XCMG

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XCMG For Your Success

Motor	Cummins 6BT5.9-C180
Potencia (HP)	170
Peso Total (kg)	15000

MOTONIVELADORAS

GR165

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GR Series Motor Grader

GR100\GR135\GR165\GR180\GR200
GR215\GR230\GR260\GR300
GR215A\GH215

XCMG GR Series Motor Grader is widely used in large area terrain levelling, trenching, buldozing, soil loosening and snow removal operations for roads, airports and farmlands. In addition, the machines have also been used in national defense, mining, urban and rural development, water conservation and farmland projects.

Main Technical Parameters

Model		GR100	GR135	GR165	GR180	GR200	GR215	GR230	Unit
Engine	Manufacture	Dongfeng Cummins	Dongfeng Cummins	Dongfeng Cummins / Shanghai Diesel Engine	Dongfeng Cummins / Shanghai Diesel Engine	Shanghai Diesel Engine	Imported Cummins / Dongfeng Cummins	Dongfeng Cummins	
	Engine model	4BTA3.9	6BT5.9	6BTA5.9/SC8D170G2B1	CTAA8.3/SC8D190G2B1	SC8D200G2B1	CTAA8.3/6CTA8.3	6CTA8.3–C230– Ⅱ	
	Rated power/rotated speed	74/2200	97/2200	125/2200	138/2200 140/2300	147/2300	153/2200 160/2200	172/2200	kw/rpm
Performance parameters	Forward speed	5,8,11,17,24,38	5,8,13,20,30,42	5,8,11,19,23,38	5,8,11,19,23,38	5,8,11,19,23,38	5,8,11,19,23,38	5,8,11,19,23,38	km/h
	Rearward speed	5,11,24	5,13,30	5,11,23	5,11,23	5,11,23	5,11,23	5,11,23	km/h
	Tractive force (f=0.8)	41.6	61.3	82	84	87	90	90	kN
	Max.gradeability	30	30	30	30	30	30	30	%
	Min.turning radius	5.9	6.6	7.3	7.3	7.3	7.3	7.3	m
Operating parameters	Max. Lifting height	300	410	450	450	450	450	450	mm
	Max. shoveling depth	350	515	500	500	500	500	500	mm
	Max. side–tipping angle	45	90	90	90	90	90	90	°
Blade	Cutting angle	28~70	54~90	28~70	28~70	28~70	28~70	28~70	°
	Slewing angle	120	360	360	360	360	360	360	°
	Length x chord height	3048x450	3660 × 610	3660 × 610/3965 × 610	3660 × 610/3965 × 610	4270x610	3965 × 610/4270 × 610	4270x610	mm
Overall dimensions (LxWxH)		6880x2375x3150	8015x2380x3050	8900x2625x3470	8900x2625x3470	8932x2625x3470	8970x2625x3470	8970x2625x3470	mm
Operating Weight (Standard)		7000	11200	15000	15400	16000	16500	16500	kg

Model		GR260	GR300	GR215A	GR180R	GR215H	GR215LII	GH215	Unit
Engine	Manufacture	Dongfeng Cummins	Imported Cummins	Imported Cummins / Dongfeng Cummins	Imported Cummins	Dongfeng Cummins	Dongfeng Cummins	Imported Cummins / Dongfeng Cummins	
	Engine model	6CTA8.3–C260– Ⅱ	QSL9	QSB6.7/6CTA8.3–C215– Ⅱ	QSB6.7	6CTA8.3–C215– Ⅱ	6CTA8.3–C215– Ⅱ	QSB6.7/6CTA8.3– Ⅱ	
	Rated power/rotated speed	194/2200	224/2100	164/2200 160/2200	142/2050	160/2200	160/2200	164/2200 160/2200	kw/rpm
Performance parameters	Forward speed	5,8,11,19,23,38	5,8,11,19,23,40	5,8,13,19,23,38	3,8,6.6,8.7,15,19,32	5,8,11,19,23,38	5,8,11,19,23,38	5,8,11,16,26,38	km/h
	Rearward speed	5,11,23	5,11,23	5,11,23	3,8,8.7,19	5,11,23	5,11,23	5,8,11,16,26,38	km/h
	Tractive force (f=0.8)	132	143	115.3	80	90	90	98	kN
	Max.gradeability	36	36	36	30	30	30	30	%
	Min.turning radius	8.3	8.3	7.3	7.3	7.3	7.3	7.3	m
Operating parameters	Max. Lifting height	450	450	450	460	450	450	450	mm
	Max. shoveling depth	500	500	500	500	500	500	500	mm
	Max. side–tipping angle	90	90	90	90	90	90	90	°
Blade	Cutting angle	28~70	28~70	28~70	28~70	28~70	28~70	28~70	°
	Slewing angle	360	360	360	360	360	360	360	°
	Length x chord height	4572x787	4877x787	4270x610	3660 × 610	4270x610	4270x610	4270x610	mm
Overall dimensions (LxWxH)		10280x3100x3550	10500x3100x3550	9180x2625x3470	8900x2625x3470	8970x2625x3300	8970x2625x3300	9105x2625x3470	mm
Operating Weight (Standard)		24000	26000	16100	14500	16500	16500	16500	kg

Two blade length options are available for users to choose from.

D series motor grader

GR165

Introduction:

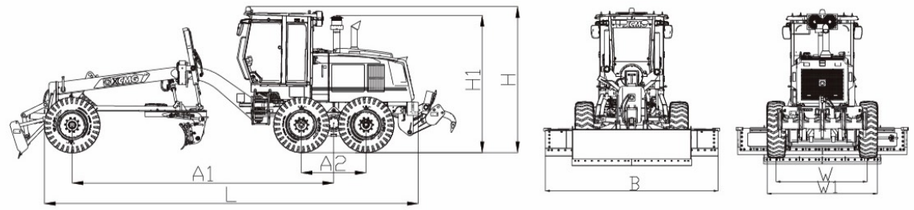
The grader is mainly used for large ground surface leveling, ditching, slope scraping, bulldozing, scarifying, snow removing and other work in highway, airport and farmland. The grader is necessary engineering machinery for national defense construction, mine construction, urban and rural road construction, water conservancy construction and farmland improvement, etc.

Standard Details:

- ☑ Adjustable console
- ☑ LED work lights
- ☑ Suspension safety belts seat
- ☑ Electric horn
- ☑ Reversing alarm
- ☑ Combination instrument
- ☑ Rotating alarm light
- ☑ Slewing bearing
- ☑ Overload protection worm gear case

Option Details:

- ☐ Front bulldozer
- ☐ Back ridger
- ☐ Hydraulic pull pin
- ☐ Fender
- ☐ ROPS&FOPS cab
- ☐ Automatic leveling system



Dimensions in mm:

	A1	A2	B	H	H1	L	W	W1
GR165	6219	1538	3660	3420	3160	8900	2156	2625

Technical Data:

			GR165
Basic parameters			
Engine model			6BT5.9-C180-Ⅱ
Rated power/Rotation rate		r/min	132(2200)
Complete machine appearance dimensions (standard)		mm	8900×2625×3420
Complete machine weight (standard)		kg	15000
Tire specifications			17.5-25RP12
Ground clearance (front axle)		mm	430
Wheelbase		mm	2156
Front and behind bridge distance		mm	6219
Middle and behind wheelbase		mm	1538
Performance parameters			
Forward speed		km/h	5、8、11、19、23、38
Backward speed		km/h	5、11、23
Traction		kN	≥77
Maximum climbing capacity		%	≥25
Tire inflation pressure		kPa	260
Operating system pressure		MPa	18
Transmission pressure		MPa	1.3-1.8
Operating parameters			
The maximum steering angle of the front wheel		°	±49
The maximum tilt angle of the front wheel		°	±17
The maximum swing angle of front axle		°	±15
The maximum swing angle of the balance box		°	Front 15 °, rear 15 °
The maximum steering angle of the frame		°	±27
Minimum turning radius		m	7.3
Scraper knife	Maximum lifting height	mm	450
	Maximum shovel depth	mm	500
	Maximum lean angle	°	90
	Cutting angle	°	28～70
	Rotating angle	°	360
	Length x chord height	mm	3660×610
Oil filling			
Coolant		L	50
Fuel tank		L	280
Engine		L	24
Transmission		L	38
Balance box		L	46
Drive axle		L	28
Hydraulic oil		L	110

Roadbed leveling

Key Parts

Power Configuration

Shanghai Diesel Engine SC8DG2B1, Dongfeng Cummins and imported Cummins engines are available to provide powerful operation and large power reserve coefficient. The engines ensure normal operation and that the emission level adhere to the standards of different markets.

- Shanghai diesel engine SC8DG2B1
- Dongfeng Cummins
- Imported Cummins

Drive System

- Hydraulic power-mechanical transmission.
- Hydraulic - mechanical transmission.
- Hydraulic - hydraulic power-mechanical transmission.
- Gearbox-fixed shaft engaged electrohydraulic gearbox is used to ensure convenient operation and stable transmission.
- Hangzhou Gear, Liuzhou ZF, DANA and importer ZF gearboxes are used.

Gearbox

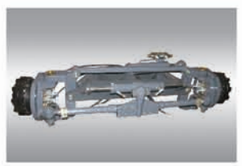
Gearbox with electrohydraulic control that offers six forward gears and three reverse gears.

Hydraulic System

Imported parts are used for key components.
Hydraulic parts from international manufacturers, such as US' EAT.N, Husco and Mico, and Italy's Hydrocontrol, are used to ensure stability and reliability.

Shovel Blade

Shovel blade movement is controlled by an adjustable, multidimensional twin lever system. The blade is made of high strength and wear resistant material that provides great service life extension. The shovel angle is controlled by a cylinder that offers good balance. The shovelling angle can be adjusted according to the material type.



Steering System

A hydraulic steering system with load sensors, good control and energy-saving features is used together with a hinged frame to provide flexible steering of the vehicle.

Operational Component

The rails are coated with wear-resistant materials to ensure flexible blade rotation, high precision and low maintenance cost.

GR100/GR135

Small Motor Grader

It is mainly used for leveling, ditching, slope scarping, dozing, soil loosening, and snow removal for roads etc. Large-area site, and is a machinery required for urban and rural roads, water conservancy construction, and farmland improvement.

Performance Features

- The machine used a Dongfeng Cummins engine, which is highly reliable, has low fuel economy, as well as low noise and emission level. With the hinged frame design, the front wheels can turn easily and freely, ensuring a small turning radius. Gear change is controlled by an electrohydraulic system that provides six forward gears and three reverse gears.
- Hydraulic parts from international manufacturers are used to ensure good operational reliability.
- Shovel blade movement is controlled hydraulically.
- The reverse axle features a three-section drive design with a self-locking mechanism.
- The adjustable control panel, driver seat and control levers are arranged ergonomically to facilitate easy control and improve overall operational comfort.
- The spacious and elegantly designed cab provides good field of vision and quality sealing.

GR165/GR180/GR200
GR215/GR230 Common Motor Grader

Widely used for large area terrain levelling, trench digging, bulldozing, soil loosening and snow removal operations on roads and at airports.
In addition, the machine can also been used in national defense, mining, urban and rural development, water conservation and farmland projects.

Performance Features

- New structural design.
- The hinged frame design ensures flexible and easy turning of the front wheels with a small turning radius.
- Gear change is controlled by an electrohydraulic system that provides six forward gears and three reverse gears.
- Hydraulic parts from international manufacturers are used to ensure good operational reliability.
- Shovel blade movement is controlled hydraulically.
- The reverse axle features a three-section drive design with a self-locking mechanism.
- The adjustable control panel, driver seat and control levers are arranged ergonomically to facilitate easy control and improve overall operational comfort.
- The spacious and elegantly designed cab provides good field of vision and quality sealing.
- Optional tools include front bulldozing plate, rear soil loosening blade, front soil loosening blade and automatic levelling device.

GR215A
All Wheel Drive Motor Grader

Widely used for large area terrain levelling, trench digging, bulldozing, soil loosening and snow removal operations on roads and at airports. The vehicle can facilitate six-wheel, four-wheel and two-wheel drive. Power can be improved by 30% using a six-wheel drive compared to the four-wheel drive, making it suitable for operation in muddy and snow conditions. Using the two-wheel drive (front wheels), fine levelling operations can be performed.

Performance Features

- The machine used a Dongfeng Cummins engine, which is highly reliable, has low fuel economy, as well as low noise and emission level.
- Gear change is controlled by a ZF electrohydraulic gearbox system that ensure flexible and easy operation.
- The rear axle has a three-section drive design with automatic No-Spin anti-slipping mechanism to provide stable and reliable transmission
- The front wheels' auxiliary hydraulic drive system can be interlocked with the gear of the back wheels to archive six-wheel, four-wheel and two-wheel drive.
- Double hydraulic circuit braking system is used to provide safety and reliability.
- The ROPS cab, with its automatic ventilation and spacious and luxurious design, provides good field of vision and sealing.
- Optional tools include front bulldozing plate, rear soil loosening blade, front soil loosening blade and automatic levelling device.

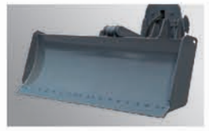
GR135C/GR165C/GR180C
GR215C/GR215AVI CE Series Motor Grader

Widely used for large area terrain levelling, trench digging, bulldozing, soil loosening and snow removal operations on roads and at airports. Hydraulic transmission is used for driving, tool operation, steering and braking. Operators can switch between manual and automatic gear and tool operation based on the different work conditions.

Performance Features

- An imported Cummins electronic diesel injection engine (Tier 3), featuring low noise and emission, is used.
- The electrohydraulic gearbox with ergonomically arrange lever and buttons provides flexible and easy operation.
- The rear axle has a three-section drive design with automatic No-Spin anti-slipping mechanism to provide stable and reliable transmission
- Ordinary and ROPS & FOPS cab options to choose from, both featuring window cleaning and defrosting devices. In addition, an air-conditioning unit is installed to ensure ventilation.
- The double hydraulic circuit braking system provides good braking under any conditions.
- The blade has a protection function that help absorb impact.
- The steering system, featuring a full hydraulic load sensing system, hinged frame design and large steering angle, ensures flexible operations.
- The machine is CE certified and can fulfil the EU environmental protection requirements.

Key Parts



Front dozer
The blade installed in front is used for shovelling operations at narrow spaces that cannot accommodate the shovel blade and ground levelling operations. The floating mechanism allows the blade to stay on top of road surface and is good for different terrain conditions, as well as snow removal.

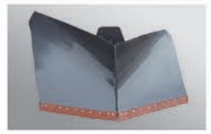
Rear ripper
Multi-toothed mechanism installed at the back that is used to excavate terrain that is too hard for the blade to handle and loosen compact soil formation for further work.

Slewing ring
The machine uses a ball-bearing rotary mechanism and frictionless worm gearbox to ensure reliable operation and good service life.

Overloaded protective worm gear case
The safe unloading device and intermediate output axle offer dual support for the machine. During normal operation, the worm gear and intermediate output axle will be rigidly connected, generating effective torque that is transferred to the axle for great operational performance. There is a slipping mechanism during overloading that offers protection to the system.

Automatic leveling device
The device ensures automatic levelling with high precision, saving materials and reducing the amount of manual operation to improve efficiency.

Front ridger
A soil loosening mechanism installed at the front of the machine with adjustable digging depth. It can be used on hard ground in preparation of levelling operations.



Snow remover
This device is mounted at the front of a grader, which is mainly used for removal of floating snow on road, and has a floating function, with “V” shaped design applied for left and right swing plates, to ensure good snow removal.

Hydraulic pull-pin
Ensures that the tools stay at the same position at different conditions. The electrohydraulic system facilitates pull pin operation, effectively eliminating manual intervention and making operations easy to control.

Air conditioning
The air-conditioning unit drastically enhances the interior environment and provides great comfort for the operator.

ZF Box
The ZF Box, jointly developed byChina and Germany, offers steady performance, high reliability and can operate in challenging conditions.

Application Case-Studies

Shandong interprovincial highway construction plans


Grader used by Sudan Peace keeping troops


Construction of Dashan Highway

Erdos open pit construction plans


Inner Mongolia Open Mine Construction Plans

Construction in Dezhou City, Shandong

Application Case-Studies

Inner Mongolia Open Mine Construction Plans


Site Leveling at Qingdao


Snow Removal in Harbin


Huai'an Economic Development Zone Construction


Wenchuan disaster relief

Las Vegas Show