

## Power Up Your Drive

- ◆ Step into a new generation of comfort with our industry-leading curved cab—engineered for superior noise and vibration reduction. Enjoy panoramic views through the seamless curved windshield and stay cool with a powerful A/C system and front-facing air vents that deliver direct, refreshing airflow.
- ◆ From the ergonomically designed cab and air suspension seat to the 7-inch full-color display and intuitive electronic joystick, every detail is crafted to make operating the roller a true pleasure.

## Engineered for Extreme Versatility

- ◆ With adjustable front and rear counterweights, allowing front axle load distribution between 67% and 58%, this machine tackles sandy terrain, slopes, and complex sites with confidence and stability;
- ◆ Performs flawlessly at 4,800 meters and -30° C— wherever your job takes you.

## Easier Maintenance

- ◆ The 70° wide-opening engine cover offers effortless access for maintenance tasks. With a low frame height of just 1.1 meters and all filters within easy reach, routine maintenance becomes quick, simple, and hassle-free.

**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**<sup>®</sup>

## SPECIFICATION



**Road roller  
SSR160C-10S**  
Euro III

QUALITY CHANGES THE WORLD

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

## Product Highlights

### Superior Compaction

- ◆ Excitation force of 315/260kN delivers stronger compaction than competitors.
- ◆ Amplitude uniformity under 7% ensures higher-quality results.

### Lower Fuel Consumption

- ◆ Equipped with intelligent power matching and ECO-saving technologies, the engine maintains optimal efficiency at 1700 ± 50 rpm in ECO mode, with fuel consumption as low as 12.4 L/h.

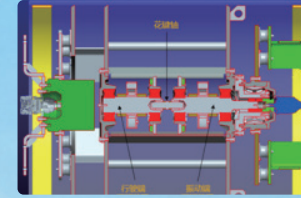


## SSR160C-10S

Road roller  
C10S Series

### Maximized compaction performance

- ◆ With an excitation force of 315kN, the roller delivers powerful compaction performance.
- ◆ Amplitude variation is less than 7%, guaranteeing smoother, more consistent compaction.



### Enhanced climbing and traction capability

- ◆ Front and rear counterweights are adjustable (front axle between 67%–58%) for optimized load distribution and superior climbing performance
- ◆ Equipped with electronic anti-skid technology that independently adjusts the driving force of the front drum and rear tires to effectively prevent slippage



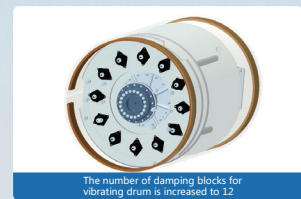
### Drive in comfort

- ◆ Cab certified to FOPS & ROPS standards for maximum safety and reliability;
- ◆ New-generation noise- and vibration-reducing cab keeps in-cab noise as low as 78 dB, best in its class;
- ◆ Ergonomic cab with curved panoramic windshield offers an unobstructed, pillar-free view for safer, more comfortable operation;
- ◆ A high-powered A/C system, front-facing vents, and excellent cab sealing cool the interior to 19.4°C in just 25 minutes, even in peak summer heat.



### Uncompromising reliability

- ◆ The vibratory drum features a patented reinforced four-point support structure and waterwheel-style lubricated bearings for over 10,000 hours of lifespan. The number of damping blocks has been increased to 12 on the drive end and 8 on the vibration end;
- ◆ Equipped with a Danfoss hydraulic system and integrated with self-cleaning technology to ensure long-lasting performance and durability;
- ◆ Reinforced mining-grade rear axle delivers over 5,000 hours of trouble-free operation.



### Low-effort maintenance

- ◆ All filters face outward, allowing quick and easy replacement from outside the frame;
- ◆ Integrated cover with side panel opens up to 70°, making maintenance more accessible than ever;
- ◆ Frame clearance is just 1.1 meters, enabling one-stop maintenance;
- ◆ Predictive Maintenance 2.0 and Gen-3 Smart Display System provide intelligent early warnings and diagnostics.



### Economic value analysis

#### Efficient compaction brings in an extra RMB 12,000 per year

- ◆ Scenario 1: For workload-based contracts, SANY delivers 10% more road compaction annually. Given an industry average yearly return of RMB 120,000, that's an additional RMB 12,000 earned per year (120,000 × 10%);
- ◆ Scenario 2: For projects with fixed workloads, SANY's high efficiency saves up to 10% of working time. Based on an average of 1,500 operating hours per year, that's 150 hours saved annually—equivalent to RMB 14,400 in fuel costs (fuel price: RMB 8/L; fuel consumption: 12L/h). Plus, it saves a full month of operator wages.

- ◆ Amplitude uniformity below 7% delivers smoother, flatter pavement results.

#### Low O&M cost, saving RMB 14,000 per year

- ◆ Lower fuel consumption thanks to a custom engine curve and intelligent load matching. Under high-frequency, high-speed compaction, fuel use drops to as low as 10–12L/h. Saving 1L/h over 1,500 hours at RMB 8/L equals an annual savings of RMB 12,000;
- ◆ Maintenance time is cut by 50%, reducing labor costs by RMB 2,000 per year.

#### Tough and Durable – Built for long-term value

- ◆ Built to mining standards with reinforced core components for maximum durability;
- ◆ Predictive maintenance technology ensures optimal machine health and reliability.

### Product options and smart kit

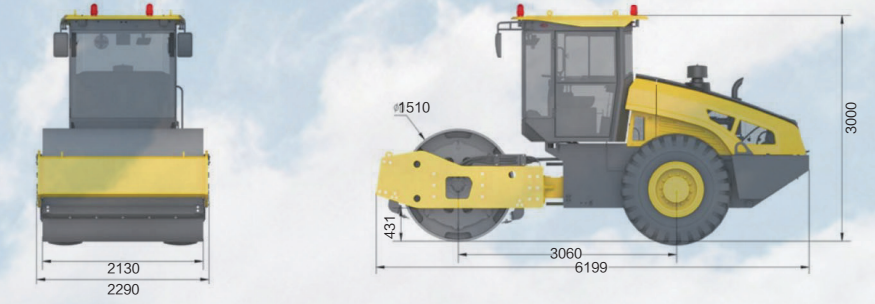
Optional configuration	Application Scenarios and Descriptions	SSR160C-10S(Euro III)
Smooth wheel	Compaction of earthwork, cement stabilized macadam and other subgrade	●
Combined padfoot	Commonly used for clay compaction; padfoot removable	○
Welded padfoot	Padfoot cannot be removed	○
Cab	Enclosed manoeuvring space with air conditioning	●
Driving shed	Open manoeuvring space without air conditioning	○
Rear axle without differential lock	Applicable to conventional subgrade compaction	●
Rear axle with differential lock	Used for compaction of sandy and soft subgrades. Force the left and right tires to roll at the same time, so as to avoid slipping.	○
Tractor tire (herringbone type)	Used for compaction of soft and slippery earthwork subgrade. Stronger grip for better driving force of tires.	○
Standard buoyancy tire (quincunx type)	Commonly used for compaction of cement stabilized macadam and sandy land; Small tire indentation and large contact area with the ground.	●
Thickened buoyancy tire (quincunx type)	Deep pattern, more skid-resistant and wear-resistant	○
Electronic anti-skid system	Often used for compaction of subgrade on sandy land and with large slope (≥30%); Intelligently adjusting the driving force of drums and tires to avoid slipping.	●
Intelligent rolling system	Used for key projects such as expressways and high-speed railways (with strict density requirements); Visually display compactness changes in real time through light display.	○
Backup camera	Display real-time images at the rear of cab; Integrate images into the display screen of cab.	●
Manual release of parking brake	Emergency: When the engine cannot be started, it is urgent to drag the machine away from the site; Press the button manually to release the reducer and rear axle brake, so as to facilitate the dragging of the machine	○

●Standard ○Optional

## Product Parameters

### Overall Dimensions

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



Unit: mm

Item	Performance parameter	Item	Performance parameter		
Load	Operating mass (kg)	16400	Maneuverability	Minimum ground clearance (mm)	431
	Mass allocated to vibrating drum (kg)	11000		Wheelbase (mm)	3060
	Mass allocated to driving axle (kg)	5400		Steering angle (°)	±35
	Static linear load of vibrating drum (N/cm)	516		Swing angle (°)	±12
Compaction	Vibration frequency (Hz)	30/36	Minimum turning outer diameter (mm)	11880	
	Nominal amplitude (mm)	2.1/1.2		Tire specification	23.1-26
	Excitation force (kN)	315/260	Engine	Supplier	ISUZU
	Diameter of vibrating drum (mm)	1510		Model	GH-4HK1XKSC-05
	Width of vibrating drum (mm)	2130		Emission	Euro III
	Vibrating drum rim thickness (mm)	30	Capacities	Battery, V×Ah	24×120
Maneuverability	Travel speed (km/h)	0–2.8		Fuel tank (L)	200
		0–4.0		Hydraulic oil tank (L)	80
		0–5.0			
		0–9.0			
Theoretical gradeability	55%				

