

SANY[®]

SPECIFICATION

BETTER WORLD, BETTER SANY CRANE



SAC3500T8

SANY ALL TERRAIN CRANE



350 t



90 m



122 m

■ www.sanyglobal.com

QUALITY CHANGES THE WORLD

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.

V1.4

QUALITY CHANGES THE WORLD

It is one of the core business units in SANY Group, specializing in the development and manufacturing of high-end wheel 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



Superior Lifting Performance

起重性能强悍

Telescopic boom: 90m 8-section U shape boom, box-type boom head with strong load-bearing capacity.
 Fixed jib: variable combinations from 15m to 43m, mechanical adjustment at 0°/20°/40°, the maximum length of the boom and jib can reach 122.3m, covering the installation of towers below 110m.
 Superlift device: with a variable deployment angle of 20°/30°, significantly enhancing the lifting performance of the long boom section.
 Luffing cylinder: dual luffing cylinders, providing more powerful lifting and better maneuverability.
 Counterweight: self-assembly & disassembly pallet-style counterweight, offering higher efficiency in counterweight assembly and disassembly.
 Outrigger span: with a transverse outrigger span of 8.9m, providing better stability and greater lifting capacity for long-distance lifting.

主起重臂：8节U型主臂，全伸臂90m，箱型臂头，承载能力强。

固定副臂：15m~43m多种臂长组合，0°/20°/40°可变位，主臂+副臂最大臂长可达122.3m，覆盖110m以下线塔安装。

超起装置：20°/30°可变换展角，长臂段起重性能大幅提升。

变幅油缸：配置双变幅油缸，起幅更给力，操纵性更好。

配重：自拆装托盘式配重，配重拆装效率更高。

支腿跨距：横向支腿跨距8.9m，稳定性更好，吊远更给力。

Excellent Travel Performance

行驶性能卓越

Innovative six-axle reinforced chassis structure, featuring all-wheel steering, and axle 1&3&5&6 drive, offering various steering and driving modes for exceptional maneuverability.

Brand new intelligent multi-mode hydro pneumatic suspension system, with real-time monitoring of vehicle posture, active hoisting, and adaptive damping functions, providing a more comfortable ride and ensuring stable driving.

Powerful power system with full-axle dual-caliper disc brakes, equipped with a 390kW Weichai engine for chassis and a 199kW Weichai engine for superstructure. The FAST automatic transmission with hydraulic retarder greatly enhances driving safety and smoothness.

Strong capability for transfer on site with heavy load: Standard 445 large tires, achieving speeds of up to 70 km/h with boom and outriggers, and reaching speeds of up to 40 km/h with the boom, outriggers, superstructure, and outrigger pads, significantly improving transfer efficiency.

六桥加强型底盘结构，全轮转向、前后桥(1/3/5/6桥)驱动，多种转向及驱动模式，行驶能力超强。

全新智能多模式油气悬挂系统，车体姿态实时监控、主动提升和变阻尼自适应等功能，驾乘更舒适，行驶更稳定。

强劲动力及传动系统，全桥双钳盘式制动，下车潍柴390kW发动机，上车潍柴199kW发动机，法士特带液力缓速器自动挡变速箱，极大提高行驶安全性和平顺性。

重载转场能力强：标配445大轮胎，带臂带腿状态速度可达70km/h，带臂带腿带超起带支腿垫板状态速度可达40km/h，转场效率大幅提高。



Efficient and Reliable

高效可靠

Multi-pump, multi-circuit hydraulic system, with electric proportional and multi-stage pressure control, achieving optimized speed range and fine inching performance, resulting in superior performance.

Innovative tension control technology, enabling one-key automatic tensioning and fold/unfold of the superlift, increasing operational efficiency by 20%. Significantly improved lifting performance of the mid and long boom sections. Superlift active correction technology against side bending, ensuring more worry-free and safer long-boom operations.

Few operational constraints, multiple modes superlift configuration, three outrigger span combinations, providing comprehensive adaptability to narrow job site requirements.

Equipped with triple-row roller slewing bearings, offering strong loadbearing capacity and long service life.

多泵、多回路液压系统，电比例及多级压力控制，实现速度分档和微动性优化，性能更卓越。

全新定长张紧控制技术，一键自动张紧及收/展超起，作业效率提升20%，中长臂段起重性能大幅提升；超起抗旁弯主动修正技术，长臂作业更省心、更安全。

作业限制小，多模式超起作业工况，三种支腿跨度组合，两种超起展开角，全方位适配狭窄场地需求。

配置三排滚柱式回转支承，承载力强，寿命长。

Safe and Reliable

安全可靠

Multi-functional wireless remote control system makes crane operations more convenient and safer.

Utilizes high-precision, high-stability, and highly intelligent load moment indicator system to provide comprehensive protection for lifting operations.

Equipped with a variety of sensors to provide timely feedback on data information, enabling real-time monitoring and keeping track of the vehicle's working status at all times.

多功能无线遥控系统，起重机作业更加方便，操作更加安全。

采用高精度、高稳定性、高智能化的力矩限制器系统，全方位保护吊载作业。

配置丰富的传感器件，及时反馈数据信息，实时监控，随时掌握整车工作状态。

GCP System

GCP系统

Equipment remote monitoring and management system, equipped with powerful functions for equipment operation status and operational parameter collection, enabling remote fault diagnosis and management.

Intelligent monitoring: High-definition image quality, monitoring from six angles, comprehensively overseeing equipment operation conditions.

国内首创的设备远程监控管理系统，具备强大的设备运行工况、作业参数采集功能，可实施远程故障诊断、管理。

智能监控：高清画质，眼观六路，全面看护设备作业情况。

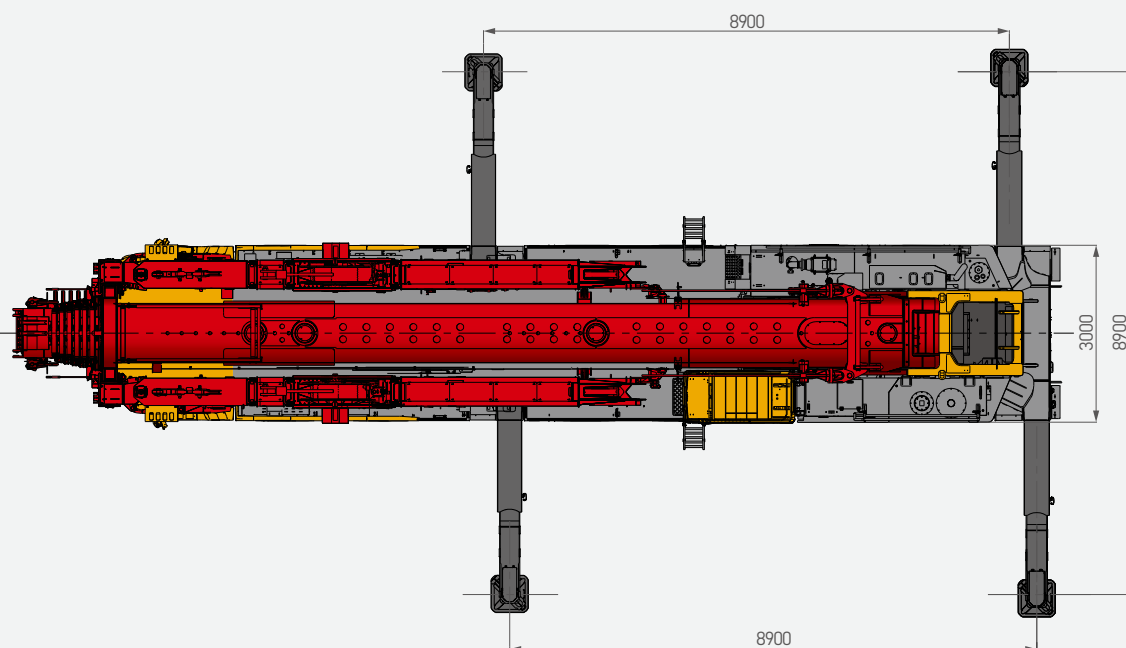
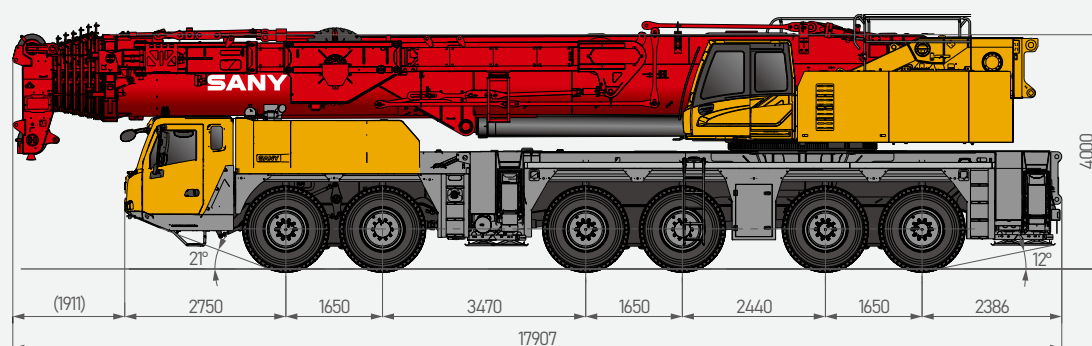


SAC3500T8

SANY ALL TERRAIN CRANE

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	350
WEIGHT 重量参数	Gross weight (excluding 4~8 section boom) 整机质量(拆4-8节臂等)	kg	72000
	Axle load 载荷 Axles 1, 2, 3 第一、二、三轴负荷	kg	12000
	Axles 4, 5, 6 第四、五、六轴负荷	kg	12000
POWER (CHASSIS) 发动机参数(下车)	Max. engine power 发动机最大功率	kW/rpm	390/1900
	Max. engine torque 发动机最大输出扭矩	N.m/rpm	2500/1000~1400
POWER (SUPERSTRUCTURE) 发动机参数(上车)	Max. engine power 发动机最大功率	kW/rpm	199/2000
	Max. engine torque 发动机最大输出扭矩	N.m/rpm	1200/1200~1500
DIMENSIONS (ANNOUNCEMENT STATUS) 尺寸参数 (公告状态)	Overall length 整机全长	mm	16722
	Overall width 整机全宽	mm	3000
	Overall height 整机全高	mm	4000
	Axles 1 & 2 第一、二轴距	mm	1650
	Axles 2 & 3 第二、三轴距	mm	3470
	Axle base 轴距 Axles 3 & 4 第三、四轴距	mm	1650
	Axles 4 & 5 第四、五轴距	mm	2440
TRAVEL (ANNOUNCEMENT STATUS) 行驶参数 (公告状态)	Axles 5 & 6 第五、六轴距	mm	1650
	Max. travel speed 最高行驶速度	km/h	80
	Wheel formula 车轮模式	-	12×8×12
	Min. ground clearance 最小离地间隙	mm	340
	Approach angle 接近角	°	21
MAIN PERFORMANCE 主要性能参数	Departure angle 离去角	°	12
	Working temperature range 使用温度区间	°C	-41~+40
	Min. rated lifting radius 最小额定幅度	m	2.5
	Boom sections (Qty.) 臂节数	-	8
	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 9160
		Full-extension boom 全伸主臂	kN-m 3534
		Full-extension boom + jib 全伸主臂 + 副臂	kN-m 1840
	Boom length 臂长	Basic boom 基本臂	m 15.2
		Full-extension boom 全伸主臂	m 90
		Full-extension boom + jib 全伸主臂 + 副臂	m 122.3
	Max.lifting height 最大起升高度	Basic boom 基本臂	m 15
		Full-extension boom 全伸主臂	m 90
		Full-extension boom + jib 全伸主臂 + 副臂	m 122
	Outrigger span (Longitudinal×Transverse) 支腿跨距(纵×横)	m	8.9×8.9
	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
	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	4	5	6	Gross weight 总重量
Axle load 轴荷 /t	10.1	10.06	10.3	13.29	13.95	13.83	71.53

Remark: Excluding 4th to 8th sections of boom, hooks, counterweight bracket, superstructure interface device, etc.
备注：不含第四至第八节伸缩臂、吊钩、配重架、超起接口装置等附件。



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
125 ○	7	14	1443
80 ●	3	7	696
32 ○	1	3	479
12.5 ○	0	1	270

● 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	125m/min	Φ22mm/440m	11.2t
Full luffing up/down time of boom 主臂起落幅时间	65s/115s		
Full extension/retraction time of boom 主臂伸缩时间	850/850		
Outrigger jack 垂直支腿	Extension 伸	50s	
	Retraction 缩	55s	
Outrigger beam 水平支腿	Extension 伸	50s	
	Retraction 缩	50s	

Crane Introduction

整机介绍

Carrier 下车

Driver's cab 驾驶室

- The cab is a new type of steel structure independently developed by SANY, with excellent shock absorption and sealing performance. With outward opening doors on both sides, and featuring driver's seat and passenger's seat with pneumatic suspension, adjustable multi-function steering wheel, large-field rearview mirrors, comfortable driver's seat with headrest, anti-fog fan, heating and cooling A/C, stereo radio etc., as well as complete control instruments and meters, so that the driving will be more comfortable, safer, and more user-friendly.
- 驾驶室为三一自主研发新款驾驶室, 自主开发新型钢结构, 减震性和封闭性优良, 两侧外开式车门, 配备气动悬置的驾驶室及副驾驶座, 可调整式的转向盘、大视野后视镜、配有头枕的舒适驾驶椅、防雾扇、冷暖空调, 立体收音机等装配, 控制仪器和仪表齐全, 更加舒适、安全、人性化。

Carrier frame 车架

- Designed and manufactured by SANY, the torsion-resistant box-type structure with optimized structure and low weight is welded by fine-grained high-strength steel plates. The outriggers are retracted in special fixed boxes, which are located between axle 2 and axle 3 and at the carrier frame tail, and equipped with front and rear towing devices.
- 三一自主研发并专业化制造, 结构优化, 防扭转箱型结构, 细晶粒高强度钢板焊接制作; 支腿收缩在特制固定箱中, 支腿箱位于2桥和3桥之间以及车架尾部; 并且配备前牵引挂钩。

Chassis engine 底盘发动机

- Model: electronically controlled, in-line 6-cylinder, watercooled, supercharged, intercooled diesel engine.
- Power: 390kW/1900rpm.
- Torque: 2500N·m/1000~1400rpm.
- Emission standard: Euro V.
- Fuel reservoir capacity: approx. 560L.
- 型号: 电控、直列六缸、水冷却、增压中冷、电喷、柴油发动机;
- 额定功率: 390kW/1900rpm;
- 最大扭矩: 2500Nm/1000~1400rpm;
- 环保性: 排放符合欧V标准;
- 燃料箱容量: 约560L。

Transmission 变速箱

- FAST AMT with 12 speeds forward and 2 speeds reverse, with integral hydraulic retarder for wear-free brake, which is adaptable to slope climbing and high-speed traveling on public roads.
- 法士特手自一体变速箱(12个前进挡, 2个倒挡), 一体式液力缓速器无磨损制动, 既可满足低速场地爬坡又可满足公路高速行驶。

Axle 车桥

- High-quality axles with full-axle steering, featuring front and rear axle (1/3/5/6 axles) drive. Axles 1 and 2 are equipped with linkage-feedback hydraulic power steering system, and axles 3, 4, 5 and 6 are equipped with electro-hydraulic steering system, providing speed control assist and several special steering modes for option, and ensuring nimble steering and flexible control.
- 高品质车桥, 全桥转向, 前后桥(1/3/5/6桥)驱动。1/2桥采用杆系反馈的液压助力转向系统, 3/4/5/6桥采用电液控制转向, 可进行速度控制的辅助及可选择特殊转向模式, 转向轻便, 操控灵活。

Wheel formula 车轮模式

- 12×8×12.

Suspension system 悬挂系统

- Multi-mode height adjustable hydro-pneumatic suspension devices with hydraulic lockout, which can realize five modes incl. suspension, rigid locking, auto leveling, whole vehicle rising and single point rising & lowering. It can conduct real-time monitoring of vehicle attitude, smart identifying of axle load, active rising and self-adaptability to tough terrains, ensuring smoothness and lateral stability during driving.
- 智能多模式油气悬挂系统, 悬架高度可调, 带液压闭锁装置, 能实现悬挂、刚性锁定、自动调平、整车升降、单点升降五种模式。具备车体姿态实时监控、轴荷智能识别、主动提升和复杂路面自适应等功能, 驾乘更舒适, 行驶更稳定。

Tires 轮胎

- 445 large tires equipped with a tire pressure and temperature monitoring system.
- 445大轮胎, 配备胎压胎温监测系统。

Brake 制动系统

- Dual circuit, air brake, disc brakes available.
- Service brake: air servo brakes on all wheels, dual circuits, all wheels equipped with disc brakes.
- Parking brake: actuated by pressure accumulators on axles 2 to 6.
- Assist brake: engine brake, transmission hydraulic retarder brake.
- 双回路、气制动、配备盘式制动器;
- 行车制动器: 所有车轮均采用气压制动, 双回路制动系统, 盘式制动器;
- 驻车制动器: 由储能弹簧驱动作用在第二至第六桥上;
- 辅助制动器: 发动机上带有发动机制动、变速箱配备液力缓速制动。

Steering 转向系统

- All new constant pressure and constant flow steering system featuring linear following without lag and precise steering angle. Three steering emergency systems available.
- Six steering modes: 1) on-road driving (default). 2) all wheel steering. 3) crab steering. 4) reduced swing out steering. 5) independent rear axle steering. 6) independent front axle steering.
- 全新的恒压恒流量智能转向系统, 线性跟随无滞后, 转角精准零偏差; 三重转向应急系统, 行驶更加安全可靠;
- 可分为六种转向模式: 1) 公路行驶模式(默认模式); 2) 全转向模式; 3) 蟹形模式; 4) 无偏摆转向模式; 5) 独立后桥转向模式; 6) 后桥锁定转向模式。

Outrigger 支腿

- H-type two-stage telescopic outriggers. The telescopic hydraulic system of outrigger adopts electric proportional control technology and is equipped with wireless remote control with high control precision and easy operation, and has the function of automatic leveling.
- 活动支腿采用双H型两级伸缩支腿, 支腿伸缩液压系统采用电比例控制技术, 并配置有无线遥控, 并具有自动调平等功能, 控制精度高, 操作简便。

Crane Introduction

整机介绍

Carrier 下车



Electrical system 电气系统

- 24 V DC power supply. Chassis power supply can be cut off, equipped with auto lighting system; actions of the vehicle such as throttle and outrigger control are realized by electrical control with easy and fast operation; the electrical system has strong detection, logic, operation and other capabilities, and has the functions of fault diagnosis, centralized display and self-protection.
- The chassis adopts CAN bus system, which is provided with: fast, stable and accurate data transmission; multi-functional centralized display system; high protection grade of IP65; low power consumption with a maximum of 5W; with four function keys provided in the user interface; LCD is used for display adjustable for contrast.
- 采用24V直流电源,可实现下车电源切断;配备汽车照明系统;车辆的动作,如油门、支腿操纵等都经电气控制实现,使动作轻便、快捷;电气系统有很强的检测、逻辑、运算等能力,具故障自诊断、集中显示及自我保护功能;
- 底盘采用CAN总线系统,具有数据快速、稳定、准确等优点;多功能的集中显示系统;防护等级高,IP65;功率消耗小,最大仅有5w;在用户界面提供四个功能键;显示采用LCD 液晶,对比度可调整。

Superstructure 上车



Slewing platform 转台结构

- Independently designed by Sany, it is made of fine grained high-strength steel plates, with optimized structure.
- 三一自主设计,结构更优化。由细晶粒高强度钢制成。



Operator's cab 操纵室

- Sany new 0°~20° tiltable operator's cab, corrosion resistant FRP reinforced composite structure, full coverage softened interior, panoramic sunroof, tilt positioning of operator seat back and other human centered design make the operation comfortable and easy, touch screen with adjustable viewing angle, multi-screen and multi-angle monitoring to ensure operation safety and realize one-touch operation. The boom and superlift hoist are equipped with monitors for centralized monitoring in key areas. Perfect combination of main console and operation display system enables quick and easy human-computer interaction. Heating and cooling A/C is provided.
- 三一新款操纵室,0°~20°可变角度,采用耐腐蚀钢板,配置全覆盖 软化内饰、全景式天窗、可调式座椅等人性化设计,操作更舒适、轻松;配置主、辅显示屏,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;触摸式显示屏,视角可调节、多画面、多角度监控保证作业安全,满足一键式操作;主臂及超起卷扬配备监视器,重点区域集中监视;主控台与操作显示系统有机结合,人机交互方便快捷;配备冷暖空调。



Superstructure engine 上车发动机

- Model: WP7G270E301, electronically controlled, in-line 6-cylinder, watercooled, supercharged intercooled diesel engine.
- Power: 199kW/2000rpm.
- Torque: 1200Nm/1200~1500rpm.
- Emission standard: Non-road Euro III.
- Fuel reservoir capacity: 400L.
- 型号: WP7G270E301, 电控、直列六缸、水冷却、增压中冷、柴油发动机;
- 功率: 199kW/2000r/min;
- 最大扭矩: 1200Nm/1200~1500rpm;
- 环保性: 排放符合非道路欧三标准;
- 燃料箱有效容积: 400L。



Boom system 吊臂系统

- Boom: It is composed of 1 base boom and 7 telescopic sections. It is made of fine-grained high-strength steel plates by bending and welding, with oval shape profile, it has good buckling resistance, the single cylinder automatic pinning system is adopted, and a double-acting cylinder can control the extension and retraction of all booms to achieve a combination of multiple boom lengths, the basic boom length is 15.2m and the full-extension boom length is 90m.
- Jib: The jib can realize the jib length combination of 15m~43m (optional). The offset can be changed according to the actual needs of working conditions to improve the automation level, reduce the labor intensity and improve the work efficiency.
- Superlift device: It's arranged on the left and right sides of the head of the base boom, and independent from each other. The superlift device can greatly improve the stress state of the boom, avoid side bending and reduce the downward deflection deformation of the boom, so that the deflection in the long boom state can be reduced by 20%-30% and the lifting performance significantly improved.
- 主起重臂: 由1节基本臂和7节伸缩臂组成,采用细晶粒高强度钢板折弯、焊接制成,采用椭圆形截面,抗屈曲性能好;采用单缸自动插销式系统,一个双作用油缸可以控制所有吊臂的伸缩,达到多种臂长组合;基本臂长15.2m,全伸臂长90m;
- 副起重臂: 固定副臂: 可实现15m~43m(选配)的臂长组合,可根据工况的实际需要而变化角度,提高了自动化水平,减轻了劳动强度,提高了工作效率;
- 超起装置: 布置于基本臂头部左右两侧,左右独立;超起装置使得起重臂的受力状态得到很大改善,避免旁弯,减小起重臂的下挠变形,起重臂在长臂状态下挠度可减小20%~30%,起重性能大幅提升。

Crane Introduction

整机介绍



Slewing 回转系统

- It is composed of fixed displacement motor and slewing reducer with mature technology and widely used on wheel cranes, at the same time, it adopts external meshing with slewing bearing to realize 360° full-slewing and stepless speed regulation; the slewing hydraulic system adopts a closed system, which can not only avoid the throttling loss of the open system, but also make the system have high efficiency, electric proportional brake pedal is used to realize emergency braking.
- 由技术成熟、并在汽车起重机上广泛使用的定量马达和回转减速机组成,同时与回转支承采用外啮合形式,以实现360°全回转,无级调速;回转液压系统采用闭式系统,既能够避免开式系统的节流损失,又使系统具有较高的效率;电比例制动踏板,可实现紧急制动。



Hydraulics 液压系统

- Key hydraulic components including main pump, slewing pump, main valve, winch motor and balance valve are of high quality, ensuring the stability and reliability of the hydraulic system; the accurate parameter matching further improves the operation performance.
- Electro proportional variable displacement piston pump is applied, and the pump displacement is adjusted in real-time by changing the opening of electric control joy, realizing high-precision flow control and reducing the energy consumption.
- Self-developed dual-pump shunt/confluence main valve enables higher speed in case of single motion and better maneuverability in case of combined motions.
- Passive compensated luffing down is adopted, ensuring better inching movement and stability.
- The slewing system is of closed type, and the flow rate and the flowing direction are changed by adjusting the variable pump swash plate, providing better inching mobility and stability. Single-cylinder pin telescoping system is applied for the boom.
- 采用高品质的主油泵、回转泵、主阀、卷扬马达、平衡阀等关键液压元件,保证液压系统稳定、可靠;通过精确的参数匹配,使操作性能更加优越;
- 采用电比例变量柱塞泵,通过电控手柄开度的变化,实时调节油泵排量,实现高精度流量控制,作业时无能量损耗;
- 采用自主研发的双泵合/分流主阀,单动作双泵合流效率更高,组合动作双泵分流操控性更好;
- 采用自重落幅补偿液压系统,落幅微动性、平稳性更优越;
- 回转为闭式系统,通过调节变量泵斜盘的角度来改变流量及方向,微动性优越、回转平稳。



Hoist 起升机构

- Main hoist: Planetary gear reducer driven by hydraulic motor and special rope groove winch drum, with a built-in brake.
- Wire rope lock: The end of the wire rope is cast and directly installed in the lock sleeve, which improves the reeving speed.
- Max. single rope speed: approx. 125m/min.
- 液压马达驱动的行星齿轮减速机和专用绳槽卷扬鼓,内置制动器。
- 钢丝绳锁具:采用高品质钢丝绳锁,钢丝绳端浇铸,直接安装在锁套内,提高了起重倍率的更换速度,方便快捷;
- 最大单绳速:约125m/min。



Luffing system 变幅系统

- Double cylinders are adopted, the hydraulic system adopts dual-pump converging open hydraulic circuit, and the combination of electric proportional control, active luffing and passive luffing down can realize fast luffing at large elevation and stable slow luffing at small elevation. Luffing angle: 0°~82°.
- 双油缸前顶式变幅,变幅角度0°~82°,液压系统采用双泵合流开式液压回路,采用电比例控制、动力落幅和自重落幅相结合,可实现大角度快速落幅,小角度稳定慢速落幅。



Control system 控制系统

- Powered by 24 V DC, it adopts IFM controller, cable wiring, CAN-BUS control network, and combines with conventional electrical to realize the logic control and electrical proportional control functions of the system.
- It has the functions of system real-time monitoring and automatic fault diagnosis.
- Lifting, slewing and luffing are controlled by two auto resettable multidirectional electric proportional joystick; boom extension and retraction are controlled by pedal; counterweight lifting, operator's cab tilting and turntable locking are all controlled by keys on the control panel.
- The display is connected with the controller by CAN bus, and its main functions include digital adjustment and display of electric proportional control parameters, fault code display of electric proportional system and real-time detection data display of hydraulic system.
- 由24V直流电源供电,采用电缆布线,CAN-BUS总线控制网络,与常规电气相结合,完成系统的逻辑控制与电比例控制功能;
- 具有系统实时监测和故障自动诊断功能;
- 起升、回转、变幅、伸缩由两个可自动复位多方向电比例手柄控制;辅助动作平衡重升降、操纵室变位、转台锁止均在显示屏按键控制;
- 显示器由CAN总线与控制器联接,主要功能:电比例控制参数的数字化调整和显示,电比例系统的故障代码显示,液压系统实时检测数据的显示。



Safety equipment 安全装置

- A method of analytical mechanics is adopted and a load moment indicator calculation system based on the lifting mechanics model is established. Through online empty-load calibration, the lifting accuracy can reach $\pm 3\%$.
- The hydraulic system is equipped with hydraulic balance valve, relief valve, two-way hydraulic lock, etc. to realize the stability and reliability of the hydraulic system.
- The boom and luffing jib hoists are equipped with 3rd wrap indicators to prevent over-hoist-down of the wire rope.
- The boom head and jib head are equipped with A2B switch to prevent the wire rope from over winding.
- The boom head is equipped with an anemometer to detect whether the wind speed exceeds the allowable range.
- Superlift device retracting and releasing rope tension protection, jib installation and lifting protection.
- 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,吊重精度达到 $\pm 3\%$ 。
- 液压系统配置液压平衡阀、溢流阀、双向液压锁等元件,实现液压系统稳定可靠;
- 卷扬配置三圈保护器,防止钢丝绳过放;
- 臂端配置高度限位器,防止钢丝绳过卷;
- 臂端装有风速仪,检测高空风速是否超过可作业允许范围;
- 超起收放绳拉力保护程序,副臂安装、吊载保护程序等。

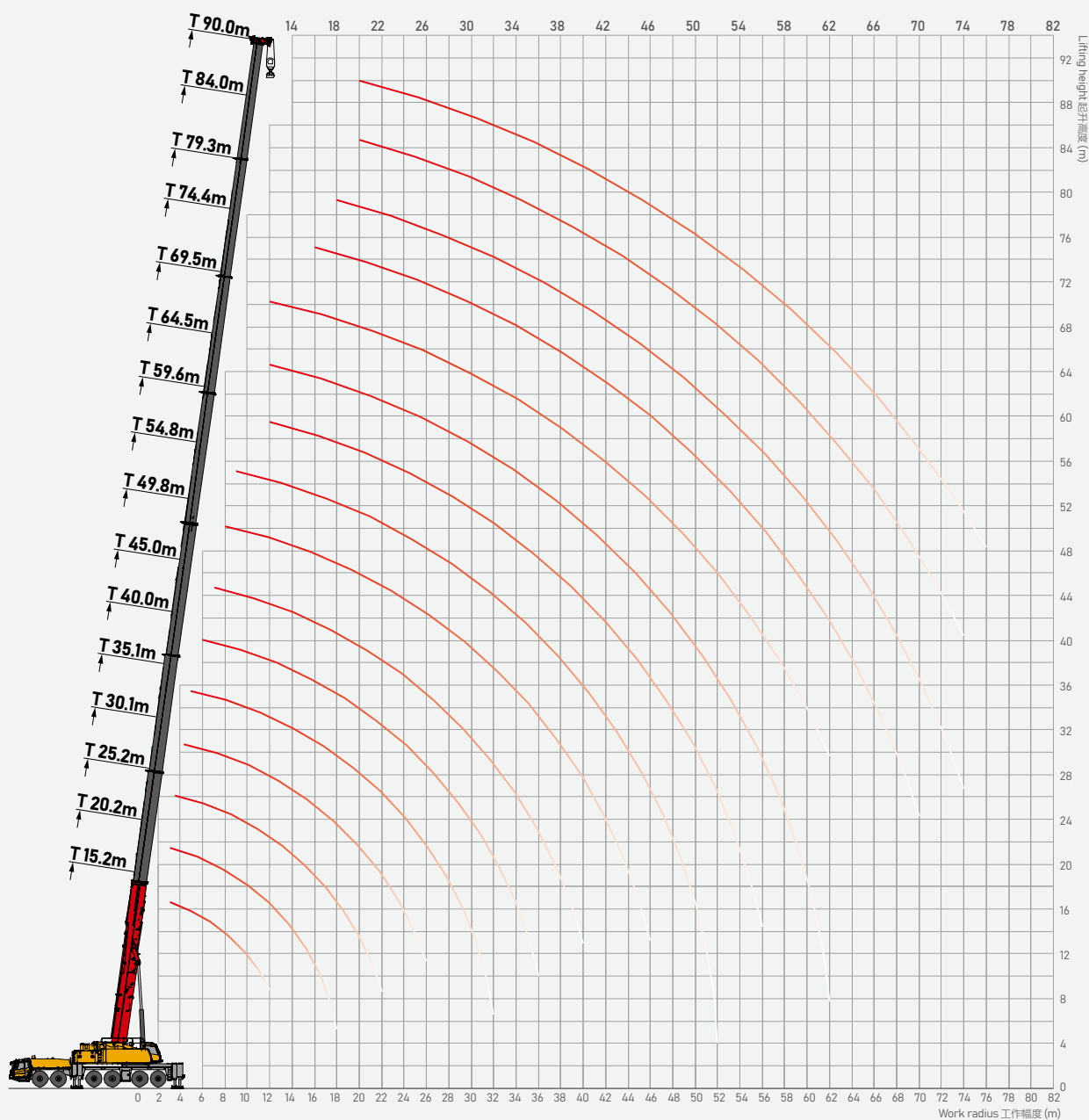


Counterweight 配重

- Combined variable counterweight. Variable combinations from 0t to 100t can meet the needs of different working conditions, maximize the performance of structural parts, achieve remote removal and installation, and a good inching-movement.
- 组合式带载变位平衡重。0~100t多种组合方式,可满足不同工况的需求,最大限度发挥结构件性能,可遥控拆卸及安装,微动性好。

Operating Range - Telescopic Boom (T)

起升高度曲线 - 主臂



Load Chart - Telescopic Boom (T)

性能表 - 主臂



Unit: t

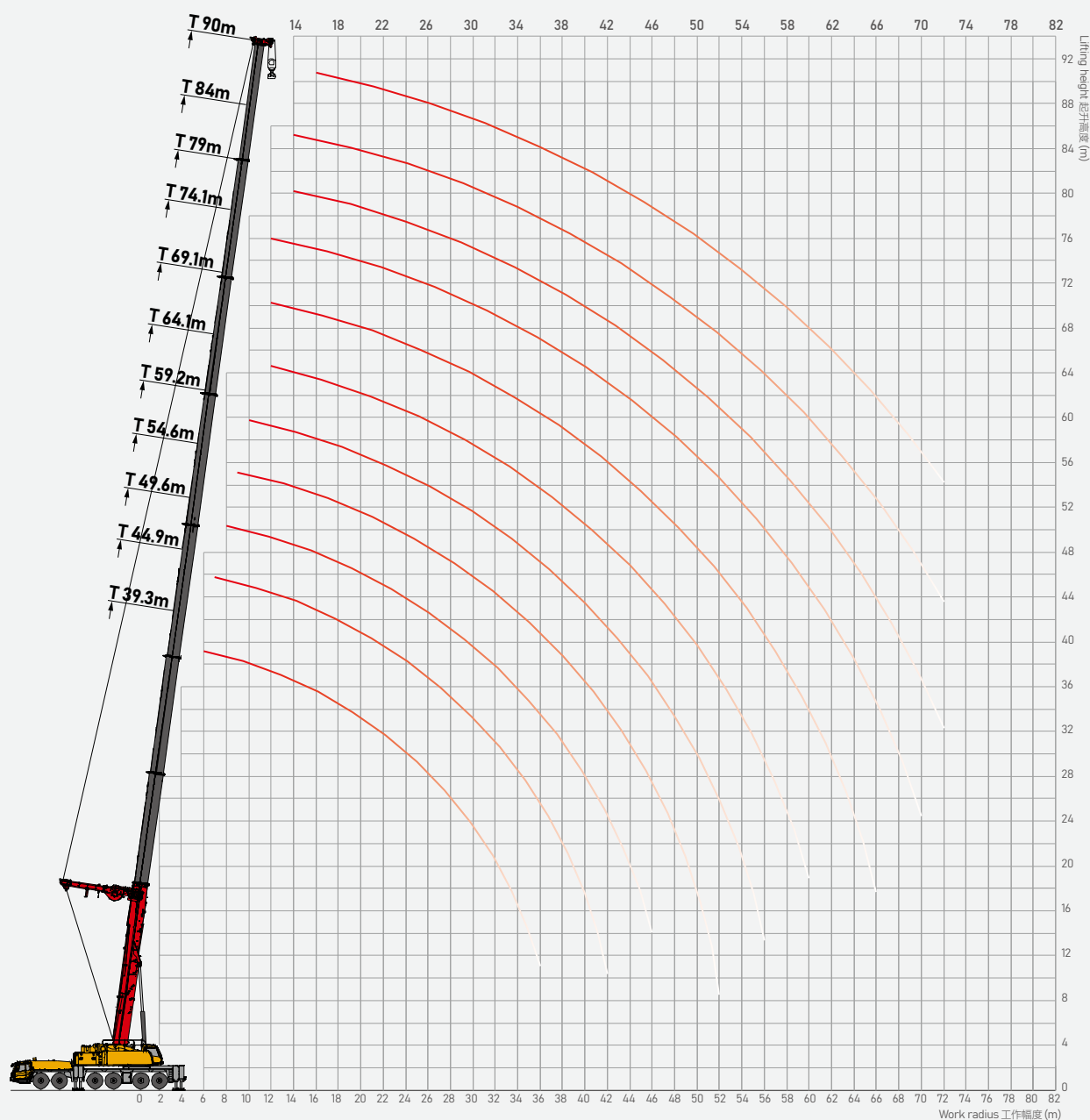
	15.2	20.2	25.2	30.1	35.1	40.0	45.0	49.8	54.6	59.6	64.6	69.5	74.4	79.3	84.1	90.0	
2.5	350*	156.4*															2.5
3.0	156.4*	156.4*															3.0
3.5	156.4*	156.4*	156.4*														3.5
4.0	156.4*	156.4*	156.4*														4.0
4.5	156.4*	156.4*	156.4*	128													4.5
5.0	156.4*	156.2*	153.6*	127	121.8												5.0
6.0	138	136.9	135.6	120.3	121.4	100.4											6.0
7.0	122.7	122.8	120.8	120.3	121.4	100.4	89.6										7.0
8.0	110.1	110.3	110.1	110.8	110.1	100.4	89.6	74.1	58.2								8.0
9.0	99.6	99.9	99.6	100.3	99.7	100.4	89.6	72	58.2								9.0
10.0	90.8	91.1	90.8	91.6	90.8	91.6	86.8	66.3	58.2	45.4							10.0
12.0	76.7	77.6	76.8	77.5	76.8	77.6	76.8	58.5	53.6	45.4	36	27.5					12.0
14.0		64.8	63.7	64.7	63.7	64.7	65.7	53.9	47	42.5	34.9	27.5	21				14.0
16.0		54.7	55	55	53.7	56.2	55.7	50.7	41.3	37.6	33.6	27.5	21	17			16.0
18.0		36.5	47.2	47.5	46	49	48	46.6	36.9	34.1	30.2	27.2	21	17	14.1		18.0
20.0			41.4	41.3	39.8	42.7	41.9	42.8	33	30.4	28.1	25.4	21	17	14.1	11.4	20.0
22.0			36	36.5	34.8	37.7	38.4	37.7	29.5	27.4	26.2	23.6	20	17	14.1	11.4	22.0
24.0				32.6	30.6	33.5	34.5	33.6	27	25.2	24.1	22.1	18.7	16.6	14.1	11.4	24.0
26.0				29.5	27	30	31	30.1	24.7	23.7	22.5	19.6	17.5	15.6	13.7	11.4	26.0
28.0					23.5	27	27.9	27.1	23	22.4	20.3	18.2	16.5	14.7	13	11.4	28.0
30.0					20.5	24	25.2	24.1	20.6	20	19.2	16.9	15.5	13.8	12.2	11.2	30.0
32.0					17.9	21.4	22.6	21.5	19.4	18.7	17	15.9	14.7	13.1	11.8	10.7	32.0
34.0						19.9	20.4	19.3	18.5	17.3	16.1	15	14	12.4	11.3	10.1	34.0
36.0						18.4	18.4	17.4	17.6	16.2	15	14.3	12.7	11.7	10.7	9.6	36.0
38.0							16.7	15.8	16.6	15	14	13.6	11.8	11.1	10.2	9.3	38.0
40.0							15.2	15	15	13.9	13.5	12.7	11.2	10.6	9.7	8.7	40.0
42.0							11.9	14.2	13.7	12.7	12.6	11.9	10.6	10	9.1	8.3	42.0
44.0								13.5	12.4	11.6	11.9	11.2	10.1	9.5	8.7	8	44.0
46.0								12.3	11.3	11.2	11	10.5	9.4	8.9	8.4	7.6	46.0
48.0									10.3	10.8	9.7	9.6	8.8	8.4	7.8	7.2	48.0
50.0									9.4	9.9	8.6	8.6	8.4	8	7.4	6.9	50.0
52.0									6.1	9.1	8.3	7.8	7.9	7.5	7	6.5	52.0
54.0										8.3	7.8	7.2	7.3	7.1	6.8	6.2	54.0
56.0										7.6	7.2	6.9	6.4	6.4	6.5	6	56.0
58.0											6.6	6.1	6.2	6	6	5.7	58.0
60.0											6.2	5.5	5.8	5.7	5.4	5.3	60.0
62.0											3.3	4.9	5.2	5.6	4.8	4.8	62.0
64.0												4.4	4.7	5	4.2	4.3	64.0
66.0												4	4.3	4.4	3.7	3.8	66.0
68.0													4	4	3.2	3.3	68.0
70.0														3.6	3.4	2.9	70.0
72.0															3	2.6	72.0
74.0															2.6	2.1	74.0
76.0																1.8	76.0

Note: * Indicates that additional equipment is required

备注: *表示吊载需附加装置

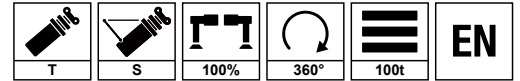
Operating Range - Telescopic Boom + Superlift Device (TS)

起升高度曲线 - 主臂 + 超起



Load Chart - Telescopic Boom + Superlift Device (TS)

性能表 - 主臂 + 超起

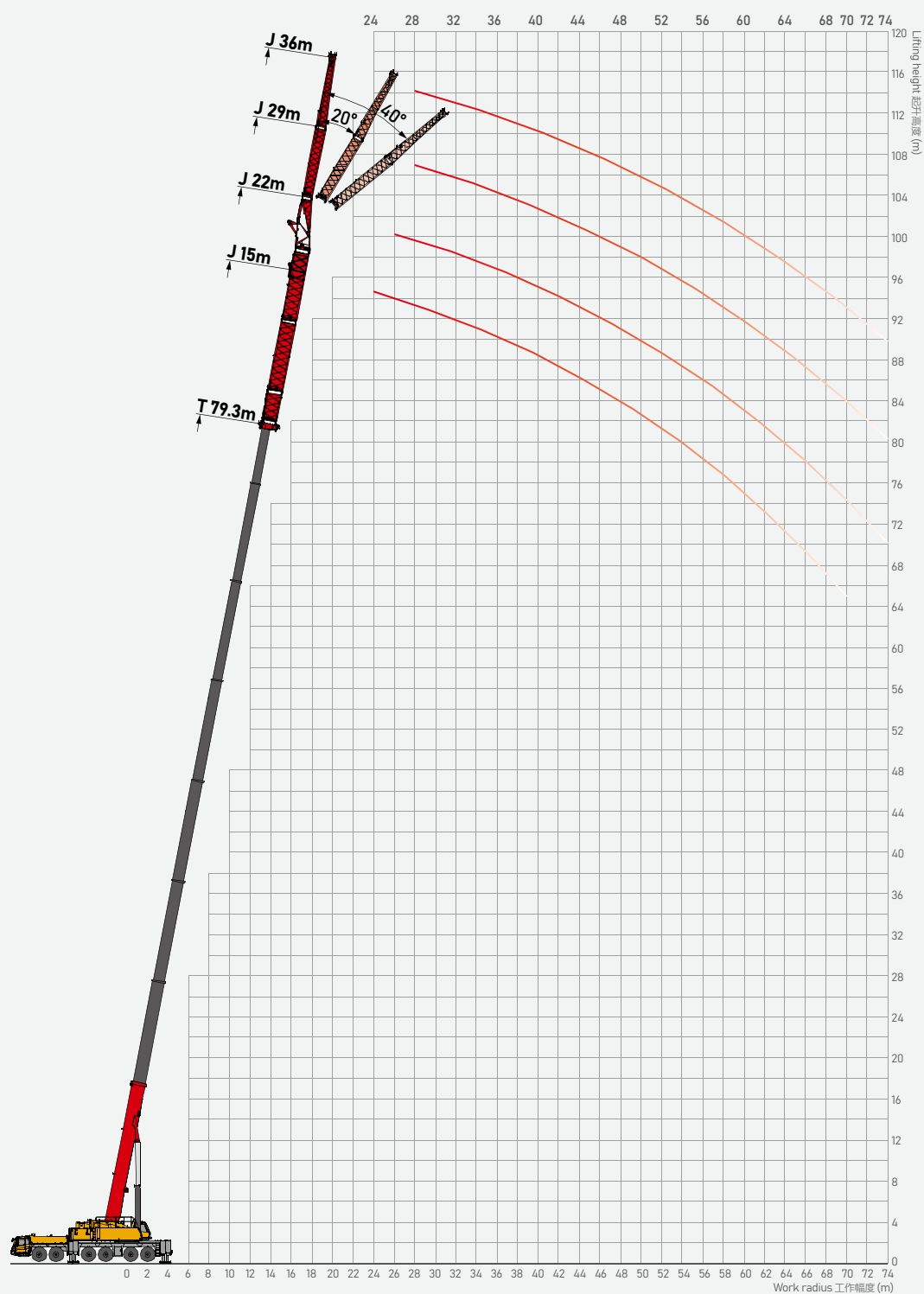


Unit: t

	39.3	44.9	49.6	54.6	59.2	64.1	69.1	74.1	79	84	90	
6.0	80.7											6.0
7.0	77.9	77.2										7.0
8.0	75.7	77.2	70.7									8.0
9.0	73.2	74.3	71.7	65.2								9.0
10.0	71	72.2	70	64.5	60.1	56						10.0
12.0	67	66.2	65.6	61.3	58.6	53.4	47.8	41.8				12.0
14.0	63.2	60.5	58.6	56	54.5	52	47.7	39.7	34.8	27.4		14.0
16.0	57.3	55.8	55.1	51.5	48.7	47	44	38.1	33.3	27.4	19.6	16.0
18.0	50.1	49.4	49	48.2	45.4	42.7	39	34.4	30.7	26.5	19.6	18.0
20.0	43.9	44.3	44	42.4	41.4	38.6	35.8	32.1	28.8	25	19.6	20.0
22.0	38.9	39.2	39.1	38.5	36.8	35.8	33.1	30.1	27.3	23.7	19.6	22.0
24.0	34.7	35	35.2	34.8	33.7	33	31.1	28.3	26	22.6	19.2	24.0
26.0	31.1	31.4	31.7	31.6	31.1	29.8	28.9	26.6	24.7	21.5	18.5	26.0
28.0	28.1	28.4	28.7	28.7	28.4	27.4	26.3	24.8	23.4	20.2	17.8	28.0
30.0	25.4	25.7	26	26	25.9	25.5	24.7	22.9	22.2	19.4	17.1	30.0
32.0	23.1	23.5	23.7	23.7	23.7	23.5	23	21.8	20.5	18.7	16.4	32.0
34.0	21.1	21.5	21.7	21.7	21.7	21.5	21.5	20.5	19.3	18	15.7	34.0
36.0	18.5	19.7	19.8	19.8	19.9	19.6	19.9	18.8	18	17	15.2	36.0
38.0		17.9	18.2	18.2	18.1	17.8	18.1	17	17.1	15.4	14.5	38.0
40.0		16.3	16.6	16.6	16.5	16.2	16.5	15.5	15.7	14	13.9	40.0
42.0		10.3	15.1	15.1	15.1	14.8	15	14	14.2	12.8	12.7	42.0
44.0			13.9	13.8	13.8	13.5	13.8	12.7	12.9	11.6	11.5	44.0
46.0			11.7	12.7	12.6	12.3	12.6	11.6	11.8	10.4	10.5	46.0
48.0				11.6	11.5	11.3	11.5	10.5	10.7	9.4	9.5	48.0
50.0				10.6	10.6	10.3	10.5	9.5	9.7	8.4	8.6	50.0
52.0				4.3	9.7	9.4	9.7	8.6	8.8	7.5	7.7	52.0
54.0					8.9	8.6	8.8	7.8	8	6.8	6.9	54.0
56.0					7.2	7.8	8.1	7.1	7.3	6.1	6.1	56.0
58.0						7.1	7.4	6.4	6.6	5.5	5.5	58.0
60.0						6.5	6.7	5.7	5.9	4.8	4.9	60.0
62.0						1.6	6.1	5.1	5.3	4.2	4.3	62.0
64.0							5.5	4.5	4.7	3.6	3.7	64.0
66.0							3.7	4	4.2	3	3.2	66.0
68.0								3.5	3.7	2.5	2.8	68.0
70.0								3.1	3.2	2	2.2	70.0
72.0									2.8	1.5	1.7	72.0

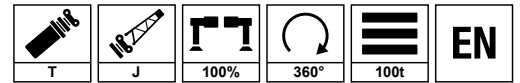
Operating Range - Telescopic Boom + Fixed Jib (TJ)

起升高度曲线 - 主臂 + 副臂



Load Chart - Telescopic Boom + Fixed Jib (TJ)

性能表 - 主臂 + 副臂

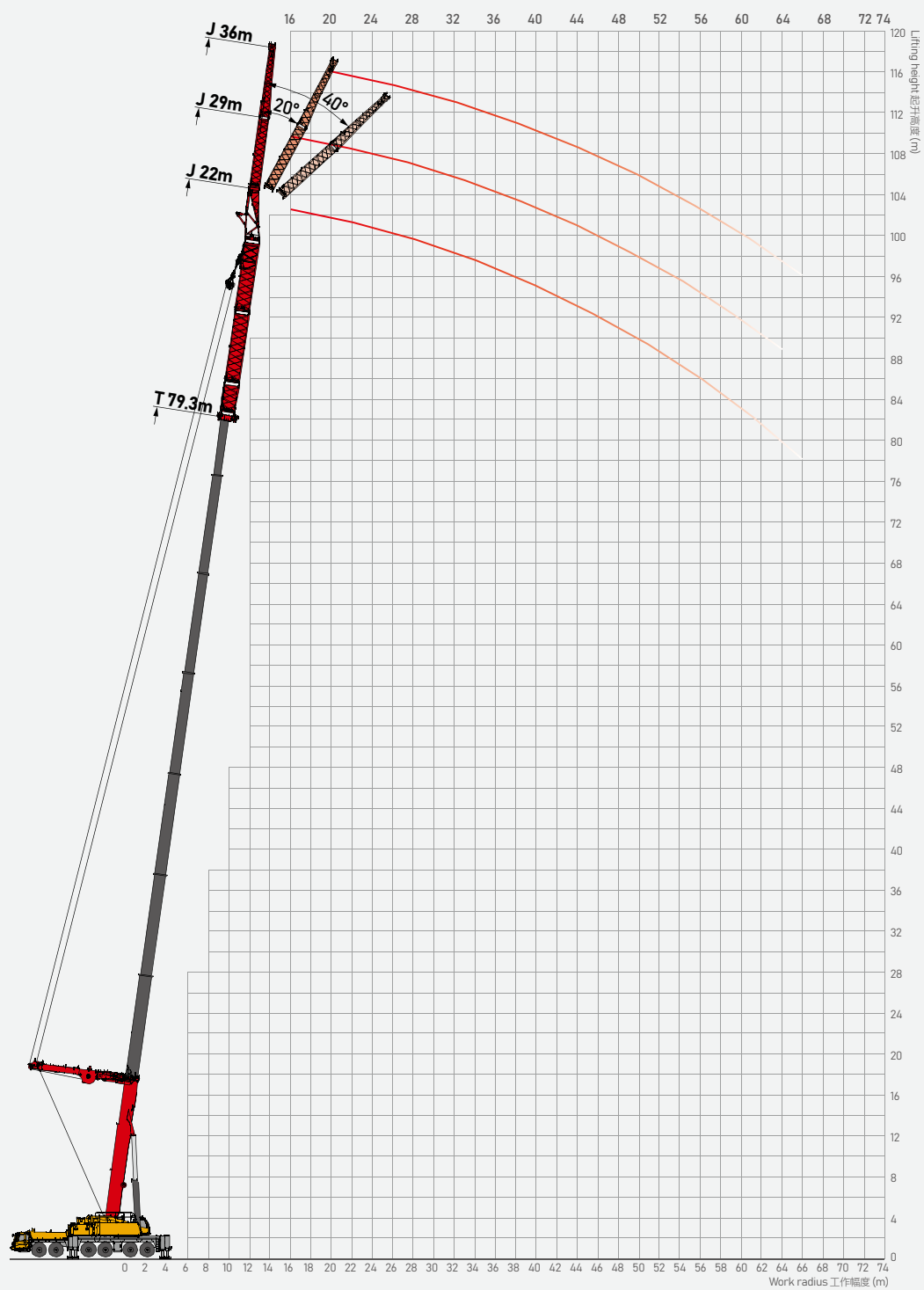


Unit: t

	74.4				79.3				
	15	22	29	36	15	22	29	36	
14.0									14.0
16.0									16.0
18.0									18.0
20.0									20.0
22.0									22.0
24.0	9.0				7.4				24.0
26.0	8.8	6.9			7.3	5.7			26.0
28.0	8.5	6.8	5.1		7.2	5.7	4.3		28.0
30.0	8.0	6.7	5.0		7.1	5.7	4.2		30.0
32.0	7.8	6.6	4.9	3.5	7.0	5.7	4.1	3.2	32.0
34.0	7.6	6.5	4.8	3.5	6.9	5.7	4.0	3.2	34.0
36.0	7.4	6.4	4.7	3.5	6.7	5.7	3.9	3.2	36.0
38.0	7.1	6.3	4.6	3.5	6.5	5.7	3.8	3.2	38.0
40.0	6.9	6.2	4.5	3.5	6.3	5.7	3.7	3.2	40.0
42.0	6.7	6.1	4.4	3.5	6.1	5.7	3.6	3.2	42.0
44.0	6.4	6.0	4.3	3.5	5.9	5.7	3.5	3.2	44.0
46.0	6.2	5.9	4.2	3.5	5.6	5.5	3.4	3.2	46.0
48.0	6.0	5.7	4.1	3.3	5.4	5.2	3.3	3.0	48.0
50.0	5.7	5.2	4.0	3.2	5.2	4.7	3.2	2.9	50.0
52.0	5.5	4.9	3.9	3.1	5.0	4.4	3.1	2.8	52.0
54.0	5.3	4.6	3.6	3.0	4.8	4.2	3.0	2.7	54.0
56.0	5.1	4.4	3.5	2.9	4.6	4.0	2.9	2.6	56.0
58.0	4.8	4.2	3.4	2.8	4.4	3.8	2.8	2.6	58.0
60.0	4.6	4.0	3.3	2.7	4.2	3.6	2.7	2.5	60.0
62.0	4.1	3.6	3.2	2.6	4.0	3.3	2.6	2.4	62.0
64.0	3.6	3.4	3.1	2.4	3.6	3.1	2.5	2.2	64.0
66.0	3.1	3.1	3.0	2.2	3.2	2.9	2.4	2.0	66.0
68.0	2.6	2.6	2.8	2.1	2.8	2.7	2.3	1.9	68.0
70.0	2.2	2.2	2.4	2.0	2.2	2.4	2.2	1.8	70.0
72.0		1.8	2.0	1.8		2.0	2.0	1.6	72.0
74.0			1.6	1.7		1.6	1.7	1.5	74.0
76.0				1.5					76.0

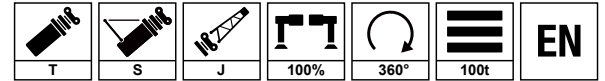
Operating Range - Telescopic Boom + Fixed Jib + Superlift Device (TSJ)

起升高度曲线 - 主臂 + 副臂 + 超起



Load Chart - Telescopic Boom + Fixed Jib + Superlift Device (TSJ)

性能表 - 主臂 + 副臂 + 超起



Unit: t

	64.6				69.5				74.4				79.3				
	22	29	36	43	22	29	36	43	22	29	36	43	22	29	36	43	
14.0	20.3				18.4				17.2								14.0
16.0	19.4	15.2			17.6	13.8			16.4	12.5			15.3				16.0
18.0	18.5	15.2			16.8	13.8			15.9	12.5			14.4	11.4			18.0
20.0	17.5	14.5	10.5		15.9	13.2	9.2		15.2	12.0	8.7		12.7	11.4	7.9		20.0
22.0	16.7	14.1	9.9	6.5	15.1	12.8	8.6	6.2	14.6	11.7	8.2	5.9	12.1	10.9	7.4	5.5	22.0
24.0	16.1	13.7	9.2	6.4	14.7	12.5	8.4	6.1	14.0	11.3	7.6	5.8	11.5	10.6	6.9	5.4	24.0
26.0	15.2	13.2	8.6	6.3	13.9	12.0	7.8	6.0	13.4	10.9	7.1	5.7	11.0	10.3	6.4	5.3	26.0
28.0	14.7	12.5	7.9	6.2	13.4	11.4	7.2	5.9	12.6	10.3	6.5	5.6	10.5	9.9	5.9	5.2	28.0
30.0	13.8	11.9	7.6	6.1	12.6	10.8	6.9	5.8	12.1	9.8	6.3	5.5	10.2	9.4	5.7	5.1	30.0
32.0	13.3	11.2	7.4	6.0	12.1	10.2	6.7	5.7	11.6	9.3	6.1	5.4	9.8	8.9	5.5	5.0	32.0
34.0	12.7	10.5	7.1	5.9	11.6	9.6	6.5	5.6	11.2	8.7	5.9	5.3	9.5	8.4	5.3	4.9	34.0
36.0	12.0	9.9	6.9	5.8	10.9	9.0	6.2	5.5	10.8	8.2	5.7	5.2	9.2	7.9	5.1	4.8	36.0
38.0	11.1	9.2	6.6	5.7	10.1	8.4	6.0	5.4	10.3	7.6	5.4	5.1	9.0	7.4	5.0	4.7	38.0
40.0	9.9	8.6	6.2	5.6	9.0	7.8	5.6	5.3	9.3	7.1	5.1	4.9	8.6	6.9	4.7	4.6	40.0
42.0	8.8	7.9	5.9	5.5	8.0	7.2	5.4	5.2	8.3	6.5	4.9	4.7	7.7	6.4	4.5	4.2	42.0
44.0	7.9	7.4	5.5	5.2	7.2	6.7	5.0	4.8	7.4	6.1	4.6	4.4	6.9	5.9	4.2	4.0	44.0
46.0	7.0	6.9	5.3	4.9	6.3	6.2	4.8	4.4	6.6	5.7	4.4	4.0	6.1	5.5	4.0	3.7	46.0
48.0	6.2	6.6	5.0	4.6	5.6	6.0	4.6	4.2	5.8	5.4	4.1	3.8	5.4	5.1	3.8	3.5	48.0
50.0	5.4	5.9	4.7	4.3	5.0	5.4	4.3	3.9	5.2	4.9	3.9	3.6	4.9	5.0	3.6	3.2	50.0
52.0	4.8	5.3	4.5	4.2	4.4	4.8	4.1	3.8	4.6	4.4	3.7	3.4	4.3	4.5	3.4	3.1	52.0
54.0	4.1	4.5	4.2	3.9	3.8	4.1	3.8	3.5	4.1	3.7	3.5	3.2	3.8	4.0	3.2	2.9	54.0
56.0	3.6	4.0	4.0	3.6	3.3	3.6	3.6	3.3	3.5	3.3	3.3	3.0	3.3	3.4	3.0	2.7	56.0
58.0	3.0	3.3	3.6	3.4	2.8	3.0	3.2	3.1	3.0	2.7	2.9	2.9	2.8	3.0	2.7	2.6	58.0
60.0	2.7	2.9	3.3	3.3	2.5	2.6	3.0	3.0	2.7	2.4	2.7	2.7	2.6	2.5	2.5	2.5	60.0
62.0	2.5	2.5	3.0	3.2	2.3	2.3	2.8	2.9	2.5	2.1	2.5	2.6	2.4	2.2	2.3	2.4	62.0
64.0	2.3	2.2	2.8	3.3	2.1	2.0	2.5	3.0	2.3	1.9	2.3	2.7	2.2	1.9	2.1	2.5	64.0
66.0	1.8		2.6	3.2	1.7		2.4	2.9	1.8		2.2	2.6	2.0	1.7	2.0	2.4	66.0
68.0			2.5	3.0			2.3	2.7			2.1	2.5				2.3	68.0
70.0			2.3	2.7			2.0	2.5			2.0	2.2				2.0	70.0
72.0				2.4				1.8				1.7				1.5	72.0
74.0				2.0				1.5									74.0



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