



# M315 GC

## Wheeled Excavator

***The Cat® M315 GC Wheeled Excavator increases your efficiency and productivity with more comfort in the cab and easy-to-use controls helping you get more work done every day. Reduced maintenance costs combined with lower fuel consumption put money back in your pocket.***

### **Fuel Saving Performance Matched To The Job**

- Use up to 10% less fuel than the M315D2 to keep you moving and productive on the jobsite.
- Increased engine speed to achieve high travel and operating performance.
- Reduced fuel consumption and lower noise to help in various work environments.
- Cat® C4.4 engine meets China Nonroad Stage IV emission standards.
- Product Link™ comes standard and can be used to monitor machine health, location, and safety.
- The advanced hydraulic system provides the optimum balance of power and efficiency while providing the control needed for precise digging requirements.
- Auxiliary hydraulic options give you the versatility to use a wide range of Cat attachments.
- Don't let the temperature stop you from working. The wheeled excavator has a standard high-ambient temperature capability of 52°C (125°F).

### **Lower Maintenance Costs**

- Expect up to 15% less maintenance costs than the M315D2.
- Quickly check and service your machine with daily maintenance points accessible from ground level.
- The new hydraulic oil filter provides improved filtration performance, anti-drain valves to keep oil clean when the filter is replaced, and longer life with a 2,000-hour replacement interval.
- Extended greasing intervals and grouped grease points mean less downtime and more work getting done.
- Scheduled Oil Sampling (S-O-S<sup>SM</sup>) ports are located at ground level, simplifying maintenance, and allowing for quick, easy extraction of fluid samples for analysis.
- Built on a long legacy of high performance and highly reliable wheeled excavators, our machine components are designed and manufactured to Caterpillar quality standards.



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## Work In Comfort In The All-New Cab

- Increase operator productivity with an all-new, larger cab.
- Improved seat offering increased comfort and reduced operator fatigue.
- Get in and out of the cab easier using the tilt-up left console and straight access from the ground.
- Conveniently located storage for lunch box, documents, and mobile phones helping to keep the operator comfortable during the work day.
- Bluetooth® radio allows for seamless mobile phone connection to listen to music and podcasts and for hands-free calling.
- Easily adjust to your ideal temperature with the touchscreen monitor.

## Simple To Operate

- Start up the machine easily with the push-to-start button.
- Operate the wheeled excavator comfortably with easy-to-reach and intuitive controls.
- Navigate quickly on the standard high-resolution 203 mm (8 in) touchscreen monitor.
- Two-way travel pedal is convenient and helps being productive.

## Safety Features

- Easy and safe access to daily service points.
- Standard LED lights give you a better view of your jobsite.
- Enjoy better visibility into trenches, in each swing direction, and behind you with the help of smaller cab pillars, larger windows, and a flat engine hood design. Rearview and sideview cameras are standard.
- The service platform design provides easy, safe, and quick access to upper service platform; the service platform steps use anti-skid punch plate to prevent slipping.
- Grease points are grouped conveniently for easy and quick prevention lubrication.
- Use your PIN code on the monitor to enable the push button starting feature.
- Swing lock prevents front linkage from moving as you travel.
- Ground-level shutoff switch stops all fuel to the engine when activated and shuts down the machine.
- Dedicated tie down points for safe truck transport.

Standard and Optional Equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
<b>TECHNOLOGY</b>		
Cat Product Link™	✓	
<b>SAFETY AND SECURITY</b>		
Rearview camera	✓	
Signal/warning horn	✓	
Neutral lever (lock out) for all controls	✓	
Ground-level accessible secondary engine shutoff switch in cab	✓	
Anti-skid plate and countersunk bolts on service platform	✓	
Right-side-view camera		✓
Travel alarm		✓
Rotating beacon on cab		✓
Cat Asset tracker		✓
<b>BOOM, STICKS AND LINKAGES</b>		
4.4 m (14'5") One-piece boom	✓	
2.2 m (7'3") stick	✓	
Bucket linkage, 312-family without lifting eye		✓
<b>SERVICE AND MAINTENANCE</b>		
S-O-S ports	✓	
<b>ELECTRICAL SYSTEM</b>		
LED lights on boom and cab	✓	
Roading and indicator lights, front and rear	✓	
Maintenance free batteries	✓	
Centralized electrical disconnect switch	✓	
LED lights on chassis (right-hand-side)		✓
Electrical refueling pump		✓
<b>HYDRAULIC SYSTEM</b>		
Boom, stick and bucket drift reduction valves	✓	
Electronic main control valve	✓	
Element type main hydraulic filter	✓	
Automatic swing brake	✓	
Adjustable hydraulic aggressiveness	✓	
1-slider joystick		✓
3-button joystick		✓
Advanced Tool Control (one/two way high-pressure flow with drift reduction)		✓
Quick coupler circuit for Cat Pin Grabber		✓

	Standard	Optional
<b>UNDERCARRIAGE AND STRUCTURES</b>		
All wheel drive	✓	
Automatic brake/axle lock	✓	
Creeper speed	✓	
Electronic swing and travel lock	✓	
Heavy-duty axles, advanced disc brake system and travel motor, adjustable braking force	✓	
Oscillating front axle, lockable, with remote greasing point	✓	
10.00-20 16 PR, dual tires	✓	
Steps with left-hand tool box in undercarriage	✓	
Two-piece drive shaft	✓	
Two speed hydrostatic transmission	✓	
Rear blade undercarriage with bucket rest	✓	
Fenders, front and rear, steel	✓	
2600 kg (5,730 lb) counterweight	✓	
Drive shaft guard		✓
Radiator screen		✓
<b>ENGINE</b>		
Cat® C4.4 Single Turbo diesel engine	✓	
Power mode selector	✓	
One-touch low idle with automatic engine speed control	✓	
Automatic idle shutdown	✓	
Work up to 3000 m (9,840 ft) altitude capability above sea level without engine power de-rating	✓	
52° C (125° F) high-ambient cooling capacity	✓	
Double element air filter with integrated pre-cleaner	✓	
Electric fuel priming pump	✓	
Biodiesel capability up to B20	✓	
Cold starting capability for -18° C (0° F)		✓
Cold starting capability for -25° C (-13° F)		✓

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## Technical Specifications

Engine		
Engine Model	Cat C4.4	
Gross Power	110 kW	148 hp
Net Power	104 kW	139 hp
Bore	105 mm	4 in
Stroke	127 mm	5 in
Displacement	4.4 L	285.5 in³
Number of Cylinders	4	
<ul style="list-style-type: none"><li>• Meets China Nonroad Stage IV emission standards.</li><li>• Net power advertised is the power available at the flywheel when engine is equipped with air cleaner, Clean Emission Module (CEM) exhaust gas aftertreatment, alternator, and cooling fan running at intermediate speed.</li><li>• Recommended for use up to 3000 m (9,843 ft) altitude with engine power derate above 3000 m (9,843 ft).</li><li>• Rated speed 2,000 rpm.</li><li>• Advertised power is tested per the specified standard in effect at the time of manufacture.</li></ul>		
Machine Weights		
Operating Weight Maximum	13 990 kg	30,840 lb
<ul style="list-style-type: none"><li>• Operating weight includes full fuel tank, operator, GD bucket and dual pneumatic tires. Weight varies depending on configuration.</li><li>• Typical configurations include 2.2 m (7'3") stick and 2600 kg (5,732 lb) counterweight.</li></ul>		
Transmission		
Forward/Reverse – 1st Gear	9 km/h	6 mph
Forward/Reverse – 2nd Gear	37 km/h	23 mph
Creeper Speed – 1st Gear	6 km/h	3 mph
Creeper Speed – 2nd Gear	15 km/h	9 mph
Drawbar Pull	71 kN	16,441 lbf
Maximum Gradeability	60% at (14 000 kg/30,865 lb)	
Service Refill Capacities		
Fuel Tank – Total Capacity	250 L	66 gal
Cooling System	23 L	6.1 gal
Engine Oil	15 L	4 gal
Hydraulic Tank	98 L	25.9 gal
Hydraulic System – Including Tank	230 L	61 gal
Rear Axle – Housing (Differential)	11 L	2.9 gal
Front Steering Axle – Differential	9 L	2.4 gal
Final Drive	2 L	0.5 gal
Powershift Transmission	3 L	0.8 gal
Swing Mechanism		
Maximum Swing Speed	11.5 rpm	11.5 rpm
Maximum Swing Torque	34 kN-m	25,234 ft-lbf

Hydraulic System		
Main System – Maximum Flow – Implement	245 L/min	65 gal/min
Maximum Pressure – Implement Circuit – Normal	35 000 kPa	5,076 psi
Maximum Pressure – Implement Circuit – Travel Circuit	35 000 kPa	5,076 psi
Maximum Pressure – Auxiliary Circuit – Swing Mechanism	25 900 kPa	3,756 psi
Dimensions		
Boom	One-Piece Boom 4.4 m (14'5")	
Stick	2.2 m (7'3")	
Shipping Length	7920 mm	26'0"
Support Point	2414 mm	7'11"
Tail Swing Radius	2190 mm	7'2"
Counterweight Clearance	1264 mm	4'2"
Shipping Height – Top of Cab	3131 mm	10'3"
Shipping Height with Falling Object Guard	3245 mm	10'8"
Machine Width with Blade with 10.00-20 tires	2540 mm	8'3"
Upperframe Width	2490 mm	8'2"
Height in Rooding Position	3675 mm	12'1"
Working Ranges and Forces		
Boom Type	One-Piece Boom 4.4 m (14'5")	
Stick	2.2 m (7'3")	
Bucket	General Duty	
Maximum Cutting Height	8392 mm	27'6"
Maximum Loading Height	5722 mm	18'9"
Maximum Digging Depth	4795 mm	15'9"
Maximum Wall Digging Depth	2962 mm	9'9"
Maximum Reach at Ground Line	7914 mm	26'0"
<ul style="list-style-type: none"><li>• Range values are with dual pneumatic tires (10.00-20).</li><li>• All values are with Pin Grabber Quick Coupler.</li></ul>		
Air Conditioning System		

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.85 kg of refrigerant, which has a CO<sub>2</sub> equivalent of 1.216 metric tonnes.

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