

14

MOTOR GRADER



Engine Power
Operating Weight

213 kW (286 hp)
25 968 kg (57,250 lb)



The Cat® 14 Motor Grader delivers powerful road grading with precision blade control, fuel efficiency, and smart technology. It's ideal for haul road maintenance, site preparation, and heavy-duty grading in rugged jobsites.

THE CAT® 14

Motor Grader



The 14 incorporates customer-driven and sustainability enhancements by increasing ease of operation, providing precision joystick control, delivering superior visibility, and building on a legacy of superior quality.

- + INTUITIVE JOYSTICK CONTROLS GIVE UNMATCHED COMFORT AND VISIBILITY
- + DESIGN FEATURES MAKE IT EASY TO MAINTAIN FACTORY TIGHTNESS FOR BETTER RESULTS
- + MAKE SMART USE OF TECHNOLOGY AND SERVICES TO HELP MONITOR AND ENHANCE THE JOBSITE



OPTIMIZED MACHINE PERFORMANCE

Built tough for large loads, the 14's balanced weight improves traction with a loaded blade, keeps ground speed steady under any load, and offers optional Cat Grade technology to help hit precise grading targets every time.

MAXIMIZE YOUR UPTIME

Drawbar, circle, and moldboard stay tight for smoother grading, while grouped filters and service points make upkeep quick. Engine and transmission backups help keep the machine running strong on tough jobs.

FOCUS ON OPERATOR SAFETY

Safety comes first with an operator-presence monitor that helps stop unintended movement, clear camera views around the machine, and speed-sensitive follow steering that keeps control smooth and steady at any speed.

ENGINEERED FOR RELIABILITY. DESIGNED FOR EFFICIENCY.

RELIABLE POWER, EVERY TIME

The Cat C13 engine delivers consistent grading speeds and dependable performance, ensuring maximum productivity on every job. With superior torque and lugging capability, it handles sudden load increases with ease.

OPTIMIZED VARIABLE HORSEPOWER (VHP)

Standard VHP technology adjusts power output across all gears, delivering just the right amount of power. This boosts efficiency and protects the machine's structure and drivetrain.

FUEL-SAVING ECO MODE

Eco mode enhances fuel efficiency by lowering high idle engine speed to around 1,750 rpm in working gears. Ideal for light to moderate loads, it can reduce fuel consumption especially in gears 3R to 5F.

CONSISTENT POWER TO THE GROUND

Automatically adjusting engine power based on gear selection, this feature ensures optimal performance across a wide range of temperatures. You get reliable, consistent power in all your heavy-duty applications.



ENGINE PERFORMANCE
THAT POWERS PRODUCTIVITY

RUN AT PEAK PERFORMANCE

With its modular component design, you can swap parts quickly and keep surrounding systems untouched – minimizing downtime and maximizing productivity.



Grouped service points reduce downtime, while ground-level access makes maintenance faster and safer. With built-in scheduling tools, you can spot issues early and keep your machine performing at its best.

MAXIMUM UPTIME **SCHEDULED MAINTENANCE INTERVALS**

STAY AWARE.

STAY PROTECTED. STAY PRODUCTIVE.



ENHANCED REAR VISIBILITY

Boost operator awareness with optional visibility technology designed for demanding work environments. Rear vision camera (optional) improves sightlines to the rear of the machine, helping operators work more confidently in tight areas.

OPERATOR SAFETY SYSTEMS

Built-in safeguards ensure the machine is safe, responsive, and operator-ready before work begins. Ground-level access provides quick and safe accessibility, the operator presence system keeps the parking brake engaged and disables functions until the operator is seated properly, and the optional seat belt indicator encourages consistent use of the seat belt.

HYDRAULIC AND CONTROL SECURITY

Designed to help operators maintain control in both jobsite and travel scenarios. The hydraulic lockout system disables all implement functions while maintaining full steering control, ideal for roading between jobsites.

DESIGNED FOR OPERATORS

Intuitive joystick controls reduce hand and arm movement by up to 78% over steering wheel and lever controls to help minimize operator fatigue and support smoother operation.

COMBINED CONTROLS FOR TOTAL CONTROL

Optional Advanced Control Joysticks let operators manage automated grading technologies without ever removing their hands from the controls – improving precision, efficiency, and safety on the job.

ADJUST BLADE LIFT TO TASK

Selectable blade lift modes – Fine, Normal, or Coarse – allow operators to match performance to the task. With the touch of a button, Articulation Return-to-Center brings the machine back to a straight frame position for faster, more confident maneuvering.

EASE OF OPERATION



REAL-TIME INFORMATION FROM CAT EQUIPMENT MANAGEMENT TAKES THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

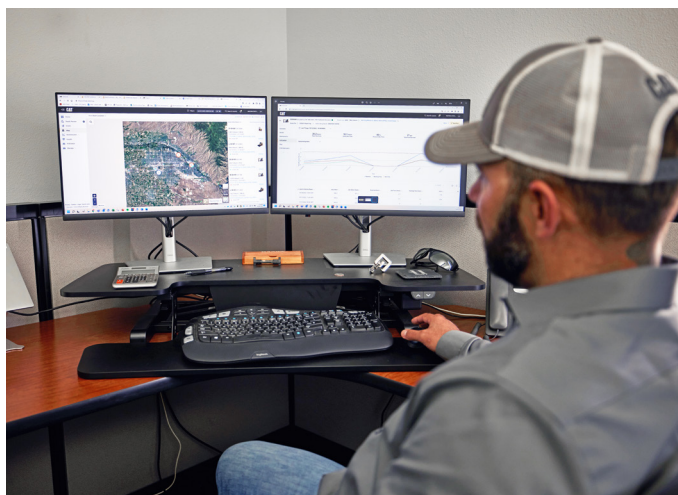
Cat Equipment Management technologies work together to put equipment information at your fingertips. Get real-time access to information on every machine in your fleet on any jobsite – no matter the size of the operation or the brands of equipment you run.



VISIONLINK™

Gather and summarize machine telematics and jobsite data from all your equipment – regardless of the manufacturer.* View actionable information such as idle time, fuel burn, location, total cycles, and more to improve machine efficiency, productivity, and utilization. Access data anywhere via a mobile, tablet, or desktop device – on or off the jobsite.

*Data field availability can vary by equipment manufacturer. VisionLink™ subscription required. Availability may vary by region. Consult your Cat dealer for more details.



CAT REMOTE SERVICES*

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 troubleshooting helps to ensure the technician arrives with the correct parts and tools the first time, eliminating additional trips, to save you time and money.
- + Remote Flash allows you to update onboard software without a technician being present, allowing you to initiate software updates when convenient, increasing your overall operating efficiency.
- + Operator ID requires operators to log in via Passcode or Bluetooth® (Cat Key Fob) at machine startup, helping to deter theft, vandalism, and unauthorized use. It saves settings from the last time an operator was logged in and maintains profiles that were retained during machine software flash updates. Operator IDs are easily managed through the touchscreen and can also be managed remotely and uploaded to the machine through VisionLink.

*Must be within cell range coverage.



CAT INSPECT

Cat Inspect is a mobile application that allows you to easily perform digital preventative maintenance checks, inspections, and daily walkarounds. The app includes machine-specific Preventive Maintenance (PM) checklists to perform service intervals as recommended in the Operation and Maintenance Manual. Inspections can easily be integrated with other Cat data systems like VisionLink, so you can keep a close eye on your fleet.

CAT GRADE ATTACHMENT READY OPTION (ARO)

The ARO makes it easier to upgrade your machine. It includes sensor-ready mounts that simplify installing Cat Grade 3D and other grade control technologies. ARO also features a Position Sensing Cylinder (PSC) for moldboard side shift and mounts for laser, sonic, and Universal Total Station (UTS).

CAT GRADE 3D READY

The Cat 14 joystick configuration includes helpful features like 2D Cross Slope Assist and E-fence safety boundaries. It's ready for a Cat 3D Grade upgrade and comes with the necessary antennas and display. To use the full 3D system, you'll need extra radio gear and local licenses. For help with upgrading, contact your Cat dealer.

CAT GRADE WITH CROSS SLOPE ASSIST

Even a 0.5% slope deviation from target can raise material use by 20%. 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%. E-fence (joystick configuration only) adds safety by stopping motion if the machine moves outside its set limits.

CAT GRADE 3D

Cat Grade 3D uses a Global Navigation Satellite System (GNSS) to automate blade movement, helping operators grade faster with better accuracy and less effort. The intuitive touchscreen shows the design plan, and controls are built into the joysticks or levers. No stakes or grade checks equal improved safety.



ADVANCED MACHINE CONTROL WITH **PRECISION AND PREDICTABILITY**

Hydraulic control gives motor graders smooth, precise, and responsive blade movement for superior grading performance. Providing strong, reliable lifting and steering power, hydraulic control allows multiple functions to operate at once.



LOAD-SENSING HYDRAULICS

Our load-sensing system with PPPC valves delivers precise implement control and smooth, predictable movement. It balances hydraulic flow for simultaneous implement use while reducing heat and lowering power consumption.

EFFORTLESS BLADE FLOAT

The blade float function allows the blade to move freely under its own weight, enabling it to follow road contours when both cylinders are floated, or allowing the blade toe to track a hard surface while the operator maintains slope control with the opposite lift cylinder when only one cylinder is floated.

INDEPENDENT OIL SUPPLY

Large, dedicated hydraulic oil reservoirs prevent cross-contamination, improve cooling efficiency, reduce heat buildup, and extend the life of critical hydraulic components.

MORE THAN CUSTOMER VALUE AGREEMENTS

BUILT AROUND YOUR SUCCESS

When you buy Cat equipment, you get so much more than the machine. You also get the support of a best-in-class dealer network, backed by a range of flexible solutions, technology, tools, and more.



CUSTOMER VALUE AGREEMENTS

A Customer Value Agreement (CVA) from your Cat dealer helps you do more and worry less. A CVA simplifies machine ownership and maintenance, adds the security of expert dealer support, and gives you peace of mind from effective equipment health management.

REPAIR OPTIONS

A broad range of repair options gives you choices that work with your needs, budget, and timeline. Every repair is performed by expert Cat technicians. You'll receive smart repair advice, a timely, accurate quote, and service that gets your machine back into action quickly.

GENUINE CAT PARTS

Genuine Cat parts deliver the highest level of reliability and productivity. Order direct from your Cat dealer or shop online at parts.cat.com.

FINANCIAL SERVICES

Count on Cat Financial to provide the best finance and extended protection solutions for your business. For more than 30 years, we have helped our customers succeed through financial service excellence.

GET BACK TO WORK

Services to help you save time, save money, and get back on the job.

CAT INSPECT

Access your equipment data on your mobile device. This easy-to-use app lets you capture inspection data and integrates with your other Cat data systems, so you can keep a close eye on your fleet.

HYDRAULICS AND HOSE

Whether you choose new, Cat Reman, exchange, or rebuilt hydraulic components, you'll get expert diagnostics, testing, and contamination control. Cat Hose Service offers hoses and couplings for most makes and models.

CERTIFIED REBUILD

Get a full second machine life at a fraction of the cost of buying new. With upgraded features, safety enhancements, and the latest technologies, your old machine will perform even better than it did when it rolled off the line.

DEMANDING APPLICATIONS REQUIRE THE RIGHT TOOLS

Using the correct motor grader attachments – such as rippers, blade extensions, and front blades – improves performance for grading, cutting, and leveling. Ensure all attachments are securely mounted and properly maintained for safe, efficient operation.



CUSTOMIZE TO THE JOBSITE **PRODUCTIVE RESULTS**

Cat attachments are engineered to be as tough and dependable as the machines they pair with, delivering exceptional performance even in the most demanding conditions. Designed for seamless compatibility, they help you accomplish more with less downtime – boosting productivity and efficiency wherever the job takes you.

TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

POWERTRAIN		
Engine Model	Cat® C13	
Emissions	The Cat C13 engine is available in multiple options. Meets U.S. EPA Tier 4 Final and/or EU Stage V emission standards; Meets UN ECE R96 Stage IIIA and Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA; Non-certified configuration, emitting equivalent to U.S. EPA Tier 2.	
Net Engine Power Range		
ISO 9249	0 - 213 kW	0 - 286 hp
Bore	130 mm	5.1 in
Stroke	157 mm	6.2 in
Displacement	12.5 L	3.3 gal
Torque Rise	50%	
Maximum Torque	822 N•m	184.8 lbf
Rated Speed	1,850 rpm	
Number of Cylinders	6	
Idle Speed		
High Idle Speed	1,975 rpm	
Low Idle Speed	830 rpm	
Maximum Altitude at Full Power	4237 m	13,900 ft
Maximum Altitude at Full Power (Tier 3)	4374 m	14,349 ft

- Advertised power is tested per the specified standard in effect at the time of manufacture.
- Net power available at the flywheel when the engine is equipped with fan, air cleaner, aftertreatment, and alternator with engine speed at 1,850 rpm.

WEIGHT		
Operating Weight		
Weight, Typically Equipped	25 968 kg	57,250 lb
Front Axle	6914 kg	15,243 lb
Rear Axle	19 053 kg	42,005 lb

*Operating weight based on typically equipped machine, 20.5R25 tires, 90 kg operator, full fluids.

SERVICE REFILL CAPACITIES		
Standard Circle Drive	10 L	2.6 gal
Cooling System	60 L	15.9 gal
Diesel Exhaust Fluid (DEF)*	22 L	5.8 gal
Engine Crankcase	30 L	7.9 gal
Fuel Tank	416 L	109.9 gal
Hydraulic System	60 L	15.9 gal
Tandem Housing (each)	100 L	26.4 gal
Transmission and Differential	89 L	23.5 gal

*Tier 4 Final/Stage V machines only

MOLDBOARD		
Moldboard (Size)	14 ft Moldboard	
Height	584.7 mm	23.0 in
Width	4166 mm	14.0 ft
Thickness	25.4 mm	1.0 in
Arc Radius	413 mm	16.3 in
Throat Clearance	117 mm	4.6 in

BLADE RANGE		
Circle Center Shift		
Left	650 mm	25.6 in
Right	520 mm	20.5 in
Moldboard Side Shift		
Left	790 mm	31.1 in
Right	742 mm	29.2 in
Maximum Blade Tip		
Forward	40°	
Rear	5°	
Maximum Lift Above Ground	419 mm	16.5 in
Maximum Depth of Cut	593 mm	23.3 in

DIMENSIONS		
Length – Front Tire to Rear of Machine	9600 mm	378.0 in
Maximum Height – with Attachments	3889 mm	153.1 in
Width – Outside Front Tires	3050 mm	120.1 in

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 2 kg (4.4 lb) of refrigerant which has a CO₂ equivalent of 2.860 metric tonnes (3.152 tons).	

STANDARD AND OPTIONAL EQUIPMENT

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

CAB	STANDARD	OPTIONAL
Air conditioner with heater	●	
Air horn		●
Center shift pin indicator	●	
Coat hook	●	
Cup holder	●	
Display, digital speed and gear	●	
Doors, left and right side with wiper	●	
Gauges (analog) inside cab (includes fuel, articulation, engine coolant temp, engine rpm, and hydraulic oil temp)	●	
Gauges, machine level	●	
Heated door		●
Joystick gear selection	●	
Joystick hydraulic controls for implements, steering, transmission	●	
Joystick, power adjustable armrests	●	
Ladders, cab, left and right side	●	
Lights, left and right side lights	●	
Lights, nighttime cab, LED	●	
Message display	●	
Meter, hour, digital	●	
Mirror, inside rearview, wide angle	●	
Mirrors high visibility		●
Mirrors, outside heated 24V		●
Mirrors, outside mounted		●
Power port, 12V	●	
Radio ready, entertainment	●	
Rearview camera		●
Rollover protective structure (ROPS) cab, sound suppressed, less than 73 dB(A) ISO 6394 (70% fan speed)	●	
Seat belt indicator		●
Seat, heated		●
Seat, heated/ventilated		●
Seat, mechanical suspension, cloth	●	
Storage compartments	●	
Throttle control, electronic	●	

SAFETY	STANDARD	OPTIONAL
Additional rearview camera and monitor		●
Alarm, back up	●	
Fixed front with intermittent wiper	●	
Ground-level engine shutdown	●	
Hammer (emergency exit)	●	
Horn, electric	●	
Lockout, hydraulic implement for roading	●	
Machine security system key		●
Operator Not Present Monitoring system	●	
Paint, glare reducing – top of front frame, rear enclosure and ripper cylinders	●	
Seat belt, retractable 76 mm (3 in)	●	
Secondary steering	●	
Side and rear wipers (3)	●	
Windows, laminated glass	●	

POWERTRAIN	STANDARD	OPTIONAL
Cat® C13 engine	●	
Air cleaner, dual stage, dry-type radial seal with service indicator through messenger and dust ejector	●	
Air-to-Air After Cooler (ATAAC)	●	
Articulation, automatic Return-to-Center	●	
Auto diff lock	●	
Brake wear indication	●	
Brakes, oil disc, four-wheel, hydraulic	●	
Clutch, circle drive slip	●	
Demand fan, hydraulic	●	
Drain, engine oil, ecology	●	
Engine Eco mode	●	
Engine, compression brake		●
Ether starting aid	●	
Fuel tank, ground level	●	
Fuel-water separator	●	
Heater, engine coolant, 120V		●
Heater, engine coolant, 240V		●
Monitoring system	●	
Optimized VHP	●	
Parking brake – multi disc, sealed, oil-cooled	●	
Priming pump, fuel	●	
Sediment drain, fuel tank	●	
Transmission, 8F/6R, power shift, direct drive	●	
Transmission, autoshift		●

(continued on next page)

STANDARD AND OPTIONAL EQUIPMENT *(CONTINUED)*

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

ELECTRICAL	STANDARD	OPTIONAL
Alternator, 150 ampere, sealed	●	
Batteries, maintenance free, HD, 1,125 CCA	●	
Belt, serpentine, automatic tensioner	●	
Breaker panel	●	
Electrical system, 24V	●	
Light, LED, warning strobe		●
Lights, front headlights high		●
Lights, front headlights low		●
Mounting, for warning light		●
Service lights, enclosure, rear, LED	●	
Starter, electric	●	
Working lights halogen		●
Working lights LED		●

SERVICE AND MAINTENANCE	STANDARD	OPTIONAL
Extended life coolant	●	
Fast-fill fueling		
Ground-level DEF and fuel fill	●	
Grouped location for engine oil and fuel filters	●	

GUARDS	STANDARD	OPTIONAL
Accumulators, blade lift		●
Debris guard		●
Front axle cylinder guards		●
Metallic DCM wear strips		●
Rear fenders		●
Sound suppression, engine enclosure and transmission		●
Transmission guard		●

ATTACHMENTS AVAILABLE FROM FACTORY	STANDARD	OPTIONAL
Lift groups		●
High performance circle		●
Counterweight		●
Push block		●
Rear ripper/scarifier		●
Moldboards		●
Front blade		●

ATTACHMENTS	STANDARD	OPTIONAL
Moldboard, 4.3 m (14 ft)	●	
Moldboard, 4.9 m (16 ft)		●
Snow wing, mounting frame ready		●
Fast fill		●
Push block, counterweight		●
Ripper, rear		●
Tooth, ripper		●
Snow wings		●
V-Plow		●
Straight plow		●
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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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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