

GR180



GR180

Motor Grader

GR180 motor grader is mainly used for ground leveling, ditching, slope scraping, bulldozing, scarification, snow removal for large areas such as highway, airports, farmlands etc., also can be used in heavy duty and mining areas. 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.

Performance and characteristics

- Powerful and vigorous: Cummins stage II turbocharged engine matched optimum torque converter, reducing the start time, maximizing torque output at low speed.
- Swivel under load: improved pressure of hydraulic system, improved swivel force of the blade, high frequency quenching treatment of gear rings, enhancing the wear resistance and life span of the blade.
- 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

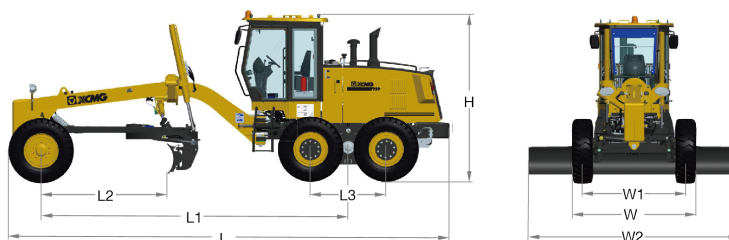
durable; patented slewing bearing drive axle for long lifetime and higher reliability. Overload protection worm gear box, slewing bearing device, for more application range; front axle casting joint has a longer lifetime.

- 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.

Main dimensions

Unit: mm

Model	L	L1	L2	L3	H	W	W1	W2
GR180	8900	6219	2594	1538	3420	2625	2156	3660



Main specifications

Item	Content		Unit	GR180	
Basic parameter	Engine model			6CTA8.3-C190-II	
	Rated power/speed		kW/rpm	142/2200	
	Machine dimension(standard)		mm	8900×2625×3420	
	Machine weight(standard)		kg	15400	
	Tire specification			17.5--25	
	Wheel track		mm	2156	
	Axle distance between front and rear		mm	6219	
	Minimum ground clearance		mm	430	
	Wheel base between middle and rear		mm	1538	
Performance parameters	Drive speed, forward		km/h	5/8/11/19/23/38	
	Drive speed, reverse		km/h	5/11/23	
	Traction force f=0.75		kN	≥79	
	Maximum gradeability		%	≥25	
	Tire inflation pressure		kPa	260	
	Work system pressure		MPa	16	
	Transmission box pressure		Mpa	1.3-1.8	
Working parameters	Maximum steering angle, front wheel		°	±50	
	Allowable tilt angle, front wheel		°	±17	
	Maximum oscillation, front axle		°	±15	
	Maximum oscillation, balance box		°	±15	
	Maximum steering angle, frame		°	±27	
	Minimum turning radius		m	7.3	
	Blade	Maximum lift above ground		mm	450
		Maximum cutting depth		mm	500
		Maximum tilt angle		°	90
		Cutting angle		°	28—70
Swivel angle		°	360		
Length × Height		mm	3660×610		
Capacities	Coolant		L	50	
	Fuel tank		L	280	
	Engine		L	24	
	Transmission box		L	38	
	Balance box		L	46	
	Drive axle		L	28	
	Hydraulic oil		L	110	

Notes:

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

