

Efficient and energy-saving

- ◆ Powered by Cummins Euro III engine with low-speed, high-torque output, combined with a three-stage air filtration system, a three-stage fuel filtration system, and precise fuel injection technology, it delivers outstanding performance with lower emissions;
 - ◆ With the power-adaptive intelligent matching technology, the customized power curve automatically aligns with different operating gears for optimal performance. One-button activation for cruise control and ECO mode maximizes work efficiency while minimizing fuel consumption;
- The four-bar linkage swing frame has an operating range of 7.1m and a blade lifting cylinder span of 1.63m. It ensures smooth and efficient earth-moving operations. The blade lifting height is 505mm, allowing for easy loading onto and unloading from trailers.

Convenient maintenance

- ◆ The fully sealed rolling disc working device has no easily-worn parts and is more suitable for heavy-dust working conditions. The maintenance cycle is 250h or 1 month;
- ◆ The large-opening engine hood and dedicated fuel tank inspection port make it easy to access and replace the engine's three filters, as well as the transmission and hydraulic filter elements;
- ◆ The electrical components are centrally arranged, which is convenient for engine fault diagnosis and electrical system troubleshooting;
- ◆ The intelligent cloud system features self-diagnosis of faults and self-reminders for maintenance, enabling users to have a clear understanding of the equipment's operating status.

C105 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



Grader
STG190C-10S
Euro III

QUALITY CHANGES THE WORLD

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Product Highlights

Optimal control experience

- ◆ **Extreme vision:** The ROPS/FOPS hexahedral all-glass sealed cab is more suitable for dusty working conditions. The blade movement is clearly visible, and the noise level near the driver's ear is 76 dB (A);
- ◆ **Precise control:** The variable pump load-sensitive hydraulic system enables on-demand flow distribution, resulting in less hydraulic system heat generation, fast blade movement and excellent micro-motion performance for effortless achievement of precise leveling operations;
- ◆ **Comfortable driving:** cruise control, one-button lowering, blade floating, mining shock-absorbing seat, 7-inch LCD touch screen (integrated reversing camera), membrane buttons, 7 languages freely selectable.

Reliable and durable

- ◆ It is designed based on the simulation of mining load spectrum and has passed the verification of extreme mining working conditions, ensuring no cracking, no looseness and no oil leakage;
- ◆ The reinforced rear axle features comprehensive upgrades in slewing bearing, wheel hub reducer and chains, achieving 20% increased load-bearing capacity. The silent differential lock is applied to address the industry-wide issue of noise generation during turning;
- ◆ The front axle adopts an enlarged wheel side bearing and a labyrinth seal design, which increases the load-bearing capacity by 20%, making it more adaptable to wading working conditions in rainy areas;
- ◆ Fully sealed roller disc working device is resistant to sand and gravel, requires no clearance adjustment, and has no easily-worn parts;
- ◆ 19000N · m overload protection worm gear case effectively reduces the impact of sudden load on structural parts.

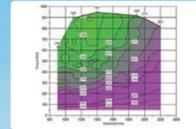


STG190C-10S

Grader
C10S Series

Power adaptive intelligent matching technology

- The customized power curve is automatically matched with different working gears to reduce operating fuel consumption.
- The ECO mode can be selected with one button according to the working conditions, so as to achieve maximum working efficiency and minimum fuel consumption.



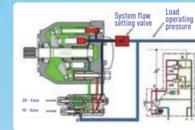
3rd-generation reinforced rear axle for mining applications

- The reinforced three-seal slewing bearing (patented) offers a maintenance interval of over 1,000 hours;
- An enlarged wheel hub bearing, patented waterwheel lubrication system, reinforced chain, and NO-SPIN silent differential lock collectively extend service life by 50%.



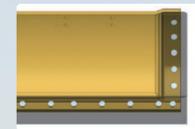
Variable pump load-sensitive hydraulic system (PPPC)

- The hydraulic flow is dynamically matched with load changes, the hydraulic system generates less heat and has low energy consumption, meeting the requirements of multi-handle synchronous operation;
- The large-displacement operation plunger pump and blade slewing drive motor increase the blade's soil swinging capacity by 56%;
- Load-sensitive multi-way valve delivers precise control with an effective stroke >50%, featuring a handle operating force <25N for effortless operation.



Rolling disc working device & one-piece molded and wear-resistant blade

- The fully sealed slewing bearing working device has high swing precision and is more suitable for heavy-dust and dusty conditions. The grease filling interval is 250h or 1 month, there are no easily-worn parts, and the service life is >10000h;
- The one-piece molded wear-resistant blade replaces the traditional welding blade, with a strength increased by more than 2 times, not easy to deform, and a wear resistance of >10000h.



Safe and comfortable driving experience

- 76dB(A) hexahedral ROPS/FOPS cab with best sealing performance in the industry, 5.8kW heating and cooling air conditioner, mining shock-absorbing seat;
- Left and right sliding windows, radio, fan, USB charging, storage box, optional electrically heating rearview mirrors, glass defrosting and heating system;
- 7-inch touch screen, integrated reversing camera, membrane buttons, 7 languages (Chinese, Russian, English, French, Spanish, Portuguese, Indonesian) freely selectable, fault self-diagnosis and automatic reminders for regular maintenance.



Optional Configurations

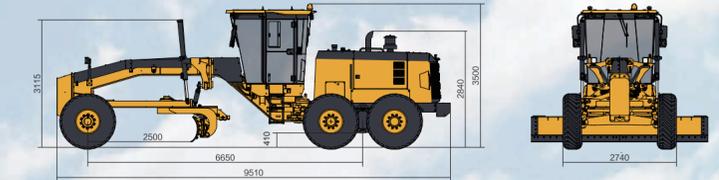
Category	Standard Configuration	Optional/additional	Application Scenarios of Optional Parts
Drive axle	Disc brake	Wet brake	Operations in mines and on roads of mountainous area
Working machines	-	Front bulldozer	Large-volume loose material traction
	-	Rear ripper (5 large teeth)	Crushing and loosening of hard soil
	-	Front scarifier (11 teeth)	Loosening before leveling the farmland roads
Blade & Intelligence	12-foot blade	14-foot blade	Adapt to different road and site widths
	One-button lowering	-	Earthwork fine leveling and road snow removal
	Blade snow removal floating	-	Road snow removal
Tire & protective shield	17.5-25 wavy pattern	17.5-25 herringbone pattern	Soft ground
		17.5-25 block pattern	Snowfield in the mining area
Air filter	Ordinary cylindrical air filter	Oil-bath air filter	Desert and mine
Optional for low-temperature	Engine intake preheating	-	Environment with temperature range from 0°C to -10°C
	Normal-temperature battery (-10°C)	Low-temperature battery (-29°C)	Environment with temperature range from -10°C to -20°C

Remarks:
1. The standard operating mass includes the standard configuration of 17.5-25 tire, full load fuel, coolant, lubricant and 75kg operator.
2. Due to the continuous update of technology and products, parameters are subject to modification without notice. In case of any discrepancy between samples and physical objects, the physical object shall prevail.

Product Parameters

Overall Dimensions

All dimensions are approximate and overall dimensions vary depending on the service condition of the device.



Unit: mm

Item	STG190C-10S	
Engine emission	Stage III	
Engine model	CUMMINS QSB6.7-C190-30	
Rated power/speed (kW/rpm)	142/2000	
Peak torque (N.m)	931	
Overall dimensions (mm) (L × W × H)	Standard configuration: with front and rear counterweights	9510×2740×3500
	Option: front dozer + rear ripper	11230×2740×3500
Operating mass (kg)	Standard configuration: with front and rear counterweights	15800
	Option: front dozer + rear ripper	17800
Forward speed (km/h)	5/9/12/19/23/38	
Reverse speed (km/h)	5/12/23	
Blade length × chord height (mm)	3660×620 (standard)	
Maximum lifting height of blade (mm)	505	
Tire model	17.5-25 12PR	
Fuel tank volume (L)	400	
Hydraulic tank volume (L)	140	

