



# GR2405

## 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 and mining areas. 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. This specification is applied for machine type of GR2405.

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、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。该规格书包含车型为GR2405。

## 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;
- Wet type brake axle, long lifetime, higher reliability;
- 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 worm gearbox.
- Torque converter interlock technology, higher transmission efficiency.
- 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。
- 采用湿式制动驱动桥, 使用寿命长, 可靠性更高。
- 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。
- 采用变矩器闭锁技术, 传动效率更高。



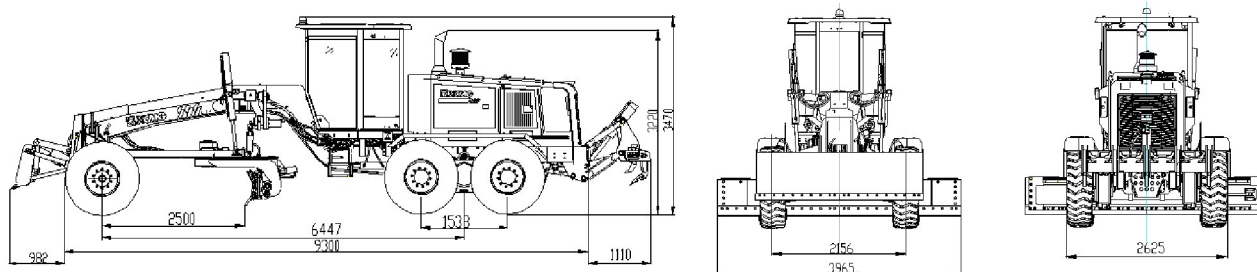
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平地机

## Main Dimensions

主要尺寸



## Main Specifications

主要技术参数

	Item	项目	GR2405	
<b>Basic parameters</b> 基本参数	Engine model	发动机型号	QSB6.7	
	Rated power/speed	额定功率/转速	178kW/2200rpm	
	Overall dimension (standard)	整机外型尺寸 (标配)	9300 × 2625 × 3470 mm	
	Total weight (standard)	整机重量 (标配)	17000 kg	
	Tire specification	轮胎规格	17.5-25	
	Ground clearance (front axle)	离地间隙 (前桥)	586mm	
	Tread	轮距	2156mm	
	Space of front and rear axles	前后桥距	6447 mm	
	Space of middle and rear wheels	中后轮距	1538 mm	
	<b>Performance parameters</b> 性能参数	Forward velocity	前进速度	5、8、11、18、25、40km/h
Reverse speed		后退速度	5、11、25km/h	
Tractive effort f=0.75		牵引力f=0.75	≥88 kN	
Maximum gradeability		最大爬坡能力	≥25%	
Inflation pressure of tires		轮胎充气压力	260kPa	
Working system pressure		工作系统压力	22MPa	
Transmission pressure		变速箱压力	1.85-2.2Mpa	
<b>Working parameters</b> 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	± 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	前15°、后15° Front 15°, rear 15°	
	Maximum steering angle of frame	车架最大转向角	± 25°	
	Minimum turning radius	最小转弯半径	7.3m	
	<b>Blade</b>	Maximum lifting height	最大提升高度	480mm
		Maximum shoveling depth	最大铲土深度	715mm
		Maximum lateral inclination angle	最大侧倾角度	90°
		Cutting angle	切削角	29° —69°
Slewing angle		回转角	360°	
Length × chord height	长度x弦高	3965x610mm		
<b>Oil filling amount</b> 加注油量	Coolant	冷却液	50L	
	Fuel tank	燃油箱	270L	
	Engine	发动机	24L	
	Transmission	变速箱	38L	
	Balance box	平衡箱	60L	
	Drive axle	驱动桥	36L	
	Hydraulic oil	液压油	190L	