



# Cat<sup>®</sup> 140 GC

## Motor Grader

*The Cat<sup>®</sup> 140 GC motor grader is easy to own and operate. It's easy on your wallet too. A demand fan and standard ECO mode reduce fuel consumption while open access to maintenance points makes service quick and simple. Control the blade with consistent precision using lever controls from the comfort of the cab.*

### Productive and Economical

- Increase your fuel economy up to five percent with the standard ECO mode.
- The on-demand fan reduces fuel consumption and under-hood heat for longer component life.
- Improve productivity with the Electronic Throttle Control which matches engine power and torque to application requirements.
- The powershift transmission and machine balanced design ensure that you get full drawbar power to the ground with the Cat C7.1 engine.
- The all-wheel drive (AWD) option assists with traction and maneuvering in loose material. The increased power with all-wheel drive handles rough terrain with extra traction for better productivity.
- Increase your maneuverability with the articulation hitch to give you a shorter turning radius.
- The hydraulic system makes the machines more precise and predictable for a consistent grade.
- The Digital Blade Slope Meter option shows you the grade without relying on manual grade checkers.
- Product Link™ provides location, machine hours, fuel usage, productivity, idle time, diagnostic codes, and other machine data on demand through the VisionLink<sup>®</sup> online interface, which helps you improve jobsite efficiency with lower operating costs.

### Cab Keeps You Comfortable All Day Long

- Choose your comfort level in the cab with standard, mechanical suspension, or air suspension seat.
- Easily adjust the control console and steering wheel.
- The high capacity Heating, Ventilation and Air Conditioning (HVAC) system option circulates fresh air, prevents dust entry, and keeps windows from fogging.
- Easily add a radio to the cab using the built-in mounting location option.

### Reliability

- The drawbar circle moldboard stays factory tight, providing precision grading pass after pass.
- The machine structure is built for a long life. It's designed to use several types of work tools, such as a front blade.
- A slip clutch option protects the circle drive if the machine strikes an immovable object.
- The front axle maximizes bearing life while also minimizing maintenance.
- Reduce daily greasing requirements and costly repairs to your circle and pinion with the Circle Saver option.



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## Safety

- See what's behind you with the rear camera option. The dedicated display can always be on to ensure a safe work environment.
  - The heated lens keeps the rearview camera clear in cold and wet conditions.
- In the event of an engine stall, count on the secondary steering system option to help stop the machine safely.
- Use three points of contact when entering and exiting the machine with strategically placed walkways and grab rails.
- Ground level engine shut-off switch stops all fuel to the engine when activated and shuts down the machine.
- See the rear of your machine with side and rearview mirrors.
- Work past sundown using the strategically placed lights for night time visibility.
- Keep your work site safer with Cat Grade with Digital Blade Slope Meter to reduce the need for manual grade checking with working machines.

## Maintenance

- Filters, such as fuel, engine air, and oil, are grouped together for easy access and preventative maintenance.
- The standard drawbar circle moldboard increases durability using hardened circle teeth and replaceable wear inserts to help sustain factory tightness.
- Hydraulic brakes are well oiled to keep them maintenance free.
- The standard bottom guard shields the transmission and filter. Optional guarding protects your machine from damage in demanding applications.
- Remote Services connects you to a dealer service pro to help solve your problem and quickly get you to work. Remote Services works around your schedule to ensure your machine's software is up to date for optimal performance.
- S•O•S<sup>SM</sup> ports are available for simplifying maintenance and allowing for quick, easy extraction of fluid samples for analysis.

## Versatility

- Improve the performance and efficiency of your machine with the counterweight or push block option.
- Ripper and scarifier options are available to assist with grading hard ground.
- The front lift group option is ready for attachments like the straight or angle front blade.

## Standard and Optional Equipment

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

|                               | Standard | Optional |                                 | Standard | Optional |
|-------------------------------|----------|----------|---------------------------------|----------|----------|
| <b>CAB</b>                    |          |          | <b>DRAWBAR CIRCLE MOLDBOARD</b> |          |          |
| Standard Seat                 | ✓        |          | Standard                        | ✓        |          |
| Mechanical Suspension Seat    |          | ✓        | Circle Drive Slip Clutch        |          | ✓        |
| Air Suspension Seat           |          | ✓        | Circle Saver                    |          | ✓        |
| Steering Wheel/Lever Controls | ✓        |          | <b>SAFETY</b>                   |          |          |
| ROPS/FOPS                     |          | ✓        | Parking Brake                   | ✓        |          |
| Heating/Cooling Cab System    |          | ✓        | Signaling/Warning Horn          | ✓        |          |
| Rear Wiper                    |          | ✓        | Rearview Mirror                 | ✓        |          |
| Base Cab                      | ✓        |          | Rearview Camera                 |          | ✓        |
| Canopy                        |          | ✓        | Hydraulic Brakes                | ✓        |          |
| Cab Plus                      |          | ✓        | Secondary Steering System       |          | ✓        |
| Information Display Screen    | ✓        |          | Side View Mirrors               | ✓        |          |
| Halogen Lighting              | ✓        |          | Grab Rails                      | ✓        |          |
| Entertainment Radio Ready     | ✓        |          | Walkways                        |          | ✓        |
| Rear Window Screen            |          | ✓        | <b>VERSATILITY</b>              |          |          |
| Front Wipers                  |          | ✓        | Counterweight                   |          | ✓        |
| Digital Blade Slope Meter     |          | ✓        | Push Block                      |          | ✓        |
| Product Link                  | ✓        |          | Ripper                          |          | ✓        |
| <b>ENGINE</b>                 |          |          | Scarifier                       |          | ✓        |
| Cat C7.1                      | ✓        |          | Front Lift Group                |          | ✓        |
| ECO Mode                      | ✓        |          | Front Blade                     |          | ✓        |
| No-Spin Differential          |          | ✓        |                                 |          |          |
| On-Demand Fan                 | ✓        |          |                                 |          |          |
| All-Wheel Drive               |          | ✓        |                                 |          |          |

*Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area. For additional information, refer to the Technical Specifications brochure available at [www.cat.com](http://www.cat.com) or your Cat dealer.*

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## Technical Specifications

### Power Train

|   |  |                       |
|---|--|-----------------------|
| Engine Model  | Cat 7.1  |                       |
| Emissions   | Meets India CEV Stage V emission standards or China Nonroad Stage III and Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3/ EU Stage IIIA. |                       |
| Net Power – ISO 9249/SAE J1349 EEC 80/1269                | 131 kW-147 kW  | 176 hp-196 hp         |
| Bore  | 105 mm   | 4.1 in                |
| Displacement  | 7.01 L   | 427.8 in <sup>3</sup> |
| Stroke  | 135 mm   | 5.3 in                |
| Engine RPM  | 2,200 rpm  |                       |
| Maximum Torque – ISO 9249 – Tier 3/ Stage IIIA Equivalent | 889 N·m  | 656 lbf·ft            |
| Maximum Torque – ISO 9249 – India CEV Stage V             | 835 N·m  | 616 lbf·ft            |
| Top Forward Speed   | 41.7 km/h  | 25.9 mph              |
| Top Reverse Speed   | 24.0 km/h  | 14.9 mph              |
| Turning Radius, Outside Front Tires                       | 7.8 m  | 25.6 ft               |

- Net power is tested per ISO 9249, SAE J1349, and EEC 80/1269 standards in effect at the time of manufacture.
- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 2.0 kg of refrigerant which has a CO<sub>2</sub> equivalent of 2.86 metric tonnes.
- Net power advertised is the power available at rated speed of 2,200 rpm, measured at the flywheel when engine is equipped with fan, air cleaner, muffler and alternator.

### Weight

#### Typically Equipped Machine Weight

|   |           |           |
|---|-----------|-----------|
| Weight* – ROPS – Tier 3/Stage IIIA Equivalent                         | 17 390 kg | 38,338 lb |
| Front Axle  | 5217 kg   | 11,502 lb |
| Rear Axle   | 12 173 kg | 26,836 lb |
| Weight* – All-Wheel Drive (AWD) – ROPS – Tier 3/Stage IIIA Equivalent | 18 190 kg | 40,102 lb |
| Front Axle  | 5457 kg   | 12,031 lb |
| Rear Axle   | 12 733 kg | 28,071 lb |
| Weight** – India CEV Stage V  | 17 650 kg | 38,912 lb |
| Front Axle  | 4942 kg   | 10,895 lb |
| Rear Axle   | 12 708 kg | 28,016 lb |

\*Typically equipped operating weight is calculated with full fuel tank, coolant, lubricants, operator, push block, ROPS closed cab, rear ripper/scarifier, 4.3 m (14 ft) blade, 17.5-25 MP tires on multi-piece rims and other equipment.

\*\*Typically equipped operating weight is calculated with full fuel tank, coolant, lubricants, operator, push block, rear ripper, 4.3 m (14 ft) blade, tires on multi-piece rims (17.4 -25 Bias), ROPS cab with HVAC and other equipment.

### Dimensions

|                    |           |          |
|--------------------|-----------|----------|
| Length of Machine* | 10 332 mm | 406.8 in |
| Maximum Height     | 3839 mm   | 151.1 in |
| Width              | 2428 mm   | 95.6 in  |

\*Typically equipped with push block and ripper.

### Moldboard

|                  |        |         |
|------------------|--------|---------|
| Width            | 3.7 m  | 12 ft   |
| Height           | 509 mm | 20 in   |
| End Bit          | 152 mm | 6 in    |
| Cutting Edge     | 152 mm | 6 in    |
| Arc Radius       | 413 mm | 16.3 in |
| Throat Clearance | 112 mm | 4.7 in  |

### Blade Range

|                           |         |         |
|---------------------------|---------|---------|
| Circle Center Shift       |         |         |
| Right                     | 728 mm  | 28.7 in |
| Left                      | 752 mm  | 29.6 in |
| Moldboard Side Shift      |         |         |
| Right                     | 512 mm  | 20.2 in |
| Left                      | 663 mm  | 26.1 in |
| Blade Tip Range           |         |         |
| Forward                   | 40°     |         |
| Backward                  | 5°      |         |
| Maximum Shoulder Reach    |         |         |
| Right                     | 1928 mm | 75.9 in |
| Left                      | 1764 mm | 69.4 in |
| Maximum Lift Above Ground | 480 mm  | 18.9 in |
| Maximum Depth of Cut      | 735 mm  | 28.9 in |

### Net Power

|           |        |        |
|-----------|--------|--------|
| Gear      | VHP    |        |
| Forward   |        |        |
| 1st       | 131 kW | 176 hp |
| 2nd       | 139 kW | 186 hp |
| 3rd – 6th | 147 kW | 196 hp |
| Reverse   |        |        |
| 1st       | 131 kW | 176 hp |
| 2nd       | 139 kW | 186 hp |
| 3rd       | 147 kW | 196 hp |

### Service Refill Capacities

|                          |       |          |
|--------------------------|-------|----------|
| Fuel Tank                | 297 L | 78.5 gal |
| Standard Circle Drive    | 2 L   | 0.5 gal  |
| Circle Drive Slip Clutch | 7.5 L | 2 gal    |
| Engine Crankcase         | 21 L  | 5.6 gal  |
| Cooling System           | 40 L  | 10.6 gal |
| Hydraulic System         | 45 L  | 11.9 gal |
| Transmission             | 18 L  | 4.8 gal  |
| Differential Group       | 33 L  | 8.7 gal  |



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Build Number: 01A  
(Afr-ME, Aus-NZ, CIS, China, India, Indonesia, S Am, SE Asia, Turkey)

