



Cat[®] 150

Motor Grader

Performance

- Cat[®] C7 engine meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- Programmable Autoshift option simplifies operation by allowing transmission to be programmed to shift at optimal points to match application.
- Power Shift Countershaft Transmission matches to engine, maximizing power to the ground.
- Electronic Throttle Control helps improve productivity by providing best match of horsepower and torque for application demands.

Efficiency

- Aggressive blade angle, optimized moldboard curvature and large throat clearance allows material to roll more freely along blade, increasing efficiency.
- Hydraulic demand fan automatically adjusts speed according to cooling requirements resulting in more power to the ground and improved fuel efficiency.
- Engine idle shutdown timer is available to shut down engine after a set period of time saving fuel and helping reduce emissions.

Ease of Operation

- Selectable blade lift modes – Fine, Normal, or Coarse – allow you to choose the blade lift modulation mode that best fits your application or operating style.
- Joystick controls with electronically adjustable control pods reduce hand and arm movement by 78%, helping reduce operator fatigue.
- Left joystick controls steering, articulation, return-to-center, wheel lean, gear selection, left moldboard lift cylinder and float.
- Right joystick controls drawbar, circle and moldboard functions as well as electronic throttle control and manual differential lock/unlock.
- Articulation Return-to-Center automatically returns machine to a straight frame position from any angle with the touch of a button.
- Rocker and control switches are in easy reach.

Serviceability

- Durable nylon composite wear inserts maximize circle torque and component life.
- Sacrificial brass wear strips between blade mounting group and moldboard can be easily adjusted and replaced.
- Shimless Moldboard Retention System uses vertical and horizontal adjusting screws to keep moldboard wear strips aligned for reduced blade chatter and precise blade control.

Comfort

- Control pods can be adjusted electronically, making it easy to set to ideal operating position.
- Standard Cat Comfort Series suspension seat is fully adjustable.
- High capacity Heating, Ventilation and Air Conditioning (HVAC) system dehumidifies and pressurizes cab, sealing out dust and helping keep windows clear.

Technology

- Shuttle Shift allows smooth, fast direction shifts without requiring you to manipulate the throttle or inching pedal.
- Cat Product Link[™] aids equipment management with remote monitoring capabilities.
- Optional Cat Grade Control Cross Slope helps maintain desired cross slope by automatically controlling one side of the blade.
- Optional Cat AccuGrade[™] uses positioning and guidance technologies, machine sensors, and automatic blade control to help get to grade faster, easier and more efficiently.
- Optional Cat Advanced Control Joysticks (ACJs) allow you to control automated grading solutions efficiently and safely without removing your hands from the joysticks.

Safety

- Angled cab doors, tapered engine enclosure and sloped rear window make it easy to see moldboard and tires, as well as behind the machine.
- Optional rear vision camera enhances sight to the rear of the machine.



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Engine		
Engine Model*	Cat C7	
Base Power (1st gear) – Net	136 kW	183 hp
Base Power (1st gear) – Net (Metric)		186 hp
VHP Plus Range – Net	136-174 kW	183-233 hp
VHP Plus Range – Net (Metric)		186-237 hp
Displacement	7.2 L	439 in ³
Bore	110 mm	4.3 in
Stroke	127 mm	5 in
Torque Rise (VHP Plus)	39%	
Maximum Torque (VHP Plus)	1159 N·m	855 lbf·ft
Speed @ Rated Power	2,000 rpm	
Number of Cylinders	6	
Derating Altitude	3048 m	10,000 ft
Standard – Maximum Fan Speed	1,450 rpm	
Standard – Minimum Fan Speed	600 rpm	
Standard – Ambient Capability	43° C	109° F
High Ambient – Maximum Fan Speed	1,650 rpm	
High Ambient – Minimum Fan Speed	600 rpm	
High Ambient Capability	50° C	122° F
<ul style="list-style-type: none"> • Maximum torque (VHP Plus) measured at 1,000 rpm. • 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 running at minimum speed, air cleaner, muffler and alternator. • Power as declared per ISO 14396 Rated Speed = 2,000 rpm VHP Plus = 175 kW (234 hp) • No engine derating required up to 3048 m (10,000 ft). 		

*Note: Meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.

Frame		
Circle Diameter	1530 mm	60.2 in
Drawbar – Height	152 mm	6 in
Drawbar – Width	76.2 mm	3 in
Front Frame Structure – Height	305 mm	12 in
Front Frame Structure – Width	305 mm	12 in
Front Axle – Wheel Lean, Left/Right	18 degrees	
Front Axle – Total Oscillation Per Side	32 degrees	

Weights			
Gross Vehicle Weight – Base			
Total	16 581 kg	36,554 lb	
Front Axle	4337 kg	9,561 lb	
Rear Axle	12 244 kg	26,993 lb	
Gross Vehicle Weight – Maximum			
Total	23 538 kg	51,892 lb	
Front Axle	7532 kg	16,606 lb	
Rear Axle	16 006 kg	35,287 lb	
Gross Vehicle Weight – Typically Equipped			
Total	18 991 kg	41,868 lb	
Front Axle	5314 kg	11,716 lb	
Rear Axle	13 677 kg	30,152 lb	

- Base operating weight calculated on standard machine configuration with 14.00R24 tire with multi-piece rim, full fuel tank, coolant, lubricants and operator.

Moldboard		
Moldboard – Width	3.7 m	12 ft
Moldboard – Height	610 mm	24 in
Arc Radius	413 mm	16.3 in
Throat Clearance	166 mm	6.5 in

Blade Range		
Circle Centershift – Right	728 mm	28.7 in
Circle Centershift – Left	695 mm	27.4 in
Moldboard Sideshift – Right	660 mm	26 in
Moldboard Sideshift – Left	510 mm	20.1 in
Blade Tip Range – Forward	40 degrees	
Blade Tip Range – Backward	5 degrees	
Maximum Shoulder Reach Outside of Tires – Right	1978 mm	77.9 in
Maximum Shoulder Reach Outside of Tires – Left	1790 mm	70.5 in
Maximum Lift Above Ground	480 mm	18.9 in
Maximum Depth of Cut	715 mm	28.1 in



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AEXQ1975-01 (10-2019)
Replaces AEXQ1975
Build Number: 14A

