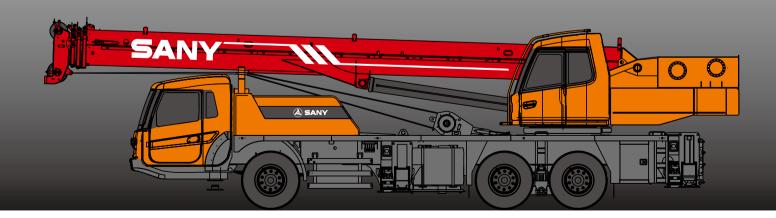


Quality Changes the World





SANY Automobile Hoisting Machinery is one of the core business unit of Sany Hear 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 成世界级企业





STC250 TRUCK CRANE COMPANY BRIFE INTRODUCTION

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





Excellent and stable chassis performance / chassis system

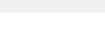
Double-axle drive is used, providing good trafficability and comfortableness under complex road condition with reliable traveling performance.

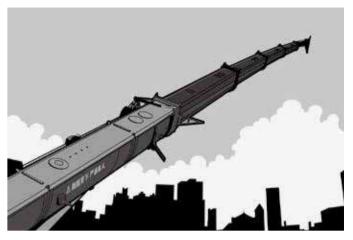
Engine has the multimode power output function, which reduces power consumption.



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

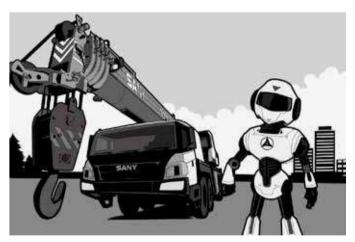
Triple gear pump, load feedback and constant power control are applied to provide strong lifting capacity and good micromobility. Unique steering buffer design is applied to ensure stable braking operation.





Ultra long, super strong and highly sensitive load lifting capacity

Four-section boom of high strength steel structure and optimized U-shaped cross section reduces weight significantly with higher safety rates. Jib mounting angles are 0°, 15° and 30°, which ensures fast and convenient change-over between different operating conditions so as to improving working efficiency of the machine.



Safe, stable, advanced, and intelligent electric control system

Self-developed controller SYMC specially for engineering machinery is configured. 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 equipped 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.

SANY Quality Changes the World

	Superstructure			
Cab	It is made of safety glass and anti-corrosion steel plate with ergonomic design such as full-coverage soften interior, 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	Slewing system	 360° rotation can reliable operation capacity, good st 	
() Hydraulic system	 High-quality key hydraulic components such as main oil pump, rotary pump, main valve, winch 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 	Hoisting system	 The winch adop switch-over betwensuring highly One main hook: 3 rope 16-35W×7- wire rope 16-35W 	
	 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 120m/min which ensures the lifting efficiency take the lead in industry. The use of new slewing system ensures more stable starting and control of the slewing operation and excellent micro-mobility. Hydraulic oil tank capacity: 480L 	Safety system	 Load moment lin mechanical mode accuracy up to ± operation. In case safety protection Hydraulic system hydraulic lock et hydraulic system. 	
€ 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, ensuring 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. With fully security protection system, main and auxiliary winches are equipped with overroll out limiter and height limiters to prevent over-rolling out and over-hoisting of steel rope, including tip-over and limit angle protection. 	E Counterweight	 Main and auxiliar of wire rope. Boom and jib end wire rope. Equipped with I condition of whol automatically. Counterweight is 	
Luffing system	Dynamic luffing system with controllable speed provides more stable luffing operation. Luffing angle: -2°~80°.		, and the second s	
Relescopic system	Four-section boom is applied with basic boom length of 10.65m, fully extended boom length of 33.5m, jib length of 8m and fully extended boom lifting height of 34m respectively. Max. lifting height is 42m including jib.			

It is made of fine grain high-strength steel with U-shaped cross section and with telescopic operation controlled independently by dual-cylinder rope.

Superstructure

achieved with Max. slewing speed of 2.0r/min., providing stable and he system. Single-row ball slewing ring is applied for strong bearing ty, high safety and good micro-mobility.

e electronic control variable plunger motor, enabling convenient low load high speed mode and high load low speed mode, and ent operation and stable lifting and lowering of the load.

g, one auxiliary hook: 90Kg. Wire rope of main winch: left-handed wire USZ, with length of 175m. Wire rope of auxiliary winch: left-handed 1960USZ, with length of 105m.

r: Load moment limiter calculation system based on lifting load established using an analytical mechanics method, with rated lifting through on-line non-load calibration, providing full protection to lifting overload operation, system will automatically issue an alarm to provide nanipulation.

configured with the balance valve, overflow valve, and two-way omponents, thus achieving the stable and reliable operation of the

nches are equipped with over roll-out limiter to prevent over rolling-out

e equipped with height limiters respectively to prevent over-hoisting of

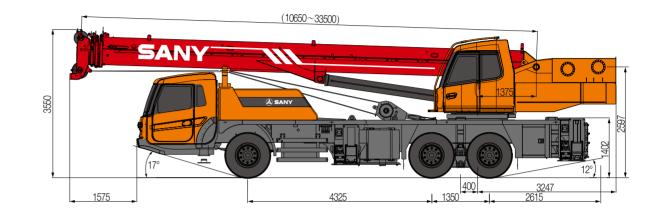
th sensor, angle sensor and press sensor to indicate the working ane in real-time, giving an alarm and cutting off the dangerous action

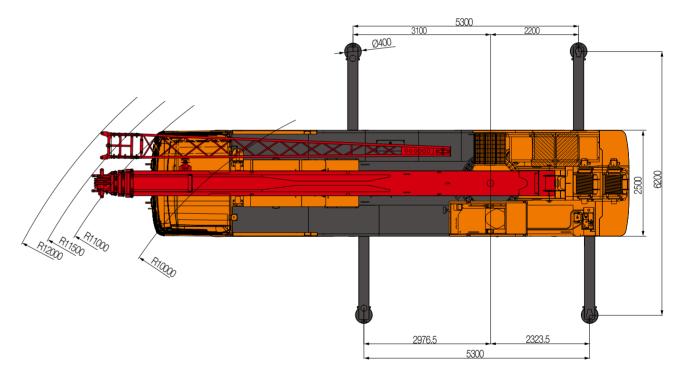
kg, no flexible counterweight.



Chassis

Cab	Cab is made of new steel 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's seat, adjustable steering wheel, large rearview mirror, comfortable driver's 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.
(]] Carrier frame	Designed and manufactured by SANY, anti-torsion box structure is welded by fine-grain high-strength steel plate to provide strong load bearing capacity.
Axles	Axles 2 and 3 are drive axles and axles 1 is steering axles, axle and wheel differentials are installed in axles 2 and 3. The use of welding process for axle housing provides stronger load bearing capacity.
Engine	 Type: Inline six-cylinder, water cooled, supercharged and inter-cooling diesel engine Rated power: 213kW(340ps)/2100(r/min) Environment-protection: Emission complies with EuroIII standard Capacity of fuel tank: 300L
Particular 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, plate flange is used with large transmission torque.
O Brakes system	 Brakes system includes traveling brake and parking brake. All wheels use the air servo brakes and dual-circuit brake system, 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.
I - I Steering system	Hydraulic power mechanical steering systems are applied for axles 1 with unloading valve installed in the steering gear.
I-I Drive/Steer	■ 6 x 4.
Outriggers	Four-point supporting of the H-shaped outriggers ensures easy operation and strong stability, with Max. span up to 5.3m×6.2m.They are made of fine-grain high-strength steel sheet, movable outriggers are full hydraulic transverse telescopic.
O Tyres	11 (number of tyres) – spec.: 11.00-20-18PR; diagonal tires are adopted, which features with large load bearing capacity and durability.
Electrical system	With 2*12V maintenance-free batteries, the crane power can be cut off manually via a mechanical master power switch.

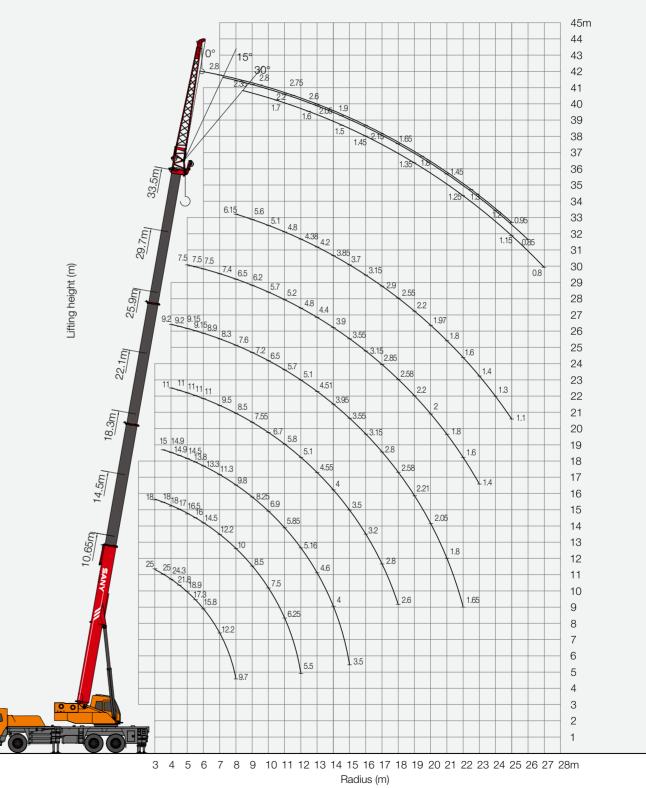






Туре	Item	Parameter			
Capacity	Max. lifting capacity		25 t		
Dimensions	Overall length		12750mm		
	Overall width		2500mm		
	Overall height		3550mm		
		Axle-1,2	4325mm		
	Axle distance	Axle-2,3	1350mm		
Weight	Overall weight	3000kg			
		Axle load-1,2	6500kg		
	Axle load	Axle load-3,4	23500kg		
0	Rated power	,	213kW/ 2100 rpm		
	Rated torque	1050N.m/ (1200 ~ 1400) rpm			
	Max.traveling speed	80km/h			
		Min.turning radius	10m		
	Turning radius	Min.turning radius of boom head	12.65m		
	Wheel formula	5	6 × 4		
Traveling	Min.ground clearance	220mm			
0	Approach angle	17 °			
	Departure angle	12 °			
	Max.gradeability	38%			
	Fuel consumption per 100km	≤ 37 L			
	Temperature range	– 30 °C ~ + 60 °C			
	Min.rated range	3m			
	Tail slewing radius of swingtal	ble	3.37m		
	Boom section				
	Boom shape	U-shaped			
Main Performance		Base boom	962kN·m		
Data	Max.lifting moment	Full-extend boom	544kN·m		
		Full-extend boom+jib	341kN·m		
		Base boom	10.65m		
	Boom length	Full-extend boom	33.5m		
		Full-extend boom+jib	41.5m		
	Outrigger span (Longitudinal×	5.3 × 6.2m			
	Jib offset	0°,15°,30°			
Working speed	Max.single rope lifting speed of main winch (no load)		≧120m/min		
	Max.single rope lifting speed	≧120m/min			
	Full extension/retraction time	70 / 50s			
	Full lifting/descending time of	70 / 55s			
	Slewing speed	0~2r/min			
Aircondition	Aircondition in up cab	Cooling and Heating			
	Aircondition in low cab	Cooling and Heating			

STC250 Working Ranges



SANY Quality Changes the World

STC250 TRUCK CRANE

Quality Changes the World SANY

Courtesy of Crane.Market

11

Prerequisites :

① Boom operating condition(fully extended boom length),min.length is 10.65 and.max.length is 33.5m

- 2 The span of outrigger is 5.3×6.2m 3 360°rotation is applied
- 4 Counterweight is 3.8T

				Main boom				Morting
Working range(m)	10.65	14.5	18.3	22.1	25.9	29.7	33.5	Working range(m)
3	25000	18000						3
3.5	25000	18000	15000					3.5
4	24300	18000	14900	11000	9200			4
4.5	21820	17000	14900	11000	9200			4.5
5	18900	16500	14500	11000	9150	7500		5
5.5	17350	16000	13800	11000	9150	7500		5.5
6	15800	14500	13300	11000	8900	7500		6
7	12200	12200	11300	9500	8300	7400		7
8	9700	10000	9800	8500	7600	6500	6150	8
9		8500	8250	7550	7200	6200	5600	9
10		7500	6900	6700	6500	5700	5100	10
11		6250	5850	5800	5700	5200	4800	11
12		5500	5160	5100	5100	4800	4380	12
13			4600	4550	4510	4400	4200	13
14			4000	4000	3950	3900	3850	14
15			3500	3500	3550	3550	3700	15
16				3200	3150	3150	3150	16
17				2800	2800	2850	2900	17
18				2600	2580	2580	2550	18
19					2210	2200	2200	19
20					2050	2000	1970	20
21					1800	1800	1800	21
22					1650	1600	1600	22
23						1400	1400	23
24							1300	24
25							1100	25
Number of lines	8	8	6	4	4	4	3	Number of lines
Telescoping condition(%)								
I	100%	100%	100%	100%	100%	100%	100%	I
II	0	17%	34%	50%	67%	84%	100%	II
III	0	17%	34%	50%	67%	84%	100%	
IV	0	17%	34%	50%	67%	84%	100%	IV

1. Values listed in the table refer to rated lifting capacity measured at flat and solid gound 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. Rated load values determined by stability shall comply with ISO 4305.

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

5. Rated lifting capacity with pulley at boom tip shall not exceed 3500kg.

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

Unit:Kg

Prerequisites :

① Boom operating condition(fully extended boom length + jib length),max. length is 33.5m+8m

2 The span of outriggers is 5.3×6.2m 3 360°rotation is applied

4 Counterweight is 3.8T

Main boom angle	Main boom+Jib					
	0°	15°	30°			
78°	2800	2350	1700			
75°	2800	2200	1600			
72°	2750	2050	1500			
70°	2600	1900	1450			
65°	2150	1650	1350			
60°	1800	1450	1250			
55°	1300	1200	1150			
50°	950	850	800			



STC250 TRUCK CRANE LOAD CHART

Unit:Ka



TRUCK CRANE

STC200 Maximum Load Capacity: 201



Telescopic Boom: 4 Sections, 10.6-33m



STC250 Maximum Load Capacity: 25t Telescopic Boom: 4 Sections, 10.85-33.5m





STC500 Maximum Load Capacity: 50t Telescopic Boom: 5 Sections, 11.5-43m



STC250H Maximum Load Capacity: 251 Telescopic Boom: 5 Sections, 10.5-39.5m

Maximum Load Capacity: 55t Telescopic Boom: 5 Sections, 11.5-43m

STC550

STC800

BANY



ACCESS OF



STC300TH Maximum Load Capacity: 30t Telescopic Boom: 4 Sections, 10.6-33.5m

STC550EYB Maximum Load Capacity: 55t Telescopic Boom: 5 Sections, 11.5-43m



STC800EYR Maximum Load Capacity: 801 Telescopic Boom: 5 Sections, 11.8-45m



STC600 Maximum Load Capacity: 60t Telescopic Boom: 5 Sections, 11.5-43m



201





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

ALL TERRAIN CRANE



EANY

Maximum Load Capacity: 100t Telescopic Boom: 6 Sections, 13:25-60m





SAC1800 Maximum Load Capacity: 180t Telescopic Boom; 6 Sections, 13.5-62m



SAC3000 Maximum Load Capacity: 220t Telescopic Boom: 6 Sections, 13.5-62m

Maximum Load Capacity: 300t Telescopic Boom: 7 Sections, 15,4-80m



SAC6000 Maximum Load Capacity: 600t

Telescopic Boom: 7 Sections, 17.1-90m

ROUGH-TERRAIN CRANE



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

SRC550 Maximum Load Capacity: 551 Telescopic Boom: 4 Sections, 11.25-34.5m





SBC550H Maximum Load Capacity: 55t Telescopic Boom: 5 Sections, 11.5-42.5m



SRC750 Maximum Load Capacity: 75t Telescopic Boom: 5 Sections, 11.8-45m



- AR ----

125

STC1300C Maximum Load Capacity: 130t Telescopic Boom: 6 Sections, 13.3-60m



14





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. Distributed By: