



Cat[®] 150

Motor Grader

The Cat[®] 150 motor grader delivers serious power for road maintenance, fine grading, and site preparation with strong traction and smoother finishes. Now with steering wheel and lever control or joystick control options, the 150 gives operators precise, comfortable control.

Engineered with You in Mind

- Fully redesigned cab – now equipped with a quieter, more powerful heating, ventilating, and air-conditioning (HVAC) system and new ergonomic seat adjustment options delivering superior comfort.
- Optional integrated rear and front cameras, immersive 360° vision, and People Detection technology help you stay aware of your surroundings.
- Enjoy superior sightlines with enhanced visibility from the operator station, giving operators a clearer view around the entire cab.

Built to Work Smarter

- Achieve stronger power to the ground with an engine built for consistent, reliable, and constant net power – no matter the conditions.
- Take on angled grading with greater reliability, thanks to heavier operating weight that holds the blade firm and consistent throughout the job.
- Enhanced power and upgraded finishing systems produce smoother and more refined surface quality, even in the most demanding conditions.

Choices

- The Next Generation 150 motor grader offers lever and steering wheel (LVR) configuration or joystick (JOY) 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 150 motor grader for improved performance, safety, and stability.
- Cat Equipment Management technologies work together to put equipment information at your fingertips. Get real-time access to information on every machine in your fleet on any jobsite – no matter the size of the operation or the brands of equipment you run.
- Reduce material usage with the full range of Cat Grade technologies for your motor grader, and reach target grade faster with dependable accuracy.



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Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
OPERATOR ENVIRONMENT			SERVICE AND MAINTENANCE		
Cab storage	✓		Engine service light	✓	
Cellphone holder	✓		Extended life coolant	✓	
Cup holder	✓		Ground-level DEF and fuel fill	✓	
Heating, ventilation, and air conditioning	✓		Grouped location for engine oil and fuel filters	✓	
Lights, dome interior	✓		Next generation fluid filters	✓	
Radio ready (JOY)	✓		POWERTRAIN		
CB radio mount bracket with converter		✓	Cat C9.3	✓	
AM/FM, Bluetooth®, Weatherband		✓	Cold weather package		✓
Satellite radio		✓	Eco mode	✓	
Rollover protective structure (ROPS)/falling objects protective structure (FOPS)	✓		Ecology drain	✓	
Screen, rear sun shade		✓	Engine idle shutdown	✓	
Seat belt	✓		High-speed engine oil drain		✓
Seat belt w/indicator		✓	Transmission, 9-speed	✓	
Seat, air suspension	✓				
Seat, premium heated and ventilated		✓			
Wipers, front upper window, door (LVR)		✓			
Wipers, front, door (JOY)	✓				
Wipers, rear (LVR)		✓			
Wipers, side windows, rear (JOY)		✓			
TECHNOLOGY					
ARO (LVR)	✓				
Cat Grade 3D Ready Plus (JOY)		✓			
Cat Grade 3D Ready w/Mastless		✓			
Cross Slope Assist (2D) (LVR)		✓			
Cross Slope Assist: E-Fence, Autoarticulation, Cross Slope (2D) (JOY)	✓				
Digital blade slope meter (LVR)		✓			
Front Vision		✓			
Rear Vision		✓			
Security System	✓				
Stable Blade		✓			
Surround Vision (360°)		✓			
Surround Vision (360°) w/People Detect		✓			
VisionLink™		✓			

(continued on next page)

Standard and Optional Equipment *(continued)*

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

	Standard	Optional		Standard	Optional
SAFETY			ATTACHMENTS		
Back-up alarm	✓		Angling plow		✓
Signaling/warning horn	✓		Brooms		✓
Grab rails and tandem walkways	✓		Counterweight		✓
Hydraulic brakes	✓		Front blade, narrow		✓
Lockout, hydraulic		✓	Front blade, standard		✓
Parking brake	✓		Lift groups		✓
Mirror, rearview	✓		Mid-machine scarifier (MMS)		✓
Mirrors, side view		✓	One-way plow		✓
			Push block		✓
			Rear ripper/scarifier		✓
			Snow wing		✓
			Straight plow		✓
			Tow hitch		✓
			Trip edge plow		✓
			U-V plow		✓
			V-Plow		✓

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Technical Specifications

Powertrain

Engine Model	Cat® C9.3B	
Emissions	Meets U.S. EPA Tier 4 Final, EU Stage V emission standards	
Net Engine Power Range	99-186 kW	133-249 hp
Net Engine Power Range (AWD)	104-197 kW	139-264 hp
Displacement	9.3 L	2.5 gal
Bore	115 mm	4.5 in
Stroke	149 mm	5.9 in
Torque Rise	38%	
Torque Rise (AWD)	35%	
Maximum Torque	1251 N·m	922.7 lbf·ft
Maximum Torque (AWD On)	1359 N·m	1,002.2 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.

Weights

Base Weight – Lever Configuration, Non-AWD	19 229 kg	37,984 lb
Base Weight – Lever Configuration, AWD	18 216 kg	40,160 lb
Base Weight – Joystick Configuration, Non-AWD	17 474 kg	38,523 lb
Base Weight – Joystick Configuration, AWD	18 389 kg	40,541 lb
Typically Equipped Weight* – Lever Configuration, Non-AWD	19 430 kg	42,836 lb
Typically Equipped Weight* – Lever Configuration, AWD	20 417 kg	45,012 lb
Typically Equipped Weight* – Joystick Configuration, Non-AWD	19 668 kg	43,360 lb
Typically Equipped Weight* – Joystick Configuration, AWD	20 588 kg	45,389 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.

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

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
Diesel Exhaust Fluid Tank	17 L	4.5 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 1.6 kg (3.5 lb) of refrigerant which has a CO₂ equivalent of 2.288 metric tonnes (2.521 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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