



# GR1605

## MOTOR GRADER

平地机

GR1605 is mainly used for large ground surface leveling, ditching, slope scraping, bulldozing, scarifying, snow removing and other work in highway, airport and farmland. The grader is necessary engineering machinery for national defense construction, mine construction, urban and rural road construction, water conservancy construction and farmland improvement, etc.

GR1605平地机主要用于公路、机场、农田等大面积的地面平整和挖沟、刮坡、推土、松土、除雪等作业。是国防工程、矿山建设、城乡道路等建筑施工和水利建设、农田改良等所必须的工程机械。

## Performance Characteristics / 性能特点

- Uses Cummins turbocharged diesel engine. Large output torque and power reserve coefficient and low oil consumption. Engine variable power control technology makes the machine work under the best fuel consumption area, more energy efficient.
- Torque converter has big torque ratio, high efficiency and wide high efficiency area. Better combined work characteristics can be achieved when the torque converter is matched with engine. Transmission has 6 forward gears and 3 reverse gears. It has neutral start protection function. Gears will be easily shifted by electrohydraulic control. During gear shift process, there is no impact, speed ratio distribution is reasonable, and various work requirements can be satisfied.
- The rear axle adopts balanced suspension to ensure the uniform load of four wheels, which is conducive to the full use of its adhesion ability. The main drive of the rear axle is equipped with "NO - SPIN" self-locking differential.
- The front axle is steering axle. The axle can swing from side to side. In addition to the front steering, it also uses the articulated frame, which can further reduce the turning radius.
- The hood is structural part, well shaped with turn over function, the two sides double door is reversible, enhances the maintainability.
- 采用康明斯涡轮增压柴油机。输出扭矩和功率储备系数大，油耗低。采用发动机变功率控制技术，使整机更加节能。
- 变矩器变矩系数大、效率高、高效区宽，与发动机匹配具有良好的联合工作特性。变速箱为前进六档，后退三档，具有空档起动保护功能，档位变换为电液控制，操纵灵活，换挡时无冲击，速比分布合理，满足了各种工况要求。
- 后轴采用平衡悬挂方式能够保证四个车轮负荷均匀，有利于充分发挥它的附着能力。后桥主传动装有“NO—SPIN”无自转自锁差速器。
- 前桥为转向桥。桥体可左右摆动。该机除前轮转向外，还采用了铰接车架，可使转弯半径进一步减小。
- 机罩采用结构件，造型美观流畅，两侧开侧门，整体可翻转，提高了维修性。

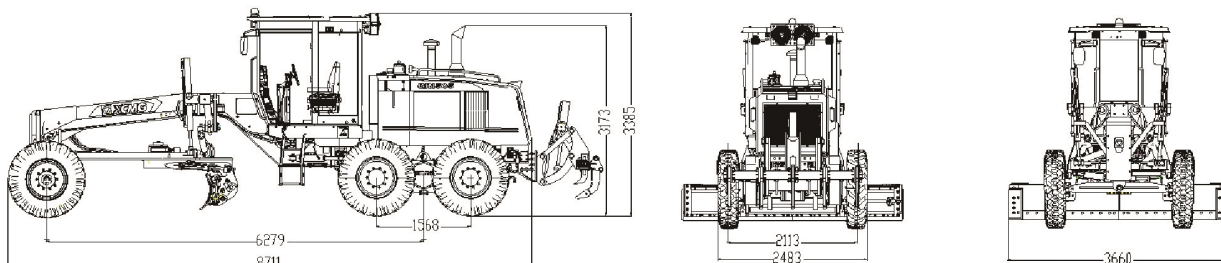
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## Main Dimensions

主要尺寸



## Main Specifications

主要技术参数

	Item	项目	单位 Unit	GR1605		
Basic parameters 基本参数	Engine model	发动机型号		QSB5.9		
	Rated power/speed	额定功率/转速	kW/rpm	125/2200		
	Overall dimension (standard)	整机外型尺寸（标配）	mm	8711×2483×3385		
	Total weight (standard)	整机重量（标配）	kg	14500		
	Tire specification	轮胎规格		14.00-24		
	Ground clearance (front axle)	离地间隙（前桥）	mm	586		
	Tread	轮距	mm	2113		
	Space of front and rear axles	前后桥距	mm	6279		
	Space of middle and rear wheels	中后轮距	mm	1568		
Performance parameters 性能参数	Forward velocity	前进速度	km/h	5、8、13、18、30、47		
	Reverse speed	后退速度	km/h	5、13、30		
	Tractive effort f=0.75	牵引力f=0.75	kN	≥75		
	Maximum gradeability	最大爬坡能力	%	≥25		
	Inflation pressure of tires	轮胎充气压力	kPa	260		
	Working system pressure	工作系统压力	MPa	22		
	Transmission pressure	变速箱压力	Mpa	2		
Working parameters 工作参数	Maximum steering angle of front wheels		前轮最大转向角	°	±48	
	Maximum inclination angle of front wheels		前轮最大倾斜角	°	±18	
	Maximum swing angle of front axle		前桥最大摆动角	°	±16	
	Maximum swing angle of balance box		平衡箱最大摆动角	°	±15	
	Maximum steering angle of frame		车架最大转向角	°	±20	
	Minimum turning radius		最小转弯半径	m	7.2	
	Blade	Maximum lifting height	铲刀	最大提升高度	mm	410
		Maximum shoveling depth		最大铲土深度	mm	715
		Maximum lateral inclination angle		最大侧倾角度	°	90
		Cutting angle		切削角	°	front 40    rear 5
Slewing angle		回转角		°	360	
Length × chord height		长度x弦高		mm	3660 × 610	
Oil filling amount 加注油量	Coolant	冷却液	L	50		
	Fuel tank	燃油箱	L	380		
	Engine	发动机	L	24		
	Transmission	变速箱	L	38		
	Balance box	平衡箱	L	60		
	Drive axle	驱动桥	L	36		
	Hydraulic oil	液压油	L	170		





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