



Cat[®] 140

Motor Grader

The Cat[®] 140 Motor Grader combines technology and lever controls for high performance. Integrated technology, such as Cat Grade with Cross Slope and Stable Blade options, ensures optimal grade for any project. The new cab offers increased comfort and ergonomically designed, adjustable control console. Reduce up to 10 percent fuel consumption by using ECO Mode.

Increased Machine Performance with Lever Controls

- Prefer a motor grader with steering wheel and levers? The 140 uses Caterpillar's 45 years of lever and steering wheel controls design experience to provide you with the control option you prefer.
- Save up to 40 percent in material with the Cat Grade Cross Slope feature. Monitor Cross Slope information from the machine display.
- Optimized machine balance ensures maximum drawbar power to the ground.
- Don't let the snow stop you from working. The all-wheel drive (AWD) option assists with traction and maneuvering the machine.
- Each machine is equipped with the Cat C9.3 engine for power and reliability.
- Save up to 10 percent on fuel consumption with ECO Mode.
- For your fine grade applications, the hydraulic system provides multifunction capability of up to seven simultaneous functions for superior performance.
- Reduce risk of impact damage with the standard circle drive slip clutch. It protects your circle drive and teeth.

Optimal Operator Comfort

- Adjust to your ideal comfort with the air suspension seat with multiple ergonomic adjustments.
- The rear camera option enhances visibility along with a heated lens to prevent snow buildup.
- The high capacity Heating, Ventilation and Air Conditioning (HVAC) system dehumidifies and pressurizes the cab, circulates fresh air, seals out dust and keeps windows clear.
- Add the communications radio mount to connect with your operators from the cab.

Enhance Efficiency and Productivity with Integrated Cat Technology

- Reduce your dependence on manual grade checking by using the Digital Blade Slope Meter.
- Cat Grade with Cross Slope Indicate option provides a real time readout of cross slope and can be scaled to Cat Grade with Cross Slope for automatic blade movement.
- Cat Grade Attachment Ready Option (ARO) ensures machine readiness for additional 2D/3D grade control technologies.
- Stable Blade senses blade bounce before the operator to reduce manual throttle use and site rework.
- Cat Production Measurement recommends gears and engine speed to improve fuel efficiency and maintain productivity.
- 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 job site efficiency with lower operating costs.
- Remote Services eliminates the need for technicians to connect to Electronic Technician (ET) to flash software updates to the machine.

Maintenance

- Filters, such as hydraulic oil, engine air, and Diesel Exhaust Fluid (DEF) filters, are grouped together for easy access and preventative maintenance.
- The new next generation filters offer up to 25 percent in reduced fluid and filter costs.
- Spend less time cleaning the cooling system with the reversing fan option, which reduces costs when cleaned once per week for more uptime.
- Maintain roads with the standard drawbar circle moldboard with hardened circle teeth for increased durability.
- For tight finish grading, consider the top adjust drawbar option for applications that require maximum accuracy. It offers up to 45 percent reduction in maintenance cost over the standard.



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Safety

- Depend on your brakes with maximum stopping power on all four rear wheels.
- View your work space with the rear camera option. It offers a rear view of the machine to ensure the safety of you and those around you. The dedicated display can be always on to ensure a safe work environment.
- In the event of an engine issue, your operators can count on the secondary steering system to stop the machine safely. It turns on automatically if the main pump pressure drops.
- Ground level refueling requires no climbing on the machine to fill the fuel tank.
- Ensure three points of contact when entering and exiting the machine with strategically placed walkways and grab rails.
- Work past sundown using the LED light option for increased nighttime visibility.

Versatility

- Ripper and Scarifier options are available.
- Improve the balance of your machine with the counterweight and push block for increased performance and efficiency.
- For snow applications, straight blades or v-plows added to the front lift keep roads clear.
- Plow through snow with the mast-type or mast-less snow wing attachment.
- For more road coverage, add a moldboard extension to add 600 mm (24 in).

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
CAB			ENGINE		
Vinyl Seat	✓		C9.3	✓	
Air Suspension Adjustable Seat		✓	Reversing Fan		✓
Information Display Screen	✓		ECO Mode	✓	
High-resolution 254 mm (10 in) Touchscreen		✓	All-Wheel Drive (AWD)		✓
Canopy		✓	DRAWBAR CIRCLE MOLDBOARD		
Base Cab	✓		Standard Drawbar Circle Moldboard	✓	
Entertainment Radio Ready	✓		Top Adjust Drawbar Circle Moldboard		✓
Cab Plus		✓	Circle Drive Slip Clutch	✓	
Rear Wiper		✓	Circle Saver		✓
Communication Radio Mounting		✓	SAFETY		
Rear Window Screen		✓	Rearview Mirror	✓	
Defrost Fans		✓	Rearview Camera		✓
HVAC	✓		Hydraulic Brakes	✓	
Rollover Protective Structure (ROPS), Standard Sound Suppression	✓		Cat Detect with Vision System		✓
Halogen Lighting	✓		Secondary Steering System	✓	
LED Lighting		✓	Signaling/Warning Horn	✓	
CAT CONNECT TECHNOLOGY			Side View Mirrors	✓	
Cat Grade with Cross Slope		✓	VERSATILITY		
Cat Grade Attachment Ready Option (ARO)		✓	Front Bolster	✓	
Cat Grade with Cross Slope Indicate		✓	Counterweight		✓
Digital Blade Slope Meter		✓	Push Block		✓
Stable Blade		✓	Front Lift Group		✓
Product Link	✓		Mast Type – Snow Wing		✓
Remote Services		✓	Mast-Less – Snow Wing		✓
			Ripper/Scarifier		✓
			Auxiliary Hydraulic Lines		✓
			Moldboard Extension		✓
			Front Blade		✓

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Technical Specifications

Engine

Engine Model	Cat C9.3	
Emissions	U.S. EPA Tier 4 Final/ EU Stage V	
Net Power		
ISO 9249/SAE J1349	186 kW	250 hp
EEC 80/1269	186 kW	250 hp
Base Net Power (1 st Gear)	132 kW	177 hp
Engine RPM	2,000	
Displacement	9.3 L	567.5 in ³
Bore	115 mm	4.5 in
Stroke	149 mm	5.9 in
Torque Rise – ISO 9294	40%	
Maximum Torque – ISO 9294	1121 N·m	827 lb·ft
Number of Cylinders	6	
Standard Capacity	43° C	109° F

Machine Weight

Weight*	19 198 kg	42,325 lb
All-Wheel Drive (AWD) Weight	20 236 kg	44,613 lb

*Typically equipped with push block and ripper.

Dimensions

Length of Machine*	10 100 mm	397.6 in
Maximum Height	3354 mm	132 in
Width	2480 mm	97.6 in
Basic Blade Width	3556 mm	140 in

*Typically equipped with push block and ripper.

Moldboard

Blade Width	3.7 m	12 ft
End Bit	152 mm	6.0 in
Cutting Edge	152 mm	6.0 in
Arc Radius	413 mm	16.3 in
Throat Clearance	166 mm	6.5 in

Blade Range

Circle Center Shift		
Right	728 mm	28.6 in
Left	752 mm	29.6 in
Moldboard Side Shift		
Right	512 mm	20.1 in
Left	663 mm	26.1 in
Blade Tip Range		
Forward	40°	
Backward	5°	
Maximum Shoulder Reach Outside of Tires		
Right	1928 mm	75.9 in
Left	1764 mm	69.4 in
Maximum Depth of Cut	735 mm	28.9 in
Maximum Lift Above Ground	480 mm	18.9 in

Service Refill

Fuel Tank	378 L	100 gal
Circle Drive	7 L	1.8 gal
Engine Crankcase	30 L	7.9 gal
Cooling System	57 L	15 gal
Hydraulic System	55 L	14.5 gal
DEF Tank	12.5 L	3.3 gal
Front Wheel Spindle Bearing (each)	0.5 L	0.13 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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