

 38.5m

 39m

 598KN·m

 2t



STC120T5-1 (24 style)

SANY TRUCK CRANE



QUALITY CHANGES THE WORLD

推介书内的参数、图片和配置仅供参考，实际配置以实物为准。

▶ Contents

Truck Crane



01

Introduction

▶ 04

02

Overall Dimensions

▶ 06

03

Technical Specification

▶ 07

04

Crane Introduction

▶ 08

05

Working Range + Load Charts

▶ 09

01 | Introduce

Excellent performance Structure 3.0 platform

Fully extended boom length of 38.5 m, super large U-shaped main boom, cross-sectional area increased by 7%, lifting performance improved by 15%;

The frame cross-sectional area is increased by 7%, the outrigger cross-sectional area is increased by 23%, and the counterweight is 2T. The vehicle has a reasonable weight distribution, strong torsion resistance, and industry-leading lifting stability.

Energy saving and consumption reduction i-ECO 1.0 system

Sensory regeneration technology, engine speed self-matching to clean carbon deposits, achieving long-term operation without stopping.

Leading in handling Pilot control system

New hydraulics, 110ml/r large displacement 9-piston oil pump + load-sensing system, greatly improves the combined action performance and controllability;

Pressure adaptive telescopic technology, upgraded boom telescopic stability, small impact when the arm is started, solves the problem of arm shaking at small openings.

Comfortable evolution Extra-wide operating room

Newly upgraded classic 311 cab and Shenzhou operating room, with large space and more comfortable driving experience.



38.5m



90km/h



2t



6.2m x 5.15m



173kW/2300rpm(Yuchai)



NS-Reg Tech
无感再生技术



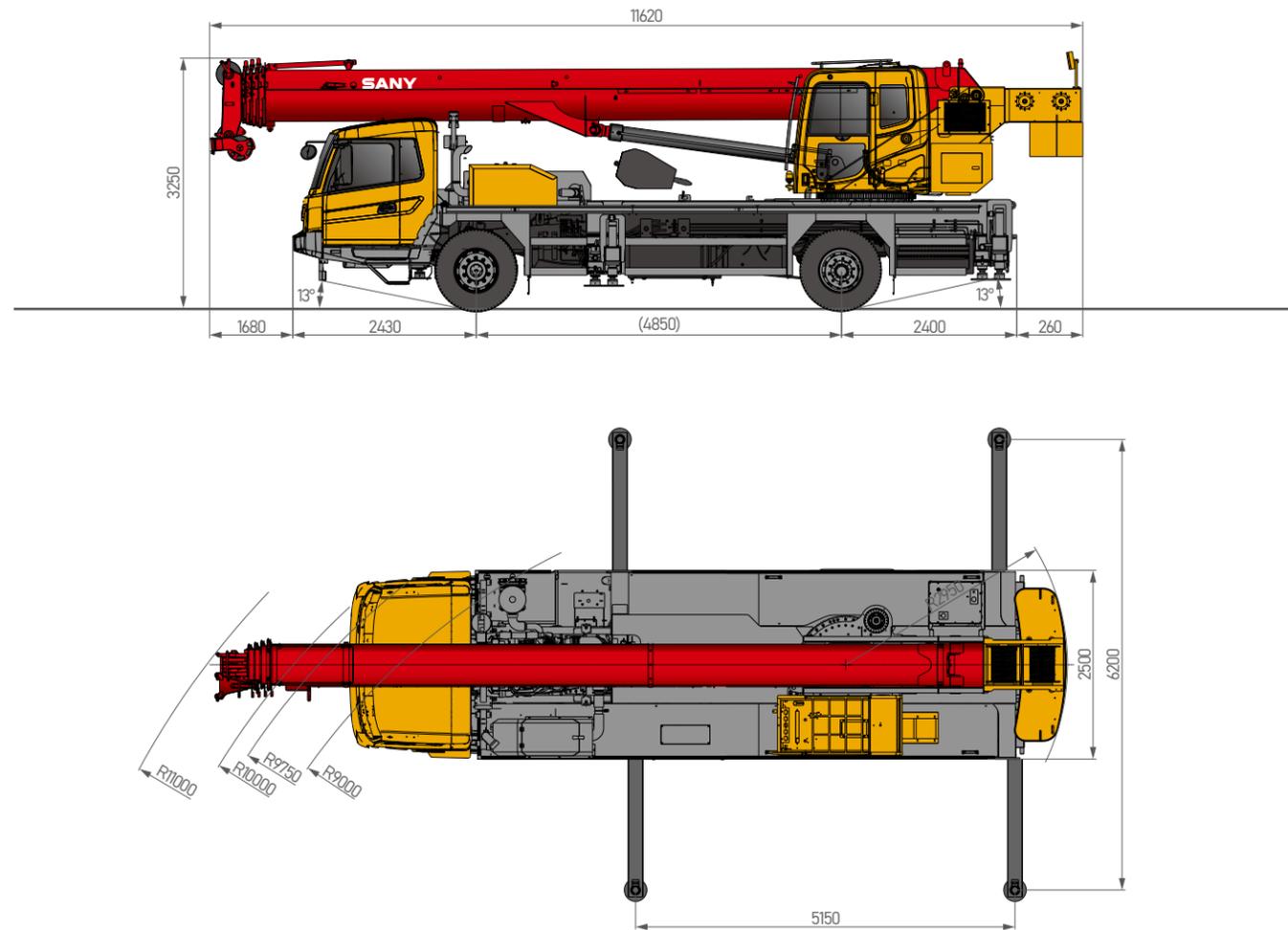
i-ECO
i-ECO系统



压力自适应伸缩

STC120T5-1(24Style)
SANY TRUCK CRANE

02 Overall Dimensions



type	Item	Unit	parameter	
Size parameters	Overall length	mm	11620	
	Overall width	mm	2500	
	Overall height	mm	3250	
Weight parameters	Overall mass	kg	19200	
	Load	Front axle	kg	6900
		Rear axle	kg	12300

Note: Without arm tip pulley, the main hook is placed on the walkway and the auxiliary hook is placed on the auxiliary hook bucket.

03 Technical Specification

Type	Item	Unit	Parameter	
Power parameters	Engine model	-	Yuchai YCDV4863-235	
	Maximum engine power	kW/rpm	173/2300	
	Maximum engine output torque	N-m/rpm	860/ (1200-1700)	
Driving parameters	Maximum driving speed	km/h	90	
	Minimum turning radius	m	9	
	Approach angle/departure angle	°	13/13	
	Maximum climbing grade	%	45	
	Fuel consumption per 100 kilometers	L	18	
	Main performance parameters	Maximum rated total lifting weight	T	12
Turntable tail turning radius		m	2.95	
Outrigger span (lateral × longitudinal)		m	6.2×5.15	
Boom length		Basic boom	m	10
		Longest main boom	m	38.5
Maximum lifting moment		Basic boom	kN-m	598
		Longest main boom	kN-m	365

Hook and ratio	Rated load/t	Number of pulleys	multiplying power	Hook weight/kg
	12	3	6	110
	3	1	1	52

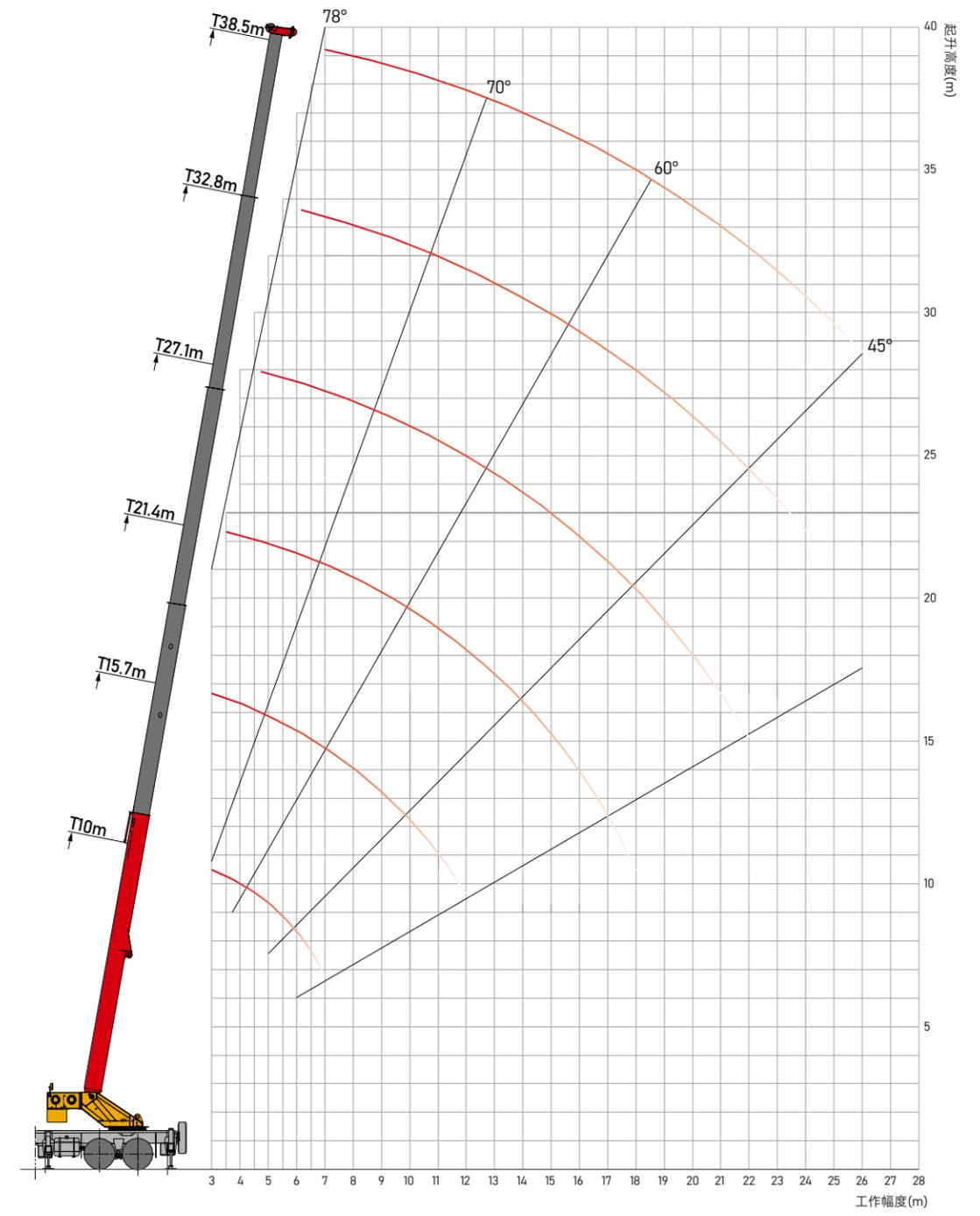
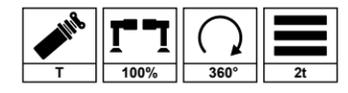
Speed of work	Item	Parameter	Wire rope diameter/length	Maximum single rope tension
	Main winch	Single rope speed 0~130m/min	12mm/160m	3t
Auxiliary winch	Single rope speed 0~130m/min	12mm/85m	3t	
Slewing		0~2.5r/min		
Raising/lowering		35s/60s (0~80°)		
Arm extension/retraction		45s/40s (10m~38.5m)		
Vertical outrigger extension/retraction		25s/25s		
Horizontal outrigger extension/retraction		25s/20s		

SupersTrucTure

	Turntable	▪ Self-made structural parts, high-strength steel, high torsional stiffness and long fatigue life.
	Control room	▪ Extra-large interior space; equipped with panoramic sunroof, adjustable seats, electric wipers and other humanized designs.
	Hydraulic system	▪ Load-sensitive pump, real-time displacement adjustment, precise control of combined actions.
	Control system	▪ Adopt bus instrument with integrated electrical system to monitor driving parameters and operating parameters in real time.
	Lifting mechanism	▪ The winch adopts high-quality quantitative piston motor, which makes heavy objects rise and fall faster and more steadily.
	Luffing system	▪ The self-weight drop system can not only improve the stability of the drop, but also reduce energy consumption.
	Slewing system	▪ 360° rotation, stable action, reliable system, and smooth braking.
	Safety device	▪ Hydraulic overflow valve, balance valve, two-way hydraulic lock, torque limiter, three-circle protector, height limiter.
	Telescopic boom	▪ 5-section single-cylinder rope-row main boom, U-shaped section.
	Counterweight	▪ 2T fixed counterweight, no movable counterweight.

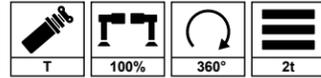
Chassis

	Cab	▪ Sany self-developed, outward-opening doors, equipped with air conditioning, optional sleeper.
	Frame	▪ Sany self-made structural parts, made of high-strength steel, high rigidity and strong load-bearing capacity.
	Axle	▪ Punching and welding bridge shell technology, strong load-bearing capacity.
	Engine	▪ Yuchai diesel engine, emission meets Stage-VI standard; fuel tank effective volume 170L.
	Transmission	▪ 8-speed gearbox, equipped with synchronizer.
	Brake system	▪ Service brake: dual-circuit air brake; ▪ Parking brake: spring energy storage brake; ▪ Auxiliary brake: engine exhaust brake.
	Suspension system	▪ All axle suspension devices are leaf spring suspension systems.
	Drive	▪ 2-axis is the drive shaft
	Outriggers	▪ H-type outrigger 4-point support, easy to operate, strong stability; the movable outrigger is fully hydraulically extended and retracted horizontally. Low outrigger design, standard fifth outrigger, greatly improved stability.
	Tires	▪ 6×12R22.5.



05 | Load Charts

Main boom (T)



Unit: kg

 m	10	15.7	21.4	27.1	32.8	38.5	 m
3	12000	12000					3.0
3.5	12000	12000	9800				3.5
4	12000	12000	9800				4.0
4.5	12000	12000	9800	8600			4.5
5	12000	11000	9800	8400			5.0
5.5	11100	10200	9400	8200			5.5
6	10100	9500	8700	7800	5500		6.0
6.5	9300	8900	8200	7300	5500		6.5
7	8500	8300	7700	7000	5400	4400	7.0
8		6900	6900	6100	5000	4400	8.0
9		5500	5800	5600	4500	4000	9.0
10		4700	4900	4800	4100	3700	10.0
11		3900	4100	4000	3800	3300	11.0
12		3200	3500	3300	3400	3100	12.0
14			2400	2500	2600	2600	13.0
16			2000	1900	2000	2100	14.0
18			1400	1400	1500	1600	15.0
20				1100	1200	1300	16.0
22				800	900	1000	18.0
24					700	800	20.0
26						500	22.0
 n	6	6	5	4	3	3	 n
 %	0	20	40	60	80	100	 %

Notes:

1. The values listed in the table are the maximum values allowed and include the weight of the hook and the sling.
2. The working range in the table refers to the actual range after loading.
3. When working outdoors, the wind force can only be operated when it is below level 6.
4. The lifting performance of the single pulley at the end of the main arm is the same as the working condition of the 38.5m main arm, and its maximum lifting capacity should be 2t.
5. The lifting values in the table are the maximum lifting capacity of this crane when the ground is solid and the whole machine is leveled.