

mahindra
CONSTRUCTION
EQUIPMENT

THE MASTER OF ROADBUILDING. AND HIGHER PROFIT TOO.

ROADMASTER G100 DR



ENGINE	
Model	G100 DR
Form of Air Aspiration	Turbo Charged
Number of Cylinders	4
Bore	96 mm
Stroke	122 mm
Displacement	3532 cc
High idle	2400 rpm
Low idle	2150±50 rpm
Cooling system	Water cooled
Type of fuel	Diesel
Gross power	76kw(102hp) @ 2200 rpm
Peak gross torque	440Nm @ 1200 -1500 rpm
Electrical system voltage	12 V

OPERATING SPECIFICATIONS			
Gross Vehicle Weight	9010		
Front Axle Weight	2510		
Rear Axle Weight	6500		
Speed @ gear (km/h)	Forward	Reverse	
	1st	4.0 to 5.5	5.0 to 6.5
	2nd	6.5 to 8.0	8.0 to 9.5
	3rd	14.5 to 16.5	
	4th	29.0 to 32.5	
Turning radius outside tyre R1	10 m		
Steering angle inner wheel	45°		
Steering angle outer wheel	32°		

MOLD BOARD	
Base Length of MB	3000
Thickness of Moldboard	16
Blade Height	H19 516

CUTTING EDGE (BLADE)	
Standard length of cutting edge (mm)	2600
W8 {3 piece cutting edge} {1100 + 1100 + 400}	
Standard length of cutting edge with side extension (mm)	3000
W8* {4 piece cutting edge} {1100 + 1100 + 400+ 400}	
Width of Cutting Edge	152
Thickness of Cutting Edge	16

FRONT AXLE	
Type Central Pivoted	Non-Driven, Steerable

REAR AXLE	
Type	Driven, Non Steerable, Rigid

TYRES & WHEELS	
Front Tyre	13 x 24-12 PR
Rear Tyre	17.5 x 25-16 PR

TYRE PRESSURE	
Front / Rear	304 kPa

TRANSMISSION	
Model Name	Carraro 4WD Transmission
Gear Ratios	Forward / Reverse
	1st 5.603 / 4.643
	2nd 3.481 / 2.884
	3rd 1.585 / 1.313
	4th 0.793 / 0.657

HYDRAULICS	
System	Open Centre
Pump Type	Fixed Displacement Tandem Gear Pump 26cc + 26cc (cubic centimetre)
Max Pump Flow rate	96 lpm @ 1950 rpm
Max Working pressure	210 bar
Refill Quantity	50 litre
System Capacity	70 litre
Other Feature	Load Holding with pressure relief valves for lift and sensing cylinder

DIMENSIONS			
Wheel Base	L3	5050	
Distance - Front axle to Moldboard Blade base	L12	1691	
Transport length	L1	6880 mm	
Minimum ground glearance	H4	472 mm	
Max vehicle height	H1	3300	
Track width - Front	W3F	1674	
Track width - Rear	W3R	1594	
Width - outside front tires	W1F	2021	
Width - outside rear tires	W1R	2062	

BLADE RANGE			
Circle rotation angle	50°+/-1.5° from transverse of vehicle		
Circle drive	Hydraulic cylinders with no end mechanical stoppers		
Blade side shift (LH/ RH)			513
Blade tilt angle/Bank cut angle (LH/RH) at ground level measured on blade			(20°/15°)
Blade tilt angle/Bank cut angle (LH/RH) at ground level measured on drawbar			(25.6°/20°)
Blade pitch angle at ground line	A11		Forward 40° Backward 5°
Blade without extension outside front tyre with blade positioned parallel to wheel axis	W9		289.5
Blade outside front tyre with blade positioned parallel to wheel axis	W9		489.5
Blade lift at normal blade pitch angle			395
Max blade cut depth below ground at nominal blade angle			300

SERVICE CAPACITIES	
Hydraulic tank	50 litre
Fuel tank	100 litre
Engine coolant	17 litre
Engine oil	13.5 litre
Transmission	16 litre
Rear axle (Differential)	14.5 litre for each axle
Rear Axle (Final Drive)	1.5 litre (On each wheel end)

BRAKES	
Service Brake type	Foot operated hydraulically actuated oil immersed disc in rear axle
Parking Brake type	Hand operated, mechanically, actuated oil immersed disc in rear axle

STEERING	
Type	Power Steering
Steering Valve	Load sensing with priority valve
Other feature	Emergency steering in case of pump failure

END BIT		
Width	C	200+/-1
Thickness		16+/-0.5
Blade Pull force		27 kN
Blade Down force		27 kN

ELECTRICAL	
System Voltage	12 V
Battery Rating	12 V, 100 Ah
Alternator type	12 V, 90 Amp

Technical specifications, features, are subject to change without prior notice. Images used are for representative purpose only. Accessories shown may not be a part of the standard product. Actual colors may vary. E&O.E. All dimensions are variable within +/-5%. For further details on warranty, please visit your nearest dealer.

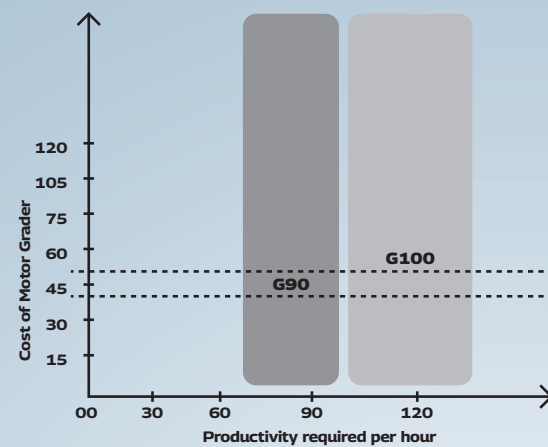
DEALER NAME

ROADMASTER G100 DR

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G75 SMART DEC 24

THE PROBLEM: UNDERUTILIZATION.



Underutilization of Motor Graders

Equipment	Avg. Daily Working (h/day)
Backhoe Loader	8 - 10 h
Excavator	8 - 12 h
Motor Graders	4 - 6 h

Most motor graders in developing countries are used 4-6 hours per day. There is a prominent underutilization because:

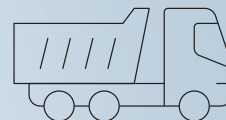
The motor graders are not purpose-designed specifically for these markets. The supporting conditions like material availability on-site are also not optimal.

INCREASED PRODUCTIVITY AND OPTIMUM UTILIZATION

Highest fuel efficiency in the segment, just like our **CE V** Backhoe Loader category.

Lowest per-hour scheduled maintenance cost. Lowest owning & operating cost in the industry.

G100 is used for road construction such as SH, NH Expansion, National Highway, MDR, ODR Roads, Railways Construction.



Around **9 Tipper** material in **1 hour**



BRAND-NEW CE V ENGINE. DRIVING YOUR PROFITS HIGHER.



MAHINDRA'S PROVEN ENGINE NOW OFFERS BEST-IN-CLASS FUEL EFFICIENCY FOR BETTER SAVINGS.

Mahindra has taken its learnings from tractor engines to bring its fuel consumption down impacting the overall savings of our customers positively.

The **76 kW (102 HP), 3.5 litre, 4 cylinder** CRDI engine offers **440 Nm torque** for high-level grading performance.

The proven Mahindra engine offers assured reliability.

This is a low maintenance engine with a widespread availability of parts.

10% better torque compared to BS IV

A PLETHORA OF FEATURES. A PROMISE OF PROFITABILITY.

HYDRAULICS

New and improved hydraulic pump for smooth performance. Higher maximum pressure around 200 bar for more power on blade. Bigger size of 26+26 cm³ gear pump for increased per-hour productivity.

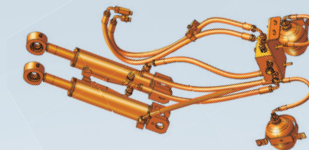
CIRCLE ASSEMBLY

Easy adjustable Wear pad arrangement increases life of mold board & circle assembly

PERFORMANCE

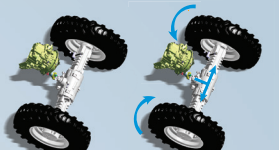
DAMPENING CYLINDER

Ensures comfort in road marching and stops fluctuation during grading in final cut. Ensures more comfort to the operator and better finishing during the last cut of grading.



FINAL DRIVE WITH DIFFERENTIAL LOCK

100% Mechanical Differential Lock helps in higher power generation and equal distribution of motion in the rear tyres. Ensures better performance in grading and is useful on muddy, marshy soils. The machine does not get stuck anywhere.



INTRODUCTION OF ELECTRONIC POWER SHIFT TRANSMISSION

Ensures smooth gear shifts, enhanced fuel efficiency, and reduced operator fatigue. It provides better torque control, improving performance and durability in challenging terrains.



CONVENIENCE & COMFORT

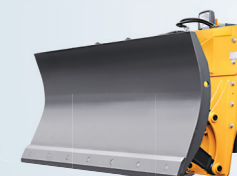
Mahindra believes that the most important part of the machine is the person operating it. That's why we have worked hard to make the operator experience comfortable for long hours of work. Ergonomic layout and seating - so that all controls are smooth and easy to reach. Including spacious canopy, lockable storage and mobile charging.



MOLDBOARD & BLADE RANGE

Longer moldboard base length, increased support, less vibration, and blade length of 3000 mm for better quality work and finishing. Higher Rotation angle of around 50° from the transverse of the vehicle provides faster grading in heavy material. Blades easily accommodate between tyres while the machine is travelling. This helps in a smooth machine movement.

ATTACHMENT



HEAVY DUTY DOZER BLADE

Standard Attachment: The RoadMaster G100 comes with the Standard Dozer Blade fitment. This adds power and efficiency in the grading process as the Dozer breaks the material stock in advance.



5 TYNE RIPPER

Optional Attachment: The RoadMaster G100 comes with the option of having additional ripper fitments for added versatility. The Ripper is perfect for ripping hard compacted surfaces before grading.



MAHINDRA IMAXX CONTROL YOUR BUSINESS FROM YOUR POCKET

