

GR150 II Motorgrader

Rear ripper, Front dozer blade and Mid-mounted ripper comes as optional attachments with every grader. These are hydraulically operated. The rippers can accommodate up to 11 teeth.



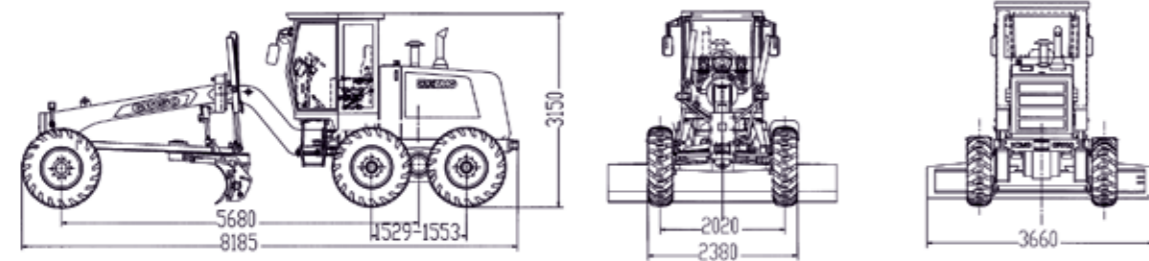
Overload Protection Worm-Gear Case: The torque for operating the mold board is transmitted through a unique gear box, which not only transmits the torque but also acts as an overload protection by a patented slip mechanism for the board.



Slew Bearing : Slew bearing of turn table is compact in structure and fully enclosed type. This gives an advantage of operating it in a dusty environment. The steel material provides lesser wear, longer service life and this is maintenance free structure.

Adjustable Spout with Double Slide-Way Mechanism: Two adjustable slide ways are provided at the top and bottom of the blade to improve precision during maximum shoulder reach of the blade.

Overall dimensions (mm)



Main Technical Parameters

Basic parameters	Engine Type	6BTA5.9-150C
	Rated Power	112 kW (150 hp)
	Engine Speed	2200 rpm
	Overall Dimension of Standard Configuration (L x W x H)	8185 x 2380 x 3150 mm
	Complete Weight of Machine for Standard Configuration	12500 kg
	Tire Size	13.00-24 (12 Ply)
Mold Board	Ground Clearance (Front Axle)	410 mm
	Width – Tire Centre Lines	2020 mm
	Length - Front Axle to Mid Tandem	5680 mm
	Length – Between Tandem Axles	1529 - 1553 mm
	Turning Radius	6600 mm
	Maximum Cutting depth	515 mm
Performance parameters	Cutting angle	54 - 90 deg
	Angle of revolution	360 deg
	Length x string height	3660 x 610 mm
	Maximum tilt angle	90 deg
	Maximum lifting height from ground	410 mm
	Distance Between Front Axle and Rear Axle	5680 mm
Performance parameters	Middle and Track Rear	1538 mm
	Speeds in Forward Gear	5, 8, 13, 20, 30, 42 km/h
	Speeds in Reverse Gear	5, 13, 30 km/h
	Traction (f=0.75)	70 kN
	Gradeability	25 Deg
	Tire inflation pressure	260 kPa
	Working Pressure	20 MPa
	Gearbox Pressure	1.3-1.8 MPa

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The Data given in this brochure are subject to change without notice.



**SCHWING
Stetter**

Reliable and Ergonomical

Engine

- 6BTAA5.9-150C, 6 Cylinder Cummins Engine.
- Complying with BSIII emission norms.
- Two stage fuel filtering system.
- Economic fuel consumption and low noise.
- Turbocharged, with dual entry to turbo charger.

Operator Cabin

- Air conditioned and spacious cabin.
- Greater visibility of operating environment.
- Equipped with horn, side rear view mirror and middle rear view mirror.
- Operating Lights at the front and back.
- Equipped with parking and service brakes.
- Anti slip platforms and steps.

Turn Table

- Patented slip mechanism for mold board protection.
- Slew bearing with high quality steel improves the wear life of slewing gear and the casing protects it from dusty environment.

Transmission

- Electro hydraulic controlled power shift gear box.
- 6 forward gears and 3 reverse gears.

Mold Board

- Hydraulically operated blade pitch mechanism.
- Adjustable twin guide rails for blade side shift, this improves operating precision.

Axle

- Rear axle is the driving axle from Meritor axle.
- Double circuit hydraulic brake system.
- Automatically adjustable brake pads.

Operator Comfort

- Electro hydraulically controlled gear shift mechanism.
- Two way adjustable operator seat - Front / Back and Up / Down.
- Adjustable steering wheel and dash board.
- Ergonomically designed accelerator pedal to reduce fatigue.
- Cruise Control.

Optional Attachments

The attachments are hydraulically operated.

- Front mounted Dozer blade.
- Mid mounted scarifier
- Rear mounted Ripper.
- Front Scarifier.
- Hydraulic Pull Pin.
- Automatic Levelling System.
- Hydraulic Load Sensing System.

Steering

- Front wheel and articulated frame steer.
- Crab steering.
- Patented design for front axle lean and steering.
- Articulated steering to achieve lower turning radius.

Engine Hood

- Patented Engine hood design for easy maintenance of engine.
- Hood operated by a hydraulic hand pump.



GR150 II Motorgrader

Product Introduction

GR150 II is a 150 HP (112 kW) Motor Grader which is strategically chosen to suit the Indian market, keeping in mind the prevailing market trend and customer expectations. This product has adopted the best features from its variants to give our customers a reliable product for some of the toughest working conditions. This is an ARAI certified product and can be used in various applications such as road building, cutting a ditch, earth moving or fine grading clearing debris and removing snow.

Performance Characteristics

Powered by Cummins India's 6 cylinder engine with double fuel filter and dual entry for turbo charger meeting the Bharat Stage III Emission Norms. It is highly reliable, fuel economic, silent in operation and has lower emission.



Gear box is an electro hydraulic power shift type with torque convertor. Smooth gear shifting. Speeds are 6 forward and 3 backward.



It adopts a front wheel and articulated frame steering. The articulated frame with a maximum steering angle of $\pm 27^\circ$ and a minimum turning radius of 6.6 m makes the operator to efficiently manoeuvre the machine.



Hydraulic components are from renowned manufacturers and are highly reliable. Load sensing system which is available as an option can provide the operator a better control and efficient utilization of engine power.



The operator seat is two way adjustable (Up & Down, Front & Back directions). The cabin comes with an anti skid flooring. Control lever, joystick are ergonomically designed to reduce fatigue and increase the operator comfort.



Mold board is hydraulically controlled and has maximum curvature to help grade different types of soil efficiently. Blade can be positioned for grading up to 90° on either side.



Rear axle is the drive axle from Meritor, adopts a balance suspension method, differential mechanism ensures that the machine has enough traction. Service brake is of double circuit hydraulic system and are applied to four wheels for efficient braking.



Product Highlights

Comfortable operation

Dash Board: Attractive dash board having both digital and analogue display of all the critical parameters to control the vehicle. Bright LCD lighting gives the operator a good view when the machine is operated during night time.



Hydraulically Driven Engine Hood Operation: For easy maintenance of engine and to reduce the operator fatigue, the engine hood is operated by hydraulic hand pump.



Electronic Control Handle: This enables the operator the ease of shifting the gears and toggle between forward and reverse gears at the touch of a button. Also we have a digital display of gear positions. It also has cruise control, this eliminates the operator fatigue as he need not to be on the accelerator pedal every time.

