

150

MOTOR GRADER



Engine Power
Operating Weight

149-188 kW (200-252 hp)
19 935 kg (43,950 lb)

Cat® C9.3 engine meets U.S. EPA Tier 4 Final and EU Stage V emission standards.



THE CAT[®] 150

GRADING GREATER LENGTHS

The Cat[®] 150 Motor Grader gives you more precise grading in a comfortable cab. With a range of technology options, you can improve grading accuracy and save on materials. With extended maintenance intervals, the 150 Motor Grader sets the pace for low operating costs, while maintaining productivity and efficiency.



GET TO BETTER GRADE

The Cat 150 Motor Grader combines comfort, precision and Cat Grade technology options for high performance.

- + SPEND LESS TIME AND MONEY ON REGULAR MAINTENANCE
- + MAXIMUM CAB COMFORT
- + FACTORY-INTEGRATED GRADE TECHNOLOGY OPTIONS



VERSATILE AND SCALABLE IN MANY APPLICATIONS

Works well for light construction to heavy snow removal with its heavier base weight to conquer tough applications. Scalable Cat® Grade technologies provide accuracy and consistency.

CAB DESIGNED FOR MAXIMUM COMFORT

Be productive and comfortable with joystick controls, adjustable seat options, and heating and cooling capabilities.

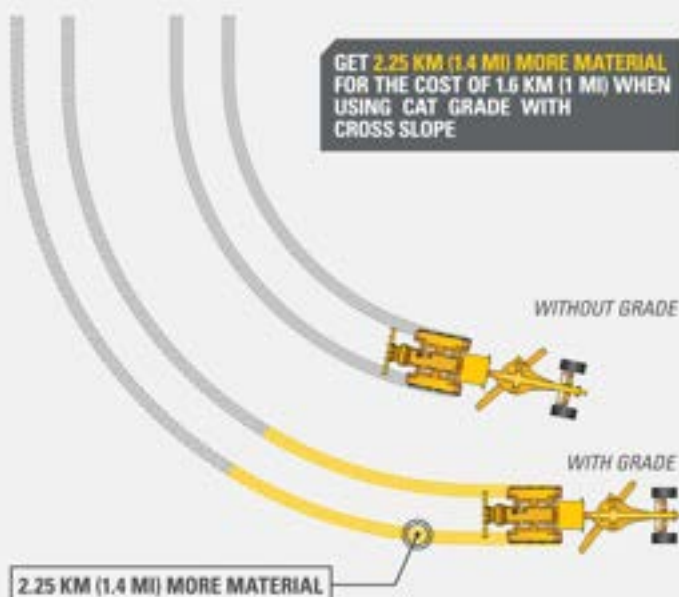
RELIABLE PERFORMANCE

Optional AWD assists with traction and maneuverability with hydraulic controls and systems to create precise and consistent blade movement.



SAVE MORE MATERIAL.

Use less material with Cat® Grade with Cross Slope.



SCENARIO:

1500 M³/KM (2,038 YD³/MI) MOVED WITH NON-GRADE – 324 M³/KM (4,208 YD³/MI) MOVED WITH GRADE = 635 M³/KM (831 YD³/MI) MATERIAL SAVED

CAT EQUIPMENT MANAGEMENT TECHNOLOGY

TAKES THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

Cat Equipment Management Technology telematics technology helps take the complexity out of managing your jobsites by gathering data generated by your equipment, materials and people and serving it up to you in customizable formats.

PRODUCT LINK™

Product Link™ collects data automatically and accurately from your assets – any type and any brand. Information such as location, hours, fuel usage, productivity, idle time, maintenance alerts, diagnostic codes and machine health can be viewed online through web and mobile applications.



VISIONLINK®

Access information anytime, anywhere with VisionLink® – and use it to make informed decisions that boost productivity, lower costs, simplify maintenance and improve safety and security on your jobsite. With different subscription level options, your Cat dealer can help you configure exactly what you need to connect your fleet and manage your business without paying for extras you don't want. Subscriptions are available with cellular or satellite reporting or both.



Remote Services is a suite of technologies that improves your jobsite efficiency.

Remote Troubleshoot allows your Cat dealer to perform diagnostic testing on your connected machine remotely, pinpointing potential issues while the machine is in operation. Remote Troubleshoot helps ensure the technician arrives with the correct parts and tools the first time, eliminating additional trips to save you time and money.

Remote Flash updates onboard software to potentially reduce update time by as much as 50 percent. You can initiate the update when convenient, increasing your overall operating efficiency.



USE LESS MATERIAL

WITH CAT GRADE TECHNOLOGY



CAT GRADE 3D READY

The Cat 150 is equipped with 2D Cross Slope Assist and E-fence and comes ready to upgrade to Cat Grade 3D. All antennas and a TD450 grade display are included, but radio equipment and licenses appropriate to your location will be required to use the full integrated Cat Grade 3D. Talk to your Cat dealer about upgrading Cat Grade 3D Ready to Cat Grade 3D.

CAT GRADE 3D

The Cat Grade 3D control system uses GPS-guided automated blade movements to help operators get to grade faster with improved accuracy, efficiency, and productivity. This requires fewer operator inputs, reducing fatigue and the number of passes needed.

Accurate to within 0.1 feet (3 cm)*, Cat Grade 3D features an intuitive touchscreen interface that puts the design plan right in front of the operator. Controls are integrated into the joystick for easy operation. Operators simply engage automatic controls, lower the blade, steer to smoothly cut to plan, and raise to disengage; no additional input is required. There's no need for grade checking or stakes to follow, letting you save on labor costs and enhance jobsite safety with fewer people needed on the ground.

CAT GRADE ATTACHMENT READY OPTION (ARO)

The sensor-ready mounts included in the Attachment Ready Option (ARO) help you get the most out of your motor grader. It makes it even easier for you to install Cat Grade 3D and integrates easily with other grade control systems. ARO includes a moldboard side shift Position Sensing Cylinder (PSC) designed to work with Cat Grade 3D and laser and Universal Total Station (UTS) mounts.

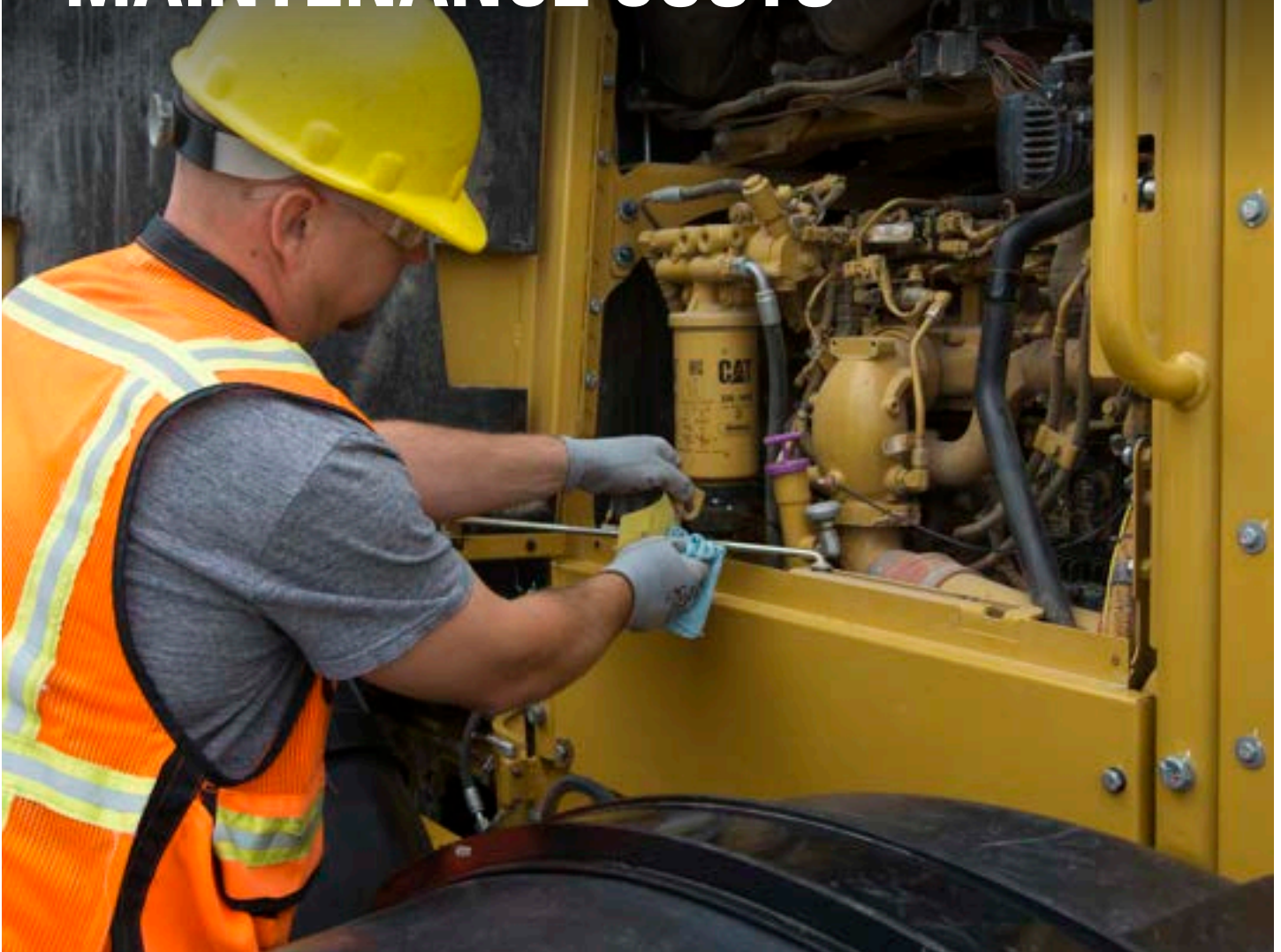
CAT GRADE CROSS SLOPE ASSIST

For every 0.5% deviation from the target slope, material quantities can increase by 20%. Cross Slope helps operators stay on target by automatically controlling one side of the blade, increasing efficiency and productivity up to 50%. This not only allows operators to do more in the same amount of time and reduce the number of passes, but also lowers fuel consumption and reduces material usage by up to 40%.

Cross Slope Assist includes E-Fence, allowing you to increase safety and avoid costly downtime and jobsite fines. It uses position sensors to automatically stop motion if the front linkage of the grader strays outside a predefined work area. This keeps the machine from moving into areas where it might endanger site workers, damage items, or be damaged itself. Operators can set the fence boundaries and go to work with more confidence and less stress.

LOWER

MAINTENANCE COSTS



GROUPED FILTERS

Filters reduce costs and are grouped together for easy access and preventative maintenance. With less waste, the filters are more environmentally friendly.

LONGER SERVICE INTERVALS

Maintenance intervals are synchronized to reduce downtime. Instead of changing filters every 500 hours, filters are changed at 1,000 hours.

GROUND-LEVEL FLUID FILL

Ground-level fluid filling reduces the need to climb onto the machine. With Eco mode, you can save up to 10% in fuel consumption. Combine that with a large fuel capacity, and you can work longer without the need to refuel.

FEEL THE CONTROL AND POWER WITH THE ALL-WHEEL DRIVE OPTION

Providing maximum power of 203 kW (272 hp) and full power turns, the all-wheel drive option helps you get the best footing.



MAXIMUM TRACTION WITH ALL-WHEEL DRIVE

The all-wheel drive (AWD) option assists with traction and maneuvering the machine, so you can work in any environment. The increased power with all-wheel drive handles rough terrain with extra traction for better productivity.

JOYSTICK CONTROLS

Joystick controls help to reduce effort and strain on your body while offering up to 78% less arm movement to help reduce fatigue.

ISO-CERTIFIED ROPS

The ISO-certified rollover protective structure (ROPS) cab is sound suppressed and sealed. The high-capacity HVAC system dehumidifies and pressurizes the cab, circulates fresh air, seals out dust and keeps windows clear.

COMFORTABLE CAB

Optional air suspension seat features multiple ergonomic adjustments, allowing you to find your ideal comfort level. Convenience features include radio, cup and bottle holders and ample storage.

ADJUSTABLE OPTIONS

COMFORT WHERE IT COUNTS





CONVENIENT SETTINGS

Get all the settings information you need, including integrated technology options, on the information display screen.



ENHANCED VISIBILITY

With angled windows and rear- and side-view mirrors, you can see the jobsite all around you. The rearview camera option offers a wide view of the rear of the machine to get the best visibility.



STOP SAFELY

If the engine should unexpectedly stall, you can count on the secondary steering system to stop the machine safely. When the main pump pressure drops, the secondary steering system will turn on automatically.



EASY ON AND OFF

Work safely using three points of contact when entering and exiting the machine with strategically placed walkways and grab rails.

The 150 Motor Grader is equipped with the six-cylinder Cat C9.3 engine for power and reliability. Optimized power in all gears helps to get the job done.

PROVEN POWER AND RELIABILITY **ELEVATE YOUR PERFORMANCE**



REDUCE COOLING SYSTEM CLEANING

The reversing fan option helps reduce maintenance costs by preventing material from building up and blocking air flow by the rear door intake screen in high-debris applications. The reversing fan runs automatically.

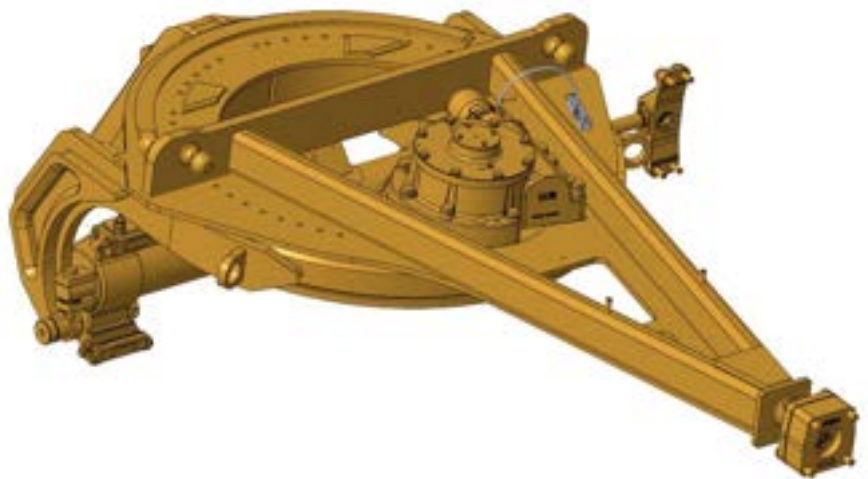


Keep your circle moldboard tight for grade precision throughout the motor grader's life. Durable structures with drawbar circle moldboard adjustments save you service time with replaceable wear inserts with standard or top adjust options.

HIGH PERFORMANCE CIRCLE

The optional high performance circle (HPC) for the Cat 150 Motor Grader improves machine performance, efficiency and uptime availability.

- + When paired with Cat-exclusive extended life blade rail wear strips, the HPC reduces total cost of ownership for the drawbar circle moldboard and downtime.
- + The HPC helps to eliminate hours of monthly planned maintenance for frequent inspection, wear strip replacement and circle shoe adjustments associated with conventional circles.



SEE YOUR INVESTMENT GO FURTHER DESIGNED TO LAST

MAXIMIZE COMPONENT LIFE

Reduce daily greasing requirements with your machine's circle saver. The grease fitting is easy to access and maintain. Always keep your circle drive pinion greased with the Cat Circle Saver for maximum life.

REDUCE DAMAGE

Keep your machine running smoothly with optional guarding in demanding applications. Guards defend against potential damage while running the machine for your transmission, filter, front axles and hydraulic pumps.

PRESERVE YOUR MACHINE

Protect your pinion drive and circle teeth from damage with the circle drive slip clutch. The standard slip clutch minimizes damage to machine or obstacles that the moldboard contacts.



MOVE MORE WITH CAT ATTACHMENTS



FRONT LIFT GROUP



SCARIFIER



MASTLESS SNOW WING



STRAIGHT BLADE



V-PLOW

ENHANCE YOUR PRODUCTIVITY

From rippers to plows, you can easily expand the versatility of your machine by utilizing a variety of Cat attachments. Each one is designed to fit your needs for improved performance, safety and stability.

TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

POWERTRAIN		
Engine Model	Cat C9.3	
Emissions	U.S. EPA Tier 4 Final/EU Stage V	
Net Engine Power Range	188 kW	252 hp
Net Engine Power Range - AWD	203 kW	272 hp
Displacement	9.3 L	567.5 in ³
Bore	115 mm	4.5 in
Stroke	149 mm	5.9 in
Torque Rise	39%	
Maximum Torque	1247 N·m	920 lbf·ft
Maximum Torque (AWD On)	1355 N·m	1,000 lbf·ft
Speed @ Rated Power	2,000 rpm	
Number of Cylinders	6	
Derating Altitude	3050 m	10,000 ft
<ul style="list-style-type: none"> • 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, aftertreatment, and alternator. • Advertised power is tested per the specified standard in effect at the time of manufacture. 		
WEIGHT		
Machine Weight*	19 935 kg	43,950 lb
Machine Weight (AWD)*	20 827 kg	45,917 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.		
DIMENSIONS		
Height of machine	3308 mm	130 in
Length of machine*	10 136 mm	399 in
* Typically equipped with counterweight and ripper.		

BLADE RANGE			
Circle Center Shift			
Right	728 mm	28.7 in	
Left	695 mm	27.4 in	
Moldboard Side Shift			
Right	660 mm	26.0 in	
Left	510 mm	20.1 in	
Maximum Blade Position Angle		90°	
Blade Tip Range			
Forward		40°	
Backward		5°	
Maximum Shoulder Reach Outside of Tires			
Right	1978 mm	89.7 in	
Left	1790 mm	82.3 in	
Maximum Lift Above Ground		480 mm	18.9 in
Maximum Depth of Cut		715 mm	28.1 in

SERVICE REFILL CAPACITIES		
Fuel Capacity	394 L	104 gal
Cooling System	57 L	15 gal
Hydraulic System		
Total	100 L	26.4 gal
Tank	64 L	16.9 gal
Engine Oil	30 L	7.9 gal
Trans./Diff./Final Drives	70 L	18.5 gal
Tandem Housing (Each)	76 L	20 gal
Front Wheel Spindle Bearing Housing	0.5 L	0.13 gal
Circle Drive Housing	7 L	1.8 gal
Diesel Exhaust Fluid	22 L	5.8 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.	
<ul style="list-style-type: none"> • If equipped with R134a (Global Warming Potential = 1430), the system contains 1.9 kg (4.2 lb) of refrigerant which has a CO₂ equivalent of 2.717 metric tonnes (2.994 tons). 	

STANDARD & OPTIONAL EQUIPMENT

Standard and optional equipment may vary. Consult your Cat® dealer for details. Not all options available in all regions.

POWERTRAIN	STANDARD	OPTIONAL
All wheel drive		•
Demand fan, hydraulic, no-tool swing out rear door	•	
Differential lock/unlock, automatic	•	
Economy mode	•	
Engine, C9.3	•	
Parking brake – multi-disc, sealed, oil-cooled	•	
Precleaner, snow		•
Transmission, autoshift		•
Reversing fan		•
Engine idle shutdown timer	•	
DRAWBAR CIRCLE MOLDBOARD	STANDARD	OPTIONAL
Top Adjust Drawbar, circle, and moldboard	•	
High Performance Circle (HPC)		•
Circle drive slip clutch	•	
Circle saver		•
OPERATOR ENVIRONMENT	STANDARD	OPTIONAL
Air conditioning with heater	•	
Articulation, automatic return-to-center	•	
Display, 10-inch LED with machine gear integration	•	
Rearview mirror	•	
Side-view mirrors		•
Rollover protective structure (ROPS) cab, sound suppressed 70 dB(A)	•	
Seat, cloth-covered, comfort suspension	•	

GUARDS	STANDARD	OPTIONAL
Articulation guard		•
Fenders, rear		•
Axle hose guard		•
Transmission guard		•
SAFETY AND SECURITY	STANDARD	OPTIONAL
Rearview camera		•
Secondary steering system	•	
Strategically placed walkways and grab rails	•	
Ground level fuel fill	•	
CAT TECHNOLOGY	STANDARD	OPTIONAL
Stable Blade		•
Product Link™	•	
Remote Services	•	
Cat Grade with Cross Slope		•
Cat Grade with Cross Slope Indicate		•
Cat Grade with 3D		•
Cat Grade Attachment Ready Option (ARO)		•
Auto Articulate	•	
Cat Production Measurement		•
ATTACHMENTS AVAILABLE FROM FACTORY	STANDARD	OPTIONAL
Push block		•
Ripper		•
Scarifier		•
Front lift group		•
High performance circle (HPC)		•
ADDITIONAL ATTACHMENTS	STANDARD	OPTIONAL
Snow Wings		•
Plows		•
Blades		•
Blade Extensions		•
Brooms		•

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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www.cat.com www.caterpillar.com

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