



STB650T5-E

SANY TELESCOPIC BOOM
CRAWLER CRANE

三一伸缩臂履带起重机



■ www.sanygroup.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.

推介书内的参数、图片和配置仅供参考，实际配置以实物为准。

V1.0

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01

Introduce

整机优势



46m

Max. boom length
最长主臂

46m+16m

Max. boom+jib length
最长主臂 + 副臂

230t·m

Max. lifting moment
最大起重力矩

Powerful Performance 性能强

- Strong performance under typical configurations with lower load rates.
- Large 75-ton chassis ensures stable maneuverability even when loaded.
- 典型工况性能强，负载率更低；
- 75吨级大底盘，带载行走更稳定。

Low Maintenance 低运维

- Remote control of getting on and off via mobile app, with real-time display of ground pressure, ensuring operator and crane safety.
- Equipped standard with sky-eye system for intelligent management and closer supervision.
- Self-diagnosis of faults allows for immediate troubleshooting.
- 手机APP遥控上下车，接地比压实时显示，人机安全有保障；
- 标配天眼系统，智慧管理更贴心；
- 故障自诊断，故障秒处理。

Enhanced Comfort 更舒适

- Supports voice-assisted control to free up operators' hands.
- Seat positions are fully adjustable for all-day comfort without fatigue.
- Mobile bluetooth connectivity, in-vehicle phone, and weather forecasts provide enhanced comfort and entertainment.
- 支持辅助语音控制，解放双手；
- 座椅位置随心调，工作一天不疲劳；
- 手机蓝牙、车载电话、天气预报，娱乐更舒心。

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CRAWLER CRANE





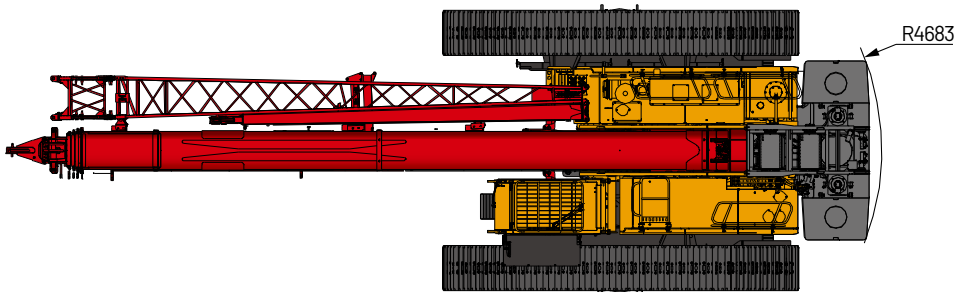
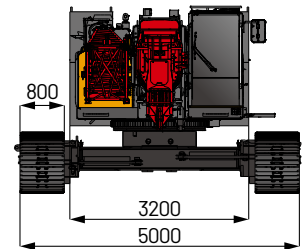
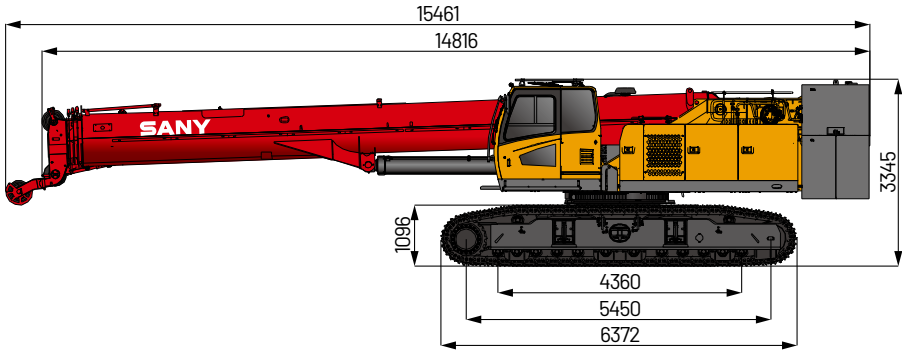
02

Outline Dimension

整机基本尺寸

STB650T5-E

Unit: mm



03 | Main Performance Parameters

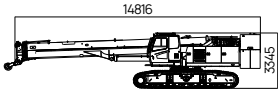
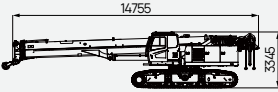
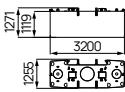
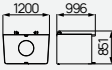
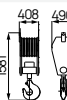
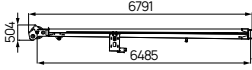
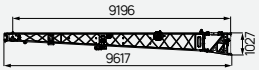
主要性能参数

Performance Indicators 项目	Unit 单位	Parameters 参数
Outline dimension 外形尺寸		
Full length of the whole crane 整机全长	mm	14816
Width of the whole machine (retracted) 整机宽度(缩回)	mm	5000(3200)
Height of the whole machine 整机高度	mm	3345
Center distance of driving and engaged wheels 主、从动轮中心距	mm	5450
Width of track shoe 履带板宽度	mm	800
H configuration 主臂工况		
Maximum rated lifting capacity 最大额定起重量	t	65
Boom length 主臂长度	m	11.88~46
Boom angle 主臂角度	°	-2~78
Maximum rated lifting moment 最大额定起重力矩	t·m	230
FJ configuration 固定副臂工况		
Longest boom + longest jib 最长主臂+最长副臂	m	46+16
Boom to jib angle 主、副臂夹角	°	0、15、30
Operation speed 工作速度		
Rope speed of main/aux. load hoist 主副卷扬绳速	m/min	0~140
Time to fully boom up/down 起重臂全起/落时间	s	75/75
Time to fully extend/retract boom 起重臂全伸/缩时间	s	110/120
Slewing speed 回转速度	rpm	0~2
No-load traveling speed 空载行走速度	km/h	0~2.5
Engine 发动机		
Model 型号	-	Weichai WP8G320E670-235KWStage V 潍柴WP8G320E670-235KWStage V
Rated power 额定功率	kW/rpm	235/2100
Wire rope 钢丝绳		
Diameter 直径	mm	Φ18
Transportation parameters 运输参数		
Weight of the whole machine 整机重量	t	64.3(with main hook, aux. hook, without attachment parts) (含主、副钩, 不含随机备件)
Maximum weight of single piece transportation 最大单件运输重量	t	43.7(remove counterweight, jib, main and aux hooks) (拆配重、副臂、主、副钩)
Transportation dimension (length × width × height) 运输尺寸(长 × 宽 × 高)	mm	14816 × 3200 × 3345
Other parameters 其他参数		
Average ground pressure 平均接地比压	MPa	0.07
Min. slewing radius 最小回转半径	mm	4683

04

Transport Dimension

部件运输尺寸

NO. 序号	Name 名称	Shape 形状	Length 长(m)	Width 宽(m)	Height 高(m)	Weight 单件重量(t)	Qty 数量
1	Overall crane 整机		14.82	3.20	3.35	64.3	1
2	Basic machine (without counterweight, jib, hook) 本体(不带配重、副臂、吊钩)		14.76	3.20	3.35	43.7	1
3	Counterweight tray 配重托盘		3.20	1.26	1.27	12.0	1
4	Rear counterweight 后配重块		1.20	1.00	0.85	3.5	2
5	65t hook 65t吊钩		0.41	0.49	1.58	0.6	1
6	5t hook 5t吊钩		0.24	0.24	0.66	0.1	1
7	6.5m Boom/jib frame 6.5m 臂架		6.79	0.36	0.50	0.24	1
8	9.2m Boom/jib frame 9.2m 臂架		9.61	1.02	0.80	0.68	1

Note:

① The component transportation dimension is schematic diagram, and is not drawn to scale. The marked dimension is design value, excluding the package.

② The weight is design value, which may be slightly different because of manufacturing tolerance. The total weight of rear counterweight is 19t, and the lowerworks counterweight is 0t.

③ After product upgrading of the Company, the outline dimension and weight of the components above may vary, and the new product shall prevail.

注释:

① 此零部件运输尺寸为示意图, 未按比例绘制, 所标尺寸为设计值, 不包括包装。

② 重量为设计值, 由于制造误差, 可能稍有不同, 后配重总重量19t, 下车配重 0t。

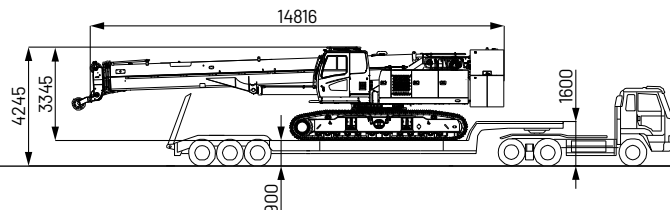
③ 本公司产品升级换代后, 以上部件外形尺寸及重量可能发生变动, 最终以新产品为准。

05 | Transport Plan

运输方案

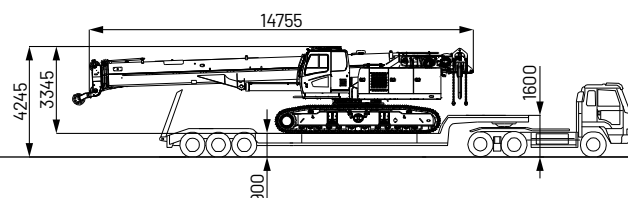
1 Transport Plan A 运输方案一

Trailer 运输车 1	▪ 14.82m × 3.2m × 3.35m (L × W × H)
Parts 包含部件	▪ Overall crane 整机
Transport weight 运输重量	▪ 64.3t

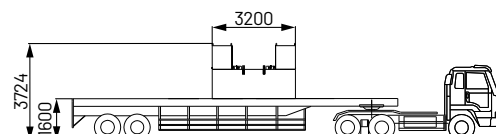


2 Transport Plan B 运输方案二

Trailer 运输车 1	▪ 14.76m × 3.2m × 3.35m (L × W × H)
Parts 包含部件	▪ Basic machine (without counterweight) ▪ 起重机主体 (拆除配重)
Transport weight 运输重量	▪ 45.3t

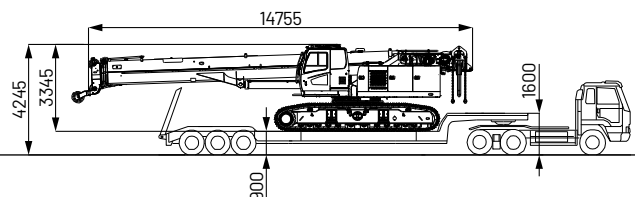


Trailer 运输车 2	▪ 3.2m × 1.26m × 2.1m (L × W × H)
Parts 包含部件	▪ Rear counterweight of basic machine ▪ 主机后配重
Transport weight 运输重量	▪ 19t

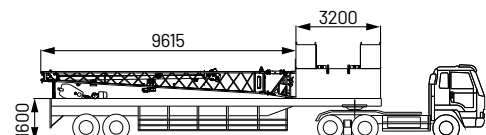


3 Transport Plan C 运输方案三

Trailer 运输车 1	▪ 14.76m × 3.2m × 3.35m (L × W × H)
Parts 包含部件	▪ Basic machine (without counterweight, hook, and jib) ▪ 主机 (拆除配重、吊钩、副臂)
Transport weight 运输重量	▪ 43.7t



Trailer 运输车 2	▪ 3.2m × 1.26m × 2.1m (L × W × H)
Parts 包含部件	▪ Counterweight 配重 ▪ Hook 吊钩 ▪ Jib 副臂
Transport weight 运输重量	▪ 20.6t



06

Main Characteristics

主要特性

1

Product Specification 产品规格

Engine 发动机

- Model: WP8G320E670 diesel engine.
- Type: Four-stroke, water cooling, straight 6-cylinder, direct injection, turbo supercharging, inter-cooling. Meet Off-highway Emission Regulation of Europe (Stage V).
- Displacement: 7.47L.
- Rated power: 235kW/2100rpm.
- Maximum torque: 1300N·m/1200~1600rpm.
- Starting device: 24V-8kW.
- Radiator: Aluminium sheet fin type radiator core.
- Air filter: Dry type air filter system, fitted with main filter element, safety filter element and resistance indicator.
- Hand throttle: Gear type hand throttle, electric.
- Fuel filter: Replaceable paper filter element.
- Batteries: Two 12V × 165Ah capacity batteries, connected in series.
- Fuel tank: 400L.
- 型号：潍柴WP8G320E670柴油发动机；
- 类型：四冲程，水冷，直列6缸，直喷，涡轮增压，中冷。满足欧五排放标准；
- 排量：7.47L；
- 额定功率：235kW/2100rpm；
- 最大扭矩：1300N·m/1200~1600rpm；
- 启动装置：24V-8kW；
- 散热器：铝板翅式散热器芯体；
- 空气滤清器：干式空滤系统带有主滤芯、安全滤芯和压差传感器；
- 手油门：档位式手油门，电动；
- 燃油滤清器：可更换纸质滤芯；
- 蓄电池：2个12V × 165Ah容量电池，串联；
- 燃油箱：400L。

Electrical control system 电气控制系统

- Adopt SYIC-III integrated control system independently researched and developed by Sany. This system is featured by high integration level, accurate operation and reliable quality.
- Control system: Composed of power system, engine system, main control system, LMI, auxiliary system and safety monitoring system. Data communication among controller, display and engine is conducted by CAN bus technology.
- Display: It can display the engine rotating speed, fuel volume, engine oil pressure, servo pressure, engine working time, load weight, boom angle and other working parameters and conditions.
- 采用全新一代自主研发的SYIC-III集成控制系统，系统集成度高，操作精准，质量可靠；
- 控制系统：由电源系统、发动机系统、主控制系统、力矩限制器系统、辅助系统以及安全监控等系统组成。控制器、显示器、发动机之间应用CAN总线技术进行数据通讯；
- 显示器：可显示发动机转速、燃油量、机油压力、伺服压力、发动机工作时间、吊重情况和臂架角度等工作参数及工作状态。

Hydraulic system 液压系统

- Main pump: Adopt open piston pump with large variable displacement, providing oil supply to the main actuator.
- Gear pump: Dual-gear pump for slewing and control circuit.
- Control: The main pump adopts the control type of electrically proportionate positive flow, and the winch motor is piston motor with variable displacement. The operating components are two hydraulically-controlled cross handles, one hydraulic control pedal valve for boom telescoping, and one dual-gear pedal control valve for travel, to control each actuator proportionally.
- Way of cooling: Heat exchanger, fan core and multi-stage cooling.
- Filter: Large flow, high accuracy filter, with bypass valve and indicator, which can remind the user to replace the filter element in time.
- Main/aux. load hoist and travel system: 32MPa.
- Boom hoist cylinder lifting: 32MPa.
- Slewing system: 24MPa.
- Control system: 4.5MPa.
- Hydraulic oil tank capacity: 740L.
- 主泵：采用大排量开式变量柱塞泵，为整机主执行元件提供油源；
- 齿轮泵：双联齿轮泵，用于回转和控制回路；
- 控制：主泵采用电比例正流量控制，卷扬马达采用变量柱塞马达；
- 冷却方式：空冷热交换器，翅式内芯，采用多级冷却；
- 过滤器：大流量、高过滤精度过滤器，带旁通阀和发讯器，可提醒及时更换滤芯；
- 系统最大压力：
主、副提升和行走系统：32Mpa；
变幅油缸提升：32Mpa；
回转系统：24Mpa；
控制系统：4.5Mpa。
- 液压油箱容量：740L。

Main and auxiliary lifting mechanism 主、副提升机构

- Pump and motor: Energy-efficient, combination of winch balance valve and anti-hook-sliding technology, lifting or lowering the load steadily.
- Winch brake adopts wet type and spring loaded fin type normally engaged brake, spring force braking, oil pressure released.
- Main and aux. load hoist winches adopt piston motor of fixed displacement to drive planetary reducer.
- 泵、马达：高效节能，卷扬平衡阀、防溜钩技术结合，重物起落平稳；
- 卷扬制动器：采用湿式、弹簧加载片式常闭制动器，弹簧力制动，油压解除；
- 主、副提升采用变量柱塞马达驱动行星减速机。

Main load hoist mechanism 主提升机构	Rope speed (outermost layer) 绳速(最外层)	0~140m/min
	Diameter of wire rope 钢丝绳直径	Φ18mm
	Overall length of wire rope 钢丝绳总长	240m
	Rated line pull of single rope 额定单绳拉力	5.9t
Auxiliary load hoist mechanism 副提升机构	Rope speed (outermost layer) 绳速(最外层)	0~140m/min
	Diameter of wire rope 钢丝绳直径	Φ18mm
	Overall length of wire rope 钢丝绳总长	135m
	Rated line pull of single rope 额定单绳拉力	5.9t

06 | Main Characteristics

主要特性

1 Product Specification 产品规格

Luffing mechanism 变幅机构

- Double acting single piston rod hydraulic cylinder, fitted with safety balance valve, luffing angle: $-2^{\circ}\sim 78^{\circ}$, adopting deadweight luffing system to reduce the energy consumption and improve the steadiness of luffing operation.
- 双作用单活塞杆液压缸，带安全平衡阀，变幅角度： $-2^{\circ}\sim 78^{\circ}$ ，采用自重落幅系统，降低能耗，提高落幅操作的平稳性。

Slewing mechanism 回转机构

- Slewing brake adopts wet type and spring loaded fin type normally engaged brake, spring force braking.
- With integrated cushion valve, the slewing system has free slip function to realize steady slewing start and control, showing inching performance.
- Unique slewing cushion design ensures more stable braking.
- Slewing drive: External gearing slewing drive, capable of conducting 360° rotation, maximum rotation speed $2r/min$. The maximum driving pressure can reach $24MPa$.
- Slewing lock: Cylinder lock device can make sure the superstructure can be locked in the front and behind after the work is done or during transport, which is more convenient and reliable.
- Slewing bearing: Single row ball type bearing.
- 回转制动采用湿式、弹簧加载片式常闭制动器，弹簧力制动；
- 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；
- 独特的回转缓冲设计，制动更平稳；
- 回转驱动：外啮合式回转驱动，可进行 360° 回转，最大回转速度 $2r/min$ 。最大驱动压力可达 $24MPa$ ；
- 回转锁定：具有回转锁定装置，保证在工作完毕或运输时，上车能在前方或后方锁定，方便可靠；
- 回转支承：单排球式回转支承。

Counterweight 配重

- Block-type counterweight is easy to assemble and disassemble. The self-assembly function is realized for easier transportation.
- The counterweight tray and blocks are stacked in a way that is easy to assemble, disassemble and transport.
- Rear counterweight: Total $19t$, with self-assembly function.
- The load charts of lifting without counterweights is available.
- 组合式配重块便于组合和拆装，可实现自装卸，运输更方便；
- 采用托盘、配重块的叠加方式，便于组合和拆装、运输；
- 后配重：总重量 $19t$ ，标配配重自装卸功能；
- 提供不带配重吊载的分级载荷表。

Superstructure 上车结构

- High strength steel welding frame structure, no torsional deformation, reasonable component layout, and convenient maintenance service.
- 高强度钢焊接框架结构，无变形扭转，零部件布局合理，便于维护服务。

Cab and control 驾驶室与控制

- Novelty in cab design, artistic modeling and trim and large area glass window with a tilt angle of 20° to broaden horizon; fitted with low beam headlamp and rearview mirror to broaden horizon; installed with air conditioner and radio; the arrangement of seats, control handle and various control buttons is ergonomically designed to enable more conformable operation.
- Cabin features include dual large touch screens, one-touch engine start/stop for convenience, and a new human-machine interface providing an automotive-level operational experience.
- Armrest box: Operation handle, electrical switch, emergency stop switch and ignition switch are installed on the left and right armrest boxes. The armrest box can be adjusted with the seat.
- Seat: Suspension type multi-mode multi-level regulated seat, fitted with unloading switch.
- Air conditioning adapts to environmental temperatures with surround air ducts for enhanced comfort.
- The display can connect to up to 9 video channels for comprehensive monitoring of the winch, right-side track pads, and rear counterweights, with video follow-switch technology for clearer images.
- 新颖设计的驾驶室，造型、内饰美观，大面积玻璃窗，可上仰 20° 视野更开阔；带有近光前照灯、后视镜，视野更加开阔；安装有冷暖空调、收音机；座椅、操纵手柄、各控制按钮布置均按人机工程学设计，使操作更舒适；
- 驾驶室配置：采用大尺寸两联触摸屏，发动机一键启停，操作更方便；全新人机对话界面，汽车级操作体验；
- 扶手箱：左、右扶手箱上安装操纵手柄、电气开关、急停开关等。扶手箱可以随座椅进行调节；
- 座椅：悬浮式、多方式多级调节型座椅，带卸荷开关；
- 空调：自适应环境温度，环绕风道，更加舒适；
- 显示器最大可接入9路视频，卷扬、右侧履带板、配重后方全方位监控，视频跟随切换技术，画面更清晰。

06

Main Characteristics

主要特性

1

Product Specification 产品规格

Traveling drive 行走驱动

- Independent traveling drive device is adopted for each side of crawler frame, so as to realize straight travel, turning through reducer and drive wheel by travel motor. And the machine is capable of automatically pick up the direction of dead ahead.
- Traveling speed: The traveling can be switched between high speed and low speed, and the high speed can be up to 2.5km/h;
- Gradeability: 45%.
- 两侧履带架采用独立的行走驱动装置。由行走马达通过减速机、驱动轮来实现整机直线行走、转向，具有自动换向功能；
- 行走速度：行走具有快慢速切换功能，快速可达2.5km/h；
- 爬坡能力：45%。

Traveling braking 行走制动

- Concealed wet type and spring loaded fin type normally engaged brake, spring force braking, oil pressure released.
- 内藏、湿式、弹簧加载片式常闭制动器，弹簧力制动，油压解除。

Telescopic crawler 履带伸缩

- The extension and retraction of crawler frames are realized through cylinder. The crawlers are extended at work and retracted for transport with the whole basic machine.
- The crawler is allowed fully extended or retracted during work, the respective load charts offered.
- 通过油缸伸缩实现履带架伸出展开和缩回，正常工作时履带处于展开状态，运输时可以缩回履带整体运输；
- 允许履带架在全伸、全缩状态下工作,提供两种状态的分级载荷表。

Crawler tensioning 履带张紧

- Features a spring tensioning device assisted by aux. hydraulic cylinders, adjustable by injecting grease, providing cushioning and protection during movement.
- 带有辅助液压缸的弹簧张紧装置，通过充注黄油调节张紧度，弹簧可以在行驶过程中起到缓冲和保护的作用。

Steering system 转向系统

- It can realize single track turning and pivot turning.
- 可实现单腿转向和原地转向。

Track shoe 履带板

- Excavator-style triple-grouser track pads made from high-strength alloy cast steel offer greater traction and longer life, suitable for various harsh terrain conditions.
- 800mm wide, 60 pieces × 2.
- 采用挖机三筋式链轨节履带板，材料为高强度合金铸钢，抓地力更强，寿命更长，能适应各种恶劣路面环境。宽度800mm，数量60块×2。

Track roller 支重轮

- Maintenance-free track roller.
- 免维护支重轮。

Boom 主臂

- The boom is made of high-strength steel structure with U-shape section area, with five sections, of which the basic boom is 11.88m and the max. boom length is 46m.
- Dual cylinder full power rope row for telescoping.
- U形截面高强度结构钢起重臂，五节臂，基本臂11.88m，最大臂长46m；
- 双缸绳排伸缩方式。

Fixed jib 固定副臂

- Two FJ configurations: 9.2m and 16m respectively.
- Installation angle includes 0°, 15° and 30°.
- 两种副臂工况，分别为9.2m和16m，安装角度为0°、15°、30°。

Boom tip pulley 臂尖滑轮

- Welding structure, connected with the boom through pin, and used for auxiliary hook operation.
- 焊接结构，通过销轴与主臂联结，用于副钩作业。

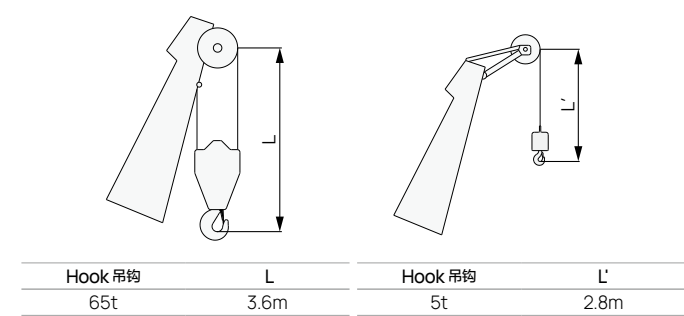
Lifting hook 吊钩

- Specific parameters are as follows:
- 具体参数如下：

Name 吊钩名称	Max. capacity 最大吊重量 (t)	Quantity 数量	Pulley block 滑轮组	Weight 重量 (t)
65t hook 吊钩	65	1	6	0.6
5t hook 吊钩	5	1	1	0.1

Note: the above-mentioned operating equipment is full-up configuration.
The actual configurations are subject to contract.
注释：以上作业设备配置为全配置，具体配置以订货合同为准。

Hook height limit 吊钩高度限位图



06 | Main Characteristics

主要特性

2 Safety Devices 安全装置

LMI system 力矩限制器系统

- The integrated LMI system is provided as standard offering to realize calibration-free and high safety and efficiency for equipment control.
- The LMI system can automatically detect the suspended load weight, working radius of the crane and the angle of boom, and compare rated load weight and actual load, working radius and boom angle. Under normal operation condition, it can intelligently judge and automatically cut off the crane action in dangerous direction, and have black box function to record the overload information.
- Its main components include: monitor, controller, length and angle sensor, pressure sensor, etc.
- 高精度力矩限制器系统，免标定，设备施工安全性和效率高；
- 力矩限制器系统自动检测起重机所吊载的重量、工作半径及起重臂所处的角度，比较额定载重量和实际载荷、工作半径以及起重臂角度，在正常操作情况下，可以智能判断并自动切断起重机危险方向动作，并且具有黑匣子功能，记录超载吊重信息；
- 其主要构成为：显示器、控制器、长度角度传感器、压力传感器等。

Assembly/working mode switching switch 安装 / 工作模式切换开关

- The mode switch is primarily used during assembly/disassembly of the main boom or for operations involving getting off the vehicle and handling rear counterweights.
- Boom assembly / disassembly, maintenance and other configurations: release of over-hoist, 0° of boom, auxiliary actions including rear counterweight move, crawler expansion and other auxiliary actions.
- In Work Mode, all safety limiting devices activate to protect the operation.
- 安装模式主要用于大臂拆装模式下或下车及后配重等工况下的使用；
- 大臂拆装、检修、打黄油等工况使用：解除过卷，主臂零角度，辅助动作包括后配重、履带伸缩等辅助动作；
- 工作模式下，所有安全限位装置均起作用。

Emergency stop 紧急停止

- In emergency situation, this button is pressed down to cut off the power supply of the whole machine and all actions stop.
- 紧急情况下，按下紧急停止按钮可以切断整机动力电源，停止全部动作。

Over-hoist protection of the main/auxiliary load hoist 主、副提升防过卷装置

- Height limiter is equipped on the boom/jib tip, which prevents the hook lifting up too much. When the hook is lifted up to the limit height, the limit switch activates, alarm pops up on the monitor, buzzer on the right front control panel sends alarm, failure indicator light starts to flash and the hook hoisting action is cut off automatically.
- 主、副臂臂端配置高度限位器，防止吊钩过度提升。当吊钩提升到高度上限时，高度限位器动作，在显示器中显示报警信息，右前控制面板上的蜂鸣器报警，同时故障指示灯闪烁，吊钩提升动作自动切断。

Over-release protection of the main/auxiliary load hoist 主、副提升防过放装置

- Three-wrap protector is installed on main and aux. load hoist to prevent over-release of wire rope. When the rope is paid out close to the last three wraps, the limit switch acts, and the system sends alarm through buzzer and show the alarm on the monitor, automatically cutting off the winch action.
- 主、副提升配置三圈保护器，防止钢丝绳过放。当钢丝绳放至最后三圈附近时，三圈保护器动作，在显示器中显示报警信息，右前控制面板上的蜂鸣器报警，同时故障指示灯闪烁，自动切断卷扬的下放动作。

Function lock 功能锁定

- If the function lock lever is not in work position, all the other handles won't work, which prevents any mis-operation caused by accidental hitting.
- 司机室座椅左侧配置有功能锁定杆，若功能锁定杆没有就位，所有操作均不起作用，可以避免上、下车时因身体触碰而产生的误操作。

Slewing lock 回转锁定装置

- Electrical lock is provided, which needs to be released for slewing to work, so as to prevent operator accidentally hit the handle and ensure the safety.
- The slewing lock device can lock the upperworks at two directions.
- 具备电气锁定，按下显示屏上的回转锁定解除按钮，才能动作，避免手柄误操作，保证安全性；
- 回转锁定装置，可实现上车在两个方向锁定。

Hook latch 吊钩防脱卡

- The lifting hook is installed with a baffle plate to prevent wire rope from falling off.
- 吊钩上均设有防止钢丝绳脱落的挡板。

GPS monitoring system 监控系统

- Standard remote monitoring system: It can provide functions like GPS locating, GPRS data transfer, machine status inquiry and statistics, operating data monitoring and analysis, and remote diagnosis of failures.
- 标配远程监控：可实现GPS卫星定位，GPRS数据传送，设备使用状态查询、统计，运行数据监测、分析。

06

Main Characteristics

主要特性

2 Safety Devices 安全装置

Tri-color load indicator 三色负载警示灯

- The load indicator light has three colors, i.e., green, yellow and red; and the real time load status is presented on the display.
- When the actual load is smaller than 90% of rated load, the green light is on.
- When the actual load is larger than 90% and smaller than 100%, the yellow light is on, the alarm light flashes and sends out intermittent sirens.
- When the actual load reaches 100% of rated load, the red light is on, the alarm light flashes and sends out continuous sirens.
- When the actual load reaches 102%, the system will automatically cut off the crane's dangerous operation.
- 同步显示即时负载。当实际载荷小于等于额定载荷的90%时，“绿灯”灯亮；
- 当实际载荷大于额定载荷90%而小于等于100%时，“黄灯”灯亮，预警灯闪亮并发出断续报警声；
- 当实际载荷大于额定载荷的100%时，“红灯”灯亮，预警灯闪亮并发出连续报警声；
- 当实际载荷达到额定载荷的102%时，系统自动切断起重机向危险趋势的运行。

Flash alarm 闪光报警器

- When the LMI is powered on, the flash alarm will turn on.
- 集成力矩智能控制系统上电后，闪光报警器闪烁。

Slewing indicator light 回转指示装置

- The slewing indicator lights on both sides of the rear of the left and right platforms flash during traveling or slewing.
- 在行走或回转时，位于左右平台尾部两侧的回转指示灯闪烁。

Seat interlock 离开座位保护

- If the operator leaves the seat, all control handles and switches will be disabled immediately to prevent any mis-operation due to accidental hitting.
- 操作员没有坐在座位上时，所有操纵不起作用，可以有效避免某些误操作。

Illuminating light 照明灯

- The machine is equipped with short-beam light in front of machine, lamps in operator's cab and lighting devices for night operation, as well as boom lights, so as to increase the visibility during operation.
- 配置司机室前方近光灯、司机室内照明灯等夜间照明设备，臂架照明灯，可以提高施工时能见度。

Rearview mirror 后视镜

- It is installed at the front of the operator's cab and at the right handrail of the platform.
- 设置在司机室前方及右平台扶手处。

Level indicator 水平仪

- Electrical level indicator can show the inclination angle of superstructure on the monitor.
- 电子水平仪，可以在显示器上显示上车倾斜角度。

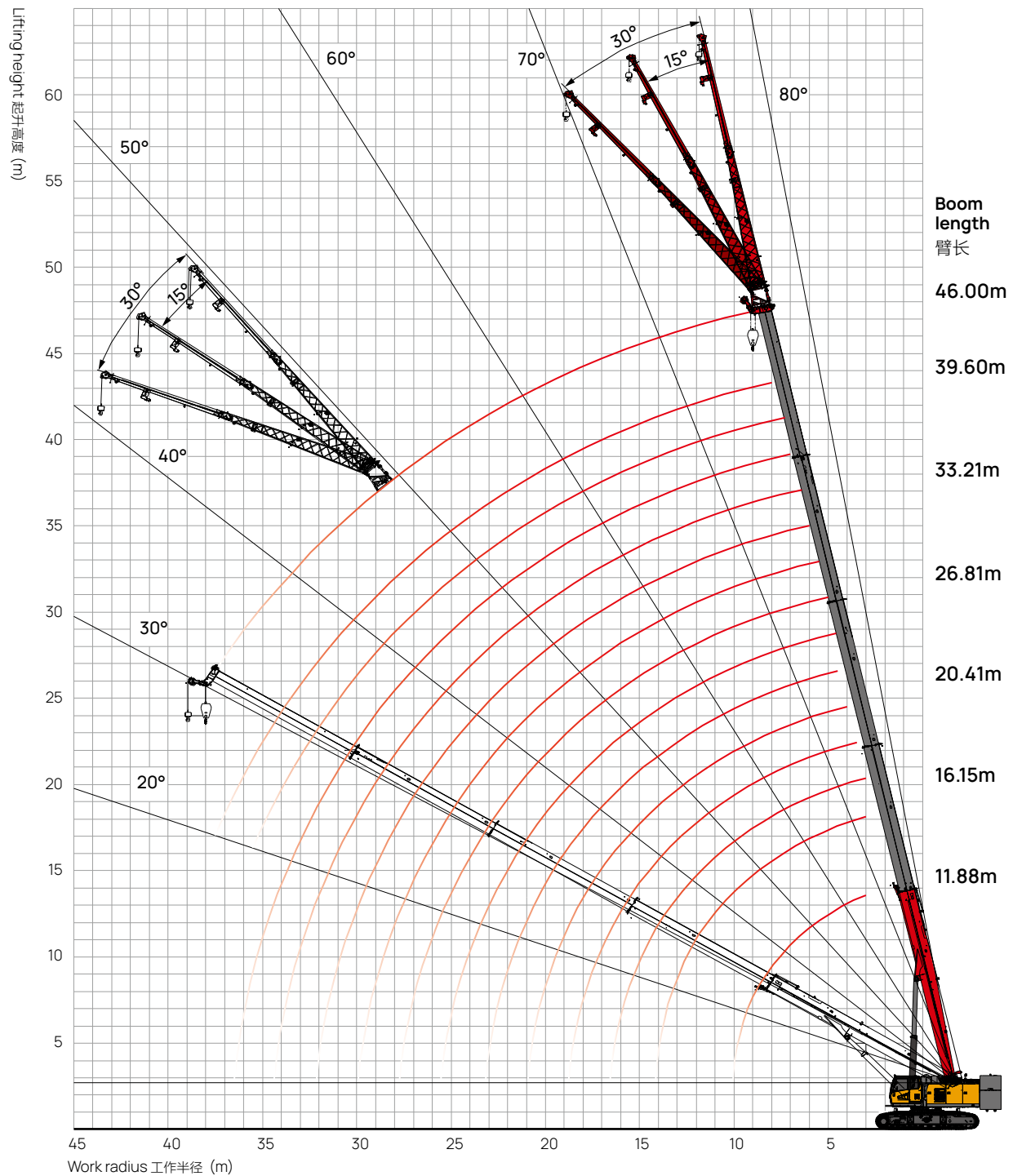
Closed circuit monitoring system 监视系统

- Cameras are installed on the winch box, turntable rear, and the right side machine cover, allowing real-time display of main and auxiliary winches, turntable rear, and right-side track pad monitoring views in the cab.
- 在卷扬箱、转台尾部及右侧机罩分别安装有摄像头，可以在驾驶室内监视器上实时显示主副卷、转台尾部及右侧履带板监控画面。

07

Working Radius-H

工况作业范围图-H+FJ工况



07 | Load Chart-H

工况载荷表-H工况

Unit: t

	Ground level 0.57~1°, Rear counterweight:19t, Wide gauge 地面坡度0.57~1°, 后配重19t, 宽轨											
	11.88	16.15	20.41	23.61	26.81	30.01	33.21	36.40	39.60	42.80	46.00	
3	65	50.6										3
3.5	55	50.6	37									3.5
4	51.5	49.5	37	24.8								4
4.5	49.5	47.9	37	24.8								4.5
5	46	45.4	36.5	24.8	24.8							5
5.5	38	37.5	34	24.8	24.8	24.8						5.5
6	37.2	36	32.9	24.8	24.8	24.8	24.8					6
6.5	31.5	31.5	29.5	24.8	24.8	24.5	23					6.5
7	29	28.5	27.8	24.8	24.8	24.0	23	18.0				7
7.5	26.9	26.4	25.3	24.8	24	21.8	19.5	18.0	16.5			7.5
8	24.1	23.7	23.2	23.0	22.6	21.1	19.1	17.8	16.5	12.7		8
9	19.7	19.3	19	19.6	19.4	18.8	17	15.6	14.2	12.7	11.2	9
10		16.1	15.8	16.5	16.9	16.7	15.8	14.4	13	11.7	10.3	10
11		13.6	13.4	14.0	14.4	14.7	14.5	13.4	12.2	11.0	9.8	11
12		11.6	11.4	12.0	12.4	12.8	13	12.6	11.6	10.6	9.5	12
14			8.4	9.0	9.5	9.8	10.1	10.3	10.4	9.6	8.5	14
16			6.3	6.9	7.3	7.7	7.9	8.2	8.3	8.4	8	16
18				4.9	5.7	6.1	6.3	6.6	6.7	6.9	7	18
20					4.5	4.8	5.1	5.3	5.5	5.6	5.8	20
22					3.5	3.8	4.1	4.3	4.5	4.6	4.8	22
24						2.9	3.3	3.5	3.7	3.8	3.9	24
26							2.6	2.8	3	3.1	3.3	26
28							2	2.2	2.4	2.6	2.7	28
30								1.6	1.9	2.1	2.2	30
32									1.5	1.6	1.8	32
34										1.3	1.4	34
36											1.1	36
38											0.8	38
	12	12	9	8	8	8	5	4	4	4	4	
2#	0	50	100	100	100	100	100	100	100	100	100	2#
3#	0	0	0	12.5	25	37.5	50	62.5	75	87.5	100	3#
4#	0	0	0	12.5	25	37.5	50	62.5	75	87.5	100	4#
5#	0	0	0	12.5	25	37.5	50	62.5	75	87.5	100	5#
	0	0	0	0	0	0	0	9	16	24	30	

07

Load Chart-H

工况载荷表-H工况

Unit: t

	Ground level 0.57~1°, Counterweight:19t, Wide gauge 地面坡度0.57~1°, 后配重19t, 宽轨								
	18.28	24.68	31.07	37.47	22.54	28.94	35.34	41.74	
3	24.8								3
3.5	24.8								3.5
4	24.8				24.8				4
4.5	24.8	24.8			24.8				4.5
5	24.8	24.8			24.8	24.6			5
5.5	24.8	24.8	18.8		24.8	24.6			5.5
6	24.8	24.8	18.2		24.8	24.6			6
6.5	24.8	24	18.2		24.8	24.6	18.2		6.5
7	24.8	23.7	18.2	12.5	24.8	24.6	18.2		7
7.5	24.8	22.5	17.3	12.5	24.8	22.5	17.1		7.5
8	24.8	22	16.2	12.5	24.4	21.5	17.1	12	8
9	21.3	19.9	15	12.5	20.6	19.3	16.2	11.6	9
10	18	17.2	14	11.9	17.4	17.5	14	11.3	10
11	15.5	15.5	12	11	14.9	15.5	12.7	9.8	11
12	13.4	14.1	11.8	11	12.8	13.5	11.7	9.4	12
14	10.4	11	10	8.9	9.8	10.5	10.2	8.5	14
16		8.8	8.4	7.3	7.7	8.3	8.7	7.6	16
18		7.2	7.5	6.4	6.1	6.7	7.1	6.6	18
20		5.9	6.3	5.8		5.5	5.8	5.9	20
22			5.3	5.3		4.5	4.8	5.1	22
24			4.4	4.7		3.6	4	4.3	24
26			3.8	4			3.3	3.6	26
28				3.4			2.8	3	28
30				2.9			2.3	2.5	30
32				2.5				2.1	32
34								1.7	34
36								1.4	36
38									38
	8	8	4	4	8	5	4	4	
2#	0	0	0	0	50	50	50	50	2#
3#	25	50	75	100	25	50	75	100	3#
4#	25	50	75	100	25	50	75	100	4#
5#	25	50	75	100	25	50	75	100	5#
	0	0	0	0	0	0	0	0	

07

Load Chart-FJ

工况载荷表- FJ工况

Unit: t

	(Without main hook) wide gauge, Full counterweight, Boom 46m (不带主钩)宽轨，全配重，主臂46m						
	9.2m			16m			
	0	15	30	0	15	30	
10	5.0						10
11	4.9						11
12	4.8	3.3		2.9			12
13	4.7	3.2		2.9			13
14	4.6	3.1	2.5	2.8			14
15	4.4	3.1	2.5	2.7			15
16	4.2	3.0	2.5	2.6	1.9		16
18	3.9	2.9	2.4	2.5	1.8		18
20	3.7	2.7	2.3	2.5	1.7	1.3	20
22	3.3	2.6	2.2	2.3	1.6	1.3	22
24	2.8	2.5	2.1	2.2	1.5	1.2	24
26	2.4	2.3	1.9	2.1	1.4	1.2	26
28	2.0	2.0	1.8	2.0	1.3	1.2	28
30	1.5	1.7	1.7	1.8	1.3	1.1	30
32	1.2	1.3	1.5	1.5	1.2	1.1	32
34	0.8	1.0	1.2	1.2	1.1	1.0	34
36		0.7	0.9	1.0	1.1	1.0	36
38				0.7	1.0	0.9	38
40					0.8	0.8	40
42					0.5	0.6	42
44						0.3	44
	48	48	48	48	48	48	

- Note—Rate load of crane:
- ① . The rated capacity in the load charts are calculated when the crane is parking on firm and level ground less than 1° gradient, and lifting the load slowly and steadily.

② . The rated capacity values in the load charts are obtained when the wind speed is lower than 9.8 m/s on 75% of tipping load.

③ . The gray-shaded values in boom load chart are determined by boom strength, and the rest of values by stability; The load chart of FJ is determined by boom and jib strength.

④ . All values in the load charts are valid for 360° slewing.

⑤ . The rated load shall be no more than 5t when using boom tip pulley. If the jib unfolds, the rated lifting capacity of boom is 2t less.

⑥ . The rated capacity in the load charts include the weight of lifting hook, (main hook 0.6t, jib hook 0.1t) , therefore, the actual rated capacity shall deduct the weight of lifting hook, riggings and wire rope from the rated load in the load charts.

⑦ . If the actual boom length and working radius is between two values above, the larger one is available.

⑧ . Rear counterweight: 19t.

⑨ . The largest gradient allowed for lifting is 4°; Please check Operation Manual for load charts in details.

- 注释——起重机额定载荷：
- ① . 表中所示额定载荷是在坚硬的地面，坡度不大于1°，重物被缓慢平稳吊起、非行走吊重工作时的值。

② . 表中所示额定载荷是在风速 9.8m/s 以下，按照倾翻载荷的 75%计算得到的数值。

③ . 主臂载荷表中涂阴影数值由臂架强度决定，其余数值由起重机稳定性决定；副臂载荷表均由臂架强度决定。

④ . 所有载荷表中的数值均适用于 360° 回转。

⑤ . 使用臂尖滑轮时额定起重量不超过 5t。若副起重臂处于展开状态，主臂起吊的额定起重量应减少 2t。

⑥ . 表中额定起重量包括起重钩和吊具的重量（主起重钩重 0.6t，副起重钩重 0.1t）。实际起重量需从表中的额定载荷中扣除吊钩、吊具、钢丝绳等质量。

⑦ . 如果实际臂长和幅度介于表上两个数字之间，取较大值决定作业的起重量。

⑧ . 主机后配重 19t。

⑨ . 最大允许在 4° 坡进行吊载，详细的分级载荷表请参考操作手册。

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