# **M322D**

Wheel Excavator





| Engine                            |                     |
|-----------------------------------|---------------------|
| Engine Model                      | Cat® C6.6 with      |
|                                   | ACERT™ Technology   |
| Net power (ISO 9249) at 2,000 rpm | 123 kW (167 hp)     |
| Weights                           |                     |
| Operating Weight                  | 20 500 to 22 500 kg |

| <b>Bucket Specifications</b>  |                             |  |
|-------------------------------|-----------------------------|--|
| Bucket Capacities             | 0.44 to 1.57 m <sup>3</sup> |  |
| Working Ranges                |                             |  |
| Maximum Reach at Ground Level | 10 320 mm                   |  |
| Maximum Digging Depth         | 6680 mm                     |  |
| Drive                         |                             |  |
| Maximum Travel Speed          | 25 km/h                     |  |

#### **Features**

#### **Engine**

The EU Stage IIIA compliant C6.6 offers increased performance and reliability while reducing fuel consumption and sound levels.

#### **Environmentally Responsible Design**

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

#### **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.

#### **Serviceability**

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

#### **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 standard rear-mounted camera.

#### **Undercarriage**

Various undercarriage configuration with blade and outriggers are available to provide the best solution for you.

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The Cat® D Series incorporates innovations for improved performance and versatility.

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

# **Engine**

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

#### **Powerful Performance**

The Cat® C6.6 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 C6.6 engine in the M322D delivers a maximum gross power of 129 kW at a rated speed of 2,000 rpm.

#### **Low Fuel Consumption**

The C6.6 is electronically controlled and uses the new Cat Common Rail Fuel System and fuel pump. This combination provides outstanding fuel consumption during both production and travel. When the system recognizes roading application the engine will operate at the most efficient system operating point to save fuel without compromising road performance.

#### Low Noise, Low Vibration

The Cat C6.6 design improves operator comfort by reducing sound and vibration.

#### **Cooling System**

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

#### **One-Touch Low Idle Control**

The two stage, one-touch Automatic Engine Speed Control reduces engine speed if no operation is performed, maximizing fuel efficiency and reducing sound levels.

#### **Waste Handling Package**

The Waste Handling Package has been specifically developed for Cat Wheel Excavators working in waste transfer stations or other extremely dusty applications. This option features the following:

- An automatic, hydraulic reversible fan that reverses airflow after a set interval, manually adjustable between 5 and 60 minutes with a switch located inside the cab.
- A special dense wire mesh cooling system hood further reduces radiator clogging.
- Two cyclone filters provide clean filtered air to the engine compartment, air cleaner, aftercooler and air conditioner condenser.



# **Hydraulics**

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%.

#### **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 preprogrammed 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 work tool.

#### **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 and stick cylinders. These snubbers help cushion shocks, reduce sound and increase cylinder life.

# SmartBoom<sup>™</sup>

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.

# **Environmentally Responsible Design**

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

#### **Fuel Efficiency**

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

#### **Low Exhaust Emissions**

The new Cat® C6.6 engine meets the new EU Stage IIIA emissions regulations while offering increased performance, reliability and reduced 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 (Cat BIO HYDO Advanced HEES<sup>TM</sup>) is formulated to provide excellent

high-pressure and high temperature characteristics, and is fully compatible with all hydraulic components. Cat BIO HYDO Advanced HEES<sup>TM</sup> 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 Cat 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.

# **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 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 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 large skylight provides superb upward visibility. The retractable sunscreen blocks direct sunlight.

#### **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.

#### **Monitor**

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

- 2 times 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 predefined 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.

#### **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.

#### **Lunch Box**

A large storage compartment is located behind the operator's seat. The compartment provides sufficient room to store items such as a lunch box. A 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.

#### **Cat Standard Rearview Camera**

The rearview camera displays on the operator monitor. Together with the best in class visibility to the front, up, left and right, the rearview camera ensures the safe operation of the machine and fulfills the requirements of ISO 5006/EN474.



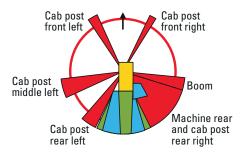








#### **Field of Vision**



Leaend:

Red: limitations due to cab post and/or boom Blue: additional visibility due to mirrors Green: additional visibility due to rearview camera





# **Undercarriage**

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

#### **Heavy-Duty Axles and Stabilizers**

The D Series Wheel Excavator undercarriage provides 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 minimizes the rocking effect associated with working free on wheels. The axle design lowers maintenance and lifetime costs. Oil change intervals are at 2,000 working hours, further reducing 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 two booms and three 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.

#### **Sticks**

Three different stick lengths are offered to match different application requirements:

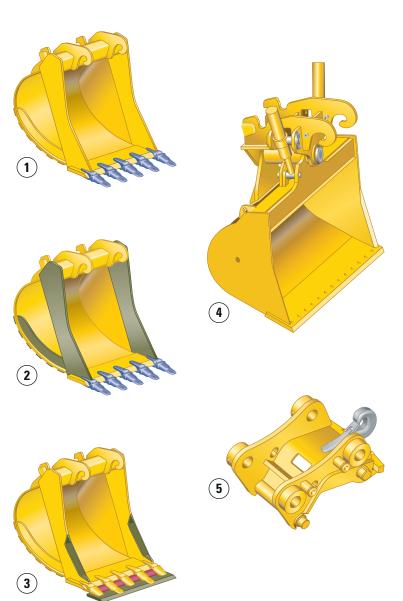
- Short stick (2200 mm) for maximum breakout force and lifting capability.
- Medium stick (2500 mm) for greater crowd force and lift capacity.
- Long stick (2900 mm) for greater depth and reach requirements.





## **Work Tools**

A wide variety of Work Tools help optimize machine performance.



#### **Work Tools**

Cat work tools are designed to function as an integral part of your excavator and to provide the best possible performance in your particular application. All work tools are performance-matched to Cat machines.

#### **Quick Couplers**

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

#### **Buckets**

Caterpillar offers a wide range of specialized buckets, each designed and tested to function as an integral part of your excavator. Buckets feature the new Cat K Series™ Ground Engaging Tools.

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

## Purpose designed and built to Caterpillar's high durability standards.

#### **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 Cat hammers suitable for a wide range of carriers and provide a system solution from one safe source.

#### **Orange Peel Grapples**

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

#### **Multi-Grapples**

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

#### **Multi-Processors**

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

#### **Vibratory Plate Compactors**

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

#### **Shears**

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











# Serviceability and Complete Customer Support







#### **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<sup>SM</sup> Scheduled Oil Sampling analysis, hydraulic oil change intervals can be extended up to 6,000 hours.

#### **Engine Oil**

Cat 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.

#### Air Filters

Cat 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<sup>TM</sup> 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.

# Simplified and easy maintenance save you time and money. Cat<sup>®</sup> dealer services help you operate longer with lower costs.

#### **Front Compartment**

The front compartment hood can be opened vertically, providing outstanding ground level access to the batteries, air-to-air aftercooler, 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<sup>SM</sup> 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 Cat 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.

#### **Handrails and Steps**

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

#### **New LED Rear Lights**

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









# **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 preset combinations. This eliminates the need to reset 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 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 prewired 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         |                          |
|----------------|--------------------------|
| Engine Model   | Cat® C6.6                |
|                | with ACERT <sup>TM</sup> |
|                | Technology               |
| Ratings        | 2,000 rpm                |
| Gross Power    | 129 kW (175 hp)          |
| Net Power      |                          |
| ISO 9249       | 123 kW (167 hp)          |
| 80/1269/EEC    | 123 kW (167 hp)          |
| Bore           | 105 mm                   |
| Stroke         | 127 mm                   |
| Displacement   | 6.6 L                    |
| Cylinders      | 6                        |
| Maximum Torque | 750 N·m                  |
| at 1,400 rpm   |                          |
|                |                          |

- 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            | 220 L     |
| System                   | 350 L     |
| 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          | 340 bar   |
| Maximum Flow             |           |
| Implement/Travel Circuit | 350 L/min |
| Auxiliary Circuit        |           |
| High Pressure            | 250 L/min |
| Medium Pressure          | 50 L/min  |
| Swing Mechanism          | 112 L/min |

| Weights                      |              |
|------------------------------|--------------|
| VA Boom*                     |              |
| Rear Dozer Only              | 19 650 kg    |
| Rear Dozer, Front Outriggers | 20 850 kg    |
| Front and Rear Outriggers    | 21 100 kg    |
| One-Piece Boom*              |              |
| Rear Dozer Only              | 19 000 kg    |
| Rear Dozer, Front Outriggers | 20 200 kg    |
| Front and Rear Outriggers    | 20 450 kg    |
| Sticks                       |              |
| Short (2200 mm)              | 650 kg       |
| Medium (2500 mm)             | 700 kg       |
| Long (2900 mm)               | 780 kg       |
| Dozer Blade                  | 920 kg       |
| Outriggers                   | 1260 kg      |
| Counterweight                |              |
| Standard                     | 3900 kg      |
| Optional                     | 4400/5400 kg |
| 36 11 11 11 11               |              |

 Machine weight with medium stick, 4400 kg counterweight, with operator and full fuel tank, without work tool.
 Weight varies depending on configuration.

| Transmission         |         |
|----------------------|---------|
| Forward/Reverse      |         |
| 1st Gear             | 7 km/h  |
| 2nd Gear             | 25 km/h |
| Creeper Speed        |         |
| 1st Gear             | 3 km/h  |
| 2nd Gear             | 12 km/h |
| Drawbar Pull         | 112 kN  |
| Maximum Gradeability | 60%     |
| O                    |         |

| Swing Mechanism |         |
|-----------------|---------|
| Swing Speed     | 9 rpm   |
| Swing Torque    | 56 kN⋅m |

#### **Tires**

Standard

• 11.00-20 (dual pneumatic)

Optional

• 10.00-20 (dual solid rubber)

| Undercarriage          |         |
|------------------------|---------|
| Ground Clearance       | 380 mm  |
| Maximum Steering Angle | 35°     |
| Oscillation Axle Angle | ± 9°    |
| Minimum Turning Radius |         |
| Standard Axle          |         |
| Outside of Tire        | 6800 mm |
| End of VA Boom         | 7800 mm |
| End of One-Piece Boom  | 9300 mm |
|                        |         |

| Service Refill Capaci              | ities |  |
|------------------------------------|-------|--|
| Fuel Tank                          | 385 L |  |
| Cooling                            | 37 L  |  |
| Engine Crankcase                   | 15 L  |  |
| Rear Axle Housing (differential)   | 14 L  |  |
| Front Steering Axle (differential) | 11 L  |  |
| Final Drive                        | 2.5 L |  |
| Powershift Transmission            | 2.5 L |  |

#### **Sound Levels**

#### **Exterior Sound**

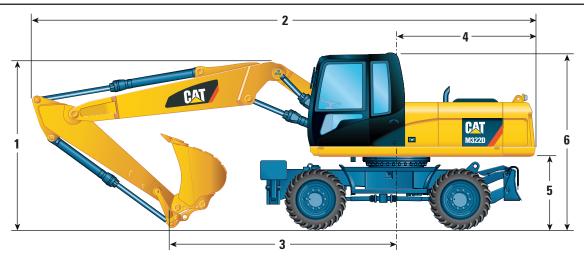
• The labeled spectator sound power level measured according to the test procedures and conditions specified in 2000/14/EC is 103 dB(A).

#### Cab/ROPS/FOGS

- Cat cab with integrated Roll Over Protective Structure (ROPS) meets ISO 12117-2:2008 criteria.
- Cab with Falling Object Guard Structure (FOGS) meets ISO 10262.

#### **Dimensions**

All dimensions are approximate.

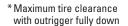


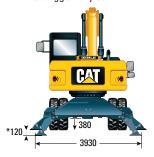
|                                  |    | VA Boom |      |      | One-Piece Boom |      |      |
|----------------------------------|----|---------|------|------|----------------|------|------|
| Stick Length                     | mm | 2200    | 2500 | 2900 | 2200           | 2500 | 2900 |
| 1 Shipping Height                | mm | 3260    | 3230 | 3250 | 3300           | 3250 | 3290 |
| 2 Shipping Length                | mm | 9430    | 9440 | 9430 | 9650           | 9640 | 9650 |
| 3 Support Point                  | mm | 4160    | 3660 | 3420 | 4240           | 3720 | 3440 |
| 4 Tail Swing Radius              | mm |         | 2820 |      |                | 2820 |      |
| <b>5</b> Counterweight Clearance | mm |         | 1310 |      |                | 1310 |      |
| <b>6</b> Cab Height              | mm |         | 3200 |      |                | 3200 |      |
| With 1200 mm Fixed Cab Riser     | mm |         | 4400 |      |                | 4400 |      |



#### Undercarriage with dozer only







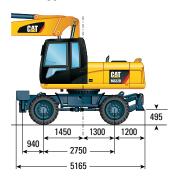
## Undercarriage with 2 sets of outriggers



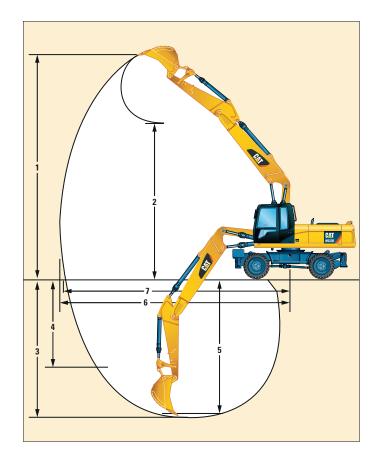
#### Roading position with 2500 mm stick

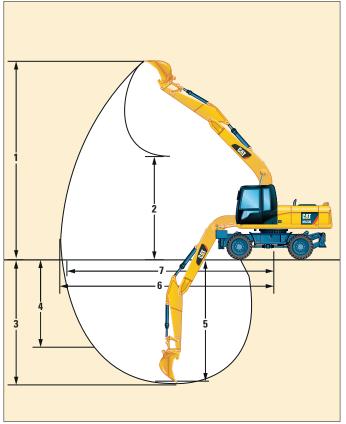


## Undercarriage with 1 set of outriggers and dozer



#### **Working Ranges**





|  |    | VA Boom |        |        | One-Piece Boom |        |        |
|--|----|---------|--------|--------|----------------|--------|--------|
| Stick Length                           | mm | 2200    | 2500   | 2900   | 2200           | 2500   | 2900   |
| 1 Digging Height                       | mm | 10 560  | 10 620 | 10 930 | 9670           | 9540   | 9760   |
| 2 Dump Height                          | mm | 6930    | 7170   | 7500   | 6300           | 6230   | 6450   |
| 3 Digging Depth                        | mm | 5990    | 6280   | 6680   | 5770           | 6070   | 6470   |
| 4 Vertical Wall Digging Depth          | mm | 4420    | 4450   | 4830   | 4480           | 4780   | 5160   |
| <b>5</b> Depth 2.5 m Straight Clean-Up | mm | 5780    | 6090   | 6510   | 5570           | 5880   | 6300   |
| 6 Reach                                | mm | 9770    | 10 000 | 10 390 | 9890           | 10 100 | 10 490 |
| 7 Reach at Ground Level                | mm | 9590    | 9830   | 10 230 | 9720           | 9930   | 10 320 |
| Bucket Forces (ISO 6015)               | kN | 140     | 140    | 140    | 140            | 140    | 140    |
| Stick Forces (ISO 6015)                | kN | 123     | 114    | 104    | 123            | 114    | 104    |

Values 1-7 are calculated with bucket and quick coupler with a tip radius of 1712 mm.

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

#### **Bucket Specifications**

Contact your Cat dealer for special bucket requirements.

| Pin-On Buckets                |  |            |                |          |                |               |                             | Vari             | iable          | _             | ustab<br>) mm               | le Bo            | oom            |              |                           |                  |                |               |                             |                  | One            | -Pie<br>5650 | ce Bo                       | oom              |                |               |                             |                  |
|-------------------------------|--|------------|----------------|----------|----------------|---------------|-----------------------------|------------------|----------------|---------------|-----------------------------|------------------|----------------|--------------|---------------------------|------------------|----------------|---------------|-----------------------------|------------------|----------------|--------------|-----------------------------|------------------|----------------|---------------|-----------------------------|------------------|
| Stick Length                  |  |            |                |          |                | 2200          | mm                          |                  |                | 2500          | ) mm                        |                  |                | 2900         | ) mm                      |                  |                | 2200          | mm                          |                  |                | 2500         | mm                          |                  |                | 2900          | 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 | Dozerlowered | set of stabilizer lowered | Fully stabilized | Free on wheels | Dozer lowered | 1 set of stabilizer lowered | Fully stabilized | Free on wheels | Dozerlowered | 1 set of stabilizer lowered | Fully stabilized | Free on wheels | Dozer lowered | 1 set of stabilizer lowered | Fully stabilized |
|                               | mm   | kg         | m³             |          | Fre            | O             | 1 s                         | 교                | Fre            | å             | 18                          | 교                | Fre            | å            | 1 s                       | 교                | Fr.            | O             | 1 s                         | 교                | Fre            | Do           | 1 s                         | 교                | Fr             | o             | 18                          | 교                |
|                               | 600  | 564        | 0.44           | 3        |                |               |                             |                  |                |               |                             |                  |                |              |                           |                  |                |               |                             |                  |                |              |                             |                  |                |               |                             |                  |
|                               | 750  | 593        | 0.59           | 3        |                |               |                             |                  |                |               |                             |                  |                |              |                           |                  |                |               |                             |                  |                |              |                             |                  |                |               |                             |                  |
|                               | 1000                                       | 698        | 0.86           | 4        |                |               |                             |                  |                |               |                             |                  |                |              |                           |                  |                |               |                             |                  |                |              |                             |                  |                |               |                             |                  |
| Excavation                    | 1200                                       | 783        | 1.08           | 5        |                |               |                             |                  |                |               |                             |                  |                |              |                           |                  |                |               |                             |                  |                |              |                             |                  |                |               |                             |                  |
|                               | 1250                                       | 800        | 1.13           | 5        |                |               |                             |                  |                |               |                             |                  |                |              |                           |                  |                |               |                             |                  |                |              |                             |                  |                |               |                             |                  |
|                               | 1300                                       | 818        | 1.19           | 5        |                |               |                             |                  |                |               |                             |                  |                |              |                           |                  |                |               |                             |                  |                |              |                             |                  |                |               |                             |                  |
|                               | 1400                                       | 853        | 1.30           | 5        |                |               |                             |                  |                |               |                             |                  |                |              |                           |                  |                |               |                             |                  |                |              |                             |                  |                |               |                             |                  |
|                               | 1500                                       | 888        | 1.41           | 5        |                |               |                             |                  |                |               |                             |                  |                |              |                           |                  |                |               |                             |                  |                |              |                             |                  |                |               |                             |                  |
|                               | 600  | 589        | 0.44           | 3        |                |               |                             |                  |                |               |                             |                  |                |              |                           |                  |                |               |                             |                  |                |              |                             |                  |                |               |                             |                  |
| Future Forestine              | 750  | 620        | 0.59           | 3        |                |               |                             |                  |                |               |                             |                  |                |              |                           |                  |                |               |                             |                  |                |              |                             |                  |                |               |                             |                  |
| Extreme Excavation            | 1250                                       | 827<br>864 | 1.13           | 4<br>5   |                |               |                             |                  |                |               |                             |                  |                |              |                           |                  |                |               |                             |                  |                |              |                             |                  |                |               |                             |                  |
|                               | 1400                                       | 901        | 1.30           | 5<br>5   |                |               |                             |                  |                |               |                             |                  |                |              |                           |                  |                |               |                             |                  |                |              |                             |                  |                |               |                             |                  |
|                               | 750  | 625        | 0.64           | 3        |                |               |                             |                  |                |               |                             |                  |                |              |                           |                  |                |               |                             |                  |                |              |                             |                  |                |               |                             |                  |
|                               | 1000                                       | 741        | 0.94           | 4        |                |               |                             |                  |                |               |                             |                  |                |              |                           |                  |                |               |                             |                  |                |              |                             |                  |                |               |                             |                  |
| Excavation (leveling)         | 1200                                       | 837        | 1.19           | 5        |                |               |                             |                  |                |               |                             |                  |                |              |                           |                  |                |               |                             |                  |                |              |                             |                  |                |               |                             |                  |
|                               | 1400                                       | 919        | 1.45           | 5        |                |               |                             |                  |                |               |                             |                  |                |              |                           |                  |                |               |                             |                  |                |              |                             |                  |                |               |                             |                  |
| Extreme Excavation (leveling) | 1200                                       | 865        | 1.19           | 4        |                |               |                             |                  |                |               |                             |                  |                |              |                           |                  |                |               |                             |                  |                |              |                             |                  |                |               |                             |                  |
| Bi: 1 01 1                    | 1800                                       | 690        | 1.05           |          |                |               |                             |                  |                |               |                             |                  |                |              |                           |                  |                |               |                             |                  |                |              |                             |                  |                |               |                             |                  |
| Ditch Cleaning                | 2000                                       | 750        | 1.18           |          |                |               |                             |                  |                |               |                             |                  |                |              |                           |                  |                |               |                             |                  |                |              |                             |                  |                |               |                             |                  |
| Tikabla Disab Olaa ii         | 1800                                       | 1010       | 0.88           |          |                |               |                             |                  |                |               |                             |                  |                |              |                           |                  |                |               |                             |                  |                |              |                             |                  |                |               |                             |                  |
| Tiltable Ditch Cleaning       | 2000                                       | 1060       | 0.98           |          |                |               |                             |                  |                |               |                             |                  |                |              |                           |                  |                |               |                             |                  |                |              |                             |                  |                |               |                             |                  |
| *Bucket weight includes Gr    | cket weight includes Ground Engaging Tools |            |                |          |                |               | kimum                       |                  |                |               |                             |                  | cimum          |              |                           |                  |                |               | cimum                       | n mate           |                |              |                             | Not              | recor          | nmen          | ded                         |                  |

density 1800 kg/m<sup>3</sup>

density 1500 kg/m<sup>3</sup>

density 1200 kg/m<sup>3</sup>

#### **Bucket Specifications**

Contact your Cat dealer for special bucket requirements.

| CW Quick Coupler Buck         | cavation    The state of the least of the le |             |          |          |                |               |                             | Vari             | iable          | -            | ıstab<br>mm                 | le B             | oom              |              |                             |                  |                |               |                             |                  | One            | -Pie<br>5650 | ce B<br>mm                  | oom              |                |              |                             |                  |
|-------------------------------|--|-------------|----------|----------|----------------|---------------|-----------------------------|------------------|----------------|--------------|-----------------------------|------------------|------------------|--------------|-----------------------------|------------------|----------------|---------------|-----------------------------|------------------|----------------|--------------|-----------------------------|------------------|----------------|--------------|-----------------------------|------------------|
| Stick Length                  |  |             |          |          |                | 2200          | mm                          |                  |                | 2500         | mm                          |                  |                  | 2900         | ) mm                        |                  |                | 2200          | mm                          |                  |                | 2500         | mm                          |                  |                | 2900         | ) mm                        |                  |
|                               | Width  |             | ļ        | Adapters | Free on wheels | Dozer lowered | 1 set of stabilizer lowered | Fully stabilized | Free on wheels | Dozerlowered | 1 set of stabilizer lowered | Fully stabilized | Free on wheels   | Dozerlowered | 1 set of stabilizer lowered | Fully stabilized | Free on wheels | Dozer lowered | 1 set of stabilizer lowered | Fully stabilized | Free on wheels | Dozerlowered | 1 set of stabilizer lowered | Fully stabilized | Free on wheels | Dozerlowered | 1 set of stabilizer lowered | Fully stabilized |
|                               | -  | _           | -        |          | 뇬              | ۵             | -                           | 丘                | 뇬              | ٥            | -                           | 교                | ᅭ                | ۵            | -                           | 교                | 뇬              | ۵             | -                           | 고                | 正              | ٥            | -                           | 고                | 正              | ۵            | -                           | 표                |
|                               |  |             | -        | 3        |                |               |                             |                  |                |              |                             |                  |                  |              |                             |                  |                |               |                             |                  |                |              |                             |                  |                |              |                             |                  |
|                               |  |             | -        | 3        |                |               |                             |                  |                |              |                             |                  |                  |              |                             |                  |                |               |                             |                  |                |              |                             |                  |                |              |                             |                  |
|                               |  |             |          | 4<br>5   |                |               |                             |                  |                |              |                             |                  |                  |              |                             |                  |                |               |                             |                  |                |              |                             |                  |                |              |                             |                  |
| Excavation                    |  |             | 5        |          |                |               |                             |                  |                |              |                             |                  |                  |              |                             |                  |                |               |                             |                  |                |              |                             |                  |                |              |                             |                  |
|                               |  |             |          |          |                |               |                             |                  |                |              |                             |                  |                  |              |                             |                  |                |               |                             |                  |                |              |                             |                  |                |              |                             |                  |
|                               |  |             | <u> </u> | 5        |                |               |                             |                  |                |              |                             |                  |                  |              |                             |                  |                |               |                             |                  |                |              |                             |                  |                |              |                             |                  |
|                               |  |             |          | 5        |                |               |                             |                  |                |              |                             |                  |                  |              |                             |                  |                |               |                             |                  |                |              |                             |                  |                |              |                             |                  |
|                               | 600  | 572         | 0.44     | 3        |                |               |                             |                  |                |              |                             |                  |                  |              |                             |                  |                |               |                             |                  |                |              |                             |                  |                |              |                             |                  |
|                               | 750  | 615         | 0.59     | 3        |                |               |                             |                  |                |              |                             |                  |                  |              |                             |                  |                |               |                             |                  |                |              |                             |                  |                |              |                             |                  |
| Extreme Excavation            | 1250   | 791         | 1.13     | 4        |                |               |                             |                  |                |              |                             |                  |                  |              |                             |                  |                |               |                             |                  |                |              |                             |                  |                |              |                             |                  |
|                               | 1300   | 828         | 1.18     | 4        |                |               |                             |                  |                |              |                             |                  |                  |              |                             |                  |                |               |                             |                  |                |              |                             |                  |                |              |                             |                  |
|                               | 1400   | 865         | 1.30     | 5        |                |               |                             |                  |                |              |                             |                  |                  |              |                             |                  |                |               |                             |                  |                |              |                             |                  |                |              |                             |                  |
|                               | 750  | 625         | 0.64     | 3        |                |               |                             |                  |                |              |                             |                  |                  |              |                             |                  |                |               |                             |                  |                |              |                             |                  |                |              |                             |                  |
|                               | 1000   | 705         | 0.94     | 4        |                |               |                             |                  |                |              |                             |                  |                  |              |                             |                  |                |               |                             |                  |                |              |                             |                  |                |              |                             |                  |
| Excavation (leveling)         | 1200   | 802         | 1.19     | 5        |                |               |                             |                  |                |              |                             |                  |                  |              |                             |                  |                |               |                             |                  |                |              |                             |                  |                |              |                             |                  |
|                               | 1400   | 882         | 1.45     | 5        |                |               |                             |                  |                |              |                             |                  |                  |              |                             |                  |                |               |                             |                  |                |              |                             |                  |                |              |                             |                  |
|                               | 1500   | 923         | 1.57     | 5        |                |               |                             |                  | _              |              |                             |                  |                  |              |                             |                  |                |               |                             |                  |                |              |                             |                  |                |              |                             |                  |
| Extreme Excavation (leveling) | 1200   | 828         | 1.19     | 4        |                |               |                             |                  |                |              |                             |                  |                  |              |                             |                  |                |               |                             |                  |                |              |                             |                  |                |              |                             |                  |
| Ditch Cleaning                | 1800   | 650         | 1.05     |          |                |               |                             |                  |                |              |                             |                  |                  |              |                             |                  |                |               |                             |                  |                |              |                             |                  |                |              |                             |                  |
| - Brion Grouning              | 2000   | 710         | 1.18     |          |                |               |                             |                  |                |              |                             |                  |                  |              |                             |                  |                |               |                             |                  |                |              |                             |                  |                |              |                             |                  |
| Tiltable Ditch Cleaning       | 1800<br>2000   | 970<br>1020 | 0.88     |          |                |               |                             |                  |                |              |                             |                  |                  |              |                             |                  |                |               |                             |                  |                |              |                             |                  |                |              |                             |                  |
| *Bucket weight includes Gr    | ound Eng   | jaging To   | ols      |          |                |               | kimun<br>sity 18            |                  |                |              |                             |                  | kimun<br>sity 1! |              |                             |                  |                |               |                             | n mate<br>200 kç |                |              |                             | Not              | recor          | nmen         | ded                         |                  |

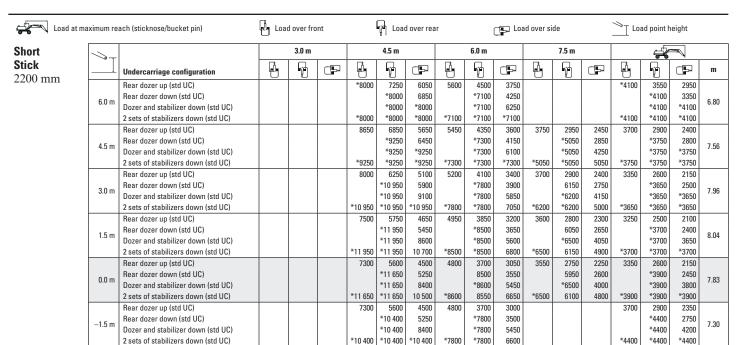
#### **Work Tools Matching Guide**

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.

|   |              |               |      |                | Vari | 5    | 440 m                       |      | oom  |                            |      |          |                |      | . 5    | Piece<br>650 m              | m                                  |          |                            |       |
|---|--------------|---------------|------|----------------|------|------|-----------------------------|------|------|----------------------------|------|----------|----------------|------|--------|-----------------------------|------------------------------------|----------|----------------------------|-------|
|   |              |               | Į,   | Dozer<br>owere |      | of s | 2 sets<br>stabiliz<br>owere | zers |      | Dozer<br>I stabil<br>owere | izer | I        | Dozer<br>owere |      | of s   | 2 sets<br>stabiliz<br>owere | ers                                |          | Dozer<br>I stabil<br>owere | lizer |
| Without Quick Coupler   | C+: -        | .             | 2200 | 2500           | 2900 | 2200 | 2500                        | 2900 | 2200 | 2500                       | 2900 | 2200     | 2500           | 2900 | 2200   | 2500                        | 2900                               | 2200     | 2500                       | 2900  |
|   |              | k Length (mm) | 2    | 2              | 2    | 2    | 2                           | 2    | 2    | 2                          | 2    | 2        | 2              | 2    | 2      | 2                           | 2                                  | 2        | 2                          | 2     |
| Hammers   |              | 20C S, H130 S |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
|   | MP15         | CC, CR<br>PP  |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
| Multiproposers  | MP15<br>MP15 | PS            |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
| wuuuprocessors  |              |               |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
|   | MP15         | S             |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
|   | MP20         | S             |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
| Hydraulic Shears  | S320B        |               |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
| (* boom mounted)  | S325B*       |               |      |                |      |      |                             |      |      |                            |      | <u> </u> |                |      |        |                             |                                    |          |                            |       |
|   | S340B*       |               |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
| Multi-Grapples  | G315B        | D<br>R        |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
| Compactor   | CVP110       |               |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
| Crushers  | P315         |               |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
|   |              | 400           |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
|   | GSH15B       | 500           |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
|   | 5 tines      | 600           |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
|   |              | 800           |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
|   |              | 400           |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
|   | GSH15B       | 500           |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
|   | 4 tines      | 600           |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
| range Peel Grapples   |              | 800           |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
|   |              | 600           |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
| Hammers  Multiprocessors  Hydraulic Shears (* boom mounted)  Multi-Grapples  Compactor  Crushers  Orange Peel Grapples  Pulverizers  With Quick Coupler (CW-4)  Hammers  Multiprocessors  Hydraulic Shear | GSH20B       | 800           |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
|   | 5 tines      | 1000          |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
|   |              | 600           |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
|   | GSH20B       | 800           |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
|   | 4 tines      | 1000          |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
| Pulverizers   | P215         | 1.000         |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
|   |              |               |      |                |      |      |                             | 1    |      |                            |      |          | 1              |      |        |                             |                                    |          |                            |       |
|   |              | 20C S, H130 S |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
|   | MP15         | CC            |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
|   | MP15         | CR, S         |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
| Multiprocessors   | MP15         | PP            |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
|   | MP15         | PS            |      |                |      |      |                             |      |      |                            |      | $\vdash$ |                |      |        |                             |                                    |          |                            |       |
| Hydraulic Shear   | S320B        |               |      |                |      |      |                             |      |      |                            |      | $\vdash$ |                |      |        |                             |                                    |          |                            |       |
|   | G315B        | D             |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
| Multi-Grapples  | G315B        | R             |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
| Compactor   | CVP110       | "             |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
|   | P315         |               |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
|   |              |               |      |                |      |      |                             |      |      |                            |      |          |                |      |        |                             |                                    |          |                            |       |
| . arroneoto   |              |               |      |                |      |      |                             |      |      |                            |      |          |                | Max  | imum r | materi                      | l<br>al dens<br>al dens<br>al dens | sity 180 | 00 kg/n                    | n³    |

#### Lift Capacities – Variable Adjustable Boom (5440 mm)

All values are in kg, without bucket and without QC, with counterweight (4400 kg), heavy lift on.



Medium Stick 2500 mm

|          |                                     | 1        |         |         |         |         |         |       |       |       |       |       |      |       | -        |       |      |
|----------|-------------------------------------|----------|---------|---------|---------|---------|---------|-------|-------|-------|-------|-------|------|-------|----------|-------|------|
| <b>→</b> |                                     |          | 3.0 m   |         |         | 4.5 m   |         |       | 6.0 m |       |       | 7.5 m |      |       | <u> </u> | =     |      |
|          | Undercarriage configuration         | <u>-</u> | 7       | æ       |         | 4       | æ       |       | 7     | G-    |       | 7     | æ    | 0     | 7        | æ     | m    |
|          | Rear dozer up (std UC)              |          |         |         |         |         |         | 5650  | 4500  | 3800  |       |       |      | *3350 | 3350     | 2800  |      |
| 6.0 m    | Rear dozer down (std UC)            |          |         |         |         |         |         |       | *6800 | 4300  |       |       |      |       | *3350    | 3200  | 7.08 |
| 0.0111   | Dozer and stabilizer down (std UC)  |          |         |         |         |         |         |       | *6800 | 6300  |       |       |      |       | *3350    | *3350 | 7.00 |
|          | 2 sets of stabilizers down (std UC) |          |         |         |         |         |         | *6800 | *6800 | *6800 |       |       |      | *3350 | *3350    | *3350 |      |
|          | Rear dozer up (std UC)              |          |         |         | 8750    | 6950    | 5750    | 5500  | 4350  | 3650  | 3800  | 3000  | 2500 | *3150 | 2750     | 2300  |      |
| 4.5 m    | Rear dozer down (std UC)            |          |         |         |         | *8800   | 6550    |       | *7150 | 4150  |       | *5800 | 2850 |       | *3150    | 2650  | 7.81 |
| 4.5 111  | Dozer and stabilizer down (std UC)  |          |         |         |         | *8800   | *8800   |       | *7150 | 6150  |       | *5800 | 4250 |       | *3150    | *3150 | 7.01 |
|          | 2 sets of stabilizers down (std UC) |          |         |         | *8800   | *8800   | *8800   | *7150 | *7150 | *7150 | *5800 | *5800 | 5100 | *3150 | *3150    | *3150 |      |
|          | Rear dozer up (std UC)              |          |         |         | 8100    | 6350    | 5150    | 5250  | 4100  | 3400  | 3700  | 2900  | 2400 | *3150 | 2500     | 2050  |      |
| 3.0 m    | Rear dozer down (std UC)            |          |         |         |         | *10 600 | 5950    |       | *7600 | 3900  |       | *6050 | 2750 |       | *3150    | 2400  | 8.19 |
| 3.0 111  | Dozer and stabilizer down (std UC)  |          |         |         |         | *10 600 | 9200    |       | *7600 | 5900  |       | *6050 | 4150 |       | *3150    | *3150 | 0.13 |
|          | 2 sets of stabilizers down (std UC) |          |         |         | *10 600 | *10 600 | *10 600 | *7600 | *7600 | 7100  | *6050 | *6050 | 5000 | *3150 | *3150    | *3150 |      |
|          | Rear dozer up (std UC)              |          |         |         | 7550    | 5800    | 4700    | 5000  | 3850  | 3200  | 3600  | 2800  | 2300 | 3100  | 2400     | 1950  |      |
| 1.5 m    | Rear dozer down (std UC)            |          |         |         |         | *11 800 | 5450    |       | *8300 | 3700  |       | 6050  | 2650 |       | *3250    | 2300  | 8.28 |
| 1.5111   | Dozer and stabilizer down (std UC)  |          |         |         |         | *11 800 | 8650    |       | *8300 | 5650  |       | *6350 | 4050 |       | *3250    | *3250 | 0.20 |
|          | 2 sets of stabilizers down (std UC) |          |         |         | *11 800 | *11 800 | 10 750  | *8300 | *8300 | 6850  | *6350 | 6150  | 4850 | *3250 | *3250    | *3250 |      |
|          | Rear dozer up (std UC)              |          |         |         | 7300    | 5600    | 4450    | 4800  | 3700  | 3050  | 3500  | 2700  | 2250 | 3200  | 2450     | 2000  |      |
| 0.0 m    | Rear dozer down (std UC)            |          |         |         |         | *11 800 | 5250    |       | 8500  | 3500  |       | 5950  | 2600 |       | *3500    | 2350  | 8.07 |
| 0.0 111  | Dozer and stabilizer down (std UC)  |          |         |         |         | *11 800 | 8400    |       | *8600 | 5450  |       | *6600 | 3950 |       | *3500    | *3500 | 0.07 |
|          | 2 sets of stabilizers down (std UC) |          |         |         | *11 800 | *11 800 | 10 500  | *8600 | 8550  | 6650  | *6600 | 6050  | 4800 | *3500 | *3500    | *3500 |      |
|          | Rear dozer up (std UC)              | *10 000  | *10 000 | 8350    | 7300    | 5550    | 4450    | 4750  | 3650  | 3000  | 3500  | 2700  | 2250 | 3500  | 2700     | 2200  |      |
| -1.5 m   | Rear dozer down (std UC)            |          | *10 000 | *10 000 |         | *10 750 | 5200    |       | *8000 | 3450  |       | *5200 | 2600 |       | *4050    | 2550  | 7.55 |
| 1.0111   | Dozer and stabilizer down (std UC)  |          | *10 000 | *10 000 |         | *10 750 | 8350    |       | *8000 | 5400  |       | *5200 | 4000 |       | *4050    | 3950  | 7.00 |
|          | 2 sets of stabilizers down (std UC) | *10 000  | *10 000 | *10 000 | *10 750 | *10 750 | 10 450  | *8000 | *8000 | 6600  | *5200 | *5200 | 4800 | *4050 | *4050    | *4050 |      |
|          | Rear dozer up (std UC)              |          |         |         | 7400    | 5650    | 4550    | 4850  | 3750  | 3050  |       |       |      |       |          |       |      |
| -3.0 m   | Rear dozer down (std UC)            |          |         |         |         | *8650   | 5300    |       | *6300 | 3550  |       |       |      |       |          |       |      |
| 0.0 111  | Dozer and stabilizer down (std UC)  |          |         |         |         | *8650   | 8450    |       | *6300 | 5500  |       |       |      |       |          |       |      |
|          | 2 sets of stabilizers down (std UC) |          |         |         | *8650   | *8650   | *8650   | *6300 | *6300 | *6300 |       |       |      |       |          |       |      |

<sup>\*</sup>Limited by hydraulic rather than tipping load

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The load point is the center line of the bucket pivot mounting pin on the stick. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface and the Variable Boom Cylinder adjusted to the maximum length. For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

#### Lift Capacities – Variable Adjustable Boom (5440 mm)

All values are in kg, without bucket and without QC, with counterweight (4400 kg), heavy lift on.

| Load at ma       | aximum re | ach (sticknose/bucket pin)          | Load  | l over fro | nt    |         | Load    | l over rea | r     | (     | Loa   | d over sid | de    |       | Loa   | ad point h | eight |      |
|------------------|-----------|-------------------------------------|-------|------------|-------|---------|---------|------------|-------|-------|-------|------------|-------|-------|-------|------------|-------|------|
| Long             | <u></u>   |                                     |       | 3.0 m      |       |         | 4.5 m   |            |       | 6.0 m |       |            | 7.5 m |       |       | =          | =     |      |
| Stick<br>2900 mm |           | Undercarriage configuration         |       | P          | æ     | 4       | 7       | GP         | 0     | 7     | Œ     |            | 9     | Œ     | 4     | 9          | æ     | m    |
| 2700 IIIII       |           | Rear dozer up (std UC)              |       |            |       |         |         |            | 5700  | 4600  | 3850  | *3150      | 3050  | 2550  | *2800 | *2800      | 2500  |      |
|                  | 6.0 m     | Rear dozer down (std UC)            |       |            |       |         |         |            |       | *6350 | 4350  |            | *3150 | 2900  |       | *2800      | *2800 | 7.54 |
|                  | 0.0 111   | Dozer and stabilizer down (std UC)  |       |            |       |         |         |            |       | *6350 | *6350 |            | *3150 | *3150 |       | *2800      | *2800 | 7.54 |
|                  |           | 2 sets of stabilizers down (std UC) |       |            |       |         |         |            | *6350 | *6350 | *6350 | *3150      | *3150 | *3150 | *2800 | *2800      | *2800 |      |
|                  |           | Rear dozer up (std UC)              |       |            |       | *7900   | 7050    | 5850       | 5550  | 4400  | 3700  | 3850       | 3000  | 2500  | *2650 | 2550       | 2100  |      |
|                  | 4.5 m     | Rear dozer down (std UC)            |       |            |       |         | *7900   | 6650       |       | *6850 | 4200  |            | *5700 | 2900  |       | *2650      | 2400  | 8.23 |
|                  | 4.3 111   | Dozer and stabilizer down (std UC)  |       |            |       |         | *7900   | *7900      |       | *6850 | 6200  |            | *5700 | 4300  |       | *2650      | *2650 | 0.23 |
|                  |           | 2 sets of stabilizers down (std UC) |       |            |       | *7900   | *7900   | *7900      | *6850 | *6850 | *6850 | *5700      | *5700 | 5100  | *2650 | *2650      | *2650 |      |
|                  |           | Rear dozer up (std UC)              |       |            |       | 8200    | 6450    | 5250       | 5250  | 4150  | 3450  | 3700       | 2900  | 2400  | *2600 | 2300       | 1900  |      |
|                  | 3.0 m     | Rear dozer down (std UC)            |       |            |       |         | *10 050 | 6050       |       | *7350 | 3950  |            | *5850 | 2800  |       | *2600      | 2200  | 8.59 |
|                  | 3.0 111   | Dozer and stabilizer down (std UC)  |       |            |       |         | *10 050 | 9350       |       | *7350 | 5900  |            | *5850 | 4200  |       | *2600      | *2600 | 8.59 |
|                  |           | 2 sets of stabilizers down (std UC) |       |            |       | *10 050 | *10 050 | *10 050    | *7350 | *7350 | 7150  | *5850      | *5850 | 5000  | *2600 | *2600      | *2600 |      |
|                  |           | Rear dozer up (std UC)              |       |            |       | 7600    | 5850    | 4750       | 5000  | 3900  | 3200  | 3600       | 2800  | 2300  | *2700 | 2200       | 1800  |      |
|                  | 1.5 m     | Rear dozer down (std UC)            |       |            |       |         | *11 550 | 5500       |       | *8050 | 3700  |            | 6050  | 2650  |       | *2700      | 2100  | 8.67 |
|                  | 1.5 111   | Dozer and stabilizer down (std UC)  |       |            |       |         | *11 550 | 8700       |       | *8050 | 5650  |            | *6150 | 4050  |       | *2700      | *2700 | 8.07 |
|                  |           | 2 sets of stabilizers down (std UC) |       |            |       | *11 550 | *11 550 | 10 850     | *8050 | *8050 | 6850  | *6150      | 6150  | 4850  | *2700 | *2700      | *2700 |      |
|                  |           | Rear dozer up (std UC)              |       |            |       | 7300    | 5550    | 4450       | 4800  | 3700  | 3000  | 3500       | 2700  | 2200  | *2900 | 2250       | 1850  |      |
|                  | 0.0 m     | Rear dozer down (std UC)            |       |            |       |         | *11 850 | 5200       |       | 8500  | 3500  |            | 5900  | 2550  |       | *2900      | 2150  | 8.47 |
|                  | 0.0 111   | Dozer and stabilizer down (std UC)  |       |            |       |         | *11 850 | 8350       |       | *8600 | 5450  |            | *6500 | 3950  |       | *2900      | *2900 | 0.47 |
|                  |           | 2 sets of stabilizers down (std UC) |       |            |       | *11 850 | *11 850 | 10 450     | *8600 | 8500  | 6600  | *6500      | 6000  | 4750  | *2900 | *2900      | *2900 |      |
|                  |           | Rear dozer up (std UC)              | *9450 | *9450      | 8150  | 7200    | 5450    | 4350       | 4700  | 3600  | 2900  | 3450       | 2650  | 2150  | 3200  | 2450       | 2000  |      |
|                  | _1.5 m    | Rear dozer down (std UC)            |       | *9450      | *9450 |         | *11 100 | 5150       |       | *8200 | 3400  |            | 5850  | 2500  |       | *3300      | 2350  | 7.98 |
|                  | -1.5 111  | Dozer and stabilizer down (std UC)  |       | *9450      | *9450 |         | *11 100 | 8300       |       | *8200 | 5350  |            | *6100 | 3900  |       | *3300      | *3300 | 7.96 |
|                  |           | 2 sets of stabilizers down (std UC) | *9450 | *9450      | *9450 | *11 100 | *11 100 | 10 350     | *8200 | *8200 | 6550  | *6100      | 6000  | 4700  | *3300 | *3300      | *3300 |      |
|                  |           | Rear dozer up (std UC)              |       |            |       | 7250    | 5550    | 4400       | 4750  | 3650  | 2950  |            |       |       |       |            |       |      |
|                  | -3.0 m    | Rear dozer down (std UC)            |       | İ          |       |         | *9300   | 5200       |       | *6850 | 3450  | İ          | İ     |       | İ     |            |       | İ    |
|                  | _3.0 m    | Dozer and stabilizer down (std UC)  |       | J          |       |         | *9300   | 8350       |       | *6850 | 5400  |            | J     |       |       |            |       |      |
|                  |           | 2 sets of stabilizers down (std UC) |       |            |       | *9300   | *9300   | *9300      | *6850 | *6850 | 6550  |            |       |       |       |            |       |      |

<sup>\*</sup>Limited by hydraulic rather than tipping load.

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The load point is the center line of the bucket pivot mounting pin on the stick. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface and the Variable Boom Cylinder adjusted to the maximum length. For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

#### **Lift Capacities – One-Piece Boom (5650 mm)**

All values are in kg, without bucket and without QC, with counterweight (4400 kg), heavy lift on.

\*8450

\*10 900

\*10 900

\*8450

\*10 900

\*10 900

\*10 900

\*10 900

\*8450

8700

10 400

10 900

\*10 900

\*10 800

7400

\*8800

\*10 800

5700

\*8800

\*8800

\*8800

10 400

4600

5400

8500

\*8800

\*8150

4850

\*6450

\*8150

3800

\*6450

\*6450

\*6450

6550

3100

3600

5500

\*6450

\*4650

\*5200

\*4650

3450

\*5200

\*5200

\*5200

\*4650

2850

3250

4950

\*5200

6.51

Load at maximum reach (sticknose/bucket pin) Load over front Load over rear → T Load point height Load over side **Short** 3.0 m 4.5 m 6.0 m 7.5 m Stick 4 4 M œ m Undercarriage configuration 2200 mm Rear dozer up (std UC) 5550 4450 3750 \*4050 3400 2900 Rear dozer down (std UC) \*6800 4250 \*4050 3250 6.0 m 6.96 Dozer and stabilizer down (std UC) \*6800 6200 \*4050 \*4050 2 sets of stabilizers down (std UC) \*6800 \*6800 \*6800 \*4050 \*4050 \*4050 Rear dozer up (std UC) 8500 6750 5400 4300 3800 2500 2400 5600 3600 3000 3600 2850 Rear dozer down (std UC) 6150 2850 \*9000 6400 \*7250 4100 \*3800 2700 7.70 Dozer and stabilizer down (std UC) \*9000 \*9000 \*7250 6050 \*6300 4250 \*3800 \*3800 2 sets of stabilizers down (std UC) \*9000 \*9000 \*9000 \*7250 \*7250 7250 \*6300 6300 5050 \*3800 \*3800 \*3800 Rear dozer up (std UC) 7900 6150 5050 5150 4050 3400 3700 2900 2450 3300 2550 2150 Rear dozer down (std UC) \*3750 \*8000 2800 3.0 m 8.09 Dozer and stabilizer down (std UC) °10 900 9000 \*8000 5800 \*6650 4150 \*3750 3700 2 sets of stabilizers down (std UC) \*10 900 \*10 900 \*8000 \*8000 \*6650 \*3750 \*3750 \*3750 10 900 7000 6200 4950 Rear dozer up (std UC) 7450 5750 4650 4950 3850 3200 3600 2800 2350 3150 2450 2050 Rear dozer down (std UC) 12 050 5400 8550 3650 5950 2700 \*3800 2350 8.17 1.5 m Dozer and stabilizer down (std UC) \*12 050 8500 \*8600 5600 6700 4050 \*3800 3550 2 sets of stabilizers down (std UC) \*12 050 \*12 050 10 600 \*8600 8600 6750 \*6850 6100 4850 \*3800 \*3800 \*3800 Rear dozer up (std UC) 7300 5600 4500 4800 3700 3050 3550 2750 2250 3250 2550 2100 \*11 850 3550 \*4100 Rear dozer down (std UC) 5250 8400 5900 2600 2400 7.96 Dozer and stabilizer down (std UC) \*11 850 \*4100 8350 \*8700 5450 6650 4000 3650 \*11 850 \*6700 6000 4750 \*4100 2 sets of stabilizers down (std UC) \*11 850 10 400 \*8700 8450 6600 \*4100 \*4100 Rear dozer up (std UC) \*8450 \*8450 \*8450 5600 4500 3700 3050 2800 2300 Rear dozer down (std UC) \*8450 \*8450 \*8150 3500 \*4650 °10 800 2650 -1.5 m 7 44 Dozer and stabilizer down (std UC) 4050 \*8450 \*8450 °10 800 8350 \*8150 5400 \*4650

Medium Stick 2500 mm

| \> -     |                                     |         | 3.0 m   |         |         | 4.5 m   |         |       | 6.0 m |       |       | 7.5 m |      |          |       |       |      |
|----------|-------------------------------------|---------|---------|---------|---------|---------|---------|-------|-------|-------|-------|-------|------|----------|-------|-------|------|
|          | Undercarriage configuration         |         | 7       | æ       | P.      | 7       |         | 4     | P     |       | 4     | P     | GP   | <b>B</b> | P     | Œ₽    | m    |
|          | Rear dozer up (std UC)              |         |         |         |         |         |         | 5600  | 4500  | 3800  |       |       |      | *3350    | 3250  | 2750  |      |
| 0.0      | Rear dozer down (std UC)            |         |         |         |         |         |         |       | *6450 | 4300  |       |       |      | İ        | *3350 | 3100  | 7.01 |
| 6.0 m    | Dozer and stabilizer down (std UC)  |         |         |         |         |         |         |       | *6450 | 6250  |       |       |      | l        | *3350 | *3350 | 7.21 |
|          | 2 sets of stabilizers down (std UC) |         |         |         |         |         |         | *6450 | *6450 | *6450 |       |       |      | *3350    | *3350 | *3350 |      |
|          | Rear dozer up (std UC)              |         |         |         |         |         |         | 5450  | 4350  | 3650  | 3800  | 3000  | 2500 | *3250    | 2700  | 2250  |      |
|          | Rear dozer down (std UC)            |         |         |         |         |         |         |       | *7000 | 4150  |       | 6200  | 2900 | İ        | *3250 | 2600  | 7.00 |
| 4.5 m    | Dozer and stabilizer down (std UC)  |         |         |         |         |         |         |       | *7000 | 6100  |       | *6200 | 4250 | l        | *3250 | *3250 | 7.93 |
|          | 2 sets of stabilizers down (std UC) |         |         |         |         |         |         | *7000 | *7000 | *7000 | *6200 | *6200 | 5050 | *3250    | *3250 | *3250 |      |
|          | Rear dozer up (std UC)              |         |         |         | 8000    | 6250    | 5150    | 5200  | 4100  | 3400  | 3700  | 2900  | 2450 | 3150     | 2450  | 2050  |      |
| 3.0 m    | Rear dozer down (std UC)            |         |         |         |         | *10 500 | 5900    |       | *7800 | 3900  |       | 6100  | 2800 | İ        | *3250 | 2350  | 8.30 |
| 3.0 111  | Dozer and stabilizer down (std UC)  |         |         |         |         | *10 500 | 9100    |       | *7800 | 5850  |       | *6500 | 4150 |          | *3250 | *3250 | 0.30 |
|          | 2 sets of stabilizers down (std UC) |         |         |         | *10 500 | *10 500 | *10 500 | *7800 | *7800 | 7000  | *6500 | 6200  | 4950 | *3250    | *3250 | *3250 |      |
|          | Rear dozer up (std UC)              |         |         |         | 7500    | 5800    | 4700    | 4950  | 3850  | 3200  | 3600  | 2800  | 2350 | 3050     | 2350  | 1950  |      |
| 1.5 m    | Rear dozer down (std UC)            |         |         |         |         | *11 850 | 5450    |       | *8500 | 3700  |       | 5950  | 2650 |          | *3400 | 2250  | 8.39 |
| 1.5 111  | Dozer and stabilizer down (std UC)  |         |         |         |         | *11 850 | 8550    |       | *8500 | 5600  |       | 6700  | 4050 |          | *3400 | *3400 | 0.33 |
|          | 2 sets of stabilizers down (std UC) |         |         |         | *11 850 | *11 850 | 10 650  | *8500 | *8500 | 6750  | *6750 | 6100  | 4850 | *3400    | *3400 | *3400 |      |
|          | Rear dozer up (std UC)              |         |         |         | 7300    | 5600    | 4500    | 4800  | 3700  | 3050  | 3500  | 2700  | 2250 | 3100     | 2400  | 2000  |      |
| 0.0 m    | Rear dozer down (std UC)            |         |         |         |         | *11 950 | 5250    |       | 8350  | 3550  |       | 5850  | 2600 |          | *3700 | 2300  | 8.18 |
| 0.0 111  | Dozer and stabilizer down (std UC)  |         |         |         |         | *11 950 | 8350    |       | *8700 | 5450  |       | 6600  | 3950 |          | *3700 | 3500  | 0.10 |
|          | 2 sets of stabilizers down (std UC) |         |         |         | *11 950 | *11 950 | 10 400  | *8700 | 8450  | 6600  | *6750 | 6000  | 4750 | *3700    | *3700 | *3700 |      |
|          | Rear dozer up (std UC)              | *9750   | *9750   | 8400    | 7250    | 5550    | 4500    | 4750  | 3650  | 3000  | 3500  | 2700  | 2250 | 3400     | 2650  | 2200  |      |
| –1.5 m   | Rear dozer down (std UC)            |         | *9750   | *9750   |         | *11 100 | 5250    |       | *8300 | 3500  |       | 5850  | 2600 |          | *4300 | 2500  | 7.67 |
| -1.5 111 | Dozer and stabilizer down (std UC)  |         | *9750   | *9750   |         | *11 100 | 8300    |       | *8300 | 5350  |       | *6150 | 3950 |          | *4300 | 3850  | 7.07 |
|          | 2 sets of stabilizers down (std UC) | *9750   | *9750   | *9750   | *11 100 | *11 100 | 10 350  | *8300 | *8300 | 6550  | *6150 | 5950  | 4750 | *4300    | *4300 | *4300 |      |
|          | Rear dozer up (std UC)              | *12 050 | 11 200  | 8550    | 7350    | 5650    | 4550    | 4800  | 3700  | 3050  |       |       |      | 4100     | 3200  | 2650  |      |
| –3.0 m   | Rear dozer down (std UC)            |         | *12 050 | 10 250  |         | *9300   | 5300    |       | *6900 | 3550  |       |       |      |          | *5450 | 3050  | 6.78 |
| -3.U III | Dozer and stabilizer down (std UC)  |         | *12 050 | *12 050 |         | *9300   | 8400    |       | *6900 | 5450  |       |       |      |          | *5450 | 4600  | 0.7  |
|          | 2 sets of stabilizers down (std UC) | *12 050 | *12 050 | *12 050 | *9300   | *9300   | *9300   | *6900 | *6900 | 6600  |       |       |      | *5450    | *5450 | *5450 |      |

<sup>\*</sup>Limited by hydraulic rather than tipping load.

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The load point is the center line of the bucket pivot mounting pin on the stick. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface. For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

2 sets of stabilizers down (std UC)

Dozer and stabilizer down (std UC)

2 sets of stabilizers down (std UC)

Rear dozer up (std UC)

-3.0 m

Rear dozer down (std UC)

#### **Lift Capacities – One-Piece Boom (5650 mm)**

All values are in kg, without bucket and without QC, with counterweight (4400 kg), heavy lift on.

| Load at ma       | kimum re          | ach (sticknose/bucket pin)          | Load     | d over fro | nt      |         | P Load  | l over rea | r        | (     | Loa   | d over sid | de    |       | Loa   | ad point h | •     |      |
|------------------|-------------------|-------------------------------------|----------|------------|---------|---------|---------|------------|----------|-------|-------|------------|-------|-------|-------|------------|-------|------|
| Long             | <b>&gt;&gt;</b> - |                                     |          | 3.0 m      |         |         | 4.5 m   |            |          | 6.0 m |       |            | 7.5 m |       |       | 4          | =     |      |
| Stick<br>2900 mm |                   | Undercarriage configuration         | <b>4</b> | P          | Œ       | A.      | P       | ŒP         | <b>4</b> | P     | Œ     | <b>4</b>   | 7     | Œ     | 4     | 7          | ŒP    | m    |
| 2700 111111      |                   | Rear dozer up (std UC)              |          |            |         |         |         |            |          |       |       | *3850      | 3050  | 2550  | *2800 | *2800      | 2450  |      |
|                  | 6.0 m             | Rear dozer down (std UC)            |          |            |         |         |         |            |          |       |       |            | *3850 | 2950  |       | *2800      | *2800 | 7.66 |
|                  | 0.0 111           | Dozer and stabilizer down (std UC)  |          |            |         |         |         |            |          |       |       |            | *3850 | *3850 |       | *2800      | *2800 | 7.00 |
|                  |                   | 2 sets of stabilizers down (std UC) |          |            |         |         |         |            |          |       |       | *3850      | *3850 | *3850 | *2800 | *2800      | *2800 |      |
|                  |                   | Rear dozer up (std UC)              |          |            |         |         |         |            | 5500     | 4350  | 3700  | 3800       | 3000  | 2550  | *2700 | 2500       | 2050  |      |
|                  | 4.5 m             | Rear dozer down (std UC)            |          |            |         |         |         |            |          | *6600 | 4150  |            | *5900 | 2900  |       | *2700      | 2400  | 8.34 |
|                  | 4.3 111           | Dozer and stabilizer down (std UC)  |          |            |         |         |         |            |          | *6600 | 6150  |            | *5900 | 4250  |       | *2700      | *2700 | 0.34 |
|                  |                   | 2 sets of stabilizers down (std UC) |          |            |         |         |         |            | *6600    | *6600 | *6600 | *5900      | *5900 | 5100  | *2700 | *2700      | *2700 |      |
|                  |                   | Rear dozer up (std UC)              |          |            |         | 8100    | 6350    | 5200       | 5200     | 4100  | 3450  | 3700       | 2900  | 2450  | *2700 | 2250       | 1850  |      |
|                  | 0.0               | Rear dozer down (std UC)            |          |            |         |         | *9900   | 6000       |          | *7500 | 3900  | İ          | 6100  | 2800  | İ     | *2700      | 2150  | 8.69 |
|                  | 3.0 m             | Dozer and stabilizer down (std UC)  |          |            |         |         | *9900   | 9200       |          | *7500 | 5850  | l          | *6250 | 4150  | l     | *2700      | *2700 | 8.69 |
|                  |                   | 2 sets of stabilizers down (std UC) |          |            |         | *9900   | *9900   | *9900      | *7500    | *7500 | 7050  | *6250      | 6200  | 4950  | *2700 | *2700      | *2700 |      |
|                  |                   | Rear dozer up (std UC)              |          |            |         | 7550    | 5800    | 4700       | 4950     | 3850  | 3200  | 3550       | 2800  | 2300  | *2800 | 2150       | 1800  |      |
|                  |                   | Rear dozer down (std UC)            |          |            |         |         | *11 500 | 5500       |          | *8250 | 3700  | İ          | 5950  | 2650  | İ     | *2800      | 2100  |      |
|                  | 1.5 m             | Dozer and stabilizer down (std UC)  |          |            |         |         | *11 500 | 8600       |          | *8250 | 5600  |            | *6600 | 4000  |       | *2800      | *2800 | 8.77 |
|                  |                   | 2 sets of stabilizers down (std UC) |          |            |         | *11 500 | *11 500 | 10 700     | *8250    | *8250 | 6750  | *6600      | 6050  | 4800  | *2800 | *2800      | *2800 |      |
|                  |                   | Rear dozer up (std UC)              |          |            |         | 7250    | 5550    | 4450       | 4750     | 3700  | 3000  | 3450       | 2700  | 2200  | 2850  | 2200       | 1800  |      |
|                  |                   | Rear dozer down (std UC)            |          |            |         |         | *11 950 | 5200       |          | 8350  | 3500  |            | 5800  | 2550  |       | *3050      | 2100  |      |
|                  | 0.0 m             | Dozer and stabilizer down (std UC)  |          |            |         |         | *11 950 | 8300       |          | *8650 | 5400  |            | 6600  | 3900  |       | *3050      | *3050 | 8.58 |
|                  |                   | 2 sets of stabilizers down (std UC) |          |            |         | *11 950 | *11 950 | 10 350     | *8650    | 8400  | 6550  | *6750      | 5950  | 4700  | *3050 | *3050      | *3050 |      |
| İ                |                   | Rear dozer up (std UC)              | *9250    | *9250      | 8200    | 7200    | 5450    | 4400       | 4700     | 3600  | 2950  | 3450       | 2650  | 2200  | 3100  | 2400       | 1950  |      |
|                  |                   | Rear dozer down (std UC)            |          | *9250      | *9250   |         | *11 400 | 5150       |          | 8250  | 3450  | İ          | 5800  | 2500  | İ     | *3500      | 2300  |      |
|                  | −1.5 m            | Dozer and stabilizer down (std UC)  |          | *9250      | *9250   |         | *11 400 | 8250       |          | *8400 | 5300  |            | *6400 | 3900  |       | *3500      | *3500 | 8.10 |
|                  |                   | 2 sets of stabilizers down (std UC) | *9250    | *9250      | *9250   | *11 400 | *11 400 | 10 300     | *8400    | 8300  | 6450  | *6400      | 5900  | 4650  | *3500 | *3500      | *3500 |      |
|                  |                   | Rear dozer up (std UC)              | *13 350  | 10 950     | 8400    | 7250    | 5550    | 4450       | 4700     | 3650  | 2950  |            |       |       | 3650  | 2850       | 2350  |      |
|                  |                   | Rear dozer down (std UC)            |          | *13 350    | 10 050  |         | *9900   | 5200       |          | *7350 | 3450  | İ          |       |       | İ     | *4400      | 2700  | 7.00 |
|                  | –3.0 m            | Dozer and stabilizer down (std UC)  |          | *13 350    | *13 350 |         | *9900   | 8300       |          | *7350 | 5350  |            |       |       |       | *4400      | 4100  | 7.26 |
|                  |                   | 2 sets of stabilizers down (std UC) | *13 350  | *13 350    | *13 350 | *9900   | *9900   | *9900      | *7350    | *7350 | 6500  |            |       |       | *4400 | *4400      | *4400 |      |
| ļ                |                   | Rear dozer up (std UC)              |          |            |         | *7000   | 5750    | 4650       |          |       |       |            |       |       |       |            |       |      |
|                  |                   | Rear dozer down (std UC)            |          |            |         |         | *7000   | 5400       |          |       |       | l          |       |       | l     | j          |       |      |
|                  | –4.5 m            | Dozer and stabilizer down (std UC)  |          |            |         |         | *7000   | *7000      |          |       |       |            |       |       |       | ļ          |       |      |
|                  |                   | 2 sets of stabilizers down (std UC) |          |            |         | *7000   | *7000   | *7000      |          |       |       |            |       |       |       |            |       |      |

<sup>\*</sup>Limited by hydraulic rather than tipping load.

Lift capacity ratings are based on ISO 10567:2007, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. The load point is the center line of the bucket pivot mounting pin on the stick. The oscillating axle must be locked. Lifting capacities are based on the machine standing on a firm uniform supporting surface. For lifting capacity including bucket and/or quick coupler, the respective weight has to be subtracted from above values. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

### **M322D Wheel Excavator Standard Equipment**

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

#### **Electrical**

Alternator, 75 A

Lights

Boom working light

Cab interior light

Roading lights two front

Roading lights two LED modules rear

Rotating beacon on cab

Working lights, cab mounted

(front and rear)

Main shut-off switch

Maintenance free batteries

Signal/warning horn

#### **Engine**

Automatic engine speed control

Automatic starting aid

Cat C6.6 with ACERT Technology

EU Stage IIIA compliant

Fuel/water separator with level indicator

#### **Hydraulics**

Heavy lift mode

Load-sensing Plus hydraulic system

Manual work modes (economy, power)

Separate swing pump

Stick regeneration circuit

#### **Operator Station**

ROPS cab structure compliant with 2006/42/EC and tested according

to ISO 12117-2:2008

Adjustable armrests

Air conditioner, heater and defroster with automatic climate control

Ash tray with cigarette lighter (24 volt)

Beverage cup/can holder

Bolt-on FOGS capability

Bottle holder

Bottom mounted parallel wiping system that covers the upper and lower

windshield glass

Camera mounted on counterweight displays

through cab monitor

Coat hook

Floor mat, washable, with storage

compartment

Fully adjustable suspension seat

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

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

Positive filtered ventilation

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

Heavy-duty axles, advanced travel motor,

adjustable braking force

Oscillating front axle with remote greasing

Tires, 11.00-20 16 PR, dual

Tool box in undercarriage

Second tool box for undercarriage

Two-piece drive shaft

#### Other Equipment

Automatic swing brake

Counterweight, 3900 kg

Mirrors, frame and cab

Product Link ready

Tool box in upperframe, lockable

## **M322D Wheel Excavator Optional Equipment**

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

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

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

Single action

One-way, high pressure circuit, for hammering application

Medium pressure

Basic control circuits:

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

Cat BIO HYDO Advanced HEES™ biodegradable hydraulic oil

Generator with valve and priority function Lowering control devices for boom and stick

 $SmartBoom^{TM}$ 

#### **Front Linkage**

Booms

One-piece boom, 5650 mm VA boom (two piece), 5440 mm Bucket linkage with diverter valve Sticks

2200, 2500, 2900 mm

#### **Electrical**

Back-up alarm with three selectable modes Heavy-duty maintenance free batteries Refueling pump

#### **Operator Station**

Adjustable hydraulic sensitivity CD/MP3 Radio (12V) at rear location including speakers and 12V converter Falling objects guard Joystick steering

- 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 70/30 split, openable

#### **Undercarriage**

Dozer blade, rear mounted Outriggers, front and/or rear mounted Spacer rings for tires

#### **Other Equipment**

Auto-lube system
(implements and swing gear)
Cat Machine Security System
Cat Product Link
Counterweight, 4400 or 5400 kg
Mirrors heated, frame and cab
Ride Control
Tires (see pg.15)
Waste Handling Package

#### **M322D Wheel Excavator**

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

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

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