

Safe and Comfortable

- ◆ The electric control dual-handle operation, manual/automatic integrated gear shifting, cruise control system and fingertip button switch significantly reduce the operator's workload.
- ◆ The ROPS&FOPS hexahedral pressurized cab, with an interior noise level as low as 73 dB. The pressurization system keeps dust out, providing operators with a quiet and comfortable working environment.
- ◆ The high-power heating and cooling air conditioning system, combined with a three-dimensional all-round air duct, ensures a comfortable temperature for the human body in both summer and winter.
- ◆ The operator in-place monitoring system and hydraulic locking function can avoid misoperation and ensure the safety of operators and surrounding personnel.
- ◆ The emergency steering and brake system with accumulator provides power for steering and parking in case of emergency.

Intelligent D&M

- ◆ SANY special controller + HD touch screen shows vehicle operating parameters in a centralized manner, monitors the machine's status in real time, provides timely fault alerts, and automatically reminds users of maintenance information, reducing downtime for repairs.
- ◆ The intelligent fan system can automatically clean the accumulated dust on the radiator to ensure the cooling performance of the machine.
- ◆ The centralized oil discharge and pressure measurement facilitate maintenance.
- ◆ The optional centralized lubrication system saves time on routine maintenance.



C10 Series



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Warm reminder:
As the technology is constantly updated, technical parameters and configurations are subject to change without prior notice.
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SANY®

SPECIFICATION



Motor Grader STG335C-10 Euro III

QUALITY CHANGES THE WORLD

www.sanyglobal.com

Product Highlights

Reliable and Durable

- ◆ The structural parts are designed with reinforced construction based on extreme working conditions, manufactured using lean principles at the lighthouse factory, ensuring a long service life.
- ◆ The heavy-duty drive rear axle for mining applications features a double-row reinforced slewing bearing and a gear-driven tandem drive case, ensuring reliability and durability.
- ◆ The fully-enclosed rolling disc implement adapts to sand and gravel, ensuring high reliability.
- ◆ The overload protection circle drive and blade buffer accumulator can effectively reduce the damage of impact load to the machine.
- ◆ The blades are made using welded wear-resistant alloy technology, resulting in a service life improvement of over 50%.

Energy-efficient

- ◆ The optimized weight and load distribution of the machine provide greater traction force.
- ◆ The unique mechanical-hydraulic compound drive technology improves the operating efficiency by 10% and reduces fuel consumption by 15%.
- ◆ The high-displacement, high-pressure load-sensing hydraulic system distributes flow on demand, enabling synchronized compound movements of multiple cylinders.

- ◆ The optimized blade curvature and throat clearance maximize the cutting capacity of the blade and material fluidity, reduce the load of the blade, making the operation easier.
- ◆ The automatic transmission shifting, one-click cutting of blade, automatic centering of articulated joint and other functions save time and improve efficiency.

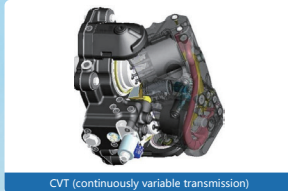


STG335C-10

Motor Grader
C10 Series

Strong and Efficient Powertrain System

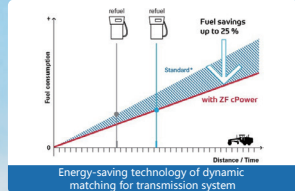
- ◆ The low-speed and high-torque engine provides sufficient power for heavy-duty operation.
- ◆ The CVT reasonably distributes mechanical and hydrostatic transmission power, achieving a balance of torque and efficiency, so as to meet the operation requirements of both light and heavy loads under different working conditions.
- ◆ The heavy-duty drive rear axle for mining applications features a gear-driven tandem drive case, ensuring high transmission accuracy and efficiency, as well as a long service life.
- ◆ The dynamic matching of the engine and transmission achieves a balance between performance and economy, resulting in a 15% reduction in fuel consumption compared to traditional hydraulic transmission.



CVT (continuously variable transmission)



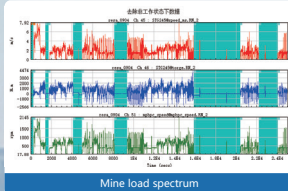
Heavy-duty drive rear axle



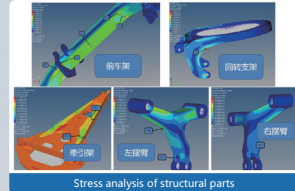
Energy-saving technology of dynamic matching for transmission system

Heavy-duty Design Structural Parts for Mining

- ◆ Based on the mine load spectrum, structural parts such as frame, implement and front axle are reinforced to ensure sufficient safety margins.
- ◆ The cab and fuel tank pass the bench vibration test under extreme conditions to ensure that the welds do not crack.



Mine load spectrum



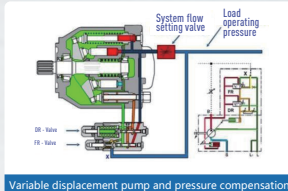
Stress analysis of structural parts



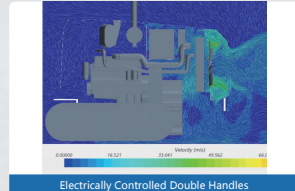
Bench vibration test

Load-sensing Hydraulic System

- ◆ The load-sensing hydraulic system distributes the flow on demand to realize the synchronous operation of multiple cylinders.
- ◆ The intelligent temperature-controlled cooling system automatically adjusts the fan speed based on engine coolant temperature, intercooler temperature, and transmission oil temperature, achieving energy savings and noise reduction.



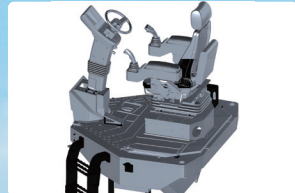
Variable displacement pump and pressure compensation



Electrically Controlled Double Handles

Smart Control System

- ◆ The action of the implement is controlled by two electric control handles, making operation simple and labor-saving.
- ◆ The automatic transmission shifting and load adaptive function ensure that the machine always operates in its "optimal working condition."
- ◆ The function of operator in-place monitoring and handle locking prevents safety accidents caused by accidental operation.
- ◆ The 7-inch touch screen displays various operating parameters in a centralized manner, provides real-time monitoring of the machine's status, features fault self-diagnosis, and automatically reminds users of maintenance information.

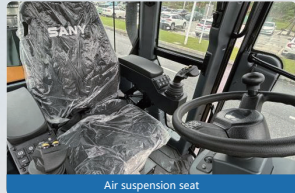


Quiet and Comfortable Driving

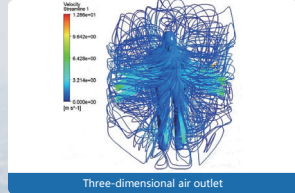
- ◆ The hexahedral cab, with an interior noise level as low as 73 dB, providing a quiet operating environment and better working vision for the operator.
- ◆ The cab pressurization system minimizes dust ingress, improving the working environment for the operator.
- ◆ The air suspension seat is equipped with adjustable seat softness and hardness, multi-level backrest, and lumbar support features, alleviating fatigue caused by long-time driving.
- ◆ The high-power heating and cooling air conditioning system features a three-dimensional all-around air duct layout, providing a comfortable environment in both summer and winter while avoiding discomfort from extreme weather conditions.



Blade front view and control system



Air suspension seat



Three-dimensional air outlet



Hexahedral cab

Product options and smart kit

Module	Standard configuration	Optional/additional
Power system	Dongfeng Cummins QSL8.9 Euro III	/
	Oil-bath intake pre-filter	/
	/	/
Transmission	ZFCP290 manual/automatic integrated	/
Rear axle	NAF mining rear axle	Meritor mining rear axle
Cab	ROPS/FOPS hexahedron (including beacon light)	/
	Pressurized dedusting system	/
Seat	Air suspension type (with electric heating)	/
	Operator in-place monitoring	/
Swing frame	Four link (including electro-hydraulic bolt)	/
Circle drive	Overload protection	/
Blade	15ft(4572mm)	16ft(4877mm)
Cutting blade	Standard wear-resistant type	Mine wear-resistant type
Wheels	20.5 R25 (tubeless tire)	/
Operating tools	/	Rear ripper
Intelligence	/	/
	Blade floating	/
	Blade buffer	/
	/	Centralized lubrication system
	Reversing camera	/
	/	/

1. The standard operating mass includes the standard configuration of 20.5R25 tire, full load fuel, coolant, lubricant and 75kg operator.
2. Due to the continuous update of technology and products, parameters and configurations are subject to modification without notice. In case of any discrepancy between samples and physical objects, the physical object shall prevail.

Service environment of product

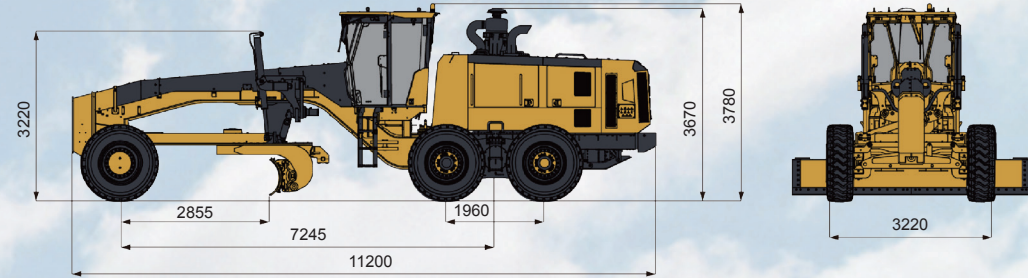
- ◆ The standard intake preheating system + low temperature battery, which can be used in an environment above -20℃.
- ◆ If the temperature is lower than -20℃, an ultra-low temperature preheating system shall be added. Please contact SANY technicians.



Product Parameters

Overall Dimensions

The following are the measured values corresponding to the standard feature, and the actual products shall be subject to the optional features.



Unit: mm

Item		STG335C-10
Engine model		Dongfeng Cummins QSL8.9
Rated power/speed (kW/rpm)		264/2200
Overall dimensions (mm)	Standard configuration: including front and rear counterweights	11200×3220×3780
Operating mass (kg)	Standard configuration: including front and rear counterweights	30300
Tire specifications		20.5 R25 (tubeless tire)
Maximum forward speed (km/h)		40
Maximum reverse speed (km/h)		40
Maximum traction force (kN)(f=0.75)		≥155
Maximum gradeability		≥30%
Maximum steering angle of front wheel (°)		±47
Maximum swing angle of front axle (°)		±15
Maximum swing angle of tandem drive case (°)		Front-upper 15, front-lower 15
Maximum steering angle of frame		±22
Minimum turning radius (m)		9
Blade parameters	Maximum lifting height (mm)	410
	Cutting angle (°)	40
	Length × Chord height (mm)	4572×686 (standard) 4877×686 (optional)