



SANY SINGLE DRUM ROLLER SSR SERIES

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International branded key parts and complete testing system ensure high reliability

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The design concept of more than expected brings extra benefits to customers

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OVERVIEW

New Industrial Design

New industrial design of SSR series roller won the award of Furong Cup Enterprise Innovation Prize of Hunan province in China. Arc windscreen is used in front cab to form a streamline model with rear tapered hood. Red & yellow painting make it looks full of passion and powerful.







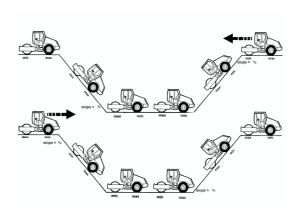
Visibility

Wide rear view meets the international safety standard of 1m x 1m.



Anti-slip Control System (Optional)

Anti-slip control system improves the machine's adaptability to different jobsites and gradeability.



Rear-positioned Triple Pump

The triple pump is positioned in the rear part of the roller for easy maintenance.



Electrical System

SANY patented SYMC electrical system is equipped with LCD display screen. It features self-diagnose and easy to upgrade.



Cab

The cab with FOPS & ROPS certified highly ensures operator's security. Devices such as air conditioner, cup seat, speakers are equipped to create a spacious & comfortable space for the operator.

Excellent visibility increases operator confidence and productivity in all grader applications.





RELIABILITY

Technical Features Of The Roller

- Traveling system with 4-gear stepless speed regulation and 4 traction modes.
- The unique pouch-type lubricating mechanism is adopted to lubricate and cool the vibration bearings to prolong bearings' lifespan.
- 4-grade vibration absorbing system and mechanical damping device provide a comfortable working environment for operator;
- 3 step brake system including traveling brake, parking brake and emergency brake guarantees safe & reliable operation.
- Key parts are purchased from international branded company to ensure machinery's reliability



4-grade vibration



Special rear axle for rollers, manufactured by DANA (USA)

Testing

Before being launched, every new model single roller goes through strict tests in all aspects including vibration parameters, vibration absorbing effects, power match, ergonomics, stress analysis, and so on.

There is also a reliability test on site which is more than 1000 hours.



Lean Production

Key parts are machined by digital welding robots and digital machining center. Automatic assembly production line is adopted in the workshop to improve working efficiency.

Key Parts

Key parts are purchased from international branded company to ensure machinery's reliability, such as Deutz engine, DANA rear axle, Rexroth or Sauer hydraulic components, Bonfiglioli or Rexroth reducer, FAG vibration bearing, and so on.





SYMC Electrical System

SANY patented SYMC electrical system features high intelligent, easy to upgrade, strong anti-interference ability and high reliability.

Digital Technology

Advanced design methods such as 3D design, FEA, dynamic simulation are widely used in R&D process. By this way, key parts and systems such as vibratory drum, driving cab shock-absorption, centralized articulated joint are accurately calculated and designed to shorten R&D circle and improve product quality and reliability.

WORKING PERFORMANCE AND ADVANTAGES

Customers First Choice

As a leader in construction machinery market, SANY full hydraulic single roller is well-commented for its advanced technology and reliable quality. It takes more and more market share. Now the SSR series single roller is the 4th generation products featuring improvement of overall working performance and human-machine engineering.

SSR series roller features stronger vibrating force and larger compaction capacity.



Working in Africa

Energy-saving And Environment-friendly

SSR series product is equipped with Euro II engine which is more energy-saving and environment friendly. Overall power is increased by 10% to get a stronger traction.

Good Adaptability To Construction Sites

Optional anti-slip control system improves the adaptability greatly and increases the gradeability by 20%-30%.

Flexibility

Articulated steering mechanism features small steering radius and big steering & swing angle. With its help, SANY roller can be operated in narrow & uneven place easily.

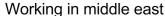
Visibility

Full view cab with big arc windscreen and streamlined rear cover offer a 1m x 1m front & rear view for the operator.

4-Level Shock Absorption Technology

Driver's seat, damp block, articulated joint and shock absorbing device in the vibratory drum make operator enjoy his job.







Working in Southeast Asia

Comfortable And Safe Operation Environment

The cab is equipped with an air conditioner, a cup holder and a stereo. Operation system is designed according to ergonomics. Emergency stop button is positioned next to operation joystick.

Convenient Maintenance

Rear positioned triple pump features convenient maintenance. Hydraulic pipes are rearranged with a reasonable layout. Electrical components are all installed in the electrical control case. Bearings which are free from maintenance are widely adopted in central articulated joint and steering cylinders to save maintenance time for clients.



Working in Brazil







Working in Mongolia

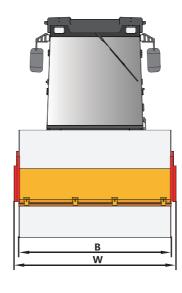
EQUIPMENT SPECIFICATION

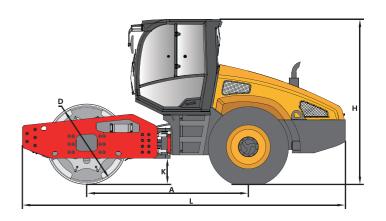
SPECIFICATION

SSR Series Single Drum Roller Data

	Model			SSR120	SSR140	SSR180	SSR200	SSR260
weight load	Operating weight(kg)		12300	14000	18800	20800	26700	
	Distributed weight for drum(kg)		7000	8700	12050	13250	17100	
	Distributed weight for driving axle(kg)		5300	5300	6750	7550	9600	
	Static linear load for drum(N/cm)		329	408	555	610	788	
	Frequency(Hz)		30/36	30/36	29/35	29/35	27/31	
Cor	Nominal amplitued (mm)		1.8/0.9	1.8/0.9	1. 9/0. 95	1. 9/0. 95	2. 05/1. 03	
Compact performance	Exciting force(kN)		275/198	275/198	380/275	380/275	416/275	
ct ance	Diameter of drum(mm)		1500	1500	1600	1600	1700	
10	Width of drum(mm)		2130	2130	2170	2170	2170	
	Rim thickness of drum(mm)		32	32	40	40	42	
	Travel speed	High	(km/h)	0~10.5 0~13.5	0~10.5 0~13.5	0~9.0 0~12	0~9.0 0~12	0~8.0 0~11
		Low	(km/h)	0~7.5 0~8.5	0~7.5 0~8.5	0~5.5 0~7.5	0~5.5 0~7.5	0~6.0 0~7.5
დ ≥	Theoretical gradeability vibration (%)		40	40	45	43	43	
ane erfor		No v	ibration (%)	43	43	50	48	45
Maneuverability performance	Min. Ground cleanrance (mm)		490	490	490	490	495	
	Wheelbase(m)		3040	3040	3200	3200	3261	
	Steering angle (°)		± 35	±35	±35	±35	±35	
	Swing angle (°)			± 12	± 12	± 12	± 12	± 12
	Min.Steering outer diameter(mm)			11800	11800	12400	12500	12800
	Tyre specification		23.1-26-8PR	23.1-26-8PR	23.1-26-8PR	23.1-26-12	23.5-25-16	

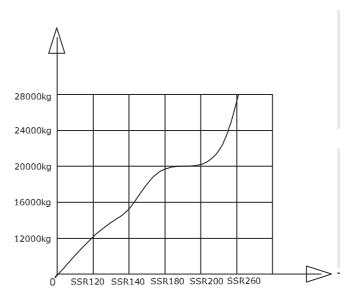
DIMENSION





	SSR120	SSR140	SSR180	SSR200	SSR260
A (mm)	3040	3040	3200	3200	3261
W (mm)	2280	2280	2370	2450	2450
L (mm)	6020	6020	6423	6423	6717
D (mm)	1500	1500	1600	1600	1700
H (mm)	3015	3015	3140	3140	3190
B (mm)	2130	2130	2170	2170	2170
K (mm)	470	470	490	490	495

OPERATION RANGE



	Model	SSR120	SSR140	
Engine Capacity	Manufacturer	Cummins	Cummins	
	Model	4BTAA3.9-C125	QSB4.5-C148	
	Emission	EPAII	EPAII	
	Rated power(kW)	93	110	
	Storage battery(V X Ah)	24 × 100	24 × 100	
	Fuel tank(L)	230	230	
~	Hydraulic oil tank(L)	150	150	
	Model	SSR180	SSR200	SSR260
Engine Capacity	Manufacturer	Deutz	Deutz	Deutz
	Model	BF6M1013EC	BF6M1013EC	BF6M1013EC
	Emission	EPAII	EPAII	EPAII
	Rated power(kW)	148	148	174
	Storage battery(V X Ah)	24 × 100	24 × 100	24 × 100
	Fuel tank(L)	300	300	300
	Hydraulic oil tank(L)	200	200	200

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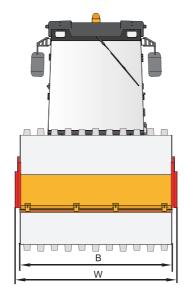
EQUIPMENT SPECIFICATION

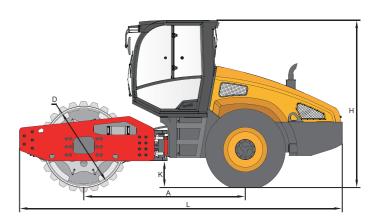
SPECIFICATION

SSR Series Padfoot Single Drum Rollers

	Product Model	SSRD180	SSRP180 SSRD120		SSRP120
Weight load	Operating weight (kg)	18800/20300	20300	12300/13600	13600
	Distributed weight for drum (kg)	12050/13550	12050	7000/8300	8300
	Distributed weight for driving axle (kg	6750	6750	5300	5300
	Static linear load for drum (N/cm)	555/None	None	329/None	None
Cc Pe	Frequency (Hz)	29/35	29/35	30/36	30/36
	Nominal amplitude (mm)	1.9/0.95 / 1.52/0.77	1.66/0.88	1.8/0.9/1.4/0.7	1.4/0.7
Compact Perfor mance	Exciting force (kN)	380/275	380/275	275/198	275/198
act mar	Diameter of drum (mm)	1600/1800	1800	1500/1700	1500
псе	Width of drum (mm)	2170	2170	2130	2130
	Rim thickness of drum (mm)	40	40	32	32
	Travel speed High (km/h)	0~9 0~12	0~9 0~12	0~10.5 0~13.5	0~10.5 0~13.5
	Low (km/h)	0~5.5 0~7.5	0~5.5 0~7.5	0∼7.5 0∼8.5	0∼7.5 0∼8.5
р >	Theoretical gradeability Vibration (%) 45	45	40	40
Maneuverability performance	No vibration (%)	50	50	43	43
rma	Min. Ground clearance (mm)	490	490	490	490
rabil nce	Wheelbase (mm)	3200	3200	3040	3040
Ϊţ	Steering angle ($^{\circ}$)	±35	±35	±35	±35
	Swing angle ($^{\circ}$)	\pm 12	\pm 12	\pm I2	\pm 12
	Min. Steering outer diameter (mm	12400	12400	11800	11800
	Tyre specification	23.1-26-8PR	23.5-25-16PR	23.1-26-8PR	23.1-26-8PR
Engine Capacity	Manufacturer	Deutz	Deutz	Cummins	Cummins
	Model	BF6M1013EC	BF6MI013EC	4BTAA3. 9-C125	4BTAA3. 9-C125
	Emission	EPAII	EPAII	EPA II	EPA II
	Rated power (kW)	148	148	93	93
	Storage battery (V \times Ah)	24×100	24×100	24×100	24×100
	Fuel tank (L)	300	300	230	230
	Hydraulic oil tank (L)	200	200	150	150

DIMENSION





Overall Dimensions

	SSRD180	SSRP180	SSRP120	SSRD120
А	3200	3200	3040	3040
W	2370	2370	2280	2280
L	6423	6423	6020	6020
D	1600/1800	1800	1500	1500/1700
Н	3140/3240	3240	3015	3015
В	2170	2170	2130	2130
K	490	490	470	470

Note: "P" - Padfoot drum
"D" - Smooth drum with padf

INTRODUCTION



Padfoot of SSRP roller is welded while that of SSRD is removable. Removable padfoot of each SSRD can be devided into three parts. Each part is fixed with another one by bolts. Configuration of single drum roller and padfoot single drum roller is almost the same except the padfoot. The use of Padfoot single drum roller is compacting loose soil.

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Quality Changes the World

SANY HEAVY INDUSTRY CO., LTD.

Address: 319 Chuanda Road, Chuansha Economic Park,

Pudong, Shanghai, China, 201200 Service Hotline: +0086-21-60303131

Email: crd@sany.com.cn

For more information, please visit: www.sanygroup.com