

SANY®

FORGING THE FUTURE TOGETHER

SPECIFICATION

BETTER WORLD, BETTER SANY CRANE



STC250C5-8

SANY TRUCK CRANE



25 t



41 m



49.5 m

■ www.sanyglobal.com

FORGING THE FUTURE TOGETHER

The parameters, pictures and standard/optional equipment are only for reference in this brochure, the actual machine is based on the effective price list and contract.

V1.3

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。

BETTER WORLD, BETTER SANY CRANE

SANY CRANE

QUALITY CHANGES THE WORLD

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Selling Point - Excellent Performance, New Generation Elliptical Cross-section 2.0

性能卓越 新一代椭圆截面2.0

New generation elliptical cross-section 2.0, with a 3% decrease in deflection and side bending, and the performance under high frequency working conditions is pioneered by 6%.

新一代椭圆截面2.0，挠度旁弯下降3%，高频工况领先6%。

Advance Control - i-EHC2.0 System

操控领先 i-EHC2.0系统

The second-generation electro-hydraulic system has three control modes: conventional, efficient, and micro motion, which users can choose according to their preferences and the lifting demands.

第二代电液复合系统，常规、高效、微动三种操控模式，用户随心选，吊载全覆盖。

Smart and Comfortable - i-Crane Smart Crane

智能舒适 i-Crane智能起重机

10.1-inch touch screen, high-precision force limit, remaining amplitude reminder, working condition recommendation, remote diagnosis. Ensuring more comfortable, intelligent, and safe operation.

10.1寸触摸屏、高精度力限器、剩余幅度提示、工况推荐、远程诊断，作业更舒适、更智能、更安全。



STC250C5-8

SANY TRUCK CRANE

Energy-saving and Lower Consumption - i-EC02.0 System

节能降耗i-EC02.0系统

Variable power pump and high-efficiency energy-saving module reduce fuel consumption by 10% during operation.

变功率泵、高效节能模块，作业油耗下降10%。

Self-adoption to Environment

环境自适应

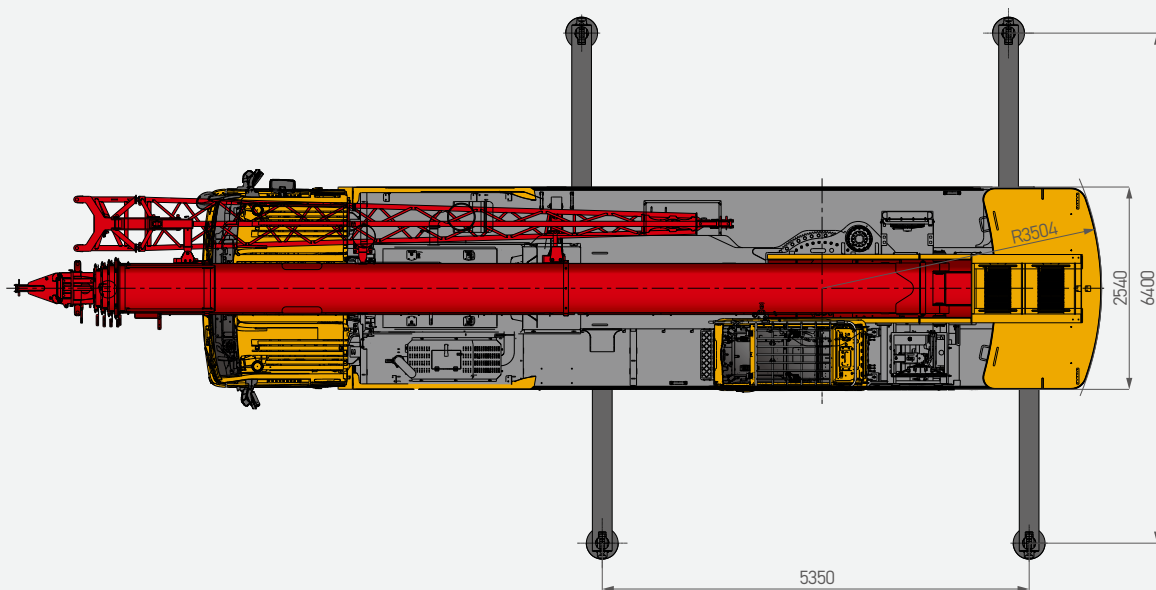
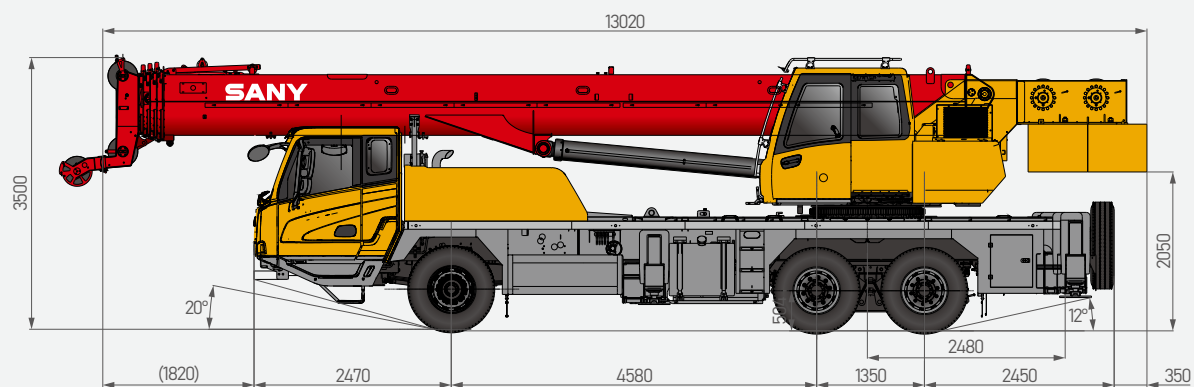
Pioneering the environment adaptive mode, it can intelligently recognize the engine operating environment, and the hydraulic system intelligently matches the engine power.

首创环境自适应模式，可智能识别发动机运行环境，液压系统智能匹配发动机功率。



Overall Dimensions

整机尺寸



Technical Specification

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	25
WEIGHT 重量参数	Gross weight 整机总质量	kg	31800
	Axle load 载荷Axles 1 一轴负荷	kg	6700
	Axles 2, 3 二、三轴负荷	kg	25100
POWER 发动机参数	Engine model 发动机型号(排放标准)	-	YCK08310 玉柴
	Max. engine power 发动机最大功率	kW/rpm	228/2200
	Max. engine torque 发动机最大输出扭矩	N·m/rpm	1280/1200~1700
DIMENSIONS 尺寸参数	Overall length 整机全长	mm	13020
	Overall width 整机全宽	mm	2550
	Overall height 整机全高	mm	3500
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
	Approach angle 接近角	°	≥20
	Departure angle 离去角	°	≥12
	Max. gradeability 最大爬坡度	-	44%
	Fuel consumption per 100km 每100公里油耗	L	30
MAIN PERFORMANCE 主要性能参数	Tail slewing radius 转台尾部回转半径	m	≤3.5
	Max. lifting moment 最大起重力矩	Basic boom 基本臂	kN·m1142
		Full-extension boom 全伸主臂	kN·m727
		Full-extension boom + jib 全伸主臂+副臂	kN·m390
	Boom length 臂长	Basic boom 基本臂	m10.7
		Full-extension boom 全伸主臂	m41
		Full-extension boom + jib 全伸主臂+副臂	m49
	Outrigger span (Longitudinal×Transverse) 支腿跨距(纵×横)		m6.4×5.35
	Jib offset 副臂安装角度		°0, 15, 30
AIRCONDITIONER 空调	In operator's cab 上车空调	-	Heating & cooling 制冷、制热
	In driver's cab 下车空调	-	Heating & cooling 制冷、制热

Technical Specification

整机参数


Axle Load 轴荷

Axle 轴	1	2	3	Gross weight 总重量
Axle load 轴荷 /t	6.7	12.55	12.55	31.8


Hook 吊钩

Rated load 额载 /t	Number of sheaves 滑轮数量	Rope rate 倍率	Hook weight/kg 吊钩重量
25 ●	4	8	250
3 ●	0	1	52

● Standard 标配 ○ Optional 选配


Operations 主要动作参数

Item 项目	Max.single rope lifting speed (empty load) 单绳速度 (空载)	Rope diameter/length 钢丝绳直径 / 长度	Max. single line pull 最大单绳拉力
Main winch 主卷扬	0~125m/min	Φ 14mm/180m	3.5t
Auxiliary winch 副卷扬	0~125m/min	Φ 14mm/105m	3.5t
Slewing speed 回转速度	0~2.6r/min		
Full luffing up/down time of boom 主臂起落幅时间	40s/60s		
Full extension/retraction time of boom 主臂伸缩时间	80s/105s		
Outrigger jack 垂直支腿	Extension 伸	25s	
	Retraction 缩	20s	
Outrigger beam 水平支腿	Extension 伸	25s	
	Retraction 缩	20s	

Crane 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

- Large section self-made frame.
- 大截面自制车架。

Axle 车桥

- With internal axle and wheel differential lock; The stamping—weld axle housing forming process has a stronger load-bearing capacity.
- 内置轴间、轮间差速；冲焊桥壳工艺，承载能力更强。

Chassis engine 底盘发动机

- Yuchai diesel engine, its emissions comply with Euro III standards.
- The effective volume of the metal fuel tank is 300L.
- 玉柴柴油发动机，排放符合欧三标准。
- 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

- 1st-axis hydraulic power assisted mechanical steering.
- 1轴液压助力机械转向。

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: 12R22.5, steel wire tire, with high load-bearing capacity and durability.
- 11(轮胎数)—轮胎规格: 12R22.5，钢丝胎，承载能力大，耐用。

Crane Introduction

整机介绍



Turntable 转台

- 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。
- 高精度力矩器，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

- Five-section rope-synchronized telescopic boom made of high-strength welded structural steel with an oval cross-section. An optional 8m jib is available.
- 5节绳排主臂，由高强度焊接结构钢制成，椭圆形截面，可选配8m副臂。



Slewing 回转系统

- 1250mm diameter slewing support, maximum slewing speed of 2.6r/min, which has stable operation, reliable system, and smooth braking.
- 1250mm直径回转支承，最大回转速度2.6r/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。

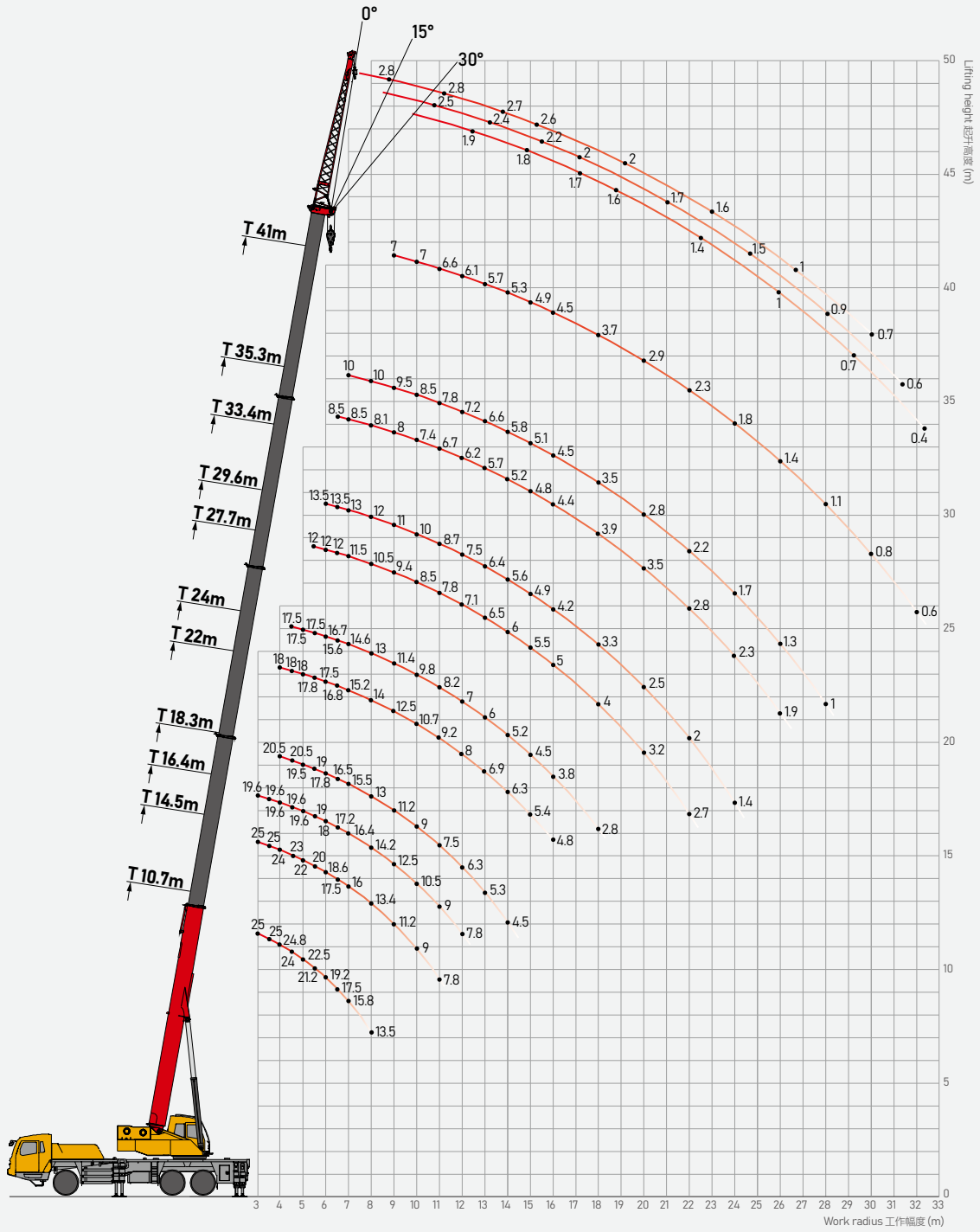


Counterweight 配重

- Standard 6.8T large counterweight.
- 标配6.8t大配重。

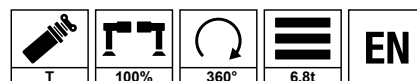
Operating Range - Telescopic Boom + Fixed Jib (TJ)

起升高度曲线 - 主臂 + 副臂



Load Chart - Telescopic Boom (T)

性能表 - 主臂



Unit: kg

	10.7	14.5	16.4	18.3	22.0	24.0	27.7	29.6	33.4	35.3	41.0	
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	17500						4.5
5.0	22500	22000	19600	19500	18000	17500						5.0
5.5	21200	20000	19000	19000	17800	17500	12000					5.5
6.0	19200	18600	18000	17800	17500	16500	12000	13500				6.0
6.5	17500	17500	17200	16500	16800	15600	12000	13500	8500			6.5
7.0	15800	16000	16400	15500	15200	14500	11500	13000	8500	10000		7.0
8.0	13500	13400	14200	13000	14000	12800	10500	12000	8100	10000		8.0
9.0		11200	12500	11200	12500	11500	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
	8	8	7	7	6	5	4	4	3	3	3	
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 - Telescopic Boom + Fixed Jib (TJ)

性能表 - 主臂 + 副臂








Unit: kg

		41m+8.0m			
		0°	15°	30°	
78.0		2800	2500	1900	78.0
75.0		2800	2400	1750	75.0
72.0		2700	2200	1700	72.0
70.0		2600	2000	1600	70.0
65.0		2000	1700	1350	65.0
60.0		1550	1450	1000	60.0
55.0		1000	900	700	55.0
50.0		650	550	400	50.0
		1	1	1	
	2#	100	100	100	2#
	3#	100	100	100	3#
	4#	100	100	100	4#
	5#	100	100	100	5#

- Notes:
- The given values in the lifting performance table are the rated lifting capacity of the crane when the entire machine is leveled on a flat and sturdy ground.
 - The working range in the lifting performance table refers to the actual range after lifting.
 - The decision of rated load value that was determined by stability in the lifting performance table follows ISO4305.
 - The rated lifting capacity in the lifting performance table includes the weight of the lifting hook and lifting equipment.
 - When the fifth outrigger is opened, the values in the table are applicable to all directions (360°) operation.
 - When using the auxiliary boom nose, the rated lifting capacity should not exceed 4500kg. If the jib is in the extension state, the rated lifting capacity of the boom should be reduced by 500kg.
 - If the actual boom length and amplitude are between two values, take the rated lifting capacity determined by the longer boom length and larger range to handle lifting operations.

- 备注:
- 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。
 - 起重性能表中工作幅度是指吊载后的实际幅度。
 - 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。
 - 起重性能表中额定起重量包括起重钩和吊具的重量。
 - 打开好第五支腿时，表中数值适用于全方位(360°)作业。
 - 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。
 - 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



Crane control
操纵方式



Hoist
起升机构



Suspension system
悬挂



Steering
转向



Tires
轮胎



Wheel formula
轮胎模式



Brake
制动



Electrical system
电气系统



Hydraulic system
液压系统



Slewing mechanism
回转机构



Safety equipment
安全装置



Load moment indicator
力矩限制器



Counterweight
配重



Boom & telescoping system
主臂



Auxiliary boom nose
臂尖滑轮



Boom extension
主臂延伸臂



Auxiliary jib
鹅头臂



CW rearward positioned
配重后移



Rear storage box
尾部储物箱



SANY GROUP CRANE BU

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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.

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