

SANY[®]

QUALITY CHANGES THE WORLD



30 t



43 m



51.5 m

STC300T5-8

SANY Truck Crane

SANY CRANE

BETTER WORLD, BETTER SANY CRANE

SANY CRANE is one of the core business units in SANY Group, specializing in the development and manufacturing of high-end wheeled cranes, crawler cranes.

三一集团旗下核心事业部，从事高端轮式起重机、履带起重机系列产品的研发制造。





CONTENTS

目录

Crane Overview 整机概述	▶ 04
Highlights 整机亮点	▶ 06
Overall Dimensions 整机尺寸	▶ 09
Technical Specifications 整机参数	▶ 10
Machine Introduction 整机介绍	▶ 12
Working Conditions & Code Description 工况组合及工况代码说明	▶ 14
T	15
TJ	16
Icon Description 图标说明	▶ 17
SANY Overseas Service 三一海外服务	▶ 18

CRANE OVERVIEW

整机概述

The STC300T5-8 is a 3-axle truck crane with a 30-ton lifting capacity, featuring a 5-section boom with a maximum length of 43 m and a lifting moment of 1250.5 kN·m. Powered by a DF Cummins Z10 series engine with a FAST 9-speed transmission, it delivers strong mobility on tough roads.

STC300T5-8是一款最大额定起重量30吨，5节臂，最大臂长43m，最大起重力矩达到1250.5kN·m的3桥汽车起重机。全新升级的东康Z10系列发动机搭配法士特9档变速箱，提升恶劣路面通过能力。



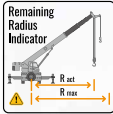
Truck Crane
STC300T5-8 / 30t Lifting Capacity



Driver's cab
新两室-下车



Operator's cab
新两室-上车



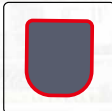
Remaining Radius Indicator
剩余幅度提示



Electro-Hydraulic Synergy System
电液复合系统



Intelligent Configuration Recommendation
工况智能推荐



Oval-Section Boom
椭圆形大臂



Self-diagnosis Function
故障自诊断



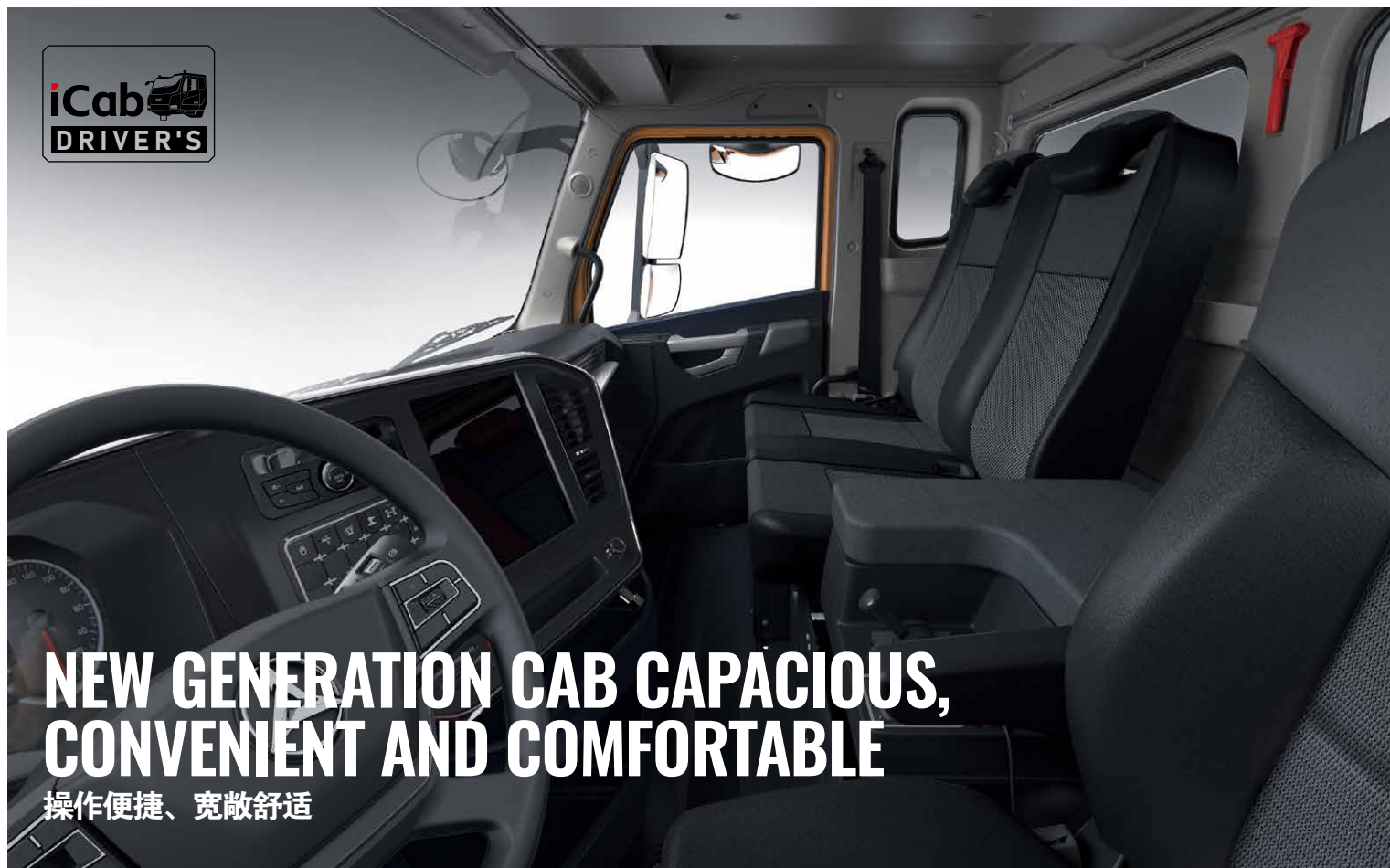
i-ECO2.0
i-ECO2.0系统



Enhanced Corrosion Protection (optional)
强效防腐保护(选配)

HIGHLIGHTS

整机亮点



NEW GENERATION CAB CAPACIOUS, CONVENIENT AND COMFORTABLE

操作便捷、宽敞舒适

Driver's cab

新两室-下车

- Multi-function seat with air suspension, making driving more comfortable.
- Foldable double passenger seats.
- 12.1-inch touch screen integrated with back-up image and multi-media.
- Electric rearview mirror with electric heating, ensuring good field of view in foul weather.
- Adjustable high-brightness LED headlamps/fog lamps, providing clear vision at night.
- 气浮多功能驾驶座椅，驾驶更舒适
- 可折叠式双座椅副驾驶
- 12.1英寸触摸大显示屏，集成倒车影像、语音娱乐功能
- 电动、电加热后视镜，不惧怕恶劣冰雪天气
- 高亮度可调节LED大灯/雾灯，夜间视野清晰



BRAND-NEW OPERATOR'S CAB, HIGH-END COCKPIT

全新操纵室，高端座舱

Operator's cab

新两室-上车

- 10.1-inch touch screen.
- Openable front window convenient for ventilation and escape.
- Sliding door, more convenient for getting on/off the cab and opening/closing the door.
- Through-type electric telescopic pedal for easier entry and exit.

- 10.1英寸触摸屏
- 可开启式前窗，视野开阔，方便通风及逃生
- 滑移门，上下车、开关门更方便
- 贯通式电动伸缩踏板，上下车更方便



HIGHLIGHTS

整机亮点



Oval-Section Boom 椭圆形大臂

Further enlarged cross-sectional area delivers optimal local stability and rigidity.

新一代椭圆形主臂，进一步加大的截面面积，带来更优异的局部稳定性和刚性。



i-ECO2.0 System i-ECO2.0系统

Using a variable-displacement pump and torque-matching control based on operating demands, the system boosts energy utilization and achieves lower fuel consumption during operation.

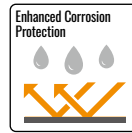
采用变功率泵、基于作业需求匹配发动机扭矩，提升能量利用率，作业油耗低。



Electro-Hydraulic Synergy System 电液复合系统

The i-EHC2.0 system combines the high responsiveness of hydraulics with the precision of electronic control, delivering a smoother, more efficient, and highly stable operating experience.

i-EHC2.0系统，结合液压的高响应性与电控的高精度，实现更稳定、更高效的操控体验。



Enhanced Corrosion Protection (optional) 强效防腐保护(选配)

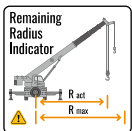
Standard C4 coating with an optional C5 heavy-duty anti-corrosion coating, greatly extending the corrosion resistance lifespan.

标配C4涂装，可选C5重防腐涂装，极大地延长了防腐寿命。

iCrane 1.0 System

The iCrane1.0 system features powerful data processing capabilities, ensuring your equipment operates with enhanced safety, reliability, ease of use, and efficiency—giving you complete peace of mind.

iCrane1.0 系统拥有强大的信息处理能力，确保您的设备安全、可靠，易用，高效，让您使用无忧。



Remaining Radius Indicator 剩余幅度提示

Based on the actual lifted load, the system displays the current operating radius and the maximum permissible radius in real time, helping prevent overload and tip-over under unknown conditions.

可根据实际吊重，实时显示当前幅度及额载最远的幅度，避免在未知的情况下超载倾翻。



Intelligent Configuration Recommendation 工况智能推荐

Based on the input lifting radius, load weight, and lifting height, the system intelligently recommends the optimal working configuration, significantly reducing operating difficulty.

可根据吊载物幅度、重量、高度，智能推荐合适工况，极大地减小操作难度。



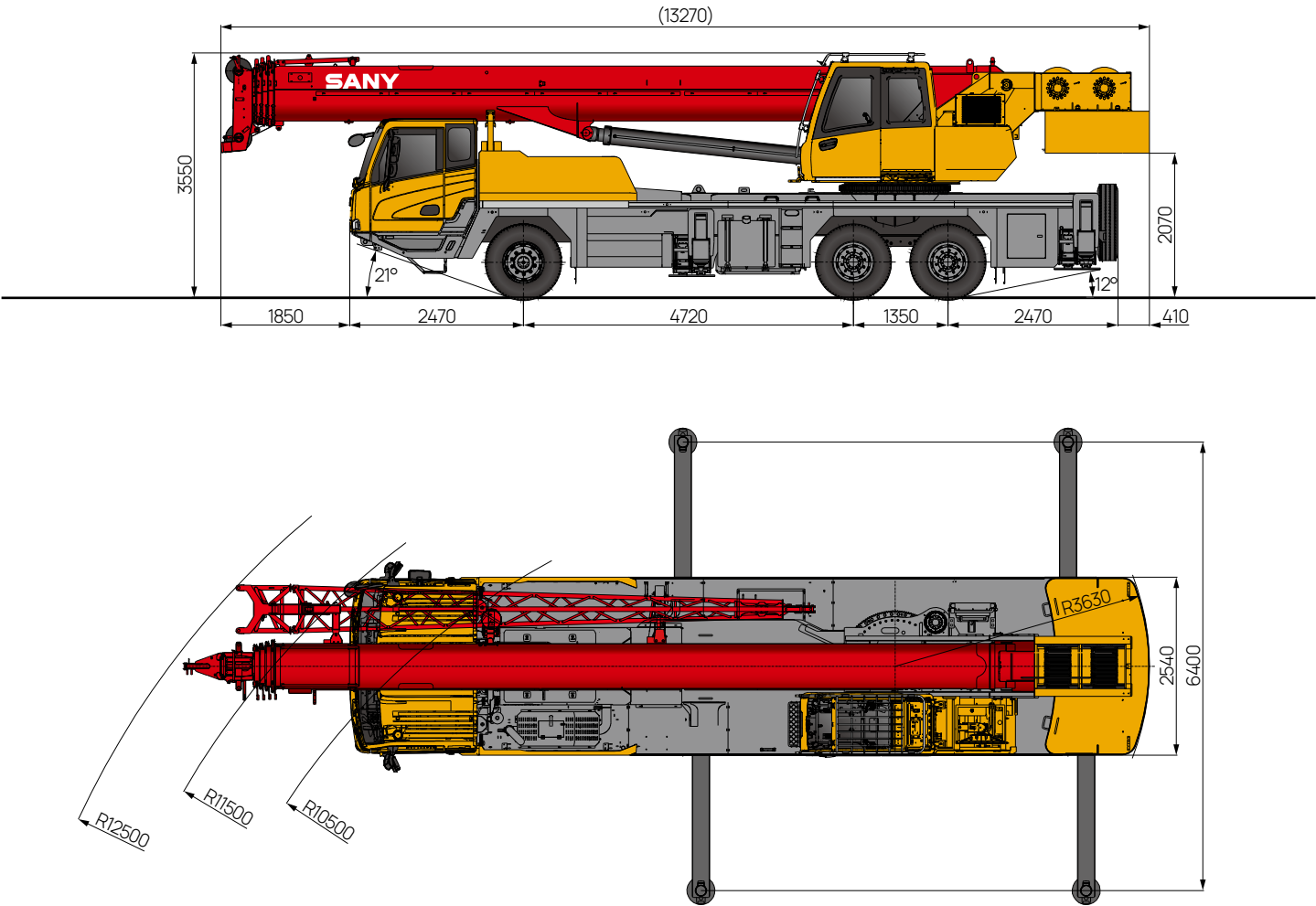
Self-diagnosis Function 故障自诊断

Minor issues can be quickly fixed on-site, while complex problems are resolved faster, minimizing downtime and keeping operations efficient.

小故障设备自己快速解决，难点故障提升修复效率，缩短怠工时间。

OVERALL DIMENSIONS
整机尺寸

Unit: mm



TECHNICAL SPECIFICATIONS

整机参数

CATEGORY 类型	ITEM 项目	UNIT 单位	VALUE 参数
CAPACITY 额定起重量	Max. lifting capacity 最大起重量	t	30
WEIGHT 重量参数	Gross weight 整机总质量	kg	33400
	Axle load 载荷	kg	7400
	1-axis loads 一轴负荷 2. 3-axis loads 二、三轴负荷	kg	26000
POWER (CHASSIS) 发动机参数(下车)	Engine model 发动机型号	-	Z10E330 31
	Max. engine power 发动机最大功率	kW/rpm	243/1900
	Max. engine torque 发动机最大输出扭矩	N·m/rpm	1400/800~1400
DIMENSIONS 尺寸参数	Overall length 整机全长	mm	13270
	Overall width 整机全宽	mm	2550
	Overall height 整机全高	mm	3550
TRAVEL 行驶参数	Max. travel speed 最高行驶速度	km/h	90
	Min. steering radius 最小转弯半径	m	10.5
	Min. steering radius of boom tip 臂头最小转弯半径	m	12.5
	Wheel formula 车轮模式	-	6×4×2
	Min. ground clearance 最小离地间隙	mm	250
	Approach angle 接近角	°	≥21
	Departure angle 离去角	°	≥12
	Max. gradeability 最大爬坡度	-	51%
	Fuel consumption per 100km 每100公里油耗	L	≤30
MAIN PERFORMANCE 主要性能参数	Min. rated lifting radius 最小额定幅度	m	3
	Tail slewing radius 转台尾部回转半径	m	≤3.63
	Boom sections (Qty.) 臂节数	-	5
	Boom shape 臂形状	-	Oval shape 椭圆形
	Max. lifting moment 最大起重力矩	Basic boom 基本臂	kN·m 1250.5
		Full-extension boom 全伸主臂	kN·m 840
		Longest boom + fixed jib combination 最长主臂+固定副臂组合	kN·m 408
	Boom length 臂长	Basic boom 基本臂	m 10.96
		Full-extension boom 全伸主臂	m 43
		Longest boom + fixed jib combination 最长主臂+固定副臂组合	m 51
	Max. lifting height 最大起重高度	Basic boom 基本臂	m 11.5
		Full-extension boom 全伸主臂	m 43.5
		Longest boom + fixed jib combination 最长主臂+固定副臂组合	m 51.5
	Outrigger span (Longitudinal×Transverse) 支腿跨距(纵×横)	m	6.4×5.5
	Jib offset 副臂安装角度	°	0, 15, 30
AIRCONDITIONER 空调	In operator's cab 上车空调	-	Cooling 制冷
	In driver's cab 下车空调	-	Heating & cooling 制冷、制热

TECHNICAL SPECIFICATIONS

整机参数

■ Axle Load 轴荷

	1	2	3	
Axle load 轴荷 /t	7.4	13	13	33.4

■ Hook 吊钩

			 kg	
30t	4	8	320	●
5t	-	1	85	●

● Standard 标配 ○ Optional 选配

■ Operations 主要动作参数

			 L	 F
	0~130m/min	Φ16mm	195m	4.5t
	0~130m/min	Φ16mm	110m	4.5t
	0~2.4r/min			
	40s/50s			
	90s/105s			
	25s (Extension 伸) / 20s (Retraction 缩)			
	25s (Extension 伸) / 20s (Retraction 缩)			

MACHINE INTRODUCTION

整机介绍

Carrier 下车

Driver's cab 驾驶室

- Sany independently developed new generation driver's cab with outward opening doors and equipped with air conditioning for both heating and cooling.
- 三一自主研发新一代驾驶室，外开式车门，配置冷暖空调。

Carrier frame 车架

- SANY's self-manufactured structural components are built with high-strength structural steel and feature a large-section.
- 三一自制结构件，采用高强度结构钢制造，大截面自制车架。

Axle 车桥

- Dual reduction axle with internal axle and wheel differential lock. Press welding process strengthens the axle cover.
- 双减桥、内置轴间、轮间差速；冲焊桥壳工艺，承载能力更强。

Engine 发动机

- DF Cummins diesel engine, its emissions comply with Euro III standards.
- The effective volume of the metal fuel tank is 300L.
- 东康柴油发动机，排放符合欧III标准。
- 金属燃油箱有效容积300L。

Transmission 变速箱

- Fast 9-grade gearbox with Synchronization.
- 法士特9档变速箱，配置同步器。

Brake 制动系统

- The driving brake adopts a dual circuit braking system, and all wheels are equipped with air servo brakes.
- The auxiliary braking adopts engine braking to ensure safe braking on long slope downhill.
- 行车制动采用双回路制动系统，所有车轮均用空气伺服制动器。
- 辅助制动采用发动机制动，保证在下长坡时的制动安全。

Suspension system 悬挂系统

- The front axle adopts plate spring suspension, and the middle and rear axles adopt rubber suspension, which has good shock absorption effect and comfortable room.
- 前轴采用板簧悬架，中后桥采用橡胶悬挂，减震效果好，行驶舒适。

Steering 转向系统

- Axle 1 adopts a hydraulically assisted mechanical steering system and is equipped with emergency steering.
- 1轴液压助力机械转向，带应急转向。

Drive sysTem 驱动系统

- 2nd -axis+3rd -axis to drive.
- 2轴+3轴驱动。

Outrigger 支腿

- H-shaped outriggers with 4-point support, which are made of fine-grained high-strength steel plate material; The vertical oil cylinder of the outriggers adopts a bidirectional hydraulic lock for safety protection.
- H型支腿4点支撑，采用细晶粒高强度钢板材料；支腿垂直油缸采用双向液压锁进行安全保护。

Tires 轮胎

- 11 (number of tires) - Tire specification: 315, steel wire tire, with high load-bearing capacity and durability.
- 11（轮胎数）—轮胎规格: 315，钢丝胎，承载能力大，耐用。

MACHINE INTRODUCTION

整机介绍

■ Superstructure 上车



Operator's cab 操纵室

- Sany self-made structural elements which was made of high-strength steel, with high torsional stiffness and long fatigue life.
- 三一自制结构件，高强度钢材制造，扭转刚度大、疲劳寿命长。



Operator's cab 操纵室

- Sany independently developed operation room, maximizing the use of internal space, equipped with fully covered softened interior, panoramic sunroof, adjustable seats and other humanized designs; it was equipped with a 10.1-inch display screen and the interaction was upgraded.
- 三一自主开发新一代操纵室、最大限度利用内部空间，配置全覆盖软化内饰、全景式天窗以及可调式座椅等人性化设计；配置10.1英寸显示屏，交互升级。



Hydraulics 液压系统

- Electro hydraulic Composite System: The new generation of electro hydraulic composite system has efficient and smooth control on combination action.
- 电液复合系统：新一代电液复合系统，作业高效，组合动作操控平顺。



Control system 控制系统

- Adopted an integrated electrical system to monitor driving parameters and operating parameters in real time.
- High precision load moment indicator and multi-dimensional safety detection can provide all-round safety assurance.
- 采用集成一体式电气系统的总线仪表，实时监控行驶参数与作业参数。
- 高精度力矩显示，多维度安全检测，全方位安全保障。



Hoist 起升机构

- The winch adopted a quantitative motor to ensure a more efficient operation speed and smooth lifting of heavy objects.
- 卷扬采用定量马达，作业速度更高效，重物起落平稳。



Luffing system 变幅系统

- Adopting a self-weight luffing-down system to not only improve the stability of the drop, but also reduce energy consumption.
- 采用自重落幅系统，既能提高落幅平稳性，还能降低能耗。



Boom & telescoping system 伸缩系统

- The main arm of the 5-section rope arrangement is made of high-strength welded structural steel, with an elliptical cross-section and an standard 8m jib.
- 5节绳排主臂，由高强度焊接结构钢制成，椭圆型截面，标配8m副臂。



Slewing 回转系统

- 1400mm diameter slewing support, maximum slewing speed of 2.4r/min, which has stable operation, reliable system, and smooth braking.
- 1400mm直径回转支承，最大回转速度2.4r/min，动作稳定，系统可靠，制动平稳。



Safety equipment 安全装置

- Hydraulic relief valve, balance valve, bidirectional hydraulic lock, torque limiter, 3rd Wrap Protector, and height limiter.
- 液压溢流阀、平衡阀、双向液压锁、力矩限制器、三圈保护器和高度限位器。

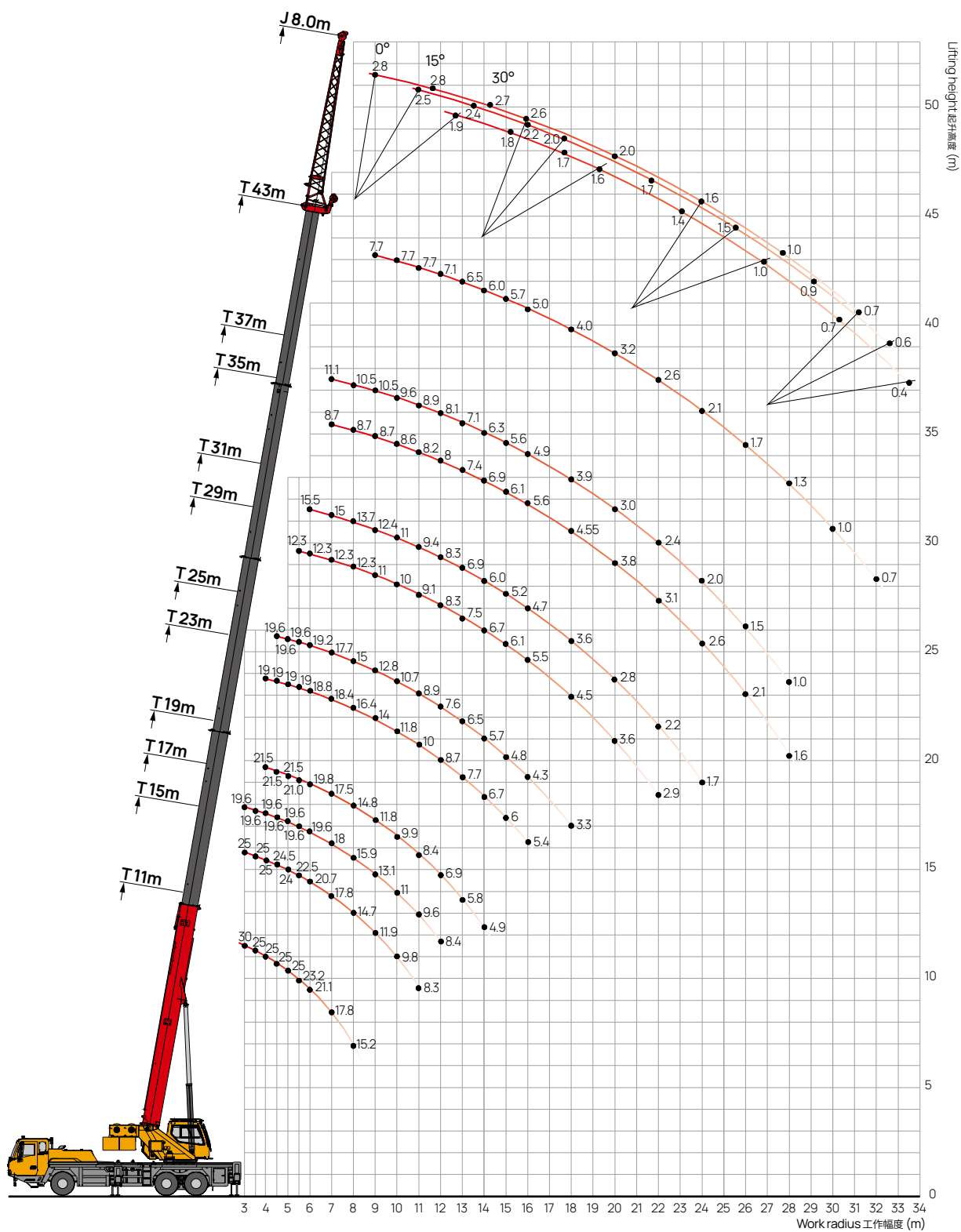


Counterweight 配重

- Standard 7t large counterweight.
- 标配7t大配重。

OPERATING RANGE - TJ

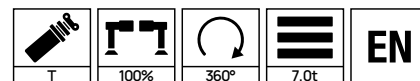
起升高度曲线 - 主臂 + 副臂



LOAD CHART - T

性能表 - 主臂

Unit: kg



 m	10.96	14.96	16.97	18.96	22.98	24.97	28.99	30.98	35.00	36.99	43.00	 m
3.0	30000	25000	19600									3.0
3.5	25000	25000	19600									3.5
4.0	25000	25000	19600	21500	19000							4.0
4.5	25000	24500	19600	21500	19000	19600						4.5
5.0	25000	24000	19600	21500	19000	19600						5.0
5.5	23200	22500	19600	21000	19000	19600	12300					5.5
6.0	21100	20700	19600	19800	18800	19200	12300	15500				6.0
7.0	17800	17800	18000	17500	18400	17700	12300	15000	8700	11100		7.0
8.0	15200	14700	15900	14800	16400	15000	12300	13700	8700	10500		8.0
9.0		11900	13100	11800	14000	12800	11000	12400	8700	10500	7700	9.0
10.0		9800	11000	9900	11800	10700	10000	11000	8600	9600	7700	10.0
11.0		8300	9600	8400	10000	8900	9100	9400	8200	8900	7700	11.0
12.0			8400	6900	8700	7600	8300	8300	8000	8100	7100	12.0
13.0				5800	7700	6500	7500	6900	7400	7100	6500	13.0
14.0				4900	6700	5700	6700	6000	6900	6300	6000	14.0
15.0					6000	4800	6100	5200	6100	5600	5700	15.0
16.0					5400	4300	5500	4700	5600	4900	5000	16.0
18.0						3300	4500	3600	4550	3900	4000	18.0
20.0							3600	2800	3800	3000	3200	20.0
22.0							2900	2200	3100	2400	2600	22.0
24.0								1700	2600	2000	2100	24.0
26.0									2100	1500	1700	26.0
28.0									1600	1000	1300	28.0
30.0											1000	30.0
32.0											700	32.0
 m	8	8	6	6	6	5	4	4	4	3	3	 m
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#

LOAD CHART - TJ

性能表 - 主臂 + 副臂

Unit: kg

T

J

100%

360°

7.0t

EN

 m	43m+8m			 m
	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
 T _n	1	1	1	 T _n
2#	100	100	100	2#
3#	100	100	100	3#
4#	100	100	100	4#
5#	100	100	100	5#

- Remark 备注:
- The values given in the table represent the rated lifting capacities of the crane when it is properly leveled and operating on firm, level ground.
 - The working radius in the table refers to the actual radius under load.
 - Rated loads determined by stability are in accordance with ISO4305.
 - The rated lifting capacities listed include the weight of the hook and lifting accessories.
 - With the fifth outrigger fully deployed, the values in the table apply to 360° all-round operations.
 - When using the boom tip sheave, the rated lifting capacity must not exceed 4500 kg. If the jib is deployed, the rated lifting capacity of the boom must be reduced by 500 kg.
 - If the actual boom length and working radius fall between two specified values, the rated lifting capacity corresponding to the longer boom and larger radius shall be used.
- 1、起重性能表中给定数值是在平整坚固的地面上，整机调平状态下起重机的额定起重量。
2、起重性能表中工作幅度是指吊载后的实际幅度。
3、起重性能表中的稳定性决定的额定载荷数值的确定遵循ISO4305。
4、起重性能表中额定起重量包括起重钩和吊具的重量。
5、打开好第五支腿时，表中数值适用于全方位(360°)作业。
6、使用臂尖滑轮时额定起重量不超过4500kg。若副起重臂处于展开状态，主臂起吊的额定起重量应减少500kg。
7、如果实际臂长和幅度介于两个数值之间时，取较长的臂长及较大的幅度所决定的额定起重量进行起吊作业。

ICON DESCRIPTION

图标说明

 Max. lifting capacity 最大起重量	 Max. boom length 最大主臂长	 Max. lifting radius 最大吊载幅度	 Max. lifting height 最大吊载高度	 Driver's cab 驾驶室
 Carrier frame 车架	 Engine 发动机	 Transmission 变速箱	 Transfer case 分动箱	 Axle 车桥
 Outrigger 支腿	 Slewing platform 转台	 Suspension system 悬挂	 Steering 转向	 Tires/Tire size 轮胎/轮胎尺寸
 Wheel formula 轮胎模式	 Transmission shaft 传动轴	 Brake system 制动系统	 Electrical system 电气系统	 Hydraulic system 液压系统
 Operator's cab 操纵室	 Control system 控制系统	 Hoist 起升机构	 Slewing 回转机构	 Safety equipment 安全装置
 Load moment indicator 力矩限制器	 Counterweight 配重	 CW rearward positioned 配重后移	 Boom & telescoping system 主臂	 Luffing system 变幅系统
 Jib 副臂	 Superlift device 超起	 Wind power jib 风电副臂	 Luffing jib 塔臂	 Auxiliary jib 鹅头臂
 Boom extension 主臂延伸臂	 Auxiliary boom nose 臂尖滑轮	 Rear storage box 尾部储物箱	 Optional equipment at extra fees 选配	 Motor 电机
 Hybrid Powertrain 混动总成	 Power battery 动力电池			
 Axle load 轴荷	 Weight 重量	 Number of sheaves 滑轮数量	 Min. travel speed 最小行驶速度	 Max. travel speed 最大行驶速度
 Max. gradeability 最大爬坡度	 Gear 档位	 Onroad gear 高速档	 Crawl speed 龟速档	 Hook 吊钩
 Main hook 主钩	 Auxiliary hook 副钩	 Rope rate 倍率	 Max. supporting forces 最大支撑力	 Outrigger pads 支脚盘
 Outrigger jack 垂直支腿	 Outrigger beam 水平支腿	 Front outrigger 前支腿	 Rear outrigger 后支腿	 Hook weight 吊钩重量
 Operations 主要动作	 Max. single line lifting speed (empty load) 单绳速度(空载)	 Rope diameter 钢丝绳直径	 Rope length 钢丝绳长度	 Max. single line pull 最大单绳拉力
 Main winch 主卷扬	 Auxiliary winch 副卷扬	 Full luffing up/down time of boom 主臂起落幅时间	 Full extension/retraction time of boom 主臂伸缩时间	 Anemometer 风速仪
 Spare tire 备胎				

SANY OVERSEAS SERVICE

三一海外服务

GLOBAL SUPPORT ANYTIME ANYWHERE NO MORE WAITING

900+



Overseas service centers
海外服务中心

3500+



Professional technical
service engineers
专业技术服务

365×24



Support
全时服务

Service Center

Tel: +86 4006098318

Mail: CRD@sany.com.cn

WhatsApp: +86 19908478631 (Only WhatsApp)



On-demand professional equipment repair services available anytime, anywhere, ensuring rapid response and efficient solutions.

随时一键呼叫专业设备维修服务，快速响应，高效解决。

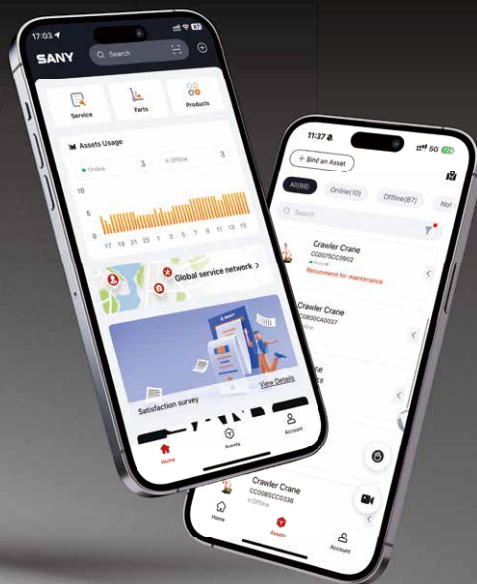


Download MySANY for a comprehensive, all-in-one experience!

DOWNLOAD ON THE
App Store

GET IT ON
Google Play

DOWNLOAD APK 6.0+
Android





SANY Mobile Crane Industrial Park

No.168 Jinzhou Avenue, Jinzhou Development Zone, Changsha City, Hunan Province, P.R. China Zip 410600

SANY Crawler Crane Industrial Park

No. 2188 Daishan Road, Wuxing District, Huzhou City, Zhejiang Province, P. R. China Zip 313028

Consulting sanycrane@sanygroup.com (Crane BU) / crd@sany.com.cn (IHQ)

After-sales Service 0086-400 609 8318 (Overseas)

Reminder:

Any change in the technical parameters and configuration due to product modification or upgrade may occur without prior notice. The machine in the picture may include additional equipment. This brochure is for reference only, and goods in kind shall prevail.

Copyright at SANY. No part of this brochure may be copied or used for any purpose without written approval from SANY.

© Version 2026-01-13

三一轮式起重机产业园：中国湖南长沙金洲开发区金洲大道168号 邮编：410600

三一履带起重机产业园：中国浙江湖州市吴兴区黛山路2188号 邮编：313028

咨询：sanycrane@sanygroup.com(重起事业部) / crd@sany.com.cn(海外经营总部)

售后服务：0086-400 609 8318(海外)

温馨提示：

由于技术不断更新，技术参数及配置如有更改，恕不另行通知。图中机器可能包括附加设备，本画册仅供参考，以实物为准。

版权为三一所有，未经三一书面许可，本画册任何内容不得被复制用于任何目的。

© 2026年1月12日版



Contact SANY Group



Follow SANY Group