

GR1003



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Motor Grader

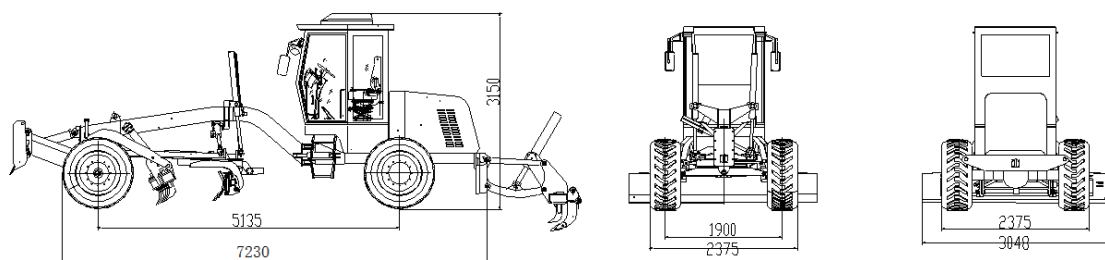
The GR1003 motor grader is mainly used for ground leveling, ditching, slope scraping, bulldozing, scarification, snow removal for large areas such as highway, airports, farmlands etc. It is the necessary construction machinery for urban and rural road construction and water conservancy construction, farmland improvement and so on.

Performance and characteristics

- Efficient operation: 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.
- Safe and reliable: full hydraulic braking system, load sensing steering system, international supporting key components, ensuring safe and reliable system; CAE global optimization of the structural parts, joint special research with universities and research institutes.
- Maneuverability: single oil cylinder large steering angle front axle is XCMG patented technology, combined with articulated frame, small turning radius guarantees the flexible maneuvering.
- Control comfortability: diamond shape cabin with bearing damping at six points, control structure is optimized, reduce the control force and operating stroke, operating force decreases by 30%, the control is more flexible and comfortable, accords with the man-machine engineering control system, the operation environment is more comfortable.

Main Dimensions

Unit: mm



Main specifications

Item	Content		Unit	GR1003
Basic parameters	Engine model		-	WP4.1
	Rated power/speed		-	74kW(2200r/min)
	Overall dimensions (Standard configuration)		mm	7230×2375×3150
	Overall weight (Standard configuration)		kg	7500
	Tire specification		-	16/70-24/13.00-24
	Ground clearance (Front axle)		mm	550
	Wheel tread		mm	1900
	Span between front and rear axles		5135mm	5135
Performance parameters	Forward speed		km/h	5、8、11、17、24、38
	Reverse speed		km/h	5、11、24
	Traction force f=0.75		N	≥39
	Maximum gradeability		%	≥25
	Inflation pressure of tires		kPa	300
	Working system pressure		MPa	16
	Transmission pressure		Mpa	1.3—1.8
Working parameters	Maximum steering angle of front wheels		°	±49
	Maximum inclination angle of front wheels		°	±17
	Maximum swing angle of front axle		°	±15
	Maximum steering angle of frame		°	±27
	Minimum turning radius		m	6
	Blade	Maximum lifting height	mm	310
		Maximum shoveling depth	mm	350
		Maximum lateral inclination angle	°	45
		Cutting angle	°	28—70
		Slewing angle	°	120
		Length× chord height	mm	3048×450
Filling capacity	Coolant		L	50
	Fuel tank		L	260
	Engine		L	18
	Transmission		L	26
	Drive axle		L	28
	Hydraulic oil		L	89

Notes:

Specifications and configurations may vary depending on options and regional regulations. XCMG reserves the right to make changes to specifications without prior notice.

