150
Motor Grader

Technical Specifications

Configurations and features may vary by region. Please consult your Cat® dealer for availability in your area.

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150 Motor Grader Specifications

Engine

Engine Model	Cat® C9.3B	
Net Power (Non-AWD)		
ISO 9249/SAE J1349	99-186 kW	133-249 hp
Net Power (AWD)		
ISO 9249/SAE J1349	104-197 kW	139-264 hp
Bore	115 mm	4.5 in
Stroke	149 mm	5.9 in
Displacement	9.3 L	567.5 in^3
Torque Rise	38%	
Torque Rise (AWD)	35%	
Maximum Torque	1251 N•m	281 lbf-ft
Maximum Torque (AWD)	1359 N•m	306 lbf-ft
Rated Speed	2,000 rpm	
Number of Cylinders	6	
Idle Speed		
High Idle Speed	2,100 rpm	
Low Idle Speed	800 rpm	
Maximum Altitude at Full Power		
Non-AWD	4500 m	14,764 ft
AWD	3000 m	9,843 ft

- Advertised power is tested per the specified standard in effect at the time of manufacture.
- See page 11 for Environmental Declarations and Sustainability information.
- Net power available at the flywheel when the engine is equipped with fan, air cleaner, aftertreatment, and alternator with engine speed at 2,000 rpm.
- Cat engines are compatible with diesel fuel blended with following lower-carbon intensity fuels** up to:
  - ✓ 100% biodiesel FAME (fatty acid methyl ester)*
  - ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels
- Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

* For use of blends higher than 20% biodiesel, consult your Cat dealer.

** Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

Powertrain

Forward/Reverse Gears	9 Forward/6 Reverse including finish gear
Transmission	Direct Drive Powershift, Countershaft
Air Cleaner	Dry
Brakes	Type System
Service	Hydraulic
Parking	Spring Apply/Hydraulic Release
Secondary	Dual Circuit Hydraulic

Hydraulic System

Type (Implement/Steering/Brake)	Closed – Center
Circuit Type	Parallel Post Compensated
Pump Type	Variable Piston
Pump Output	29 129 kPa at 2,000 rpm

Operating Specifications

Top Speed Forward	49.0 km/h	30.5 mph
Top Speed Reverse	38.7 km/h	24.1 mph
Steering Range	50° Left and Right	
Articulation Angle	20° Left and Right	
Front Wheel Lean	18°	
Total Oscillation	32°	
Forward		
Finish Gear (FG)	3.1 km/h	1.9 mph
1st	4.3 km/h	2.6 mph
2nd	5.8 km/h	3.6 mph
3rd	8.4 km/h	5.2 mph
4th	11.6 km/h	7.2 mph
5th	18.0 km/h	11.2 mph
6th	24.5 km/h	15.2 mph
7th	33.7 km/h	21.0 mph
8th	49.0 km/h	30.5 mph
Reverse		
1st	3.4 km/h	2.1 mph
2nd	6.3 km/h	3.9 mph
3rd	9.2 km/h	5.7 mph
4th	14.2 km/h	8.8 mph
5th	26.6 km/h	16.5 mph
6th	38.7 km/h	24.1 mph

- Machine speed measured at 2,100 rpm with 14.00R24 tires.

Power to the Ground – AWD

150 (16A) LVR / JOY				
Power Type	ISO 9249 Net		Power to Ground*	
Finish Gear	104 kW	139 hp	73 kW	98 hp
1F	145 kW	195 hp	108 kW	145 hp
2F	167 kW	224 hp	126 kW	168 hp
3F	176 kW	236 hp	128 kW	171 hp
4F	187 kW	250 hp	129 kW	172 hp
5F	197 kW	264 hp	130 kW	175 hp
6F	197 kW	264 hp	125 kW	167 hp
7F	197 kW	264 hp	111 kW	149 hp
8F	197 kW	264 hp	99 kW	132 hp
ISO 14396 Gross		211 kW	283 hp	
Max Torque		1359 N•m	1002 lb-ft	
Rated Speed		2,000 rpm		
Peak Torque		1,000 rpm		

Power to the Ground – Non-AWD

150 (16A) LVR / JOY				
Power Type	ISO 9249 Net		Power to Ground*	
Finish Gear	99 kW	133 hp	73 kW	97 hp
1F	139 kW	186 hp	107 kW	144 hp
2F	149 kW	199 hp	115 kW	154 hp
3F	158 kW	212 hp	121 kW	162 hp
4F	163 kW	219 hp	121 kW	162 hp
5F	169 kW	226 hp	121 kW	162 hp
6F	175 kW	235 hp	119 kW	160 hp
7F	181 kW	242 hp	111 kW	149 hp
8F	186 kW	249 hp	109 kW	146 hp
ISO 14396 Gross		200 kW	268 hp	
Max Torque		1251 N•m	923 lb-ft	
Rated Speed		2,000 rpm		
Peak Torque		1,000 rpm		

• Calculated powers verified by independent testing at Nebraska Tractor Lab, Lincoln NE, August 19, 2024. Conditions include dry concrete track with average temperature 24° C (75° F).

*Ground speed matched (+/-50 rpm engine). Performance variable fan speed 90%.

150 Motor Grader Specifications

Operating Weight – Tier 4/Stage V

Base Weights		
Weight, Base, Lever Configuration, Non-AWD	17 229 kg	37,983 lb
Front Axle	4745 kg	10,461 lb
Rear Axle	12 484 kg	27,523 lb
Weight, Base, Lever Configuration, AWD	18 216 kg	40,159 lb
Front Axle	5444 kg	12,002 lb
Rear Axle	12 772 kg	28,157 lb
Weight, Base, Joystick Configuration, Non-AWD	17 474 kg	38,524 lb
Front Axle	4652 kg	10,256 lb
Rear Axle	12 822 kg	28,268 lb
Weight, Base, Joystick Configuration, AWD	18 389 kg	40,541 lb
Front Axle	5386 kg	11,874 lb
Rear Axle	13 003 kg	28,667 lb
Typically Equipped Weights		
Weight, Base, Lever Configuration, Non-AWD	19 430 kg	42,836 lb
Front Axle	5490 kg	12,103 lb
Rear Axle	13 940 kg	30,732 lb
Weight, Base, Lever Configuration, AWD	20 417 kg	45,012 lb
Front Axle	6215 kg	13,702 lb
Rear Axle	14 202 kg	31,310 lb
Weight, Base, Joystick Configuration, Non-AWD	19 668 kg	43,361 lb
Front Axle	5422 kg	11,953 lb
Rear Axle	14 246 kg	31,407 lb
Weight, Base, Joystick Configuration, AWD	20 588 kg	45,389 lb
Front Axle	5708 kg	12,584 lb
Rear Axle	14 880 kg	32,805 lb

- Base weight is calculated with full fuel tank, operator, 14.0R24 tires on multi-piece rims, and ROPS cab.

Operating Weight – Tier 3/Stage IIIA

Base Weights		
Weight, Base, Lever Configuration, Non-AWD	16 989 kg	37,454 lb
Front Axle	4709 kg	10,382 lb
Rear Axle	12 280 kg	27,073 lb
Weight, Base, Lever Configuration, AWD	17 975 kg	39,628 lb
Front Axle	5424 kg	11,958 lb
Rear Axle	12 552 kg	27,672 lb
Weight, Base, Joystick Configuration, Non-AWD	17 148 kg	37,805 lb
Front Axle	4643 kg	10,236 lb
Rear Axle	12 506 kg	27,571 lb
Weight, Base, Joystick Configuration, AWD	18 115 kg	39,937 lb
Front Axle	5344 kg	11,782 lb
Rear Axle	12 771 kg	28,155 lb
Typically Equipped Weights		
Weight, Base, Lever Configuration, Non-AWD	19 189 kg	42,305 lb
Front Axle	5452 kg	12,020 lb
Rear Axle	13 737 kg	30,285 lb
Weight, Base, Lever Configuration, AWD	20 176 kg	44,480 lb
Front Axle	6194 kg	13,655 lb
Rear Axle	13 982 kg	30,825 lb
Weight, Base, Joystick Configuration, Non-AWD	19 196 kg	42,320 lb
Front Axle	5328 kg	11,746 lb
Rear Axle	13 868 kg	30,574 lb
Weight, Base, Joystick Configuration, AWD	20 310 kg	44,776 lb
Front Axle	6113 kg	13,477 lb
Rear Axle	14 197 kg	31,299 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, and other equipment.

Moldboard

Moldboard	12 ft Moldboard		14 ft Moldboard		14 ft Plus Moldboard		16 ft Moldboard	
Height (Cutting Edges + Moldboard)	556 mm	21.9 in	587 mm	23.1 in	621 mm	24.4 in	622 mm	24.5 in
Width (Cutting Edges + Moldboard)	3658 mm	144.0 in	4267 mm	168.0 in	4267 mm	168.0 in	4877 mm	192.0 in
Thickness	22 mm	0.9 in	22 mm	0.9 in	25 mm	1.0 in	25.4 mm	1.0 in
Arc Radius	413 mm	16.3 in	413 mm	16.3 in	413 mm	16.3 in	413 mm	16.3 in
Throat Clearance, Non-HPC	125 mm	4.7 in	119 mm	4.7 in	85 mm	3.3 in	111 mm	4.4 in
Cutting Edge								
Height	152 mm	6.0 in	203 mm	8.0 in	203 mm	8.0 in	203 mm	8.0 in
Width	1829 mm	72.0 in	2133 mm	84.0 in	2133 mm	84.0 in	2438 mm	96.0 in
Thickness	16 mm	0.6 in	19 mm	0.7 in	19 mm	0.7 in	24 mm	0.9 in
End Bit								
Height	452 mm	17.8 in	452 mm	17.8 in	452 mm	17.8 in	452 mm	17.8 in
Width	152 mm	6.0 in	152 mm	6.0 in	152 mm	6.0 in	152 mm	6.0 in
Thickness	16 mm	0.6 in	16 mm	0.6 in	16 mm	0.6 in	16 mm	0.6 in

• 12 foot moldboard is standard on the 150.

Blade Range

	NON TOP ADJUST		TOP ADJUST		HIGH PERFORMANCE CIRCLE	
Circle centershift						
Right	773 mm	30.4 in	773 mm	30.4 in	773 mm	30.4 in
Left	823 mm	32.4 in	823 mm	32.4 in	823 mm	32.4 in
Moldboard side shift						
Right	966 mm	38.0 in	966 mm	38.0 in	966 mm	38.0 in
Left	809 mm	31.9 in	809 mm	31.9 in	809 mm	31.9 in
Maximum shoulder reach outside tires (12 ft moldboard) – through the outside surface of rear axle tires						
Right	2234 mm	88.0 in	2234 mm	88.0 in	2234 mm	88.0 in
Left	2095 mm	82.5 in	2095 mm	82.5 in	2095 mm	82.5 in
Maximum shoulder reach outside of tires (14 ft moldboard) – through the outside surface of rear axle tires						
Right	2539 mm	100.0 in	2539 mm	100.0 in	2539 mm	100.0 in
Left	2400 mm	94.5 in	2400 mm	94.5 in	2400 mm	94.5 in
Maximum blade position angle both sides	102°		102°		102°	
Maximum blade tip						
Forward	40°		40°		40°	
Rear	5°		5°		5°	
Maximum lift above ground	468 mm	18.4 in	450 mm	17.7 in	447 mm	17.6 in
Maximum depth of cut	675 mm	26.6 in	675 mm	26.6 in	678 mm	26.7 in

NOTE: Values are calculated using 14.0R24 tires.

150 Motor Grader Specifications

Drawbar

Non-HPC		
Height and Width	152.4 mm	6.0 in
Width	76.2 mm	3.0 in
Thickness	12.7 mm	0.5 in
Shoes	6 shoes with replaceable wear strips	
HPC		
Height and Width	152.4 mm	6.0 in
Width	76.2 mm	3.0 in
Thickness	12.7 mm	0.5 in
Shoes	None – sealed bearing	

Circle

Non-HPC		
Section	Rolled Ring Forging	
Outside Diameter	1530 mm	60.2 in
Number of Teeth	64	
Rotation with No Grade or Digital Blade Slope Meter	360°	
Rotation with Cat Grade-Cross Slope, 3D Ready and 3D	Right 70°	Left 70°
HPC		
Section	Welded Ring	
Outside Diameter	1530 mm	60.2 in
Number of Teeth	110	
Rotation with no Cat Grade and Digital Blade Slope Meter	360°	
Rotation with Cat Grade-Cross Slope, 3D Ready and 3D	Right 70°	Left 70°

Electrical

Starting System Type	Direct Electric
Extreme Duty Battery	
CCA at –18°	1125 amp
Volts	12V
Quantity	2
Standard Alternator	150 amps at 24V

Service Refill Capacities

Standard Circle Drive	7 L	1.8 gal
High Performance Circle Drive	9.5 L	2.5 gal
Cooling System	50 L	13.2 gal
Diesel Exhaust Fluid (DEF) Tank*	40 L	10.6 gal
Engine Crankcase	26 L	6.9 gal
Fuel Tank	371 L	98.0 gal
Hydraulic System	123 L	32.5 gal
Tandem Housing (each)	80 L	21.1 gal
Transmission and Differential	60 L	15.9 gal

*Tier 4 Final/Stage V machines only

Rear Ripper

Ripping Depth Maximum	424 mm	16.7 in
Ripper Shank Holder	5	
Ripper Shank Holder Spacing		
Minimum	523.4 mm	20.6 in
Maximum	543.3 mm	21.4 in
Penetration Force		
Non-AWD	84.6 kN	62 lbf
AWD	84.6 kN	62 lbf
Pryout Force		
Non-AWD	104 kN	77 lbf
AWD	121.4 kN	90 lbf
Machine Length Increase, Beam Raised	649.2 mm	25.6 in

Scarifier

Mid-Straight Carriage		
Working Width	2310.4 mm	11.4 in
Scarifying Depth, Maximum	288.5 mm	18.4 in
Scarifier Shank Holders	19	
Scarifier Shank Holder Spacing, Minimum	111 mm	4.4 in
Scarifier Shank Holder Spacing, Maximum	213 mm	8.4 in
Mid, V-Shape Carriage		
Working Width	1392 mm	54.8 in
Scarifying Depth, Maximum	290.4 mm	11.4 in
Scarifier Shank Holders	13	
Scarifier Shank Holder Spacing, Minimum	116 mm	4.6 in
Scarifier Shank Holder Spacing, Maximum	116 mm	4.6 in

Standards

Cab Rollover Protective Structure (ROPS)	ISO 3471:2008
Cab Fallover Protective Structure (FOPS)	ISO 3449:2005, Level II
Brakes	ISO 3450:2011
Steering	ISO 5010:2019*

*When equipped with secondary steering, which is optional on some models

Sound Standards

Sound	ISO 6395:2008 ISO 6396:2008
Spectator Sound Level	107 dB(A)
Operator Sound Level	69 dB(A)

- The dynamic spectator sound power level measurements are performed according to the dynamic test procedures that are specified in ISO 6395:2008. The measurements were conducted at 70% of the maximum engine cooling fan speed.
- The dynamic operator sound pressure level measurements are performed according to the dynamic test procedures that are specified in ISO 6396:2008. The measurements were conducted at 70% of the maximum engine cooling fan speed, with the cab doors and the cab windows closed. The cab was properly installed and maintained.

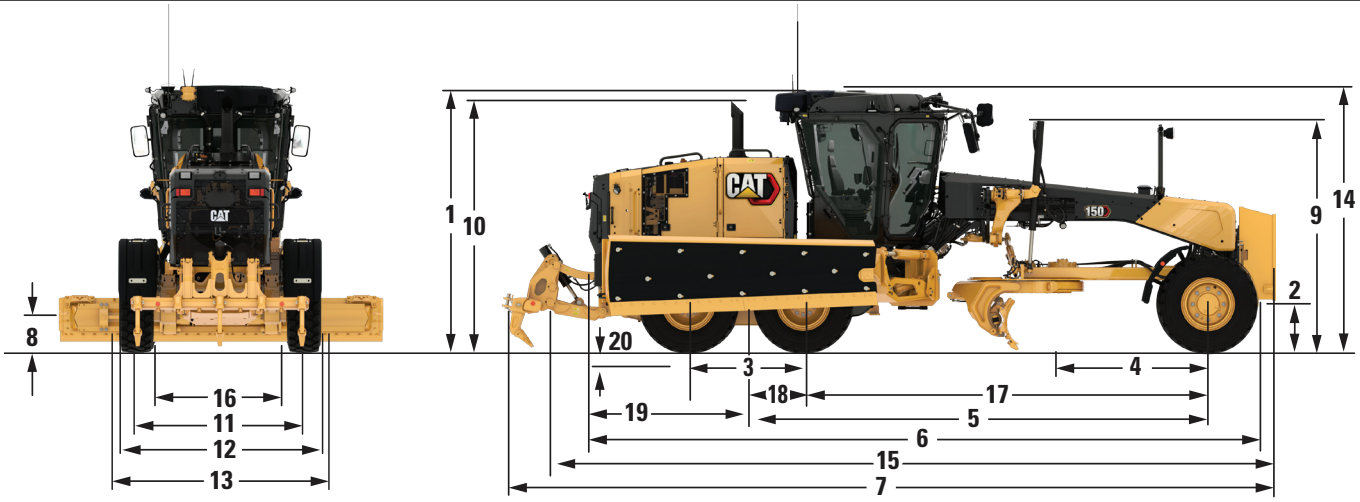
Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf. Refer to the machine labeling 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 CO_2 equivalent of 2.288 metric tonnes (2.521 tons).

150 Motor Grader Specifications

Dimensions

All dimensions are approximate and may vary dependent on tire selection. Dimensions below are calculated with 14.00R25 tires.



1	Height – Top of Cab	3454 mm	136.0 in
2	Height		
	Front Axle Center	612 mm	24.1 in
3	Length – Between Tandem Axles	1523 mm	59.0 in
4	Length		
	Front Axle to Moldboard	2564 mm	100.9 in
5	Length		
	Front Axle to Rear Axle	6136 mm	241.6 in
6	Length		
	Front Tire to Rear of Machine (Non AWD)	8911 mm	350.8 in
7	Length – Push Plate to Ripper	10297 mm	405.4 in
8	Ground Clearance at Rear Axle	333 mm	13.1 in
9	Height to Top of Cylinders	3044 mm	119.8 in
10	Height to Exhaust Stack	3175 mm	125.0 in
11	Width – Rear Tire Center Lines	2087 mm	82.2 in
12	Width – Outside Rear Tires	2532 mm	99.7 in

13	Width – Outside Front Tires		
	LVR Configuration, Tandem – Non-AWD	2521 mm	99.3 in
	Joystick Configuration, Tandem – Non-AWD	2583 mm	101.7 in
	LVR Configuration, AWD	2667 mm	105.0 in
	Joystick Configuration, AWD	2667 mm	105.0 in
14	Maximum Height With Attachments		
	LVR Configuration	3476 mm	136.9 in
	Joystick Configuration	3450 mm	135.8 in
15	Length – Push Plate to Raised Ripper	9963 mm	392.2 in
16	Width – Inside Rear Tires	1642 mm	64.6 in
17	Length		
	Front Axle to Articulation Hitch	5292 mm	208.3 in
18	Length – Rear Axle to Articulation Hitch	844 mm	33.2 in
19	Length – Rear Axle to Rear of Machine	2099 mm	82.6 in
20	Height – Tire Deflection at Performance Weight	64.5 mm	2.5 in

Standard and Optional Equipment

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

	Standard	Optional
OPERATOR ENVIRONMENT		
Cab, base (JOY)	✓	
Cab, base (LVR)	✓	
Cab Plus (sliding side windows) (JOY)		✓
Cab Plus (sliding side windows) (LVR)		✓
Cab Premium (sliding side windows, door wiper/ washer) (LVR)		✓
Cab Premium (heated front glass, right-door glass, and right-side glass) (JOY)		✓
Cab storage	✓	
CB radio mount bracket with converter		✓
Cellphone holder	✓	
Cup holder	✓	
Differential lock, auto (JOY)	✓	
Differential lock, manual (LVR)	✓	
Heating, ventilation, and air conditioning (HVAC)	✓	
Lights, dome interior	✓	
Radio ready (JOY)	✓	
AM/FM, Bluetooth®, Weatherband		✓
Satellite radio		✓
DAB radio		✓
Push to Start	✓	
Rollover protective structure (ROPS)/falling objects protective structure (FOPS)	✓	
Screen, rear sun shade		✓
Seat belt	✓	
Seat belt w/indicator		✓
Seat, air suspension	✓	
Seat, premium heated and ventilated		✓
SAFETY		
Back-up alarm	✓	
Signaling/warning horn	✓	
Beacon mounts (2)		✓
Drawbar toolbox		✓
Grab rails	✓	
Hydraulic brakes	✓	
Hydraulic system – integrated dead engine implement lower	✓	
Hydraulic system – integrated work port pressure relief	✓	
License plate bracket	✓	
Lockout, hydraulic (JOY)	✓	
Lockout, manual (LVR)		✓
Operator Presence System	✓	
Parking brake	✓	
Mirror, rearview	✓	
Mirrors, side view (LVR)	✓	
Mirrors, side view (JOY)		✓
Mirrors, B-post		✓

	Standard	Optional
SAFETY (CONTINUED)		
Sound suppression, bottom		✓
Sound suppression, engine		✓
Steering, secondary	✓	
Tandem toolbox	✓	
Tandem walkways	✓	
POWERTRAIN		
Cat® C9.3 engine	✓	
Eco mode	✓	
All-wheel drive (AWD)		✓
Cold weather package		✓
Cold weather package plus		✓
Ecology drain	✓	
Engine idle shutdown	✓	
High-speed engine oil drain		✓
Reversing fan		✓
Transmission with auto shift		✓
Transmission, 9-speed	✓	
DRAWBAR CIRCLE MOLDBOARD		
Bottom adjust circle (LVR)	✓	
Top adjust circle (JOY)	✓	
High Performance Circle with circle saver		✓
Circle drive slip clutch	✓	
Circle saver, top adjust and bottom adjust		✓
Blade lift accumulators		✓
Moldboard, 12 foot	✓	
Moldboard, 14 foot		✓
Moldboard cutting edges		✓
Moldboard end bits		✓
Moldboard grader bits		✓
ELECTRICAL		
1400 CCA battery (LVR/JOY)		✓
1125 CCA battery (JOY)	✓	
150A Alternator	✓	
200A Alternator (LVR/JOY)		✓
Fold down rear lights and turn signals		✓
LED lights – rear lights	✓	
LED lights – snow wing		✓
LED working lights basic – mid-toe and heel lights		✓
LED working lights plus – mid-toe, heel, ripper, and cab roading lights		✓
Low light or high light bars		✓
Reversing lights	✓	

(Continued on next page)

Standard and Optional Equipment *(continued)*

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

	Standard	Optional
SERVICE AND MAINTENANCE		
Engine service light	✓	
Extended life coolant	✓	
Ground-level diesel exhaust fluid (DEF) and fuel fill (Tier 4 Final, Stage V only)	✓	
Grouped location for engine oil and fuel filters	✓	
Next generation fluid filters	✓	
Service doors, barrel-hinged	✓	
Service doors, lower panel toolless removal	✓	
GUARDS		
Cover, under cab platform		✓
Fenders		✓
Steering cylinder guards (AWD only)		✓
Transmission		✓
TIRES		
14.0R24		✓
17.5-25		✓
17.5R25		✓
550/65R25		✓
ATTACHMENTS		
Angling plow		✓
Brooms		✓
Counterweight		✓
Front blade		✓
Lift groups		✓
Mid-machine scarifier (MMS)		✓
Plows		✓
One-way plow		✓
Push block		✓
Rear ripper/scarifier		✓
Snow wing		✓
Straight plow		✓
Tow hitch		✓
Trip edge plow		✓
U-V plow		✓
V-Plow		✓

	Standard	Optional
TECHNOLOGY		
Digital blade slope meter (LVR)		✓
ARO (LVR)		✓
Cross Slope Assist (2D) (LVR)		✓
Cross Slope Assist: E-Fence (2D) (JOY)	✓	
Cat Grade 3D Mastless		✓
Cat Grade 3D Ready w/Mastless (JOY)		✓
Front Vision		✓
Rear Vision		✓
RTK corrections radios for Cat Grade w/3D Mastless		✓
Security System Passcode	✓	
Security System Bluetooth Key Fob		✓
Stable Blade		✓
Surround Vision (360°)		✓
Surround Vision (360°) w/People Detection		✓
Tire Pressure Monitoring System (TPMS)		✓
VisionLink™		✓
Application Segmentation and Efficiency Coach (JOY)		✓
Auto articulation	✓	

150 Environmental Declaration

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit https://www.caterpillar.com/en/company/sustainability.

Engine

- The Cat® C9.3B engine is available in configurations that meet U.S. EPA Tier 4 Final and EU Stage V emission standards.
- The Cat C9.3B engine is available in configurations that meet Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- Cat engines are compatible with diesel fuel blended with following lower-carbon intensity fuels** up to:
  - ✓ 100% biodiesel FAME (fatty acid methyl ester)*
  - ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels
- Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

** For use of blends higher than 20% biodiesel, consult your Cat dealer.*

*** Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.*

Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf. Refer to the machine labeling 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 CO_2 equivalent of 2.288 metric tonnes (2.521 tons).

Paint

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
  - – Barium < 0.01%
  - – Cadmium < 0.01%
  - – Chromium < 0.01%
  - – Lead < 0.01%

Sound Performance

Spectator Sound Level – (ISO 6395:2008) 107 dB(A)

Operator Sound Level – (ISO 6396:2008) 69 dB(A)

- The dynamic spectator sound power level measurements are performed according to the dynamic test procedures that are specified in ISO 6395:2008. The measurements were conducted at 70% of the maximum engine cooling fan speed.
- The dynamic operator sound pressure level measurements are performed according to the dynamic test procedures that are specified in ISO 6396:2008. The measurements were conducted at 70% of the maximum engine cooling fan speed, with the cab doors and the cab windows closed. The cab was properly installed and maintained.

Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

Features and Technology

- The following features and technology contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
  - – Eco mode minimizes fuel consumption for light application.
  - – Engine Idle Shutdown Timer reduces fuel burn, greenhouse gas emissions and unnecessary idle time by shutting down the machine after a preset idling period.
  - – Cat Grade helps reduce fuel burn and greenhouse gas emissions by enabling you to achieve grade faster and more accurately by automating blade actions.
  - – Cut maintenance costs with extended service intervals next generation filters.
  - – Improve jobsite efficiency with lower operating costs with VisionLink™ insights.

Recycling

- The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

Material Type	Weight Percentage
Steel	81.95%
Iron	11.90%
Nonferrous Metal	1.45%
Mixed Metal	0.04%
Mixed Metal and Nonmetal	2.47%
Plastic	0.51%
Rubber	0.07%
Mixed Nonmetallic	0.44%
Fluid	0.28%
Other	0.56%
Uncategorized	0.33%
Total	100%

- A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance end-of-life value of the product. According to ISO 16714 (Earthmoving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused, or both.

  All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

  Because of variations of product configurations, the following value in the table may vary.

Recyclability – 98%

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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