### Engine

- **Engine Model**: Caterpillar® C7.1 ACERT™ Technology
- **Emission Standards**: U.S. EPA Tier 3/EU Stage IIIA equivalent emission standards and China III Nonroad emission standards
- **Net Power (Maximum) ISO 9249 at 1,800 rpm**: 124 kW (169 hp)
- **Net Power (Maximum) ISO 14396 at 2,000 rpm (gross)**: 128.8 kW (173 hp)

### Weights

- **Operating Weight**: 19,000 to 19,800 kg

### Bucket Specifications

- **Bucket Capacities**: 0.35 to 1.18 m³

### Working Ranges

- **Maximum Reach at Ground Level**: 9,450 mm
- **Maximum Digging Depth**: 6,200 mm

### Drive

- **Maximum Travel Speed**: 37 km/h
Features

Performance
Provides fast cycle times, great lift capacity and high bucket and stick forces. The new engine offers great power and reliability, while optimizing your fuel consumption. This combination maximizes your productivity in any job to maximize your profits.

Serviceability
For increased safety and reduced downtime, all daily maintenance points are accessible from ground level. Centralized greasing systems allow quicker lubrication of several critical points.

Operator Comfort
The operator station maximizes comfort while increasing safety. The available air-suspension seat with heated/cooled cushions improves operator comfort. Safety is enhanced by various integrated features like the color monitor displaying the view from the standard rear-mounted camera.

Versatility
Various undercarriage and front linkage possibilities. See the machine overall performance in different applications, make the most of it thanks to the available optional features and Cat attachments and you’ll get the right machine just for your applications’ needs.

Contents
Responsible Design ............................................4
Engine ..................................................................5
Premium Comfort ..............................................6
Simplicity and Functionality .................................7
Undercarriage ....................................................8
Hydraulics .........................................................9
Booms and Sticks ..............................................10
Smart Technologies ...........................................11
Attachments .....................................................12
Safety ..............................................................14
Complete Customer Care .................................14
Serviceability ..................................................15
Integrated Technologies ..................................16
Specifications ..................................................17
Standard Equipment .........................................29
Optional Equipment .......................................30
Notes .............................................................31
Fuel Efficiency and Low Exhaust Emissions
The Cat C7.1 ACERT engine meets China III Nonroad emission standards, and meets Tier 3/Stage IIIA equivalent emission standards, while offering optimum performance, high fuel efficiency and reliability. This means more work done in a day, low operating cost and minimal impact on our environment.

Quiet Operation
Low sound levels, as a result of the variable on-demand fan speed and remote cooling system.

Technologies and Longer Service Intervals
Product Link™ allows remote monitoring of the machine and helps improve your fleet efficiency as well as reduce your costs. Your Cat dealer can help extend service intervals, meaning fewer required fluids and disposals, all adding up to lower operating costs.

Fewer Leaks and Spills
Lubricant filters and various drains are designed to minimize spills. Cat O-Ring Face Seals, Cat XT™-6 ES hoses help prevent leaks that can reduce performance.

Cat Certified Used
This program is a key element in the range of solutions offered by Caterpillar and Cat dealers throughout the world to help customers achieve growth at the lowest cost while eliminating waste. Used equipment is inspected, guaranteed and ready for work and customers will benefit from a Caterpillar warranty.
The Power and Performance You Need

The Cat engine meets China III Nonroad emission standards and meets Tier 3/Stage IIIA equivalent emission standards. It delivers a maximum net power (Acc. ISO 14396) of 128.8 kW at a rated speed of 2,000 rpm.

On-demand Strategies for Fuel Efficiency

Smart Engines
The engine is electronically controlled and equipped with the Common Rail Fuel System. Smart engines automatically operate at the most efficient operating point depending on the application, to save fuel with no impact on performance.

Demand Fan Cooling System
The electronically controlled hydraulic motor drives a variable speed on-demand fan, resulting in optimized fuel consumption.

One-Touch Low Idle and Automatic Engine Speed Control
The Automatic Engine Speed Control reduces engine speed if no operation is performed after a pre-set amount of time, reducing fuel consumption and sound levels. The One-Touch Low Idle Control allows you to instantly reduce the engine speed with one touch.

Eco and Work Modes
• The Eco Mode can reduce significantly your fuel consumption while preserving productivity results for most applications
• The Travel Mode optimizes driveline performance while preserving fuel
• The Power Mode is the best compromise between productivity and fuel efficiency for heavy load applications.
Premium Comfort
Keeps Operators Productive All Shift Long

Comfortable Seat Options
Both standard and comfort seat options give your operators all the comfort they need for a long day of work. The comfort seat is equipped with a passive seat climate control, air suspension with automatic adjustment to the operator’s weight, lumbar support and a seat heater.

Low Vibration/Sound Levels
The rubber-mounted cab includes thick steel tubing. Associated with the comfortable air-suspended seat, it helps reduce vibrations and sound levels.

Comfortable Operation
Two-way pedals for travel and auxiliary circuits provide increased floor space, reducing the need to change positions. The steering column is easily tiltable thanks to a large pedal at its base.

Automatic Climate Control
Easy adjustment of the cab temperature with filtered ventilation to make your operators comfortable in all climates.

Storage Compartments
A large compartment behind the seat provides sufficient room to store a large lunch box or a hard hat. A cover secures the contents during machine operation. Several other dedicated areas can hold large mugs, MP3 players or a cell phone.

Power Supply and MP3 Radio
The cab includes a 12V-7A power supply socket for charging electronic devices such as MP3 players, laptops and cell phones. A CD/MP3 radio is available.
Simplicity and Functionality
For Ease of Operation

Ergonomic Layout and Smart Controls
The operator station is designed for simplicity, functionality and ease of operation. Frequently used switches are centralized on the right-hand switch console. Features like the heavy lift mode, ride control* or SmartBoom™ will not only increase your productivity but also help reduce fatigue for your operators.

Large Color Monitor
Easy to read and in local language, you can rely on the high-resolution LCD monitor, which will keep you aware of any important information. “Quick Access” buttons allow a quick selection of favorite functions. The tool select function lets you preset up to ten different hydraulic attachments for quick tool changes.

Optimized Visibility
All glass is affixed directly to the cab, eliminating the use of window frames. The 70/30 split front windshield stores the upper portion above the operator and is easy to release. A large skylight provides upward visibility and includes a retractable sunscreen. The parallel wiper system covers the entire front windshield.

Standard Rearview Camera
Together with the best in class visibility to all sides, the rear view displayed on the monitor helps ensure a safe operation.

*Not available in all territories like Africa, Middle East and Eurasia. Please contact your Cat dealer for details.
Undercarriage  
Strength and Versatility on Wheels

High Travel Speed (Maximum 37 km/h)  
Reduces travel time between sites.

Stabilizers and Dozer Blade – Versatile Solutions to Do It All.  
Various undercarriage configurations are available to provide the best solution for your work environment including dozer blades and/or outriggers. Outriggers can be individually controlled to horizontally stabilize the machine even on slight slopes.

Smart Travel Alarm (Adjustable)  
The alarm sounds when the machine starts moving. The Auto Mode stops the alarm when it has been sounding for an uninterrupted 10-second interval. It can also be disabled (optional).

Heavy Duty Axles  
Rigidity and long life with effective transmission protection and heavy-duty axles. The transmission is mounted directly on the rear axle for protection and optimum ground clearance. The front axle offers wide oscillating and steering angles.

Advanced Disc Brake System  
Minimizes the rocking effect when working free on wheels. The disc brake system acts directly on the hub instead of the drive shaft to avoid planetary gear backlash. The axle design lowers life costs. Oil change intervals can be up to 2,000 working hours depending on the machine usage.
Dedicated Swing Pump  
This closed hydraulic circuit being dedicated to the swing only maximizes swing performance without reducing power to the other hydraulic functions, resulting in smoother combined movements.

Proportional Auxiliary Hydraulics, Tremendous Versatility  
The versatility of the hydraulic system can be expanded to utilize a wide variety of hydraulic work tools. Basic controls include (optional):
- The Multi-Combined Valve allows the operator to select up to ten preset work tools from the monitor.
- A medium pressure function providing proportional flow, ideal for tilting buckets or rotating tools
- A hammer circuit (one-way high pressure)
- A dedicated circuit to operate hydraulic quick couplers.

Heavy Lift Mode  
Maximizes your lifting performance by boosting the lifting capacity of the machine up to 7%.

Adjustable Swing Aggressiveness  
Allows you to adjust the aggressiveness of the machine swing to match the operator’s preferences.

Stick Regeneration Circuit  
Increases efficiency and helps enhance controllability for higher productivity.
Booms and Sticks
Maximum Flexibility – High Productivity

Rugged Performance
Booms and sticks are welded, box section structures with thick, multiplate fabrications in high stress areas for the tough work you do.

Flexibility
The choice of various booms and sticks provides the right balance of reach and digging forces for all applications.

Sticks
• Medium stick (2500 mm) for greater crowd force and lift capacity
• Long stick (2800 mm) for greater depth and reach

Booms
• Variable Adjustable (VA) – improved right side visibility and roading balance. When working in tight quarters or lifting heavy loads, the VA boom offers the best flexibility.
• 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.
**Smart Technologies**

**Boosting Up Productivity**

---

**SmartBoom***
Reduces stress and vibration.

**Rock Scraping**
Scrapering rock and finishing tasks are easy and fast. SmartBoom simplifies the task and allows more focus on stick and bucket, while the 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.

*Not available in all territories like Africa, Middle East and Eurasia. Please contact your Cat dealer for details.

---

**Ride Control***
Fast travel speed with more comfort.

The ride control system lets you travel faster over rough terrain with improved ride quality for the operator. Accumulators are acting as shock absorbers to dampen the front part motion. It can be activated through a button located on the soft switch panel in the cab.

*Not available in all territories like Africa, Middle East and Eurasia. Please contact your Cat dealer for details.
Attachments
Optimize Your Performance

Save Time with Every Tool Change

Perform tool changes in seconds ... Combine a quick coupler with common attachments that can be shared between the same size machines and you’ll get flexibility on every job. The hydraulic quick coupler automates tool exchange, so operators can change work tools quickly, from the safety and comfort of their cabs. Make your operators more efficient and productive.
Power Match
Match your Cat hydraulic work tools to your Cat machine, and get the most out of the standard, built-in software. Work tool changes have never been easier!

Get the Most from Your Machine
If you have multiple tasks to get done in a typical work day, the M320D2 can help. Highly versatile, you can easily expand all the possibilities it offers by utilizing any of the variety of Cat attachments.

Change Jobs Quickly
A quick coupler brings the ability to quickly change attachments, and increase your flexibility. Operators will be encouraged to use the right tool for the job and fewer machines will be needed.

Dig, Load and Landscape
A wide range of buckets offers solutions for digging, excavating, trenching, loading and finishing. Ditch Cleaning buckets are suitable for grading and finishing in landscaping applications or for loading loose material that is stockpiled, where teeth would damage the surface.

Sort and Handle Material
With increasing environmental regulations, you need efficient ways to deal with waste. Save on transportation, manpower and dumping costs with Cat grapples by sorting debris at source and trucking it separately. And when you need good penetration, you can count on Cat digging grapples.

Build, Compact and Maintain Roads
Whether you do finish grading with leveling buckets, ditch cleaning, sewer and water, or compaction, the machine in combination with the appropriate work tool will do the job quickly.

Attachment availability varies depending on territories. Contact your Cat dealer to learn more about the specific attachment choices available in your region.
Safety
Make Sure You’re Safe

1. FOPS Certified cab
2. Falling objects guards “bolt-on” compatibility (optional guards)
3. Anti-drift devices for booms, sticks and buckets
4. Sound proofing
5. Ground level maintenance
6. Punched, anti-slippery walking surfaces
7. Three points of contact ingress
8. LED rear road lighting
9. Excellent visibility
10. Standard rearview camera
11. Adjustable travel alarm
12. Emergency shut-off switch
13. Battery disconnect switch
14. Swing mechanical lock
15. Rotating beacon (optional)
16. Emergency hammer and exit

Complete Customer Care
Your Cat Dealer Will Support You Like No Other

From helping you to choose the right machine to knowledgeable on-going support, Cat dealers provide the best-in-sales and services.

- **Best long-term investment** with financing options and services
- **Productive operation** with training programs
- **Preventive maintenance** and guaranteed maintenance contracts
- **Uptime**, with best-in-class parts availability
- **Repair, rebuild, or replace?** Your dealer can help evaluate the best option.
Extended Service Intervals to Reduce Costs

- **S·O·S™ Oil Sampling Analysis** – Enhances performance and durability. This system can predict potential failures and can extend hydraulic oil change intervals up to 6,000 hours.
- **Engine Oil (low ash oil)** – Cat engine oil is more cost effective and provides industry-leading performance. Engine oil change interval can be extended up to 500 hours.
- **Capsule Filter** – The hydraulic return filter prevents from contamination when the hydraulic oil is changed.
- **Fuel Filters and Water Separator** – The new filtration system is suited for challenging work conditions, even when using poor fuel quality. The new primary filter offers increased filtration capabilities and works in conjunction with a water separator. Fuel filters are designed to last up to 500 hours (250 hours with very poor fuel quality). The primary fuel filter includes a fuel priming pump, a water level switch and a visual restriction indicator.
- **Remote Greasing** – Centralized or grouped points for hard to reach and critical locations.

Easy Ground Level Maintenance

Our excavators are designed with the operator and technician in mind. Door opening is assisted with gaz springs.

- **Front Compartment** – Ground level access to the batteries, air-to-air aftercooler, air conditioner condenser and the air cleaner filter.
- **Swing-out Air Conditioner Condenser** allows cleaning on both sides and access to the air-to-air aftercooler.
- **Engine Compartment** – The longitudinal layout ensures accessibility from ground level.
Cat Connect makes smart use of technology and services to improve your job site efficiency. Using the data from technology-equipped machines, you’ll get more information and insight into your equipment and operations than ever before.

Cat Connect technologies offer improvements in these key areas:

- **Equipment Management** – increase uptime and reduce operating costs.
- **Productivity** – monitor production and manage job site efficiency.
- **Safety** – enhance job site awareness to keep your people and equipment safe.

Featured Cat Connect technologies include the following:

**Link**

Link technologies provide wireless capability to machines to enable two-way transfer of information collected by on-board sensors, control modules, and other Cat Connect technologies.

**Manage Your Machine Remotely**

Cat Product Link is a system that is deeply integrated into the machine monitoring system to take the guesswork out of managing your equipment. The system tracks location, hours, fuel usage, productivity, idle time, and diagnostic codes and shares it with you through VisionLink® to help you maximize efficiency, improve productivity, and lower operating costs.
# M320D2 Wheeled Excavator Specifications

## Engine

<table>
<thead>
<tr>
<th>Engine Model</th>
<th>Cat C7.1 ACERT Technology&lt;sup&gt;(1)&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ratings</td>
<td>2,000 rpm</td>
</tr>
</tbody>
</table>

- **Engine Gross Power (maximum)**
  - ISO 14396: 128.8 kW (173 hp)
  - ISO 14396 (metric): 175 hp
- **Net Power (Rated)<sup>(2)</sup>**
  - ISO 9249/SAE J1349: 123.5 kW (166 hp)
  - ISO 9249/SAE J1349 (metric): 168 hp
- **80/1269/EEC**: 123.5 kW (166 hp)

- **Net Power (Maximum)**
  - ISO 9249/SAE J1349: 123.5 kW (166 hp)
  - ISO 9249/SAE J1349 (metric): 168 hp

- **Bore**: 105 mm
- **Stroke**: 135 mm
- **Displacement**: 7.01 L
- **Maximum Torque at 1,400 rpm**: 862 N·m
- **Number of Cylinders**: 6

<sup>(1)</sup> Meets China III Nonroad emission standards and meets Tier 3/Stage IIIA equivalent emission standards.

<sup>(2)</sup> Rated speed 2,000 rpm. Constant power from 1,400-2,000 rpm.

- Net power advertised is the power available at the flywheel when engine is equipped with air cleaner, alternator, and cooling fan running at intermediate speed.
- No deratings required up to 3000 m altitude. Automatic derating occurs after 3000 m.

## Transmission

<table>
<thead>
<tr>
<th>Forward/Reverse</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Gear</td>
<td>8 km/h</td>
<td></td>
</tr>
<tr>
<td>2nd Gear</td>
<td>37 km/h</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Creeper Speed</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Gear</td>
<td>3 km/h</td>
<td></td>
</tr>
<tr>
<td>2nd Gear</td>
<td>13 km/h</td>
<td></td>
</tr>
</tbody>
</table>

- **Drawbar Pull**: 99 kN
- **Maximum Gradeability**: 60%

## Undercarriage

<table>
<thead>
<tr>
<th>Ground Clearance</th>
<th>370 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Steering Angle</td>
<td>35°</td>
</tr>
<tr>
<td>Oscillation Axle Angle</td>
<td>28.5°</td>
</tr>
<tr>
<td>Minimum Turning Radius</td>
<td></td>
</tr>
<tr>
<td>Standard Axle</td>
<td></td>
</tr>
<tr>
<td>Outside of Tire</td>
<td>6400 mm</td>
</tr>
<tr>
<td>End of VA Boom</td>
<td>7000 mm</td>
</tr>
<tr>
<td>End of One-Piece Boom</td>
<td>8300 mm</td>
</tr>
</tbody>
</table>

## Service Refill Capacities

<table>
<thead>
<tr>
<th>Fuel Tank (total capacity)</th>
<th>385 L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling System</td>
<td>36.5 L</td>
</tr>
<tr>
<td>Engine Crankcase</td>
<td>18.5 L</td>
</tr>
<tr>
<td>Rear Axle Housing (differential)</td>
<td>14 L</td>
</tr>
<tr>
<td>Front Steering Axle (differential)</td>
<td>10.5 L</td>
</tr>
<tr>
<td>Final Drive</td>
<td>2.5 L</td>
</tr>
<tr>
<td>Powershift Transmission</td>
<td>2.5 L</td>
</tr>
</tbody>
</table>

## Weights

- **Operating Weights**<sup>*</sup>: 19 000 kg-19 800 kg

## VA Boom

- **Front Dozer, Rear Outriggers**: 19 800 kg

## One-Piece Boom

- **Front Dozer, Rear Outriggers**: 19 300 kg

## Sticks**

- **Medium (2500 mm)**: 930 kg
- **Long (2800 mm)**: 970 kg

## Counterweight

- **Standard**: 4000 kg

<sup>*</sup> Operating weight includes medium stick, 4000 kg counterweight, full fuel tank, operator, 245 kg quick coupler, 695 kg bucket and dual pneumatic tires. Weight varies depending on configuration.

<sup>**</sup> Includes cylinder, bucket linkage, pins and standard hydraulic lines.
# M320D2 Wheeled Excavator Specifications

## Hydraulic System

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tank Capacity</td>
<td>170 L</td>
</tr>
<tr>
<td>System</td>
<td>270 L</td>
</tr>
<tr>
<td>Maximum Pressure</td>
<td></td>
</tr>
<tr>
<td>Implement Circuit</td>
<td></td>
</tr>
<tr>
<td>Normal</td>
<td>350 bar (35 000 kPa)</td>
</tr>
<tr>
<td>Heavy Lift</td>
<td>370 bar (37 000 kPa)</td>
</tr>
<tr>
<td>Travel Circuit</td>
<td>350 bar (35 000 kPa)</td>
</tr>
<tr>
<td>Auxiliary Circuit</td>
<td></td>
</tr>
<tr>
<td>High Pressure</td>
<td>350 bar (35 000 kPa)</td>
</tr>
<tr>
<td>Medium Pressure</td>
<td>185 bar (18 500 kPa)</td>
</tr>
<tr>
<td>Swing Mechanism</td>
<td>310 bar (31 000 kPa)</td>
</tr>
<tr>
<td>Maximum Flow</td>
<td></td>
</tr>
<tr>
<td>Implement/Travel Circuit</td>
<td>280 L/min</td>
</tr>
<tr>
<td>Auxiliary Circuit</td>
<td></td>
</tr>
<tr>
<td>High Pressure</td>
<td>250 L/min</td>
</tr>
<tr>
<td>Medium Pressure</td>
<td>49 L/min</td>
</tr>
<tr>
<td>Swing Mechanism</td>
<td>112 L/min</td>
</tr>
</tbody>
</table>

## Tires

<table>
<thead>
<tr>
<th>Type</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>10.00-20 (Dual Pneumatic)</td>
</tr>
</tbody>
</table>

## Blade

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blade Type</td>
<td>Parallel</td>
</tr>
<tr>
<td>Blade Roll-Over Height</td>
<td>576 mm</td>
</tr>
<tr>
<td>Width</td>
<td>2550 mm</td>
</tr>
</tbody>
</table>

## Sustainability

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Emissions</td>
<td>Meets China III Nonroad</td>
</tr>
<tr>
<td></td>
<td>Meets Tier 3/Stage IIIA equivalent</td>
</tr>
<tr>
<td>Fluids (Optional)</td>
<td>Meets EN14214 or ASTM D6751 with EN590</td>
</tr>
<tr>
<td></td>
<td>or ASTM D975 Standard</td>
</tr>
<tr>
<td></td>
<td>Mineral diesel fuels</td>
</tr>
</tbody>
</table>

## Vibration Levels

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Hand/Arm</td>
<td>ISO 5349:2001 &lt;2.5 m/s²</td>
</tr>
<tr>
<td></td>
<td>ISO/TR 25398:2006 &lt;0.5 m/s²</td>
</tr>
<tr>
<td>Seat Transmissibility Factor</td>
<td>ISO 7096:2000-spectral class EM5 &lt;0.7 m/s²</td>
</tr>
</tbody>
</table>

## Standards

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cab/ROPS*</td>
<td>ROPS (Rollover Protective Structure) cab offered by Caterpillar meets ROPS criteria ISO 12117-2:2008</td>
</tr>
<tr>
<td>Cab/FOPS</td>
<td>Cab with FOPS (Falling Object Protective Structure) meets FOPS criteria ISO 10262:1998 and SAE J1356:2008</td>
</tr>
<tr>
<td>Cab/Sound Levels</td>
<td>Meets appropriate standards as listed below</td>
</tr>
</tbody>
</table>

*Not available in all markets. Available only for Africa, Middle East and Eurasia. Please contact your Cat dealer for details.

## Sound Performance

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator Sound</td>
<td>74 dB(A)</td>
</tr>
<tr>
<td>Spectator Sound</td>
<td>103 dB(A)</td>
</tr>
</tbody>
</table>

- Operator Sound – The operator sound level is measured according to the procedures specified in 2000/14/EC, for a cab offered by Caterpillar, when properly installed and maintained and tested with the door and windows closed.
- Exterior Sound – The labeled spectator sound power level is measured according to the test procedures and conditions specified in 2000/14/EC.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained for doors/windows open) for extended periods or in noisy environment(s).
M320D2 Wheeled Excavator Specifications

**Dimensions**

All dimensions are approximate.

<table>
<thead>
<tr>
<th>Boom Type</th>
<th>Variable Adjustable Boom</th>
<th>One-Piece Boom</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stick Length</td>
<td>mm 2500 2800</td>
<td>mm 2500 2800</td>
</tr>
<tr>
<td>1 Shipping Height with Guard Falling Object (highest point between boom and cab)</td>
<td>mm 3300 3300</td>
<td>mm 3300 3300</td>
</tr>
<tr>
<td>2 Shipping Length</td>
<td>mm 8850 8820</td>
<td>mm 8960 8950</td>
</tr>
<tr>
<td>3 Support Point</td>
<td>mm 3650 3510</td>
<td>mm 3640 3500</td>
</tr>
<tr>
<td>4 Tail Swing Radius</td>
<td>mm 2565</td>
<td>mm 2565</td>
</tr>
<tr>
<td>5 Counterweight Clearance</td>
<td>mm 1280</td>
<td>mm 1280</td>
</tr>
<tr>
<td>6 Cab Height – No Guard Falling Object</td>
<td>mm 3170</td>
<td>mm 3170</td>
</tr>
<tr>
<td>With Guard Falling Object</td>
<td>mm 3300</td>
<td>mm 3300</td>
</tr>
<tr>
<td>Overall Machine Width</td>
<td>mm 2550</td>
<td>mm 2550</td>
</tr>
</tbody>
</table>

**Maximum tire clearance with outrigger fully down**

Roading position with 2500 mm stick

Undercarriage with 1 set of outriggers and dozer
M320D2 Wheeled Excavator Specifications

Working Ranges

<table>
<thead>
<tr>
<th>Boom Type</th>
<th>Variable Adjustable Boom</th>
<th>One-Piece Boom</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5260 mm</td>
<td>5350 mm</td>
</tr>
<tr>
<td><strong>Stick Length</strong></td>
<td>mm</td>
<td>2500</td>
</tr>
<tr>
<td>1 Digging Height</td>
<td>mm</td>
<td>9950</td>
</tr>
<tr>
<td>2 Dump Height</td>
<td>mm</td>
<td>6970</td>
</tr>
<tr>
<td>3 Digging Depth</td>
<td>mm</td>
<td>6035</td>
</tr>
<tr>
<td>4 Vertical Wall Digging Depth</td>
<td>mm</td>
<td>4230</td>
</tr>
<tr>
<td>5 Depth 2.5 m Straight Clean-Up</td>
<td>mm</td>
<td>5930</td>
</tr>
<tr>
<td>6 Reach</td>
<td>mm</td>
<td>9450</td>
</tr>
<tr>
<td>7 Reach at Ground Level</td>
<td>mm</td>
<td>9270</td>
</tr>
<tr>
<td>Bucket Forces (ISO 6015)</td>
<td>kN</td>
<td>136</td>
</tr>
<tr>
<td>Stick Forces (ISO 6015)</td>
<td>kN</td>
<td>95</td>
</tr>
</tbody>
</table>

Values 1-7 are calculated with bucket (1200GD-CW30) (0.91 m³) with TIP GP-GEN DUTY (K80) and CW-30 quick coupler with a tip radius of 1535 mm.

Bucket and stick force values are calculated with heavy lift on (no quick coupler) and a tip radius of 1298 mm.
## Bucket Specifications and Compatibility

Contact your Cat dealer for special bucket requirements.

<table>
<thead>
<tr>
<th>Without Quick Coupler</th>
<th>Variable Adjustable Boom</th>
<th>One-Piece Boom</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2500 mm</td>
<td>2800 mm</td>
</tr>
<tr>
<td><strong>Stick Length</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>mm</td>
<td>1 set of stabilizers lowered</td>
<td>1 set of stabilizers lowered</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>m³</td>
<td>kg</td>
</tr>
<tr>
<td>600</td>
<td>0.41</td>
<td>474</td>
</tr>
<tr>
<td>1200</td>
<td>1.00</td>
<td>695</td>
</tr>
<tr>
<td>1300</td>
<td>1.09</td>
<td>724</td>
</tr>
<tr>
<td>1400</td>
<td>1.18</td>
<td>756</td>
</tr>
<tr>
<td>1200</td>
<td>1.00</td>
<td>733</td>
</tr>
<tr>
<td>1300</td>
<td>1.09</td>
<td>763</td>
</tr>
<tr>
<td>2000</td>
<td>0.70</td>
<td>650</td>
</tr>
<tr>
<td>1800</td>
<td>0.48</td>
<td>819</td>
</tr>
<tr>
<td>2000</td>
<td>0.58</td>
<td>865</td>
</tr>
<tr>
<td>2300</td>
<td>0.62</td>
<td>912</td>
</tr>
</tbody>
</table>

The above loads are in compliance with hydraulic excavator standard EN474, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled. Capacity based on ISO 7451. Bucket weight with General Duty tips.

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar’s recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.
Bucket Specifications and Compatibility

Contact your Cat dealer for special bucket requirements.

<table>
<thead>
<tr>
<th>With Pin Grabber Coupler</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable Adjustable Boom</td>
</tr>
<tr>
<td>5260 mm</td>
</tr>
<tr>
<td>2500 mm</td>
</tr>
<tr>
<td>2800 mm</td>
</tr>
<tr>
<td>One-Piece Boom</td>
</tr>
<tr>
<td>5350 mm</td>
</tr>
<tr>
<td>2500 mm</td>
</tr>
<tr>
<td>2800 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Stick Length</th>
<th>Width (mm)</th>
<th>Capacity (m³)</th>
<th>Weight (kg)</th>
<th>Doozer lowered</th>
<th>1 set of stabilizers lowered</th>
<th>Fully stabilized</th>
<th>Doozer lowered</th>
<th>1 set of stabilizers lowered</th>
<th>Fully stabilized</th>
<th>Doozer lowered</th>
<th>1 set of stabilizers lowered</th>
<th>Fully stabilized</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Duty (GD)</td>
<td>600</td>
<td>0.41</td>
<td>474</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1200</td>
<td>1.00</td>
<td>695</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1300</td>
<td>1.09</td>
<td>724</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1400</td>
<td>1.18</td>
<td>756</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heavy Duty (HD)</td>
<td>1200</td>
<td>1.00</td>
<td>733</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1300</td>
<td>1.09</td>
<td>763</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ditch Cleaning (DC)</td>
<td>2000</td>
<td>0.70</td>
<td>650</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ditch Cleaning Tilt (DCT)</td>
<td>1800</td>
<td>0.48</td>
<td>819</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2000</td>
<td>0.58</td>
<td>865</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2300</td>
<td>0.62</td>
<td>912</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The above loads are in compliance with hydraulic excavator standard EN474, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451.
Bucket weight with General Duty tips.

Maximum material density 2100 kg/m³
Maximum material density 1800 kg/m³
Maximum material density 1500 kg/m³
Maximum material density 1200 kg/m³
Maximum material density 900 kg/m³
Not recommended

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar’s recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.
## Bucket Specifications and Compatibility

Contact your Cat dealer for special bucket requirements.

### General Duty (GD)

<table>
<thead>
<tr>
<th>Stick Length</th>
<th>Width (mm)</th>
<th>Capacity (m³)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>600</td>
<td>0.35</td>
<td>416</td>
<td></td>
</tr>
<tr>
<td>1200</td>
<td>0.91</td>
<td>633</td>
<td></td>
</tr>
<tr>
<td>1300</td>
<td>1.00</td>
<td>663</td>
<td></td>
</tr>
<tr>
<td>1400</td>
<td>1.09</td>
<td>693</td>
<td></td>
</tr>
</tbody>
</table>

### Heavy Duty (HD)

<table>
<thead>
<tr>
<th>Stick Length</th>
<th>Width (mm)</th>
<th>Capacity (m³)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1200</td>
<td>0.91</td>
<td>649</td>
<td></td>
</tr>
<tr>
<td>1300</td>
<td>1.00</td>
<td>681</td>
<td></td>
</tr>
<tr>
<td>1400</td>
<td>1.09</td>
<td>712</td>
<td></td>
</tr>
</tbody>
</table>

The above loads are in compliance with hydraulic excavator standard EN474, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451.

Bucket weight with General Duty tips.

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar’s recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.
## 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.

### Boom Type

#### Undercarriage

<table>
<thead>
<tr>
<th>Work Tool Type</th>
<th>Variable Adjustable Boom</th>
<th>One-Piece Boom</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5280 mm</td>
<td>5350 mm</td>
</tr>
<tr>
<td></td>
<td>4.0 mt Counterweight</td>
<td>4.0 mt Counterweight</td>
</tr>
<tr>
<td></td>
<td>(1)</td>
<td>(2)</td>
</tr>
<tr>
<td>Stick Length (mm)</td>
<td>2500 2800</td>
<td>2500 2800 2500 2800</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hydraulic Hammer</th>
<th>Work Tool Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>B20</td>
<td></td>
</tr>
<tr>
<td>H115E</td>
<td></td>
</tr>
<tr>
<td>H120E</td>
<td></td>
</tr>
<tr>
<td>H130E</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Multi-Processor</th>
<th>Work Tool Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>MP318 CC Jaw</td>
<td></td>
</tr>
<tr>
<td>MP318 D Jaw</td>
<td></td>
</tr>
<tr>
<td>MP318 P Jaw</td>
<td></td>
</tr>
<tr>
<td>MP318 U Jaw</td>
<td></td>
</tr>
<tr>
<td>MP318 S Jaw</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Crusher</th>
<th>Work Tool Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>P315</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pulverizer</th>
<th>Work Tool Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>P215</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Demolition and Sorting Grapple</th>
<th>Work Tool Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>(D-Demolition shells, R-Recycling shells)</td>
<td></td>
</tr>
<tr>
<td>G315 GC</td>
<td></td>
</tr>
<tr>
<td>G315 GC fixed CAN</td>
<td></td>
</tr>
<tr>
<td>G315B-D/R</td>
<td></td>
</tr>
<tr>
<td>G315B-D/R fixed CAN</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Scrap and Demolition Shear</th>
<th>Work Tool Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>S220B</td>
<td></td>
</tr>
<tr>
<td>S225B</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compactor Plate</th>
<th>Work Tool Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVP75</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Orange Peel Grapple (4 or 5 Tines)</th>
<th>Work Tool Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>GSH15B 400 L</td>
<td></td>
</tr>
<tr>
<td>GSH15B 500 L</td>
<td></td>
</tr>
<tr>
<td>GSH15B 600 L</td>
<td></td>
</tr>
<tr>
<td>GSH15B 800 L</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Clamshell Grapple</th>
<th>Work Tool Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>CT1V5 1000 L</td>
<td></td>
</tr>
<tr>
<td>CT1V5 1200 L</td>
<td></td>
</tr>
<tr>
<td>CT1V5 1500 L</td>
<td></td>
</tr>
<tr>
<td>CT1V5 1700 L</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pin Grabber Coupler</th>
<th>Work Tool Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>CL-QC</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dedicated Quick Coupler</th>
<th>Work Tool Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>CW-30</td>
<td></td>
</tr>
<tr>
<td>CW-30S</td>
<td></td>
</tr>
</tbody>
</table>

---

These work tools are available for the M320D2. Consult your Cat dealer for proper match.

---

(1) Dozer lowered
(2) Dozer and outrigger lowered

- Work Tool is a match
- Over the front only
- Pin-on or dedicated coupler
- Boom Mount
- Pin-on only
- Over the front only with dedicated coupler

Offerings not available in all areas. Matches are dependent on Wheeled Excavator configurations. Consult your Cat dealer to determine what is offered in your area and for proper work tool match.

fixed CAN: CW quick coupler adapter plates
## Lift Capacities – Variable Adjustable Boom

All values are in kg, bucket cylinder and bucket linkage installed, work tool: none, with counterweight (4000 kg), heavy lift on.

### Medium Stick

<table>
<thead>
<tr>
<th>Undercarriage configuration</th>
<th>3000 mm</th>
<th>4500 mm</th>
<th>6000 mm</th>
<th>7500 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>6000 mm</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rear dozer up</td>
<td><em>6250</em></td>
<td>5850</td>
<td>5100</td>
<td>4350</td>
</tr>
<tr>
<td>Dozer and stabilizer down</td>
<td><em>6250</em></td>
<td>5850</td>
<td>5100</td>
<td>4350</td>
</tr>
<tr>
<td>2 sets of stabilizers down</td>
<td><em>6250</em></td>
<td>5850</td>
<td>5100</td>
<td>4350</td>
</tr>
</tbody>
</table>

| **4500 mm**                  |         |         |         |         |
| Rear dozer up                | *7250*  | 5600    | 4850    | 4150    |
| Dozer and stabilizer down    | *7250*  | 5600    | 4850    | 4150    |
| 2 sets of stabilizers down   | *7250*  | 5600    | 4850    | 4150    |

| **3000 mm**                  |         |         |         |         |
| Rear dozer up                | 7500    | 5150    | 4450    | 3750    |
| Dozer and stabilizer down    | *8800*  | 7900    | 7200    | 6500    |
| 2 sets of stabilizers down   |         | 6750    | 6050    | 5350    |

| **1500 mm**                  |         |         |         |         |
| Rear dozer up                | 7000    | 4750    | 4050    | 3350    |
| Dozer and stabilizer down    | *10 000*| 7400    | 6700    | 6000    |
| 2 sets of stabilizers down   |         | 6750    | 6050    | 5350    |

| **0 mm**                     |         |         |         |         |
| Rear dozer up                | 6800    | 4500    | 3850    | 3150    |
| Dozer and stabilizer down    | *10 250*| 7150    | 6450    | 5750    |
| 2 sets of stabilizers down   |         | 6750    | 6050    | 5350    |

| **−1500 mm**                 |         |         |         |         |
| Rear dozer up                | *9500*  | 8400    | 7600    | 6900    |
| Dozer and stabilizer down    | *9500*  | 8400    | 7600    | 6900    |
| 2 sets of stabilizers down   | *9500*  | 8400    | 7600    | 6900    |

| **−3000 mm**                 |         |         |         |         |
| Rear dozer up                | 6800    | 4500    | 3850    | 3150    |
| Dozer and stabilizer down    | *7700*  | 7200    | 6500    | 5800    |
| 2 sets of stabilizers down   |         | *7700*  | 7200    | 6500    |

*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

All values are in kg, bucket cylinder and bucket linkage installed, work tool: none, with counterweight (4000 kg), heavy lift on.

<table>
<thead>
<tr>
<th>Long Stick 2800 mm</th>
<th>Undercarriage configuration</th>
<th>3000 mm</th>
<th>4500 mm</th>
<th>6000 mm</th>
<th>7500 mm</th>
<th>Load point height mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rear dozer up</td>
<td>5200</td>
<td>3700</td>
<td>3250</td>
<td>*2900</td>
<td>2450</td>
</tr>
<tr>
<td>6000 mm</td>
<td>Rear dozer up</td>
<td>7600</td>
<td>5250</td>
<td>4500</td>
<td>4850</td>
<td>4850</td>
</tr>
<tr>
<td></td>
<td>Dozer and stabilizer down</td>
<td>5050</td>
<td>3600</td>
<td>3150</td>
<td>3800</td>
<td>3800</td>
</tr>
<tr>
<td></td>
<td>2 sets of stabilizers down</td>
<td>*9650</td>
<td>*6650</td>
<td>*6650</td>
<td>*9650</td>
<td>*9650</td>
</tr>
<tr>
<td>4500 mm</td>
<td>Rear dozer up</td>
<td>7100</td>
<td>4800</td>
<td>4100</td>
<td>4650</td>
<td>4650</td>
</tr>
<tr>
<td></td>
<td>Dozer and stabilizer down</td>
<td>3200</td>
<td>2750</td>
<td>2300</td>
<td>3000</td>
<td>3000</td>
</tr>
<tr>
<td></td>
<td>2 sets of stabilizers down</td>
<td>7200</td>
<td>6950</td>
<td>6150</td>
<td>6250</td>
<td>6250</td>
</tr>
<tr>
<td>3000 mm</td>
<td>Rear dozer up</td>
<td>6800</td>
<td>4500</td>
<td>3850</td>
<td>4500</td>
<td>4500</td>
</tr>
<tr>
<td></td>
<td>Dozer and stabilizer down</td>
<td>7200</td>
<td>6700</td>
<td>6060</td>
<td>6060</td>
<td>6060</td>
</tr>
<tr>
<td></td>
<td>2 sets of stabilizers down</td>
<td>*10 250</td>
<td>*10 250</td>
<td>*10 250</td>
<td>*10 250</td>
<td>*10 250</td>
</tr>
<tr>
<td>1500 mm</td>
<td>Rear dozer up</td>
<td>*9050</td>
<td>8350</td>
<td>6800</td>
<td>6700</td>
<td>6700</td>
</tr>
<tr>
<td></td>
<td>Dozer and stabilizer down</td>
<td>4400</td>
<td>3750</td>
<td>3600</td>
<td>3600</td>
<td>3600</td>
</tr>
<tr>
<td></td>
<td>2 sets of stabilizers down</td>
<td>*9050</td>
<td>*9050</td>
<td>*9050</td>
<td>*9050</td>
<td>*9050</td>
</tr>
<tr>
<td>0 mm</td>
<td>Rear dozer up</td>
<td>8500</td>
<td>6950</td>
<td>6300</td>
<td>5500</td>
<td>5500</td>
</tr>
<tr>
<td></td>
<td>Dozer and stabilizer down</td>
<td>4500</td>
<td>3800</td>
<td>3650</td>
<td>3650</td>
<td>3650</td>
</tr>
<tr>
<td></td>
<td>2 sets of stabilizers down</td>
<td>4500</td>
<td>3800</td>
<td>3650</td>
<td>3650</td>
<td>3650</td>
</tr>
</tbody>
</table>

*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

All values are in kg, bucket cylinder and bucket linkage installed, work tool: none, with counterweight (4000 kg), heavy lift on.

| Medium Stick | 2500 mm |  |  |  |  |  |  |  |
|--------------|--------|---|---|---|---|---|---|
| **Load at maximum reach (stick nose/bucket pin)** | **Load over front** | **Load over rear** | **Load over side** | **Load point height** |
| **Undercarriage configuration** | **3000 mm** | **4500 mm** | **6000 mm** | **7500 mm** |
| 6000 mm | Rear dozer up | 5050 | 3650 | 3200 | *3450 | 3000 | 2650 |
| | 2 sets of stabilizers down | *5550 | *5550 | *5550 | 3000 | 2650 | 6600 |
| 4500 mm | Rear dozer up | 4950 | 3550 | 3100 | *3350 | 2500 | 2150 |
| | 2 sets of stabilizers down | *6000 | *6000 | *6000 | *3350 | *3350 | *3350 |
| 3000 mm | Rear dozer up | 7400 | 5100 | 4600 | 3400 | 2400 | 2100 |
| | 2 sets of stabilizers down | *8700 | 7800 | 6850 | 5000 | 4100 | 3450 |
| 1500 mm | Rear dozer up | 7000 | 4750 | 4050 | 3300 | 2700 | 2200 |
| | 2 sets of stabilizers down | *10 000 | 7250 | 7200 | 4800 | 5100 | 3950 |
| 0 mm | Rear dozer up | 6750 | 4500 | 3850 | 3200 | 2500 | 2100 |
| | 2 sets of stabilizers down | *10 350 | 7150 | 7050 | 4700 | 5050 | 3950 |
| –1500 mm | Rear dozer up | *9400 | 8450 | 6950 | 4650 | | |
| | 2 sets of stabilizers down | *9400 | *9400 | 9750 | 7100 | | |
| –3000 mm | Rear dozer up | *11 000 | 8500 | 7100 | 4650 | | |
| | 2 sets of stabilizers down | *11 000 | *11 000 | *9800 | 7150 | | |

*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.
# Lift Capacities – One-Piece Boom

All values are in kg, bucket cylinder and bucket linkage installed, work tool: none, with counterweight (4000 kg), heavy lift on.

<table>
<thead>
<tr>
<th>Long Stick 2800 mm</th>
<th>3000 mm</th>
<th>4500 mm</th>
<th>6000 mm</th>
<th>7500 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Undercarriage configuration</strong></td>
<td><strong>Load at maximum reach (stick nose/bucket pin)</strong></td>
<td><strong>Load over front</strong></td>
<td><strong>Load over rear</strong></td>
<td><strong>Load over side</strong></td>
</tr>
<tr>
<td>6000 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rear dozer up</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dozer and stabilizer down</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 sets of stabilizers down</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4500 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rear dozer up</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dozer and stabilizer down</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 sets of stabilizers down</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3000 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rear dozer up</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dozer and stabilizer down</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 sets of stabilizers down</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1500 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rear dozer up</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dozer and stabilizer down</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 sets of stabilizers down</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rear dozer up</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dozer and stabilizer down</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 sets of stabilizers down</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>–1500 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rear dozer up</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dozer and stabilizer down</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 sets of stabilizers down</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>–3000 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rear dozer up</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dozer and stabilizer down</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 sets of stabilizers down</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>–4500 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rear dozer up</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dozer and stabilizer down</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 sets of stabilizers down</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*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.
Standard Equipment

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

ELECTRICAL
• Alternator, 75 ampere
• Lights
  – Halogen working lights
  • Cab mounted: two front, one rear
• Boom
  – Roading lights
  • Halogen front lights
  • LED rear lights
  – Halogen interior light
• Main shut-off switch
• Two Cat maintenance free heavy-duty batteries
• Signal/warning horn

ENGINE
• Cat C7.1 ACERT meets China III Nonroad emission standards and meets Tier 3/Stage IIIA equivalent emission standards
• Automatic engine speed control, including one touch low idle
• Automatic starting aid
• Power mode selector (Eco and standard)
• Altitude capability: 3000 m
• Fuel/water separator with level indicator, fuel priming pump, water level switch and a visual restriction indicator

HYDRAULICS
• Cat XT-6 ES hoses
• Adjustable hydraulic sensitivity
• Oil cooler
• Anti-drift valve for bucket cylinder
• Hydraulic mineral oil, Cat HYDÒ™ Advanced 10 oil
• Heavy lift mode
• Load-sensing hydraulic system
• Separate swing pump
• Stick regeneration circuit

OPERATOR STATION
• Reinforced cab structure compliant with 2006/42/EC (tested according to ISO 12117-2:2008)*
• Washer bottle for wipers
• Interior lighting
• Joysticks, pilot operated
• Literature compartment behind the seat
• Mounting provisions for radio and speakers
• Adjustable armrests
• Air conditioner, heater and defroster with automatic climate control
• Ash tray with cigarette lighter (24 volt)
• Beverage cup/can holder
• Bolt-on guards capability
• Bottle holder
• Bottom mounted, intermittent, 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
• Instrument panel and gauges, with full color monitor display:
  – 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 holder in right hand cab panel
• Mobile phone holder
• Parking brake
• Positive filtered ventilation, variable speed
• Power supply, 12V-7A
• Rear window, emergency exit
• Retractable seat belt, 51 mm
• Skylight
• Sliding door windows
• Steering column, tiltable
• Storage area suitable for a lunch box
• Sunshade for windshield and skylight
• Travel speed lock

*Not available in all markets. Available only for Africa, Middle East and Eurasia. Please contact your Cat dealer for details.

UNDERCARRIAGE
• Hydrostatic transmission, two speeds
• Creeper speed
• Full hydraulic steering with emergency capability
• Four wheel drive
• Two-piece drive shaft
• Heavy Duty axles, with advanced disc brake system and travel motor with adjustable breaking force
• Oscillating front axle, lockable, with remote greasing point
• Steps, wide, left and right
• Toolbox, left and right

OTHER EQUIPMENT
• Automatic swing brake
• Counterweight, 4000 kg
• Mirrors, frame and cab
• Cat Product Link
• Capability to add other auxiliary hydraulic circuits
• Caterpillar Datalink and Electronic Technician capability
• Door locks and cab locks with Caterpillar one-key security system
• S-O-S quick sampling valves for engine oil, hydraulic oil and coolant
M320D2 Optional Equipment

Optional Equipment

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

AUXILIARY CONTROLS AND LINES
• Auxiliary boom and stick lines
• Basic control circuits:
  – Medium pressure
  – Two-way, medium pressure circuit, for rotating or tilting of work tools
  – Tool control/multi function
• One/two-way high pressure for hammer application or opening and closing of a work tool
• Programmable flow and pressure for up to 10 work tools – selection via monitor
• Quick coupler control
• Pattern changer

FRONT LINKAGE
• Booms
  – One-piece boom, 5350 mm
  – VA boom (two piece), 5260 mm
• Bucket linkage with diverter valve**
• Sticks
  – 2500, 2800 mm

HYDRAULICS
• Overload warning device**
• Boom and stick lowering control devices**

**Standard for Africa, Middle East and Eurasia

ELECTRICAL
• Travel alarm with or without three selectable modes
• Refueling pump
• Lights
  – Rotating beacon on cab

OPERATOR STATION
• Front and top guards
• CD/MP3 Radio (12V) at rear location including speakers and 12V converter
• Windshield
  – One piece
  – 70/30 split, openable, with visor for rain protection
• Seats
  – Vertical mechanical suspension with manual weight adjustment and mechanical lumbar support
  – Vertical air suspension, horizontal suspension, automatic weight adjustment, mechanical lumbar support, passive climate system, seat cushion length and angle adjustment and a seat heater
• Auxiliary high pressure pedal

UNDERCARRIAGE
• Undercarriages:
  – Blade front/outriggers rear
  – Outriggers front/blade rear
  – Outriggers front and rear*
• Tires:
  – Pneumatic 10.00-20 dual
  – Solid rubber 10.00-20 dual*
  – Spacer rings for tires
  – Fenders*
*Not available in all markets. Please contact your Cat dealer for details.

OTHER EQUIPMENT
• Cat Machine Security System (MSS)
• Uppercarriage access steps with integrated tool box
• Cab protecting guards, front and top