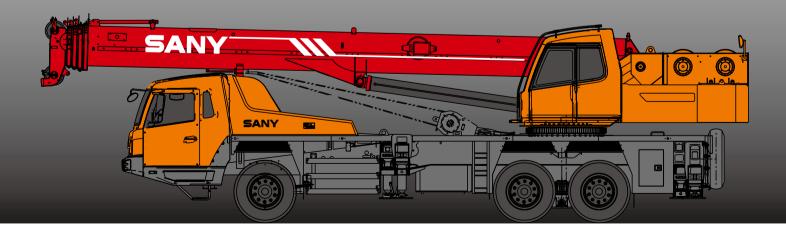


Quality Changes the World





SANY Automobile Hoisting Machinery is one of the core business unit of Sany Heavy Industry, mainly engaged in the research and development of high end, mid to large tonnage crane series, including mobile crane, crawler crane, tower crane and loader crane. It has two industrial parks in Ningxiang and Huzhou, since entering the market, the products of Sany Automobile Hoisting Machinery have received worldwide recognition with advanced technology, lean manufacturing, high reliability and excellent service.

把三一办好办成世界级企业



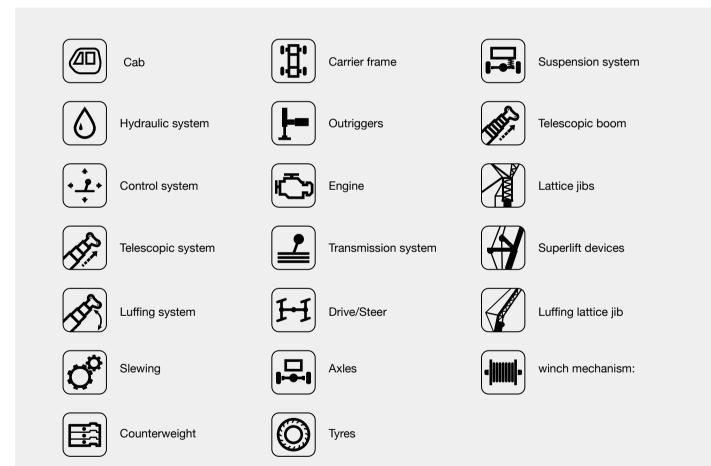




SANY TRUCK CRANE

04 Icon

- 05 Selling Points
- 06 Introduction
- 09 Dimension
- 10 Technical Parameter
- 11 Operation Condition
- 12 Load Chart
- 14 Wheel Crane Family Map





Safety system



Hoist system



Electrical system

Brakes system

4

STC300S TRUCK CRANE SELLING POINTS

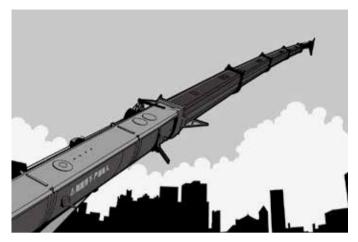


Excellent and stable chassis performance / chassis system

Double-axle drive is used, providing good trafficability and comfortableness under complex road condition with reliable traveling performance.

Engine has the multimode power output function, which reduces power consumption.

The use of tipping over early-warning technology provides high stability and safety of the overall operation.



Ultra long and super strong boom system

10.6m basic boom, 40.5m full-extended boom and Max. lifting height of 49m including jib take the leads in industry in the same tonnage. Rated lifting capacity is 30T, ensuring super strong lifting capacity. Jib mounting angles are 0°, 15°, and 30° which ensure fast and convenient change-over between different operating conditions so as to improve working efficiency of the machine.



Highly efficient, stable, energy-saving and adjustable hydraulic system

Hydraulic system load feedback featuring long service life, high efficiency and low energy consumption is applied to enhance lifting capacity and micro-mobility. Unique steering buffer design is applied to ensure stable braking operation.



Safe, stable, advanced and intelligent electric control system

The adoption of CAN-bus full-digital network control technology ensures stable control signal, simple harness, and high reliability. Timely feedback of data information can achieve the monitoring of the overall working status in real time. The load moment limiter equipping with the comprehensive intelligent protection system is used with accuracy within 3% to provide a comprehensive logic and interlock control, thus ensuring more safe and reliable operation.



Superstructure

Cab Cab	 It is made of safety glass and anti-corrosion steel plate with ergonomic design such as full-coverage soften interior, large interior space, panoramic sunroof and adjustable seats etc., and humanized design providing more comfortable and relaxing operation experience. The display of load moment limiter integrates main console and operation display system, which clearly show the data of all operating superstructure conditions for lifting operation.
O Hydraulic system	 High-quality key hydraulic components such as main oil pump, main valve, winch motor, rotary motor and balancing parts etc. are adopted to achieve stable and reliable operation of the hydraulic system. Superior operation performance is guaranteed by accurate parameter matching. Main valve has flow compensation, load feedback control function, enabling stable and convenient control of single action and combined action under different operation conditions. Winch adopts the variable motor to ensure high operation efficiency. Max. single line speeds of main and auxiliary winches is up to 130r/min which ensures the lifting efficiency take the lead in industry. The use of new hydraulic control variable slewing system ensures more stable starting and control of the slewing operation and excellent micro-mobility.
Control system	 CAN-bus instrument: CAN-bus instrument with a combined intelligent control electrical system is used for easy reading of the traveling parameters at any time. The engine fault warning function is applied to ensure convenient and fast troubleshooting. Load moment limiter: The adoption of high intelligent load moment limiter system can comprehensively protect lifting operation, ensuring accurate, stable and comfort operation.
Luffing system	 Dynamic luffing provides more stable luffing operation at low energy loss Luffing angle: -2°~ 80°.
Relescopic system	Five-section boom is applied with basic boom length of 10.6m, fully extended boom length of 40.5m, jib length of 8 m and lifting height of fully extended boom length of 41m respectively. Max. lifting height is 49m including jib. It is made of high-strength steel with U-shaped cross section and with telescopic operation controlled independent by dual- cylinder rope.
Slewing system	360° rotation can be achieved with Max. slewing speed of 2.5r/min, providing stable and reliable operation of the system.

7

Superstructure

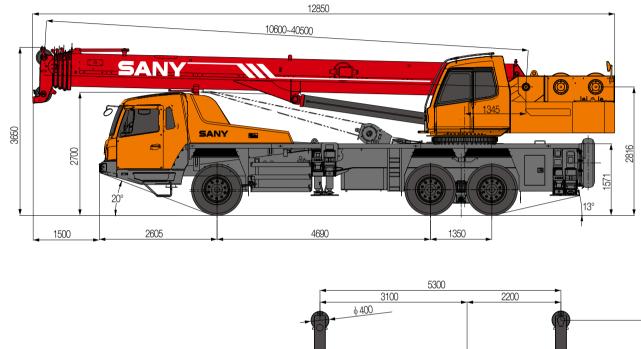
Hoisting system	 The winch adopts the high-pressure automatic variable plunger motor, enabling automatic switch-over between low load high speed mode and high load low speed mode, and ensuring highly efficient operation and stable lifting and lowering of the load. One main hook: 320Kg, one auxiliary hook: 90Kg. Wire rope of main winch: left-handed wire rope 16-35W×7-1960USS, with length of 200m. Wire rope of auxiliary winch: left-handed wire rope 16-35W×7-1960USS, with length of 105m.
Safety system	 Load moment limiter: Load moment limiter calculation system based on lifting load mechanical model is established using an analytical mechanics method, with rated lifting accuracy up to ±3% through on-line non-load calibration, providing full protection to lifting operation. In case of overload operation, system will automatically issue an alarm to provide safety protection for manipulation. Hydraulic system is configured with the balance valve, overflow valve and two-way hydraulic lock etc. components, thus achieving the stable and reliable operation of the hydraulic system. Main winch is equipped with over roll-out limiter to prevent over rolling-out of wire rope. Boom and jib ends are equipped with height limiters respectively to prevent over-hoisting of wire rope. Boom head is equipped with linear transducer, angular transducer and press sensor to indicate the working condition of whole crane in real-time, giving an alarm and cutting off the dangerous action automatically.
E Counterweight	Counterweight is 5500kg, no flexible counterweight.
	Counterweight is booky, no nexible counterweight.
Driving cab	
	 Cab is made of new steel material and sealed rubber structure self-developed by SANY, featuring excellent shock absorption and tightness, which is configured with swing-out doors at both sides, pneumatically suspended driver's seat and passenger seat, adjustable steering wheel, large rearview mirror, comfort driver chair with a headrest, anti-fog fan, air conditioner, stereo radio, and complete control instruments and meters, providing more
Driving cab	 Cab is made of new steel material and sealed rubber structure self-developed by SANY, featuring excellent shock absorption and tightness, which is configured with swing-out doors at both sides, pneumatically suspended driver's seat and passenger seat, adjustable steering wheel, large rearview mirror, comfort driver chair with a headrest, anti-fog fan, air conditioner, stereo radio, and complete control instruments and meters, providing more comfortable, safe, and humanized operation experience. Designed and manufactured by SANY, anti-torsion box structure is welded by fine-grain

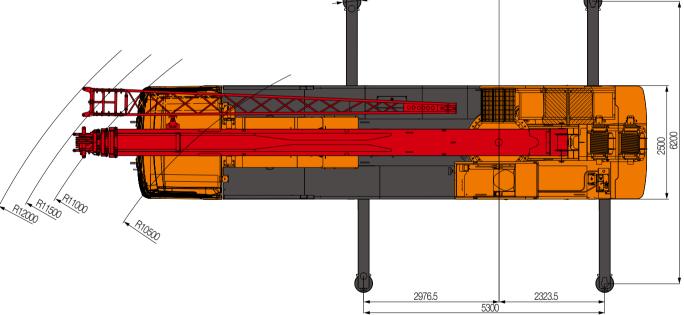


Chassis

Transmission system	 Gearbox: Manual/automatic gearbox is adopted, with 9-gear and large speed ratio range applied, which meets the requirements of low gradeability speed and high traveling speed. Transmission shaft: With optimized arrangement of the transmission shaft, the transmission is stable and reliable. For most optimized transmission, face-tooth coupling transmission shaft is used with large transmission torque.
O Brakes system	 Air serve brakes are used for all wheels with dual-circuit brake system applied. Engine is equipped with an exhaust brake.
Suspension system	All axles adopt the plate spring suspension systems with plate spring passed 100,000 fatigue tests and with optimization of performance parameters of the front and rear plate springs applied to ensure strength and also to provide comfort ridding.
F-I Steering system	 Hydraulic power mechanical steering system is applied for axle 1 with unloading valve installed in the steering gear.
— Outriggers	Four-point supporting of the H-shaped outriggers ensures easy operation and strong stability. They are made of fine-grain high-strength steel sheet. With full hydraulic horizontal telescoping for flexible outriggers.
O Tyres	 11 (number of tyres) - type: 11.00-20-18PR; bias tires are used, featuring with large bearing capacity and durable use.
Electrical system	With 2*12V maintenance-free batteries, the crane power can be cut off manually via a mechanical master power switch.





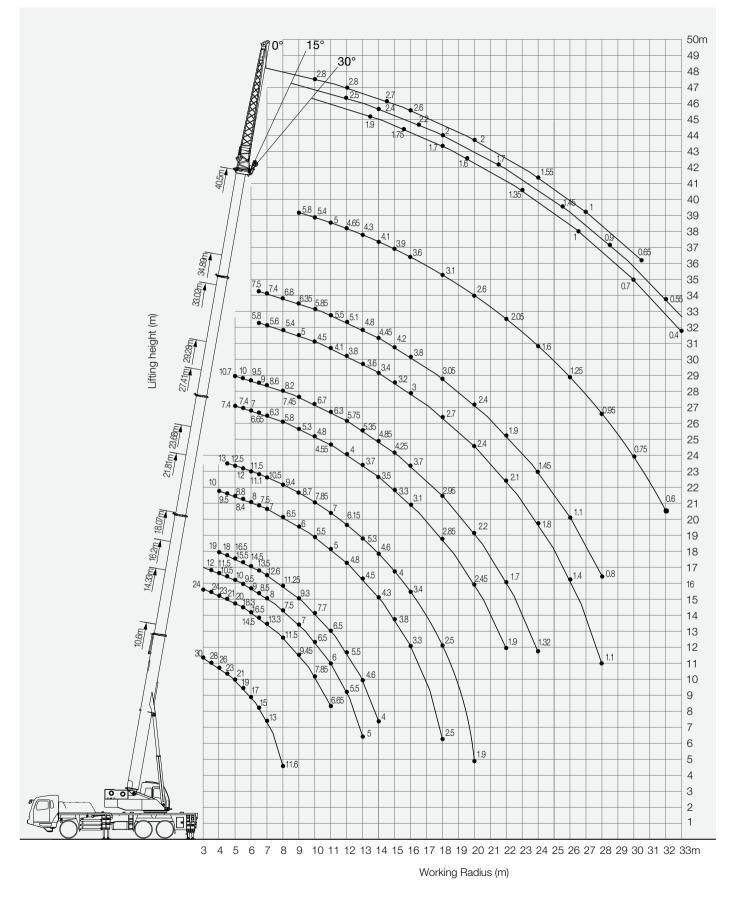




STC300S TRUCK CRANE TECHNICAL PARAMETER

Туре	Item		Parameter	
Capacity	Max. lifting capacity	30 t		
	Overall length		12850mm	
	Overall width		2500mm	
Dimensions	Overall height		3650mm	
	Axle distance		4690mm/1350mm	
	Overall weight		33000kg	
Weight		Front axle load	7000kg	
	Axle load	Rear axle load	26000kg	
	Rated power		213kW/2100(r/min)	
Engine	Rated torque		1050N.m/1200~1400rpm	
	Max.traveling speed		89Km/h	
	Turning radius	Min.turning radius	10.5m	
	Min.ground clearance		220mm	
Traveling	Approach angle		20°	
	Departure angle		13°	
	Max.gradeability	Max.gradeability		
	Fuel consumption per 100km	Fuel consumption per 100km		
	Min.rated range		3m	
	Tail slewing radius of swingtak	Tail slewing radius of swingtable		
	Boom section		5	
	Boom shape		U-shaped	
Main		Base boom	1029kN.m	
performance	Max.lifting moment	Full-extend boom	573kN.m	
parameters		Full-extend boom+jib	387kN.m	
		Base boom	10.6m	
	Boom length	Full-extend boom	40.5m	
		Full-extend boom+jib	48.5m	
	Outrigger span (Longitudinal×	Outrigger span (Longitudinal×Transversal)		
	Max.single rope lifting speed of main winch (no load)		130m/min	
	Max.single rope lifting speed of	130m/min		
Working speed	Full extension/retraction time	100s/100s		
	Full lifting/descending time of	45s/55s		
	Slewing speed		(0~2.5) r/min	
Air conditioner	Superstructure		Cold and Heating	
	Chassis		Cold and Heating	

STC300S Working Ranges





Unit:Kg

- Prerequisites: (1) Operating condition (fully extended boom +jib) 10.6m-40.5m; (2) Outrigger length: 6.2m; (3) 360° rotation; (4) Counterweight: 5.5t.

Working	Main boom							Working				
range(m)	10.6m	14.33m	16.2m	18.07m	21.81m	23.68m	27.41m	29.28m	33.02m	34.89m	40.5m	range(m)
3	30000	24000										3
3.5	28000	24000	12000									3.5
4	26000	23000	11500	19000	10000							4
4.5	23000	21000	10500	18000	9500	13000						4.5
5	21000	20000	10000	16500	8800	12500	7400	10700				5
5.5	19000	18300	9500	15500	8400	12000	7400	10000				5.5
6	17000	16500	9000	14500	8000	11500	7000	9500				6
6.5	15000	14500	8500	13500	7500	11100	6650	9000	5800	7500		6.5
7	13000	13300	8000	12600	7000	10500	6300	8600	5600	7400		7
8	11600	11500	7500	11250	6500	9400	5800	8200	5400	6800		8
9		9450	7000	9300	6000	8700	5300	7450	5000	6350	5800	9
10		7850	6500	7700	5500	7850	4800	6700	4500	5850	5400	10
11		6650	6000	6500	5000	7000	4550	6300	4100	5500	5000	11
12			5500	5500	4800	6150	4000	5750	3800	5100	4650	12
13			5000	4600	4500	5300	3700	5350	3600	4800	4300	13
14				4000	4300	4600	3500	4850	3400	4450	4100	14
15					3800	4000	3300	4250	3200	4200	3900	15
16					3300	3400	3100	3700	3000	3800	3600	16
18					2500	2500	2850	2950	2700	3050	3100	18
20						1900	2450	2200	2400	2400	2600	20
22							1900	1700	2100	1900	2050	22
24								1320	1800	1450	1600	24
26									1400	1100	1250	26
28									1100	800	950	28
30											750	30
32											600	32
Number of lines	8	8	6	6	4	4	4	4	4	4	3	Number of lines
	Telescoping											
II	0	50%	0	100%	0	100%	0	100%	0	100%	100%	I
III	0	0	25%	0	50%	25%	75%	50%	100%	75%	100%	III
IV	0	0	25%	0	505	25%	75%	50%	100%	75%	100%	IV
V	0	0	25%	0	50%	25%	75%	50%	100%	75%	100%	V

Unit:Kg

13

Load	chart	for	iib
Louu	unuit	101	שיינ

Angle of elevation(°)	Angle of elevation(°)				
Angle of elevation()	compensation angle0°	40.5m+8m compensation angle0° compensation angle 15° compensation angle 30°			
78	2800	2500	1900	78	
75	2800	2400	1750	75	
72	2700	2200	1700	72	
70	2600	2000	1600	70	
65	2000	1700	1350	65	
60	1550	1450	1000	60	
55	1000	900	700	55	
50	650	550	400	50	

Notes:

1. Values listed in the table refer to rated lifting capacity measured at flat and solid ground under the lever state of the crane;

2. Value above heavy line shall be determined by strength of the crane and under this line shall be determined by stability of the crane;

3. Working radius listed in the load chart is the actual radius with load;

4. Rated load values determined by stability shall comply with ISO 4305;

5. Rated lifting capacity listed in the table included weights of lifting hooks (320kg of main hook and 90kg of auxiliary hook) and hangers;

6. With the 5th outrigger extended, the value listed in the table shall be applicable for 360° operation;

7. Rated lifting capacity with pulley at boom tip shall not exceed 3500kg. If jib is applied, the rated lifting capacity of the boom shall be deducted by 550kg.

8. If actual boom length and range are between two values specified in the table, larger value will determine the lifting capacity.



STC300S TRUCK CRANE WHEEL CRANE FAMILY MAP

TRUCK CRANE



STC200 Miximum Load Cepechy 20t Telescopic Boom: 4 Sections, 10.6-33m



STC300H Maximum Load Capacity: 50t Telencopic Boont: 5 Sections, 10:5 38 cm



STC800S Maximum Load Cepacity: 80t Telescopic Boom: 5 Sections, 12:2-47m



STC1300C Meximum Load Capacity: 1301 Valencepic Boom: 5 Sections, 13:3-60m



STC250 Modifium Load Capacity: 251 Telescopic Boom: 4 Sections, 10.65-33.5m



STC500 Meximum Load Capacity 501 Releacept: Boom: 5 Sections, 11:5-43m



STC1000 Maximum Load Capacity, 100t Telescopic Boom: 5 Sections, 13:5-52m



STC1600 Meetmum Losd Capacity: 160t Tulescopic Boom: 6 Sections, 13.4-62mi

100

SAC2200



STC250H Moximum Lond Capacity, 258 Telescopic Boarn: 5 Sections, 10.5-39.5m



STC550 Maximum Load Capacity: 55t Tokskopic Hoom: 5 Sections, 11:5 42m



STC1000C Meetnum Lond Capacity: 100t Telescopic Boom: 6 Sections, 13:25-60m



STC2200 Maximum Load Capacity: 220t Totoscopic Riccim: 6 Sections, 14.35-68m

SAC2600



STC300S Maximum Lend Capacity 301 Telescopic Boorn 5 Sectorus, 10.6-10.5m



STC600S Manimum Load Capacity: 601 Telescopic (loom: 5 Sections, 11.3-43.5m



STC1000S Miximum Lond Capitoly: 100t Telescopic Boom 5 Sections, 12:26-56m



STC300TH Maximum Load Capacity 301 Telescopic Boom: 4 Sectional, 10.6:33.5ni



STC750 Maximum Load Gapacity, 75t Talapoopic Boom: 5 Soctiona, 11.8-45m



STC1200S Miximum Load Capacity, 1201 Telescopic Boom: 7 Sections, 12:6-63.5m

.

ALL TERRAIN CRANE



SAC1800 Maximum Load Cepucity: 1801 Telescopic Boom: 6 Sections, 15:5 62m



SAC3500 Maximum Eand Capitolly: 3501 Rescapic Boom & Sections, 15.2-70m





1

-

SRC260 SHC250 Mixerum Land Capacity, 29 Telescopic Boom, 4 Sections, 9.9-31.5m



SRC350 Meximum Load Capacity, 35t Telescopic Boom: 4 Sections, 10-31.5m



20 2.

Maxmun Load Capacity: Sit Telescopic Boom: 4 Sections, 11:25-34.5m



SRC560H Maximum Lond Capacity: 591 Telescopic Boons: 5 Sectiona, 11.5-43m



SRC750 Maximum Lond Capacity 798 Telescopic Boom: 5 Sections, 11.8-45m



SRC1200 Maximum Load Cepacity 120t Telescopic Boon: 5 Sections, 13-49m

SANY







Maximum Loud Capacity: 2601 Interceptic Boom & Sections, 15:65-73m

SRC660



Molimum Load Capacity: 3001 Telescopic Boom 7 Sections, 15.4 85m

....

SAC3000



SAC6000

al lainer r

Mosmum Load Capacity: 220 Tolescopic Boom & Sections, 13/5-62m



Quality Changes the World

SANY AUTOMOBILE HOISTING MACHINERY

Address: SANY Industrial Park, Jinzhou Development Zone, Changsha, Hunan, China. Service Hotline: 4006098318 Email: crd@sany.com.cn For more information, please visit: www.sanygroup.com

For our consistent improvement in techonology, specifications may change without notice. The machines illustrated may show optional equipment which can be supplied at additional cost. Version: 2016.1 Distributed By: