



GR135(CE)

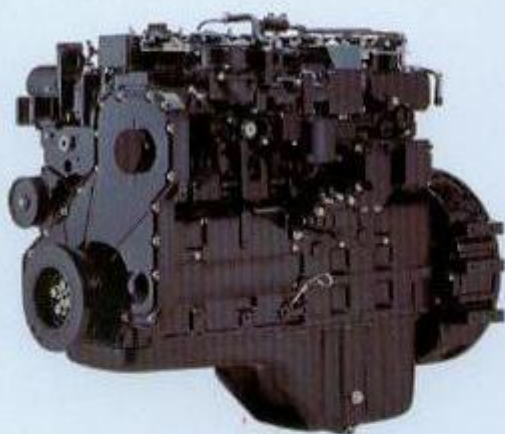
MOTOR GRADER



This type of motor grader is mainly used for ground leveling, trenching, cutting surface, dozing, soil loosening, and snow plowing.

It is necessary and mandatory for construction of national defence projects, mining fields, roads building and water facilities projects.

MOTOR GRADER GR135 (CE)



ENGINE

Cummins model QSB4.5 that meets the requirement of TierIII, electronic injection, turbocharged and air-to-air after cooled. The four-stroke-cycle is designed for long, effective power strokes, and more efficient fuel combustion. The high-torque engine provides excellent fuel economy and durability. Adding pushing power heightens operating efficiency. Lower exhaust displacement, electric starting and stopping, have excellent performance and reliability.



TRANSMISSION

Hangzhou-reversing transmission YD13 which adopts ZF 6WG180 technology provides six forward and three reverse speeds. Hydraulic-electricity shift makes operation easy. Adopt with auto-lock/unlock NO-SPIN anti-slide differential, heavy-duty balance box, heavy-duty roller chain transmission, all of low-noise, rusty-proof, corrosion-prevention, anti-chock and being tilting, so that it is nice looking and easy maintenance and repair for the engine.



ROPS & FOPS CAB / HOOD & BUMPER

Be designed diamond-shape front-tilting cab, with wide-field vision, good sealing, low noise, adjustable ABS operation panel, adjustable seat, Curtis (of USA) or VDO (of Germany) instrument panel, radio, Cooling and heating air conditioner, ashtray and cup-set, etc. The cab is designed to be nice looking and very comfortable. Engine hood and rear bumper of the grader made of steel plates which are designed to be nicely looking and can be painted well and everlastingly.



AXLE

MERITOR axle is introduced from well-known technology of MERITOR in U.S.A. Large, heavy-duty axles protect internal components in the harsh environment and offer excellent serviceability and maintenance.



BLADE

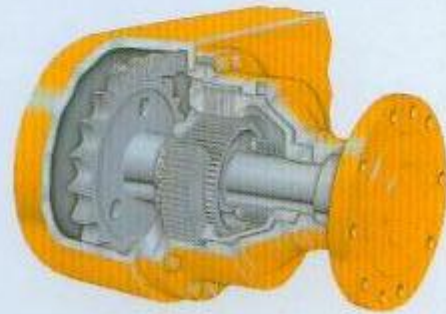
Adopt the unique XCMG's blade mechanism. The blade is made of very hard material, and it is controlled by two cylinders for changing angle, so with perfect evenness and balance. And cutting-in angle can be easily controlled according to different soil conditions. The blade can be used upside down when it's worn for some period of operation.

OPERATION SYSTEM

Having forward/backward adjustable operation panel, with Hydro Control multi-way valve, electrically-controlled Hangzhou gearbox, it is quite easy to make any operation.

STEERING SYSTEM

Adopt sensor with load. The superior energy-saving fully hydraulic steering system makes it possible, with the articulated frame, to achieve easy and flexible steering.



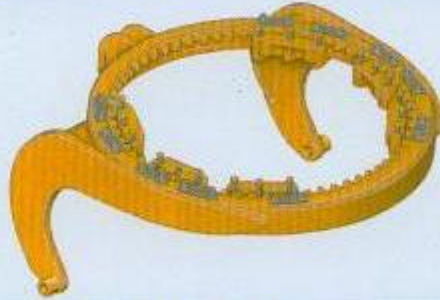
BRAKE SYSTEM

The traveling brake system adopts the hydraulic components from the Westen countries. The hydraulic hub-type applies its performance on four middle & rear wheels. The parking brake system is of hub-type hand brake, which ensures the safty during traveling by appling its function on the output shaft of gearbox. Double circuit hydraulic brake system is adopted currently to increase the security of the machine.



FULL 90° BANK CUTTING

The hydraulically actuated blade can be positioned on either side up to a full 90°. All desired bank cutting angles of the blade can be controlled from the operator's compartment, for quicker, effort-minimizing operation and increased productivity.



CIRCLE

Be fitted with hard material lining, which ensures easy and flexible move of the blade, and high-accuracy flatness and low-cost maintenance as well.



AUTOMATIC LEVELING UNIT

Automatic leveling unit: It is optional to select TRIMBLE leveling unit or Aoxin leveling system . It is recommended: ultrasonic leveling unit can be selected as optional when building the express-highway and laser leveling unit as the option in large agricultural area. The adoption of Automatic leveling system can greatly reduce operator's working fatigue and promote highly the operating efficiency. The mounting of leveling unit is shown above.

OPTIONAL SYSTEM AND EQUIPMENT

1. Cummins engine (Dongfeng) 6BT-5.9
2. Trimble or Aoxin automatic leveling system as described above
3. Front dozer blade with floating mechanism (can be used to work on uneven surface such as snow cleaning, etc.)
4. Rear ripper
5. Scarifier (for additional loose of the earth like farming fields)
6. Tubeless tire
7. Worm gear protection unit.

CHASSIS

Being welded structure, just like a box, it is strong enough to ensure no deformation.



FRONT DOZER BLADE

The front blade gives operator an additional tool for grading in hard to reach areas, such as corners or against walls with wheel lean.



REAR RIPPER

The ripper gives the operator the ability to rip or loosen hardened surfaces with its steel teeth.

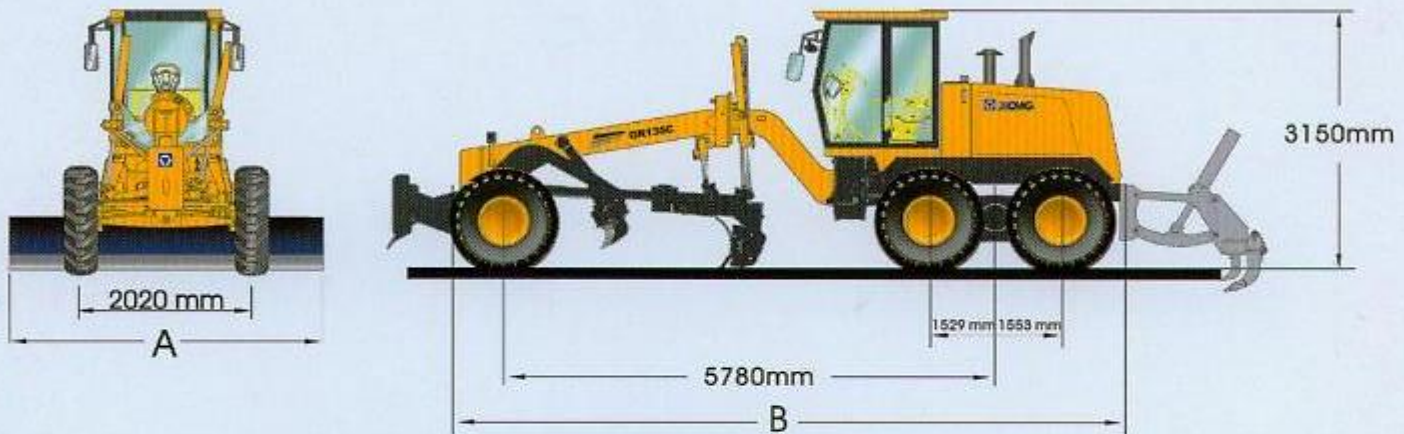


SCARIFIER

A center-mounted scarifier is also available.



■ DIMENSIONS



	GR135 (C€)
A	3710mm
B	8115mm

■ STANDARD EQUIPMENT MAIN SPECIFICATIONS

	GR135 (C€)
Engine	CUNMMINS QSB4.5-110
Rated Power/rev	110KW/2200rpm
Complete machine size (standard match)	8115×2380×3150mm
Complete machine weight (standard match)	11000kg
Rear axle weight	7810kg
Clearance to floor (front axle)	515mm
Wheel distance	2020mm
Distance between front axle and rear axle	5780mm
Distance between middle and rear axles	1529-1553mm
Max.steering angle of front axle	±49°
Max.inclined angle of front axle	±17°
Max.swing angle of front axle	±15°
Max.swing angle of balance box	±16°
Max.steering angle of frame	±27°
Min.turning radius	6.6m
Max.tractive force	61.3kN
Max.climb capability	20°
Blade	
Max.hoisting height	410mm
Max.cutting depth	535mm
Max. incline angle	90°
Cutting angle	54°-90°
Turning angle	360°
Length x height	3710x610mm
Full drive system	×

■ OPTIONAL SYSTEM AND EQUIPMENT PARAMETERS

1.Front dozer blade	
Dozing width	2340mm
Dozing depth	130mm
2.Rear Ripper(two row of shanks)	
No.of shanks	5
Max.digging depth	430mm
Max.lift above ground	510mm
Max.digging width	2300mm
No.of shanks	9
Max.digging depth	250mm
Max.lift above ground	700mm
Max.digging width	2300mm
3.Scarifier	
No.of teeth	11
Scarifier depth	280mm
Digging width	1325mm

GR135 (CE)	
ENGINE	
Model	CUMMINS QSB4.5
Type	Turbocharged diesel, 4 cylinders, 4-stroke, direct-injection, water cooled
Rated power/Rated speed	110kW / 2200rpm
Bore × stroke	114 × 135mm/4.5" × 5.3"
Displacement	4.5L
Compression ratio	18:1
Batteries	2 × 12V/135A · h
Starter	24V 4.5kW
Alternator	28V 50A
TRANSMISSION	
Make and model	YD13
Type	Power-shift(electric hydraulic)countershaft design with six forward and three reverse speeds
Control	Single lever control
Forward speeds km/h	5 8 13 20 30 42
Reverse speeds km/h(MPH)	5 13 30
	1.6Mpa-1.8Mpa
AXLE	
Model	XPRC1134H031
Driving system	Four-wheel driving
Rear axle oscillation	Center oscillation
Carrier assembly-Reduction ratio	4.625
Wheel end reduction assembly-Reduction ratio	17.458
BRAKE	
Type	Dry multi disc brakes
Braking system	Full hydraulic type brake on four wheel, hydraulic hub brake
Operation	Shoe brake
Driving brake-system pressure	10Mpa
Emergent and stopping system pressure	16Mpa
Parking brake	Electric control, inner-expanding shoe brake, hydraulic cylinder, brake pump and spring energy reserve applied via a switch on the control stand panel.
TYRES	
Type	Tube
Specification	13.00-24TG Rp12
Specifications for working hydraulic system	
Working pump	Gear pump
Max. flow rate	2 × 36L/min
Max. Working pressure	18Mpa
Control	Manually operation
Double-acting hydraulic cylinders	Bore × stroke
Blade lift	80mm × 1150mm
Blade oscillation	80mm × 550mm
Blade drawer	80mm × 1400mm
Specifications for steering hydraulic system	
Type	Articulation, fully hydraulic power steering with load-sensing system
Steering pump	Gear pump
Max. flow rate	18 × 2.2L/min
Max. Working pressure	16Mpa
Cylinder	
Bore × stroke	70mm × 350mm
Max. steering angle (front wheel)	± 49°
Max. steering angle (vehicle frame)	± 27°
Service refill capacities	
Fuel tank	280L
Engine oil	24L
Cooling system	50L
Gearbox	26L
Total capacity of Balance box	46L
Driving axle	28L
Hydraulic oil	96L
Turbo box	2.5L

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Please contact with our district agent:

Materials and specifications are subject to change without notice.