ENGINE	
Model	G80 D
Form of Air Aspiration	Turbo Charged
Number of Cylinders	4
Displacement	3532 cc
High idle	850±50
Low idle	2150±50
Cooling system	Water cooled
Type of fuel	Diesel
Gross power	55kw(74hp) @ 1950 rpm
Peak gross torque	400Nm @ 1100 -1200 rpm
Electrical system voltage	12 V

OPERATING SPECIFICATIONS			
Gross Vehicle Weight		7738	
Front Axle Weight		3196	
Rear Axle Weight		4542	
Speed @gear (Km/hr.)		Forward	Reverse
	1st	4.5 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 (m)	R1	10	
Steering angle inner wheel (degree)		45°	
Steering angle outer wheel (degree)		32°	

MOLD BOARD		
Base length of MB (mm)		3000
Thickness of Mold board (mm)		16
Blade Height (mm)	H19	516

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

FRONT AXLE	
Type	Non-Driven, Steerable, Central Pivoted
Front Axle Oscillation (degree)	10°

REAR AXLE	
Type	Driven, Non-Steerable, Rigid

TYRES & WHEELS	
Type	13 x 24 - 12PR (Front)
	17.5 x 25 - 16PR (Rear)
Wheel rim size	9 x 24
	14 x 25

TYRE PRESSURE	
Front/Middle/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
Max Pump Flow rate	96 lpm @ 1950 rpm
Max Working pressure	210 bar
Other Features	Load holding with pressure relief valves for lift and sensing cylinder

DIMENSIONS		
Wheel base	L3	5050
Distance - Front axle to mold board blade base (mm)	L12	1691
Transport length - with Dozer (mm)	L1	7360
Ground clearance below front axle beam (mm)	H18	528
Minimum ground clearance (mm)	H4	368
Max vehicle height (mm)	H1	3300
Track width - Front (mm)	W3F	1674
Track width - Rear (mm)	W3R	1739
Width - outside front tires (mm)	W1F	2021
Width - outside rear tires (mm)	W1R	2207

BLADE RANGE		
Circle rotation angle AB	50° from transverse of vehicle	
Circle drive	Hydraulic cylinders with no end mechanical stoppers	
Blade side shift (mm) - LH/RH		513
Blade tilt angle/Bank cut angle (RH/LH) at ground level measured on blade (degree)	A9	(20°/15°)
Blade tilt angle/bank cut angle (RH/LH) at ground level measured on drawbar (degree)	A9	(25.6°/20°)
Blade pitch angle at ground line (degree)	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 (mm)	D	300

END BIT		
Width (mm)	C	200
Thickness	(mm)	16
Blade pull force	kN	27
Blade down force	kN	27

SERVICE CAPACITIES	
Hydraulic Oil (L) - Replacement	50
Hydraulic oil (L) - System	70
Fuel Tank (L)	100
Engine coolant (L)	17
Engine oil (L)	13.5
Transmission (L) - Replacement	16
Middle axle or rear axle (Differential) - (L)	14.5
Middle axle or rear axle (Final drive) - (L)	1.5 (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
Pump Displacement (cc)	200
Streering Valve	Load sensing with priority valve
Other Features	Emergency steering in case of pump failure

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 wary. E&O.E. All dimensions are variable within +/-5%. For further details on warranty, please visit your nearest dealer.

DEALER NAME

ROADMASTER G80 D

Mahindra Construction Equipment, Mahindra & Mahindra Ltd. | MCE division | Plot No #A-1/1 , Chakan Industrial Area, Phase-IV, Village Nigoje Chakan, Taluka-Khed, Dist: Pune - 410501, Maharashtra, India.
Toll Free Helpline: 1800 547 0086, **Website:** www.MahindraConstructionEquipment.com **Email:** mce.marketing@mahindra.com

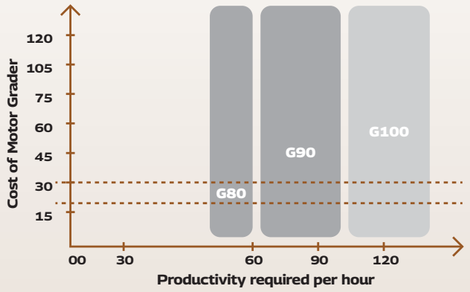
G80 ROAD NOVEMBER 24

mahindra
CONSTRUCTION EQUIPMENT

PROFIT KA PARTNER

ROADMASTER G80 D

THE PROBLEM: UNDERUTILISATION.



Underutilisation 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 between 4-6 hours per day. There is a prominent underutilisation 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 UTILISATION

Best-in-class fuel efficiency in the segment, just like our **CEV V** Backhoe Loader category. Lowest per-hour scheduled maintenance cost. Lowest owning & operating cost in the industry. G80, is used for rural roads, PMGSY projects, district roads, land development, internal housing and commercial roads.

Around **3 Tipper** material in **1 hour**

BRAND-NEW CEV 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 **55 kW (74 HP) 3.5 litre, 4 cylinder** CRDI engine offers **400 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.

16% better torque compared to CEV IV

A PLETHORA OF FEATURES. A PROMISE OF PROFITABILITY.

HYDRAULICS

New and improved hydraulic pump for smooth performance. Higher maximum pressure around 20 MPa 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

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.

OPERATOR STATION

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.

BLADE RANGE

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.

MAHINDRA iMAXX CONTROL YOUR BUSINESS FROM YOUR POCKET

The Mahindra RoadMaster G80 comes with the latest Mahindra iMAXX telematics technology. You can think of it as your personal assistant. An app that monitors and updates you about your vehicle's health, its fuel efficiency, its live location, its operator's competence, and much more.