

STANDARD & OPTIONAL EQUIPMENT

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

POWER TRAIN	STANDARD	OPTIONAL	DRAWBAR CIRCLE MOLDBOARD	STANDARD	OPTIONAL
Cat C7.1 Engine	•		Standard Drawbar Circle Moldboard	•	
ECO Mode	•		Circle Drive Slip Clutch	•	
50° C (122° F) Ambient Capacity	•		Circle Saver	•	
Engine Idle Shutdown Timer	•		Top Adjust Drawbar Circle Moldboard		•
Differential Lock	•				
Hydraulic Demand Fan	•				
Reversing Fan		•			
CAB	STANDARD	OPTIONAL	SAFETY AND SECURITY	STANDARD	OPTIONAL
ROPS/FOPS		•	Rearview Mirror	•	
Mechanical Suspension Seat	•		Side view Mirror	•	
Air Suspension Adjustable Seat		•	Signaling/Warning Horn	•	
Canopy Cab		•	Secondary Steering System		•
Touchscreen Display		•	Rearview Camera		•
Standard Information Display	•		Hydraulic Brakes	•	
Adjustable Control Console (Levers)	•				
Entertainment Radio Ready		•	SERVICE AND MAINTENANCE	STANDARD	OPTIONAL
Halogen Lighting	•		Grouped Location for Engine Oil and Fuel Filters	•	
LED Lighting		•	Extended Life Coolant	•	
USB/Auxiliary Radio		•	Ground Level Fuel Fill		•
CAT TECHNOLOGY	STANDARD	OPTIONAL	ATTACHMENTS	STANDARD	OPTIONAL
Product Link	•		Push Block		•
Remote Services		•	Front Lift Group		•
			Ripper		•
			Scarifier		•
			Mid Mount Scarifier	•	
			Front Blade		•

120

MOTOR GRADER



GAINWELL COMMOALES PRIVATE LIMITED

CIN: U74900WB2014PTC204347
 (Formerly Tractors India Private Limited)

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Engine Power
 Operating Weight

93 kW (125 hp)
 15 699 kg (34,610 lb)

Cat® C7.1 Engine meets China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 3/EU Stage IIIA.



TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

POWER TRAIN	
Engine Model	Cat C7.1
	China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 3/EU Stage IIIA
Engine Power	93 kW-116 kW
ISO 9249, SAE J1349, EEC 80/1269	125 hp-156 hp
Bore	105 mm 4.1 in
Displacement	7.01 L 427.8 in ³
Stroke	135 mm 5.3 in
Engine RPM	2,000 rpm
Maximum Torque – ISO 9249	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
<ul style="list-style-type: none"> • Engine power is tested per ISO 9249, SAE J1349, and EEC 80/1269 Standards in effect at the time of manufacture. • 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 CO₂ equivalent of 2.288 metric tonnes. • Net power advertised is the power available at rated speed of 2,000 rpm, measured at the flywheel when engine is equipped with fan, air cleaner, muffler, and alternator. 	
WEIGHT	
Typically Equipped Machine Weight*	15 699 kg 34,610 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.	
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	

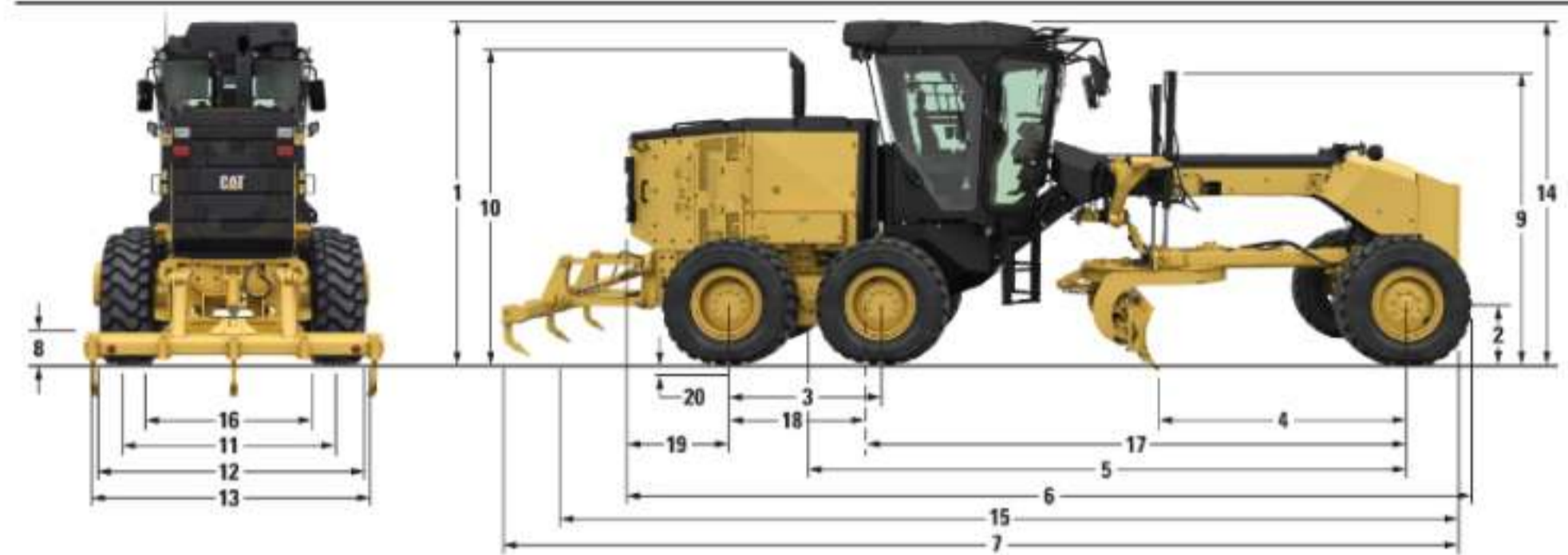
MOLDBOARD			
Width	3.7 m	12 ft	
Height	610 mm	24 in	
End Bit	152 mm	6 in	
Cutting Edge	152 mm	6 in	
Arc Radius	413 mm	16.3 in	
Throat Clearance	120 mm	4.7 in	

DIMENSIONS			
Length of Machine*	9838 mm	387 in	
Maximum Height	3440 mm	135.4 in	
Width	2495 mm	98.2 in	
*Typically equipped with push block and ripper			

OPERATING SPECIFICATIONS			
Top speed forward	48.3 km/h	30.1 mph	
Top speed reverse	38.1 km/h	23.7 mph	
Turning Radius, Outside Front Tires	7.4 m	291.3 in	
Steering Range	50° Left and Right		
Articulation Angle	20° Left and Right		
Front Wheel Lean	18° Left and Right		
Total Oscillation	32°		

Dimensions

All dimensions are approximate.



1 Height – Top of Cab	3465 mm	136.4 in
2 Height – Front Axle Center	590 mm	23.2 in
3 Length – Between Tandem Axles	1510 mm	59.5 in
4 Length – Front Axle to Moldboard	2551 mm	100.4 in
5 Length – Front Axle to Mid Tandem	5945 mm	234 in
6 Length – Front Tire to Rear of Machine	8534 mm	336 in
7 Length – Push Plate to Ripper	9838 mm	387 in
8 Ground Clearance at Rear Axle	349 mm	13.7 in
9 Height to Top of Cylinders	2895 mm	114 in
10 Height to Exhaust Stack	2924 mm	115 in
11 Width – Tire Center Lines	2070 mm	81.5 in
12 Width – Outside Rear Tires	2491 mm	98 in
13 Width – Outside Front Tires	2495 mm	98.2 in
14 Maximum Height – with Attachments	3440 mm	135.4 in
15 Length – Push Plate to Raised Ripper	9583 mm	377 in
16 Width – Inside Rear Tires	1649 mm	64.9 in
17 Length – Front Axle to Articulation Hitch	5284 mm	208 in
18 Length – Rear Axle to Articulation Hitch	660 mm	26 in
19 Length – Rear Axle to Rear of Frame	1726 mm	68 in
20 Height – Tire Deflection at Performance Weight	45 mm	1.8 in

120 TRAVEL SPEED & NET POWER

Forward	Travel Speed		Net Power	
		km/h	kW	hp
1st	4.1	93	125	
2nd	5.6	97	130	
3rd	8.2	101	136	
4th	11.3	108	145	
5th	17.7	112	150	
6th	24.1	116	156	
7th	33.2	116	156	
8th	48.3	116	156	
Reverse				
1st	3.3	93	125	
2nd	6.1	97	130	
3rd	8.9	101	135	
4th	14.0	101	135	
5th	26.2	101	135	
6th	38.1	101	135	

CAB FEATURES

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

● – standard ○ – optional x – not available