



Cat[®] 120 GC

Motor Grader

The Cat[®] 120 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 all-new 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 balanced machine design ensure that you get full drawbar power to the ground with the Cat C4.4 engine.
- The hydraulic system makes the machine more precise and predictable for a consistent grade.
- The all-wheel drive (AWD) option assists with traction and maneuvering the machine. The increased power helps you to handle slopes and loose material better.
- 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® 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 be always on to ensure a safe work environment.
- 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 nighttime visibility.

Maintenance

- Filters, such as fuel, engine air, and oil filters, are grouped together for easy access and preventive maintenance.
- The standard drawbar circle moldboard increases durability using hardened circle teeth and replaceable wear inserts to help sustain factory tightness.
- Brake adjustments are maintenance free and easily accessible.
- The standard bottom guard shields the transmission and filter. Optional guarding protects your machine from damage in demanding applications.
- Spend less time cleaning the cooling system with the reversing fan option, which reduces costs when cleaned once per week for more uptime.

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.
- Add the front blade option to spread more material faster.
- The optional tow hitch allows you to tow equipment or implements behind the machine.

Standard and Optional Equipment

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

| | Standard | Optional | | Standard | Optional |
|-------------------------------|----------|----------|---------------------------------|----------|----------|
| CAB | | | DRAWBAR CIRCLE MOLDBOARD | | |
| Standard seat | ✓ | | Standard | ✓ | |
| Mechanical suspension seat | | ✓ | Circle drive slip clutch | | ✓ |
| Air suspension seat | | ✓ | Circle Saver | | ✓ |
| Steering wheel/lever controls | ✓ | | SAFETY | | |
| ROPS/FOPS | ✓ | | Parking brake | ✓ | |
| Heating/cooling cab system | | ✓ | Signaling/warning horn | ✓ | |
| Rear wiper | | ✓ | Rearview mirror | ✓ | |
| Base cab | ✓ | | Rearview camera | | ✓ |
| Cab Plus | | ✓ | Hydraulic brakes | ✓ | |
| Low profile cab | | ✓ | Secondary steering system | | ✓ |
| Information display screen | ✓ | | Side-view mirrors | ✓ | |
| Halogen lighting | | ✓ | Walkways and grab rails | ✓ | |
| Entertainment radio ready | | ✓ | VERSATILITY | | |
| Rear window screen | | ✓ | Push block | | ✓ |
| Front wipers | ✓ | | Ripper | | ✓ |
| Digital Blade Slope Meter | | ✓ | Scarifier | | ✓ |
| Product Link™ | ✓ | | Front blade | | ✓ |
| ENGINE | | | | | |
| Cat® C4.4 | ✓ | | | | |
| Eco mode | ✓ | | | | |
| All-wheel drive (AWD) | | ✓ | | | |
| On-demand fan | ✓ | | | | |
| Reversing 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 or your Cat dealer.

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Technical Specifications

Power Train

| | | |
|------------------------------|---|-----------------------|
| Engine Model | Cat 4.4 | |
| Emissions | Meets U.S. EPA Tier 4 Final and EU Stage V emission standards | |
| Net Engine Power Range | 115 kW-128 kW | 154 hp-171 hp |
| Net Engine Power Range (AWD) | 121 kW-128 kW | 163 hp-171 hp |
| Displacement | 4.4 L | 268.5 in ³ |
| Bore | 105.0 mm | 4.1 in |
| Stroke | 127.0 mm | 5.0 in |
| Torque Rise (ISO 9249) | 21% | |
| Maximum Torque (ISO 9249) | 738 N•m | 544 lb-ft |
| Number of Cylinders | 4 | |
| Derating Altitude | 3000 m | 9,842 ft |
| Standard Capability | 50°C | 122°F |

- Net power is tested per ISO 9249, SAE J1349, and EEC 80/1269 standards in effect at the time of manufacture.
- 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.
- Power as declared per ISO 14396.

Weight

| | | |
|---------------------------------|-----------|-----------|
| Weight* | 14 496 kg | 31,958 lb |
| Weight* – All-Wheel Drive (AWD) | 15 042 kg | 33,162 lb |

*Typically equipped includes tires, push block, ripper, bottom guard, operator, and full fluids and fuel.

Dimensions

| | | |
|---------------------------------|-----------|----------|
| Length of Machine* | 9941 mm | 391.4 in |
| Maximum Height with attachments | 3787.8 mm | 149.1 in |
| Width | 2402 mm | 94.6 in |
| Width (AWD) | 2549.9 mm | 100.4 in |

*Typically equipped with push block and ripper.

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 2.0 kg (4.4 lb) of refrigerant which has a CO₂ equivalent 2.86 metric tonnes (3.15 tons).

Moldboard

| | | |
|--------------------|--------|---------|
| Blade Width | 3.7 m | 12 ft |
| Blade Height | 580 mm | 20 in |
| Arc Radius | 413 mm | 16.3 in |
| Throat Clearance | 112 mm | 4.7 in |
| End Bit Width | 152 mm | 6 in |
| Cutting Edge Width | 152 mm | 6 in |

Blade Range

| | | |
|---------------------------|--------|---------|
| Circle Center Shift | | |
| Right | 656 mm | 25.8 in |
| Left | 656 mm | 25.8 in |
| Moldboard Side Shift | | |
| Right | 663 mm | 26.1 in |
| Left | 512 mm | 20.2 in |
| Blade Tip Range | | |
| Forward | 40° | |
| Backward | 5° | |
| Maximum Lift Above Ground | 410 mm | 16.1 in |
| Maximum Depth of Cut | 775 mm | 30.5 in |

Service Refill Capacities

| | | |
|----------------------------------|-------|----------|
| Fuel Tank | 269 L | 71 gal |
| Circle Drive with Slip Clutch | 7 L | 1.8 gal |
| Circle Drive without Slip Clutch | 1.5 L | 0.4 gal |
| Engine Crankcase | 7.6 L | 2.0 gal |
| Cooling System | 39 L | 10.3 gal |
| Hydraulic System | 55 L | 14.5 gal |
| Transmission | 17 L | 4.5 gal |

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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