

## Reliable and durable

- ◆ Designed based on mining load spectrum simulation and verified by extreme mining conditions to ensure no cracking, loosening, or leaking;
- ◆ Mining rear axle with NO-SPIN automatic differential lock, simple to operate. Reinforced slewing ring, wheel hubs, and chains, increasing service life by 50%;
- ◆ Front axle features oversized wheel hub bearings and a labyrinth seal design, increasing load capacity by 20% and improving adaptability to wading conditions in rainy areas;
- ◆ Fully sealed roller circle working device is resistant to sand and gravel, requires no gap adjustment, and has no wearing parts; 19,000 N·m overload protection worm gearbox effectively reduces the impact of sudden load changes on structural components;

## Convenient Maintenance

- ◆ Fully sealed roller circle device has no wearing parts, is better adapted to harsh conditions, and has a maintenance interval of 250 hours or 1 month;
- ◆ Large-opening engine hood makes engine filters and hydraulic filters easily accessible for replacement;
- ◆ Electrical components are concentrated at the cab entrance, facilitating engine diagnostics and making relay and fuse replacement more convenient;
- ◆ Smart cloud system provides fault self-diagnosis and automatic maintenance reminders, keeping equipment status under control.

C10S Series



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# SPECIFICATION



## Motor Grader STG230C-10S

Heavy-Duty All-Rounder - Cummins Stage II

QUALITY CHANGES THE WORLD

[www.sanyglobal.com](http://www.sanyglobal.com)

## Product Highlights

### Ultimate Control

- ◆ **Ultimate Visibility:** ROPS/FOPS hexahedral fully sealed glass cab, better adapted to dusty conditions; blade movements are clearly visible; operator ear noise level is 76dB (A) ;
- ◆ **Precise control:** Load-sensing hydraulic system ensures fast blade action and excellent inching performance; the light steering system allows for effortless fine leveling operations;
- ◆ **Comfortable driving:** High-back mining-type suspension seat with headrest provides maximum support for long driving hours. 7-inch LCD touch screen, membrane keys, rear-view camera, and 7 selectable languages.

### High Efficiency Operation

- ◆ Optimally matched power train system achieves the best balance between traction and speed, increasing operating efficiency by 10% compared to industry peers;
- ◆ 4-link swing frame, 7.1m working range, 1.63m blade lift cylinder span for stable and efficient grading; 505mm blade lift height for easy trailer loading and unloading;
- ◆ Compared with industry peers, cylinder speed is 30% higher, and blade rotation speed is 20% higher.

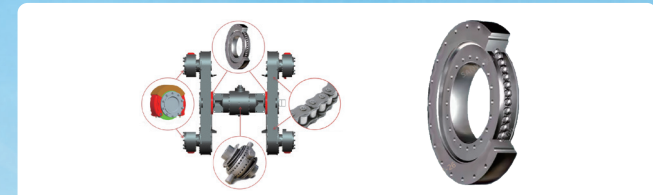


## STG230C-10S

Motor Grader  
C10S Series

### 3rd Generation Reinforced Slewing Ring Drive Axle

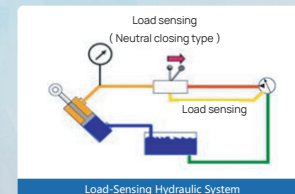
- Reinforced double-seal maintenance-free slewing ring (patented), maintenance interval >1,000h;
- Oversized wheel hub bearings and water-wheel type lubrication structure (patented), reinforced chains, and NO-SPIN silent differential lock increase service life by 50%.



3rd Gen Reinforced Drive Axle Maintenance-free Slewing Ring

### Load-Sensing Hydraulic System

- Hydraulic flow dynamically matches load changes; multi-way valve effective stroke >50%, providing precise control; handle operating force <25N for effortless operation.



Load-Sensing Hydraulic System



Multi-handle Synchronous Operation

### Roller Circle Heavy-Duty Working Device

- Fully enclosed roller circle working device is resistant to sand and gravel, offers high rotation precision, has a grease interval of 250h or 1 month, no wearing parts, and a lifespan >10,000h;
- 4-link swing frame provides a wide 7.1m working range and 505mm blade lift height for easy loading onto flatbed trailers.



Fully Sealed Roller Circle Working Device



4-Link Swing Frame

### Quiet and Comfortable Driving Experience

- 3rd generation 76dB ultimate visibility cab offers 360° blind-spot-free view; industry-leading sealing minimizes dust entry, ensuring a comfortable driving environment;
- High-back mining-type suspension seat with headrest provides maximum support for long driving hours;
- Luxury interior includes sliding windows (left & right), radio, fan, USB charging, storage box, etc.



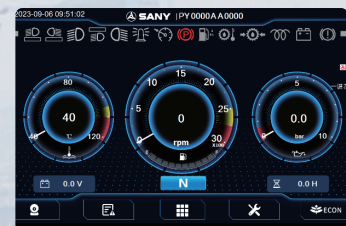
Blade Front Visibility & Control System



Mining Suspension Seat

### 3rd Generation Intelligent Display & Control System

- 7-inch touch screen with integrated rear-view camera and 7 freely selectable languages (Chinese, Russian, English, French, Spanish, Portuguese, Indonesian);
- Smart cloud system provides real-time machine status monitoring, fault self-diagnosis, and automatic prompts for periodic maintenance.



### Optional Configurations

Category	Option/Add-on	Application Scenario
Drive Axle Option	Wet Brake Rear Axle	Mining, mountainous road operations
Work Implements Option	Front Dozer Blade	Moving large volumes of loose material
	Rear Ripper (5 large teeth)	Breaking and loosening hard soil
	Front Scarifier (11 teeth)	Loosening before farmland road leveling
	Mid-mount Scarifier (11 teeth)	Loosening before farmland road leveling
Blade & Intelligence Option	12/14 ft Blade	Adapting to different road and site widths
	Blade Float System	Ice/snow removal, mine road maintenance
Tires & Accessories	Auto-leveling System	Precision leveling for roads and sites
	17.5 Bias Ply Tire (Herringbone)	Sandy terrain, farmland
	17.5 Radial Tire (Block Pattern)	Mining and gravel conditions
Air Filter	Tire Fenders	Snow removal and safety requirements
Cold Start Option	Oil Bath Air Filter	Desert, mining
	Engine Intake Preheat System + Normal Temp Battery	0 C to -10 C Environment
	Engine Intake Preheat, Low Temp Battery (-29 C)	-10 C to -20 C Environment
	Coolant, Fuel, Oil Lines, Filter Heating, Low Temp Battery (-40 C)	-20 C to -40 C Environment

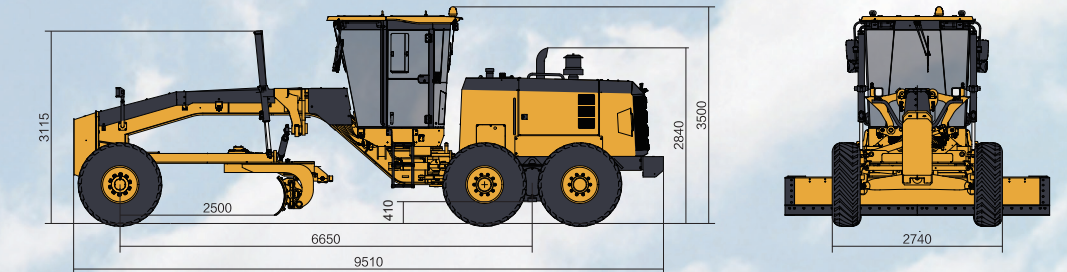
Remarks:

- Standard operating weight includes standard configuration 17.5-25 tires, full fuel, coolant, lubricants, and a 75kg operator.
- Due to continuous technology and product updates, parameters are subject to change without notice. If the brochure differs from the actual product, the actual product prevails.

## Product Parameters

### Overall Dimensions

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



Unit: mm

Item	STG230C-10S
Engine Emissions	Cummins Stage V
Engine Model	6CTAAB.3-C240
Rated Power/Speed kW/rpm	179/2200
Overall Dimensions (mm)	Standard: With front/rear counterweights
	Optional: Rear Ripper
	Optional: Front Dozer + Rear Ripper
Operating Weight (kg)	Standard: With front/rear counterweights
	Optional: Rear Ripper
	Optional: Front Dozer + Rear Ripper
Forward Speed (km/h)	6/10/12/21/27/42
Reverse Speed (km/h)	6/13/27
Blade Length × Chord Height (mm)	3965×620 (Standard)
Max. Blade Lift Height (mm)	505
Fuel Tank Capacity (L)	400
Hydraulic Oil Tank Capacity (L)	140

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