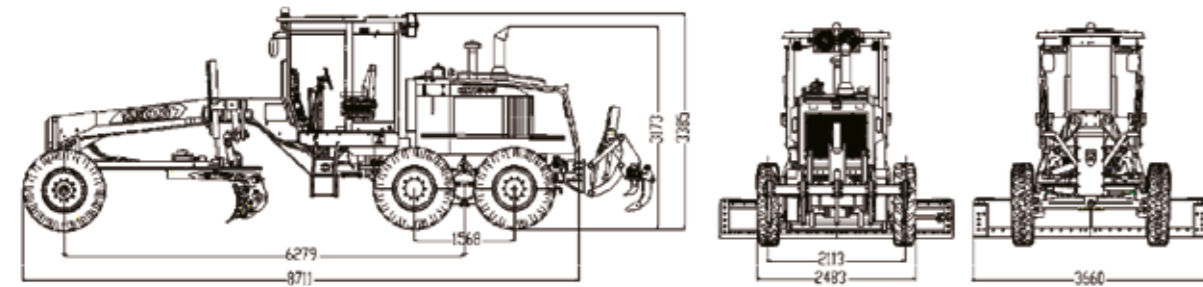


## GR1605 Motorgrader

### Overall dimensions (mm)



### Main Technical Parameters

Basic parameters	Engine type	QSB5.9 (Cummins)	
	Rated power/Speed	140-170HP/2200rpm	
	Machine dimension(standard)	8711×2473×3385	
	Machine weight(standard)	13500 kg	
	Tyre specification	14.00-24	
	Ground clearance (Front axle)	586mm	
	Wheel base	2113mm	
Performance parameter	Axle distance between front and rear	6279 mm	
	Wheel base between middle and rear	1568 mm	
	Forward speed	5 8 13 18 30 47km/h	
	Reverse speed	5 13 30km/h	
	Traction force	71 kN	
	Maximum gradeability	25%	
	Inflation pressure of tire	260kPa	
	Work system pressure	25MPa	
	Gear box pressure	2Mpa	
	Working parameters	Maximum steering angle of front wheel	±48°
Allowable angle of inclination of front wheel		±18°	
Maximum swinging angle of front axle		±16°	
Maximum swinging angle of balance box		Front 15°, rear 15°	
Maximum steering angle of frame		±20°	
Minimum turning radius		7.4m	
Blade		Maximum lifting height	410mm
		Maximum scraping depth	715mm
		Maximum tilt angle	90°
		Cutting angle	29°—69°
	Angle of revolution	360°	
Oil filling capacity	Length X height	3660×610mm	
	Coolant	50L	
	Fuel tank	380L	
	Engine	24L	
	Transmission box	38L	
Balance box	60L		
Drive axle	36L		
Hydraulic oil	170L		

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Tel : 044 - 71378100 / 106 Fax : 044 27156539  
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Email : hyderabad@schwingstetterindia.com

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**Pune :** Baner Biz Bay, A Wing, 7<sup>th</sup> Floor, Office No. A-701 & 702, Baner Road, Near D-Mart, Pune - 411 045.  
Email : pune@schwingstetterindia.com

**Coimbatore :** 2005, Trichy Road, Old Rajalaxmi Mills, Singanallur, Coimbatore-641005. Tel: 0422 3223660  
Email : coimbatore@schwingstetterindia.com

**Raipur :** NH-6, Opposite Vardhaman Motor, Kumahari, Dist - Durg, Chhattisgarh - 490042.  
Tel : 07821 247066  
Email : sunil.kumar@schwingstetterindia.com

**Patna :** C/o. House of Ashok Kumar Rana, Ground & First Floor, Samridhi Bhawan, Agamkuan Road, Shivaji Colony, Pahari More, Patna - 800007, Bihar. Tel : 09570996702  
Email : rajiv.chandra@schwingstetterindia.com

**Surat :** Shop No. 128, First Floor, Aagam Orchid, TP Scheme No 6, Opp. Shiv Kartik Complex, Off VIP Road, Nr. Shrunagar Building, Nr Nandini 2, Vesu, Surat-395007 Tel : 08980002726  
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**Goa :** C/o Agarwal Packers and Movers Limited, Plot No X-1, Verma Industrial Estate, Verma, Goa - 403722. Tel: 09820203847  
Email : sohit.chakhaiyar@schwingstetterindia.com

**Nagpur :** C/o Amrut Dairy Farm, No. 118, Opp VCA Stadium, Jamtha, 16th KM Milestone, NH-7 Wardha Road, Nagpur - 441108. Tel : 09820203847  
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## Main technical characteristics

### Power system

Transmission system is rear four wheel drive system. Cummins QSB5.9 with electronic fuel injection engine conforming to BSIII emission standards, large output torque and power reserve coefficient, low fuel consumption. Engine variable power control technology makes the machine work with best fuel consumption. Using the power shift hydraulic transmission box, 6 gears for forward, 3 gears for reverse, the rear axle adopts the reverse wet type brake drive axle for effective braking and maintenance free. It has low-pressure wide base engineering tire and the pattern shape is herringbone. It has large section size, good elasticity, high grounding ratio and good off-road performance and adhesion property.

### Interior trim parts and electrical appliances

Hermetic cab including air conditioning system, the interior design is made of high quality and smooth materials. The ergonomic switch board is centralized, the optimized distribution of air conditioning duct, fully embodies the human-machine engineering needs. The control console is the split type instrument desk, and the mobile instrument part can realize electric control, humanized design makes the manipulation more comfortable. The electrical system consists of liquid crystal display, control box, wire harness, detection sensor, various lighting and driving indicator lights. The engine running, driving, various lighting and driving indicators, wiper and horn can be controlled. The engine, torque converter, hydraulic system, braking system, storage battery charging and discharging and all kinds of filter can be monitored here, feedback of the machine status can be provided instantaneously to the operator.

### Front axle

The front axle structure is designed to be more reliable, and the imported high strength hub bearing has higher bearing capacity. The front axle has large lean angle, the axle body can swing from side to side. The turning radius is further reduced to improve the machine mobility. In addition to the front steering, it also uses the articulated frame, which can further reduce the turning radius.



### Working devices

The working device consists of the hitch frame, the turn circle, the blade and the angle adjustment device, etc. The ball joint at the front end of the hitch frame, articulates with the frame and allows arbitrary rotation around the ball joint. The turning circles at the hitch frame can rotate under drive while slewing to turn the blade. Two sliding rails behind the blade support the chute's angle adjustment device. Side shifting realization is done by the cylinder. The standard equipped large modulus rotary support and overload protection worm gear box ensures high reliability of the whole working device, the optimized blade arc and shovel angle ensures better operation performance.

### Optional Attachments

- Front dozer blade
- Rear ripper
- Mid mounted scarifier
- Front mounted scarifier

### Hydraulic system

The load sensing hydraulic system is composed by three main parts:

**Operating hydraulic system:** Mainly composed of the oil tank, variable plunger pump, load sensor, two integrated five-link multi-channel commutation valve and the hydraulic cylinder, motor and pipeline of each operating unit. The system adopts the variable piston pump and two integral load sensing multi-reversing valve, which forms the load sensing control system, and the variable piston pump is installed in the main suction port of gearbox. The pump will only distribute the output according to the requirement of the operating system. It can reduce noise and save energy.

**Steering hydraulic system:** As the grader works often in the loose land, the steering resistance is big, in order to reduce the intensity of the driver's operation, the machine front wheel steering utilizes the load sensing hydraulic steering device. They are composed of variable plunger pumps, priority valves, load sensing all-hydraulic steering gear. This is used to control the steering of the front wheel.

**Service braking system:** Double-loop hydraulic system, which operates on the four rear wheels of the motor grader. They are made up of variable displacement piston pump, brake valve, oil filling valve, accumulator, brake cylinder, etc. Used to control the service brake.

### Braking system

The braking system consists of service brake system (i.e. the foot brake) and the parking brake system (i.e. hand brake). The service brake is a double-circuit hydraulic braking system, which acts on the rear wheels of the motor grader. The parking brake system consists of the manipulator and brake. The brake is mounted on the output end of the power box, and use the brake handle to brake the middle and rear wheel.

## GR1605 Motorgrader

### Product Introduction

GR1605 motor grader is mainly used for ground leveling, ditching, slope scraping, bulldozing, scarification, snow removal for large areas such as highway, airports, farm lands and for many other applications. It is the necessary construction machinery for national defense construction, mine construction, urban and rural road construction and water conservancy construction, farm land improvement and so on.



Powerful thrust



Higher ground clearance



Powerful revolution



Comfortable operation



High efficiency and energy saving