XCMG

GR1003

GR1003
Motor Grader

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. The machine features compact structure and high reliability, is the indispensable construction machinery for national defense projects, urban and rural roads and other building construction and water conservancy construction, farmland improvement, etc.

徐工道路机械事业部
ROAD MACHINERY BUSINESS UNIT XCMG

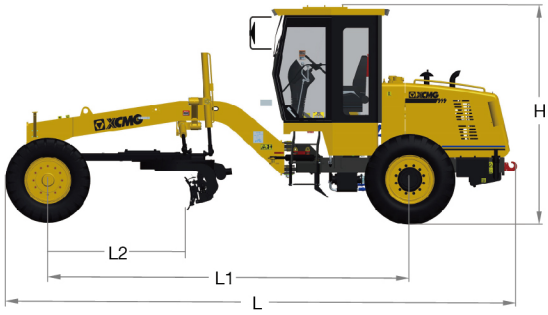
Performance and characteristics

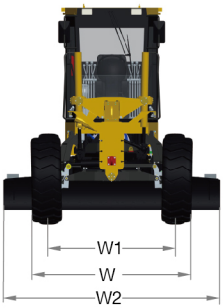
- Powerful and vigorous: Cummins stage III turbocharged engine matched optimum torque converter, reducing the start time, maximizing torque output at low speed.
- High efficiency: optimized blade shape for fast and efficient work, optimal load distribution minimizes material accumulation within the rotary disc.
- Safety and reliability: CAE optimized structural parts, reliable and durable; patented slewing bearing drive axle for long lifetime and higher reliability. ROPS&FOPS cabin provides high safety.
- Maneuverability: XCMG patented single oil cylinder large steering angle front axle, combined with articulated frame, achieving a small turning radius.
- Control comfort: diamond shape six-point support cabin reduces both vibration and noise, shortened operating stroke and 30% less operating force for comfortable control and productive operation.
- Maintenance accessibility: large opening engine hood for easy access to service parts.

Main dimensions

Unit: mm

Model	L	L1	L2	H	W	W1	W2
GR1003	7230	5135	1960	3150	2375	1900	3048





Main specifications

Item	Content		Unit	GR1003
Basic parameter	Engine model			QSB3.9
	Rated power/speed		kW/rpm	81/2200
	Machine dimension(standard)		mm	7230×2375×3150
	Machine weight(standard)		kg	7500
	Tire specification			16/70-24/13.00-24
	Wheel track		mm	1900
	Axle distance between front and rear		mm	5135
	Minimum ground clearance, front axle		mm	550
Performance parameters	Drive speed, forward		km/h	5/8/11/17/24/38
	Drive speed, reverse		km/h	5/11/24
	Traction force f=0.75		N	≥39
	Maximum gradeability		%	≥25
	Tire inflation pressure		kPa	300
	Work system pressure		MPa	16
	Transmission box pressure		Mpa	1.4—1.8
Working parameters	Maximum steering angle, front wheel		°	±49
	Allowable tilt angle, front wheel		°	±17
	Maximum oscillation, front axle		°	±15
	Maximum oscillation, balance box		°	±16
	Maximum steering angle, frame		°	±27
	Minimum turning radius		m	6
	Blade	Maximum lift above ground	mm	310
		Maximum cutting depth	mm	350
		Maximum tilt angle	°	45
		Cutting angle	°	28—70
		Swivel angle	°	120
		Length × Height	mm	3048×450
Capacities	Coolant		L	50
	Fuel tank		L	260
	Engine		L	18
	Transmission box		L	26
	Balance box		L	28
	Drive axle		L	89
	Hydraulic oil		L	50