



# GR1805

## 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., also can be used in heavy duty. 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,也可用于重载工况及矿区。是国防工程、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

- Utilizing load sensitive hydraulic system, small control force, good control feeling, realizing micro control.
- Engine variable power control technology, more energy efficient.
- Intelligent fan control technology enables fan speed changing with the real-time detected system temperature, low energy consumption and low noise.
- Elevated cabin allows bigger operation space.
- Optimal arrangement of the air conditioning flue, integration with cab interior design, better air conditioning effect.
- Advance antivibration and noise reduction technology, low noise of the whole machine
- The working device is more reliable with the integral angle position device, high strength rotary support and overload protection gearbox.
- 采用负荷传感液压系统, 操纵力小, 操纵感好, 可以实现微动控制。
- 采用发动机变功率控制技术, 更加节能。
- 采用智能风扇控制技术, 风扇转速可根据实时监测的系统温度而变化, 能耗低、噪音小。
- 采用增高型驾驶室, 驾驶室内部空间大。
- 空调风道与驾驶室内饰集成化设计, 更加美观, 空调效果更佳。
- 采用先进的减震降噪技术, 整机噪声小。
- 采用整体式角位器、高强度回转支承与过载保护蜗轮箱, 工作装置可靠性更高。

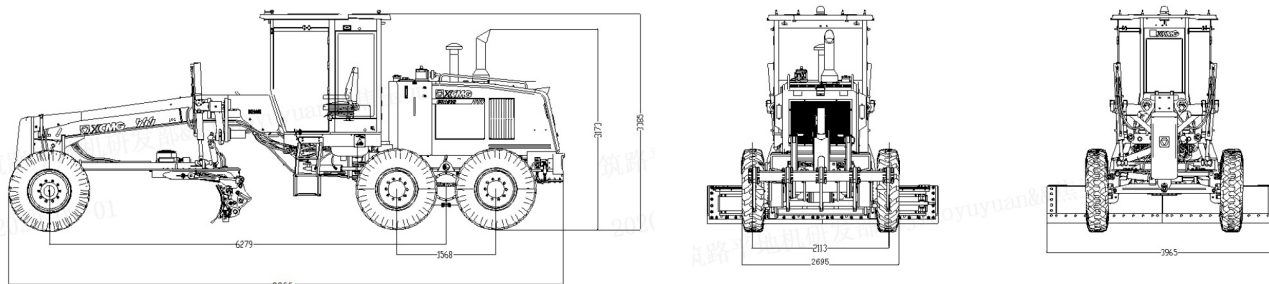
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### 主要尺寸

#### Main Dimensions (mm)



### 主要技术参数

#### Main Specifications

项目 Item		单位 Unit	GR1805	
Basic parameters 基本参数	发动机型号 Engine Model		SC7H190	
	额定功率/转速 Rated Power/Speed	kW/rpm	140/2200	
	整机外型尺寸 (标配) Dimension (Standard)	mm	8866x2695x3385	
	整机重量 (标配) Total Weight	kg	15400	
	轮胎规格 Tire Specification		17.5-25	
	离地间隙 (前桥) Ground Clearance (Front Axle)	mm	586	
	轮距 Wheel-Base	mm	2113	
	前后桥距 Space of Front and Rear Axles	mm	6279	
Performance parameters 性能参数	中后轮距 Space of Middle and Rear Wheels	mm	1568	
	前进速度 Forward Speed	km/h	5、8、13、18、30、47	
	后退速度 Reverse Speed	km/h	5、13、30	
	牵引力 $f=0.75$ Traction Force( $f=0.75$ )	kN	$\geq 79$	
	最大爬坡能力 Max. Gradeability	%	$\geq 25$	
	轮胎充气压力 Inflation Pressure of Tires	kPa	260	
	工作系统压力 Pressure of Working System	MPa	25	
	变速箱压力 Pressure of Transmission Box	Mpa	2	
Working parameters 工作参数	前轮最大转向角 Max. Steering Angel of Front Wheels	°	$\pm 48$	
	前轮最大倾斜角 Max. Inclination Angle of Front Wheels	°	$\pm 18$	
	前桥最大摆动角 Max. Swing Angle of Front Axle	°	$\pm 16$	
	平衡箱最大摆动角 Max. Swing Angle of Balance Box	°	$\pm 15$	
	车架最大转向角 Max. Steering Angle of Frame	°	$\pm 20$	
	最小转弯半径 Min. Turning Radius	m	7.2	
	铲刀 Blade	最大提升高度 Max. Lifting Height	mm	410
		最大铲土深度 Max. Cutting Depth	mm	715
		最大侧倾角度 Max. Inclination Angle	°	90
		切削角 Cutting Angle	°	front15,rear 15
回转角 Slewing Angle		°	360	
长度x弦高 Length×Chord Heingt	mm	3965 × 610		
Oil filling amount 加注油量	冷却液 Coolant	L	50	
	燃油箱 Fuel Tank	L	380	
	发动机 Engine Oil	L	24	
	变速箱 Transmission	L	38	
	平衡箱 Balance Box	L	60	
	驱动桥 Drive Axle	L	36	
	液压油 Hydraulic Oil	L	170	



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 <https://www.machmall.com/>

 [machmall@xcmg.com](mailto:machmall@xcmg.com)

 0086 18652183963  
86-516 8773 9797