



Cat[®] 160/ 160 AWD

Motor Graders

The Cat[®] 160/160 AWD Motor Grader delivers power, efficiency, and operating finesse to the job. Joystick controls provide ergonomic comfort for the operator. This high-performance machine minimizes emissions with the latest control technologies, without loss of productivity.

Performance

- 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 allow 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.

Serviceability

- 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.
- Optional High Performance Circle (HPC) improves machine performance, efficiency, and uptime availability. When paired with the Cat-exclusive extended life blade rail wear strips, the HPC reduces downtime and total cost of ownership for the drawbar circle moldboard. The HPC helps to eliminate hours of regular maintenance for frequent inspections, wear strip replacement, and circle shoe adjustments associated with conventional circles. The fully sealed bearing design in the HPC removes exposure to abrasive materials during grading.

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.



Cat® 160/160 AWD Motor Graders

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, 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.

Technology

- Shuttle Shift allows smooth, fast direction shifts without requiring manipulating 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 factory-installed 3D mastless Cat Grade enables operators to improve grading efficiency, accuracy, and productivity in both rough grading and finish grading applications. When mastless grade is installed at factory, E-fence is not included.
- Optional Cat Grade 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 control of automated grading solutions efficiently and safely without removing 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.

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
POWERTRAIN			OTHER STANDARD EQUIPMENT		
Demand fan, hydraulic	✓		Anti-glare paint	✓	
Differential Lock/Unlock, Automatic	✓		Bumper, rear, integrated with hitch	✓	
Engine Cat® C7 diesel with automatic engine derate and idle control. Note: Brazil MAR-1, equivalent to U.S. EPA Tier 3 and EU Stage IIIA	✓		Cutting edges: - 152 × 16 mm (6 × 5/8 in) - curved DH-2 steel - 19 mm (3/4 in) mounting bolts	✓	
Fuel tank, ground-level access and sediment drain	✓		Fluid check, ground-level	✓	
Tandem drive	✓		Ground-level engine shutdown	✓	
Transmission, 8F/6R, power shift, direct drive	✓		Ground-level fueling	✓	
Transmission, autoshift		✓	Horn, electric	✓	
Variable Horsepower Plus (VHP Plus)	✓		Hydraulic lines for base functions	✓	
ELECTRICAL			Lockout, hydraulic implement (for roading and servicing)	✓	
Alarm, back up	✓		Moldboard - 3658 × 610 × 22 mm (12 ft × 24 in × 7/8 in)	✓	
Breaker panel, ground accessible	✓		Pump, hydraulic, high capacity, 98 cm³ (6 in³)	✓	
Electrical system, 24V	✓		S-O-S SM ports: engine, hydraulic, transmission, coolant, fuel	✓	
Starter, electric	✓		Tool box	✓	
OPERATOR ENVIRONMENT			OTHER ACCESSORIES		
Accelerator	✓		Camera, rearview		✓
Air conditioning with heater	✓		Heater, engine coolant: 120V		✓
Arm and wrist rest, electronically adjustable	✓		Heater, engine coolant: 240V		✓
Articulation, automatic Return-to-Center	✓		Security system		✓
Coat hook	✓		Sound suppression		✓
Cup holder	✓		ATTACHMENTS AVAILABLE FROM FACTORY		
Display, digital speed and gear	✓		Push block		✓
Fan, defroster, rear window		✓	Ripper		✓
Gauge, machine level	✓		Scarifier		✓
Gauge cluster (analog) – fuel, articulation, engine coolant temp, engine RPM, hydraulic oil temp	✓		Front lift group		✓
Joystick hydraulic controls right/left blade lift with float position, circle drive, blade sideshift and tip, centershift, front wheel lean, articulation and steering	✓		Top adjust circle		✓
Mirror, inside rearview, wide angle	✓		High performance circle		✓
Mirrors, outside: heated 24V		✓	ADDITIONAL ATTACHMENTS		
Mirrors, outside: mounted		✓	Snow wings		✓
Power port, 12V	✓		Plows		✓
Rollover protective structure (ROPS) cab, sound suppressed	✓		Blades		✓
Seat, cloth-covered, comfort suspension	✓		Blade extensions		✓
Seat belt, retractable	✓		Brooms		✓
Shade, sun		✓			
Storage area for cooler/lunchbox	✓				
Throttle control, electronic	✓				

Cat® 160/160 AWD Motor Graders

Technical Specifications

Powertrain		
Engine Model	Cat® C9	
Emissions	Brazil MAR-1, equivalent to U.S. EPA Tier 3 and EU Stage IIIA	
Base Power (1st gear) – Net	159 kW	213 hp
VHP Plus Range – Net	159-185 kW	213-248 hp
Displacement	8.8 L	537 in³
Bore	112 mm	4.4 in
Stroke	149 mm	5.9 in
Torque Rise (VHP Plus)	40%	
Maximum Torque (VHP Plus)	1237 N·m	912 lb·ft
Maximum Torque (AWD On)	1344 N·m	991 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) • AWD = 201 kW (269 hp) • No engine derating required up to 3048 m (10,000 ft). 		



Moldboard			
Moldboard – Width	3.7 m	12 ft	
Moldboard – Height	610 mm	24 in	
Arc Radius	413 mm	16.3 in	
Throat Clearance	95.0 mm	3.7 in	

Weights				
Gross Vehicle Weight – Typically Equipped*			AWD	
Total	19 715 kg	43,465 lb	20 607 kg	45,431 lb
Front Axle	5626 kg	12,404 lb	6103 kg	13,455 lb
Rear Axle	14 089 kg	31,061 lb	14 504 kg	31,976 lb

*Base operating weight on standard machine configuration is calculated with full fuel tank, coolant, lubricants, operator and 17.50R25 tires with multi-piece (MP) rims. Base operating weight (AWD) on standard machine configuration is calculated with full fuel tank, coolant, lubricants, operator and 14.0R24 tires with multi-piece (MP) rims.

Blade Range		
Circle Centershift – Right	728 mm	28.7 in
Circle Centershift – Left	695 mm	27.4 in
Moldboard Sideshift – Right	950 mm	37.4 in
Moldboard Sideshift – Left	820 mm	32.3 in
Blade Tip Range – Forward	40 degrees	
Blade Tip Range – Backward	5 degrees	
Maximum Shoulder Reach Outside of Tires – Right	2278 mm	89.7 in
Maximum Shoulder Reach Outside of Tires – Left	2090 mm	82.3 in
Maximum Lift Above Ground	452 mm	17.9 in
Maximum Depth of Cut	750 mm	29.5 in

Air Conditioning System			
<ul style="list-style-type: none"> • The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf. See the label or instruction manual for identification of the gas. • If equipped with R134a (Global Warming Potential = 1430), the system contains 1.8 kg (4.0 lb) of refrigerant which has a CO₂ equivalent of 2.574 metric tonnes (2.837 tons). 			

AEXQ4452-00 (07-2025)
Build Number: 14A
(Aus-NZ, Afr-ME, Eurasia,
SE Asia, S Am)

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

© 2025 Caterpillar. All Rights Reserved. CAT, CATERPILLAR, LET'S DO THE WORK, VisionLink, their respective logos, "Caterpillar Corporate Yellow," the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

