

**SANY**<sup>®</sup>

# SPECIFICATION



110t



51m



69.5m

# SRC1100T5

SANY ROUGH TERRAIN CRANE

QUALITY CHANGES THE WORLD

[www.sanyglobal.com](http://www.sanyglobal.com)

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



# SRC1100T5

SANY ROUGH TERRAIN CRANE  
110T LIFTING CAPACITY

An 110t rough terrain crane with 5 section 51m boom, featuring stronger lifting capacity. Key components come from name brands of reliable quality. Operator comfort is improved by brand new cab design.

一款最大起重量110吨，5节臂，全伸臂长51m的越野起重机，性能强，核心部件均为国际知名供应商提供，配备全新操纵室，驾驶、操作舒适度全面升级。





## **Strong lifting capacity**

超强性能

## **All new operator's cab**

Ergonomic concept of safety and comfort

全新操纵室

操作安全、舒适、人机工程全面升级

## **Convenient transport**

One-trailer transport at low operational cost

超便捷运输

一车整运，运营成本低

## **Brand-name components**

DF Cummins engine/Dana transmission

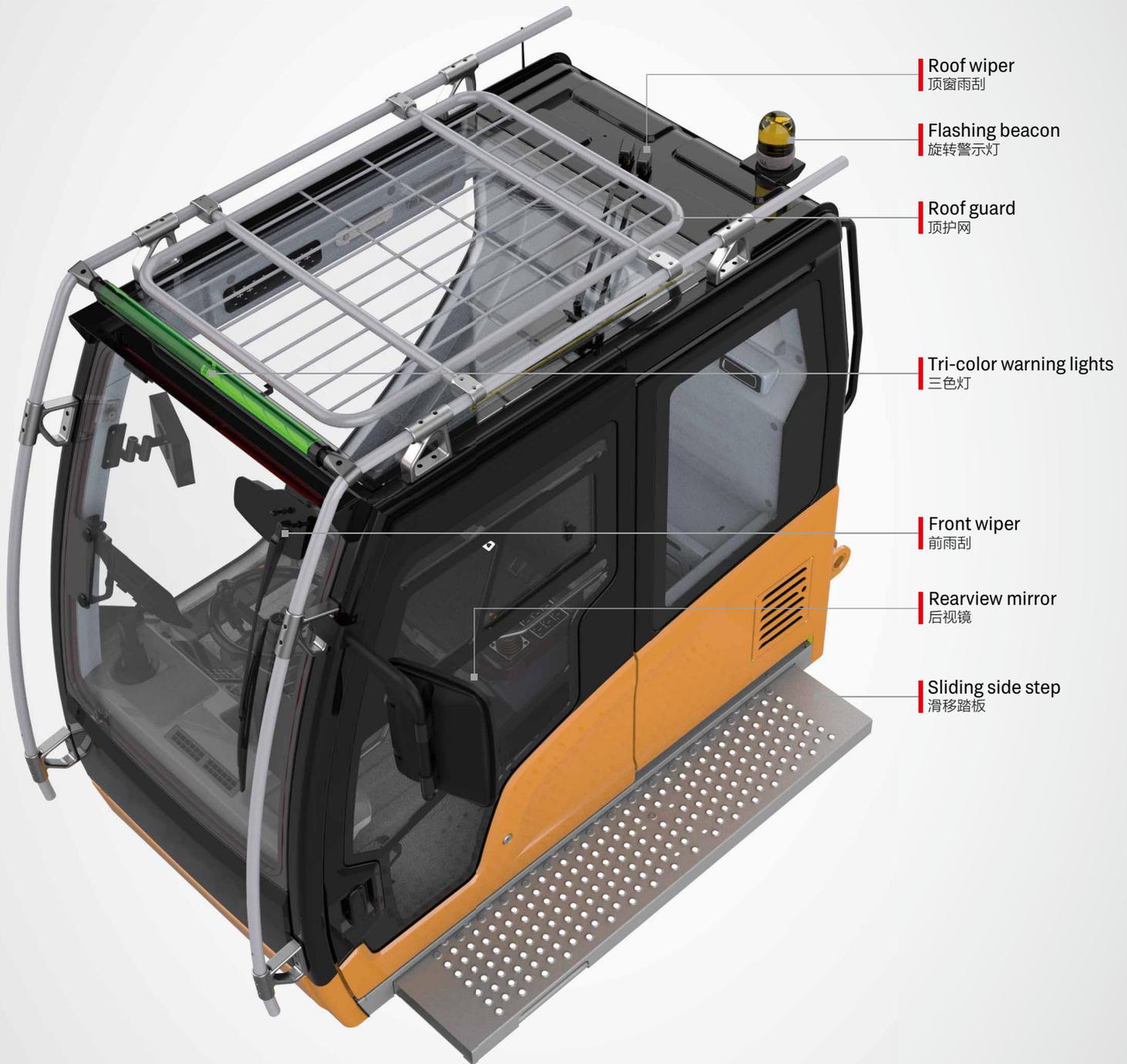
国际知名供应商

东风康明斯发动机/德纳变速箱



# All New Operator's Cab

## 全新操纵室



Roof wiper  
顶窗雨刮

Flashing beacon  
旋转警示灯

Roof guard  
顶护网

Tri-color warning lights  
三色灯

Front wiper  
前雨刮

Rearview mirror  
后视镜

Sliding side step  
滑移踏板



**Safety & Reliability**  
安全可靠



**Comfort & Convenience**  
舒适便捷



**Simplicity & Efficiency**  
简单高效

## SPECIFICATION

Rearview and  
winch monitor  
卷扬监视器

10.1 inch LMI screen  
10.1 吋显示屏

Outrigger control  
panel  
支腿控制面板

Steering column  
方向柱

Pedals  
踏板布置

Upper control panel  
辅助面板

Emergency stop  
switch  
急停开关

Bubble level  
水平仪

Cup holder  
水杯托

Joystick  
手柄

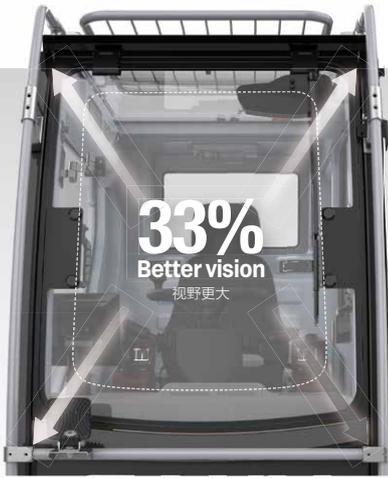
Joystick  
手柄

Left control panel  
左扶手箱控制面板

Right control panel &  
LMI navigation knob  
右扶手箱控制面板

Armrest  
扶手箱

SANY



Integrating SUV genes, overall space is enlarged by 10% and forward field of vision is increased by 33%. The front windshield can be opened by 70 degrees, providing better ventilation and a second emergency exit.

融入 SUV 基因, 整体空间增大 10%, 配备超大可开合 70° 前挡风玻璃, 视野提升 33%, 增加空气对流, 并可作为快速逃生通道。



Sliding door transits between tracks when closing to make perfect thermal and acoustical insulation.  
侧向变轨, 滑移门完美隔绝外部环境。

Getting in and out is made more convenient with the power sliding side step.  
全宽电动伸缩踏板, 超大安全便利进出通道。

## SPECIFICATION

**Adjustable** steering wheel for driving and controlling, modular control panels, and smart user interface deliver intuitive and highly efficient control.

驾控一体的方向盘、模块化控制面板、UI 智能操作界面，操作简单，为高效吊装保驾护航。

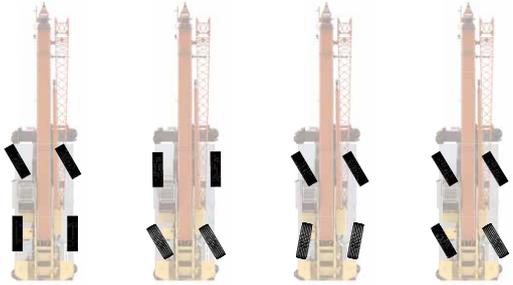


# Convenient Transport

行驶运输便捷性

## Four steering modes

四种转向模型



2 wheel front 前轮转向模式

2 wheel rear 后轮转向模式

4 wheel 四轮转向模式

Crab 蟹行模式



Steering control panel  
转向控制面板

## One-Trailer Transport

一车整运

The basic machine is transported without counterweight at 46.5t, 3.34m wide and 3.93m high, satisfying road regulations. The weight with counterweight, jib, and hooks onboard is 60t.

主机运输尺寸为宽 3.34m, 高 3.93m, 重量为 60t (带配重、副臂和吊钩), 拆配重后 46.5t, 满足道路运输要求。



## Axle Load Distribution

轴荷分布

Items 项目	Weight (kg) 重量	Load on front axle (kg) 前轴轴荷	Load on rear axle (kg) 后轴轴荷
Basic machine 主机	60000	33000	27000
Counterweight 配重	13500	-4400	17900
Fixed jib 副臂	1100	2570	-1470
Aux. boom nose 臂尖滑轮	50	160	-110
Main hook 主钩	70t	690	-870
Auxiliary hook 副钩	8t	160	-40

Note: boom angle remains 0°  
起重臂角度 0°

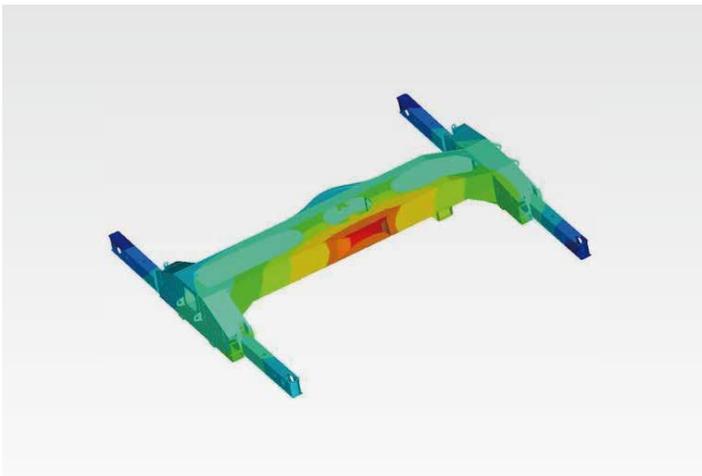
# Carrier Frame

车架底盘



Inverted trapezoidal variable cross section frame is 5% less in weight and 10% stronger in rigidity.

倒梯形变截面车架, 实现车架减重 5% 的同时, 刚性提升 10%。

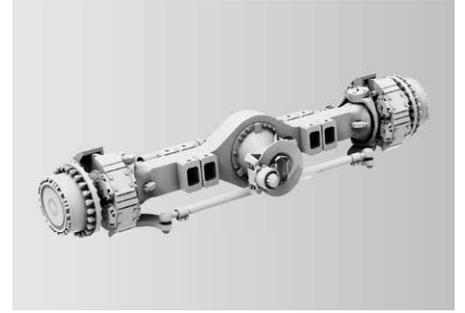
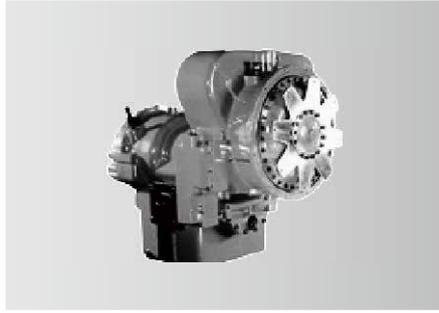
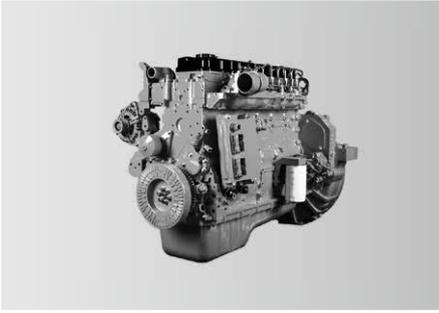


↓ **5%**  
Weight 重量

↑ **10%**  
Rigidity 刚性

# Power Train

## 动力系统



### Engine

Power comes from a DF Cummins QSB6.7 inline six-cylinder water-cooled, turbocharged and intercooled off-highway diesel engine, complying with Stage III emission standard.  
Rated power: 194kW/2400rpm.  
Max. torque: 990N·m/1500rpm.

### 发动机

东风康明斯 QSB6.7 三阶段非道路直列六缸水冷、增压中冷柴油发动机。  
额定功率 :194kW/2400rpm。  
最大扭矩 :990N·m/1500rpm。

### Transmission

Dana electronically controlled auto transmission features 6 speeds forward and 6 speeds reverse, wide ratio range, and smooth gearshift with reduced maintenance cost.

### 变速箱

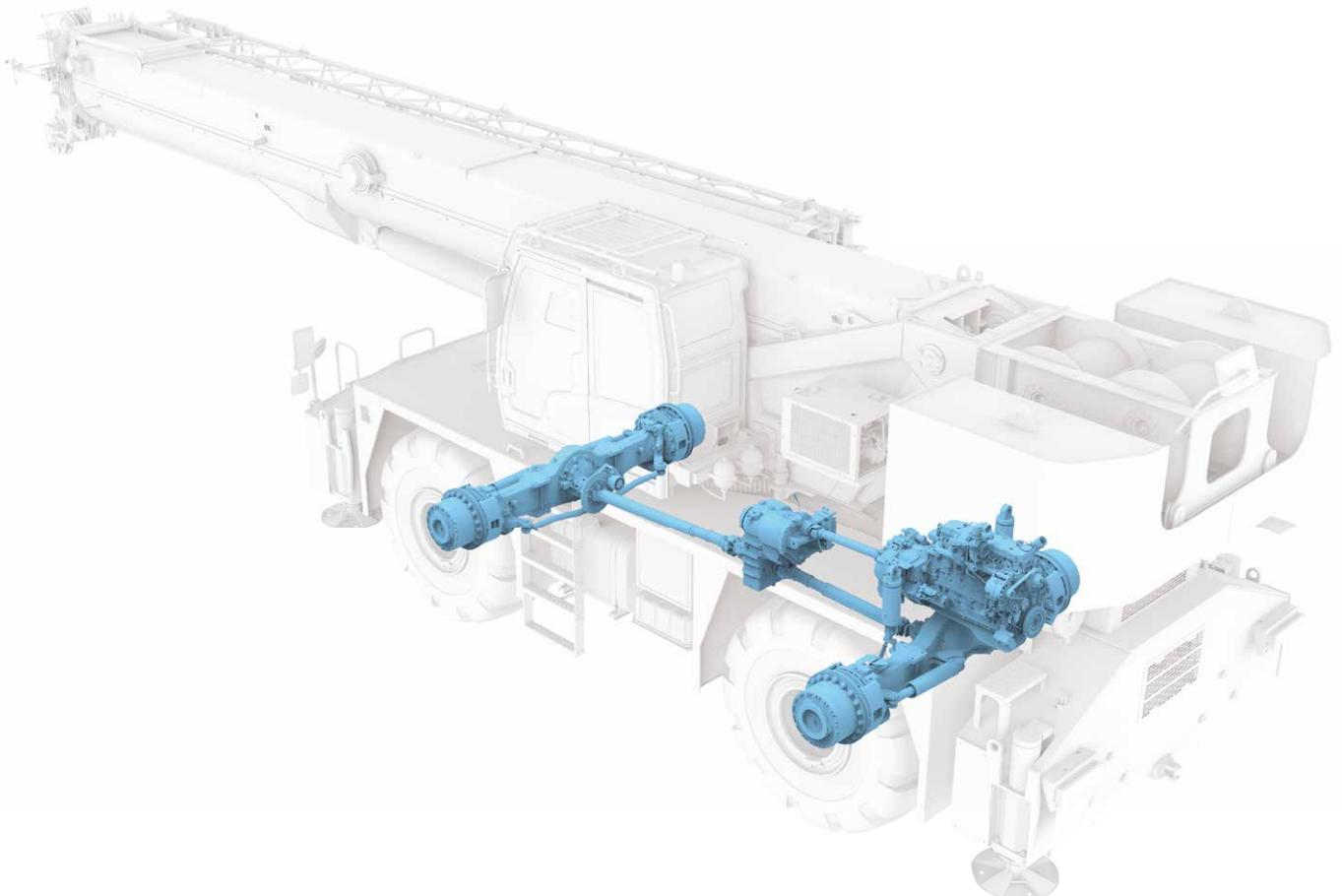
德纳全自动电控变速箱,6个前进挡、6个后退挡,速比范围大,换挡平顺无冲击,维修保养成本低。

### Axle and suspension

Both axles are driven and steered. Front axle is mounted to the frame by independent steel plate, and rear adopts oscillation cylinders with hydraulic lockout. Driving comfort and lateral stability is therefore guaranteed on rough terrains and conditions.

### 车桥悬挂

前后桥均为驱动桥和转向桥。前桥采用独立式钢板连接,后桥采用摆动支架式,液压油缸闭锁悬架系统;能适用各种恶劣工况和路面,保证车辆行驶的平顺性和侧翻稳定性,驾驶舒适。



# Electrical System

## 电气系统

### Smart CAN-BUS communication system

International advanced CAN-BUS data communication network applied for display, instrument panel, I/O module, joysticks and main sensors, allowing for high-speed data transmission and quick response in less than 20ms.

### Winch camera (optional)

Winch cameras equipped for monitoring its working condition and identifying rope disorder in time.

### Integrated bus button panel input

Various operating states displayed by button indicator lights, and one-button multi-functional operation realizable by writing various operation modes.

### 智能总线通信系统

国际先进的分布式集成总线数据通信网络，显示器、显示仪表、I/O 模块、操作手柄、主要传感器等采用 CAN 总线组网，高速信息传输、响应速度小于 20ms。

### 卷扬监控系统(选配)

卷扬摄像头监视卷扬工作及及时发现乱绳的情况。

### 集成总线按键面板输入

可通过按键指示灯显示各种工作状态，通过写入多种操作模式实现一键多功能。



Centralized electric cabinet  
集中式电控箱



Anti-two-block switch  
高度限位器



Third wrap indicator  
三圈保护器



Cable reel  
电缆卷筒



Anemometer  
风速仪

**Multi-functional screen**

Large 10.1 inch HD touch screen display with all new interface. Incorporated crane setup, load charts, working conditions, working period, virtual wall, Bluetooth, radio and diagnostics with an additional navigation knob.

**Precise load moment indicator**

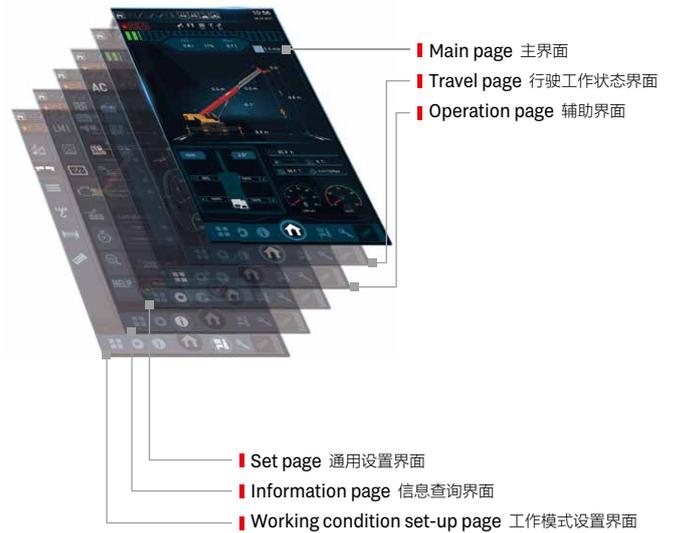
SANY independently developed LMI, accuracy of 0 ~ 5%.

**高新多功能显示屏**

采用 10.1 寸高清显示屏, 全新操作界面, 可实现触摸与旋钮多种方式操控。工况、力矩、发动机、变速箱、控制器 IO 点、工作时间统计等丰富的设备状态信息呈现, 集成虚拟墙、蓝牙、收音机等多种扩展功能。

**精准力矩器系统**

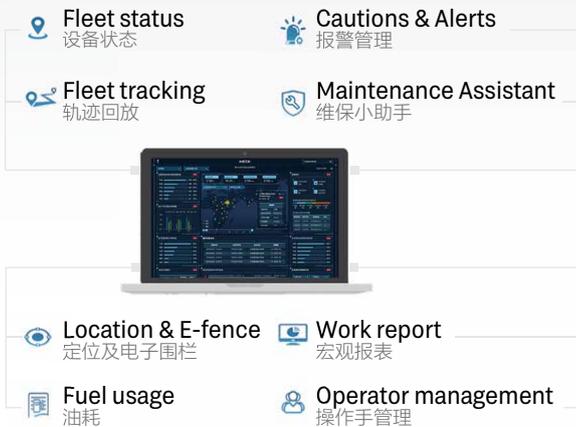
三一自主研发的力矩限制器系统, 精度达 0~5%。



**MachineLink<sup>+</sup>**

ROOTCLOUD T-AMS Pro device comes as standard to realize GPS trajectory, machine status, maintenance management, E-fence, alarm management, and operator management on computer or mobile MachineLink+ platform, by remote control of cranes. This telematics package greatly boosts efficiency of customer fleet management and helps provide better after-sales services.

标配树根物联终端 T-AMS Pro, 通过对起重机设备的远程控制, 在电脑或移动端 MachineLink+ 平台实现轨迹回放、设备状态、维保设备、电子围栏、报警管理、操作手管理等功能, 极大提高客户设备管理效率, 提升三一售后服务能力。



## Hydraulic System

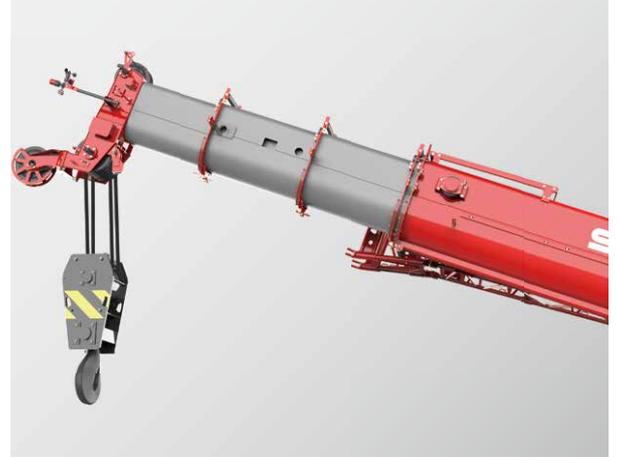
### 液压系统

Four boom sections extended by double cylinder with rope arranger, 2nd boom extended by cylinder I, 3rd ~5th sections telescoped by cylinder II with rope pull. Synchronized telescoping of variable lengths for more applications with higher efficiency.

5 节主臂, 双缸绳排, 1 号油缸伸 2 节臂, 2 号油缸和钢丝绳伸 3、4、5 节臂, 可实现同步伸缩, 臂长任意组合, 省时省力。



Telescoping mode I  
伸缩模式 I



Telescoping mode II  
伸缩模式 II

## Superstructure

### 上车

Open-type electronically controlled load-sensing system and dynamic slewing brake system.

Electro proportional compensated passive luffing-down system applied to control the luffing speed, making luffing more reliable and stable.

Dynamic slewing brake realizing precise control of slewing speed.

Electronically controlled load-sensing hydraulic system, electronic joystick and electronic throttle, ensuring easy operation and more accurate control and millisecond-level action response speed, with min. single-rope hoisting speed 0.8m/min, and distribution difference in case of combined motions 8%.

通过开式电控负载敏感系统和动态回转制动系统；

电比例自重落幅系统控制落幅速度, 更可靠更平稳；

具备动态回转制动功能, 可实现回转速度精准控制；

电控负载敏感液压系统, 采用电手柄、电油门控制, 轻松操作的同时, 控制更精准；动作响应毫秒级速度；卷扬单绳最低速度 0.8m/min；复合动作分配误差 8%。

# Chassis

## 下车

### Steering system

A gear pump installed to supply oil for hydraulic steering, steering pressure controlled by electro-proportional relief valve, four steering modes realized by solenoid directional valve.

### Suspension system

Different modes including normal driving and Pick & Carry with suspension locked, suspension to be locked when the crane is working.

### Outrigger telescoping system

The electro proportional relief valve identifies pressure staging of outrigger telescoping, satisfying operation requirements under high pressure and forming protection under limited pressure.

### 转向系统

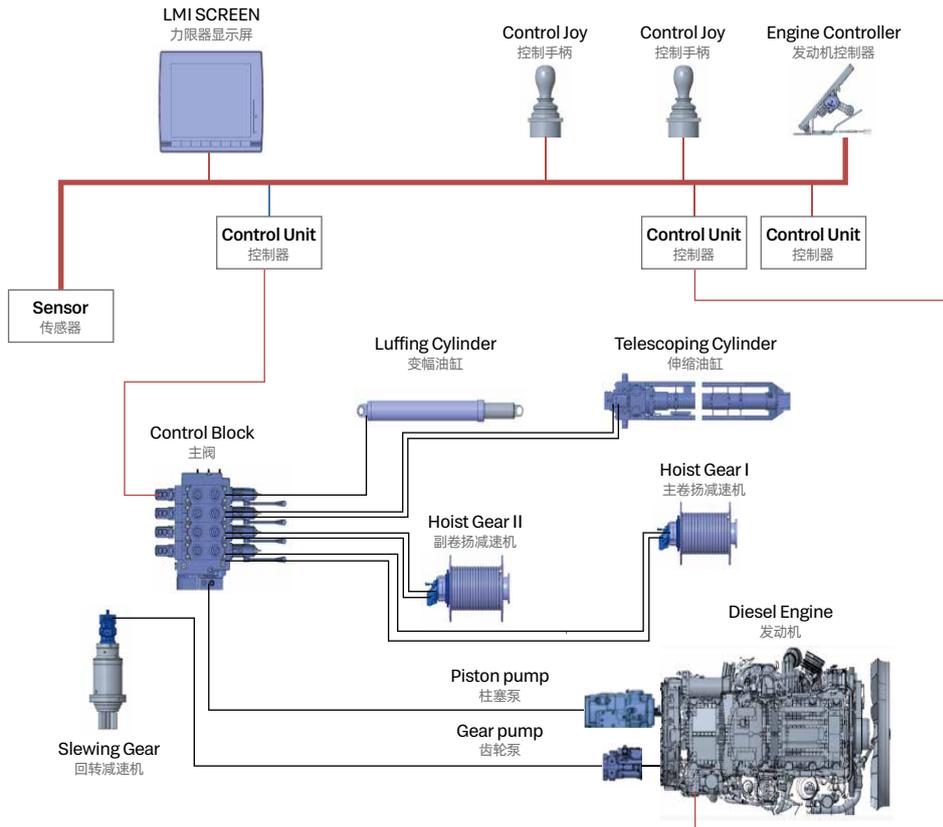
液压转向系统采用齿轮泵提供油源,通过电比例溢流阀精确控制转向压力,通过电磁换向阀实现前轮转向,后轮转向,全轮转向和蟹行转向共计四种转向模式。

### 悬挂系统

悬挂系统通过选择不同的悬挂模式可以实现正常行驶和锁定模式下的带载行驶;在起重机上车作业时能够对悬挂进行锁定。

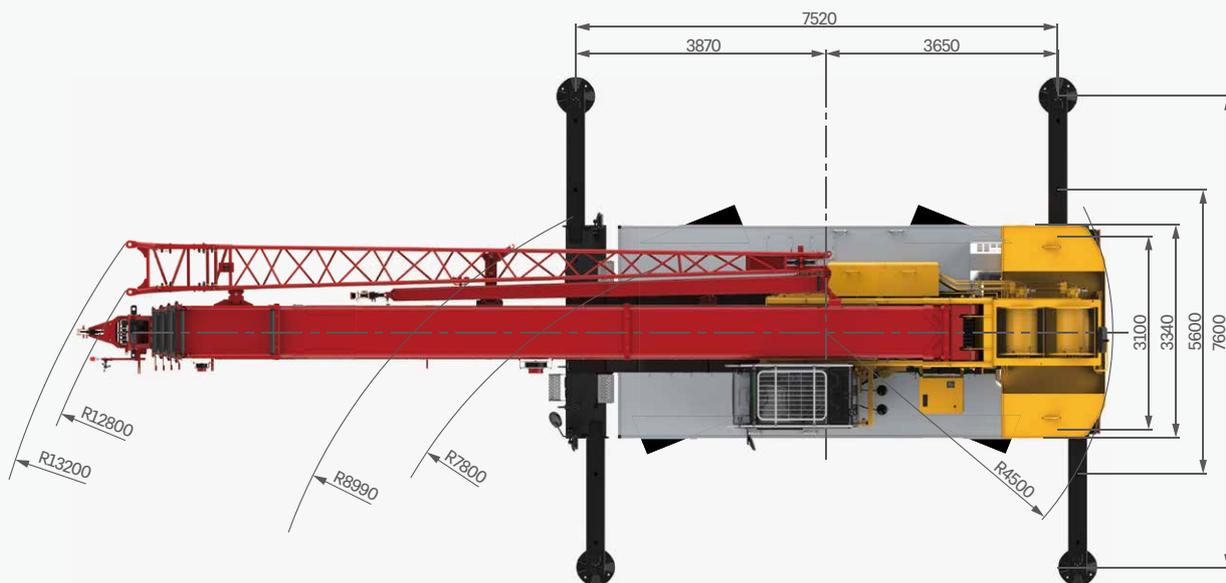
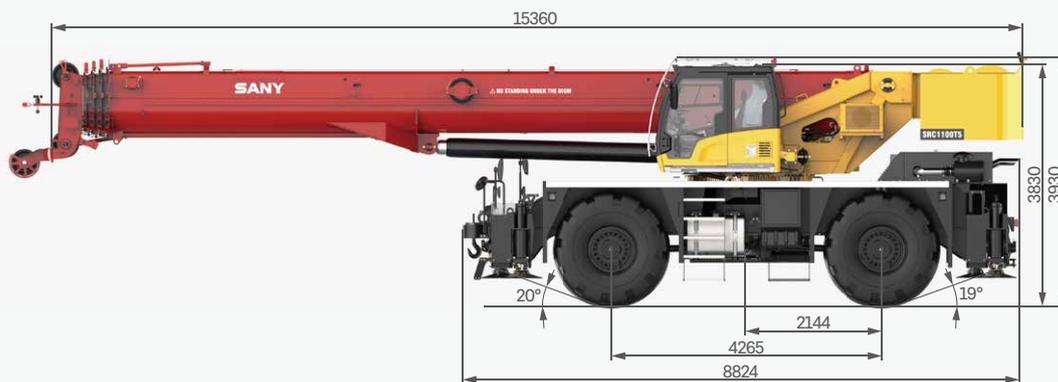
### 支腿伸缩系统

支腿伸缩采用电比例溢流阀对支腿伸缩进行压力分级,既满足高压力动作需求,也可满足限压保护功能。



# 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	110	
WEIGHT 重量参数	Gross weight 整机总质量	kg	60000	
POWER 发动机参数	Engine model 发动机型号 (排放标准)	-	QSB6.7 (Stage III)	
	Max. engine power 发动机最大功率	kW/rpm	194/2400	
	Max. engine torque 发动机最大输出扭矩	N·m/rpm	990/1500	
DIMENSIONS 尺寸参数	Overall length 整机全长	mm	15360	
	Overall width 整机全宽	mm	3340	
	Overall height 整机全高	mm	3930	
TRAVEL 行驶参数	Max. travel speed 最高行驶速度	km/h	25	
	Steering radius 转弯半径	Min.steering radius 最小转弯半径	m	14.2/7.8
		Min.steering radius of boom tip 臂头最小转弯半径	m	13.2
	Wheel formula 车轮模式	-	4 × 2, 4 × 4	
	Min.ground clearance 最小离地间隙	mm	530	
	Approach angle 接近角	°	20	
	Departure angle 离去角	°	19	
	Max.gradeability 最大爬坡度	-	75%	
	Fuel consumption per 100km 每 100 公里油耗	L	120	
	MAIN PERFORMANCE 主要性能参数	Working temperature range 使用温度区间	°C	-20~+51
Min.rated lifting radius 最小额定幅度		m	2.5	
Tail slewing radius 转台尾部回转半径		m	4.5	
Boom sections (Qty.) 臂节数		-	5	
Boom shape 臂形状		-	U shape U 型	
Max.lifting moment 最大起重力矩		Basic boom 基本臂	kN·m	3380
		Full-extension boom 全伸主臂	kN·m	1740
		Full-extension boom + jib 全伸主臂 + 副臂	kN·m	563
Boom length 臂长		Basic boom 基本臂	m	13
		Full-extension boom 全伸主臂	m	51
		Full-extension boom + jib 全伸主臂 + 副臂	m	69
Max.lifting height 最大起重高度		Basic boom 基本臂	m	13.5
		Full-extension boom 全伸主臂	m	51.5
		Full-extension boom + jib 全伸主臂 + 副臂	m	69.5
Outrigger span (Longitudinal × Transverse) 支腿跨距 (纵 × 横)	m	7.52 × 7.6		
Jib offset 副臂安装角度	°	0, 20, 40		
AIRCONDITIONER 空调	In operator's cab 上车空调	-	Heating & cooling 制冷、制热	

# Technical Specification

## 整机参数



### Axle Load 轴荷

Axle 轴	1	2	Gross weight 总重量
Axle load 轴荷 /kg	33000	27000	60000
Remark 备注	Boom angle 0°, with full water and fuel reservoirs, main hook, aux hook. 起重臂角度 0°、满水、满油、主钩、副钩		



### 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
100 ○	7	14	1030
90 ○	6	12	830
70 ●	5	10	690
50 ○	4	8	595
8 ●	-	1	160

● 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	150m/min	20mm/300m	8.3t
Auxiliary winch 副卷扬	150m/min	20mm/165m	8.3t
Slewing speed 回转速度	1.8r/min		
Full luffing up/down time of boom 主臂起落幅时间	70s/72s		
Full extension/retraction time of boom 主臂伸缩时间	125s/135s		
Outrigger jack 垂直支腿	Retraction 缩	32s	
	Extension 伸	30s	
Outrigger beam 水平支腿	Retraction 缩	15s	
	Extension 伸	20s	

# Crane Introduction

## 整机介绍

Carrier 下车

### Carrier frame 车架

- Double longitudinal beam construction welded by high strength steel plate, higher bearing capacity.
- 车架为高强度钢板焊接而成的双纵梁结构，承载能力强。

### Engine 发动机

- Model: DF Cummins QSB6.7 inline six-cylinder diesel engine with watercooler and inter cooler.
- Rate power: 194kW/2400rpm.
- Emission standard: Stage III.
- Fuel reservoir capacity: 350L.
- 型号：东风康明斯 QSB6.7 直列六缸、水冷却、增压中冷、柴油发动机。
- 额定功率：194kW/2400rpm。
- 排放标准：符合 III 阶段。
- 油箱容积：350L。

### Transmission 变速箱

- Auto-transmission, 6 forward gears and 6 reverse gears, large speed ratio range, adaptable to slope climbing and high-speed traveling.
- 自动变速箱，变速箱有 6 个前进档、6 个后退档，速比范围大，即可满足低速场地爬坡行驶又可满足高速行驶。

### Axle 车桥

- Two axle chassis of flexible maneuverability, four-wheel drive, excellent dynamic performance.
- 操控灵活，底盘两桥设计，前、后桥驱动，动力性能好。

### Suspension system 悬挂

- The front is rigidly mounted, and the rear axle adopts pivot oscillation suspension with hydraulic lockout.
- 前桥刚性连接，后桥带油缸锁定枢轴摆动悬挂。

### Tires 轮胎

- Large diameter 34PR off-road 29.5-25 tires deliver large ground clearance and strong off-road agility.
- 大直径 34 层级越野轮胎，离地间距大，越野性能强，轮胎型号 29.5-25。

### Braking 制动系统

- Dual circuit braking system. When one circuit fails, the other can still work normally, improving the safety and reliability of the braking system.
- 双回路制动系统，当某一回路出现故障时，另一回路仍能正常工作，提高制动系统的安全性和可靠性。

### Hydraulics 液压系统

- Adopt stable and high-quality main oil pump, enhancing system reliability. Precise parameter matching contributes to superior controllability of the vehicle.
- 采用稳定、高品质的主油泵，系统可靠性高；通过精确的参数匹配，操控性能优越。

### Outrigger 支腿

- H-type telescoping outrigger, 4-point support, with span (longitudinal × transverse) 7.52m × 7.6m.
- 采用 H 形伸缩支腿，4 点支撑，纵、横跨距 7.52m × 7.6m。

### Control system 控制系统

- CAN-BUS: The bus instrument of integrated intelligent control electrical system can display driving parameters at any time, making driving easier. At the same time, engine failure prompt makes the maintenance and troubleshooting more convenient and faster.
- All-round safety protection, the main and auxiliary hoists are equipped with three-circle indicators and A2B switches to prevent over-hoist-down and over winding of the wire ropes.
- Load moment indicator: It adopts highly intelligent moment indicator system to fully protect lifting operation and ensure accuracy, stability and comfort.
- 总线仪表：采用集成一体智能控制电气系统的总线仪表，可随时掌控行驾参数，驾乘轻松；同时拥有发动机故障提示功能，维修排故方便、快捷。
- 全方位的安全保护系统，主、副卷扬配置三圈保护器和高度限位器，防止钢丝绳过放和过卷，防倾翻保护，极限角度保护。
- 力 limiter：采用高度智能力矩限制器系统，全方位保护吊载作业，确保操作精准、平稳、舒适。

# Crane Introduction

## 整机介绍

### Operator's cab 操纵室

- New generation T-series operator's cab features curved-rail sliding door, safety glass and corrosion resistant steel construction with softened interior trim. Large internal space with panoramic skylight, adjustable seat and other user-friendly design incl. A/C, electric wiper, making it more comfortable and easier to work. The LMI screen is equipped to realize the logic integration of the control console and the display, so that all working data can be seen at a glance.
- 全新一代 T 系列操纵室，带变轨滑移门，配备安全玻璃，耐腐蚀钢板，配置软化内饰、超大内部空间、可调式座椅等人性化设计，配有空调、电动雨刮器，操作更舒适、轻松；配置力矩限制器显示屏，实现主控台与操作显示系统有机结合，使吊装作业的全部工况数据一目了然。

### Boom system 臂架系统

- Boom: Five-section, basic boom 13m, full-extension 51m, made of high-strength welded structural steel with U-shape cross-section.
- Jib: Two-section, 10.5m / 18m, offset at 0°, 20°, 40°.
- 主臂：五节臂，基本臂 13m，全伸臂 51m，由高强度焊接结构钢制成，U 形截面。
- 副臂：两节副臂，分别为 10.5m 和 18m，安装角度为 0°，20°，40°。

### Slewing platform 转台结构

- SANY independently developed, made of fine grain high strength steel in optimized structure.
- 三一自主设计，结构更优化，由细晶粒高强度钢制成。

### Hydraulics 液压系统

- Load sensing variable piston pump can adjust displacement in real time to achieve high precision flow control, greatly reducing energy loss.
- Winch adopts electronically controlled variable motor with high operation efficiency. Max. single rope speed of main and auxiliary winch is 150m/min.
- Slewing system integrating slewing buffer and free swing technology, start & brake process is smoother and the inching motion performance is ever better.
- 采用负载敏感变量柱塞泵，能实时调节油泵排量，实现高精度的流量控制，极大的降低能量损耗。
- 卷扬采用电控变量马达，作业效率高；主、副卷扬单绳速度最大达 150m/min。
- 回转系统带集成回转缓冲阀，具有自由滑转功能，回转启动和控制平稳，微动性卓越。

### Hoist 起升机构

- Pump and motor double variable speed regulation, highly efficient and energy saving. Balance valve and unique anti-hook-slip technology are perfectly coupled to achieve smooth rise and fall of the load. Nonrotation high strength wire rope is used.
- 泵、马达双变量调速，高效节能。卷扬平衡阀与独特的防溜钩技术完美结合，重物起落平稳。配备防旋转高强度钢丝绳。

### Luffing system 变幅系统

- Double acting single rod hydraulic cylinder with balance valve, luffing angle: -2°~ 80°. Passive luffing down.
- 双作用单活杆液压缸，带安全平衡阀，变幅角度：-2°~80°，采用自重落幅系统。

### Slewing 回转系统

- 360° slewing in both directions, max. speed 1.8r/min, hydro speed control. The unique slewing balance design makes the braking smoother.
- 360° 转动，最大回转速度 1.8r/min。液控比例调速控制。独特的回转缓冲设计，制动更平稳。

### Counterweight 配重

- Fixed block 13.5t.
- 固定配重 13.5t。

### Safety equipment 安全装置

- Load moment indicator: Analytical mechanics is applied and moment limiter calculation system based on the hoisting mechanics model is established. Through online empty-load calibration, the rated accuracy can reach 0-5% to fully protect the hoisting operation. In case of overload, the system will automatically give an alarm to guarantee safety operation.
- The hydraulic system includes balance valve, relief valve, two-way holding valve, etc. to realize system stability and reliability.
- The main and auxiliary winches are equipped with third-wrap indicators to prevent over-hoist-down of the wire rope.
- Boom head and jib head are equipped with A2B switches to prevent the wire rope from over winding.
- The length & angle sensor and pressure sensor are equipped to signify working status in real time, automatically stopping hazardous actions with buzzer alarm.
- 力矩限制器：采用分析力学方法，建立了基于吊重力学模型的力矩限制器计算系统，通过在线空载标定，额定吊重精度达到 0-5%，全方位保护吊载作业；超载作业时，系统自动报警提示，为操纵作业提供安全保障。
- 液压系统配置平衡阀、溢流阀、双向液压锁等元件，实现液压系统稳定可靠。
- 主、副卷扬配置三圈保护器，防止钢丝绳过放。
- 主、副臂端配置高度限位器，防止钢丝绳过卷。
- 配置长度角度传感器、压力传感器，实时显示起重机作业状态，自动切断危险动作，蜂鸣报警。

### Optional equipment at extra fees 选配

- Specialized tires for desert traveling / Winch camera / Boom tip camera / Reversing image / 100t hook block / 90t hook block / 50t hook block / Spark arrester / Air intake shutoff valve / Outtrigger pad.
- 沙漠胎 / 卷扬摄像头 / 臂尖摄像头 / 倒车影像 / 100t 吊钩 / 90t 吊钩 / 50t 吊钩 / 火星灭火器 / 发动机进气关断阀 / 支腿垫板。

# Working Conditions

工况组合



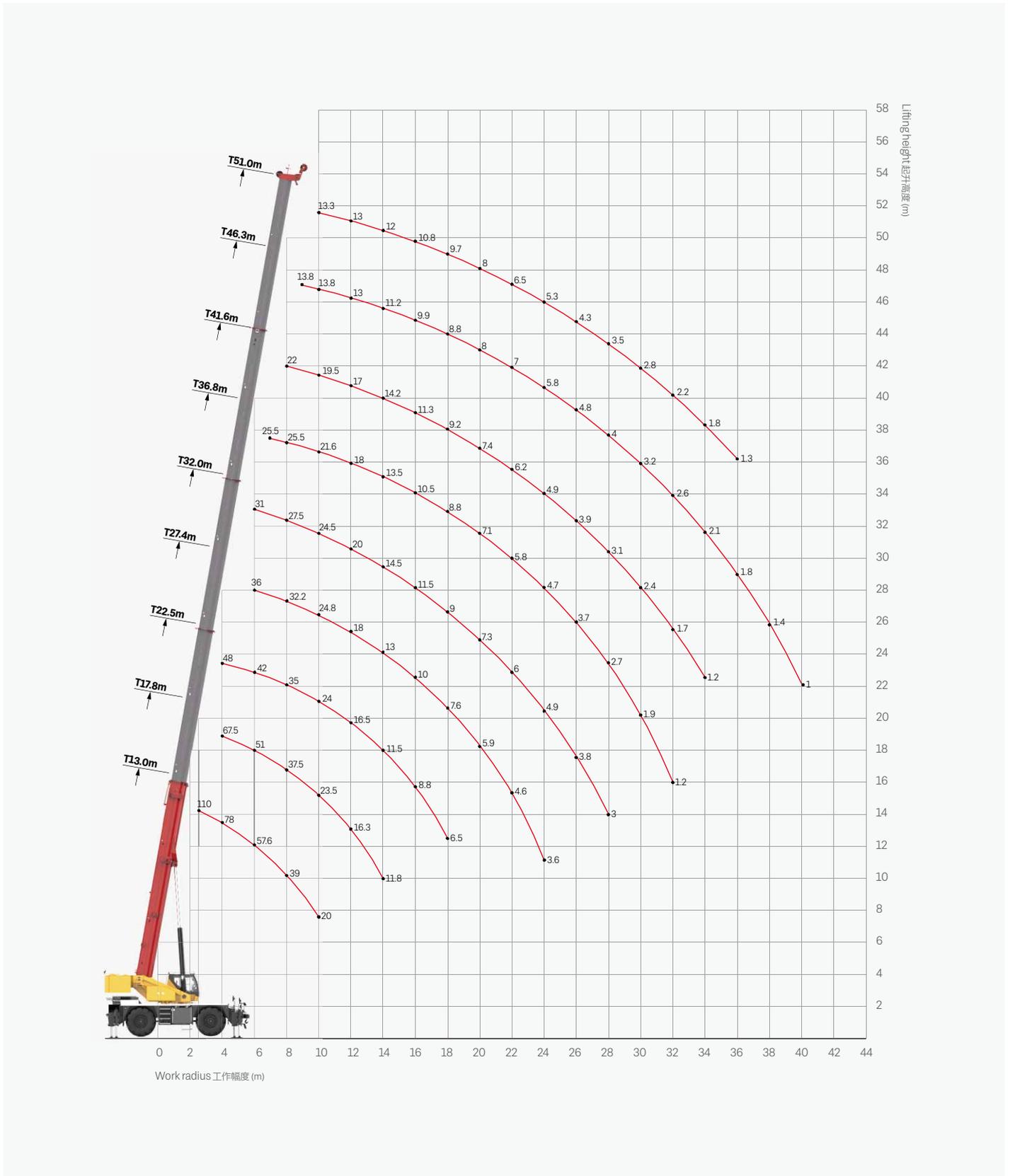
Telescopic boom on outriggers  
主臂、支腿吊载

Fixed jib on outriggers  
固定副臂、支腿吊载

Telescopic boom on tires  
主臂、轮胎吊载

# Operating Range - Telescopic Boom

## 起升高度曲线 - 主臂



# Load Chart-Telescopic Boom

## 性能表-主臂

Unit: kg



 m	13m	17.8m	17.9m	22.6m	22.4m	22.5m	27.2m	27.3m	27.4m	32m	 m
2.5	110000*										2.5
3.0	100000*	67500	37000								3.0
3.5	85000	67500	37000	36500	35000	48000					3.5
4.0	78000	67500	37000	36500	35000	48000					4.0
4.5	72000	64500	37000	36500	35000	48000	34000	31500	36000		4.5
5.0	68000	59500	37000	36500	35000	47000	34000	31500	36000		5.0
5.5	62500	55000	37000	36500	35000	44500	34000	31000	36000	31000	5.5
6.0	57600	51000	36500	36000	33000	42000	33000	30000	36000	31000	6.0
7.0	48500	44000	34500	34000	32000	39000	32000	28000	35200	29500	7.0
8.0	39000	37500	32600	33000	30000	35000	31000	26500	32200	27500	8.0
9.0	30000	28000	30500	29000	28000	29500	29500	24500	28700	26000	9.0
10.0	20000	23500	27000	25000	26000	24000	26000	23000	24800	24500	10.0
11.0		20500	22500	21500	23000	19500	22000	21000	20500	23000	11.0
12.0		16300	18600	18000	19500	16500	18500	18500	18000	20000	12.0
14.0		11800	14500	13000	14600	11500	13500	15300	13000	14500	14.0
16.0				10000	11500	8800	10700	11800	10000	11500	16.0
18.0				8000	9000	6500	8500	9800	7600	9000	18.0
20.0							6700	8100	5900	7300	20.0
22.0							5500	6600	4600	6000	22.0
24.0							4500	5500	3600	4900	24.0
26.0										3800	26.0
28.0										3000	28.0
30.0											30.0
32.0											32.0
34.0											34.0
36.0											36.0
38.0											38.0
40.0											40.0
 2#	0%	50%	0%	50%	0%	100%	50%	0%	100%	50%	2#
 3#	0%	0%	17%	17%	33%	0%	33%	50%	17%	50%	3#
 4#	0%	0%	17%	17%	33%	0%	33%	50%	17%	50%	4#
 5#	0%	0%	17%	17%	33%	0%	33%	50%	17%	50%	5#
 C <sub>n</sub>	16	10	6	6	6	8	6	5	6	5	 C <sub>n</sub>
 Min	0°	0°	0°	0°	0°	0°	0°	0°	0°	0°	 Min
 Min kg	15000	7000	9000	4500	5500	3000	3000	3000	2000	1500	 Min kg
 Max	80°	80°	80°	80°	80°	80°	80°	80°	80°	80°	 Max

# Load Chart-Telescopic Boom

性能表-主臂

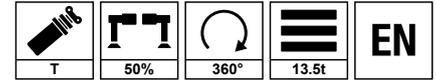


 m	31.9m	32.1m	36.7m	36.8m	36.9m	41.4m	41.5m	41.6m	46.2m	46.3m	51m	 m	
2.5												2.5	
3.0												3.0	
3.5												3.5	
4.0												4.0	
4.5												4.5	
5.0												5.0	
5.5	33500	26000										5.5	
6.0	33000	25000										6.0	
7.0	30000	23500	20000	28500	24000							7.0	
8.0	27500	22000	19000	25500	23000	18500	15500	22000				8.0	
9.0	25500	20000	17700	23500	21000	18500	15500	20500	18000	13800		9.0	
10.0	23000	18000	16000	21600	19000	17000	14300	19500	17500	13800	13300	10.0	
11.0	19000	17000	14700	20000	17500	15500	13300	18500	16300	13400	13300	11.0	
12.0	16800	15500	13700	18000	16000	14500	12300	17000	15000	13000	13000	12.0	
14.0	13000	14000	11800	13500	14000	12500	10700	14200	13300	11200	12000	14.0	
16.0	10200	11600	10300	10500	12000	11000	9600	11300	11000	9900	10800	16.0	
18.0	8000	10300	9300	8800	9500	9700	8600	9200	9600	8800	9700	18.0	
20.0	6500	8500	8400	7100	7700	7800	7600	7400	7800	8000	8000	20.0	
22.0	5000	7100	7300	5800	6200	6300	7000	6200	6200	7000	6500	22.0	
24.0	4000	5900	6200	4700	5200	5200	6100	4900	5200	5800	5300	24.0	
26.0	3100	4800	5100	3700	4300	4100	5200	3900	4200	4800	4300	26.0	
28.0	2400	4000	4300	2700	3300	3300	4300	3100	3300	4000	3500	28.0	
30.0			3400	1900	2600	2900	3600	2400	2600	3200	2800	30.0	
32.0			2700	1200	1800	2500	3000	1700	2000	2600	2200	32.0	
34.0						1800	2400	1200	1500	2100	1800	34.0	
36.0						1200	1900		1000	1800	1300	36.0	
38.0										1400		38.0	
40.0										1000		40.0	
	2#	100%	0%	0%	100%	50%	50%	0%	100%	100%	50%	100%	2#
	3#	33%	67%	83%	50%	67%	83%	100%	67%	83%	100%	100%	3#
	4#	33%	67%	83%	50%	67%	83%	100%	67%	83%	100%	100%	4#
	5#	33%	67%	83%	50%	67%	83%	100%	67%	83%	100%	100%	5#
	6	4	4	4	4	4	4	4	4	4	4		
	0°	0°	0°	0°	0°	0°	0°	27°	34°	24°	40°		
	1000	2500	1500	800	1000	800	1000	800	800	800	800		
	80°	80°	80°	80°	80°	80°	80°	80°	80°	80°	80°		

# Load Chart-Telescopic Boom

## 性能表-主臂

Unit: kg



 m	13m	17.8m	17.9m	22.6m	22.4m	22.5m	27.2m	27.3m	27.4m	32m	 m
2.5	87000*										2.5
3.0	77000	45500	34000								3.0
3.5	68000	45500	34000	29000	35500	32000					3.5
4.0	61000	45500	34000	29000	35500	32000					4.0
4.5	55500	45500	34000	29000	35500	32000	28000	26000	30000		4.5
5.0	49500	42500	34000	28000	35500	32000	28000	26000	30000		5.0
5.5	42500	36500	34000	27000	35500	32000	27000	25000	30000	27000	5.5
6.0	37000	32500	32500	26000	29500	29500	25000	24000	30000	27000	6.0
7.0	29000	26000	28000	23500	23000	25000	24000	23000	26000	23500	7.0
8.0	23000	21000	23000	20000	19000	20500	22000	22000	22000	18500	8.0
9.0	18500	17500	19000	17500	16000	17500	19000	19500	18000	15500	9.0
10.0	14700	14700	16000	15500	13500	15000	15500	16500	14000	13500	10.0
11.0		12000	13500	14100	11300	13000	13000	14000	12000	12000	11.0
12.0		10000	11500	12300	9500	11000	11000	12000	9500	10500	12.0
14.0		7100	8500	9300	6700	8000	8000	9000	7000	7800	14.0
16.0				7200	4800	6000	6500	7300	5200	5900	16.0
18.0				5700	3300	4000	5000	5800	3800	4400	18.0
20.0							3800	4600	2800	3300	20.0
22.0							2800	3800	2000	2500	22.0
24.0							2100	2800		1700	24.0
26.0											26.0
28.0											28.0
30.0											30.0
32.0											32.0
34.0											34.0
 %	2# 0%	50%	0%	0%	100%	50%	50%	0%	100%	100%	2#
	3# 0%	0%	17%	33%	0%	17%	33%	50%	17%	33%	3#
	4# 0%	0%	17%	33%	0%	17%	33%	50%	17%	33%	4#
	5# 0%	0%	17%	33%	0%	17%	33%	50%	17%	33%	5#
 C <sub>n</sub>	14	8	6	4	6	5	4	4	4	4	 C <sub>n</sub>
 Min	0°	0°	0°	0°	0°	0°	0°	0°	0°	34°	 Min
 Min kg	9000	3500	5000	3000	1000	1500	1000	1500	800	800	 Min kg
 Max	80°	80°	80°	80°	80°	80°	80°	80°	80°	80°	 Max

# Load Chart-Telescopic Boom

## 性能表-主臂

Unit: kg

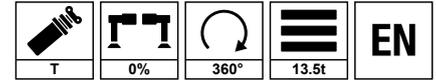


 m	31.9m	32.1m	36.7m	36.8m	36.9m	41.4m	41.5m	41.6m	46.2m	46.3m	51m	 m
2.5												2.5
3.0												3.0
3.5												3.5
4.0												4.0
4.5												4.5
5.0												5.0
5.5	25000	21000										5.5
6.0	24000	20000										6.0
7.0	23000	19000	19000	22000	17000							7.0
8.0	20500	18000	18000	19000	16000	16000	15000	14000				8.0
9.0	18000	16500	16000	16200	15000	15000	14500	14000	12000	13000		9.0
10.0	15000	13700	14000	14000	14000	14000	13800	13000	12000	13000	11600	10.0
11.0	12500	13000	12000	11800	12500	13000	13000	12000	11500	13000	11000	11.0
12.0	11000	12500	10500	10200	11000	11000	11500	11000	10500	12000	10000	12.0
14.0	8500	9800	8000	7800	8500	8500	9500	9000	8800	10000	8000	14.0
16.0	7000	7800	6300	5900	7000	6600	7500	8000	7300	7800	6300	16.0
18.0	5500	6200	5200	4600	6000	5100	6000	6600	6000	6000	5200	18.0
20.0	4200	5000	4000	3500	5000	4000	4800	5400	4900	4500	4100	20.0
22.0	3200	4000	3300	2600	3900	3000	3800	4400	4000	3300	3200	22.0
24.0	2500	3300	2500	1900	3100	2400	3000	3600	3200	2300	2500	24.0
26.0	1700	2700	2100	1400	2500	1700	2300	3000	2500	1700	2000	26.0
28.0		2100	1500		2300	1200	1700	2400	2000	1400	1500	28.0
30.0					1700		1300	1900	1500			30.0
32.0								1500				32.0
34.0								1300				34.0
 %	2# 50%	0%	50%	100%	0%	100%	50%	0%	50%	100%	100%	2#
	3# 50%	67%	67%	50%	83%	67%	83%	100%	100%	83%	100%	3#
	4# 50%	67%	67%	50%	83%	67%	83%	100%	100%	83%	100%	4#
	5# 50%	67%	67%	50%	83%	67%	83%	100%	100%	83%	100%	5#
 C <sub>n</sub>	4	4	4	4	4	4	4	4	4	4	4	
 Min	27°	0°	34°	39°	28°	43°	39°	28°	45°	48°	53°	
 Min kg	800	1000	800	800	800	800	800	800	800	800	800	
 Max	80°	80°	80°	80°	80°	80°	80°	80°	80°	80°	80°	

# Load Chart-Telescopic Boom

## 性能表-主臂

Unit: kg



 m	13m	17.8m	17.9m	22.6m	22.4m	22.5m	27.2m	27.3m	27.4m	32m	 m
4.0					28000						4.0
4.5	23500	22500			22500	24000			24000		4.5
5.0	19500	19000	20000		18500	20000			20500		5.0
5.5	16500	15800	17000		15500	17000	17800		17500	17000	5.5
6.0	14500	13300	14000	15500	13200	15000	15400	16300	15000	14500	6.0
7.0	11200	9800	10500	12000	9800	11500	11800	12500	11500	11000	7.0
8.0	9000	7500	8500	9500	7500	9000	9300	10300	9000	8800	8.0
9.0	7000	5500	6700	8000	5800	7000	7500	8500	7000	7000	9.0
10.0	5000	4100	5300	6800	4500	5600	6000	7000	5500	5500	10.0
11.0		3200	4300	5700	3400	4600	5000	6000	4400	4500	11.0
12.0		2000	3500	4800	2500	3800	4000	5000	3500	3800	12.0
14.0			2500	3500	1500	2500	3000	3700	2200	2400	14.0
16.0				2500		1500	2000	2700	1100	1500	16.0
18.0				1700			1500	2000			18.0
20.0				1100				1500			20.0
22.0											22.0
 %	2# 0%	50%	0%	0%	100%	50%	50%	0%	100%	100%	2# 
	3# 0%	0%	17%	33%	0%	17%	33%	50%	17%	33%	3# 
	4# 0%	0%	17%	33%	0%	17%	33%	50%	17%	33%	4# 
	5# 0%	0%	17%	33%	0%	17%	33%	50%	17%	33%	5# 
 t	4	4	4	4	4	4	4	4	4	4	
 Min	0°	35°	0°	0°	44°	37°	42°	35°	48°	55°	
 kg	3000	800	800	800	800	800	800	800	800	800	
 Max	68°	75°	72°	73°	78°	76°	77°	75°	80°	80°	

# Load Chart-Telescopic Boom

## 性能表-主臂

Unit: kg



 m	31.9m	32.1m	36.7m	36.8m	36.9m	41.4m	41.5m	41.6m	46.2m	46.3m	51m	 m	
4.0												4.0	
4.5												4.5	
5.0												5.0	
5.5	18000											5.5	
6.0	15500											6.0	
7.0	12000	12500	12000	11500	12500							7.0	
8.0	9500	10200	10000	9200	10500		10000	10500				8.0	
9.0	7700	8300	8000	7500	8500	7700	8200	8700	8400	8000		9.0	
10.0	6400	7000	6500	6000	7000	6300	6800	7300	7000	6600	6600	10.0	
11.0	5300	6000	5500	5000	6000	5300	5700	6200	5900	5500	5600	11.0	
12.0	4400	5100	4700	4200	5100	4400	4900	5400	5000	4700	4700	12.0	
14.0	3200	3800	3300	2800	3800	3200	3700	4000	3800	3500	3400	14.0	
16.0	2300	2900	2400	1800	2800	2200	2600	3100	2700	2500	2500	16.0	
18.0	1500	2200	1700		2100	1400	1900	2400	1900	1700	1700	18.0	
20.0		1600			1500		1300	1700	1200			20.0	
22.0								1200				22.0	
 %	2#	50%	0%	50%	100%	0%	100%	50%	0%	50%	100%	100%	2# 
	3#	50%	67%	67%	50%	83%	67%	83%	100%	100%	83%	100%	3#
	4#	50%	67%	67%	50%	83%	67%	83%	100%	100%	83%	100%	4#
	5#	50%	67%	67%	50%	83%	67%	83%	100%	100%	83%	100%	5#
		4	4	4	4	4	4	4	4	4	4	4	
		50°	45°	56°	59°	52°	60°	57°	54°	61°	63°	66°	
		800	800	800	800	800	800	800	800	800	800	800	
		79°	77°	80°	80°	79°	80°	80°	80°	80°	80°	80°	

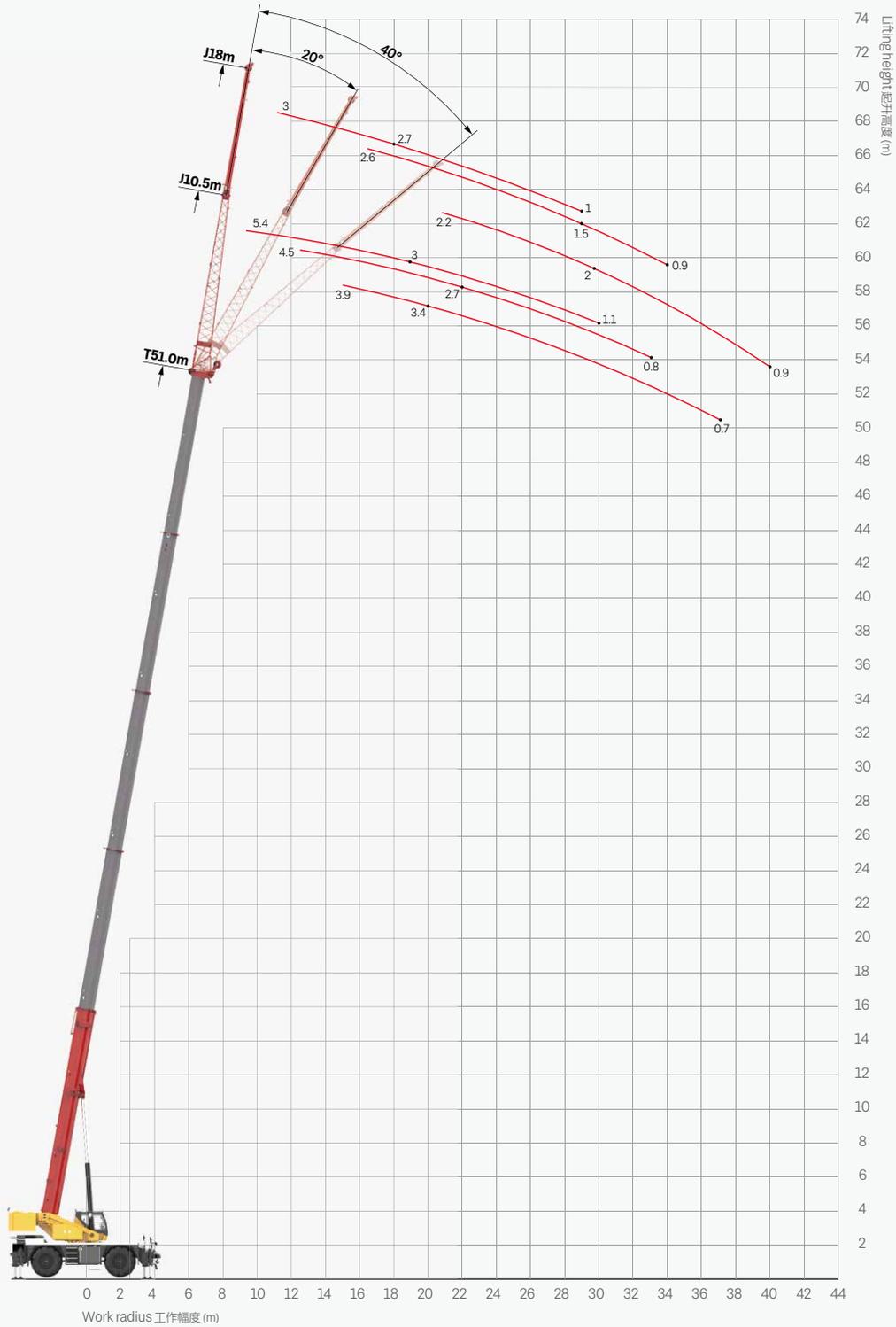
**Remark**

1. Load capacity in the chart is the maximum weight which this crane could hoist include the weight of hook blocks and riggings.
2. Radius shown in the chart is the actual radius when loading.
3. The load capacity in the chart is the maximum weight when this crane is supported with the firm ground and stays in level.
4. Choose rated load capacity of the longer boom and radius when the actual boom length and radius are between two values in the charts.
5. The machine can be used only when the wind power is less than grade 6.
6. The rating with \* requires additional sheaves.

1. 性能表中额定起重量包括起重物和吊具的重量。
2. 性能表中工作幅度是指吊载后的实际幅度。
3. 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最大起重量。
4. 如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重作业。
5. 起重作业风力等级需低于 6 级。
6. 带 \* 工况需增加辅助滑轮。

# Operating Range - Fixed Jib

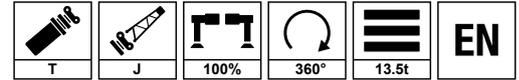
## 起升高度曲线-副臂



# Load Chart - Fixed Jib

## 性能表-副臂

Unit: kg



m kg	51+10.5						51+18						m kg
	0°		20°		40°		0°		20°		40°		
	m	kg	m	kg	m	kg	m	kg	m	kg	m	kg	
80	8.4	5400	11.9	4500	15.5	3900	9.7	3000	15.6	2600	21.3	2200	80
79	9.5	5300	12.9	4500	16.6	3800	10.9	3000	16.8	2500	22.4	2200	79
78	10.5	5100	13.9	4400	17.7	3700	12.1	2900	17.9	2500	23.6	2200	78
77	11.6	4900	14.9	4300	18.7	3600	13.3	2900	19.0	2400	24.7	2100	77
76	12.6	4700	16.0	4100	19.8	3400	14.4	2900	20.2	2400	25.9	2100	76
75	13.7	4500	17.0	3900	20.8	3200	15.6	2800	21.3	2300	27.0	2100	75
73	15.7	4100	19.0	3700	22.9	2900	17.9	2700	23.5	2200	29.2	2000	73
70	18.8	3000	21.9	2700	26.0	2500	21.3	2300	26.8	1900	32.5	1800	70
68	20.8	2400	23.9	2300	28.0	2100	23.6	1900	28.9	1500	34.6	1400	68
65	23.7	2000	26.7	1900	30.9	1700	26.9	1300	32.0	1100	37.7	1100	65
63	25.7	1700	28.6	1600	32.8	1400	29.1	1000	34.1	900	39.7	900	63
60	28.5	1400	31.3	1200	35.6	1100							60
58	30.3	1100	33.0	800	37.4	700							58
	56°						60°						
		500		400		300		500		400		300	

# Load Chart - Telescopic Boom, Pick & Carry, Load Over Front

## 性能表-主臂带载行驶(正前方)

Unit: kg



	13.0m	17.9m	22.4m	27.3m	32.1m	
4.0	15000	16500				4.0
4.5	13500	15000	15300			4.5
5.0	12400	14000	14800	12300		5.0
5.5	11200	12800	12600	12100		5.5
6.0	10200	11800	11500	11800	12000	6.0
6.5	9300	11000	10600	11000	11000	6.5
7.0	8500	10200	9800	10000	10000	7.0
8.0	7000	8800	8300	8800	9000	8.0
9.0	5800	7600	7300	7600	7900	9.0
10.0		6600	6300	6700	6900	10.0
11.0		5800	5400	5800	6000	11.0
12.0		4500	4700	5000	5200	12.0
14.0		3000	3500	3800	4000	14.0
16.0			2500	2900	3000	16.0
18.0			1500	2100	2300	18.0
20.0				1400	1500	20.0
 2#	0	0	0	0	0	2# 
3#	0	17	33	50	67	3#
4#	0	17	33	50	67	4#
5#	0	17	33	50	67	5#
	4	4	4	4	4	
	0°	0°	26°	36°	46°	
	3000	800	800	800	800	
	80°	80°	80°	80°	80°	

# Load Chart - Telescopic Boom, On Tires Stationary, Load Over Front

## 性能表-轮胎静止吊载(正前方)

Unit: kg



 m	13.0m	17.9m	22.4m	27.3m	32.1m	 m
4.0	22200	20000				4.0
4.5	20000	19000	18000			4.5
5.0	18000	17000	17000	16500		5.0
5.5	16000	16000	16000	15500		5.5
6.0	15000	15000	15300	14500	14000	6.0
6.5	14000	14000	13800	13500	13500	6.5
7.0	13000	13000	12700	12500	13000	7.0
8.0	11000	11000	10800	11000	12500	8.0
9.0	8800	9500	9200	9200	11000	9.0
10.0		8000	7800	8000	9000	10.0
11.0		6800	6700	7000	8000	11.0
12.0		5500	5700	6200	7000	12.0
14.0		3500	4200	4800	5200	14.0
16.0			3000	3300	4000	16.0
18.0			2000	2300	2700	18.0
20.0				1500	1800	20.0
	2#	0	0	0	0	2#
	3#	0	17	33	50	67
	4#	0	17	33	50	67
	5#	0	17	33	50	67
	4	4	4	4	4	
	0°	0°	25°	35°	46°	
	4000	2000	800	800	800	
	80°	80°	80°	80°	80°	

# Load Chart - Telescopic Boom, On Tires Stationary, 360° Slewing

## 性能表-轮胎静止吊载(360°)

Unit: kg



	13.0m	17.9m	22.4m	27.3m	32.1m	
5.0	8800					5.0
5.5	7000					5.5
6.0	5500					6.0
6.5	4500	6500				6.5
7.0	3500	5500	5800			7.0
8.0	2000	4000	4100	5000	5500	8.0
9.0		2800	3000	3500	4500	9.0
10.0		1500	2100	2600	3500	10.0
11.0				1900	2800	11.0
12.0					2100	12.0
	2#	0	0	0	0	2#
	3#	0	17	33	50	3#
	4#	0	17	33	50	4#
	5#	0	17	33	50	5#
	4	4	4	4	4	
	40°	48°	57°	61°	63°	
	800	800	800	800	800	
	61°	65°	69°	72°	78°	

**Remark**

1. Capacities are applicable at 525kPa cold tire inflation pressure.
2. Capacities are applicable only with machine on firm level surface.
3. On tire lifting with the jib mounted is not permitted.
4. Axle lockouts must be applied when lifting on tires.
5. Parking brake must be applied when lifting on tires stationary.
6. Driving speed shall be ≤4km/h at pick & carry mode.

1. 冷态轮胎气压需保持 525kPa。
2. 起重机需在平整坚固的地面上作业。
3. 轮胎吊载工况不允许使用副臂吊载。
4. 轮胎吊载工况中，车桥悬挂需锁定。
5. 轮胎静止吊载工况中，需使用驻车制动。
6. 带载行驶工况中，直线行驶速度需小于等于 4km/h。



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