

Cat® C4.4 engine with ACERT™ Technolog	gy
Net power (ISO 9249) at 2000 rpm	95 kW/129 hp
Operating weight	14 000 to 16 200 kg
Bucket capacities	0.18 to 0.92 m <sup>3</sup>
Maximum reach at ground level	9770 mm
Maximum digging depth	5750 mm
Maximum travel speed	37 km/h

### **M313D Wheel Excavator**

The D Series incorporates innovations for improved performance and versatility.

### **Engine**

✓ Caterpillar's exclusive ACERT<sup>TM</sup>
Technology surpasses the most stringent emissions requirements in the construction industry. The EU Stage IIIA compliant C4.4 offers increased performance and reliability while reducing fuel consumption and sound levels. pg. 4

### **Hydraulics**

✓ The state of the art load-sensing hydraulic system combined with a separate dedicated swing pump provides fast cycle times, increased lift capacity and high bucket and stick forces. This combination maximizes your productivity in any job. pg. 5

### **Operator Comfort**

✓ The totally redesigned operator station maximizes comfort while increasing safety. The available auto-weight adjusted air-suspension seat with heated and cooled ventilated cushions improves operator comfort. Safety is enhanced by the new color monitor and optional rear-mounted camera. pg. 6

### **Environmentally Responsible Design**

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

#### SmartBoom™

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



2

### **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. 8

#### **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. 9** 

### Versatility

Caterpillar offers a wide variety of factory-installed attachments that enhance performance and job site management. **pg. 12** 

### Serviceability

For increased safety, all daily maintenance points are accessible from ground level. A centralized greasing system allows lubrication of critical points. pg. 10

### **Complete Customer Service**

Your Cat® dealer offers a wide range of services that can be set up under a customer support agreement when you purchase your equipment. Your dealer will help you choose a plan that can cover everything from machine and attachment selection to replacement. pg. 10



## **Engine**

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



#### **Powerful Performance.**

The Cat C4.4 engine with ACERT Technology introduces a series of evolutionary, incremental improvements that provide breakthrough engine performance. The building blocks of ACERT Technology are fuel delivery, air management and electronic control. ACERT Technology optimizes engine performance while meeting

EU Stage IIIA engine emission regulations. The Cat C4.4 engine in the M313D delivers a maximum gross power of 102 kW at a rated speed of 2000 rpm. This is 12% more horsepower as compared to the 3054E in the M313C.

### Low Fuel Consumption.

The C4.4 is electronically controlled and uses the new Cat Common Rail Fuel System and fuel pump.

This combination provides outstanding fuel consumption during both production and travel. When the system recognizes roading application the engine will operate at the most efficient system operating point to save fuel without compromising road performance.

#### Low Noise, Low Vibration.

The Cat C4.4 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 nsumption 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.

## **Environmentally Responsible Design**

The M313D helps build a better world and preserve the fragile environment.

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

**Low Exhaust Emissions.** The EU Stage IIIA compliant Cat C4.4 offers increased performance and reliability while reducing fuel consumption and sound levels.

**Quiet Operation.** Operator and spectator noise levels are extremely low as a result of the new variable speed fan and remote cooling system.

### Biodegradable Hydraulic Oil.

The optional biodegradable hydraulic oil (HEES<sup>TM</sup>) is formulated to provide excellent high-pressure and high temperature characteristics, and is fully compatible with all hydraulic components. HEES is fully decomposed by soil or water microorganisms, providing a more environmentally sound alternative to mineral-based oils.

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

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

# **Hydraulics**

Load-sensing hydraulic system provides fast cycle times, increased lift capacity and high bucket and stick forces to maximize your productivity in any job.

**Dedicated Swing Pump.** A dedicated variable displacement piston pump and fixed displacement piston motor power the swing mechanism. This closed hydraulic circuit maximizes swing performance without reducing power to the other hydraulic functions, resulting in smoother combined movements.

**Heavy Lift Mode.** This mode maximizes lifting performance by boosting the lifting capability of the excavator by 7%. Heavy loads can be easily moved in the full working range of the machine, maintaining excellent stability.

### Adjustable Hydraulic Sensitivity.

This function allows the operator to adjust the aggressiveness of the machine according to the application. For precision work, one of four different levels of aggressiveness can be preselected.

### **Proportional Auxiliary Hydraulics.**

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

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



- A dedicated Hammer circuit is the best option for tools that require one-way flow only, and do not require the flexibility provided by the Multi-Combined Valve.
- The Medium Pressure Function Valve provides proportional flow that is ideal for tilting buckets or rotating tools.
- A new feature for the D-Series
   Wheel Excavators is the optional
   second High Pressure valve.
   In combination with the Multi Combined Valve, it provides the
   possibility to operate the machine
   with work tools or in applications
   requiring a third auxiliary hydraulic
   function, such as a tilting/rotating
   quick coupler.



**Stick Regeneration Circuit.** The stick regeneration circuit increases efficiency and helps increase controllability for higher productivity and lower operating costs.

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

**Hydraulic Snubbers.** Caterpillar integrates its cylinder snubber technology into all Wheel Excavator boom, stick and bucket cylinders. These snubbers help cushion shocks, reduce sound and increase cylinder life.

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

**SmartBoom.** Reduces stress and vibrations transmitted to the machine and provides a more comfortable environment.



**Rock Scraping.** Scraping rock and finishing work is easy and fast. SmartBoom simplifies the task and allows the operator to concentrate on stick and bucket, while boom freely goes up and down without using pump flow.



Hammer Work. The front parts automatically follow the hammer while penetrating the rock. Blank shots or excessive force on the hammer are avoided resulting in longer life for the hammer and the machine. Similar advantages with vibratory plate compactors.



**Truck Loading.** Loading trucks from a bench is more productive and fuel efficient as the return cycle is reduced while the boom down function does not require pump flow.

# **Operator Comfort**

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



**Interior Operator Station.** Improved visibility and ergonomics are some of the many new features of the D-Series Wheel Excavators. The pressurized operator station provides maximum space and is designed for simplicity and functionality. Frequently used switches are centralized and are situated on the right-hand switch console. The left-hand seat console controls dozer blade and/or outriggers, and is tiltable for easy access to the cab. The fully automatic climate control adjusts temperature and air flow for exceptional operator comfort. Other comfort features include a cigar lighter, ashtray, cup/can holder, magazine rack and integrated mobile phone holder.

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

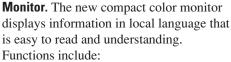




Viewing Area. To maximize visibility, all glass is affixed directly to the cab, eliminating the use of window frames. Choice of fixed or easy-to-open split front windshield meet operator preference and application conditions.

- The 50/50 split front windshield allows both upper and lower portions to be stored in an overhead position and features the one-touch action release system.
- The 70/30 split front windshield stores the upper portion above the operator.
   The lower front windshield features a rounded design to maximize downward visibility and improves wiper coverage.
   Also features the one-touch action release system.
- The fixed front windshield comes with high impact resistant laminated glass.
- A unique large skylight without cross bar provides superb upward visibility. The retractable sunscreen blocks direct sunlight.





- 5 programmable "Quick Access" buttons for one-touch selection of favorite functions.
- Filter and oil change warnings are displayed when the number of hours reaches the maintenance interval.
- Tool select function allows the operator to select up to 10 pre-defined hydraulic work tools.
- Adjustable braking characteristics enable the operator to select three levels of travel motor retarder aggressiveness when releasing the travel pedal.
- Provides a rear camera view that is activated through the monitor menu.
   The optional camera is mounted on the counterweight.







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

**Heated Mirrors.** Another new feature is electrically heated mirrors, increasing safety and visibility in cold conditions.

**Wipers.** The parallel wiper system maximizes visibility in poor weather conditions. The wiper virtually covers the entire front windshield, cleaning the operator's immediate line of sight.







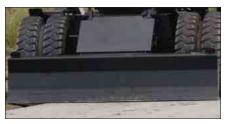
**Lunch Box.** A large, cooled storage compartment is located behind the operator's seat. The compartment provides sufficient room to store items such as a lunch box. An optional cover secures the contents during machine operation.

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

# **Undercarriage**

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





**Increased Travel Speed.** The maximum travel speed for the D-Series excavators has been increased from 34 to 37 km/h, reducing travel time between sites and increasing productivity.

### Heavy-Duty Axles and Stabilizers.

The D-Series undercarriage with pin on/bolt on design provides excellent flexibility, rigidity and long life. Effective hydraulic line routing, transmission protection and heavy-duty axles make the undercarriage perfect for wheel excavator applications. The front axle offers wide oscillating and steering angles. The transmission is mounted directly on the rear axle for protection and optimum ground clearance.

### Advanced Disc Brake System.

The disc brake system acts directly on the hub instead of the drive shaft to avoid planetary gear backlash. This solution eliminates the rocking effect associated with working free on wheels. The axle design lowers maintenance and lifetime costs. Oil change intervals are at 2000 working hours, further reducing owning and operating costs.

**Fenders.** The optional fenders provide excellent coverage of the front and rear tires, protecting the machine from mud and dirt. Water cannot splash up on the windscreen or cooler. The fenders further protect the machine from stones and debris being thrown up by the tires, providing additional safety for the machine, other vehicles and personnel working close to the excavator.

**Adjustable Travel Alarm.** An adjustable travel alarm is available to warn people when the machine is moving. Three settings can be selected through the monitor:

- Auto mode alarm will stop sounding immediately when the machine is no longer traveling, or has been sounding for an uninterrupted 10-second interval.
- Standard mode alarm operates constantly during moving, with only manual cancellation.
- Off mode travel alarm is disabled.

## **Booms and Sticks**

Designed for maximum flexibility to keep production high on all jobs.



**Design.** Booms and sticks are welded, box section structures with thick, multiplate fabrications in high stress areas, for rugged performance and long service life.

**Flexibility.** The choice of 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.

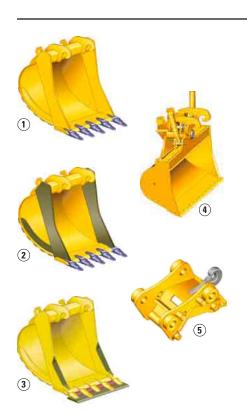
**Offset Boom.** The large offset dimensions (left/right 2460/2760 mm) allow you to dig along walls, over obstacles, to grade while driving, and to dig under laid tubes without damaging them. The combination with a tiltable ditch cleaning bucket lets you operate a highly versatile system.

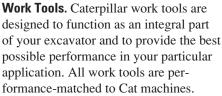
**Sticks.** Four different stick lengths are offered to match different application requirements:

- Short stick (2000 mm) for maximum breakout force and lifting capability.
- Medium stick (2300 mm) for greater crowd force and lift capacity.
- Long stick (2600 mm) for greater depth and reach requirements.
- Industrial stick (2900 mm) for use with free-swinging grapples in material handling and industrial applications.

## **Work Tools**

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





**Quick Couplers.** Quick Couplers enable the operator to simply release one work tool and connect to another, making your hydraulic excavator highly versatile. Productivity also increases, as a carrier no longer needs to be idle between jobs. Caterpillar offers hydraulic and spindle quick coupler versions.

**Buckets.** Caterpillar offers a wide range of specialized buckets, each designed and tested to function as an integral part of your excavator.

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









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

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

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

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

#### **Vibratory Plate Compactors.**

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

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

# **Serviceability and Complete Customer Support**

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





**Ground Level Maintenance.** Caterpillar designed its D-Series Wheel Excavators with the operator and service technician in mind. Gull-wing doors, with pneumatically-assisted lift cylinders, effortlessly lift up to allow critical maintenance to be performed quickly and efficiently while maintaining operator safety.

Extended Service Intervals. The D Series Wheel Excavator service and maintenance intervals have been extended to reduce machine service time, increase machine availability and reduce operating costs. Using S•O•S Scheduled Oil Sampling analysis, hydraulic oil change intervals can be extended up to 4000 hours. Engine coolant change intervals are 12 000 hours with Cat Extended Life Coolant.

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

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

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

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

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

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

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



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

### **Swing-out Air Conditioner Condenser.**

The Air Conditioning condenser swings out horizontally to allow complete cleaning on both sides as well as excellent access to the air-to-air aftercooler.

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

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

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



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

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

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





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

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

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

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

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



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

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

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

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

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

# Versatility

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



**Tool Control.** The integrated Tool Control system allows the operator to select up to 10 pre-set combinations. This eliminates the need to re-set the hydraulic parameters each time a tool is changed. Individual flow and pressure can be programmed easily as well as one-way/two-way hydraulic functions. Each of the tenprogrammed tools can even be given a specific name. The unique Cat proportional sliding switches and optional auxiliary pedal provide modulation to the tool to make precision work easy.

Joystick Steering. The unique joystick steering option enables an operator to reposition the machine while traveling in first gear by the use of the slider switch on the right joystick. This enables the operator to keep both hands on the joysticks while simultaneously moving the implements and traveling. The operator can do more precise work faster with increased safety around the machine.

**Control Settings.** There are 2 selectable control settings and one automatic travel setting. The new automatic travel mode is activated with a button in the right hand console. In this setting, the transmission will automatically shift up or down, depending on the speed conditions. The operator can choose the best power setting for both engine and hydraulic power versus fuel efficiency.

- Economy Mode used for lifting, pipe setting, grading, slope finishing and precise work while reducing fuel consumption.
- Power Mode used for normal truck loading and digging applications, trenching or hammer use.
- Travel Mode automatically set when the travel pedal is actuated. It provides maximum speed and drawbar pull.

**Product Link.** Product Link can assist with Fleet Management to keep track of hours, location, security and product health. The machine is pre-wired to accept Product Link systems to be installed in the field. Product Link is also available as a factory installed attachment.

**Machine Security.** An optional Machine Security System is available from the factory. This system controls who can operate the machine when, and utilizes specific keys to prevent unauthorized machine use.

**Ride Control.** New for the D Series, the ride control system improves operator comfort and allows the machine to travel faster over rough terrain with improved ride quality for the operator. The ride control system features accumulators

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





# **Engine**

Cat C4.4 with ACE	RT Technology
Ratings	2000 rpm
Gross power	102 kW/139 hp
Net power	
ISO 9249	95 kW/129 hp
80/1269/EEC	95 kW/129 hp
Bore	105 mm
Stroke	127 mm
Displacement	4.4 liters
Cylinders	4
Maximum torque at	1400 rpm 550 Nm

- All engine horsepower (hp) are metric including front page.
- EU Stage IIIA compliant.
- Full engine net power up to 3000 m altitude.

# **Hydraulic System**

Tank capacity	95 liters
System	180 liters
Maximum pressure	
Implement circuit	
normal	350 bar
heavy lift	375 bar
Travel circuit	350 bar
Auxiliary circuit	
high pressure	350 bar
medium pressure	185 bar
Swing mechanism	350 bar
Maximum flow	
Implement/travel circuit	190 l/min
Auxiliary circuit	
high pressure	190 l/min
medium pressure	50 l/min
Swing mechanism	80 l/min

### Cab

FOGS meets ISO 10262.

### **Sound Levels**

### **Operator Sound**

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

#### **Exterior Sound**

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

## **Transmission**

	km/h
Forward/reverse	
1st gear	9
2nd gear	37
Creeper speed	
1st gear	3
2nd gear	13
Drawbar pull	76 kN
Maximum Gradeability	58%

# **Swing Mechanism**

Swing speed	10.5 rpm
Swing torque	35 kNm

## Tires

#### Standard

• 10.00-20 (dual pneumatic)

#### Optional

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

# **Undercarriage**

	mm
Ground clearance	370
Maximum steering angle	35°
Oscillation axle angle	± 9°
Minimum turning radius	
Standard axle	
outside of tire	6200
end of VA boom	6700
end of one-piece boom	8100

# **Service Refill Capacities**

	Liter
Fuel tank	235
Cooling	26
Engine crankcase	8
Rear axle housing (differential)	11.2
Front steering axle (differential)	9
Final drive	2.4
Powershift transmission	2.5

# Weights

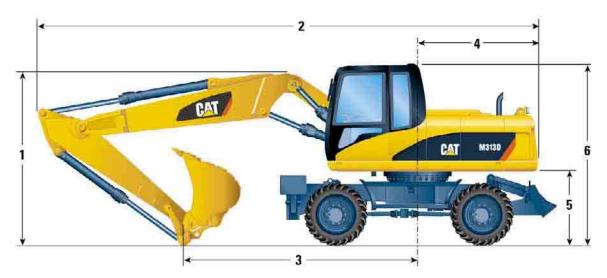
VA boom*	kg
rear dozer only	13 800
rear dozer, front outriggers	14 750
front and rear outriggers	15 050
One-piece boom*	
rear dozer only	13 350
rear dozer, front outriggers	14 300
front and rear outriggers	14 600
Offset boom*	_
rear dozer only	14 300
rear dozer, front outriggers	15 250
front and rear outriggers	15 550

Sticks	kg
short (2000 mm)	370
medium (2300 mm)	390
long (2600 mm)	440
industrial (2900 mm)	380
Dozer blade	750
Outriggers	960
Counterweight	
standard	2900
optional	3300
Machine weight with medium stick. 3	300 ka countei

Machine weight with medium stick, 3300 kg counterweight, full fuel tank and operator, without work tool.

# **Dimensions**

All dimensions are approximate.



			VA E	Boom		(	One-pie	ce Booi	m	Offset	Boom
Stick length	mm	2000	2300	2600	*2900	2000	2300	2600	*2900	2000	2300
1 Shipping height	mm	3120	3120	3120	3120	3120	3120	3120	3120	3120	3120
2 Shipping length	mm	8310	8300	8290	8130	8090	8080	8090	7950	8300	8300
<b>3</b> Support point	mm	3820	3470	3320	3580	3480	3120	2950	3170	3820	3460
4 Tail swing radius	mm		20	50			20	50		20	50
<b>5</b> Counterweight clearance	mm		12	230			12	30		12	230
6 Cab height	mm		31	20			31	20		31	20
with 1200 mm fixed cab riser	mm		43	20			43	20		43	20

<sup>\*</sup> Industrial stick







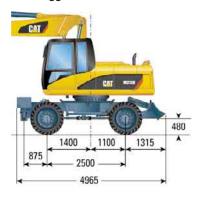
# Undercarriage with dozer only



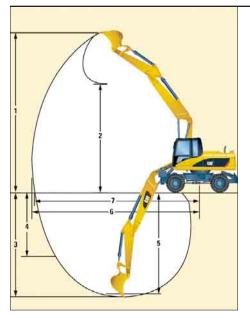
# Undercarriage with 2 sets of outriggers

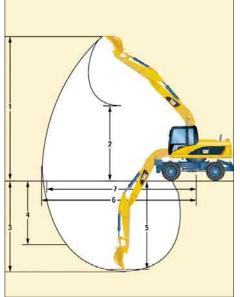


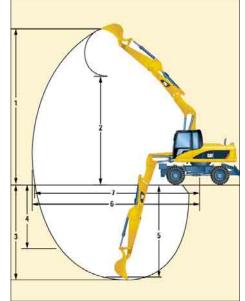
# Undercarriage with 1 set of outriggers and dozer



# **Working Ranges**







			VA E	Boom			One-pie	Offset Boom			
Stick length	mm	2000	2300	2600	*2900	2000	2300	2600	*2900	2000	2300
1 Digging height	mm	9670	9820	10060	8500	8600	8620	8790	7140	9670	9820
2 Dump height	mm	6900	7060	7290	4020	5910	5970	6140	3160	6900	7060
<b>3</b> Digging depth	mm	5160	5450	5750	4670	4990	5290	5590	4500	5160	5450
4 Vertical wall digging depth	mm	3500	3600	3890	_	3410	3370	3670	_	3500	3600
<b>5</b> Depth 2.5 m straight clean-up	mm	4920	5230	5550	_	4750	5070	5390	_	4920	5230
6 Reach	mm	8670	8920	9210	7910	8420	8660	8950	7610	8670	8920
7 Reach at ground level	mm	8490	8740	9030	7710	8230	8480	9770	7400	8490	8740
Bucket forces (ISO 6015)	kN	93	93	93	_	93	93	93	_	93	93
Stick forces (ISO 6015)	kN	73	67	62	_	73	67	62	_	73	67

Values 1-7 are calculated with bucket and quick coupler with a tip radius of 1552 mm.

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

<sup>\*</sup> Industrial stick has no bucket linkage. All dimensions refer to sticknose.

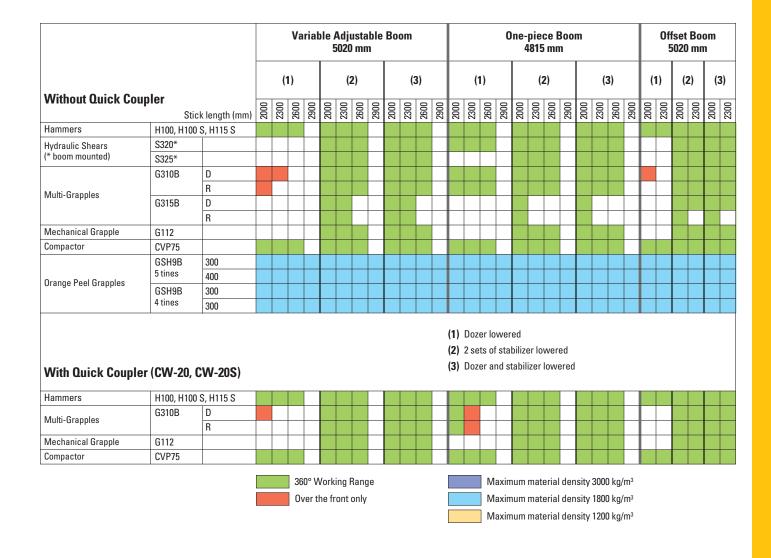
# **Bucket Specifications**

Contact your Caterpillar dealer for special bucket requirements.

Stick length	Pin-on Buckets Stick length					Variable Adjustable Boom 5020 mm 2000 mm 2300 mm 2600 mm															One	e-pie 4815	ce Bo	oom				
						2000	) mm			2300	) mm			2600	mm			2000	) mm			2300	) mm			2600	) mm	
	Width	Weight*	Capacity (ISO)	Adapters	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized	Free on wheels	Dozer lowered	1 set of stabilizer lowered	Fully stabilized
	mm	kg	m³		Fa	Doz	1 se	Ę.	Free	Doz	1 se	Fully	Free	Doz	1 se	F.	Free	Doz	1 se	F.	Free	Doz	1 se	F	Free	Doz	1 se	F
	450	312	0.18	3																								
	600	345	0.28	3																								
<b>.</b>	750	362	0.38	4																								
Excavation	900	403	0.49	4																								
	1000	427	0.56	4																								
	1100 1200	463 486	0.64	5 5																								
Extreme Excavation	1200		0.72	5																								
	600	382	0.38	3																								
	750	407	0.50	3																								
	800	422	0.54	3																								
Excavation	900	443	0.64	4																								
(leveling)	1000	484	0.73	4																								
-	1100	519	0.82	4																								
Extreme Excavation (leveling)	1200	546 557	0.92	5																								
•	1800	465	0.73																									
Ditab Claaning	1000		0.73																									
Ditch Cleaning	2000	495	U 83																									
	2000 1800	495 690	0.83																									
Ditch Cleaning Tiltable Ditch Cleaning	2000 1800 2000	690	0.83 0.61 0.68																									
Tiltable Ditch	1800 2000 ler B 600 750 900 1000 1100	339 352 390 413 450	0.61 0.68 0.28 0.38 0.49 0.56 0.64	3 3 4 4 4 5																								
Tiltable Ditch Cleaning  CW Quick Coup  Excavation	1800 2000 <b>ler B</b> 600 750 900 1000	339 352 390 413 450	0.61 0.68 0.28 0.28 0.49 0.56	3 4 4																								
Tiltable Ditch Cleaning  CW Quick Coup  Excavation	1800 2000 ler B 600 750 900 1100 1200 1200	339 352 390 413 450 473 483	0.61 0.68 0.28 0.38 0.49 0.56 0.64 0.72 0.72	3 4 4 4 5																								
Tiltable Ditch Cleaning  CW Quick Coup  Excavation	1800 2000 ler B 600 750 900 1000 1100 1200	339 352 390 413 450 473	0.61 0.68 0.28 0.38 0.49 0.56 0.64 0.72	3 4 4 4 5																								
Tiltable Ditch Cleaning  CW Quick Coup  Excavation  Extreme Excavation	1800 2000 ler B 600 750 900 1100 1200 1200 600	339 352 390 413 483 390	0.61 0.68 0.28 0.28 0.38 0.49 0.56 0.64 0.72 0.72 0.72	3 4 4 4 5 5																								
Tiltable Ditch Cleaning  CW Quick Coup  Excavation  Extreme Excavation	1800 2000 1000 1000 1100 1200 1200 600 750	339 352 390 413 483 390 435	0.61 0.68 0.28 0.38 0.49 0.56 0.64 0.72 0.72 0.38 0.50	3 4 4 4 5 5 3 4																								
Tiltable Ditch Cleaning  CW Quick Coup  Excavation  Extreme Excavation	1800 2000 1er B 600 750 900 1100 1200 1200 600 750 800 900 1000	339 352 390 413 450 473 483 390 435 409 443	0.61 0.68 0.28 0.38 0.49 0.56 0.64 0.72 0.72 0.38 0.50 0.54 0.64	3 4 4 5 5 3 4 3 4																								
Tiltable Ditch Cleaning  CW Quick Coup  Excavation  Extreme Excavation	1800 2000 1000 750 900 11000 1200 600 750 800 900 1000 11000	339 352 390 413 450 473 483 490 443 443 470 505	0.61 0.68 0.28 0.38 0.49 0.56 0.64 0.72 0.72 0.38 0.50 0.54 0.64 0.73	3 4 4 4 5 5 5 3 4 3 4 4																								
Tiltable Ditch Cleaning  CW Quick Coup  Excavation  Extreme Excavation	1800 2000 1000 750 900 1100 1200 600 750 800 900 1100 1100 1100 1100 1200	8ucke 339 352 390 413 450 473 483 490 443 470 505 533	0.61 0.68 0.28 0.38 0.49 0.56 0.64 0.72 0.72 0.38 0.50 0.54 0.64 0.73 0.82 0.92	3 4 4 4 5 5 5 3 4 3 4 4 5																								
Tiltable Ditch Cleaning  CW Quick Coup  Excavation  Extreme Excavation  Excavation (leveling)	1800 2000 1000 1000 1200 1200 1200 600 750 800 900 1100 1100 1100 1200	8ucke 339 352 390 413 450 473 483 390 443 470 505 533 396	0.61 0.68 0.28 0.38 0.49 0.56 0.64 0.72 0.72 0.38 0.50 0.54 0.64 0.64 0.73 0.82 0.92 0.38	3 4 4 4 5 5 5 3 4 3 4 4 4 4 5 3																								
Tiltable Ditch Cleaning  CW Quick Coup  Excavation  Extreme Excavation  (leveling)	1800 2000 1000 1000 1100 1200 1200 600 750 800 900 1100 1100 1100 1200 600 600 800	8ucke 339 352 390 413 450 473 483 390 443 470 505 533 396 416	0.61 0.68 0.28 0.38 0.49 0.56 0.64 0.72 0.72 0.38 0.50 0.54 0.64 0.73 0.82 0.92 0.92 0.38	3 4 4 4 5 5 5 3 4 4 4 4 4 5 3 3 3 3 3 3																								
Tiltable Ditch Cleaning  CW Quick Coup  Excavation  Extreme Excavation  Excavation (leveling)	1800 2000 1600 750 900 11000 1200 1200 600 750 800 900 11000 1100 1200 1200 1200 1200 12	339 352 390 413 450 473 483 390 443 470 505 533 396 416 544	0.61 0.68 0.28 0.38 0.49 0.56 0.64 0.72 0.72 0.38 0.50 0.54 0.64 0.73 0.82 0.92 0.38	3 4 4 4 5 5 5 3 4 3 4 4 4 4 5 3																								
Tiltable Ditch Cleaning  CW Quick Coup  Excavation  Extreme Excavation  (leveling)  Extreme Excavation  (leveling)	1800 2000 1600 750 900 1100 1200 600 750 800 1000 1100 1200 1100 1200 1200 1200	339 352 390 413 450 473 483 390 443 470 505 533 396 416 544	0.61 0.68 0.28 0.38 0.49 0.56 0.64 0.72 0.72 0.38 0.50 0.54 0.64 0.73 0.82 0.92 0.92 0.92	3 4 4 4 5 5 5 3 4 4 4 4 4 5 3 3 3 3 3 3																								
CW Quick Coup  Excavation  Extreme Excavation  (leveling)  Extreme Excavation (leveling)	1800 2000 1600 750 900 1100 1200 1200 600 750 800 1000 1100 1200 1200 1200 1200 1200	339 352 390 413 450 473 483 390 443 470 505 533 396 416 544 430 460	0.61 0.68 0.28 0.38 0.49 0.56 0.64 0.72 0.72 0.38 0.50 0.54 0.64 0.73 0.82 0.92 0.92 0.92 0.93 0.93 0.94 0.94 0.95	3 4 4 4 5 5 5 3 4 4 4 4 4 5 3 3 3 3 3 3																								
Tiltable Ditch Cleaning  CW Quick Coup  Excavation  Extreme Excavation  (leveling)  Extreme Excavation  (leveling)	1800 2000 1600 750 900 1100 1200 600 750 800 1000 1100 1200 1100 1200 1200 1200	339 352 390 413 450 473 483 390 443 470 505 533 396 416 544 430 460 650	0.61 0.68 0.28 0.38 0.49 0.56 0.64 0.72 0.72 0.38 0.50 0.54 0.64 0.73 0.82 0.92 0.92 0.92	3 4 4 4 5 5 5 3 4 4 4 4 4 5 3 3 3 3 3 3																								

# **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.



# Lift Capacities – Variable Adjustable Boom (5020 mm)

All values are in kg, without bucket, with counterweight (3300 kg) and CW quick coupler (204 kg), heavy lift on.

Short Stick 2000 mm

	Undercarriage	3.0 m			4.5 m			6.0 m		7.5 m		#	Sept.		
	configuration		P	æ		P				æ	P				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	3600 4100 *4400 *4400 *4400	3400 *3600 *3600	*3600 *3600	2100 2500 3000 *3600 3600					
4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*4900 *4900 *4900	*4900 *4900	4900 4900 *4900 *4900 *4900	*5200 *5200 *5200	*5200 *5200	3500 4000 4900 *5200 *5200	3500 *4300 *4300	*4300 *4300	2200 2500 3100 *4300 3800		*2300 *2300 *2300	*2300 *2300	1500 1800 2200 *2300 *2300	7.37
3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*7400 *7400 *7400	*7400 *7400	6200 7200 *7400 *7400 *7400	*6000 *6000	*6000 *6000	3400 3900 4700 *6000 5700	3500 *4500 *4500	*4500 *4500	2200 2500 3100 4400 3700		*2200 *2200 *2200	*2200 *2200	1300 1600 1900 *2200 *2200	7.83
1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*8600 *8600 *8600	*8600 *8600	6100 7100 *8600 *8600 *8600	*6600 *6600	*6600 *6600	3400 3900 4700 *6600 *5600	3400 *4700 *4700	*4700 4600	2100 2500 3000 4400 3700		2100 *2300 *2300	*2300 *2300	1300 1500 1900 *2300 *2300	7.94
0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*10200 *10200 *10200	*10200 *10200	5900 7000 8900 *10200 *10200	*6600 *6600	*6600 *6600	3300 3800 4700 *6600 5700	3300 *4800 *4800	*4800 4700	2000 2400 2900 4300 3600		2200 *2500 *2500	*2500 *2500	1300 1500 1900 *2500 2400	7.73
-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*10400 *10800 *10800	*10800 *10800	5800 6800 8900 *10800 *10800	5200 *6800 *6800	*6800 *6800	3100 3600 4500 *6800 5600	3200 *4500 *4500	*4500 *4500	1900 2300 2800 4200 3500		2500 *2800 *2800	*2800 *2800	1500 1700 2200 *2800 2700	7.15
-3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*10500 *10500	*10500 *10500	5700 6800 8800 *10500 *10500	*5600 *5600	*5600 *5600	3000 3500 4400 *5600 5500								

Medium Stick 2300 mm

(T)	Undercarriage		3.0 m			4.5 m			6.0 m			7.5 m				The same	
<u> </u>	configuration			GP-		P	Œ		P			P			P	Œ₽	m
6.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*4000 *4000 *4000	*4000 *4000	3600 4000 *4000 *4000 *4000	*3500 *3600 *3600	*3600 *3600	2200 2500 3100 *3600 *3600							
4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*4000 *4000 *4000	*4000 *4000	*4000 *4000 *4000 *4000 *4000	*4600 *4600 *4600	*4600 *4600	3500 4000 *4600 *4600 *4600	3500 *4100 *4100	*4100 *4100	2200 2600 3100 *4100 3800				*2000 *2000 *2000	*2000 *2000	1400 1700 *2000 *2000 *2000	7.65
3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*7900 *7900 *7900	*7900 *7900	6300 7200 *7900 *7900 *7900	5300 *5800 *5800	*5800 *5800	3500 4000 4800 *5800 5700	3500 *4400 *4400	*4400 *4400	2200 2600 3100 *4400 3700	2300 *3100 *3100	3100 3100	1400 1600 2000 *3100 2500	*2000 *2000 *2000	*2000 *2000	1300 1500 1800 *2000 *2000	8.08
1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*8800 *8800 *8800	*8800 *8800	6200 7100 *8800 *8800 *8800	*5200 *6500 *6500	*6500 *6500	3400 3900 4700 *6500 5600	3500 *4700 *4700	*4700 4600	2200 2500 3100 4400 3700	2300 *3700 *3700	3600 3200	1400 1600 2000 3000 2500	2000 *2000 *2000	*2000 *2000	1200 1400 1800 *2000 *2000	8.19
0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*10000 *10000 *10000	*10000 *10000	6000 7100 8900 *10000 *10000	*6600 *6600	*6600 *6600	3300 3800 4700 *6600 5700	3300 *4800 *4800	*4800 4600	2100 2400 3300 4400 3600	2300 *3000 *3000	*3000 *3000	1300 1600 2000 3000 2500	2100 *2200 *2200	*2200 *2200	1200 1400 1800 *2200 *2200	7.98
-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*10700 *10700	*10700 *10700	5800 6900 8900 *10700 *10700	5200 *6700 *6700	*6700 *6700	3200 3700 4600 *6700 5700	3200 *4700 *4700	*4700 4600	1900 2300 2800 4300 3500				2300 *2500 *2500	*2500 *2500	1400 1600 2000 *2500 2500	7.43
-3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*10900 *10900	*10900 *10900	5800 6900 8900 *10900 *10900	*6200 *6200	*6200 *6200	3000 3500 4400 *6200 5500										

	5	Undercarriage		3.0 m			4.5 m			6.0 m			7.5 m				S	
		configuration		P		ß	P		Ø.		Œ	ß	P		Ø.			m
	6.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*3500 *3500 *3500	*3500 *3500	3500 *3500 *3500 *3500 *3500	*3400 *3400 *3400	*3400 *3400	2200 2600 3100 *3400 *3400							
	4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				3900 *3900 *3900	*3900 *3900	3500 3900 3900 *3900 *3900	3500 *3900 *3900	*3900 *3900	2300 2600 3100 *3900 3800	*2100 *2100 *2100	*2100 *2100	1400 1700 2100 *2100 *2100	*1700 *1700 *1700	*1700 *1700	1300 1500 *1700 *1700 *1700	7.96
	3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*7600 *7600 *7600	*7600 *7600	6300 7200 *7600 *7600 *7600	*5600 *5600	*5600 *5600	3400 3900 4700 *5600 *5600	3500 *4300 *4300	*4300 *4300	2300 2600 3100 *4300 3700	2300 *3500 *3500	*3500 3300	1400 1700 2100 3100 2500	*1700 *1700 *1700	*1700 *1700	1200 1400 *1700 *1700 *1700	8.38
	1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*8600 *8600 *8600	*8600 *8600	6100 7100 *8600 *8600 *8600	*6300 *6300	*6300 *6300	3400 3900 4700 *6300 5600	3500 *4600 *4600	*4600 *4600	2200 2500 3100 4300 3700	2300 *3600 *3600	3600 3200	1400 1600 2000 3000 2500	*1800 *1800 *1800	*1800 *1800	1100 1300 1700 *1800 *1800	8.48
	0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*9800 *9800 *9800	*9800 *9800	6000 7100 8800 *9800 *9800	*6500 *6500	*6500 *6500	3300 3800 4700 *6500 5600	3400 *4700 *4700	*4700 4600	2100 2400 3000 4400 3600	2300 *3500 *3500	*3500 3200	300 1600 2000 3000 2500	*1900 *1900 *1900	*1900 *1900	1100 1300 1700 *1900 *1900	8.28
Load	-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	10200 *10600 *10600	*10600 *10600	5700 6800 8900 *10600 *10600	*6600 *6600	*6600 *6600	3100 3700 4600 *6600 5700	3200 *4800 *4800	*4800 4600	2000 2300 2800 4300 3500				2100 *2200 *2200	*2200 *2200	1300 1500 1900 *2200 *2200	7.75
	-3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*11000 *11000	*11000 *11000	5700 6800 8800 *11000 *11000	*6600 *6600	*6600 *6600	3000 3500 4400 *6600 5500	3100 *3500 *3500	*3500 *3500	1900 2200 2800 *3500 3400							
ch	-4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*6600 *6600	*6600 *6600	5600 6600 *6600 *6600 *6600													

### Industrial Stick 2900 mm

Long Stick 2600 mm

Load point height

Load over front

over rear

Load over side

Load at maximum reach

Load

point height

\ <u></u>	Undercarriage		3.0 m			4.5 m			6.0 m			7.5 m				The same of	
	configuration			æ								P			P		m
6.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*4100 *4100 *4100	*4100 *4100	3900 *4100 *4100 *4100 *4100	3800 *4000 *4000	*4000 *4000	2600 2900 3400 *4000 *4000							
4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*4600 *4600 *4600	*4600 *4600	3800 4300 *4600 *4600 *4600	3800 *4300 *4300	*4300 *4300	2600 2900 3400 *4300 4100				2700 *3100 *3100	*3100 *3100	1800 2000 2500 *3100 3000	7.39
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	6600 *7300 *7300 *7300 *7300	5600 *5900 *5900	*5900 *5900	3700 4300 5100 *5900 *5900	3800 *4600 *4600	*4600 *4600	2600 2900 *3400 *4600 4000	2700 *3900 *3900	*3900 3600	1700 2000 2400 3400 2900	2500 *3200 *3200	*3200 *3200	1600 1800 2200 *3200 2700	7.80
1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*9400 *9400 *9400	*9400 *9400	6500 7400 9100 *9400 *9400	5500 *6700 *6700	*6700 *6700	3700 4200 5000 *6700 5900	*3800 *5000 *5000	*5000 4900	2500 2800 3400 4600 4000	2600 *4000 *4000	4000 3500	1700 1900 2300 3400 2800	2400 *3400 *3400	*3400 3300	1600 1800 2100 3100 2600	7.90
0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*10400 *10400 *10400	*10400 *10400	6400 7400 9200 *10400 *10400	*6900 *6900	*6900 *6900	3600 4100 5000 *6900 5900	3700 *5100 *5100	*5100 4900	2400 2700 3300 4700 3900	2600 *3900 *3900	3900 3500	1600 1900 2300 3300 2800	2500 *3700 *3700	*3700 3300	1600 1800 2200 3200 2700	7.71
-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*11100 *11100	*11100 *11100	6100 7200 9200 *11100 *11100	5500 *7000 *7000	*7000 *7000	3500 4000 4900 *7000 6000	3500 *5200 *5200	*5200 4900	2200 2600 3100 4600 3800				2700 *3600 *3600	*3600 *3600	1700 2000 2400 3500 2900	7.18
-3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*11300 *11300	*11300 *11300	6000 7100 9100 *11300 *11300	5300 *6900 *6900	*6900 *6900	3300 3800 4700 *6900 5700	3400 *3900 *3900	*3900 *3900	2200 2500 3000 *3900 3700							
-4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*6900 *6900 *6900	*6900 *6900	5800 6900 6900 *6900 6900													

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

# Lift Capacities — One-piece Boom (4815 mm)

All values are in kg, without bucket, with counterweight (3300 kg) and CW quick coupler (204 kg), heavy lift on.

Short Stick 2000 mm

15-10	Undercarriage		3.0 m			4.5 m			6.0 m		7.5 m			Sept.	
	configuration			æ		P			P		P				m
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	3400 3900 *4800 *4800 *4800	3400 *4200 *4200	*4200 *4200	2200 2500 3000 *4200 3700		*2100 *2100 *2100	*2100 *2100	1700 1900 *2100 *2100 *2100	7.11
3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				5200 *5700 *5700	*5700 *5700	3200 3700 4600 *5700 *5700	3300 *4500 *4500	*4500 *4500	2100 2400 3000 4400 3600		*2100 *2100 *2100	*2100 *2100	1500 1700 *2100 *2100 *2100	7.50
1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*6500 *6500	*6500 *6500	3000 3500 4400 *6500 5400	3200 *4800 *4800	*4800 4600	2000 2300 2900 4300 3500		*2100 *2100 *2100	*2100 *2100	1400 1600 2000 *2100 *2100	7.70
0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*6700 *6700	*6700 *6700	2900 3400 4200 6600 5300	3200 *4800 *4800	*4800 4500	1900 2200 2800 4200 3400		*2300 *2300 *2300	*2300 *2300	1400 1700 2000 *2300 *2300	7.47
-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*7900 *7900 *7900	*7900 *7900	5300 6300 *7900 *7900 *7900	4800 *6100 *6100	*6100 *6100	2900 3300 4200 *6100 5300	3200 *4300 *4300	*4300 *4300	1900 2200 2800 4200 3400		2600 *2700 *2700	*2700 *2700	1600 1900 2300 *2700 *2700	6.87
-3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*6200 *6200 *6200	*6200 *6200	5400 *6200 *6200 *6200 *6200	*4500 *4500 *4500	*4500 *4500	2900 3400 4300 *4500 *4500								

Medium Stick 2300 mm

15	Undercarriage		3.0 m			4.5 m			6.0 m			7.5 m		*		
	configuration			Œ		P			P		J		I.			m
6.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down							*2600 *2600 *2600	*2600 *2600	2200 2500 *2600 *2600 *2600						
4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down							3400 *4000 *4000	*4000 *4000	2200 2500 3100 *4000 3700			*1800 *1800 *1800	*1800 *1800	1600 *1800 *1800 *1800 *1800	7.37
3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				5300 *5500 *5500	*5500 *5500	3300 3800 4700 *5500 *5500	3400 *4300 *4300	*4300 *4300	2100 2400 3000 *4300 3600			*1800 *1800 *1800	*1800 *1800	1400 1600 *1800 *1800 *1800	7.82
1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*6400 *6400	*6400 *6400	3000 3500 4400 *6400 5500	3200 *4700 *4700	*4700 4600	2000 2300 2900 4300 3500			*1900 *1900 *1900	*1900 *1900	1300 1500 *1900 *1900 *1900	7.94
0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*4300 *4300 *4300	*4300 *4300	*4300 *4300 *4300 *4300 *4300	4900 *6700 *6700	*6700 *6700	2900 3400 4200 6600 5300	3200 *4800 *4800	*4800 4500	1900 2200 2800 4200 3400			*2100 *2100 *2100	*2100 *2100	1300 1600 1900 *2100 *2100	7.72
-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*7900 *7900 *7900	*7900 *7900	5200 6200 *7900 *7900 *7900	4800 *6300 *6300	*6300 *6300	2800 3300 4200 *6300 5300	3100 *4400 *4400	*4400 *4400	1900 2200 2800 4200 3400			*2400 *2400 *2400	*2400 *2400	1500 1700 2200 *2400 *2400	7.14
-3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*6900 *6900 *6900	*6900 *6900	5300 6400 *6900 *6900 *6900	4900 *4900 *4900	*4900 *4900	2900 3400 4200 *4900 *4900									

Long	15	Undercarriage		3.0 m			4.5 m			6.0 m			7.5 m			#	Sept.	
Stick		configuration											P			P		m
2600 mm	6.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down							*3000 *3000	*3000 *3000	2200 2500 *3000 *3000 *3000							
	4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down							3500 *3800 *3800	*3800 *3800	2200 2500 3100 *3800 3700				*1600 *1600 *1600	*1600 *1600	1500 *1600 *1600 *1600 *1600	7.68
	3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*7800 *7800 *7800	*7800 *7800	6100 7200 *7800 *7800 *7800	*5200 *5200 *5200	*5200 *5200	3300 3800 4700 *5200 *5200	3400 *4200 *4200	*4200 *4200	2100 2400 3000 *4200 3600	2300 *2600 *2600	*2600 *2600	1400 1700 2100 *2600 2500	*1600 *1600 *1600	*1600 *1600	1300 1500 *1600 *1600 *1600	8.11
Load point height  Load over front	1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*6200 *6200	*6200 *6200	3000 3500 4400 *6200 5500	3200 *4600 *4600	*4600 *4600	2000 2300 2900 4300 3500	2300 *3200 *3200	*3200 *3200	1400 1600 2000 3000 2500	*1600 *1600 *1600	*1600 *1600	1200 1400 *1600 *1600 *1600	8.22
Load over rear	0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*4600 *4600 *4600	*4600 *4600	*4600 *4600 *4600 *4600 *4600	*6700 *6700	*6700 *6700	2900 3400 4200 6600 5300	3100 *4800 *4800	*4800 4500	1900 2200 2800 4200 3400	2300 *2600 *2600	*2600 *2600	1400 1600 2000 *2600 2500	*1800 *1800 *1800	*1800 *1800	1200 1500 *1800 *1800 *1800	8.01
Load over side	-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*7400 *7400 *7400	*7400 *7400	5200 6200 *7400 *7400 *7400	*6400 *6400	*6400 *6400	2800 3300 4200 *6400 5200	3100 *4500 *4500	*4500 4400	1900 2200 2700 4100 3400				*2100 *2100 *2100	*2100 *2100	1400 1600 2000 *2100 *2100	7.46
maximum reach  Load point height	-3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*7500 *7500 *7500	*7500 *7500	5200 6300 *7500 *7500 *7500	4800 *5200 *5200	*5200 *5200	2800 3300 4200 *5200 *5200	3100 *3300 *3300	*3300 *3300	1900 2200 2800 *3300 *3300							

### Industrial Stick 2900 mm

9	Undercarriage		3.0 m			4.5 m			6.0 m			7.5 m			#	Sept.	
	configuration		P	Œ-		P			P			P			P		m
6.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*3500 *3500 *3500	*3500 *3500	2500 2900 3400 *3500 *3500										
4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				3800 *4100 *4100	*4100 *4100	2500 2800 3400 *4100 4100							2900 *3000 *3000	*3000 *3000	2000 2200 2600 *3000 *3000	7.06
3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*5500 *5500 *5500	*5500 *5500	3600 4100 5000 *5500 *5500	3700 *4500 *4500	*4500 *4500	2400 2700 3300 *4500 4000				2700 *3100 *3100	*3100 *3100	1800 2000 2400 *3100 2900	7.50
1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*6600 *6600	*6600 *6600	3400 3900 4800 *6600 5800	3600 *4900 *4900	*4900 *4900	2300 2600 3200 4600 3800	2600 *3800 *3800	*3800 3500	1700 1900 2300 3300 2800	2600 *3400 *3400	*3400 *3400	1700 1900 2300 3300 2800	7.60
0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*6300 *6300 *6300	*6300 *6300	5600 *6300 *6300 *6300 *6300	5200 *7100 *7100	*7100 *7100	3200 3700 4600 6900 5600	3500 *5200 *5200	*5200 4800	2200 2500 3100 4500 3800				2600 *3900 *3900	*3900 3500	1700 1900 2300 3400 2800	7.40
-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*9100 *9100 *9100	*9100 *9100	5600 6600 8500 *9100 *9100	5100 *6800 *6800	*6800 *6800	3200 3600 4500 *6800 5600	3400 *5000 *5000	*5000 4800	2200 2500 3100 4400 3700				2900 *4100 *4100	*4100 3900	1900 2100 2600 3700 3100	6.85
-3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*8100 *8100 *8100	*8100 *8100	5600 6700 *8100 *8100 *8100	5100 *5700 *5700	*5700 *5700	3200 3700 4500 *5700 5600										

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

# **Lift Capacities – Offset Boom (5020 mm)**

All values are in kg, without bucket, with counterweight (3300 kg) and CW quick coupler (204 kg), heavy lift on.

Short Stick 2000 mm

15	Undercarriage		3.0 m			4.5 m			6.0 m		7.5 m		#	N.	
	configuration		T	Œ-			C.			Œ-	P				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	3600 4100 *4400 *4400 *4400	3300 *3400 *3400	*3400 *3400	2000 2300 2900 *3400 *3400					
4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*5100 *5100 *5100	*5100 *5100	5100 5100 *5100 *5100 *5100	*5000 *5000 *5000	*5000 *5000	3500 4000 4800 *5000 *5000	*3400 *4100 *4100	*4100 *4100	2100 2400 3000 *4100 3700		*2200 *2200 *2200	*2200 *2200	1400 1600 2100 *2200 *2200	7.37
3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*7200 *7200 *7200	*7200 *7200	6100 7100 *7200 *7200 *7200	5200 *5700 *5700	*5700 *5700	3400 3900 4700 *5700 5500	3400 *4300 *4300	*4300 *4300	2100 2400 3000 4300 3600		2100 *2100 *2100	*2100 *2100	1200 1400 1800 *2100 *2100	7.83
1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*8400 *8400 *8400	*8400 *8400	6000 6900 *8400 *8400 *8400	5100 *6200 *6200	*6200 *6200	3300 3800 4600 *6200 5500	3300 *4500 *4500	*4500 *4500	2000 2400 2900 *4200 3600		2000 *2200 *2200	*2200 *2200	1100 1300 1700 *2200 2200	7.94
0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	9800 *9900 *9900	*9900 *9900	5600 6700 8700 *9900 *9900	5200 *6300 *6300	*6300 *6300	3100 3700 4600 *6300 5500	3200 *4500 *4500	*4500 *4500	1900 2200 2800 4200 3500		2000 *2400 *2400	*2400 *2400	1100 1400 1800 *2400 2200	7.72
-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*10400 *10400 *10400	*10400 *10400	5500 6600 8600 *10400 *10400	*6500 *6500	*6500 *6500	3000 3500 4400 *6500 5500	3000 *4300 *4300	*4300 *4300	1700 2100 2600 4100 3300		2300 *2600 *2600	*2600 *2600	1300 1600 2000 *2600 2500	7.14
-3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*10100 *10100 *10100	*10100 *10100	5400 6500 8600 *10100 *10100	*5300 *5300	*5300 *5300	2800 3300 4200 *5300 5300								

Medium Stick 2300 mm

(5-76)	Undercarriage		3.0 m			4.5 m			6.0 m			7.5 m					
	configuration		B			P	Œ		P	GP-		P	Œ		P	GP-	m
6.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down				*4100 *4100 *4100	*4100 *4100	3600 *4100 *4100 *4100 *4100	3400 *3500 *3500	*3500 *3500	2100 2400 3000 *3500 *3500							
4.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*4200 *4200 *4200	*4200 *4200	*4200 *4200 *4200 *4200 *4200	*4700 *4700 *4700	*4700 *4700	3500 4000 *4700 *4700 *4700	*3400 *3900 *3900	*3900 *3900	2200 2500 3100 *3900 3700				*1900 *1900 *1900	*1900 *1900	1300 1500 *1900 *1900 *1900	7.64
3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*7600 *7600 *7600	*7600 *7600	6100 7100 *7600 *7600 *7600	5200 *5600 *5600	*5600 *5600	3400 3900 *4600 *5600	*3400 *4200 *4200	*4200 *4200	2200 2500 3100 *4200 3600	2200 *3000 *3000	*3000 3000	1300 1500 1900 2900 2400	*1900 *1900 *1900	*1900 *1900	1100 1300 1700 *1900 *1900	8.08
1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*8500 *8500 *8500	*8500 *8500	6000 6900 *8500 *8500 *8500	*5100 *6200 *6200	*6200 *6200	3300 3800 4600 *6200 *5400	3400 *4500 *4500	*4500 4500	2100 2400 3000 4200 *3600	2200 *3400 *3400	*3400 3100	1200 1500 1900 2900 2400	1900 *1900 *1900	*1900 *1900	1100 1300 1600 *1900 *1900	8.18
0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	9700 *9800 *9800	*9800 *9800	5800 6900 8700 *9800 *9800	*5200 *6300 *6300	*6300 *6300	3200 3700 4600 *6300 5500	3200 *4500 *4500	*4500 *4500	1900 2300 2800 4300 3500	2100 *2900 *2900	*2900 *2900	1200 1400 1800 2800 2300	1900 *2100 *2100	*2100 *2100	1100 1300 1700 *2100 *2100	7.98
-1.5 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*10000 *10300 *10300	*10300 *10300	5500 6600 8600 *10300 *10300	5100 *6400 *6400	*6400 *6400	3000 3500 4400 *6400 5500	3100 *4500 *4500	*4500 4400	1800 2100 2700 4100 3300				2200 *2400 *2400	*2400 *2400	1200 1500 1900 *2400 2400	7.42
-3.0 m	Rear dozer up Rear dozer down Rear stab down 2 sets stab down Dozer and stab down	*10600 *10600	*10600 *10600	5500 6600 8700 *10600 *10600	4800 *5900 *5900	*5900 *5900	2800 3300 4200 *5900 5300										

# **Standard Equipment**

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

#### **Electrical**

Alternator, 75 A

Lights

Boom working light Cab interior light

Roading lights (two front, two rear)

Main shut-off switch Maintenance free batteries Signal/warning horn

#### **Engine**

Automatic engine speed control Automatic starting aid Cat C4.4 with ACERT Technology EU Stage IIIA compliant Fuel/water separator with level indicator

#### **Hydraulics**

Cat XT-6 ES hoses
Heavy lift mode
Load-sensing Plus hydraulic system
Manual work modes (economy, power)
Separate swing pump
Stick regeneration circuit

#### **Operator Station**

Adjustable armrests

Ash tray with cigarette lighter (24 volt)

Beverage cup/can holder

Bolt-on FOGS capability

Bottle holder

Coat hook

Floor mat, washable, with storage

compartment

Fully adjustable suspension seat

Heater and defroster

Instrument panel and gauges

Information and warning messages

in local language

Gauges for fuel level, engine coolant and

hydraulic oil temperature

Filters/fluids change interval, working hour Indicators for headlights, turning signal,

low fuel, engine dial setting

Clock with 10-day backup battery

Laminated front windshield

Left side console, tiltable, with lock out

for all controls

Literature compartment behind seat

Literature holder in right console

Mobile phone holder

Parking brake

Parallel mounted top and bottom wiper and washer

Positive filtered ventilation, pressurized cab

Power supply, 12V-7A

Rear window, emergency exit

Retractable seat belt

Skylight

Sliding door windows

Steering column, tiltable

Storage area suitable for a lunch box

Sunshade for windshield and skylight

#### **Undercarriage**

Bolt-on design for front attachments Heavy-duty axles, advanced travel motor, adjustable braking force

Oscillating front axle with remote greasing

Pin-on design for rear attachments

Tires, 10.00-20 16 PR, dual

Tool box in undercarriage

Two-piece drive shaft

Two-speed transmission,

manual and automatic gear shifting

#### **Other Equipment**

Automatic swing brake Counterweight, 2900 kg Mirrors, frame and cab Product Link ready

# **Optional Equipment**

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

#### **Auxiliary Controls and Lines**

Auxiliary boom and stick lines

Anti-drift valves for bucket, stick, VA boom and tool control/multi-function circuits

Basic control circuits:

Single action

One-way, high pressure circuit, for hammering application

Medium pressure

Two-way, medium pressure circuit, for rotating or tilting of work tools

Tool control/multi function

One/two-way high pressure for hammer application or opening and closing of a work tool

Programmable flow and pressure for up to 10 work tools - selection via monitor Second high pressure

Additional two-way, high pressure circuit, for tools requiring a second high or medium pressure function

Quick coupler control Biodegradable hydraulic oil

(synthetic ester based)

Lowering control devices for boom and stick SmartBoom

#### Front Linkage

Booms

One-piece boom, 4815 mm

VA boom (two piece), 5020 mm

Offset boom, 5020 mm

Bucket linkage

Bucket linkage with diverter valve Sticks

2000, 2300, 2600 mm

2900 mm industrial with drop nose

#### Electrical

Back-up alarm with three selectable modes Heavy-duty maintenance free batteries Roading lights, rear (LED modules)

Refueling pump

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

Joystick steering

Lid for storage compartment

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

and 12 V converter

Seat, adjustable high-back

- mechanical suspension
- air suspension (vertical)
- deluxe with headrest, air suspension

Headrest

Travel speed lock

Vandalism guards

Visor for rain protection

Windshield

One-piece high impact resistant

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

#### Undercarriage

Dozer blade, front or rear mounted Outriggers, front and/or rear mounted Second tool box for undercarriage Spacer rings for tires

### **Other Equipment**

Auto-lube system (implements and swing gear)

Cat Machine Security System

Cat Product Link

Counterweight, 3300 kg

Custom paint

Mirrors heated, frame and cab

Ride Control

Tires (see pg.13)

Tool box in upperframe, lockable

### **M313D Wheel Excavator**

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

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

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