GR1003 Motor Grader

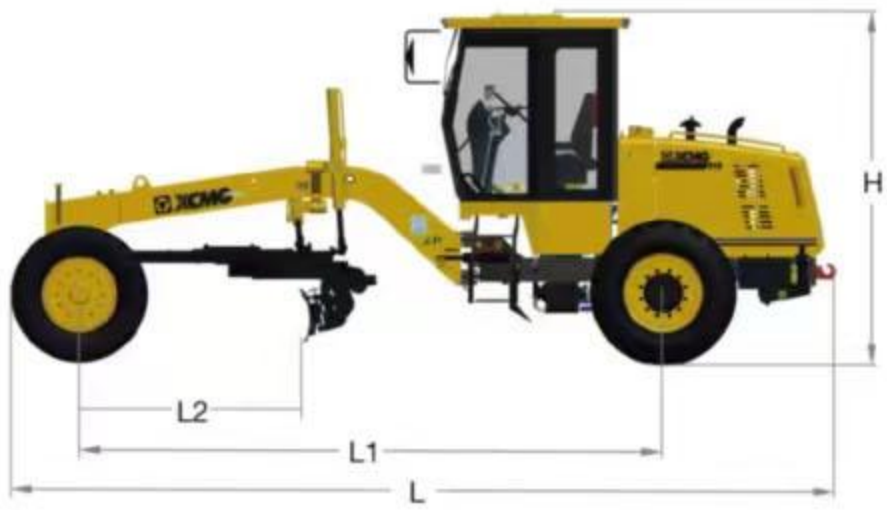
Performance and characteristics

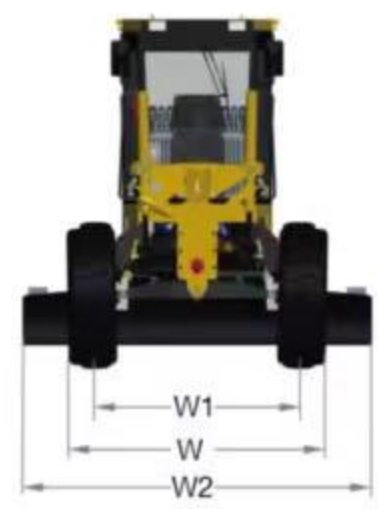
- Powerful and vigorous: Cummins stage III turbocharged engine matched optimum torque converter, reducing the start time, maximizing torque output at low speed.
- High efficiency: optimized blade shape for fast and efficient work, optimal load distribution minimizes material accumulation within the rotary 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