

GR5505

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.

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。

Performance Characteristics / 性能特点

- The friction-disc worm gearbox with overload protection is developed for the mining heavy load condition, which can slip automatically and protect the safety of the machine and personal.
- Load sensing hydraulic system is equipped with variable piston pump and load sensing multi-way valve, in order to improve operation comfort, the pilot independent electrical proportional valve, the main directional valve and relief valve are proportional valves.
- The service brake is a double - loop hydraulic braking system.
- For serious environment condition, to analyze the matching analysis of the cooling system, conduct flow field analysis to power compartment machine, reasonable layout of the cooling holes, seal the clearance around the radiator, form the "chimney effect" of air duct design, reduce the hot air vortex. At the same time, the optimized hood design, spray anti-vertigo paint, beautiful shape.
- The same time using ROPS&FOPS cabin to meet ISO standard. Equipped with air conditioning, adjustable suspension seat, equipped with wipers and defrosting vents to improve the comfort of operation.
- Spacious cabin design, three-dimensional air duct, good driving experience. Double handle operation can be selected on the handle operation, reducing the labor intensity by about 80%.
- 应对矿用重载工况, 开发具有过载保护的摩擦片式蜗轮箱, 受冲击时可自动滑转, 保护机器和人身的安全。
- 负荷传感液压系统, 配置变量柱塞泵和负荷敏感多路阀, 为提高操作舒适性, 采用先导独立电比例阀, 其每一联主换向阀和减压阀均为比例阀。
- 采用双回路液压制动系统, 作用于平地机的四个中后轮上。
- 针对恶劣环境工况, 进行散热系统的匹配分析, 对机器动力舱进行流场分析, 合理布置散热孔位置, 封闭散热器四周间隙, 形成“烟囱效应”的风道设计, 减少热风涡流。同时, 优化机罩造型设计, 喷涂防眩晕漆, 造型美观。
- 采用ROPS&FOPS驾驶室满足ISO标准。内设冷暖一体空调, 可调式悬浮座椅, 设有雨刷器和除霜风口增加操作的舒适性。
- 驾驶室宽敞设计, 立体全方位风道, 驾驶体验好。在手柄操作上可选配双手柄操作, 降低约80%的劳动强度。



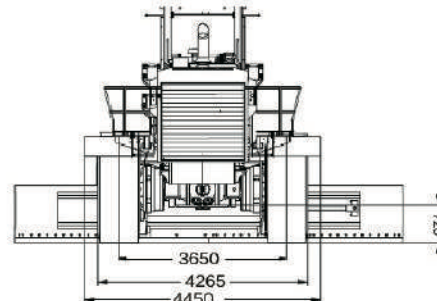
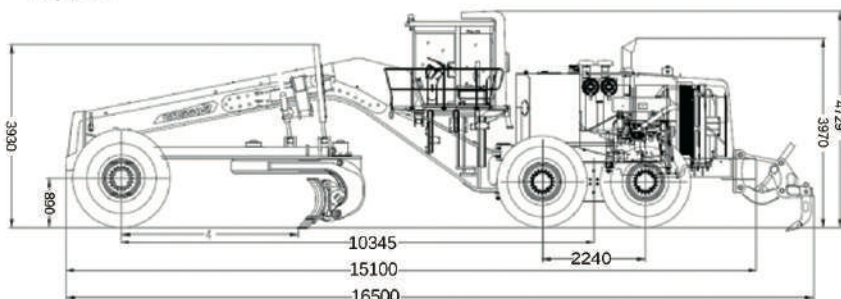
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平地机

Main Dimensions

主要尺寸



Main Specifications

主要技术参数

	Item	项目	单位 Unit	GR5505	
Basic parameters 基本参数	Engine model	发动机型号		2806D-E18TA	
	Rated power/speed	额定功率/转速	kW/rpm	447/2100	
	Overall dimension (standard)	整机外型尺寸 (标配)	mm	16500×4350×4729	
	Total weight (standard)	整机重量 (标配)	kg	74000	
	Tire specification	轮胎规格		29.5-29	
	Ground clearance (front axle)	离地间隙 (前桥)	mm	890	
	Tread	轮距	mm	3650	
	Space of front and rear axles	前后桥距	mm	10345	
	Space of middle and rear wheels	中后轮距	mm	2240	
Performance parameters 性能参数	Forward velocity	前进速度	km/h	4.6/5.9/8.7/11.7/17.7/25.1/32.2/42.7	
	Reverse speed	后退速度	km/h	4.5/8.7/17.2/32.6	
	Tractive effort f=0.75	牵引力f=0.75	kN	390	
	Maximum gradeability	最大爬坡能力	%	30	
	Inflation pressure of tires	轮胎充气压力	kPa	500	
	Working system pressure	工作系统压力	MPa	25	
	Transmission pressure	变速箱压力	Mpa	/	
	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	°	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	m	12.5	
Blade		Maximum lifting height	最大提升高度	mm	460
		Maximum shoveling depth	最大铲土深度	mm	553
		Maximum lateral inclination angle	最大侧倾角度	°	55
		Cutting angle	切削角	°	0-40
	Slewing angle	回转角	°	340	
	Length × chord height	长度×弦高	mm	7300 × 1025	
Oil filling amount 加注油量	Coolant	冷却液	L	75	
	Fuel tank	燃油箱	L	1200	
	Engine	发动机	L	72	
	Transmission	变速箱	L	120	
	Balance box	蜗轮箱	L	70	
	Drive axle	驱动桥	L	83	
	Hydraulic oil	液压油	L	300	