



Cat[®] 120K2 MOTOR GRADER

FEATURES:

- **Cat[®] C7 Engine** – Optimum power and fuel efficiency, combined with Power Management and Electronic Throttle Control, assure maximum productivity. The 120K2 is certified to Bharat Stage III and China Stage II emissions standards.
- **Power Train** – The Power Shift transmission features direct drive and electronic control for smooth, powerful shifts at any speed.

- **Balanced Hydraulics** – Proportional hydraulic flow provides outstanding 'feel' and predictable movements.
- **Job Site Safety** – Cat machines are designed to include features that enhance the safety of the operator and others on the job site.
- **Serviceability** – Grouping service points makes daily maintenance easier and faster, while enhanced diagnostics and monitoring help reduce downtime.

Specifications

Engine

Engine Model	Cat [®]	C7 ACERT™
Base Power (All gears) – Net	108 kW	145 hp
Displacement	7.2 L	439 in ³
Bore	105 mm	4.1 in
Stroke	127 mm	5 in
Torque Rise	50%	
Max. Torque	794 N·m	586 ft·lb
Speed @ rated power	2,000 rpm	
Number of cylinders	6	
Derating altitude	2286 m	7,500 ft
Hi Ambient Fan speed – max.	1,350 rpm	
Hi Ambient Capability	50° C	122° F

- Net power is tested per ISO 9249, SAE J1349, and EEC 80/1269 standards in effect at the time of manufacture.
- 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.
- Maximum torque measured at 1,000 rpm.

Power Train

Forward/Reverse Gears	8 fwd/6 rev
Transmission	Direct drive, Powershift
Brakes	
• Service	Air actuated, multiple oil-disc
• Service, surface area	18 606 cm ² 2,884 in ²
• Parking	Air actuated, multiple oil-disc
• Secondary	Dual Circuit

- Brakes meet the following standards: SAE J/ISO 3450 JAN 98.

Operating Specifications

Turning Radius, outside front tires	7.3 m	23 ft 11 in
Steering Range – left/right	47.5 Degrees	
Articulation Angle – left/right	20 Degrees	

Hydraulic System

Circuit Type	Load Sensing, Closed Center, PPPC	
Pump Type	Variable Piston	
Pump Output	210.5 L/min	55.6 gal/min
Maximum System Pressure	25 500 kPa	3,699 psi
Standby Pressure	3600 kPa	522.1 psi
Reservoir Tank Capacity	24.5 L	6.5 gal

- Pump output measured at 2,150 rpm

Service Refill

Fuel Capacity	305 L	80.6 gal
Cooling system	40 L	10.6 gal
Engine Oil	25 L	6.6 gal
Trans./Diff./Final Drives	47 L	12.4 gal
Tandem housing (each)	49 L	12.9 gal
Front wheel spindle bearing housing	0.5 L	0.1 gal
Circle drive housing	7 L	1.9 gal

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Weights

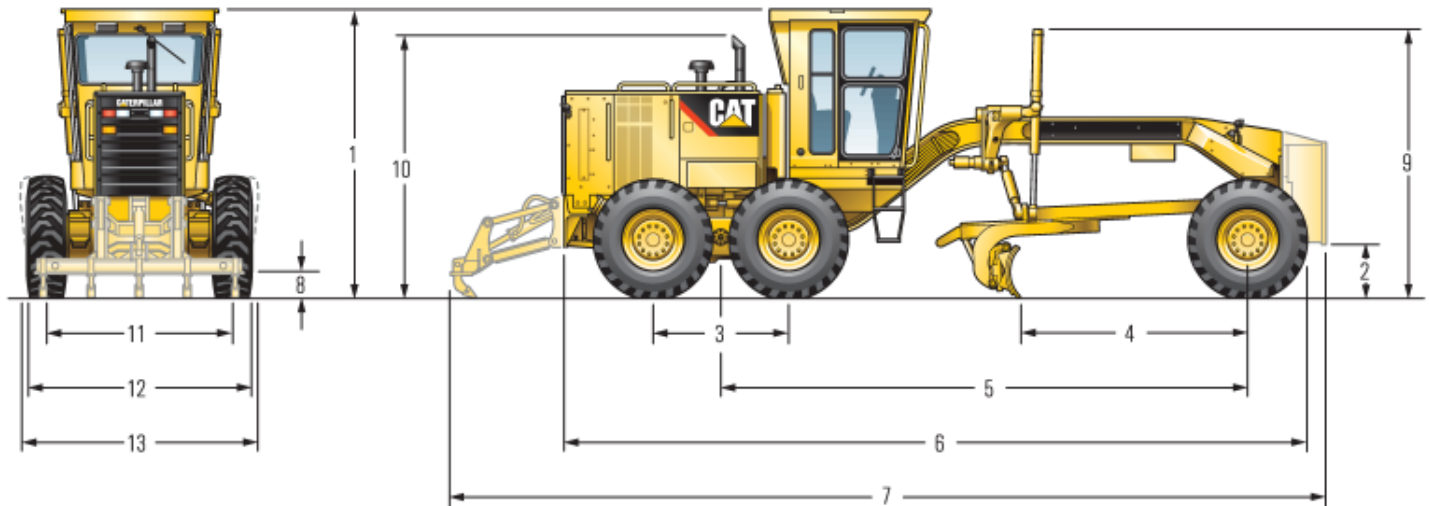
Gross Vehicle Wt, Base			
total	12,133 kg	26,749 lb	
front axle	3,120 kg	6,878 lb	
rear axle	9,013 kg	19,870 lb	
Gross Vehicle Wt, Typically Equipped			
total	12,998 kg	28,656 lb	
front axle	3,111 kg	6,859 lb	
rear axle	9,678 kg	21,356 lb	
Gross Vehicle Wt, Max.			
total	16,867 kg	37,185 lb	
front axle	5156 kg	11,367 lb	
rear axle	11,711 kg	25,818 lb	

- Base weight calculated on standard machine configuration with 13.00-24 12PR (G-2) tires, full fuel tank, coolant, lubricants and operator.
- Typical operating weight calculated on standard machine configuration with Cab High Profile ROPS, 13.00-24 12PR (G-2) tires, full fuel tank, coolant, lubricants and operator.
- Max. Vehicle Weight includes all compatible attachments with Cab High Profile ROPS, 13.00-24 12PR (G-2) tires, full fuel tank, coolant, lubricants and operator.

Standards

ROPS/FOPS	ISO 3471:1994/ISO 3449:1992
Steering	ISO 5010:1992
Brakes	ISO 3450:1996
Sound	ISO 6394:1998
	ISO 6393:1998

- The operator sound pressure level measured according to the procedures specified in ISO 6394:1998 is 74 dB(A) for the cab offered by Caterpillar, when properly installed, maintained and tested with the doors and windows closed.
- The exterior sound power level is 109 dB(A) measured according to the static test procedure and conditions specified in ISO 6393:1998 for a standard machine configuration.



Dimensions (All dimensions are subject to change without notice.)

1 Height - ROPS Cab	3326 mm	131 in	7 Length - Counterweight to Ripper	9769 mm	384.6 in
Height - Non-ROPS Cab	3320 mm	130.7 in	8 Ground Clearance, Trans. Case	341 mm	13.4 in
Height - ROPS Canopy	3326 mm	131 in	9 Height - Top of Cylinders	2885 mm	113.6 in
2 Ground Clearance - Center Front Axle	602 mm	23.7 in	10 Height to Exhaust Stack	2865 mm	112.8 in
3 Length - Between Tandem Axles	1510 mm	59.4 in	11 Width - Tire Center Lines	2056 mm	80.9 in
4 Length - Front Axle to Moldboard	2600 mm	102.4 in	12 Width - Outside Rear Tires	2459 mm	96.8 in
5 Length - Front Axle to Mid Tandem	5870 mm	231.1 in	13 Width - Outside Front Tires	2464 mm	97 in
6 Length - Front Tire to Rear of Machine	8242 mm	324.5 in			

TRACTORS INDIA PVT LTD

CIN: U29150WB1995PTC072501

1, Taratolla Road, Garden Reach, Kolkata - 700 024
 Ph: (91-33) 6633 2000 | Fax: (91-33) 6633 2845 | Toll-Free No: 1-800-3453355
 E-mail: marketing@tiplindia.com | Web: www.tiplindia.in

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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