

The new Next Generation **Cat® 120** motor grader is built to fit your needs. From cab to controls, the options are in your hands, along with better fuel economy and lower maintenance costs to reduce overall operating costs.

# THE NEW CAT 120 THE NEXT GENERATION



# **GRADING THE ROAD AHEAD**

The new Cat 120 motor grader offers you total machine options including technology, controls, and cab to power through any job with the utmost performance.

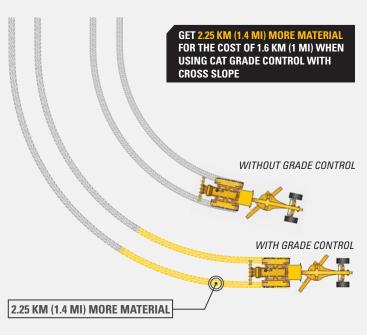
- + UP TO 15 PERCENT INCREASED FUEL ECONOMY WITH THE C7.1 ENGINE
- + NEXT GENERATION CAB OPTIONS FOR MAXIMUM COMFORT
- + SPEND LESS TIME AND MONEY ON REGULAR MAINTENANCE





# SAVE MORE MATERIAL.

Use 40% less material with Cat Grade Control with Cross Slope.



### SCENARIO:

1559 M³/KM (2,039 YD³/MI) MOVED WITH NON-GRADE CONTROL – 924 M²/KM (1,208 YD³/MI) MOVED WITH GRADE CONTROL = 635 M²/KM (831 YD³/MI) MATERIAL SAVED

# UP TO 15% BETTER FUEL ECONOMY<sup>1</sup>

Use less fuel with the Cat C7.1 Engine and ECO mode.

# CAB DESIGNED FOR MAXIMUM COMFORT

The next generation cab gives you control and comfort options to promote productivity.

# UP TO 15% LOWER MAINTENANCE COSTS<sup>1</sup>

Extend your maintenance intervals using the new filtration technology. Filters are grouped together for easy access.

 $<sup>^{\</sup>scriptscriptstyle 1}$  Compared to 120K and 120M2

# TAKES THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT CAT TECHNOLOGY

Cat LINK telematics technology helps take the complexity out of managing your job sites — by gathering data generated by your equipment, materials, and people — and serving it up to you in customizable formats.



# **CAT CONNECT**

Cat Connect technologies give you the edge you need to improve machine and operator efficiency while working safer.

# **№ 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 job site. 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.

# OPTIONAL CAT GRADE TECHNOLOGY



# **CROSS SLOPE**

Cat GRADE with Cross Slope saves you up to 40 percent in material. Cross Slope is an integrated system that enables you to achieve grade faster and more accurately by automating the cross slope of the blade and keeps your slope consistent.



### **CROSS SLOPE INDICATE**

Cat GRADE with Cross Slope Indicate shows cross slope information on the integrated machine display. Cross Slope Indicate improves grading efficiency by providing real-time cross slope to you without the added expense of equipment to automate blade functions.



### **DIGITAL BLADE SLOPE METER**

View blade slope on the integrated machine display with the Digital Blade Slope Meter. Reduce the need for manual grade checking to keep you and your worksite safer.



### **ADDITIONAL OPTIONS**

Cat GRADE with Attachment Ready Option (ARO) gives your machine the connections to add on future Cat GRADE or other grade control systems to help you get the most out of your motor grader. Stable Blade helps improve your finished surface quality by reducing machine bounce.





# **NEXT GENERATION FILTERS**

New filtration system makes changing filters a breeze. The filters inside the cartridge are replaced instead of the entire canister to save you up to 15 percent in costs.

# LONGER SERVICE INTERVALS

Reduce your typical operating expenses with extended engine oil, hydraulic, and transmission filter change cycles. The new filters last longer to keep your motor grader active on the job site.

# **GROUPED LOCATION**

Service your machine faster with the filters in a central location. Filters are grouped together for easy access so you can do preventative maintenance quickly and move on to the next task.

### GET THE CONTROL POWER THAT YOU NEED WITH THE ALL-WHEEL DRIVE OPTION

Providing maximum power up to 141 kW (189 hp) and full power turns, the all-wheel drive option helps keep your tires moving, even if it's muddy.



# MAXIMUM TRACTION WITH ALL-WHEEL DRIVE

The all-wheel drive (AWD) option assists with traction and maneuvering in loose material. The increased power with all-wheel drive handles rough terrain with extra traction for better productivity.

# CONTROL OPTIONS

Get the job done with a choice of joysticks or traditional steering wheel and lever controls. Integrated technology options put more productivity at your fingertips.

# IMPROVED VENTILATION

The ISO-certified ROPS cab is sealed to lock out noise. The heating and cooling system keeps you at your ideal temperature throughout the day.

# MULTIPLE CAB OPTIONS

Your cab is like your office. Choose the options that you want to work comfortably, like adjustable seats. Heated/cooled seat options are available.





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



## **EXTRAORDINARY VISIBILITY**

View your job site through connecting glass windows, rear and side view mirrors. Rearview camera option offers a wide view of the back of the machine for better visibility.





# **STOP SAFELY**

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



### **EASY ON AND OFF**

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

# **UP TO 15%**

# **BETTER FUEL ECONOMY**

Grade longer while using the same amount of fuel.

The Cat C7.1 engine uses up to 10 percent less fuel.

Couple this with ECO mode to save an additional 5 percent.

ECO mode is an easy selection in your information display screen. Less stopping means more production.

# WORK MORE... FUEL LESS

Get up to 15% Fuel Savings with the Next Generation Cat® 120 Motor Grader



### SCENARIO:

UP TO 15% SAVINGS COMPARISON IS BASED ON 120M AND 120K CAT MOTOR GRADERS.

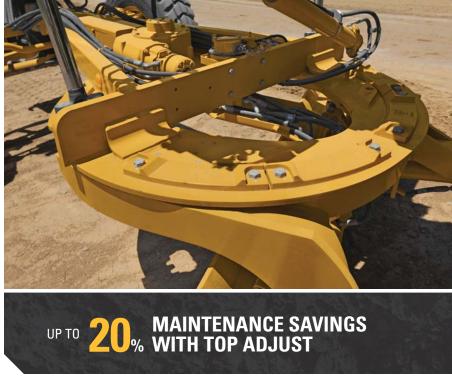




Keep your circle moldboard tight for precise grading throughout the motor grader's life. Durable structures with drawbar circle moldboard adjustments save you service time using replaceable wear inserts.

### **TOP ADJUST CIRCLE**

- + EASY ACCESS
- + MAXIMUM TIGHTNESS
- + REMOVABLE ACCESS PLATES



# SEE YOUR INVESTMENT GO FURTHER DESIGNED TO LAST

## **MAXIMIZE COMPONENT LIFE**

Reduce daily greasing requirements and costly repairs to your circle and pinion with the Circle Saver option. The grease fitting is easy to access and maintain.

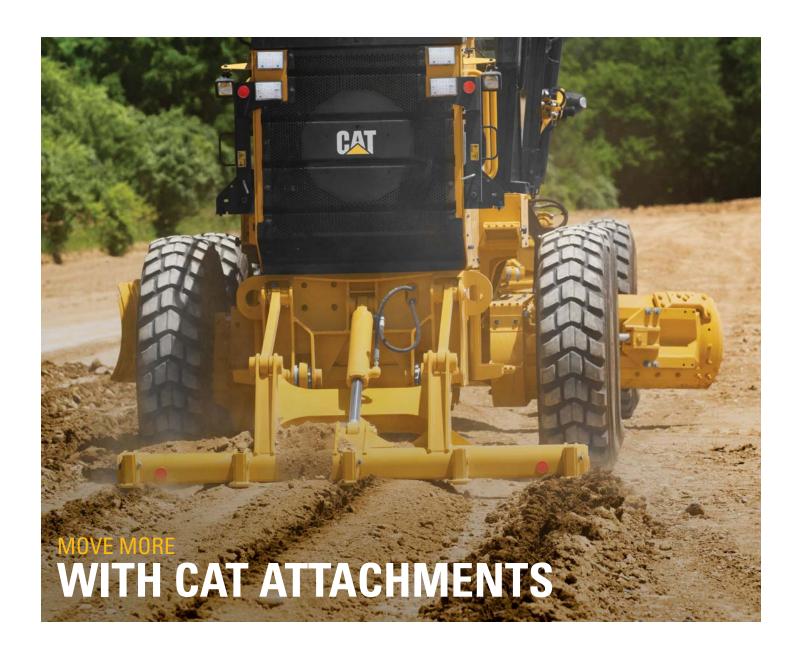
## PRESERVE YOUR MACHINE

The circle drive slip clutch protects your pinion drive and circle teeth from potential damage.

## REDUCE DAMAGE

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







### **ENHANCE YOUR PRODUCTIVITY**

From rippers to blades, 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.

POWER TRAIN				
Engine Model Cat C7.1				
China Nonroad Stage III and Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3/EU Stage IIIA				
Net Power ISO 9249/SAE J1349 EEC 80/1269	93 kW-116 kW 125 hp-156 hp			
All Wheel Drive Range – Net (Metric)	97 kW-129 kW 130 hp-173 hp			
Bore	105 mm 4.1 in			
Displacement	7.01 L 427.8 in <sup>3</sup>			
Stroke	135 mm 5.3 in			
Engine RPM	2,000 rpm			
Maximum Torque – ISO 9294	822 N·m 606 lbf-ft			
Top Forward Speed	48.3 km/h 30.1 mph			
Top Reverse Speed	38.1 km/h 23.7 mph			
Turning Radius, Outside Front Tires	7.4 m 291.3 in			
• Net Power is tested per ISO 9249, SAE J1349, and EEC 80/1269 Standards in effect at the time of manufacture.				
$\bullet$ The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.6 kg of refrigerant which has a CO $_2$ equivalent of 2.288 metric tonnes.				
WEIGHT				
Typically Equipped Machine Weight*				
Lever/Steering Wheel Weight	15 699 kg 34,610 lb			
Joystick Weight	15 824 kg 34,886 lb			
Lever/Steering Wheel All-Wheel Drive (AWD) Weight	16 454 kg 36,275 lb			
Joystick All-Wheel Drive (AWD) Weight	16 499 kg 36,374 lb			
*Typically equipped operating weight is calculated with full fuel tank, coolant, lubricants, operator, push block, transmission guard, rear ripper/scarifier, 14.0R24 tires on multi-piece rims, 3.7 m (12 ft) blade, and other equipment.				
and other equipment.				

SERVICE REFILL CAPACITIES				
Fuel Tank	246 L	65 gal		
Circle Drive	7 L	1.8 gal		
Engine Crankcase	18 L	4.8 gal		
Cooling System	52.5 L	14 gal		
Hydraulic System	97 L	25.6 gal		
Transmission and Differential	60 L	15.8 gal		
BLADE RANGE				
Circle Center Shift				
Right	656 mm	26 in		
Left	656 mm	26 in		
Moldboard Side Shift				
Right	510 mm	20.1 in		
Left	660 mm	26 in		
Blade Tip Range				
Forward		40°		
Backward		5°		
Maximum Shoulder Reach				
Right	1905 mm	75 in		
Left	1742 mm	68.6 in		
Maximum Lift Above Ground	410 mm	16.1 in		
Maximum Depth of Cut	775 mm	30.5 in		
MOLDBOARD				
Width	3.7	m 12 ft		
Height	610 mm	24 in		
End Bit	152 mm	6 in		
Cutting Edge	152 mm	6 in		
Arc Radius	413 mm	16.3 in		
Throat Clearance	120 mm	4.7 in		
DIMENSIONS				
Length of Machine*	9838 mm	387 in		
Maximum Height	3465 mm	136.4 in		
Width	2495 mm	98.2 in		
*Typically equipped with push block and ripper.				

# **CAB FEATURES**

FEATURE	DESCRIPTION	BASE	COMFORT PLUS	PREMIUM PLUS
ROPS	Sound Suppression	•	•	•
	Canopy	0	X	X
Seat	Mechanical Suspension	•	0	0
	Air Suspension	x	•	•
	Heated/Cooled	X	X	•
	Lumbar Support	x	•	•
HVAC	Heating, Ventilation, and Air Conditioning	•	•	•
	Defrost Fans	X	•	•
Information Display	Touchscreen	0	0	0
	Standard Display	0	0	0
Lighting	Halogen Bulbs	•	•	•
	LED Bulbs	0	0	0

 $\bullet - standard \quad \bigcirc - optional \quad \textbf{x} - not \ available$ 

# **STANDARD & OPTIONAL EQUIPMENT**

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

POWER TRAIN	STANDARD	OPTIONAL
Cat C7.1 Engine	•	
ECO Mode	•	
All-Wheel Drive (AWD)		•
50° C (122° F) Ambient Capacity	•	
Engine Idle Shutdown Timer	•	
Differential Lock	•	
CAB	STANDARD	OPTIONAL
ROPS	•	
Mechanical Suspension Seat	•	
Air Suspension Adjustable Seat		•
Canopy		•
Touchscreen Display	•	
Standard Information Display	•	
Adjustable Control Console (Levers)	•	
Entertainment Radio Ready	•	
Halogen Lighting	•	
LED Lighting		•
USB/Auxiliary Radio		•
CAT CONNECT TECHNOLOGY	STANDARD	OPTIONAL
Product Link*	•	
Cat GRADE with Digital Blade Slope Meter		•
Cat GRADE with Cross Slope Indicate		•
Cat GRADE with Cross Slope		•
Cat GRADE with Attachment Ready Option (ARO)		•
Stable Blade		•

\*Optional on Lever machines.

DRAWBAR CIRCLE MOLDBOARD	STANDARD	OPTIONAL
Standard Drawbar Circle Moldboard	•	
Top Adjust Drawbar Circle Moldboard		•
Circle Drive Slip Clutch	•	
Circle Saver		•
SAFETY AND SECURITY	STANDARD	OPTIONAL
Rearview Mirror	•	
Side view Mirror	•	
Signaling/Warning Horn	•	
Secondary Steering System	•	
Rearview Camera		•
Hydraulic Brakes	•	
SERVICE AND MAINTENANCE	STANDARD	OPTIONAL
Grouped Location for Engine Oil and Fuel Filters	•	
Extended Life Coolant	•	
ATTACHMENTS	STANDARD	OPTIONAL
Push Block		•
Front Lift Group		•
Ripper		•
Scarifier		•
Mid Mount Scarifier		•
Front Blade		•



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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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AEXQ2489 Build Number: 14A