



41m



8m



49.5m



1142kN·m



6.8t



STC250C5-8 (25款)

三一汽车起重机 SANY TRUCK CRANE

www.sanygroup.com

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QUALITY CHANGES THE WORLD

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Truck Crane

三一汽车起重机



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01 整机优势

Introduce

Superior performance

The new generation of Elliptical Cross-Section 2.0

- New-generation elliptical section 2.0 with 3% reduction in deflection sidebend and 6% lead in high-frequency conditions.

Leading Handling i-EHC2.0 System

- The second-generation electro-hydraulic compound system, conventional, high-efficiency, micro-movement three control modes, users choose at will, lifting the full coverage of the scene.

environmental adaptation

- The first environmental adaptive mode, which can intelligently recognize the engine operating environment, and the hydraulic system intelligently matches the engine power.

Intelligent Comfort i-Crane1.0 System

- With 10.1-inch touch screen, high-precision force limiter, remaining amplitude prompt, working condition recommendation and remote diagnosis, the operation is more comfortable, more intelligent and safer.

Energy Saving and Consumption Reduction i-ECO2.0 System

- Variable power pump, high-efficiency energy-saving module, non-sensitive regeneration, ultra-long operation without stopping, operating fuel consumption ↓ 20%, annual savings of 14,000.



STC250C5-8

SANY TRUCK CRANE



41m



8m



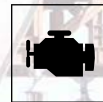
90km/h



6.8t



6.4m x 5.35m



221kW/2200rpm(YUCHAI)



Oval arm



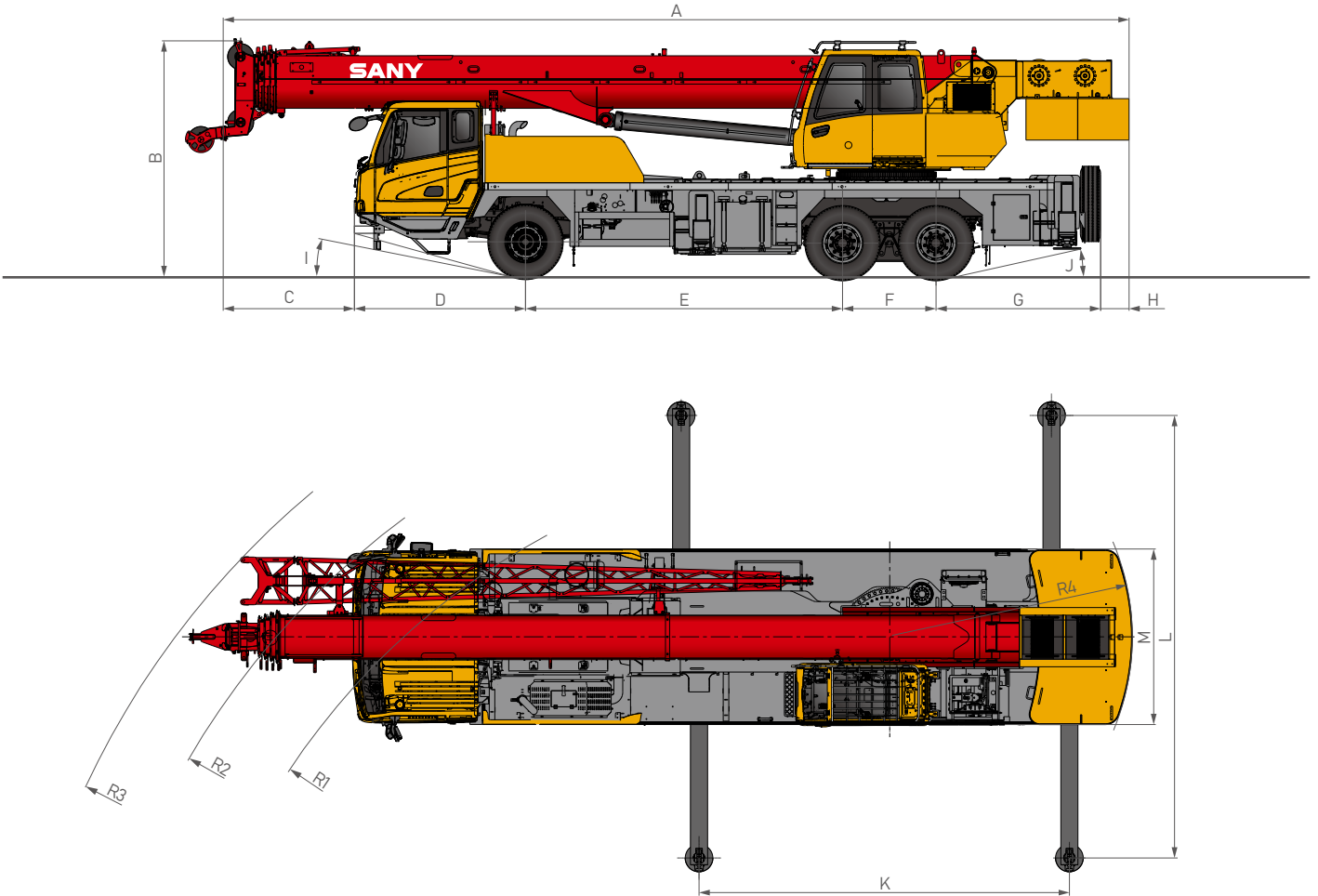
Electro-hydraulic compound system



Sensorless regeneration technology

02 整车尺寸

Overall Dimensions



*Images for reference only


unit:mm


model	A	B	C	D	E	F	G	H	I	J
STC250C5-8	13020	3500	1820	2470	4580	1350	2450	350	11°	12°
model	K	L	M	R1	R2	R3	R4			
STC250C5-8	5350	6400	2550	10500	11500	12500	3504			

Type	Project		unit	parameters
Dimensional parameters	Total length		mm	13020
	Total Width		mm	2550
	Total Height		mm	3500
Weight parameters	Total machine weight		kg	31700
	Load (weight)	One-axis load	kg	6600
		Two and three-axis load	kg	25100











typology	event	unit	parameter	
Power parameters	Engine Model	-	YUCHAI YCS07L300-66	
	Maximum engine power	kW/rpm	221/2200	
	Maximum engine output torque	N-m/rpm	1190/1100~1700	
Driving parameters	Maximum speed	km/h	90	
	Minimum Turning Radius	m	10.5	
	approach angle	°	≥11	
	departure angle	°	≥12	
	Maximum Climbing Degree	%	44	
	100km fuel consumption	L	30	
Main Performance Parameters	Maximum rated gross lifting capacity	t	25	
	Turning radius of rotary table tail	m	≤3.5	
	Maximum lifting moment	basic arm	kN-m	1142
		Longest main lifting arm	kN-m	727
		Longest Main Lifting Arm + Secondary Lifting Arm	kN-m	390
	Outrigger span (transverse x longitudinal)	m	6.4x5.35	
	Lifting arm length	basic arm	m	10.7
		Longest main lifting arm	m	41
		Longest Main Lifting Arm + Secondary Lifting Arm	m	49
Secondary lifting arm mounting angle	°	0, 15, 30		

 Axle load/t	1	2	3	total weight
		6.6	12.55	12.55












 Hook and multiplier	Rated load /t	Number of pulleys	magnification	Hook weight/kg
	25	4	8	250
3	0	1	52	

 working speed	sports event	parameters	Rope diameter / length	Maximum single rope pull
	Main winch	0~125m/min	Φ 14mm/180m	3.5t
	sub winch	0~125m/min	Φ 14mm/105m	3.5t
	Slewing		0~2.6r/min	
	Lifting/lowering		40s/60s	
	Extend/retract arm		80s/105s	
	Vertical leg extension/retraction		25s/20s	
Horizontal leg extension/retraction		25s/20s		

上车/ SupersTrucTure

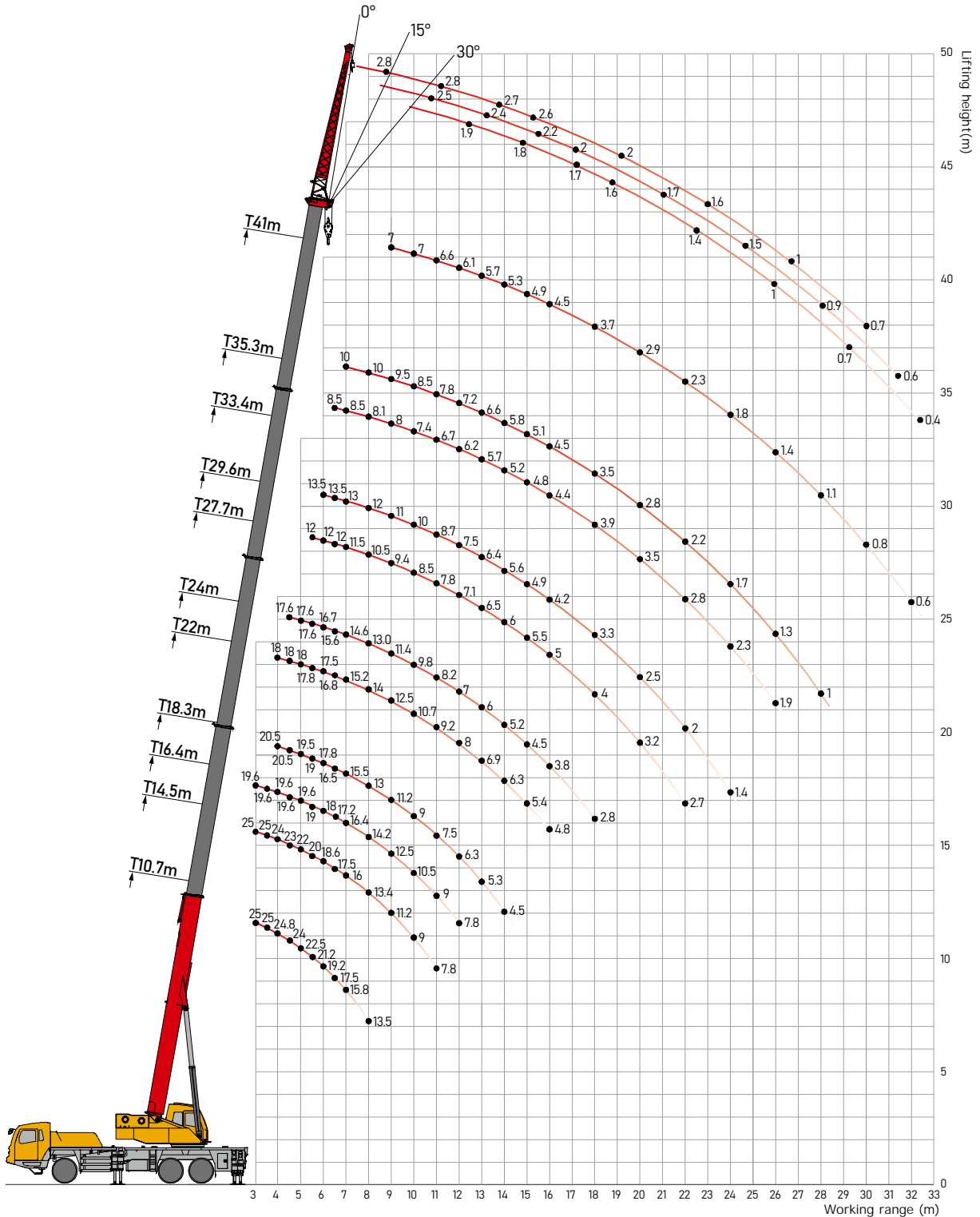
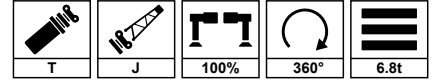
	swivel table	Sany homemade structural parts, made of high-strength steel, with high torsional stiffness and long fatigue life.
	control room	Sany independently developed a new generation of maneuvering room, maximizing the use of internal space, equipped with full-coverage soft interior, panoramic sunroof and adjustable seats and other humanized design. Equipped with 10.1-inch display screen and upgraded interaction.
	hydraulic system	Electro-hydraulic composite system: a new generation of electro-hydraulic composite system, high operational efficiency, smooth control of the combined action.
	control system	Adopting bus instrument with integrated one-piece electrical system, real-time monitoring of driving parameters and operating parameters. High-precision torque display, multi-dimensional safety detection, all-round safety guarantee.
	hoisting mechanism	The winch adopts a quantitative motor for more efficient operation speed and smooth lifting and lowering of heavy loads.
	luffing system	The use of a self-weighted drop system improves drop smoothness and also reduces energy consumption.
	rotary system	1250mm diameter slewing bearing, maximum slewing speed 2.6r/min, stable movement, reliable system, smooth braking.
	safety device	Hydraulic relief valves, counterbalance valves, bi-directional hydraulic locks, torque limiters, three-turn protectors and height limiters.
	telescopic boom	5-section rope row main arm, made of high-strength welded structural steel, elliptical cross-section, optional 8m jib.
	counterweight	Large 6.8t counterweight is standard.

下车/ Chassis

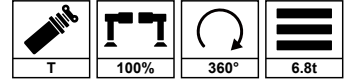
	cabs	Sany independently developed a new generation of cabs with outward opening doors, equipped with cold and warm air-conditioning.
	chassis	Large cross-section homemade frames.
	axle	Built-in inter-axle and inter-wheel differentials; punch-welded axle shell process, stronger load-carrying capacity.
	motor	Yuchai diesel engine, emission meets National VI standard. The effective volume of metal fuel tank is 300L.
	transmission system	Faster 9-speed transmission, equipped with synchronizer.
	braking system	Driving brake adopts double circuit brake system, all wheels use air servo brake; Auxiliary brake adopts engine brake to ensure braking safety when going down a long slope.
	Suspension System	The front axle adopts leaf spring suspension and the center and rear axles adopt rubber suspension, which provides good shock absorption and comfortable driving.
	steering system	1-axle hydraulically assisted mechanical steering.
	driver	2-axis + 3-axis drive.
	outrigger	H-type outriggers with 4-point support are made of fine grain high-strength steel plate material; the vertical cylinder of the outrigger adopts two-way hydraulic lock for safety protection.
	tires	11(number of tires)-Tire specification: 12R22.5, steel wire tires, high load capacity and durable.





起升高度曲线图 Lifting height graph

主臂+副臂 (TJ) Boom + Jib (TJ)



unit: kg

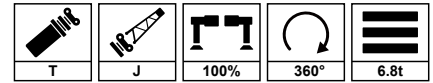






 m	10.7	14.5	16.4	18.3	22	24	27.7	29.6	33.4	35.3	41	 m
3.0	25000	25000	19600									3.0
3.5	25000	25000	19600									3.5
4.0	24800	24000	19600	20500	18000							4.0
4.5	24000	23000	19600	20000	18000	17600						4.5
5.0	22500	22000	19600	19500	18000	17600						5.0
5.5	21200	20000	19000	19000	17800	17600	12000					5.5
6.0	19200	18600	18000	17800	17500	16700	12000	13500				6.0
6.5	17500	17500	17200	16500	16800	15600	12000	13500	8500			6.5
7.0	15800	16000	16400	15500	15200	14600	11500	13000	8500	10000		7.0
8.0	13500	13400	14200	13000	14000	13000	10500	12000	8100	10000		8.0
9.0		11200	12500	11200	12500	11400	9400	11000	8000	9500	7000	9.0
10.0		9000	10500	9000	10700	9800	8500	10000	7400	8500	7000	10.0
11.0		7800	9000	7500	9200	8200	7800	8700	6700	7800	6600	11.0
12.0			7800	6300	8000	7000	7100	7500	6200	7200	6100	12.0
13.0				5300	6900	6000	6500	6400	5700	6600	5700	13.0
14.0				4500	6300	5200	6000	5600	5200	5800	5300	14.0
15.0					5400	4500	5500	4900	4800	5100	4900	15.0
16.0					4800	3800	5000	4200	4400	4500	4500	16.0
18.0						2800	4000	3300	3900	3500	3700	18.0
20.0							3200	2500	3500	2800	2900	20.0
22.0							2700	2000	2800	2200	2300	22.0
24.0								1400	2300	1700	1800	24.0
26.0									1900	1300	1400	26.0
28.0										1000	1100	28.0
30.0											800	30.0
32.0											600	32.0
2#	0	50	0	100	0	100	0	100	0	100	100	2#
3#	0	0	25	0	50	25	75	50	100	75	100	3#
4#	0	0	25	0	50	25	75	50	100	75	100	4#
5#	0	0	25	0	50	25	75	50	100	75	100	5#
	8	8	6	6	6	5	4	4	4	3	3	

05 | 起重性能表 Lifting performance table

主臂+副臂 (TJ) Boom + Jib (TJ)

unit: kg



	41m+8m			
	0	15	30	
78	2800	2500	1900	78
75	2800	2400	1800	75
72	2700	2200	1700	72
70	2600	2000	1600	70
65	2000	1700	1400	65
60	1600	1500	1000	60
55	1000	900	700	55
50	700	600	400	50
	1			

Remarks:

- 1, the lifting performance of the given values in the table is in a flat solid ground, the whole machine leveling state of the crane's rated lifting capacity.
- 2、 The working range in the lifting performance table refers to the actual range after lifting the load.
- 3, lifting performance table in the stability of the decision to determine the value of the rated load in accordance with ISO4305.
- 4, lifting performance table rated lifting capacity including lifting hook and spreader weight.
- 5、 With the fifth leg open, the values in the table apply to all-round (360°) operation.
- 6、 When using the jib tip pulley, the rated lifting capacity shall not exceed 3500kg. if the secondary lifting arm is in the unfolded state, the rated lifting capacity of the main jib shall be reduced by 500kg. 7、 If the actual jib length and amplitude are between the two values, take the rated lifting capacity decided by the longer jib length and larger amplitude to carry out the lifting operation.