



# Cat<sup>®</sup> 16 GC

## Motor Grader

***The Cat<sup>®</sup> 16 GC Motor Grader is easy to operate and maintain. Control the blade with consistent precision using the steering wheel and lever controls from the comfort of the cab. An on-demand fan and standard ECO mode reduces fuel consumption while easy access to maintenance points makes service quick and simple. Not all features are available in all regions. Consult your Cat dealer for specific configurations available in your region.***

### **Productive and Economical**

- Get the reliable power you need to get the job done with the Cat C13 engine.
- The machine is well-balanced to help you get full drawbar power to the ground.
- Increase your fuel economy up to 5% with the standard ECO mode.
- The on-demand fan reduces fuel consumption and under-hood heat for longer component life.
- The powershift transmission provides smooth shifting and has the capability to make quick directional changes when utilizing the new ergonomic shifter. With eight forward and six reverse speeds, you can select the right gear for the job.
- Improve productivity with the Electronic Throttle Control which matches engine power and torque to application requirements.
- The efficient hydraulic system helps you to create a more precise and consistent grade.
- The Digital Blade Slope Meter option shows you the grade without relying on manual grade checkers.
- Get extra traction with the differential lock when working in loose material.
- Keep your machine's engine speed at your desired level when using throttle lock and throttle hold.
- Product Link™ Elite provides location, machine hours, fuel usage, productivity, idle time, diagnostic codes, and other machine data on demand through the VisionLink® online interface, which helps you improve jobsite efficiency with lower operating costs. Minestar™ can also be configured to your machine for added support.

### **Cab Keeps You Comfortable All Day Long**

- Choose your comfort level in the cab with the mechanical suspension or air suspension seat.
- Easily pull the control console and tilt the steering wheel to your ideal position.
- The standard Heating, Ventilation and Air Conditioning (HVAC) system circulates fresh air, prevents dust entry, and keeps windows from fogging.
- Standard fresh air vents at the rear of the cab help to keep the windows clear.
- Easily add a radio to the cab using the standard mount, speakers and wiring.
- Neatly pack away all your gear with in-cab storage space, cup and cell phone holder.

### **Reliable Performance**

- The adjustable drawbar circle moldboard helps to stay factory tight with shimmable draftball, circle and blade wearstrips and to provide precision grading pass after pass.
- The machine is built for a long life with reinforced structures.
- The standard slip clutch protects the circle drive if the moldboard strikes an immovable object.
- The front axle maximizes bearing life while also minimizing maintenance with the live spindle design.
- The standard compression brakes help to extend the brakes life while also maintaining the machine's braking power.
- Standard blade lift accumulators help to absorb impact loads from the moldboard and help protect the ground engagement tools and front frame from potential damage.



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## Safely Home Every Day

- See what's behind you with the high-resolution rear camera option. The dedicated display can always be on to ensure a safe work environment.
- In the event of a drop in hydraulic pressure, 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. An optional rear step is available to help with access to the tandems. The steps use an anti-skid punch plate to prevent slipping.
- Ground level engine shut-off switch stops all fuel to the engine when activated and shuts the machine down.
- See the rear of your machine with side and rearview mirrors.
- Work past sundown using the strategically placed lights for nighttime visibility.

## Maintenance Made Easy

- Filters 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.
- Split shims are added for easier service and adjustments for the ball and socket.
- Reduce daily greasing requirements and potential costly repairs to critical joints with the optional autolube system.
- Delayed engine shutdown allows for proper cooling of the engine which helps to prolong component life.
- Brake adjustments are easily accessible and offer an indicator when service is needed.
- Add the optional under hood lighting to illuminate daily maintenance points.
- An optional ground level fast fill system is available to speed up fuel stops.

## Versatile to Fit Your Needs

- Improve the performance and efficiency of your machine with the optional push block.
- Optional rippers are available to assist with grading hard ground.
- Make your machine fire suppression ready with the optional dealer installed kit.
- Optional guarding protects your machine from damage in demanding applications. The optional bottom guard shields the transmission and filter. Optional front axle guards help to protect the front axle and steering cylinders.

## 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>              |          |          |
| Mechanical suspension seat  | ✓        |          | 4.9 m (16 ft) moldboard                      | ✓        |          |
| Air suspension seat   |          | ✓        | Circle drive slip clutch                     | ✓        |          |
| Steering wheel/lever controls   | ✓        |          | <b>SAFETY</b>                                |          |          |
| Rollover Protective Structure (ROPS)/<br>Falling Object Protective Structure (FOPS) | ✓        |          | Parking brake                                | ✓        |          |
| Heating/cooling cab system  | ✓        |          | Signaling/warning horn                       | ✓        |          |
| Low profile   | ✓        |          | Rearview mirror                              | ✓        |          |
| Fire extinguisher mounting ready  | ✓        |          | Rearview camera                              |          | ✓        |
| Information display screen  | ✓        |          | Hydraulic brakes                             | ✓        |          |
| 12V power ports   | ✓        |          | Secondary steering system                    |          | ✓        |
| Cell phone holder   | ✓        |          | Side-view mirrors                            | ✓        |          |
| Halogen lighting  |          | ✓        | Walkways and grab rails                      | ✓        |          |
| LED lighting  |          | ✓        | High visibility mirror package               |          | ✓        |
| Entertainment radio ready   | ✓        |          | Rear tandem step                             |          | ✓        |
| Rear window screen  |          | ✓        | Warning beacon                               |          | ✓        |
| Bluetooth™ radio  |          | ✓        | Seat belt indication (internal and external) |          | ✓        |
| Front wipers  | ✓        |          | Turn signals and high/low beam headlights    |          | ✓        |
| Rear wiper  |          | ✓        | <b>VERSATILITY</b>                           |          |          |
| Digital blade slope meter   |          | ✓        | Push block                                   |          | ✓        |
| Product Link™ Elite   | ✓        |          | Ripper                                       |          | ✓        |
| <b>ENGINE</b>   |          |          | Retrieval hitch                              |          | ✓        |
| Cat® C13  | ✓        |          | Steering cylinder guards                     |          | ✓        |
| ECO mode  | ✓        |          | Transmission guards                          |          | ✓        |
| On-demand fan   | ✓        |          |  |          |          |

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

| Engine   |   |                     |
|--|---|---------------------|
| Engine Model   | Cat C13   |                     |
| Emissions  | Equivalent to U.S. EPA Tier 3/<br>EU Stage IIIA |                     |
| Net Power  | 249 kW  | 334 hp              |
| Displacement   | 12.5 L  | 763 in <sup>3</sup> |
| Bore   | 130 mm  | 5.1 in              |
| Stroke   | 157 mm  | 6.2 in              |
| Torque Rise ISO 9249   | 46%   |                     |
| Maximum Torque ISO 9249  | 1738 N·m  | 1,282 lb-ft         |
| Number of Cylinders  | 6   |                     |
| Derating Altitude  | 3954 m  | 12,972 ft           |
| Ambient Capability   | 50° C   | 122° F              |
| <ul style="list-style-type: none"> <li>• Net power is tested per ISO 9249, SAE J1349, and EEC 80/1269 standards in effect at the time of manufacture.</li> <li>• Net power advertised is the power available at rated speed of 2,000 rpm, measured at the flywheel when engine is equipped with fan, air cleaner, muffler and alternator.</li> <li>• Power as declared per ISO 14396.</li> </ul> |   |                     |

| Machine Weight  |           |           |
|---|-----------|-----------|
| Weight*   | 31 809 kg | 70,127 lb |
| *Typically equipped machine weight is calculated with full fluids, 4.9 m (16 ft) blade, push plate, ripper, bottom guard, and operator. |           |           |

| Dimensions                                      |           |          |
|---|-----------|----------|
| Length of Machine*                              | 11 781 mm | 463.8 in |
| Height – Top of Cab                             | 3539 mm   | 139.3 in |
| Width   | 3319 mm   | 130.7 in |
| *Typically equipped with push block and ripper. |           |          |

| Moldboard        |        |         |
|------------------|--------|---------|
| Blade Width      | 4.9 m  | 16 ft   |
| Blade Height     | 787 mm | 31 in   |
| Arc Radius       | 413 mm | 16.3 in |
| Throat Clearance | 126 mm | 5 in    |
| End Bit Width    | 152 mm | 6 in    |

| Blade Range               |        |         |
|---------------------------|--------|---------|
| Circle Center Shift       |        |         |
| Right                     | 560 mm | 22 in   |
| Left                      | 690 mm | 27.2 in |
| Moldboard Side Shift      |        |         |
| Right                     | 790 mm | 31.1 in |
| Left                      | 740 mm | 29.1 in |
| Blade Tip Range           |        |         |
| Forward                   | 40°    |         |
| Backward                  | 5°     |         |
| Maximum Lift Above Ground | 400 mm | 15.7 in |
| Maximum Depth of Cut      | 470 mm | 18.5 in |

| Service Refill Capacities    |       |          |
|------------------------------|-------|----------|
| Fuel Tank                    | 432 L | 114 gal  |
| Circle Drive                 | 10 L  | 2.6 gal  |
| Engine Crankcase             | 36 L  | 9.5 gal  |
| Cooling System               | 69 L  | 18.2 gal |
| Hydraulic System             | 56 L  | 14.8 gal |
| Transmission/Differential    | 117 L | 30.9 gal |
| Tandem Housing (each)        | 125 L | 33 gal   |
| Front Spindle Housing (each) | 0.9 L | 0.24 gal |

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at [www.cat.com](http://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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