



STC250T5

SANY TRUCK CRANE 25T LIFTING CAPACITY

> Max. Lifting Capacity: 25 t Max. Boom Length: 41 m Max. Lifting Moment: 1063 kN·m

SANY

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L/R hand drive both available V1.1

SANY TRUCK CRANE STC250T5 / 25T LIFTING CAPACITY

Strong boom

- 41m telescopic boom in five sections lifts to a new height of 41.5m, and further to 49m with jib mounted.
- Larger cross-section boom, achieving a load moment of 1063kN·m.
- Boom section overlap increased, resulting in higher torsion resistance and bending resistance.



Powerful chassis

DF Cummins ISLe290 30 engine, FAST 9-speed synchronizing gearbox, rubber suspension, 12R22.5 wire tire. GANY

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- Frame torsion resistance verified by 20k times of reliability and safety cycling test.
- Outrigger span expanded to 5.18m×6.4m, providing a stable base.
- Low deck chassis enhances travelling stability.





SANY TRUCK CRANE STC250T5 / 25T LIFTING CAPACITY

Precise hydraulics

- Better maneuverability : smart flow-distribution hydraulic system secures combined action efficiency and stability.
- Precise motion: single rope can move stably at a min. speed of 1.2m/min and slewing can be slower to 0.1°/s, realizing micro-motion of millimeter level.
- Dynamically adjustable luffing down: Passive luffing down with speed limit provides safe and stable operation, while active luffing down at big boom angle optimizes efficiency.
- Power control: Engine speed reduced by 12% in operation, less fuel needed, less noise generated.



Quality Changes the World



Bivariate piston pump



Luffing balance valve



Slewing proportional valve



Winch motor



Winch balance valve





Length & angle indicator



Smart I/O power distribution

3 .1



Height limit switch



Danfoss Pressure sensor



Winch protector



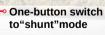
Smart control

- BUS control system: instant transfer of information, as fast as 20ms.
- Fault diagnose: BCM controller for fault detection and easy maintenance.
- IO power distribution: Independent battery set controlling power distribution for the whole vehicle.
- 7"color display & smart panel: silica gel plate design, user friendly.
- Safety guarantee: SANY, Load Moment Indicator monitoring load and wire rope conditions. Length measuring of the 2nd boom for safe and better lifting solutions.

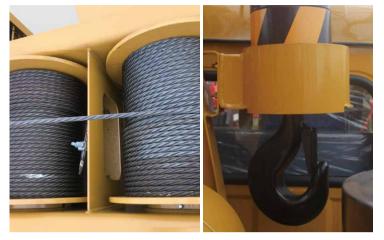
Confluence-shunt control valve

- Shunt: one pump for telescoping and hoisting, the other for luffing, to avoid interference or fluctuations of different actions, thus providing precise lifting solutions.
- Confluence: two pumps propelling one action for higher efficiency.





Technical Features



5 ton hook block

Winch for easy loading

- Max. single line pull up to 5 ton. Freight within 5t can be loaded with a 5t auxiliary hook (standard configuration).
- Auxiliary hook block: wide opening with latch, safe and convenient.



Walking deck

- Abundant distance between deck and slewing platform to place outrigger sleeper.
- Ample space on deck tail to place sleepers.



Power and travel

■ 300L fuel reservoir, 900km possible after every refuel.

Heat radiator

 Oil radiator mounted on the right of slewing platform, clear airflow and radiating.

Technical Features



Two cabs

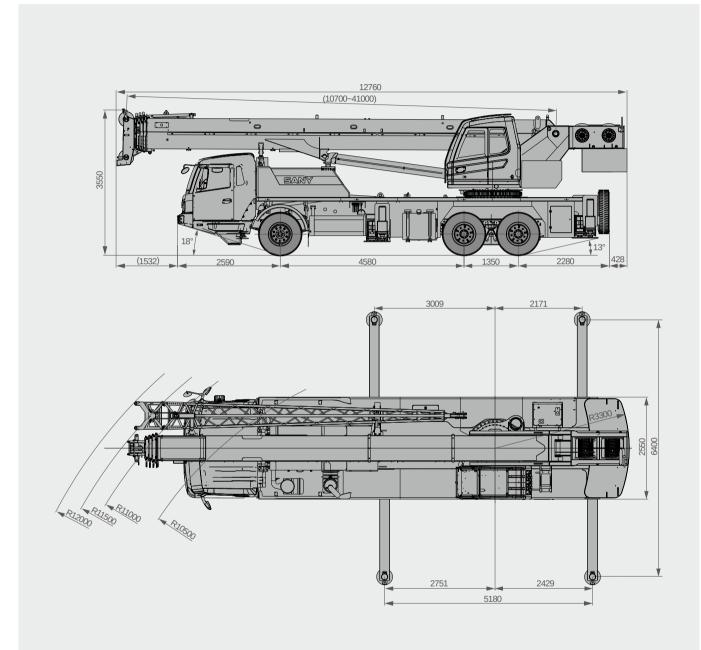
- Ergonomic design gives you comfortable drive and operation.Wide view and multiple indicators for safe performance.



Counterweight

Fixed 5.6t counterweight, high density with smaller size.

Overall Dimensions



Technical Specification

CATEGORY	ITEM UNIT VALUE						
CAPACITY	Max. lifting capacity		t	25			
WEIGHT	Gross weight		kg	32700			
	Engine model		-	ISLe290 30			
POWER	Max. engine power		kW/rpm	213/2100			
	Max. engine torque		N·m/rpm	1050/(1200~1400)			
	Overall length		mm	12760			
	Overall width		mm	2550			
DIMENSIONS	Overall height		mm	3550			
		Axle 1&2	mm	4580			
	Axle base	Axle 2&3	mm	1350			
	Max.travel speed	·	km/h	90			
	Stooring radius	Min.steering radius	m	10.5			
	Steering radius	Min.steering radius of boom tip	m	12.5			
TRAVEL	Min.ground clearance	<u>`</u>	mm	250			
IRAVEL	Approach angle		o	18			
	Departure angle		0	13			
	Max.gradeability		%	42			
	Fuel consumption per 100km		L	35			
	Working temperature range		°C	-20 ~ +45			
	Min.rated lifting radius		m	3			
	Tail slewing radius		m	3.3			
	Boom sections (Qty.)		-	5			
	Boom shape		-	U			
		Basic boom	kN∙m	1063			
MAIN PERFORMANCE	Max.lifting moment	Full-extend boom	kN∙m	624			
		Full-extend boom+jib	kN∙m	387			
	-	Basic boom	m	10.7			
	Boom length	Full-extend boom	m	41			
		Full-extend boom+jib	m	49			
	Outrigger span (Longitudinal>	×Transverse)	m	5.18×6.4			
	Jib offset		o	0,15,30			
	Max.single rope lifting speed	of main winch (empty load)	m/min	135			
	Max.single rope lifting speed	of auxiliary winch (empty load)	m/min	135			
OPERATION SPEED	Full extension/retraction time	of boom	S	80/90			
	Full luffing up/down time of bo	oom	S	25/40			
	Slewing speed		r/min	2.5			
AIRCONDITIONER	In operator's cab		-	Heating & cooling (LHD) Cooling (RHD)			
	In driver's cab		-	Heating & Cooling			

Technical Parameters

+	Axle Load

Axle	1	2	3	Gross weight
Load per axle /kg	7100	12800	12800	32700

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8	Hook

Load/t	Number of sheaves	Rope rate	Hook weight /kg		
25	4	8	320		
5	0	0	85		



Item	1	Rope diameter/length	Max. single line pull				
Main winch		16mm/185m	5t				
Auxiliary winch 16mm/105m		16mm/105m	5t				
Slewii	ng	2.5r	/min				
Luffing		255	25s/40s				
Telesco	Telescoping		80s/90s				
Outrigger	Retract	20	\$				
jack	Extend	20	20s				
Outrigger	Outrigger Retract		15s				
beam Extend		30s					

Crane Introduction

Carrier

Driver's cab

 Designed by Sany, driver's cab is equipped with seat with headrest, anti-fog fan, air conditioner, stereo radio, and control instruments.

谓: Frame

 Designed and manufactured by Sany, torsion-resistant box structure is welded by fine-grain high-strength steel plate to provide strong bearing capacity.

🛏 Axle

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 Axle 1 controls steering, and axle 2&3 controls drive with differential lick.

Outrigger

- Outrigger beam extension is powered by hydraulics.

Engine

- Inline six-cylinder, water cooled, supercharged and inter-cooling diesel engine (Euro ${\rm I\!I\!I}$) .
- Fuel reservoir capacity: 300L.

Transmission

 9-speed manual gearbox and big torque transmission shaft delivers abundant power for grading and travelling.

Suspension system

- Front suspension is realized by plate spring, and rear rubber.

Tire

 Eleven tires sized 12R22.5, featuring large bearing capacity and durability.

O Brakes

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 Air-servo brakes are used for all wheels with dual-circuit braking system. Engine is equipped with an exhaust brake.

Electrical system

 With 2×12V maintenance-free batteries, the crane power can be cut off manually via a switch.

Operator's cab

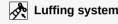
- Egronomic design ensures operation safety, convenience and comfort.

Hydraulic system

 Key hydraulic components are of proven quality and stability. Main valve functions flow compensation and load sensing. Big-flow winch motor features high efficiency.

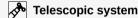


 CAN-Bus instrument provides accurate data and functions fault detection. Load moment indicator ensures operation safety.



Superstructure

Luffing angle: -2°~80°.



Five section boom in full extension realizes a max. lifting height of 41.5m, and further 49.5m when 8m jib is mounted. U-shape structure is welded using high-strength structural steel. Telescoping is realized via double cylinder and rope arranger.

Slewing system

- 360 degree slewing with a max. speed of 2.5r/min.

🚸 Hoist

- Winch piston motor sees smooth running of wire rope.

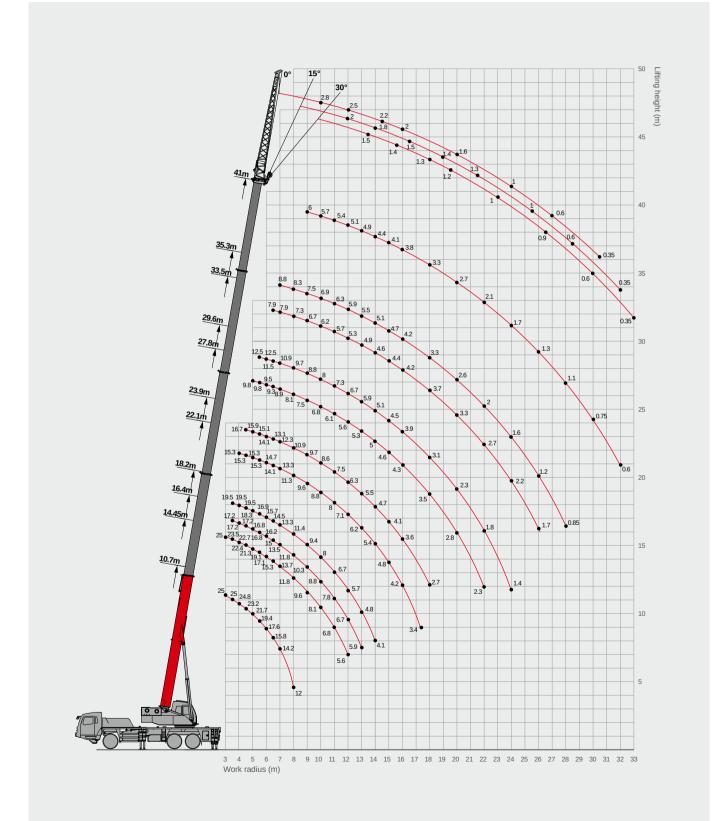


- An all-round safety system covers load moment, hydraulics, winch, and wire rope. Motion with risks are cut off automatically.

Counterweight

- Counterweight is a fixed unit weighing 5600kg.

Operating Range



Load Chart-Telescopic Boom

											360°	📥 EN
Unit: kg												5.6t
Radius (m)	10.7	14.45	16.4	18.2	22.1	23.9	27.8	29.6	33.5	35.3	41	Radius (m)
3	25000	25000										3
3.5	25000	23500	17200	19500								3.5
4	24800	22700	17200	19500	15300							4
4.5	23200	22400	17200	19500	15300	16700						4.5
5	21700	21300	16800	18300	15300	15900	9800					5
5.5	19400	19100	16800	16900	15300	15100	9800	12500				5.5
6	17600	17100	16200	15700	14700	14100	9500	12500				6
6.5	15800	15300	15000	14500	14100	13100	9300	11500	7900			6.5
7	14200	13700	13500	13300	13300	12300	8900	10900	7900	8800		7
8	12000	11800	11800	11400	11300	10900	8100	9700	7300	8300		8
9		9600	10300	9400	9600	9700	7500	8800	6700	7500	6000	9
10		8100	8800	8000	8800	8600	6800	8000	6200	6900	5700	10
11		6800	7800	6700	8000	7500	6100	7300	5700	6300	5400	11
12		5600	6700	5700	7100	6300	5600	6700	5300	5900	5100	12
13			5900	4800	6200	5500	5300	5900	4900	5500	4900	13
14				4100	5400	4700	5000	5100	4600	5100	4400	14
15					4800	4100	4600	4500	4400	4700	4100	15
16					4200	3600	4300	3900	4200	4200	3800	16
18					3400	2700	3500	3100	3700	3300	3300	18
20							2800	2300	3300	2600	2700	20
22							2300	1800	2700	2000	2100	22
24								1400	2200	1600	1700	24
26									1700	1200	1300	26
28									1350	850	1100	28
30											750	30
32											600	32
					Teleso	coping stat	tus(%)					
Telescoping mode	1,11	I	I	II	I	Ш	I	Ш	I	II	I,II	Telescoping mode
2nd boom	0	50	0	100	0	100	0	100	0	100	100	2nd boom
3rd boom	0	0	25	0	50	25	75	50	100	75	100	3rd boom
4th boom	0	0	25	0	50	25	75	50	100	75	100	4th boom
5th boom	0	0	25	0	50	25	75	50	100	75	100	5th boom
Rope rate	8	8	7	8	6	6	4	5	3	3	3	Rope rate

Load Chart-Jib



Telescopic boom + jib length (41m+8m)							
Boom angle		Boom angle					
boom angle	0°	15°	30°	Doom drigle			
78°	2800	2000	1500	78°			
75°	2500	1800	1400	75°			
72°	2200	1500	1300	72°			
70°	2000	1400	1200	70°			
65°	1600	1300	1000	65°			
60°	1000	1000	900	60°			
55°	600	600	600	55°			
50°	350	350	350	50°			

Remark:

Unit: kg

1. Value listed are the max. capacity when the crane is in a level condition on solid ground or surface;

2. When the fifth outrigger is landed in position, value listed are applicable for 360 degree operation;

3. Value above are calculated with hooks and lifting slings considered (320kg main hook block, 85kg aux. hook block);

4. Load value is given according to the larger radius or boom length value when the actual radius or boom length falls between two numbers above;

5.Rated lifting performance on boom point sheave equals 5t;

6.Boom load capacity shall be 450kg less than value given when jib is mounted.



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Reminder:

For safe and reliable operation of the diesel engines, please fill Grade IV machines with Grade IV diesel and urea solution conforming to related national standards. Please refer to the operating instructions and related standards for details.

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