

Safe and reliable

- ◆ **Safe and worry-free:** The three-level braking system (service brake, parking brake, and emergency brake) ensures zero risk and zero accidents during equipment use and construction operations. The fully hydraulic braking system is both reliable and maintenance-free;
- ◆ **Durable Core Components with Excellent Value Retention:** The new generation of predictive maintenance technology provides real-time monitoring of rear axle temperature, hydraulic oil cleanliness, and engine oil, water, and air levels. Intelligent alerts help ensure healthy, stable, and reliable operation.

Drive in Comfort

- ◆ **Efficient Air Conditioning:** The fully upholstered cab features surround-type A/C vents (4 in the front, 2 on each side), delivering effective airflow. Even in peak summer heat, the cab maintains a temperature of 18.9° C with only a 4° C internal temperature difference;
 - ◆ **Low Noise Operation:** The in-cab noise level is as low as 81.7 dB, offering a quiet working environment;
- Comfortable During Long Vibrating Operations: The new-generation cab provides shock absorption performance 30% better than the industry standard, and noise levels are 5 dB lower than the average.
- Standard features include a 7-inch touchscreen LCD and silicone buttons, offering great visual experience and effortless operation.

C10S Series



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Warm reminder:
In order to ensure the safe and reliable operation of your diesel engine, please add V1 diesel and urea solution in line with national standards, refer to the instruction manual and relevant standards for details.
As the technology is constantly updated, technical parameters and configurations are subject to change without prior notice.
The machine on the picture may include additional equipment, this album is for reference only, subject to the actual.
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SANY®

SPECIFICATION



Road roller SSR220C-10S

QUALITY CHANGES THE WORLD
www.sanyglobal.com

Product Highlights

The new-generation C10 full-hydraulic dual-drive single drum roller offers powerful climbing and compaction performance. It is especially suitable for compacting thick cement-stabilized bases, earthworks, dams, and similar working conditions.

Strong Climbing and Terrain Handling Capability

- ◆ **50% Climbing Ability:** Equipped as standard with a high-ratio mining-grade drive axle, a high-ratio reducer, and desert tires, the roller delivers exceptional driving force and traction;
- ◆ **Excellent Off-Road Performance for All Terrain Compaction:** Gear-type anti-slip technology allows independent adjustment of the driving force between the drum and the tires, significantly improving its ability to escape tough terrain.

High Compaction Efficiency

- ◆ **High-Density Compaction:** The static linear load and amplitude are optimally matched to achieve a compaction degree of CP973;
- ◆ **Smooth and Even Finish:** With uniform pressure technology, the deviation in amplitude uniformity remains under 5%.



SSR220C-10S

Road roller
C10S Series

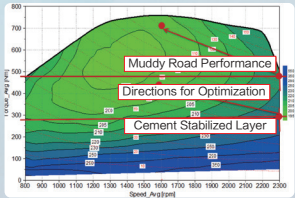
Dual-Drive Anti-Skid and Escape Technology

- ◆ Equipped with standard gear-type anti-skid technology, the system allows independent adjustment of driving force between the steel drum and rear tires, significantly enhancing escape capability in tough conditions;
- ◆ Electronic anti-skid (intelligent front and rear drive control) and synchronous shunt anti-skid (independent wheel drive without interference) are available as optional features, offering even greater off-road escape capability.



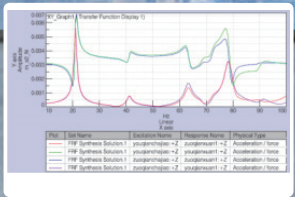
Energy-Saving Technology for Vibratory Road Roller

- ◆ The engine's power, speed, and torque are intelligently adjusted to match load requirements, ensuring optimal efficiency and reduced fuel consumption;
- ◆ Gradual acceleration from zero to stable frequency reduces peak power during vibration start-up;
- ◆ Smooth starts lower peak power demands during machine movement.



Ergonomically-designed Cab and Vibration-reducing Technology

- ◆ The newly designed ergonomic cab features a large panoramic curved glass windshield for enhanced visibility;
- ◆ Advanced three-dimensional and flat-surface damping technology ensures industry-leading comfort (with vibration intensity as low as 0.99 mm/s).



Patented Vibration Bearing Lubrication Technology

- ◆ SANY's patented waterwheel-style cooling and lubrication system uses only 10L of oil per maintenance cycle, saving over 1,000 yuan per session compared to other brands;
- ◆ 360-degree lubrication eliminates blind spots, ensuring superior heat dissipation and extending bearing life beyond 10,000 hours.



Next-Generation Intelligent Control System

- ◆ The third-generation intelligent controller responds within milliseconds; A 7-inch integrated touchscreen LCD offers simple operation, precise control, and a clear interface; The universal mount allows the screen to adjust freely for optimal viewing angles;
- ◆ New-generation silicone buttons with built-in backlighting and indicators improve usability in low-light conditions, with a lifespan of up to 2 million presses, offering far greater reliability than traditional mechanical switches.



Economic value analysis

Low total cost of ownership, creating 19,000 yuan in additional annual value for customers

1. Lower Fuel Costs – Save 17,000 yuan per year
 - ◆ Powered by a new-generation engine and energy-saving vibration technology, the roller consumes 2L/h less fuel than industry peers on highway subgrade. With 1,000 working hours annually, that's a savings of 2,000 liters of fuel.
2. Ultra-Low Maintenance Costs – Save 2,000 yuan per year
 - ◆ The vibration drum uses just 10L of lubricating oil (vs. 50L for others), reducing oil costs;
 - ◆ With an inverted engine and rear-mounted pumps, filters (air, oil, diesel) are easily accessible, cutting maintenance time by 50%.

Product options and smart kit (*)

Item	Optional Feature Description
Reversing camera	Enhances rear visibility and safety
Assembled padfoot	Specially adapted for clay with high water content
Smart kits	Enables real-time monitoring of compaction quality
Wear-resistant steel drum	Ideal for rock-based construction on water conservancy dam sites
Intelligent reverse parking radar for obstacle avoidance	Meet the user's safety requirements
ROPS cab	Meet the certification requirements
Electronic anti-skid	Used for sandy and wet soil compaction, and prevents drum and tire slippage during operation
Synchronous shunt anti-skid	Used for sandy and wet soil compaction, and prevents drum and tire slippage during operation
Rock tires (20.5-25)	Designed for wear and puncture resistance in non-sandy environments, offering extended service life

Intelligent Compaction Assistance System



Real-time detection of compaction parameters including ICV (Intelligent Compaction Value), amplitude, and vibration frequency; All data is visualized on the on-board display for instant feedback and simplified setup.

Unmanned road roller



It can achieve driverless operation within an enclosed site and realize one-click automatic compaction; Equipped with an intelligent compaction system and an equipment management platform.

*: The above features are optional and priced separately.

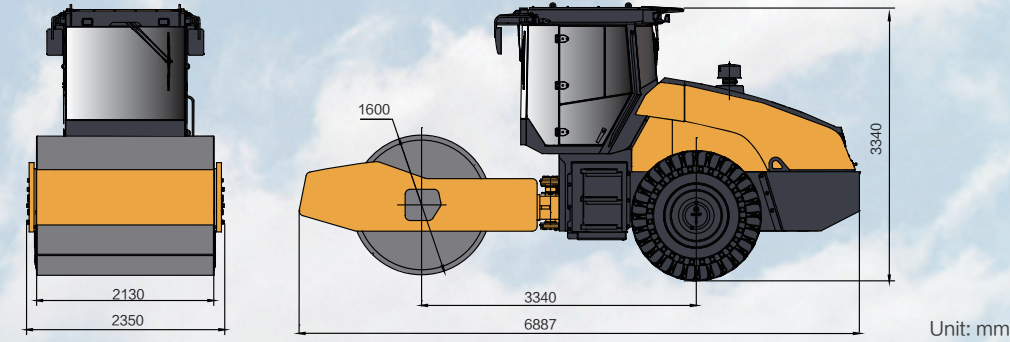
Operating Environment

- ◆ Altitude: <3000m
- ◆ Temperature: -15° C~45° C
- ◆ Gradient: ≤50%

Product Parameters

◆ Overall Dimensions

The following are measured values under standard configurations. Actual dimensions may vary depending on selected options.



Item		Performance parameter	Item		Performance parameter
Load	Operating mass (kg)	22000	Maneuverability	Minimum ground clearance (mm)	420
	Mass allocated to vibrating drum (kg)	14600		Wheelbase (mm)	3340
	Mass allocated to driving axle (kg)	7400		Steering angle (°)	±35
	Static linear load of vibrating drum (N/cm)	672		Swing angle (°)	±12
Compaction	Vibration frequency (Hz)	28/33		Minimum turning outer diameter (mm)	13500
	Nominal amplitude (mm)	2.1/1.1		Tire specification	23.1-26
	Excitation force (kN)	420/300	Supplier	Wechai	
	Diameter of vibrating drum (mm)	1600	Model	WP6G200E331	
	Width of vibrating drum (mm)	2130	Emission	Euro III	
	Vibrating drum rim thickness (mm)	40	Rated power (kW)	147	
Maneuverability	Travel speed (km/h)	0~2.9	Capacities	Battery, V×Ah	24×120
		0~3.7		Fuel tank (L)	300
		0~5.0		Hydraulic oil tank (L)	100
		0~8.9			
	Theoretical gradeability	50			

