

## More comfortable driving

- ◆ **Comfortable operation:** integrated electric control joystick + third-generation 7-inch touch color screen + 180° rotating ergonomic control system;
- ◆ **Good air conditioning effect:** Through multi-fluid simulation and environmental chamber verification, the indoor temperature is only 20.8℃ at a high temperature of 40 degrees in summer, and the perceived temperature difference is only 1.8℃;
- ◆ **Excellent vision:** Panoramic floor-to-ceiling window glass, transparent and unobstructed vision (the B/C pillars on the rear side of the same vehicle are blocked), easy to see the front and rear drum surfaces and surrounding environment;
- ◆ **Good vibration reduction effect:** The high vibration isolation rate vibration reduction system is adopted, and the vibration isolation rate of the cab reaches more than 96%.



## Lower cost of use

- ◆ **Low fuel consumption:** SANY's patented vibration energy-saving technology makes the fuel consumption of the same mainstream engine in the industry 2.5Lh (13.1L/h) lower than that of peers under maximum load, and the comprehensive construction fuel consumption is 1L/h lower than that of peers;
- ◆ **Low maintenance cost:** The best parts in the industry (Cummins engine, Danfoss hydraulic system and FAG bearing) are reliable and durable without later maintenance costs;
- ◆ **Low maintenance cost:** Three filters (engine oil, diesel and air filters) are within reach, saving time, effort and money.

**C10 Series**



## SANY HEAVY INDUSTRY CO., LTD.

Sany Industrial City, Changsha Economic and Technological Development Zone, Hunan Province, China  
Zip: 410100  
Fax: 0086-731-85835199 Enquiry and Complaint Telephone: 0086-4006098318

Warm reminder:  
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.  
The copyright belongs to SANY Heavy Industry, and no part of this catalog may be reproduced or copied for any purpose without SANY Heavy Industry's written permission.

© China print Apr. 2025 edition



Scan the QR code to follow  
the WeChat Official Account of  
SANY Road Machinery

V 20250409

**SANY**<sup>®</sup>

## SPECIFICATION



**Road roller**  
**STR110/120C-10**  
**STR130/140C-10**

QUALITY CHANGES THE WORLD  
[www.sanyglobal.com](http://www.sanyglobal.com)

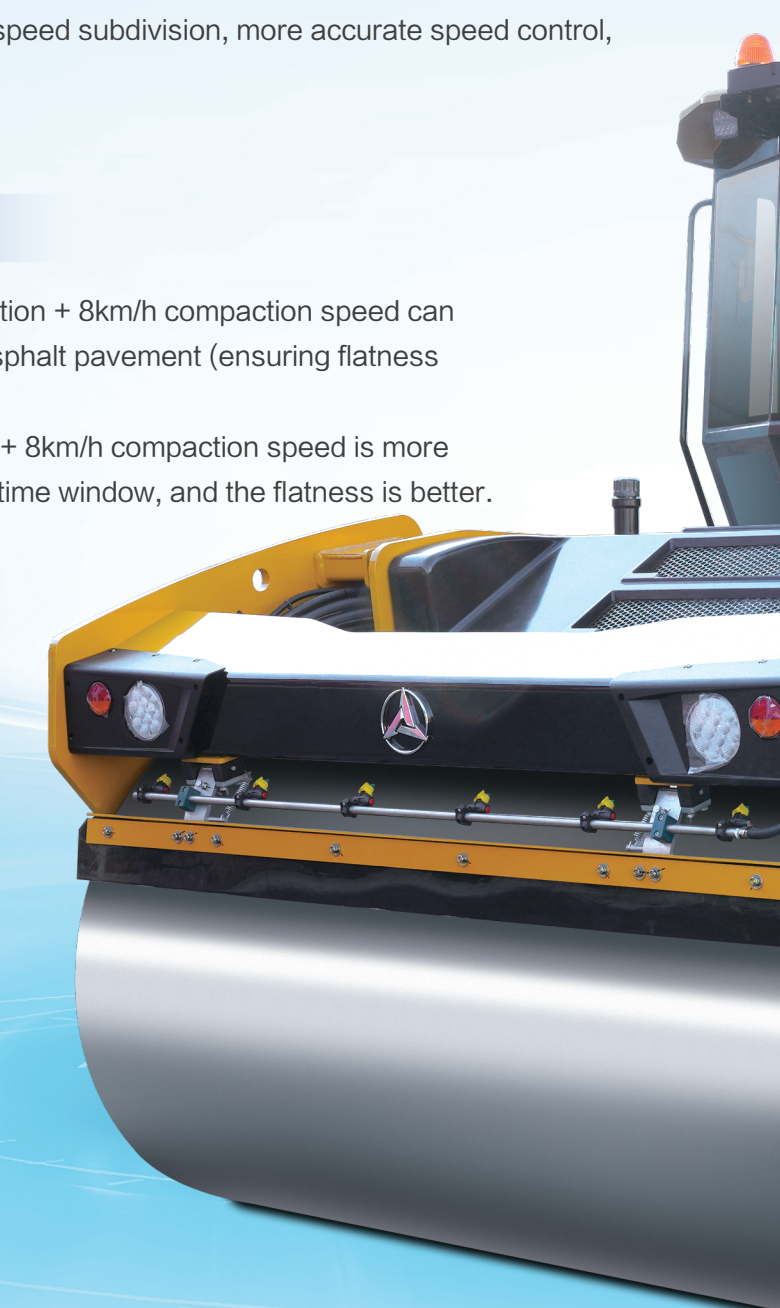
## Product Highlights

### Better compaction

- ◆ **Dual filter core algorithm:** Unique dual filter control algorithm, starting acceleration and parking brake slide curve control, smooth start and stop (small inclination angle), small displacement of asphalt materials;
- ◆ **Dual travel mode:** unique soft and fast dual travel modes to meet high-speed construction or narrow park construction;
- ◆ **Speed subdivision:** 12 gears of travel speed subdivision, more accurate speed control, more comfortable operation.

### Faster compaction

- ◆ **Optimal speed-frequency matching:** 67Hz vibration + 8km/h compaction speed can achieve a maximum impact of 31 times/meter on asphalt pavement (ensuring flatness requirements are met);
- ◆ **Optimal compaction opportunity:** 67Hz vibration + 8km/h compaction speed is more conducive to completing compaction within a short time window, and the flatness is better.



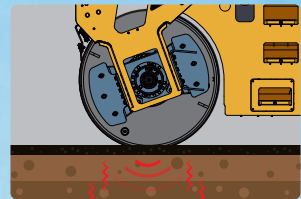


## STR110/120/130/140C-10

## Road roller C10 Series

## High-frequency vibration technology

- ◆ 67Hz high-frequency vibration, the number of ground strikes per minute reaches 4020 times, which is 1020 more than the general frequency of 50Hz, and the ground strikes are faster and more intensive. It helps improve the compaction speed and compaction quality;
- ◆ SANY's patented waterwheel-type lubrication technology provides 360° omnidirectional lubrication for the rotating shaft, ensuring sufficient heat dissipation and lubrication, with a service life exceeding 10000 hours.



## Flexible Start-Stop technology

- ◆ The third-generation control system has a response time of 20ms and a unique dual filtering control algorithm, which can start and stop smoothly without impact;
- ◆ The driving modes include fast mode and flexible mode, which are suitable for construction in narrow areas (municipalities, parks, etc.) and open areas (provincial roads, expressways, etc.) respectively.



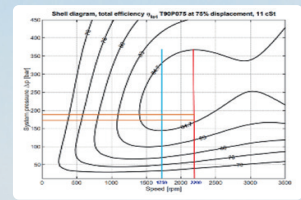
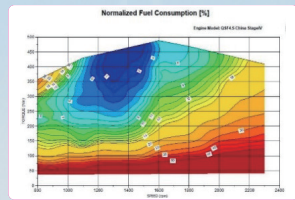
## A new generation of intelligent control system

- ◆ 180° rotatable ergonomic control system, convenient for different comfortable sitting postures;
- ◆ The 7-inch touch integrated display and control LCD screen is characterized by simple operation, accurate control and clear interface; the universal adjustment display can be adjusted at will;
- ◆ 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 physical switches.



## The third generation vibration energy-saving technology

- ◆ Optimum matching control of engine and pump allows the engine to work in a low fuel consumption range, while the vibration pump and travel pump work in a high efficiency range, reducing fuel consumption;
- ◆ Vibration peak clipping, accelerating from 0 to stable frequency in steps, so as to reduce the peak power when starting vibration;
- ◆ Peak reduction during travel, flexible start, reducing peak power during travel.



## Travel temperature control technology

- ◆ The industry's unique temperature control technology enables intelligent monitoring of the temperature of key components of the travel system and implements physical cooling to ensure the reliability of core components during high-speed and high-frequency compaction.

### Service environment of product

- ◆ Allowable altitude:  $\leq 4000\text{m}$
- ◆ Allowable temperature:  $-20^{\circ}\text{C} \sim 45^{\circ}\text{C}$
- ◆ Vibration travel slope:  $\leq 30\%$

## Optional Features & Smart Kits

Item	Description of optional parts
Without cab	Configuration of control platform canopy
Active safety	Intelligent radar obstacle avoidance
Compactness meter	Used for online detection of compactness on construction site
Mechanical anti-collision system	Meet the user's safety requirements
Edge cutter	Asphalt road edge finishing
Wheel-side lamp	Construction at night
License plate holder	Meet the customer's license plate installation requirements

## Intelligent supporting facilities and services

### Intelligent compaction assistance system



It detects pavement compaction parameters (IC, compaction value, amplitude and vibration frequency) in real-time;  
All data is visualized on the on-board display for instant feedback and simplified setup.

## Unmanned roller



Unmanned driving is realized in the closed site, and one-button automatic compaction is achieved; it is equipped with an intelligent compaction system and equipment management platform.

\*: The above features are optional and priced separately.

## Economic value analysis

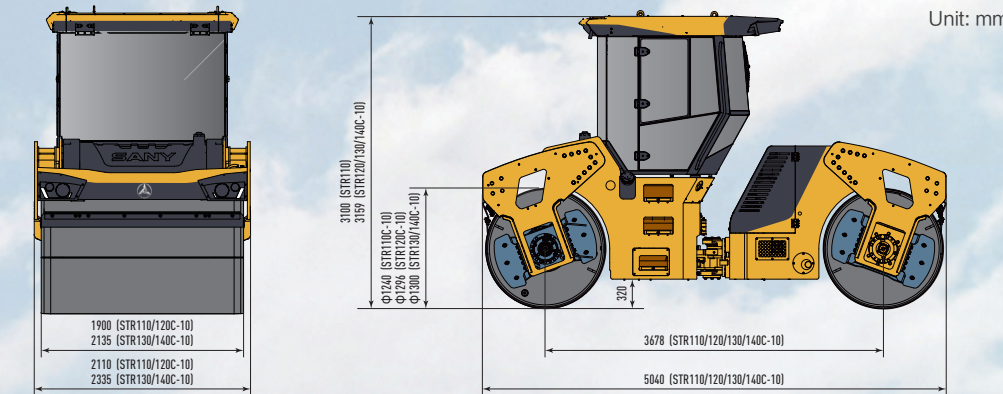
## Sany STR130C-10 double drum roller creates more value for customers

- 1. High compaction efficiency and strong adaptability to post construction settlement**
  - ◆ Suitable for self-use/rental: A Sany 13-ton double drum roller can meet the initial rolling and finishing requirements of a 7-meter wide road, reducing equipment investment costs.
- 2. Low cost of use – saving about RMB 7,500/1,000 hours**
  - ◆ The third generation of vibration energy-saving technology and intelligent electronic control technology, achieving a fuel consumption rate that is 2.5L lower per maximum load hour and 1L lower in overall fuel consumption compared with the industry average.

## Product Parameters

### ◆ Overall Dimensions

The following are standard configuration measurement values; actual values may vary depending on optional components.



Item	STR110C-10	STR120C-10	STR130C-10	STR140C-10
Operating weight (kg)	11500	12000	13000	13600
Front and rear distributed load (kg)	5750/5750	6000/6000	6500/6500	6800/6800
Static linear pressure (N/cm)	296/296	296/296	298/298	312/312
Vibration frequency (Hz)	50/61	50/61	51/67	51/67
Amplitude (mm)	0.75/0.3	0.75/0.3	0.65/0.3	0.65/0.3
Exciting force (kN)	140/94	140/94	163/117	163/117
Travelling speed (km/h)	0~12	0~12	0~12	0~12
Operation speed (km/h)	0~8	0~8	0~8	0~8
Theoretical gradeability: static mode / vibrating mode (%)	35/30	35/30	35/30	35/30
Engine brand and model	Dongfeng Cummins QSB4.5-C160-30	Dongfeng Cummins QSB4.5-C160-30	Dongfeng Cummins QSB4.5-C160-30	Dongfeng Cummins FOSB4.5-C160-30
Emission stage	Euro III	Euro III	Euro III	Euro III
Rated power/speed (kW/rpm)	119/2200	119/2200	119/2200	119/2200
Fuel tank volume (L)	210	210	210	210