



# Cat<sup>®</sup> 120 GC

## Motor Grader

*The Cat<sup>®</sup> 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 Digital Blade Slope Meter option shows you the grade without relying on manual grade checkers.
- Product Link<sup>™</sup> 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 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
<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		✓
Low profile cab		✓	Side-view mirrors	✓	
Information display screen	✓		Walkways and grab rails	✓	
Halogen lighting		✓	<b>VERSATILITY</b>		
Entertainment radio ready		✓	Push block		✓
Rear window screen		✓	Ripper		✓
Front wipers		✓	Scarifier		✓
Digital Blade Slope Meter		✓	Front blade		✓
Product Link™	✓		Tow hitch		✓
<b>ENGINE</b>					
Cat® C4.4	✓				
Eco mode	✓				
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](http://www.cat.com) or your Cat dealer.*

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## Technical Specifications

### Power Train

Engine Model	Cat 4.4	
Emissions	U.S. EPA Tier 3/ EU Stage IIIA equivalent	
Net Engine Power Range	115 kW-128 kW	154 hp-171 hp
Displacement	4.4 L	268.5 in <sup>3</sup>
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*	14 254 kg	31,424 lb
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\*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

\*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 CO<sub>2</sub> 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](http://www.cat.com).

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