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SANY
SANY INDIA NETWORK

PRODUCT SPECIFICATIONS

SANY

STC250C

SANY TRUCK CRANE
25T LIFTING CAPACITY

CEV STAGE-IV



SANY HEAVY INDUSTRY INDIA PVT. LTD.

HEAD OFFICE

Address : Plot No. E-4, Chakan Industrial Area Phase-III,
Village Kuruli, Taluka Khed, District Pune - 410501,
Maharashtra, INDIA.

E-mail : customercare@sany.in

Website : www.sany.in

Toll Free No.: 1800-209-3337



Material & specification are subject to change without prior notice in accordance with our continuous technical innovations. Featured machines in photos may include additional equipment.

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- 25 t
- 33.5 m
- 857.5 kN·m

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V1.0



Multi-outlet HVAC air flow
CAN-BUS instrument, 5" color LCD and press buttons arranged clearly, easy to operate
Precise PDC parking distance control with alarming sirens



Full vision extra large glass and skylight
Indoor space extended for more comfortable working environment
Standard 6" color screen with LMI, load data in real-time display
Integrated electrical system and throttle control, eco mode available
Mechanical control lever, lower maintenance cost



4 section U shape telescopic boom, large cross section, high rigidity
PE slider used, smooth telescoping motions without shock



Chamfered counterweight design for smaller slewing radius



Outrigger cross section optimized for carrier stability.

SANY TRUCK CRANE STC250C / 25T LIFTING CAPACITY



Powered by robust diesel from WEICHAH, complying with CEV Stage IV emission standard



Rear axle rubber suspension, better shock absorption, better driving experience



After-valve load-sensing hydraulics, lower fuel cost, smoother control experience



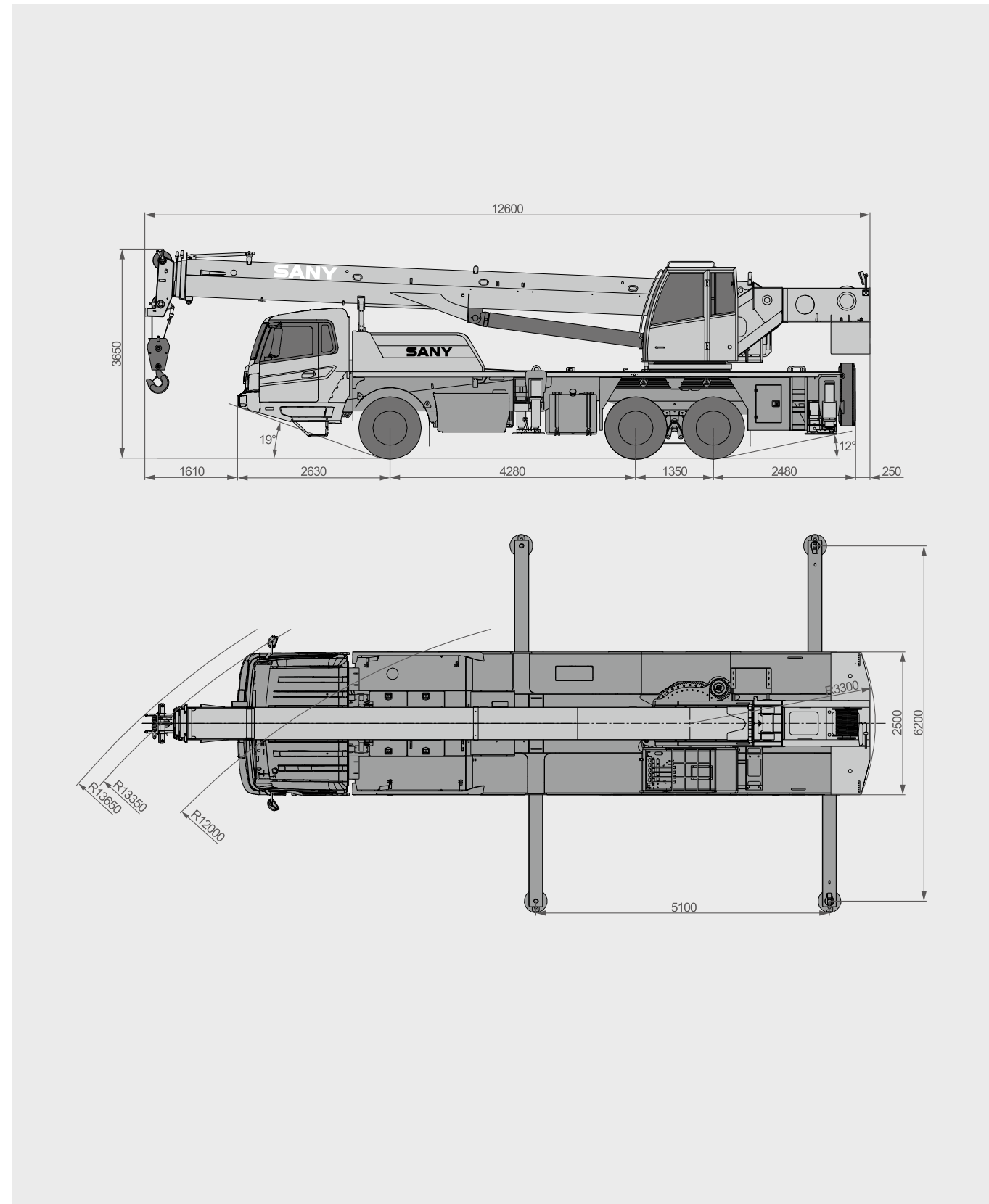
Large capacity fuel reservoir, endurance mileage ≥900km



Standard cross ply radial tires sized 11.00 X 20, 16 PR high endurance and reliability



Overall Dimensions



Technical Specification

CATEGORY	ITEM	UNIT	VALUE	
CAPACITY	Max. lifting capacity	t	25	
WEIGHT	Gross weight	kg	26300	
POWER	Engine model	-	WEICHAI WP7.270E61(CEV Stage IV)	
	Max. engine power	kW/rpm	199/2100	
	Max. engine torque	N·m/rpm	1200/(1200~1600)	
DIMENSIONS	Overall length	mm	12600	
	Overall width	mm	2500	
	Overall height	mm	3650	
TRAVEL	Max.travel speed	km/h	48	
	Steering radius	Min.steering radius	m	12
		Min.steering radius of boom tip	m	13.65
	Wheel formula	-	6× 4	
	Min.ground clearance	mm	250	
	Approach angle	°	≥19	
	Departure angle	°	≥12	
	Max.gradeability	%	32	
	Fuel consumption per 100km	L	≤30	
	Working temperature range	°C	-20~45	
MAIN PERFORMANCE	Min.rated lifting radius	m	3	
	Tail slewing radius	m	3.3	
	Boom sections (Qty.)	-	4	
	Boom shape	-	U shape	
	Max.lifting moment	Basic boom	kN·m	857.5
		Full-extension boom	kN·m	510
		Max.combination of boom + jib	kN·m	356.6
	Boom length	Basic boom	m	10.55
		Full-extension boom	m	33.5
		Max.combination of boom + jib	m	41.5
	Max.lifting height	Basic boom	m	11
		Full-extension boom	m	34
Max.combination of boom + jib		m	42	
Outrigger span (Longitudinal×Transverse)	m	5.1×6.2		
Jib offset	°	0, 15, 30		
AIRCONDITIONER	In operator's cab	-	Cooling	
	In driver's cab	-	Cooling & heating	

Technical Parameters



Axle Load

Axle	1	2	3	Gross weight
Axle load /t	6	10	10	26
Remark	-			



Hook

Load/t	Number of sheaves	Rope rate	Hook weight /kg	Remark
25	4	8	250	Standard
3	1	1	85	Optional



Operations

Item	Max.single rope lifting speed (empty load)	Rope diameter/length	Max. single line pull
Main winch	110m/min	14mm/163m	3.5t
Auxiliary winch	110m/min	14mm/95m	3.5t
Slewing speed	0~2r/min		
Full luffing up/down time of boom	65s/60s		
Full extension/retraction time of boom	65s/55s		
Outrigger jack	Retraction	20s	
	Extension	35s	
Outrigger beam	Retraction	20s	
	Extension	35s	

Crane Introduction

Carrier



Driver's cab

- Right hand drive. Integral steel structure cab in ergonomic design, featuring vibration and external noise isolation.
- The cab is furnished in concept of convenience, safety, and comfort with large rearview mirror, seats with headrest, demister, HVAC, stereo radio, full set of controls and panels.



Carrier frame

- Designed and manufactured by Sany, the torsion resistant box-type structure is welded by fine grain high-strength steel, featuring increased bearing capacity.



Engine

- Model: Inline six-cylinder diesel engine with watercooler and inter cooler.
- Emission standard: CEV StageIV
- Fuel reservoir capacity: 300L.



Transmission

- 8-speed manual transmission with synchronizer, large speed ratio range, adaptable to slope climbing and high-speed traveling.



Transmission shaft

- Optimized layout, higher torque output via contrate gear connecting transmission shaft cardan.



Axle

- Axle 1 is steered; axles 2, 3 are drive axles with built-in differential lock, realizing tougher ability to rough-terrain travelling. Two-stage reducer gear and more compact axle bags contribute to better trafficability. Press welding process strengthens the axle cover, increasing bearing capacity.



Suspension system

- Front suspension is realized by independent leaf spring, and rear rubber. The system's strength is verified by 100,000 cycling fatigue tests, and ride comfort is ensured.



Steering

- Mechanical steering with hydro booster. Turn your steering wheel more easily.



Tires

- Eleven tires sized 11.00 X 20, strong bearing capacity and durability.



Wheel formula

- 6× 4× 2



Brake

- Four brake systems including service brake, parking brake, emergency brake, and assisting brake.

Crane Introduction

superstructure

Operator's cab

- The cab is designed in ergonomic concept with deep consideration of convenience, safety, and comfort. Corrosion resistant bodywork with softened interior trim, the skylight, and tiltable seat make working on the crane more comfortable.

Boom & telescoping system

- Telescoping is realized by single cylinder with rope arranger.

Hoist

- Hoist smoothness is guaranteed by the perfect combo of winch balance valve and anti-slip tech. Hoist speed is controlled via pump and motor, more energy efficient.

Luffing system

- Passive luffing down, reducing energy cost. One luffing cylinder with hinge positioned to the front, making motion easier and boom stress optimized. Luffing angle: $-2^{\circ} \sim 80^{\circ}$.

Hydraulics

- Main oil pump, motor, valve and other key hydraulic components are of high quality and high durability, ensuring hydraulics to function smoothly and reliably.

Control system

- Data display system: multiple sensors provide data feedback, realizing real-time monitoring. It helps you to monitor working status of the whole machine.

Outrigger

- H-type layout, four point support, easy to operate. Welded by fine grain high tensile steel plate, optimized stability. Outrigger beam hydraulically telescoping.

Counterweight

- Fixed counterweight 3t, no movable unit.

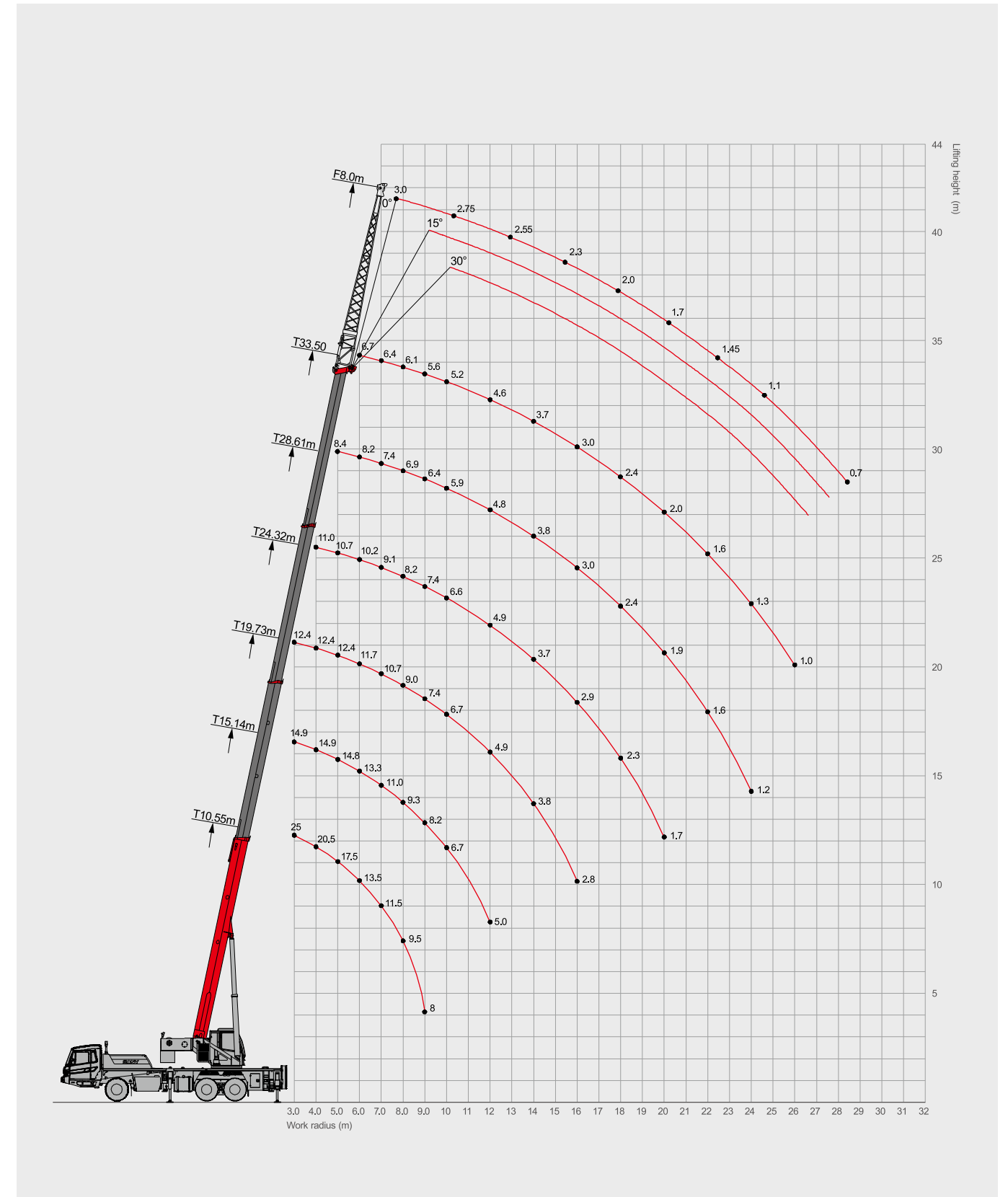
Safety equipment

- Self developed LMI is set through analytical mechanics approach. Load accuracy is maintained in a range of $\pm 3\%$ via online unloaded calibration.
- Hydraulic balance valve, relief valve, two-way pilot-controlled valve are equipped for hydraulic system reliability.
- Three-circle protector prevents winch wire rope from over-hoist down.
- Height limit switch at boom and jib head prevents wire rope from over-hoist up.
- Boom length & angle sensor and stress sensor help monitor crane working status. Motion of risks are cut off automatically with buzzer warning simultaneously.

Optional equipment at extra fees

- 8m fixed jib.
- Auxiliary winch.
- Auxiliary hook.
- Other equipment available upon request.

Operating Range



Load Chart-Telescopic Boom



Unit: kg

Radius (m)	10.55	15.14	19.73	24.32	28.91	33.5	Radius (m)
3	25000	14900	12400	□	□	□	3
3.5	23000	14900	12400	□	□	□	3.5
4	20500	14900	12400	11000	□	□	4
4.5	19000	14900	12400	11000	□	□	4.5
5	17500	14800	12400	10700	8400	□	5
6	13500	13300	11700	10200	8200	6700	6
7	11500	11000	10700	9100	7400	6400	7
8	9500	9300	9000	8200	6900	6100	8
9	8000	8200	7400	7400	6400	5600	9
10	□	6700	6700	6600	5900	5200	10
12	□	5000	4900	4900	4800	4600	12
14	□	□	3800	3700	3800	3700	14
16	□	□	2800	2900	3000	3000	16
18	□	□	□	2300	2400	2400	18
20	□	□	□	1700	1900	2000	20
22	□	□	□	□	1600	1600	22
24	□	□	□	□	1200	1300	24
26	□	□	□	□	□	1000	26
Cylinder telescoping status	0%	20%	40%	60%	80%	100%	Cylinder telescoping status
Rope rate	8	6	4	4	3	3	Rope rate

Remark: the ratings are given for load over rear and side.

Load Chart-Jib Optional



Unit: kg

Boom angle(°)	0°	15°	30°	Boom angle(°)
80	3000	2000	1550	80
78	2850	2000	1550	78
76	2750	1850	1450	76
74	2650	1800	1400	74
72	2550	1750	1350	72
70	2400	1600	1300	70
68	2300	1550	1250	68
66	2150	1450	1200	66
64	2000	1350	1150	64
62	1850	1250	1100	62
60	1700	1150	1050	60
58	1600	1050	1000	58
56	1450	1000	950	56
54	1250	950	900	54
52	1100	900	850	52
50	980	850	700	50
45	700	550	500	45

Remark :

- Value listed are the max. capacity when the crane is in a level condition on solid ground or surface;
- When the fifth outrigger is landed in position, value listed are applicable for 360 degree operation;
- Value above are calculated with hooks and lifting slings considered (250kg main hook block, 85kg aux. hook block);
- 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;
- Rated lifting performance on boom point sheave equals 3.5t;
- Boom load capacity shall be 450kg less than value given when jib is mounted.
- Rated lifting capacities in the stability area comply with ISO4305.