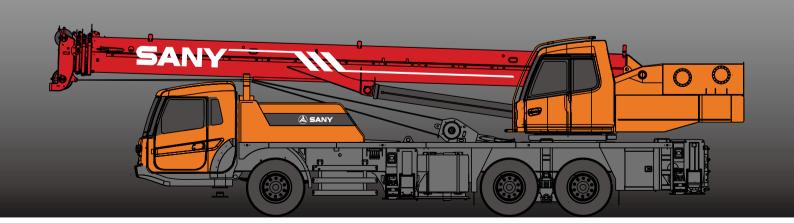
STC250 TRUCK CRANE 25 TONS LIFTING CAPACITY

Quality Changes the World







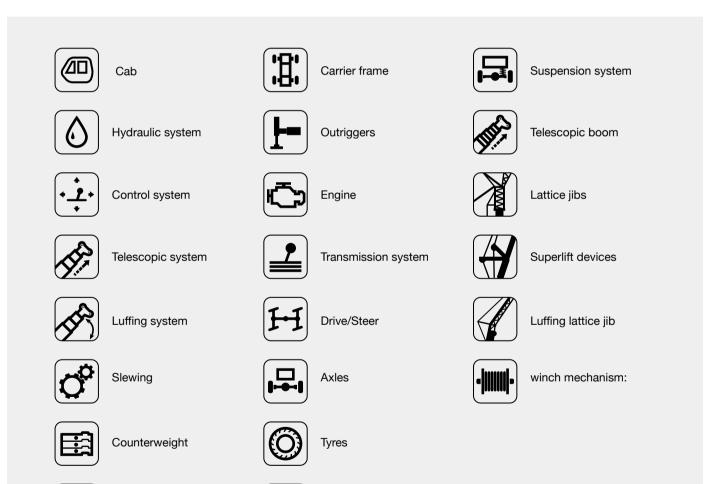




SANY TRUCK CRANE

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Brakes system

Electrical system

Safety system

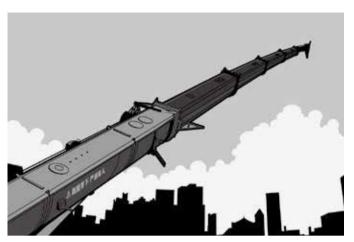
Hoist system



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.



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.



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.



Safe, stable, advanced, and intelligent electric control system

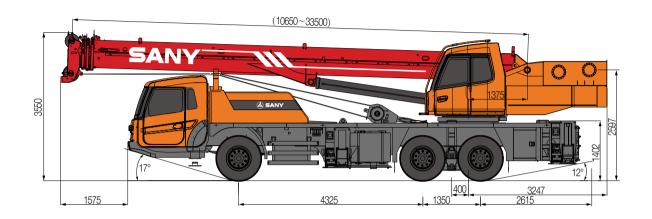
Self-developed controller SYMC specially for engineering machinery is configured. The adoption of CAN-bus full-digital network control technology ensures stable control signal, simple harness and high reliability. Timely feedback of data information can achieve the monitoring of the overall working status 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.

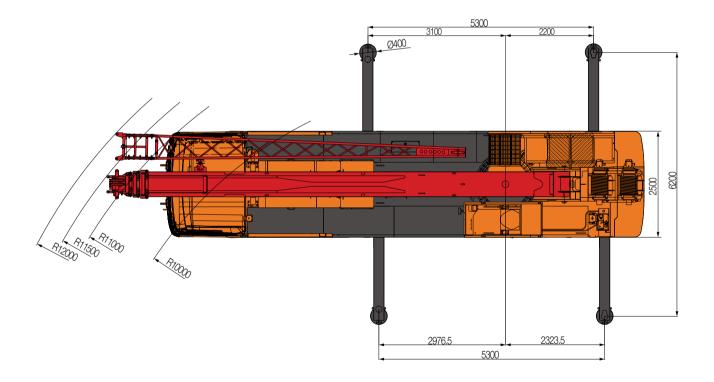
	Superstructure
Cab	■ It is made of safety glass and anti-corrosion steel plate with ergonomic design such as full-coverage soften interior, panoramic sunroof and adjustable seats etc., and humanized design providing more comfortable and relaxing operation experience. The display of load moment limiter integrates main console and operation display system, which clearly show the data of all operating superstructure conditions for lifting operation.
♦ 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 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
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.
Luffing system	Dynamic luffing system with controllable speed provides more stable luffing operation. Luffing angle: -2°~80°.
Telescopic 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
Slewing system	■ 360° rotation can be achieved with Max. slewing speed of 2.0r/min., providing stable and reliable operation of the system. Single-row ball slewing ring is applied for strong bearing capacity, good stability, high safety and good micro-mobility.
Hoisting system	 The winch adopts the electronic control variable plunger motor, enabling convenient 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 16-35Wx7-1960, with length of 175m. Wire rope of auxiliary winch: left-handed wire rope 16-35Wx7-1960, 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 and auxiliary winches are 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. Equipped with length sensor, angle sensor and press sensor to indicate the working condition of whole crane in real-time, giving an alarm and cutting off the dangerous action automatically.
Counterweight	■ Counterweight is 3800kg, 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/2100(r/min) Environment-protection: Emission complies with EuroIII standard Capacity of fuel tank: 300L
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.
1 → Steering system	Hydraulic power mechanical steering systems are applied for axles 1 with unloading valve installed in the steering gear.
• 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.
Tyres	■ 11 (number of tyres) – spec.: 11.00-20; diagonal tires are adopted, which features with large load bearing capacity and durability.
4 Electrical system	■ With 2*12V maintenance-free batteries, the crane power can be cut off manually via a mechanical master power switch.





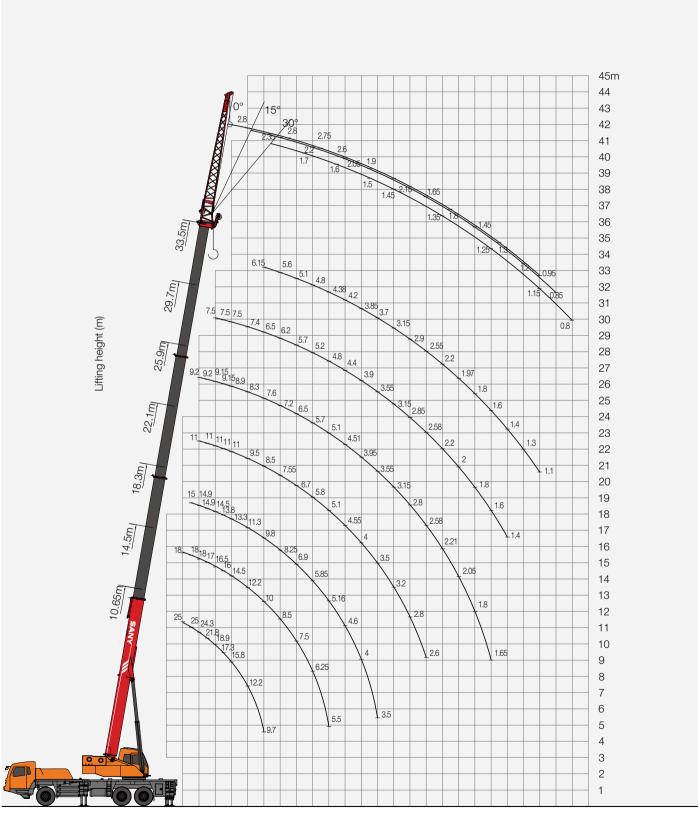


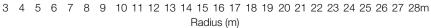
TECHNICAL PARAMETER

Туре	Item	Parameter		
Capacity	Max. lifting capacity	25t		
	Overall length	12750mm		
	Overall width		2500mm	
Dimensions	Overall height	Overall height		
		Axle-1,2	4325mm	
	Axle distance	Axle-2,3	1350mm	
	Overall weight	30000kg		
Weight		Axle load-1	6500kg	
	Axle load	Axle load-2,3	23500kg	
	Rated power		213kW/ 2100 rpm	
Engine	Rated torque		1050N.m/ (1200 ~ 1400) rpm	
	Max.traveling speed		80km/h	
	- . "	Min.turning radius	10m	
	Turning radius	Min.turning radius of boom head	12m	
	Wheel formula		6 × 4	
Traveling	Min.ground clearance		220mm	
	Approach angle		17 °	
	Departure angle	Departure angle		
	Max.gradeability	38%		
	Fuel consumption per 100km	≤ 37 L		
	Temperature range	-30 °C ~ +60 °C		
	Min.rated range	3m		
	Tail slewing radius of swingtable	3.37m		
	Boom section	4		
	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×Tra	Outrigger span (Longitudinal×Transversal)		
	Jib offset	Jib offset		
	Max.single rope lifting speed of m	≥ 120m/min		
Working speed	Max.single rope lifting speed of a	≥ 120m/min		
	Full extension/retraction time of b	70 / 50s		
	Full lifting/descending time of boo	70 / 55s		
	Slewing speed	(0~2)r/min		
Air condition	Superstructure	Cooling and Heating		
23	Chassis	Cooling and Heating		



STC250 Working Ranges





Unit:Kg

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)		
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(%)								
1	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%	III
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		

WHEEL CRANE FAMILY MAP

TRUCK CRANE



STC200 Movinum Load Cepedry 207 Telescope: Boom: 4 Sections, 10:6-33m



STC250 Maximum Load Capacity, 25r Telescook Boom, 4 Sections, 10:65-33.5ci



STC250H Modman Load Capacity, 257 Telescopic Boom, 5 Sections, 10,5-39.5m



STC300S Modman Load Capacity 30t Telescopic Books & Sections, 10.6-40.5m



STC300TH Mastrum Lead Capacity 30t Telescopic Boom: 4 Sections, 10.6-33.5m



STC300H Meximum Load Capacity: 30t. Teamcopic (North & Sentons, 10.5-38/5m)



STC500 Maximum Load Capacity: 50t Telescopic Bloom: 5 Sections, 11,5-43m



STC550 Maximum Loed Capacity: 55(1/8excopic Boom, 5 Sections, 11.5 43m)



STC600S Maximum Load Capacity: 50t Telefocois: Boom in Sections; 11.3-43.2m.



STC750 Maximum Losd Capacity, 75t Talescopic floom: 5 Sections, 11.9-45m



STC800S Mosmum Load Capacity 80t Telescool: Boom: 5 Sections, 12 2-47m



STC1000 Mestrum Load Capacity 100t Telescopic Boons 5 Sections, 13:5-52m



STC1000C: Modernum Lond Capacity, 100t Telescopic Boom: 6 Sections, 13 25-60rb



STC1000S Mootham Least Capacity, 100t Telescopic Boorn 5 Sections, 12:26-58m



STC1200S Madmum Load Capacity 120t Telescopic Boom: 7 Sections, 12 6-63.5m



STC1300C Maximum Load Capacity: 130(Relaccond Boom, 6 Sections, 13.3-60m)



STC1600 Maximum Load Capacity: 160t feleocopic Boom 6 Sections, 13.4-62m



STC2200 Mayorum Loud Capacity: 220t Telepoppic Ecorn: 6 Socilons, 14-55-Gen

M ALL TERRAIN CRANE



SAC1806 Materium Loud Capacity: 1806 Jelescopic Boom, fi Sections, 13.5-62m



SAC2200 Mornturn Load Capacity: 2707 Telescopic Boom 6 Sections, 13.5-62m



SAC2600' Misemum Loss Capacity: 2501 Telescape Boom 6 Sections, 15-60-73m



SAC3000 Missimus Load Capacity: 300t Telescopic Boom. / Sections, 15-4-80m



SAC3500 Madmum Load Capacity: 3501 Releacable Bhorn & Sections, 15.2 70m



SAC6000 Moornum Lond Capacity 6333 Interceptic Boom, 7 Sections, 17,1-90m

ROUGH-TERRAIN CRANE



SAC256 Meanum Load Capadty 25f Telescopic Bican: 4 Sections, 9 9-31 5m



SRC350 Missinum Lond Copnoty, 354 Telescopic Boom: 4 Sections, 10-31.5m



SRC560 Maximum Load Capacity 50f Talescopic Boom: 4 Sections, 11:25-34.5m



SRC660H Maximum Load Capacity, Silt Telescopic, Boom: 5 Sections, 11.5-40m



SRC750 Mixemum Load Capacity, 75t Telescopic Boom, 5 Sections, 11,9-45m



SHC1200 Maximum Land Capacity: 120t Telescopic Boom: 5 Sections: 13-49m



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SANY AUTOMOBILE HOISTING MACHINERY

Address: SANY Industrial Park, Jinzhou Development Zone, Changsha, Hunan, China.

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ExIcusive Agent in UAE:

UNITED Mechanical Equipment Trad. Est.

Tel. : +971 2 551 6661
Fax : +971 2 551 6777
E-mail : info@united-ume.ae
Wob. : +971 50 668 8285
Web : www.united-ume.ae

P.O. Box: 36639

Abu Dhabi - Musaffah M -11

United Arab Emirates

www.united-ume.ae