This means more work done in a day, less fuel consumed and minimal impact on our environment.

**Low Exhaust Emissions.** The Cat 3056E used in the M318C is a low emission engine designed to meet EU Stage II Off-Highway and US EPA Tier II emission regulations.

**Quiet Operation.** Not only is the cab quiet, but spectators outside hear less noise too. As a result of the new variable speed fan and remote cooling system all machines meet the German Blue Angel award for low sound operation. **Ozone Protection.** To help protect the earth's ozone layer, the M318C's air conditioning unit uses only R-134a refrigerant which does not contain harmful chlorofluorocarbons (CFC's).

Biodegradable Hydraulic Oil. Available as an option, Caterpillar Biodegradable Hydraulic Oil (HEESTM) is formulated from a fully saturated Hydraulic Environmental with Ester Synthetic base stock and selected additives. It has excellent high-pressure and high-temperature characteristics and is fully compatible with our hydraulic components and allows operation over a broad temperature range. Cat's HEES is fully decomposed by soil or water microorganisms, providing a more environmentally-sound alternative to mineral-based oils. This is available as an attachment.

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

**Longer Service Intervals.** 500-hour engine service intervals and Cat Extended Life Coolant/Antifreeze mean that fluid renewal and disposal are less frequent.

**Rebuildable Components.** Many of the major components used in the M318C are designed for remanufacturing. This means you have high-quality, certified rebuilt replacement parts available at a fraction of the cost of new parts. There is less scrap for disposal.

### **Ease of Operation**

Designed for simple, easy operation, the M318C allows the operator to focus on production.



**WEX Multipro.** New, compact Multipro enhances viewing while displaying a variety of easy-to-read and understandable information in various languages.

#### Pre-start WEX Multipro System.

The Pre-start Multipro system alerts the operator of low coolant, engine oil or hydraulic oil levels, before starting the engine. When the engine key remains in the "ON" position for more than 2 seconds, a warning indicator and message are displayed if actual fluid levels are lower than required.

#### Filter and Oil Change Warnings.

The filter and oil change warnings are displayed when the number of hours used reaches the maintenance interval. **Power Modes.** There are three power mode settings. The operator can choose the best power setting for both engine and hydraulic power versus fuel efficiency.

**Economy Mode.** The economy mode is often used for lifting, pipe setting, grading, slope finishing and precise work. This mode helps ensure minimum fuel consumption.

**Power Mode.** This mode is used for normal truck loading and digging applications, trenching or hammer use.

**Travel Mode.** The travel mode is automatically set when the travel pedal is actuated. It provides maximum speed and drawbar pull.

### Integrated Tool Control System.

The integrated Tool Control system allows the operator to quickly select a tool out of five pre-set combinations, eliminating the need to re-set these hydraulic parameters each time a tool is changed. Specific flow and pressure can be programmed easily as well as one-way/two-way hydraulic functions. Each of the five programmed tools can even be given a specific name.

**Languages.** 14 different languages are available on the M318C.

**All-day operator comfort** *The M318C interior layout maximizes operator space, provides exceptional comfort,* and reduces operator fatigue.











**Interior Operator Station.** The M318C operator work station is quiet, controls have been placed conveniently for easy adjustment and ease of operation. The seat design is ergonomic and ventilation is highly effective.

**Seat.** The new wheel excavator seat with two-tone color design offers adjustable back rest, lumbar support, cushion length and cushion angle. Independently adjustable armrests and pilot controls allow tailored ergonomics to suit operator preference. Optional Comfort seat provides air suspension, seat heating, horizontal suspension and automatic adjustment for the operator's weight to help maximize comfort.

**Consoles.** Designed for simplicity and functionality, the left side console is tiltable for excellent access to the cab. Dozer blade and/or outrigger controls as well as the radio-off switch are located on the left console.

Automatic Climate Control. Fully automatic climate control adjusts temperature and air flow.

**Greater Control Convenience.** Each of the controls is positioned within easy reach of the operator. Joysticks control all implements and swing functions. Via the soft switch panel, the operator controls the oscillating axle, power modes, parking brake, automatic engine speed control, and other hydraulic functions are in an easy-toread environment.

**Cab Mounts.** The cab shell is attached to the frame with resilient mounts, reducing vibration and sound.



**Skylight.** A unique large polycarbonate skylight provides excellent upward visibility.

Viewing Area. There is excellent viewing area through wide windows. The lower of the two-piece window can be opened separately for better air ventilation or be slid into the upper window to completely open the front bay. An optional one-piece window is available.

**Wipers.** Designed to maximize visibility in poor weather conditions. The parallel wiper system covers almost the complete front window without leaving unwiped areas in the immediate line of sight of the operator.

**Large Storage Compartment.** Located behind the seat, provides sufficient room for a cooling box. An optional cover is available to close off the storage space if preferred.

**Easy Access.** Conveniently located grab irons and large steps mounted to the undercarriage, together with the tiltable steering column and the tiltable left side console, provide easy access to the cab.

### Undercarriage

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







A Strong Undercarriage. The welded frame provides excellent rigidity and long life. Efficient hydraulic lines routing, transmission protection and heavy-duty axles make the undercarriage perfect for wheel excavator applications. Both outriggers and dozer blade are pin-on for maximum flexibility.

**Heavy Duty Axles.** The front axles offer great oscillating and steering angles. The transmission is mounted directly on the rear axle for protection and optimum ground clearance.

**Outriggers.** Recommended for maximum operating stability when digging and lifting, the outriggers can be individually controlled to level the machine on slopes. Featuring pin-on design, heavy-duty cylinder guards, and optimized kinematics, the outriggers can be mounted on the front, rear or on both ends of the machine.

**Dozer Blade.** A useful addition for leveling and clean-up work, it can also be used to stabilize the machine during digging applications. The large dozer floor and the parallel design provide minimal ground pressure reducing impact to the work surface. Featuring a pin-on design, heavy-duty cylinder guards, and optimized kinematics, the dozer blade can be mounted either on the front or the rear end.

**Tool Box.** A large sealed and lockable toolbox is mounted on the undercarriage between the steps on the machines left side. A second optional toolbox is available for the right side.

### **Booms and Sticks**

Improved strength and kinematics help bring higher production and efficiency to all jobs.

**Booms and Sticks.** Built for performance and long service life, Caterpillar booms and sticks are large, welded, box-section structures with thick, multi-plate fabrications in highstress areas.

**Flexibility.** The choice of two booms and three different sticks means that the M318C offers the right combination of reach and digging forces for all applications.

**One-piece Boom.** The one-piece boom (5400 mm) 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.

**Hydraulically Adjustable Boom (VA).** The VA boom (5260 mm) offers improved visibility and machine roading balance. When working in tight quarters or lifting heavy loads, the VA boom offers the best flexibility.

**Sticks.** Three different stick lengths are offered to match different applications.

- Short stick (2200 mm) for maximum breakout force and lifting capability
- **Medium stick** (2500 mm) as standard for most applications
- Long stick (2800 mm) to match reach and depth requirements



### **Buckets and Teeth**

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



**1 Utility Light (LU).** Low cost earth working bucket for floor, bank and ditch finishing.

**Utility Standard (SU).** Demolition and construction bucket handles bricks and broken concrete, as well as trench filling, floor leveling and bank finishing.

- **2 Excavation/Trenching (X).** Digs and loads soft to medium materials such as clay and earth. Features weld on tip adapters, hardened cutting edge and side bars.
- 3 Extreme Excavation/Trenching (EX).

Digs and loads compact/abrasive materials like earth/rock, sand/clay, sand/gravel, coal, chalk and low abrasion ores. Features bigger ground engaging tools, plus abrasion resistant steel for all wear parts.

**4 Rock Loading (RL).** Loads large blocks of rock and other abrasive materials. Features longer floor plate and increased side bar curvature for better stability under load.

- **5 Block Handling (BH).** Handles pre-shaped blocks of quarry marble and granite. Features increased tip radius, deep-cut side bars for long-floor platform.
- **6** Skeleton Light (SL). For soft and moist soils and for applications where separation of materials, e.g., branches, peatmoss, is required.

**Skeleton Heavy Duty (SH).** As S.L., but for more demanding separation work such as sorting rock from sand or gravel on demolition sites.

- **7 Ditch Cleaning (DC).** Wide, light bucket used mainly with long-reach configurations to clean water beds and banks.
- **8 Trapezoidal (T).** To prepare and maintain small irrigation ditches. Features angled sides to shape ditch banks in one operation.

**All Cat buckets** can be fitted for Caterpillar Quick Coupler.

### **Tip selection**

- **11** Penetration
- 12 Penetration Long Life
- 13 Short
- 14 Long
- 15 Heavy-duty Long
- **16** Heavy-duty Abrasion
- 17 Heavy-duty Long Life
- 18 Sharp / Corner Sharp
- 19 Wide
- 20 Twin Sharp
- 21 Long Sharp
- **22** Penetration Plus

### **Tool Control System, Quick Couplers and Work Tools**

User-friendly, integrated electro-hydraulics make changing tools easy and quick and allow the operator to focus on efficient work.

**Tool Controller.** Five hydraulic pump flow and pressure settings can be preset on the WEX Multipro, eliminating the need to adjust the hydraulics each time a tool is changed. Selecting the proper setting from the WEX Multipro's menu instantly provides the operator with the optimal hydraulic settings for the specified tool.

**Quick Coupler.** Caterpillar Quick Couplers provide quick tool exchange time while maintaining top machine performance.

- The universal Quick Coupler hydraulic circuit avoids difficult and costly retrofitting of Quick Coupler hydraulics and allows use of the most frequently used Quick Coupler systems. Ask your Cat dealer for more specific information.
- The hydraulic version is available in the standard and narrow version and makes it easy for the operator to switch tools without leaving the cab.
- The spindle version is a userfriendly mechanical version that can later be converted into the hydraulic version if required. The spindle version is also available in the narrow and standard version.
- A lifting hook can be added to the Quick Coupler for maximum lift capacity.
- The new Cat CW-Series Quick Couplers make it possible for the operator to simply release one work tool and pick up the next, making your wheel excavator highly versatile. The Cat CW-Series Quick Couplers maximize machine efficiency in a cost-effective way.



**Hammer.** Cat hammers with a wide variety of tools provide the perfect match of maximum life, efficiency and productivity.

**Demolition and Sorting Grapple.** The demolition and sorting grapple with unlimited left and right rotation is the ideal tool for stripping, sorting, handling and loading.

**Clamshell.** For some trenching applications or jobs being performed on inner city roads, a clamshell provides an ideal solution. The free-swinging tool makes it possible to dig small sized holes easily.

### **Maximum Uptime – Service and Maintenance**

Extended service intervals and easy access reduce operating costs.



**Extended Service Intervals.** M318C service and maintenance intervals have been extended to reduce machine service time, increase machine availability and reduce operating costs. Using S•O•S hydraulic oil change intervals can be extended from 2000 hours to 4000 hours. Engine coolant change intervals are up to 6000 hours when Cat Extended Life Coolant/Anti-Freeze is used.

**Easy, Wide Open Access.** Gull-wing doors with pneumatically assisted lift cylinders lift up effortlessly for excellent access to the engine and all service points.

**Easy to Clean Coolers.** Flat fins on all coolers reduce clogging and make it easier to remove debris.

**Ground Level Service.** The design and layout of the M318C was made with the service technician in mind. The fuel water separator, engine oil filter, battery, radiator fluid level, fuel filter, engine oil gauge, hydraulic oil level, air cleaner and pilot system filter are all easily accessible at ground level allowing critical maintenance to be done quickly and efficiently.

**Front Compartment.** The front service compartment provides ground level access to the batteries, ATAAC, AC condenser and the air filter.

**Swing-Up AC Condenser.** Without using tools, the AC condenser swings up vertically to allow cleaning on both sides as well as clear access to the ATAAC.



**Fuel Tank Drain.** Located at the bottom of the upper frame, the fuel tank drain with a hose connection allows simple, spill free fluid draining.

**Air Filter.** Caterpillar Radial Seal air filters do not require tools to service them, thus reducing maintenance time. The air filter features a double-element construction and built-in precleaner for superior cleaning efficiency. When the air cleaner plugs, a warning is displayed on the monitor screen inside the cab.

**Capsule Filter.** The hydraulic return filter, a capsule filter, is situated inside the hydraulic tank. This filter prevents contaminants from entering the system when hydraulic oil is changed and keeps the operation clean. **Engine Inspection.** The engine can be accessed from both ground level and from the upper structure. The longitudinal layout ensures that all daily inspection items can be accessed from ground level. The engine and pump compartment are separated by a steel wall.

**Water Separator.** The water separator removes water from fuel even when under pressure and is located in the engine compartment.

**Remote Greasing Block.** A greasing block located in the engine compartment with two grease points for the swing bearing and one for the front end attachment delivers grease to hard-to-reach locations.

**Hydraulic Tank Drain**. The hydraulic tank drain enables simple, spill-free fluid changes.

**Handrails and Steps.** Well-sized handrails and steps assist the operator in climbing on and off of the machine.

#### **Diagnostics and Monitoring.**

The M318C is equipped with S•O•S sampling ports for the hydraulic system and engine oil. A connection for the Electronic Technician (ET) is conveniently located in the cab.

#### Anti-Skid "Punched-Star" Plate.

An anti-skid punched-star plate covers the top of the steps and the upper structure to prevent slipping during maintenance.

#### **Electronic Technician (ET).**

The electronic engine and machine controllers provide detailed diagnostic possibility for service technicians. The ability to store both active and intermittent indicators simplifies problem diagnosis and reduces total repair time, resulting in improved machine availability and lower operating cost. ET can be used to...

- access data stored in the engine and transmission controls via the Cat Data Link System
- display the status of parameters such as engine speed, gear engaged, control switch position, etc.
- view active and non-active diagnostic codes and clear them after repair
- perform diagnostic tests and calibrations of electro-hydraulic components
- view current configuration and change parameter settings
- flash new Caterpillar software into the Electronic Control Modules
- A customer version of ET is also available for your fleet of Caterpillar equipment. Contact your Caterpillar dealer

#### **Caterpillar Product Link System**

Attachment. Product Link includes a transceiver module (on-board the machine), office application PC software, and a satellite communications network to track machine hours, location, and warnings. Product Link simplifies maintenance scheduling, fleet management, unauthorized machine usage or movement, and product problem event tracking and diagnosis (PL-201). Available in two versions, there is a Product Link system for most customers needs. See your Caterpillar dealer.

### Scheduled Oil Sampling (S•O•S)

**Analysis.** Caterpillar has specially developed S•O•S to help ensure better performance, longer life and increased customer satisfaction. It is a thorough and reliable early warning system which detects traces of metals, dirt and other contaminants in your engine, axle and hydraulic oil. It can predict potential trouble early, thus avoiding costly failures. Your Caterpillar dealer can give you results and specific recommendations shortly after receiving your sample. Each S•O•S test can provide specific types of diagnosis:

- **Oil condition analysis** identifies loss of lubricating properties by quantifying combustion products such as soot, sulfur, oxidation and nitrates.
- Wear analysis monitors component wear by detecting, identifying and assessing the amount and type of metal wear elements found in the oil.
- **Chemical and physical test** detect the physical presence of unwanted fluids (water, fuel, antifreeze).

### **Lower Operating Costs**

Improvements in operating costs provide a long-term investment.



**Fuel Consumption.** The new EU Stage II (US EPA Tier II), electronically controlled engine, new Bosh fuel injection system and new ATAAC combine to provide outstanding fuel consumption during both production and traveling. The Automatic Engine Speed Control reduces idle speed when the implements are not active to further improve fuel consumption.

**Filter Change Intervals.** 2000 hours hydraulic oil and 500 hours engine oil filter change intervals save time and money.

#### Hydraulic Oil Change Intervals.

With the aid of S•O•S sampling hydraulic oil change intervals can be extended from 2000 hours to an average of 4000 hours.

Your Caterpillar dealer can provide you with detailed calculations and simulations of how our low operating costs can benefit your particular application.

### Maximum uptime – Reliability

Caterpillar standard features help to increase machine uptime.



### Caterpillar Braided Harnesses.

Designed and manufactured to resist the most severe conditions. Harnesses are made of large section, colored and number-coded wires, with the complete harness being protected by an abrasion resistant braiding. Harnesses are properly routed and securely clamped to ensure their reliability and life.

**XT-6 ES Hoses.** Premium quality rubber, precision 4-ply wire reinforcement and exclusive reusable couplings are all unique features of Cat hoses which deliver top performance and long life. O-Ring face seals provide positive sealing for reliable and leak-free connections. **Caterpillar Batteries.** Caterpillar maintenance-free, high output batteries are designed for high cranking power and maximum protection against vibration.

**Fuel Filters.** Cat high efficiency fuel filters with a Stay-Clean Valve<sup>TM</sup> feature cellulose/synthetic blend media that remove more than 98 percent of particles that are two microns or larger, increasing fuel injector life.

### **Complete Customer Support**

Cat dealer services help you operate longer with lower costs.

**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 to get the best out of your investment.

**Product Support.** You will find a solution for your parts requirements at your dealer. Cat dealers utilize a worldwide network to find in-stock parts to minimize downtime. In addition your dealer can offer alternative solutions like Reman, Classic Parts and quality used parts to save money on original Caterpillar components.

**Service Capability.** Whether in the dealer's fully equipped shop or in the field, you will get highly trained service technicians using the latest technology and tools.

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



**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 training material and ideas to help you increase productivity.

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

### Engine

Cat 3056E ATAAC diesel engine							
Ratings	2000 rpm						
Gross power	119 kW/159 hp						
Net power							
ISO 9249	113 kW/151 hp						
EEC 80/1269	113 kW/151 hp						
Bore	100 mm						
Stroke	127 mm						
Displacement	6.0 liters						
Cylinders	6						

Maximum torque at 1400 rpm 675 Nm

- The 3056E engine meets EU directive 97/68/EC Stage II emission requirements.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator.
- No engine derating is required below 3000 m altitude.

### **Swing Mechanism**

Swing speed	10.5 rpm
Swing torque	45.7 kNm
Maximum flow	112 l/min
Maximum pressure	310 bar

## **Hydraulic System**

Tank capacity	170 liters
System	255 liters
Maximum pressure	
Implements	350 bar
Travel	350 bar
Maximum flow	288 and 112 l/min
Pilot system	
Maximum pressure	31 bar

### Transmission

1st gear,	
forward/reverse	9 km/h
2nd gear,	
forward/reverse	20/25/30/34 km/h
Creeper speed	
(first gear)	4 km/h
Creeper speed	
(second gear)	13 km/h
Drawbar pull	96.6 kN
Maximum Gradeabilit	y 61.5%

### Cab

Cab/FOGS meets ISO 10262.

### Sound

Low sound, low vibration. The 3056E design improves operator comfort by reducing sound and vibration. The M318C was awarded the German Blue Angel for low spectator sound levels.

### **Operator Sound**

- The operator sound level measured according to the procedures specified in ISO 6396:1992 is L<sub>PA</sub> 72 dB(A), for cab offered by Caterpillar, when properly installed and maintained and tested with the doors and windows closed.
- Hearing protection may be needed when operating with an open cab for extended periods or in a noisy environment.

### **Exterior Sound**

 The labeled spectator sound power level measured according to the test procedures and conditions specified in 2000/14/EC is L<sub>WA</sub> 102 dB(A).

### Tires

Standard

Dual pneumatic 10.00-20

#### Optional

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

### **Service Refill Capacities**

	Liter
Fuel tank capacity	385
Cooling	39
Engine crankcase	18
Rear axle housing (differential)	11
Front steering axle (differential)	8
Final drive	
Disk brakes	2
Drum brake	1.2
Powershift transmission	3

### Weights

Average operating weights include a general purpose bucket, 100% fuel and an operator.

VA boom	kg
rear dozer only	18 300
rear dozer, front outriggers	19 350
front and rear outriggers	19 650
One-piece boom	
rear dozer only	17 800
rear dozer, front outriggers	18 850
front and rear outriggers	19 150
Dozer blade	760
Outriggers	1020
Counterweight	4000

# Dimensions

All dimensions are approximate - measured in mm



		VA boom	One-piece boom
		mm	mm
A	Shipping height		
	2200 mm stick	cab height	3190
	2500 mm stick	cab height	3210
	2800 mm stick	3300	3330
B	Shipping length		
	2200 mm stick	8870	8870
	2500 mm stick	8850	8960
	2800 mm stick	8820	8950
C	Support Point		
	2200 mm stick	3920	3810
	2500 mm stick	3650	3490
	2800 mm stick	3510	3310
D	Tail swing radius	2500	2500
Ε	Counterweight clearance	1275	1275
F	Cab height	3170	3170



### Undercarriage with dozer only



Undercarriage with 2 sets of outriggers



Undercarriage with 1 set of outriggers and dozer



Courtesy of Machine.Market

# **Bucket Specifications**

Contact your Caterpillar dealer for special bucket requirements. Buckets are available to fit the Cat quick coupler.

### **Buckets without Quick Coupler**

	Width	Weight	Capacity (SAE)	Varia	5260 mm able adjustable	5350 mm One-piece boon	n			
Bucket type/stick length	mm	kg	m <sup>3</sup>	2200 mm	2500 mm	2200 mm	2500 mm	2800 mm		
	600	450	0.36							
	750	473	0.48							
Evenuetien	900	520	0.61							
	1000	552	0.70							
	1100	600	0.82			×			×	
	1200	633	0.91			×			×	
	1300	664	0.99		×	×		×	×	
	1400	702	1.09		×	N		×	Ν	
Extreme Execution	1200	667	0.91			×			×	
	1300	700	0.99		×	×		×	×	
Ditch Cleaning, tiltable	1800	735	0.47							
	2000	770	0.53							

### **Buckets and Quick Coupler**

	Width	Weight	Capacity (SAE)	Varia	5260 mm 5350 mm Variable adjustable boom One-piece b						
Bucket type/stick length	mm	kg	m³	2200 mm	2500 mm	2800 mm	2200 mm	2500 mm	2800 mm		
	600	427	0.35								
	750	471	0.48								
	900	485	0.61								
Excavation	1000	516	0.70								
	1100	566	0.82			×			×		
	1200	606	0.91		×	×		×	×		
	1300	637	0.99	×	×	N	×	×	×		
	1400	675	1.09	×	N	N	×	N	N		
Extreme Exception	1200	641	0.91		×	×		×	×		
	1300	673	0.99	×	×	N	×	×	N		
Ditch Clooping	1800	488	0.63								
Ditch cleaning	2000	557	0.83								
Ditch Clooping tiltable	1800	867	0.76			×			×		
Dich cleaning, titable	2000	911	0.84		×	N		×	N		



Ν stabilization only

х Not recommended for dozer down Not recommended for free on wheels operation

# 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.

			5260 mm Variable adjustable boom				5350 mm One-piece boom													
			lo	Dozer lowered		of s	2 sets stabili owere	zer d	l and lo	Dozer d stabilize lowered		Dozer lowered		d	2 sets of stabilizer lowered		zer d	Dozer and stabil lowere		lizer d
Without quick coupler	Stick leng	th mm	2200	2500	2800	2200	2500	2800	2200	2500	2800	2200	2500	2800	2200	2500	2800	2200	2500	2800
Hammers	H115s																			
Multiprocessor	H120CS				×			×			×			×			×			×
Grusher			×	×	×			×			×	×	×	×			×			×
Bulverizer	VHC-30		×	×	×			×			×	×	×	×			×			×
260° rotation shoar	VTF-30		×	×	X		~				~	X	X	X			~			~
Demolition and sorting grapple	G215B		×	×	×		×	x		×	×	×	×	×			×			×
	GGS-25		×	×	X							×	X	×						
Digging clamshell bucket	GGS-25		v	~	v							v	v	v						
	003-35	0.46 m <sup>3</sup>	×	×	X							×	X	×						
		0.40 m <sup>3</sup>										-								
Rehandling clamshall bucket	608-25	0.52 m <sup>3</sup>			v							-		~						
	003-25	0.36 m <sup>3</sup>	~	~	X								~	×						
		0.75 m	×	×	×							X	×	×						
	CSM25	0.50 m <sup>3</sup>	×	×	×							×	X	×						
	0310125	0.40 III <sup>3</sup>			×									X						
Orange peel grapple (5 tines)	0.011.15	0.30 1115	×	×	×							×	×	×						
	628-12	0.40 m <sup>3</sup>	×	×	×							×	×	×						
		0.50 m <sup>3</sup>	×	×	×							×	X	×						
With quick coupler																				
Quick Coupler	CW-30																			
	CW-30S																			
Hammars	H115s				×			×			×			×			×			×
Traininers	H120Cs				×			×			×			×			×			×
Multiprocessor	MP15		×	×	×			×			×	×	×	×			×			×
Crusher	VHC-30		×	×	×			×			×	×	×	×			×			×
Pulverizer	VHP-30		×	×	×			×			×	×	×	×			×			×
360° rotation shear	S320		×	×	×		×	×		×	×	×	×	×		×	×		×	×
Demolition and sorting grapple	G315B		×	×	×			×			×	×	×	×			×			×
Digging alamahall bucket	GGS-25																			
	GGS-35		×	×	×			х			×	×	×	×			×			×
		0.46 m <sup>3</sup>			×															
		0.52 m <sup>3</sup>	×	×	×							×	×	×						
Rehandling clamshell bucket	GOS-25	0.58 m <sup>3</sup>	×	×	×							×	×	×						
		0.75 m <sup>3</sup>	×	×	×			х			×	×	×	×						
		0.90 m <sup>3</sup>	×	×	×		×	x		×	×	×	×	×			×			×
	GSM25	0.40 m <sup>3</sup>	×	×	×							×	×	×						
		0.50 m <sup>3</sup>	×	×	×							×	×	×						
orange peer grappie (5 dnes)	GSH-15	0.40 m <sup>3</sup>	×	×	×			×			×	×	×	×			×			×
		0.50 m <sup>3</sup>	×	×	×		×	×		×	×	×	×	×			×			×

Recommended

× Not Recommended

# Lift capacities

with 5260 mm Variable adjustable boom and Quick Coupler CW. All weights are in kg.

Stick
Otion
2200
2200 IIIIII

110	Undercarriage		3.0 m			4.5 m			6.0 m			7.5 m					
관	configuration	Ľ	R		Ľ	6		Ľ	R		ŀ	P		ŀ	P	P	m
6.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*5800 *5800 *5800 *5800	*5800 *5800	5000 5700 *5800 *5800	4900 *5300 *5300 *5300	*5300 4200	3100 3500 *5300 5100							
4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*8700 *8700 *8700	*8700 *8700	*8700 *8700 *8700 *8700 *8700	*6700 *6700 *6700	*6700 *6700	4900 5500 6600 *6700 *6700	4900 *5600 *5600	*5600 *5600	3200 3600 4300 *5600 5100							
3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*8800 *8800 *8800	*8800 *8800	8600 *8800 *8800 *8800 *8800	7400 *8100 *8100	*8100 *8100	4700 5400 6400 *8100 7600	4900 *6200 *6200	*6200 *6200	3200 3600 4300 5800 5000	3300 *5000 *5000	*5000 4600	2000 2300 2800 4100 3400	*2800 *2800 *2800	*2800 *2800	1700 2000 2400 *2800 *2800	8.19
1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*11 400 *11 400 *11 400	*11 400 *11 400	8300 *9600 *11 400 *11 400 *11 400	7300 *9200 *9200	*9200 *9200	4700 5300 *6300 8800 7500	4900 *6600 *6600	*6600 *6400	3100 3500 4200 5800 5000	3200 *5300 *5300	5000 4500	1900 2200 2700 4000 3300	2800 *3000 *3000	*3000 *3000	1600 1900 2300 *3000 2900	8.29
Ground	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*13 900 *13 900 *13 900	*13 900 *13 900	8100 9500 11 900 *13 900 *13 900	*7300 *9400 *9400	*9400 *9400	4500 5200 6300 *8900 7600	4700 *6800 *6800	*6800 6500	2900 3300 4000 5800 4800	3100 *5100 *5100	4900 4400	1900 2100 2700 3900 3300	2800 *3200 *3200	*3200 *3200	1700 1900 2400 *3200 2900	8.07
-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	14 500 *15 200 *15 200	*15 200 *15 200	7800 9200 11 700 15 200 14 800	7300 *9500 *9500	*9500 *9500	4300 5000 6100 9200 7500	4400 *6900 *6900	*6900 6400	2700 3100 3800 5600 4600				3100 *3800 *3800	*3800 *3800	1900 2100 2700 *3800 3300	7.51
-3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	14 700 *15 700 *15 700	*15 700 *15 700	7800 9200 11 700 *15 700 *15 100	7000 *9300 *9300	*9300 *9300	4100 4700 5800 8900 7200	4300 *4600 *4600	*4600 *4600	2600 3000 3700 *4600 4500				3900 *3900 *3900	*3900 *3900	2300 2700 3300 *3900 *3900	6.49

### Stick

2500 mm

	Undercarriage	3.0 m				4.5 m			6.0 m		7.5 m						
<u>S</u>	configuration	ų	R	P	ŀ	R	P	ŀ	R	æ	ŀ	P	P	ŀ	R	æ	m
6.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down							*4800 *4800 *4800	*4800 *4800	3200 3600 4300 *4800 *4800							
4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*6200 *6200 *6200	*6200 *6200	4900 5500 *6200 *6200 *6200	4900 *5400 *5400	*5400 *5400	3200 3600 4300 *5400 5100	3300 *3400 *3400	*3400 *3400	2000 2300 2800 *3400 *3400				
3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*9500 *9500 *9500	*9500 *9500	8500 *9500 *9500 *9500 *9500	7400 *7800 *7800	*7800 *7800	4700 5400 6400 *7800 7600	4800 *6000 *6000	*6000 *6000	3100 3600 4200 5800 *5000	3300 *5000 *5000	*5000 4600	2000 2300 2800 4100 3400	*2200 *2200 *2200	*2200 *2200	1600 1900 *2200 *2200 *2200	6.49
1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*11 200 *11 200 *11 200	*11 200 *11 200	8300 9500 *11 200 *11 200 *11 200	7300 *9000 *9000	*9000 *9000	4600 5300 *6300 8800 7400	4800 *6500 *6500	*6500 6400	3100 3500 4200 5800 *4900	3200 *5200 *5200	5000 4500	2000 2300 2800 4000 3400	*2200 *2200 *2200	*2200 *2200	1500 1800 2200 *2400 *2400	8.60
Ground	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*13 300 *13 300 *13 300	*13 300 *13 300	8200 9600 11 800 *13 300 *13 300	7300 *9300 *9300	*9300 *9300	4500 5200 6300 *8800 7500	4700 *6700 *6700	*6700 6400	2900 3300 4100 5800 4900	3100 *5200 *5200	4900 4400	1900 2200 2700 3900 3300	*2400 *2400 *2400	*2400 *2400	1500 1800 2200 *2400 *2400	8.39
-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	14 300 *15 100 *15 100	*15 100 *15 100	7800 9200 11 700 *15 100 14 700	7300 *9400 *9400	*9400 *9400	4300 5000 6100 9000 7500	*4500 *6900 *6900	*6900 6400	2700 3100 3800 5600 4700				*2800 *2800 *2800	*2800 *2800	1700 2000 2500 *2800 *2800	7.86
-3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	14 600 *15 600 *15 600	*15 600 *15 600	7800 9100 11 600 *15 600 15 100	7000 *9700 *9700	*9700 *9700	4100 4800 5900 9000 7300	4300 *5700 *5700	*5700 *5700	2600 3000 3700 5500 4500				*3500 *3500 *3500	*3500 *3500	2100 2400 3000 *3500 *3500	6.90
-4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*11 400 *11 400 *11 400	*11 400 *11 400	7600 9000 *11 400 *11 400 *11 400													

### Stick

2800 mm

	Undercarriage	3.0 m			4.5 m			6.0 m			7.5 m						
2	configuration	Ľ.	P	P	ľ.	Ę	P	ľ	P	P	ß	R	P	ľ	R	9	m
6.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down							*4400 *4400 *4400	*4400 *4400	3200 3700 4300 *4400 *4400							
4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*5300 *5300 *5300	*5300 *5300	4900 *5300 *5300 *5300 *5300	*4900 *5100 *5100	*5100 *5100	3200 3600 4300 *5100 5100	3400 *3800 *3800	*3800 *3800	2100 2400 2900 *3800 3500				
3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*9300 *9300 *9300	*9300 *9300	8600 *9300 *9300 *9300 *9300	*7400 *7400 *7400	*7400 *7400	4800 5400 6400 *7400 *7400	4800 *5800 *5800	*5800 *5800	3100 3500 4200 *5800 5000	3400 *4900 *4900	*4900 4600	2100 2400 2900 4100 3500	*1900 *1900 *1900	*1900 *1900	1500 1700 *1900 *1900 *1900	8.80
1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*11 700 *11 700 *11 700	*11 700 *11 700	8300 9500 11 700 *11 700 *11 700	7200 *8700 *8700	*8700 *8700	4600 5300 6200 *8700 7400	4800 *6400 *6400	*6400 *6400	3100 3500 4200 5800 4900	3300 *5100 *5100	5000 4600	2000 2300 2800 4100 3400	*2000 *2000 *2000	*2000 *2000	1400 1700 *2000 *2000 *2000	8.89
Ground	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*13 200 *13 200 *13 200	*13 200 *13 200	8300 9500 11 700 *13 200 *13 200	7200 *9300 *9300	*9300 *9300	4600 5200 6300 *8800 7500	*4800 *6700 *6700	*6700 *6400	3000 3400 4100 5800 4900	3200 *5200 *5200	5000 4500	1900 2200 2700 4000 3300	*2200 *2200 *2200	*2200 *2200	1400 1700 2100 *2200 *2200	8.69
-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	14 200 *14 900 *14 900	*14 900 *14 900	7800 9200 11 700 *14 900 14 500	7300 *9400 *9400	*9400 *9400	4300 5000 6100 8900 7500	4500 *6800 *6800	*6800 6500	2700 3200 3900 5700 4700	3100 *4700 *4700	*4700 4400	1800 2100 2600 3900 3200	*2500 *2500 *2500	*2500 *2500	1600 1800 2300 *2500 *2500	8.17
-3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	14 500 *15 400 *15 400	*15 400 *15 400	7700 9100 11 600 *15 400 15 000	7100 *9700 *9700	*9700 *9700	4200 4800 6000 9000 7400	4300 *6300 *6300	*6300 6300	2600 3000 3700 5500 4500				*3100 *3100 *3100	*3100 *3100	1900 2200 2800 *3100 *3100	7.27
-4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*13 200 *13 200 *13 200	*13 200 *13 200	7600 9000 11 500 *13 200 *13 200	*6500 *6500 *6500	*6500 *6500	4000 4600 5700 *6500 *6500										

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Load Point Height

ŀ Load Radius Over Front

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Load Radius Over Rear 🛛 🚰 🛛 Load Radius Over Side 🚅 📉

Load at Maximum Reach

\* Limited by hydraulic rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity ratings standard ISO 10567, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Weight of all tools and lifting accessories must be deducted from the above lifting capacities.

**Lift capacities** with 5350 mm One-piece boom and Quick Coupler CW. All weights are in kg.

Stick 2200 mm

	Undergarriago	3.0 m			4.5 m			6.0 m			7.5 m						
2	configuration	ų	ĥ	C P	Ľ.	ĥ	C P	Ľ	P	P	ľ	P	P	Ŀ	P	P	m
6.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down							4900 *5200 *5200	*5200 *5200	3100 3500 4200 *5200 5100							
4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*6500 *6500 *6500	*6500 *6500	4700 5400 6500 *6500 *6500	4800 *5500 *5500	*5500 *5500	3000 3400 4100 *5500 5000							
3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				7200 *8000 *8000	*8000 *8000	4300 5000 6100 *8000 7400	4600 *6100 *6100	*6100 *6100	2800 3200 3900 5800 4800	3200 *5100 *5100	5000 4500	2000 2300 2800 4000 3400	2900 *3000 *3000	*3000 *3000	1700 2000 2400 *3000 3000	8.22
1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				6800 *9200 *9200	*9200 *9200	4000 4600 5700 8700 7000	4400 *6600 *6600	*6600 6300	2700 3100 3800 5600 4600	3200 *5300 *5300	5000 4400	1900 2200 2700 4000 3300	2700 *3200 *3200	*3200 *3200	1700 1900 2300 *3200 2900	8.31
Ground	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				6600 *9400 *9400	*9400 *9400	3800 4400 5500 8500 6800	4300 *6800 *6800	*6800 6200	2600 3000 3600 5400 4500	3100 *5200 *5200	4900 4400	1900 2200 2600 3900 3200	2800 *3500 *3500	*3500 *3500	1700 1900 2400 *3500 2900	8.09
-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				6500 *8800 *8800	*8800 *8800	3800 4400 5400 8400 6800	4200 *6500 *6500	*6500 6100	2500 2900 3600 5400 4400				3100 *4100 *4100	*4100 *4100	1900 2200 2600 3900 3200	7.53
-3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*9800 *9800 *9800	*9800 *9800	7100 8400 *9800 *9800 *9800	6600 *7300 *7300	*7300 *7300	3800 4400 5500 *7300 6900	4300 *5100 *5100	*5100 *5100	2600 3000 3700 *5100 4500				3900 *4400 *4400	*4400 *4400	2300 2700 3300 *4400 4000	6.53

### Stick

2500 mm

	Undercarriage	3.0 m			4.5 m				6.0 m			7.5 m						
<u>S</u>	configuration	Ľ	6	F	Ľ	P	P	Ľ	Ŗ	P	Ľ	P	P	Ľ	P	P	m	
6.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down							*4800 *4800 *4800	*4800 *4800	3100 3500 4200 *4800 *4800								
4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down							4800 *5200 *5200	*5200 *5200	3000 3400 4100 *5200 5000	3300 *3600 *3600	*3600 *3600	2000 2300 2800 *3600 3400					
3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				7300 *7700 *7700	*7700 *7700	4400 5000 6100 *7700 7500	4600 *5900 *5900	*5900 *5900	2900 3300 4000 5800 4800	3200 *5000 *5000	*5000 4500	2000 2300 2800 4100 3400	*2300 *2300 *2300	*2300 *2300	1600 1900 2300 *2300 *2300	8.53	
1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				6800 *9000 *9000	*9000 *9000	4000 4600 5700 8700 7100	4400 *6500 *6500	*6500 6300	2700 3100 3800 5600 4600	3200 *5200 *5200	5000 4400	1900 2200 2700 4000 3300	*2500 *2500 *2500	*2500 *2500	1500 1800 2200 *2500 *2500	8.62	
Ground	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				6600 *9400 *9400	*9400 *9400	3800 4400 5500 8500 6800	4300 *6800 *6800	*6800 6200	2500 2900 3600 5400 4400	3100 *5300 *5300	4900 4400	1800 2100 2600 3900 3200	2600 *2700 *2700	*2700 *2700	1600 1800 2200 *2700 *2700	8.41	
-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*8100 *8100 *8100	*8100 *8100	6800 8100 *8100 *8100 *8100 *8100	6500 *9000 *9000	*9000 *9000	3700 4300 5400 8400 6700	4200 *6600 *6600	*6600 6100	2500 2900 3600 5300 4400				2900 *3100 *3100	*3100 *3100	1700 2000 2500 *3100 3000	7.88	
-3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*10 600 *10 600 *10 600	*10 600 *10 600	7000 8300 *10 600 *10 600 *10 600	6500 *7700 *7700	*7700 *7700	3800 4400 5400 *7700 6800	4200 *5500 *5500	*5500 *5500	2500 2900 3600 5400 4400				3500 *4000 *4000	*4000 *4000	2100 2400 3000 *4000 3600	6.93	
-4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*4800 *4800 *4800	*4800 *4800	4000 4600 *4800 *4800 *4800											

Stick	
2800	mm

			3.0 m			4.5 m			6.0 m			7.5 m				So .	
<u>S</u>	configuration	U	R	P	ľ	P	P	ľ	P	G	Ľ	P	P	Ŀ	P	P	m
6.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down							*4500 *4500 *4500	*4500 *4500	3200 3600 4300 *4500 *4500							
4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down							4800 *5000 *5000	*5000 *5000	3100 3500 4200 *5000 *5000	3300 *3900 *3900	*3900 *3900	2100 2400 2900 *3900 3500				
3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*7300 *7300 *7300	*7300 *7300	4400 5100 6200 *7300 *7300	4600 *5700 *5700	*5700 *5700	2900 3300 4000 *5700 4800	3300 *4800 *4800	*4800 4600	2000 2300 2800 4100 3400	*2100 *2100 *2100	*2100 *2100	1500 1800 *2100 *2100 *2100	8.81
1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				6800 *8700 *8700	*8700 *8700	4000 4600 5700 *8700 7100	4400 *6400 *6400	*6400 *6400	2700 3100 3800 5600 4600	3200 *5100 *5100	5000 4400	1900 2200 2700 4000 3300	*2200 *2200 *2200	*2200 *2200	1500 1700 *2100 *2200 *2200	8.90
Ground	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*4700 *4700 *4700	*4700 *4700	*4700 *4700 *4700 *4700 *4700 *4700	6600 *9400 *9400	*9400 *9400	3800 4400 5500 8500 6800	4300 *6700 *6700	*6700 6200	2500 2900 3600 5400 4400	3100 *5200 *5200	4900 4400	1800 2100 2600 3900 3200	*2400 *2400 *2400	*2400 *2400	1400 1700 2100 *2200 *2200	8.70
-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*7800 *7800 *7800	*7800 *7800	6700 *7800 *7800 *7800 *7800 *7800	6400 *9100 *9100	*9100 *9100	3700 4300 5400 8300 6700	4200 *6600 *6600	*6600 6100	2500 2800 3500 5300 4400	3000 *5000 *5000	4800 4300	1800 2100 2600 3800 3200	2700 *2800 *2800	*2800 *2800	1600 1900 2300 *2800 *2800	8.19
-3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*11 300 *11 300 *11 300	*11 300 *11 300	6900 8100 10 500 *11 300 *11 300	6500 *8000 *8000	*8000 *8000	3700 4300 5400 *8000 6700	4200 *5800 *5800	*5800 *5800	2500 2900 3500 5300 4400				3200 *3500 *3500	*3500 *3500	1900 2200 2700 *3500 3400	7.29
-4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*7800 *7800 *7800	*7800 *7800	7100 *7800 *7800 *7800 *7800 *7800	*5600 *5600 *5600	*5600 *5600	3900 4500 5600 *5600 *5600										

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Load Point Height

ŀ Load Radius Over Front

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Load Radius Over Rear 🛛 🛱 Load Radius Over Side 🖨 📉 Load at Maximum Reach

\* Limited by hydraulic rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity ratings standard ISO 10567, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Weight of all tools and lifting accessories must be deducted from the above lifting capacities.

# **VA Boom Working Ranges**

5260 mm Variable adjustable boom, quick coupler and bucket



# **One-piece Boom Working Ranges**

5350 mm One-piece boom, quick coupler and bucket



Stick Length	mm	2200	2500	2800
A Maximum				
Digging Height	mm	8760	9010	9170
<b>B</b> Maximum				
Dump Height	mm	5900	6110	6270
<b>C</b> Maximum				
Digging Depth	mm	5700	6000	6300
<b>D</b> Maximum Vertical				
Wall Digging Depth	mm	2880	3340	3620
<b>E</b> Maximum Depth 2500 mm				
Straight Clean-up	mm	5488	5805	6119
<b>F</b> Maximum Reach	mm	9180	9490	9770
<b>G</b> Maximum Reach				
at Ground Level	mm	9000	9320	9600
Bucket Forces (ISO 6015)	kN	118	118	118
Stick Forces (ISO 6015)	kN	95	85	79

### **Standard Equipment**

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

#### **Operator Station**

Ash tray with cigarette lighter Bi-level air conditioner with automatic climate control Bolt-on FOGS capability Bottom mounted parallel wiper and washer Coat hook Drink holder Filtered ventilation Floormat, washable Fully adjustable suspension seat Heater and defroster Joysticks, adjustable LH console, tiltable Light, interior Literature holder Low fuel indicator light Openable two-piece front windscreen Parking brake Pre-wired radio mounting Polycarbonate skylight Power supply 12V - 7A Retractable seat belt Steering column, tiltable Storage compartment suitable for a lunch box Sun visor

#### Language display WEX Multipro

Clock with 10 day backup battery Filter / fluid change information Gauges for fuel level, engine coolant temperature and hydraulic oil temperature Headlights indicator Indicator for engine dial setting Pre-start level check for hydraulic oil, engine oil and coolant Turn signal indicator Warning messages Working hour information

#### Engine

Automatic engine speed control Automatic starting aid Cat 3056E ATAAC Stage II engine, turbocharged with air-to-air aftercooler Muffler

### Undercarriage

Oscillating front axle Pin-on design preparation for dozer blade an outriggers 10.00-20 14PR tires Tool box Two-piece drive shaft

#### **Hydraulics**

Cat X-6 ES hoses Load-sensing plus hydraulic system Manual work modes (economy, power, travel) Oil cooler Separate swing pump Stick regeneration circuit

### Electrical

Alternator, 55A Boom working light Heavy-duty maintenance-free batteries Horn Main shut-off switch Roading lights

### **Other equipment**

Automatic swing brake Mirrors, frame and cab Door locks and caps locks with Caterpillar one-key security system

# **Optional Equipment**

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

### **Operator Station**

Falling objects guard Vandalism guard WEX comfort seat with seat heating and air suspension Fixed one-piece front windscreen Travel speed lock Visor, rain protection, polycarbonate Headrest Lid for storage compartment Fixed cab riser (1200 mm)

### Electrical

Back-up alarm Refueling pump Working lights, cab mounted (front and rear)

### **Booms and Sticks**

Hydraulically adjustable boom (5260 mm) One-piece-boom (5350 mm) 2200 mm stick 2500 mm stick 2800 mm stick

#### Undercarriage

Dozer blade, front or rear mounted Optional tires Outriggers, front or rear mounted Second tool box Wide dozer blade, front or rear mounted Wide gauge axles (2750 mm)

### **Hydraulics**

Control group for quick coupler Generator valve with priority function Hammer valve

- Hydraulic lines for quick coupler boom and stick
- Lowering control devices for boom and stick
- Multifunction valve, provides up to 5 programmed tools and tool selection from the cab (including hammer function)
- Synthetic ester based biodegradable hydraulic oil

### Other equipment

Cat Machine security system Cat Product Link Custom paint

### M318C Wheel Excavator

HEHH2839 (11/2002) hr

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Caterpillar dealer for available options. www.CAT.com © 2002 Caterpillar



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