

# GR165

## MOTOR GRADER

平地机

The motor grader is mainly used for ground leveling, ditching, slope scraping, bulldozing, scarification, snow removal for large areas such as highway, airports, farmlands etc. It is the necessary construction machinery for national defense construction, mine construction, urban and rural road construction and water conservancy construction, farmland improvement and so on.

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

- This machine is equipped with turbocharged diesel engine. Large output torque and power reserve coefficient and low oil consumption.
- The drive axle is Special for XCMG used rear axle. 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. If one side of the wheels is slipping, the other side can still deliver its original torque. Therefore, enough traction be can ensured under any road conditions.
- 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.
- Sealed cab includes air conditioning system, the interior design is made of high quality and smooth materials, fully embodies the man-machine engineering needs.
- 采用涡轮增压柴油机。输出扭矩和功率储备系数大，油耗低。
- 驱动桥为徐工专用后桥，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。当一侧车轮打滑时，另一侧车轮仍然能传递其原有扭矩。因此，无论路面情况如何均能保证整机有足够的牵引力。
- 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。
- 采用密封驾驶室，配置空调系统，内饰件为造型流畅的压塑件，充分体现了人机工程的需要。





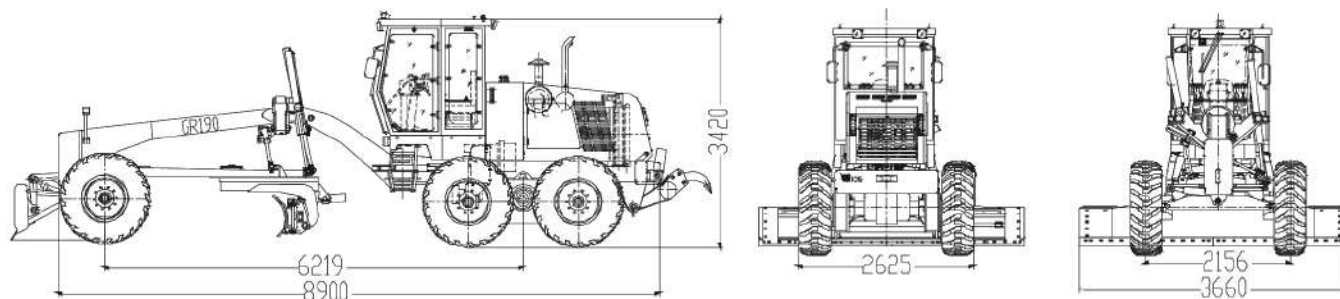
# GR165

# MOTOR GRADER

平地机

## Main Dimensions

主要尺寸



## Main Specifications

主要技术参数

	Item	项目	单位 Unit	GR165
<b>Basic parameters</b> 基本参数	Engine model	发动机型号		6BTA5.9-C180- II
	Rated power/speed	额定功率/转速	kW/rpm	132/2200
	Overall dimension (standard)	整机外型尺寸 (标配)	mm	8900 × 2625 × 3420
	Total weight (standard)	整机重量 (标配)	kg	15000
	Tire specification	轮胎规格		17.5-25
	Ground clearance (front axle)	离地间隙 (前桥)	mm	430
	Tread	轮距	mm	2156
	Space of front and rear axles	前后桥距	mm	6219
<b>Performance parameters</b> 性能参数	Space of middle and rear wheels	中后轮距	mm	1538
	Forward velocity	前进速度	km/h	5、8、11、19、23、38
	Reverse speed	后退速度	km/h	5、11、23
	Tractive effort f=0.75	牵引力f=0.75	kN	≥77
	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	16
	Transmission pressure	变速箱压力	Mpa	1.3—1.8
<b>Working parameters</b> 工作参数	Maximum steering angle of front wheels	前轮最大转向角	°	± 50
	Maximum inclination angle of front wheels	前轮最大倾斜角	°	± 17
	Maximum swing angle of front axle	前桥最大摆动角	°	± 15
	Maximum swing angle of balance box	平衡箱最大摆动角	°	front15,rear 15
	Maximum steering angle of frame	车架最大转向角	°	± 27
	Minimum turning radius	最小转弯半径	m	7.3
	<b>Blade</b>	Maximum lifting height	mm	450
		Maximum shoveling depth	mm	500
		Maximum lateral inclination angle	°	90
		Cutting angle	°	28—70
		Slewing angle	°	360
		Length × chord height	mm	3660 × 610
<b>Oil filling amount</b> 加注油量	Coolant	冷却液	L	50
	Fuel tank	燃油箱	L	280
	Engine	发动机	L	24
	Transmission	变速箱	L	38
	Balance box	平衡箱	L	46
	Drive axle	驱动桥	L	28
	Hydraulic oil	液压油	L	110











