



Cat[®] 140

Motor Grader

The Cat[®] 140 motor grader is a mid-size machine ideal for road maintenance and road construction. It delivers the right balance of power, control, and blade reach for grading, crowning, and ditching on gravel, rural, and secondary roads.

Operator-First Design

- The redesigned operator station resets the industry standard for comfort and visibility.
- The touchscreen display integrates more options.
- Air suspension seat with optional leather trim, heating, and cooling for operator comfort.
- Cab "C" pillars are moved to directly behind the operator for optimal rear cab corner visibility.

Safety Matters

- Meet jobsite safety goals through optional cameras, seat belts, and alerts so you can reach safety milestones.
- Expanded visibility is available in every direction, helping crews work smarter and safer.
- Synchronized door wipers clear water, snow, and debris in unison and sweep below the operator's sightline, enhancing visibility in any weather.
- Optional integrated smart cameras and views provide a comprehensive view of the machine and surroundings.

Enhance Quality and Productivity with Technology

- Integrate available technologies from factory with options for grading and managing your fleet to optimize your productivity.
- Go mastless with the optional 3D Mastless Cat Grade technology that eliminates masts in line of sight for a direct view of the moldboard at work.
- Get real-time information from Cat equipment management options such as VisionLink[™], Cat Remove Services, and Cat Inspect.
- Cat Grade with Cross Slope Assist auto-controls one blade side, which can boost efficiency up to 50% and cut material by up to 40%.



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Choices

- Make your circle do the work. Lever configurations come with the standard bottom-adjust circle, while joystick configurations come with standard top-adjust circle. Upgrade to the High Performance Circle to eliminate hours of planned maintenance and downtime.
- The Next Generation 140 motor grader offers lever and steering wheel configuration or joystick configuration to match operator preference.
- Choose standard or all-wheel drive (AWD) powertrain.
- Increase your productivity and profit with Cat attachments designed to fit the 140 motor grader for improved performance, safety, and stability.

Engineered for Uptime

- Save time on daily checks with ground-level grouped filters.
- Engine compartment doors swing wide, and side doors are removable to access service points.
- Return to work faster with ground-level fueling. The fuel tank is integrated into the front chassis for improved tank protection and better center of gravity.
- Get more work done in less time utilizing optional Attachment Ready Option (ARO) on lever configurations and ARO with Cross Slope Assist on joystick configurations. E-fence prevents machine damage.
- New 9-speed transmission with additional finish gear gives a smooth operation in final passes and curbs.

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
OPERATOR ENVIRONMENT			POWERTRAIN		
Seat belt	✓		Cat® C7.1	✓	
Seat belt w/ indicator		✓	Eco mode	✓	
Seat, air suspension	✓		Transmission with autoshift		✓
Seat, premium heated and ventilated		✓	High-speed engine oil drain		✓
Wipers, front	✓		Ecology drain	✓	
Wipers, rear and door		✓	Cold weather packages		✓
Screen, rear sun shade	✓		Engine idle shutdown	✓	
Cellphone holder	✓		All-Wheel Drive (AWD)		✓
Cup holder	✓		SAFETY		
Cab storage	✓		Back-up alarm	✓	
Lights, dome interior	✓		Cameras		✓
Rollover protective structure (ROPS)/falling objects protective structure (FOPS)	✓		Grab rails and tandem walkways	✓	
Fans, defrost		✓	Hydraulic brakes	✓	
Heating/cooling cab system	✓		Manual lock out		✓
Radio ready		✓	Parking brake	✓	
AM/FM, Bluetooth®, Weatherband		✓	Rearview mirror	✓	
CB radio with converter		✓	Side view mirrors		✓
Satellite radio		✓	Signaling/warning horn		✓
TECHNOLOGY			Integrated hazard lights		✓
Digital blade slope meter		✓	ATTACHMENTS		
Attachment Ready Option (ARO)		✓	Lift groups		✓
Cross Slope Assist (2D)		✓	Counterweight		✓
Cat Grade 3D Ready w/Mastless (JOY)		✓	Push block		✓
Cat Grade 3D Mastless		✓	Mid-machine scarifier		✓
Rear Vision		✓	Rear ripper/scarifier		✓
Front Vision		✓	Front blade		✓
Surrounding Vision (360°)		✓	Snow wing		✓
Surrounding Vision (360°) w/People Detection		✓	Plows		✓
Stable Blade		✓	Tow hitch		✓
VisionLink™		✓	Grader Bit2 on 14 ft moldboard		✓
Security System	✓				
SERVICE AND MAINTENANCE					
Ground-level fuel fill	✓				
Grouped location for filters	✓				
Extended life coolant	✓				
Next generation fluid filters	✓				
Engine service light		✓			
Optional service light		✓			

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Technical Specifications

Powertrain

Engine Model	Cat® C7.1	
Emissions	Brazil MAR-1 emissions standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA	
Net Engine Power Range	103-169 kW	138-227 hp
Net Engine Power Range (AWD)	108-190 kW	145-255 hp
Displacement	7.01 L	427.8 in ³
Bore	105 mm	4.1 in
Stroke	135 mm	5.3 in
Torque Rise	26%	
Torque Rise (AWD)	23%	
Maximum Torque	1080 N·m	797 lbf·ft
Maximum Torque (AWD On)	1183 N·m	873 lbf·ft
Speed @ Rated Power	2,000 rpm	
Number of Cylinders	6	
Derating Altitude	4500 m	14,764 ft
Derating Altitude (AWD)	3000 m	9,843 ft

- Advertised power is tested per the specified standard in effect at the time of manufacture.
- Net power is tested per ISO 9249, SAE J1349, and EEC 80/1269 standards.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan at minimum speed, air intake system, exhaust system, and alternator.

Moldboard

Height (Cutting Edges + Moldboard)	556 mm	21.9 in
Width (Cutting Edges + Moldboard)	3658 mm	144.0 in
Thickness	22 mm	0.9 in
Arc Radius	413 mm	16.3 in
Throat Clearance, Non-HPC	119 mm	4.7 in

Weights

Base Weight – Lever Configuration, Non-AWD	16 627 kg	36,656 lb
Base Weight – Joystick Configuration, Non-AWD	16 999 kg	37,476 lb
Base Weight – Joystick Configuration, AWD	17 885 kg	39,430 lb
Typically Equipped Weight* – Lever Configuration, Non-AWD	18 648 kg	41,112 lb
Typically Equipped Weight* – Joystick Configuration, Non-AWD	18 940 kg	41,756 lb
Typically Equipped Weight* – Joystick Configuration, AWD	17 885 kg	39,430 lb

*Typically equipped operating weight is calculated with push block, transmission guard, rear ripper/scarifier, 14.0R24 tires with multi-piece (MP) rims, and other equipment.

Service Refill Capacities

Standard Circle Drive	7 L	1.8 gal
High Performance Circle Drive	9.5 L	2.5 gal
Cooling System	54 L	14.3 gal
Engine Crankcase	20 L	5.3 gal
Fuel Tank	371 L	98.0 gal
Hydraulic System	123 L	32.5 gal
Tandem Housing (each)	70 L	18.5 gal
Transmission and Differential	60 L	15.9 gal

Air Conditioning System

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).



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.

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AEXQ4629-01 (05-2026)
Build Number 16A
(Aus-NZ, Afr-ME, China, Eurasia,
S Am, Indonesia, India, Taiwan)

