GR180

MOTOR GRADER
平地机

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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.

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

- Dongfeng Cummins engine, ZF technology transmission, and XCMG special drive axle achieve more reasonable and reliable power matching of drive system.

- Take measures such as vibration elimination, sound absorption and sound insulation to reduce the internal and external noise of the cab.

- The double-circuit hydraulic brake system is applied to realize more reliable and stable braking.

- The steering load-sensing system is applied and the main hydraulic units adopt international products to guarantee the system stability and reliability.

- The XCMG's special enhanced working device is applied.

- The blade body adopts adjustable large slide slot and double slideway mechanism and the blade plates are made of wear-resistant high strength materials.

- The multiple optional parts expand the performance and working scope of machine.

- 东康发动机、ZF 技术变速箱、徐工专用驱动桥使传动系统动力匹配更合理可靠。
- 采取消振、吸声、隔声等措施，降低驾驶室内部和机外辐射噪音。
- 双回路液压制动系统，使制动更加可靠稳定。
- 转向负荷传感系统，主要液压元件采用国际化配套，保证系统的稳定性及可靠性。
- 采用徐工专用加强型工作装置。
- 铲刀体采用可调型大滑槽、双滑轨机构，工作刀片采用高强耐磨材料。
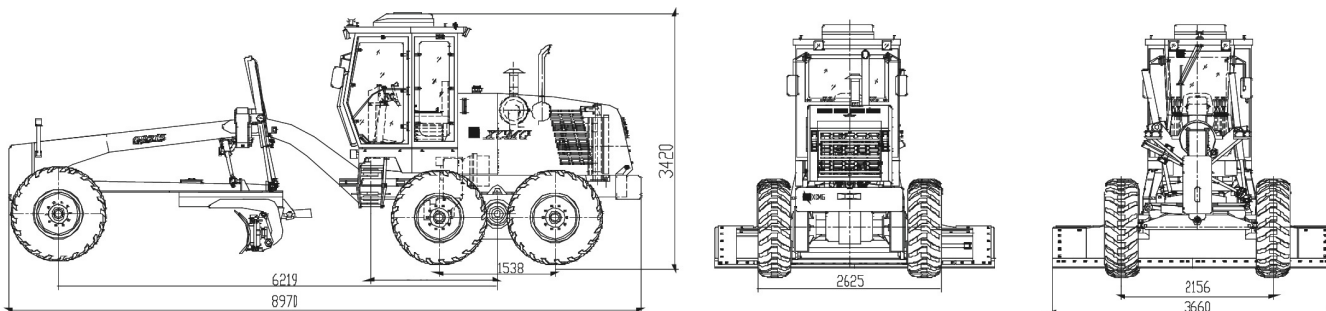- 多种选装件，扩展了机器性能和工作范围。

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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	GR180
Basic parameters 基本参数	Engine model	发动机型号		6CTA8.3-C190-Ⅱ
	Rated power/speed	额定功率/转速	kW/rpm	142/2200
	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	15400
	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
	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	≥79
	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
Working parameters 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
	Blade Maximum lifting height	铲刀 最大提升高度	mm	450
	Maximum shoveling depth	最大铲土深度	mm	500
	Maximum lateral inclination angle	最大侧倾角度	°	90
	Cutting angle	切削角	°	28—70
	Slewing angle	回转角	°	360
	Length × chord height	长度x弦高	mm	3660×610
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	L	110

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XCMG have 12 complete solutions:Crane lifting,Mining Construction,Earth-moving Solutions,Road Machinery,Concrete Equipment,Tunnel and Underground Space Construction,Mobile Elevating Work Platform (MEWP),Piling and Non-excavation Equipment,Transportation Equipment, Environmental Sanitation Equipment,Firefighting,Safety and Emergency Rescue

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40	overseas offices
46	large spare part centers
14	Manufacturing bases and KD Plants
300	More than 300 overseas dealers
2000	More than 2000 service outlets
6000	technical engineers

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