

The GR2153 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

GR2153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

- Energy saving and noise reduction: adopt low speed engine transmission line, low fuel consumption and energy saving and environmental protection;
 The transmission system is equipped with low speed ratio, and the average
 fuel consumption is reduced by about 8%. Three levels of engine, cab and
 seat vibration reduction; The cab is supported by six points; Deceleration of
 engine, cooling fan with large diameter, sound absorption sponge inside the hood, good sealing of the cab reduces noise of the whole machine
- Strong power: Shangchai efficient China stage III engine and hydraulic torque converter, the optimal torque converter achieves the best matching of torque converter and engine, reducing the start time, increase the work of torque output at low speed, strong and powerful. The optional herringbone tread tires, the adhesion can be increased by 10% in loosing soil and leveling, further enhance the power output.
- Rotation with load: improve the pressure of hydraulic system system, the rotary force of the blade, the high frequency quenching treatment improves the wear resistance and life span, and realize the rotation operation.
- Efficient operation: improves the displacement of hydraulic pump and hydraulic motor, increase the oil cylinder speed by 20%, realizes the industry leading work efficiency, the optimized blade shape can turn and remove the soil quickly and efficiently, and realize optimal load distribution and the minimum material accumulation within the rotary disc area.
- 节能降噪;采用低转速发动机传动路线,额定点的比油耗低,节能环保;传动系统进行低速 比配置,平均油耗降低8%左右;发动机、驾驶室、瘫椅三级减振;驾驶室六点组合支承;发 动机降频减速、风扇大直径低速比、机罩内贴吸音海绵、驾驶室良好密封,整机垛音降低。 动力强动;采用上垛高效图量变动率发动机,匹配液力变距器,选用最优的变距器循环圆直径,实现变矩器与发动机的最佳匹配,减少整车启动提速时间,加大低速工作时的扭矩输出,强劲有力。选配人字形花纹轮胎,在松土、平整等工况整车附着力可提升10%左右,进一步提升动的输出。
- 出,强烈特力。这些人子形化以形形,在18年上,并是一个是提升动力输出。 一步提升动力输出。 带截回转,提高液压系统系统压力,铲刀回转力大大提高,齿圈高频淬火处理,耐磨性和寿命提高,实现带载回转作业。 高效作业:提高了液压泵和液压马达的排量,实现油缸速度提高20%,作业效率行业领先, 对贮力强形进行优化,能够快速高效地翻土和排土。实现最佳的负载分配和回转盘区域内最



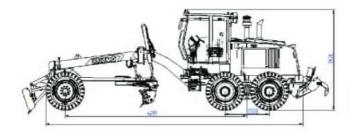


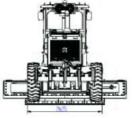
GR2153

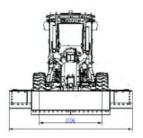
MOTOR GRADER

平地机

Main Dimensions







Main Specifications 主要技术参数

	Item	项目		单位 Unit	GR2153
Basic parameters 基本參数	Engine model	发动机型	号		QSB6.7
	Rated power/speed	额定功率	/转速	kW/rpm	164/2000
	Overall dimension (standard)	整机外型	尺寸(标配)	mm	8970 × 2625 × 3420
	Total weight (standard)	整机重量	(标配)	kg	16500
	Tire specification	轮胎规格			17.5-25
	Ground clearance (front axle)	腐地间隙	(前桥)	mm	430
	Tread	轮距		mm	2156
	Space of front and rear axles	前后桥距		mm	6219
	Space of middle and rear wheels	中后轮距		mm	1538
Performance parameters 性能参数	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	≥85
	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	20
	Transmission pressure	变速箱圧	カ	Mpa	1.3-1.8
Working parameters 工作参数	Maximum steering angle of front wheels	s 前轮最大	转向角		±48
	Maximum inclination angle of front whe	els 前轮最大	倾斜角	0	±17
	Maximum swing angle of front axle	前桥最大	摆动角	9)	±15
	Maximum swing angle of balance box	平衡箱最	大摆动角	8	前15、后15 Front 15, rear 1
	Maximum steering angle of frame	车架最大	(转向角	0	±27
	Minimum turning radius	最小转弯	半径	m	7.3
	Maximum lifting height		最大提升高度	mm	400
	Maximum shoveling depth		最大铲土深度	mm	500
	Blade Maximum lateral inclination angle	ngle	最大侧倾角度	0	90
	Cutting angle	护刀	切削角	0	28-70
	Slewing angle		回转角	0	360
	Length × chord height		长度x弦高	mm	3965×610
Oil filling amount 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		1	110