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—2022年1月版—

XGC12000

CRAWLER CRANE

履带起重机

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02

XGC12000履带起重机

臂架组合方式/Boom combinations

XGC12000履带起重机的臂架以高强度无缝钢管作为弦管和腹管，辅以高强钢板分段焊接成中间等截面，两端变截面的八弦管和四弦管组合式空间桁架结构。

The boom sections of XGC12000 crawler crane use high-strength seamless pipe as the chords and lacing members, supplemented by eight-chord and four-tube lattice structure which is welded by high strength steel plate, with equal section in the middle and variable section at two ends.

1）超起工况/Superlift working condition

SHJ-DS单双组合臂：超起风电主臂+风电副臂，主臂可选长度102～168米，主臂部分组成：主臂底节臂10.5m×1、主臂过渡节I 3m×1、主臂双臂连接节12m×5（双臂每节由2个单独的12米臂节组成，此处12米节可用作塔臂12米中间节）、主臂过渡节II 3m×1、主臂增强中间节II12m×2、主臂过渡节9m×1、主臂中间节12m×2、主臂中间节3m×1、主臂中间节6m×1、主臂过渡节12m×1、主臂中间节II 12m×1

SHJ-DS single/double boom: superlift wind power boom + wind power jib, boom length 102~168m, boom composition: boom butt 10.5m×1, boom transition section I 3m×1, double-boom connection section 12m×5 (for double boom, each boom is composed of two 12m boom inserts, and 12m boom insert here can also be used as 12m tower jib insert), boom transition section II 3m×1, strengthened boom insert II 12m×2, boom transition section 9m×1, boom insert 12m×2, boom insert 3m×1, boom insert 6m×1, boom transition section 12m×1, boom insert II 12m×1 (this boom section can be used as 12m tower jib insert), boom top 7.5m×1; wind power jib composition: 12m wind power jib ×1.

SHB-单臂：超起重型主臂，主臂可选长度42～150米，主臂部分组成：主臂底节臂10.5m×1、主臂增强过渡节12m×1、主臂增强中间节I 12m×2、主臂增强中间节II 12m×3、主臂增强中间节II 12m×2、主臂过渡节9m×1、主臂中间节3m×1、主臂中间节6m×1、主臂顶节12m×1、主臂中间节12m×2、主臂臂头1.5m×1。

SHJ-DS single/double boom: superlift wind power boom + wind power jib, boom length 102~168m, boom composition: boom butt 10.5m×1, boom transition section I 3m×1, double-boom connection section 12m×5 (for double boom, each boom is composed of two 12m boom inserts, and 12m boom insert here can also be used as 12m tower jib insert), boom transition section II 3m×1, strengthened boom insert II 12m×2, boom transition section 9m×1, boom insert 12m×2, boom insert 3m×1, boom insert 6m×1, boom transition section 12m×1, boom insert II 12m×1 (this boom section can be used as 12m tower jib insert), boom top 7.5m×1; wind power jib composition: 12m wind power jib ×1.

臂架组合方式/Boom combinations

HB-单臂：标准重型主臂，主臂可选长度24～90米，主臂部分组成：主臂底节臂10.5m×1、主臂增强过渡节12m×1、主臂增强中间节I 12m×1、主臂过渡节9m×1、主臂中间节3m×1、主臂中间节6m×2、主臂中间节12m×3、主臂轻型中间节12m×2、主臂臂头1.5m×1。

HB-single boom: standard heavy boom, boom length 24~90m, boom composition: boom butt 10.5m×1, strengthened boom transition section 12m×1, strengthened boom insert I 12m×1, boom transition section 9m×1, boom insert 3m×1, boom insert 6m×2, boom insert 12m×3, light boom insert 12m×2, boom head 1.5m×1. (Note: the non-bold boom sections are shared with single-boom superlift heavy boom. That is, 24~90m single-boom standard heavy boom combination is achieved by connecting the boom sections in bold to single-boom superlift heavy boom)

SLB-单臂：超起轻型主臂，主臂可选长度81～168米，主臂部分组成：主臂底节臂10.5m×1、主臂增强过渡节12m×1、主臂增强中间节I 12m×2、主臂增强中间节II 12m×3、主臂增强中间节II 12m×2、主臂过渡节9m×1、主臂中间节3m×1、主臂中间节6m×1、主臂中间节12m×2、主臂过渡节12m×1、主臂中间节II 12m×1、主臂轻型臂头1.5m×1（与塔臂臂头相同）。

SLB-single boom: superlift light boom, boom length 81~168m, boom composition: boom butt 10.5m×1, strengthened boom transition section 12m×1, strengthened boom insert I 12m×2, strengthened boom insert II 12m×3, strengthened boom insert II 12m×2, boom transition section 9m×1, boom insert 3m×1, boom insert 6m×1, boom insert 12m×2, boom transition section 12m×1, boom insert II 12m×1, light boom head 1.5m×1 (the same as tower jib head). (Note: 81~168m single-boom superlift light boom combination is achieved by connecting the boom sections in bold to double-boom wind power working condition and superlift heavy boom working condition)

LB-单臂：标准轻型主臂，主臂可选长度84～108米，主臂部分组成：主臂底节臂10.5m×1、主臂增强过渡节12m×1、主臂增强中间节I 12m×1、主臂过渡节9m×1、主臂中间节3m×1、主臂中间节6m×1、主臂中间节12m×1、主臂过渡节12m×1、主臂中间节II 12m×1、主臂轻型臂头1.5m×1（与塔臂臂头相同）。

LB-single boom: standard light boom, boom length 84~108m, boom composition: boom butt 10.5m×1, strengthened boom transition section 12m×1, strengthened boom insert I 12m×1, boom transition section 9m×1, boom insert 3m×1, boom insert 6m×1, boom insert 12m×1, light boom insert 12m×2, boom transition section 12m×1, boom insert II 12m×1, light boom head 1.5m×1 (the same as tower jib head). (Note: all boom sections are form superlift light boom and standard heavy boom, no new boom sections)

臂架组合方式/Boom combinations

SHW-单臂：超起塔式副臂，塔臂可选长度30～102米，塔臂部分组成：
塔臂底节4.5m×1、主臂中间节6m×1、主臂轻型中间节12m×2、主臂过渡节12m×1、塔臂中间节6m×1、主臂双臂连接节12m×4、塔臂臂头1.5m×1。

SHW-single boom: superlift tower jib, tower jib length 30~120m, tower jib composition: tower jib butt 4.5m×1, boom insert 6m×1, light boom insert 12m×2, boom transition section 12m×1, tower jib insert 6m×1, double-boom connection section 12m×4, tower jib head 1.5m×1. (Note: in tower jib working condition, only tower jib front and rear strut, tower jib butt and 6m tower jib insert are newly added sections, others are from double-boom sections and main boom sections)

HW-单臂：标准塔式副臂，塔臂可选长度30～96米，塔臂部分组成：塔臂底节4.5m×1、主臂中间节6m×1、主臂轻型中间节12m×2、主臂过渡节12m×1、塔臂中间节6m×1、主臂双臂连接节12m×4、塔臂臂头1.5m×1。

HW-single boom: standard tower jib: tower jib length 30~96m, tower jib composition: tower jib butt 4.5m×1, boom insert 6m×1, light boom insert 12m×2, boom transition section 12m×1, tower jib insert 6m×1, double-boom connection section 12m×4, tower jib head 1.5m×1. (Note: All boom and jib sections used in tower jib working condition are shared with superlift tower jib working condition, no new sections)

SHVJ-单臂：超起专用副臂，专用副臂长度12米，专用副臂组成：塔臂底节4.5m+主臂6m+主臂臂头1.5m，支架为塔臂后支架；

SHVJ-single boom: superlift special jib, special jib length 12m, jib composition: tower jib butt 4.5m+ boom section 6m + boom head 1.5m, use tower jib rear strut.

SHJ-单臂：超起风电副臂，主臂可选长度90～168米，主臂部分组成：主臂底节臂10.5m×1、主臂增强过渡节12m×1、主臂增强中间节I 12m×2、主臂增强中间节II 12m×3、主臂增强中间节II 12m×2、主臂过渡节9m×1、主臂中间节12m×2、主臂中间节3m×1、主臂中间节6m×1、主臂过渡节12m×1、主臂顶节7.5m×1；风电副臂组成：12米风电副臂×1。

SHJ-single boom: superlift wind power jib, boom length 90~168m, boom composition: boom butt 10.5m×1, strengthened boom transition section 12m×1, strengthened boom insert I 12m×2, strengthened boom insert II 12m×3, strengthened boom insert II 12m×2, boom transition section 9m×1, boom insert 12m×2, boom insert 3m×1, boom insert 6m×1, boom transition section 12m×1, boom top 7.5m×1; wind power jib composition: 12m wind power jib ×1. (Note: boom and jib sections used in single-boom superlift wind power working conditions are all from single-boom boom working condition and double-boom wind power working condition, no new sections)

臂架组合方式/Boom combinations

HJ-单臂：标准风电副臂，主臂可选长度90～114米，主臂部分组成：主臂底节臂10.5m×1、主臂增强过渡节12m×1、主臂增强中间节II 12m×3、主臂过渡节9m×1、主臂中间节3m×1、主臂中间节6m×1、主臂中间节12m×2、主臂轻型节12m×1、主臂过渡节12m×1、主臂双臂连接节12m×2、主臂顶节7.5m×1；风电副臂组成：12米风电副臂×1。

HJ-single boom: standard wind power jib, boom length 90~114m, boom composition: boom butt 10.5m×1, strengthened boom transition section 12m×1, strengthened boom insert I 12m×3, boom transition section 9m×1, boom insert 3m×1, boom insert 6m×1, boom insert 12m×2, light boom insert 12m×1, boom transition section 12m×1, double-boom connection section 12m×2, boom top 7.5m×1; wind power jib composition: 12m wind power jib ×1. (Note: boom and jib sections used in single-boom standard wind power working conditions are all from single-boom superlift wind power working condition, no new sections)

臂架变幅构件/Boom luffing part

采用高强度拉板结构，由两组拉板构成。拉板由高强钢一次切割成型，安全系数高。

High strength pendant structure, it is composed of two groups of pendant. The pendant is made of high strength steel with high safety factor.

桅杆/Mast

标准型桅杆采用箱型结构，超起型桅杆采用桁架式结构，整体稳定性好。桅杆配置顶升机构，超起桅杆配置液压自动控制防后倾机构。超起型桅杆能实现主臂的悬空接臂功能。

Standard mast is box-type structure, superlift mast is lattice structure, with good overall stability. The mast is equipped with mast raising mechanism and the superlift mast is equipped with automatically controlled hydraulic backstop device. The use of superlift mast can realize the connection of suspended boom sections.

转台/Turntable

采用高强度的箱型结构，在中间连有工字型和箱型横梁，在回转中心附近布置有加强板。

Turntable is high-strength box structure, with I-shaped and box beam in the middle. Strengthened plates are arranged near the slewing center.

产品的部件和系统描述
Parts and System Description

机构组成/Mechanism composition

主起升机构 Main hoist winch	主、副臂时起升作业 Used for the lifting operation of boom and jib	转台回转中心附近 Near turntable slewing center
副起升机构 Main hoist winch	主、副臂时起升作业 Used for the lifting operation of boom and jib	主起升之后 Behind main hoist winch
主臂变幅机构 Boom luffing winch	主臂变幅 Used for boom luffing operation	转台中后方 Middle and rear part of turntable
超起变幅机构 Boom luffing winch	超起主臂变幅 Used for superlift boom luffing operation	超起桅杆卷扬节 Superlift mast butt section
回转机构 Slewing gear	上车回转 Used for superstructure slewing	转台前方 In front of turntable
行走机构 Travel gear	整机行走 Used for crane travel	履带驱动轮 Crawler drive sprocket
穿绳机构 Reeving winch	辅助起升变幅机构安装钢丝绳 Assist the rope reeving for hoist and luffing winches	转台前面 In front of turntable
塔臂变幅机构 Tower jib luffing winch	塔式副臂变幅 Used for tower jib luffing operation	主臂底节 Boom butt
单滑轮起升机构 Single top hoist winch	副钩起落 Used for the lifting and lowering of aux. hook	主臂底节 Boom butt

起升机构/Hoist winch

主副起升机构型号相同，单独驱动，大起重量时主副起升机构可同步工作。起升机构采用片式常闭制动器，内藏式减速机，变量马达驱动。主副起升采用箱型支架，销轴方式与转台连接。钢丝绳均为抗旋转钢丝绳。
主起升机构，钢丝绳直径 ϕ28 mm；
副起升机构，钢丝绳直径 ϕ28 mm；

Main and aux. hoist winches have the same model and driven independently. They can work synchronously for heavy load lifting. Hoist winches adopt constant-closed disc brake, built-in reducer and variable displacement drive motor. The two winches use box frame, pin shaft is used to connect them to turntable. The wire ropes are all rotation resistance.
For main hoist winch, rope diameter ϕ28 mm;
For aux. hoist winch, rope diameter ϕ28 mm.

变幅机构/Luffing winch

主臂变幅机构采用双联卷筒形式。采用棘轮锁止装置，内藏式减速机，片式常闭制动器，钢丝绳直径 ϕ28 mm。
超起变幅机构采用棘轮锁止装置，内藏式减速机，片式常闭制动器，钢丝绳直径 ϕ28 mm。

Boom luffing winch is twin drum form. Ratchet lock device, built-in reducer and constant-closed disc brake are adopted for this system, rope diameter ϕ28mm.
Superlift luffing winch adopts ratchet lock device, built-in reducer and constant-closed disc brake, rope diameter ϕ28 mm.

回转机构/Slewing gear

布置在转台前方，采用两个行星减速机，与回转支承外啮合，液压缓冲，具有自由滑转功能。采用片式常闭制动器，工作可靠，维修方便。

Slewing gear is arranged in front of turntable and externally meshed with slewing bearing; it has two planetary reducers and constant-closed disc brake, with hydraulic buffering and free swing function, reliable in work and easy for maintenance.

回转支承/Slewing bearing

采用三排滚柱式外啮合回转支承，强度高、承载力矩大，维修、保养方便；具有分体功能，通过销轴连接，可实现主机的上下分体，降低主机运输重量。

The three-row roller type slewing bearing are externally meshed, with features of high strength, large bearing torque and easy maintenance; pin shaft is used for the connection, the upper and lower structures of the basic machine can be separated to reduce the its transport weight.

油缸总成/Oil cylinder assembly

臂架与转台的连接、车架与履带梁的连接均采用动力销连接方式，并配置了桅杆顶升油缸和支腿油缸。操纵室设有翻转油缸和旋转油缸。

The connection between boom and turntable, the connection between car-body and track frame are realized by the use of power pin. This crane is equipped with mast raising cylinder and outrigger cylinder, the operator’s cab is also set with cab tilting cylinder and cab rotation cylinder.

操纵室

操纵室按人机工程学设计，安全舒适，装有安全玻璃和保护栏。车窗装有遮阳板，滑动式车门，可调式座椅。配置冷暖空调。
运输时可以将其转动90° 放置在转台前方(主臂底节臂卸下)，减小运输宽度。
司机室可上仰20° ，便于观察高空作业。

Operator’s cab is ergonomically designed. With safety glass and protective guard, it is safe and comfortable. The window is installed with sun shield; the cab is equipped with sliding door, adjustable seat and air conditioner.
When the crane is in transport, the cab can be turned for 90 ° to turntable front side (boom butt removed) to reduce the transport width.
The cab can be tilted upward for 20° to widen the field of vision.

车架/Car-body

车架采用高强钢板、箱型结构，中间设置横隔板，加强其抗扭刚度，结构简单，承载能力强，刚性好。

Car-body is made of high strength steel plate and welded in box type structure. Cross panel is set in the middle to strengthen its torsion stiffness, simple structure, high load bearing capacity and good rigidity.

履带行走装置/Crawler travel device

包括履带梁和四轮一带。履带梁采用箱型结构，与车架连接部位局部加强，中间设置横隔板。
两个履带梁对称设置，装有宽度为1.5m的履带板，可同步操作，也可单独操纵，以实现直行和转弯。行走减速机驱动，采用内藏式行星齿轮减速机，变量马达驱动。

Crawler track consists of crawler beam, drive sprocket, idler wheel, upper roller, lower roller and track shoe. Crawler beam is box-shape structure, its connection part with car-body is strengthened partially, and cross panel is installed in the middle of it.
The two track frames are set symmetrically, installed with crawler shoes of 1.5m in width. They can be operated synchronously or separately to realize straight travel and turning. Travel reducer drive, built-in planetary gear reducer and variable displacement motor drive.

液压系统

采用电比例先导变量泵控系统，系统稳定，速度精调特性好。
回转采用闭式泵控系统，无须平衡阀和换向阀，传动平稳无冲击。
对于调速范围大的主副起升和行走机构，采用变量马达驱动。变量马达+变量泵控系统，可以对运动速度实现精确调控，具有良好的微动性。

It adopts electric proportional pilot variable pump control system, the system is stable with good speed adjustment.
Slewing system is closed pump control system, without balance valve and change valve; the transmission is stable without impact.
For main hoist, aux. hoist and travel systems with large speed regulation range, variable motor drive is adopted. The combination of variable motor and variable pump control system can achieve accurate control of the movement speed, with good fine motion performance.

电气系统/Electrical system

电气系统主要包括如下部分：发动机控制、监测仪表、辅助设备、液压系统控制、力矩限制及安全监控等。
电气系统的构成：常规电气系统和PLC控制系统。
常规电气系统包括电源、起动控制、发动机控制和状态监测、驾驶室空调及音响、照明（灯光）、雨刮器、对讲机等。
PLC控制系统包括主副卷扬、回转、主臂变幅、左右行走及司机室旋转、翻转等动作的控制,所有动作通过PLC逻辑控制。

Electrical system mainly includes the following parts: engine control, monitoring instruments, auxiliary equipment, hydraulic system control, load moment limit and safety monitoring, etc.
Composition of electrical system: conventional electrical system and PLC control system.
Conventional electrical system includes power supply, starting control, engine control and status monitoring, cab air conditioner and stereo, illumination (lighting), wipers, interphone, etc.
The PLC control system includes the control of main winch, aux. winch, slewing, boom luffing, left/right travel and the rotation and tilting of operator’s cab. All movements are controlled through PLC logic.

产品的部件和系统描述
Parts and System Description

发动机系统/Engine system

制造商：潍柴动力
型号：WP17G770E302
额定功率566 KW
额定转速 2100r/min
最大输出扭矩3000/1200–1500Nm/r/min
型式：V型八缸、水冷却、增压中冷、直喷、柴油发动机
环保性：符合非道路国Ⅲ标准
燃料箱容量：约800L。

Manufacturer: Weichai Power
Model: WP17G770E302;
Rated power: 566 KW;
Rated rotation speed: 2100r/min;
Max. output torque: 3000/1200–1500Nm/r/min;
Structure type: V–type, 8–cylinder, water–cooling, turbocharged and inter–cooled, and direct injection diesel engine;
Emission standard: comply with off–road China III standard;
Fuel tank capacity: 800L.

平衡重/Counterweight

车身配重共95吨，10吨重6块，装在车架前后重为17.5t的配重箱中；
转台配重共265吨，转台配重托盘2块，重量各12.5吨；左右两侧各12块，每块重量10吨。
超起配重共430吨。配重托盘1个，重量30吨（含分离装置10吨）；10吨配重块40块。

Car–body counterweight is 95t in total, with six 10t counterweight slabs which are installed in the 17.5t counterweight boxes at the front and rear of car–body.
Turntable counterweights is 265t in total, with two counterweight tray, each weighs 12.5t; twelve counterweight slabs are separately arranged at the left and right side, each weighs 10t.
Superlift counterweight is 430t in total, with one 30t superlift counterweight tray (include a separating unit of 5t), and forty 10t counterweight slab.

吊钩/Hook block

吊钩有多种，常用配置如下表：
There are a variety of hooks, the configurations are as follows:

名称Name	800t	500t	240t	50t	16t
自重Weight(t)	21	13.5	12.5	1	0.6

注： 800t吊钩为组合式吊钩，可以拆成400t吊钩；500t吊钩为组合式吊钩，可以拆成250t吊钩；240t吊钩为组合式吊钩，可以拆成100t吊钩。
Note: 800t hook is combined hook, which can be disassembled into 400t hook; 500t hook is combined hook, which can be disassembled into 250t hook; 240t hook is combined hook, which can be disassembled into 100t hook.

集中润滑系统/Centralized lubrication system

采用递进式集中润滑系统，电脑编程控制，能够自动、逐点加注润滑油，保证各润滑点油料充足，使车辆保养更加轻松、方便。

The use of progressive centralized lubrication system is controlled by computer programming. It can add lubricating oil automatically point by point, so as to ensure that each point is lubricated sufficiently and make crane maintenance more easy and convenient.

安全保护措施
Safety Protection Measures

安全装置包括力矩限制器、转台回转锁销装置、起重臂防后翻装置、起升高度限位装置、风速仪、水平仪、液压系统的溢流阀、平衡阀、双向液压锁、回转警告、行走警告、防雷击保护装置、防过放、角度指示器等。

The safety devices include load moment limiter, turntable slewing lock pin, boom backstop device, hoist height limiter, anemometer, level gauge, hydraulic system overflow valve, balance valve, hydraulic two–way lock, slewing warning device, travel warning device, lightning protection device, rope over–release protection device, angle indicator and etc.

安装模式&工作模式切换/Assembly mode & working mode changeover switch

安装模式下，防过卷装置、起重臂限位装置、力矩限制器等均不起作用，以利于起重机安装；工作模式下，所有安全装置均起作用。

In Assembly mode, over–wind protection device, boom angle limiter and load moment limiter are all out of service to facilitate crane assembly; in working mode, all safety devices work normally.

紧急停止功能/Emergency stop function

具有紧急停止功能，可在紧急情况下，快速停止所有动作。

This crane has emergency stop function, all crane movements will be stopped quickly in case of emergency.

防误操作功能/Anti–misoperation function

手柄具备防误操作功能，在手柄前侧设置有安全保护开关，此开关没有按下的时候，所有动作信号被屏蔽，手柄不起作用，防止误操作。

The handles have anti–misoperation function. A safety protection switch is set in front of the handle. If the switch is not pressed, all movement signals are shielded, and the handle will not work to prevent operation error.

防过卷功能/Rope over–wind protection function

臂头设置过卷装置，防止钢丝绳过卷。当起升到一定高度时候，显示器上的过卷指示灯亮，同时自动停止起升动作。

There is an over–wind protection device on boom head to prevent rope from being over–wound. When hoists up to a certain height, the over–wind warning light on display will be on, and load moment limiter will stop hoisting up movements at the same time.

防过放功能/Rope over–release protection function

起升机构均设置三圈保护器，避免卷筒放绳时产生过放。当卷筒钢丝绳只剩三圈时，显示器上的过放指示灯亮，同时自动停止下落动作。

Rope end limiter is set on each hoist winch to prevent wire rope from over–releasing. When there are only three loops of rope left on winch, the over–release warning light on display will be on, and the movement of lowering down will be stopped at the same time.

棘爪锁止功能/Ratchet locking function

具有棘爪锁止装置，用于锁定变幅卷扬，保证臂架在非工作时安全停放。

Ratchet locking device is used to lock the luffing winch so that boom is stopped and placed safely at non–working state.

回转锁止功能/Slewing locking function

具有回转锁止装置，用于起重机停止时，上车的回转锁定。

Slewing locking device is used to lock superstructure slewing when the crane is stopped.

防后倾功能/Backstop function

具有主臂、超起防后倾装置，防止臂架及支架的后仰。

Boom and superlift backstop devices are equipped to prevent boom and strut from tilting backward.

起重臂角度限制/Boom angle limit function

主起重臂仰角达到最大角度极限时，起重臂被停止起升；主起重臂在幅度超出工作范围时停止起重臂落。

When boom angle reaches the upper limit, boom raising will be stopped; when boom radius is beyond the working range, boom lowering will be stopped.

吊钩防脱功能

所有起重钩均装有防脱卡板，防止悬挂在起重钩钩头的吊索脱落。

All lifting hooks are equipped with latch to prevent the suspended rope on the hook head from falling off.

安全保护措施
Safety Protection Measures

液压系统安全保护功能/Hydraulic system safety protection function

配置液压平衡阀、液压溢流阀等装置，保证系统工作时稳定安全。

Hydraulic system is equipped with hydraulic balance valve, hydraulic relief valve and other devices to ensure the stable and safe work of the system.

力矩限制器系统/LMI system

力矩限制器能自动检测出起重臂的角度、起重载荷。具有预先报警、超载自动停止作业功能。

The load moment limiter can automatically detect boom angle and lifting load. It has pre-warning function and the movement can stop automatically when overload occurs.

声光报警功能/Closed circuit monitoring system

具有三色报警灯和声光报警器，可显示车辆负荷及动作状态，警示司机及车外人员。

It is equipped with tri-color warning light and audio/video alarm. It can display the load and movement status of the vehicle, and alert the driver and people outside the vehicle.

照明灯/Illuminator light

照明灯装在转台前方、操纵室上方和操纵室内，提供照明。

There are illuminator lights in front of turntable, above the cab and inside the cab for lighting.

后视镜/Rearview mirror

位于司机室外侧，便于司机观察机器后方情况。

It is outside the operator’s cab so that the driver can observe the situation behind the machine.

示高灯/Height mark lamp

示高灯安装在臂架顶部，作为高空警示。

It is located on boom tip for high level operation warning.

风速仪/Anemometer

实时检测当前风速，并传送到操纵室的监视器上，提醒操作者注意风载荷。

It can detect the current wind speed and send signal to the monitor in operator’s cab to remind the operator for safe operation in wind load.

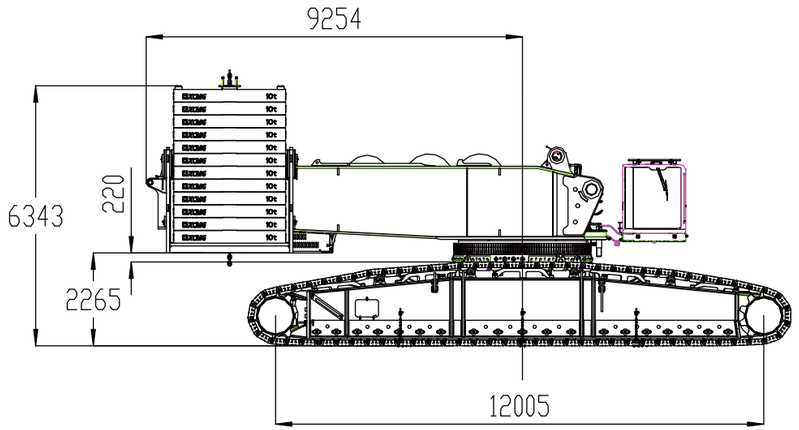
水平仪/Gradienter

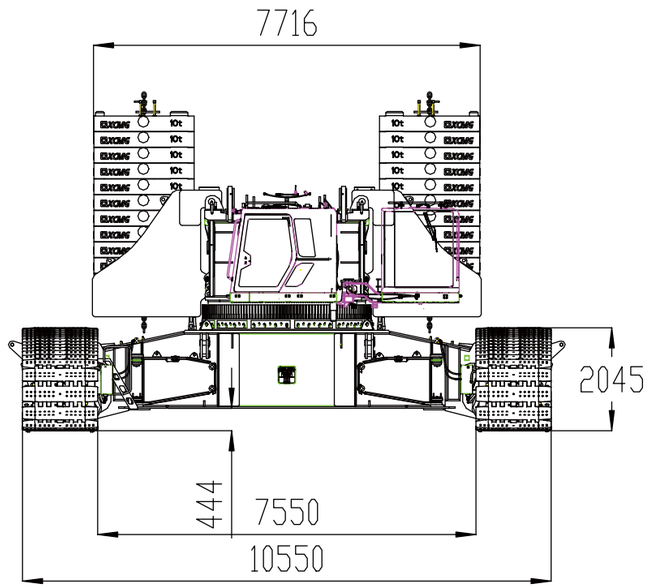
配有电子和机械水平仪，可显示使用路面的倾斜程度，为操作者提供机器水平度参考。

It is equipped with electronic and mechanical gradienters, which can show the ground gradient and provide reference for the operator.

主要技术参数
Main Technical Parameters

XGC12000型履带起重机外形尺寸
XGC12000 crawler crane outline dimension





主要技术参数
Main Technical Parameters

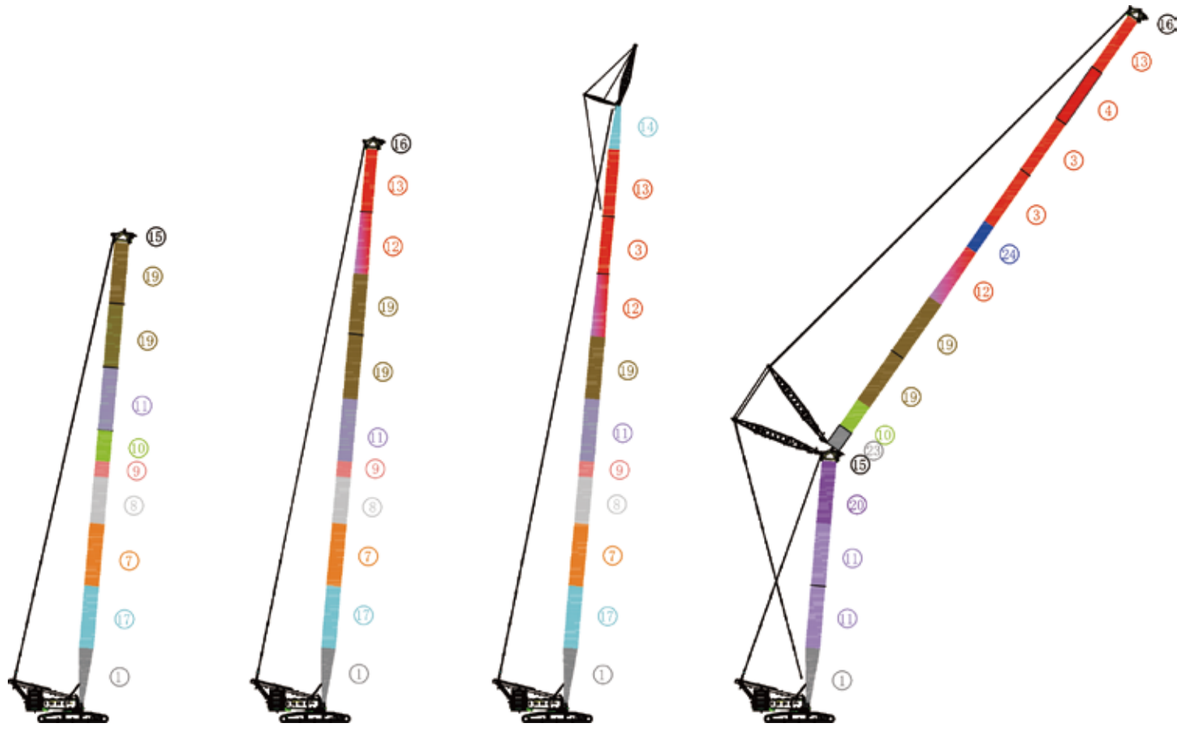
项目 Item			单位 Unit	数值 Data
速度参数 Speed	起升最大单绳速度	Hoist winch max. single line speed	m/min	135
	主臂变幅最大单绳速度	Boom luffing winch max. single line speed	m/min	2×55
	超起变幅最大单绳速度	Superlift luffing winch max. single line speed	m/min	135
	最大回转速度	Max. slewing speed	rpm	0.6
	最高行驶速度	Max. travel speed	km/h	1.0
发动机 Engine	额定功率	Rated power	kw	566KW
	排放标准	Emission standard	-	国 Ⅲ China III
整机重量(基于24m重型主臂，800t吊钩)		Total crane weight (24m heavy boom, 800t hook block)	t	655
平均接地比压		Mean ground pressure	MPa	0.19
爬坡度		Grade-ability	-	15%
车身平衡重		Car-body counterweight	t	95
转台平衡重		Turntable counterweight	t	265
超起平衡重		Superlift counterweight	t	430
最大单件运输重量-履带梁		Max. weight of single unit in transport state-crawler tracks	t	55
最大单件运输重量-主机分体		Max. weight of single unit in transport state-basic machine	t	48
最大单件运输尺寸（长×宽×高）		Max. dimension of single unit in transport state (L×W×H)	m	13.5×3.47×2.76

厂家 Manufacturer				徐工 XCMG
型号 Model				XGC12000
标准工况 Standard working condition	主臂工况 Main boom working condition	重型主臂最大起重量(t)	Heavy boom max. lifting capacity (t)	694/7
		重型最大起重力矩(t .m)	Heavy boom max. load moment (t .m)	4869
		重型主臂长度(m)	Heavy boom length (m)	24~90
		轻型主臂最大起重量(t)	Light boom max. lifting capacity (t)	314/12
		轻型最大起重力矩(t .m)	Light boom max. load moment (t .m)	3770
		轻型主臂长度(m)	Light boom length (m)	84~108
	风电副臂工况 Wind power jib working condition	最大起重量(t)	Max. lifting capacity (t)	234/14
		最大起重力矩(t .m)	Max. load moment (t .m)	3474
		最长臂架组合(m)	Max. combination length (m)	117+12
	变幅副臂工况 Tower jib working condition	最大起重量(t)	Max. lifting capacity (t)	263/16
		最大起重力矩(t .m)	Max. load moment (t .m)	4212
		最长臂架组合(m)	Max. combination length (m)	54+84
		主臂角度(°)	Boom angle (°)	85° /75° /65°
超起工况 Superlift working condition	主臂工况 Boom working condition	重型组主臂最大起重量(t)	Heavy boom max. lifting capacity (t)	800/15
		重型主臂最大起重力矩(t .m)	Heavy boom max. load moment (t .m)	12500
		重型主臂长度(m)	Heavy boom length (m)	42~150
		轻型主臂最大起重量(t)	Light boom max. lifting capacity (t)	400/26
		轻型最大起重力矩(t .m)	Light boom max. load moment (t .m)	11610
		轻型主臂长度(m)	Light boom length (m)	81~168
	变幅副臂工况 Tower jib working condition	最大起重量(t)	Max. lifting capacity (t)	383
		最大起重力矩(t .m)	Max. load moment (t .m)	11520
		最长臂架组合(m)	Max. combination length (m)	96+102
		主臂角度(°)	Boom angle (°)	85° /75° /65°
	风电副臂工况 Wind power jib working condition	最大起重量(t)	Max. lifting capacity (t)	240
		最大起重力矩(t .m)	Max. load moment (t .m)	10472
		最长臂架组合(m)	Max. combination length (m)	168+12
	专用副臂工况 Special jib working condition	最大起重量(t)	Max. lifting capacity (t)	480
		最大起重力矩(t .m)	Max. load moment (t .m)	11088
		最长臂架组合(m)	Max. combination length (m)	102+12

09

XGC12000履带起重机

工况设置
Working Conditions

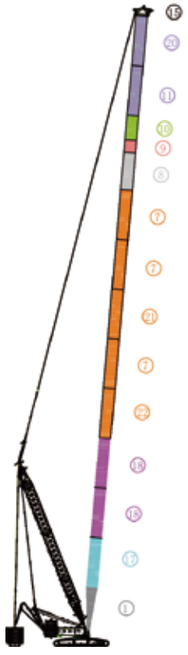


标准重型主臂
Standard heavy boom
HB：24–90m

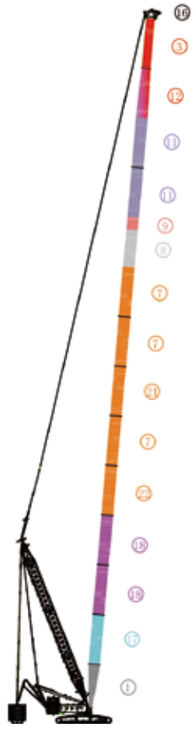
标准轻型主臂
Standard light boom
LB：84–108m

标准风电副臂
Standard wind power jib
HJ：(90–114)+12m

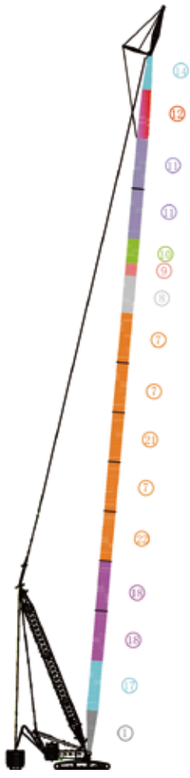
标准塔式副臂
Standard tower jib
HW：(42–54)+(30–96)m



超起重型主臂
Superlift heavy boom
SHB：42–150m



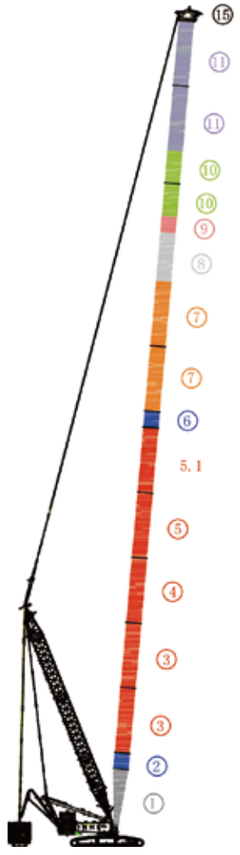
超起轻型主臂
Superlift light boom
SLB：81–168m



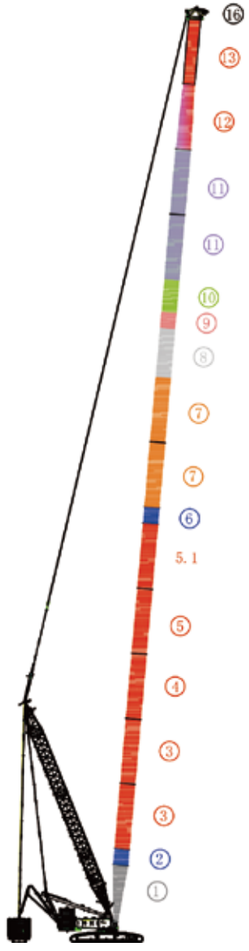
超起风电副臂
Superlift wind power jib
SHJ：（87–168）+12

超起塔式副臂
Superlift tower jib
SHW：(48–96)+(30–102)m

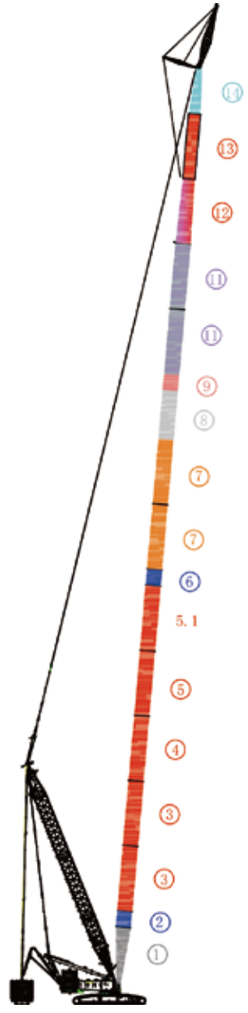
超起专用副臂
Superlift special jib
SHVJ：（90–102）+12



超起重型主臂–双臂
Superlift heavy boom–double boom
SHB–DS（42–150m）



超起轻型主臂–双臂
Superlift light boom–double boom
SLB–DS（96–168m）

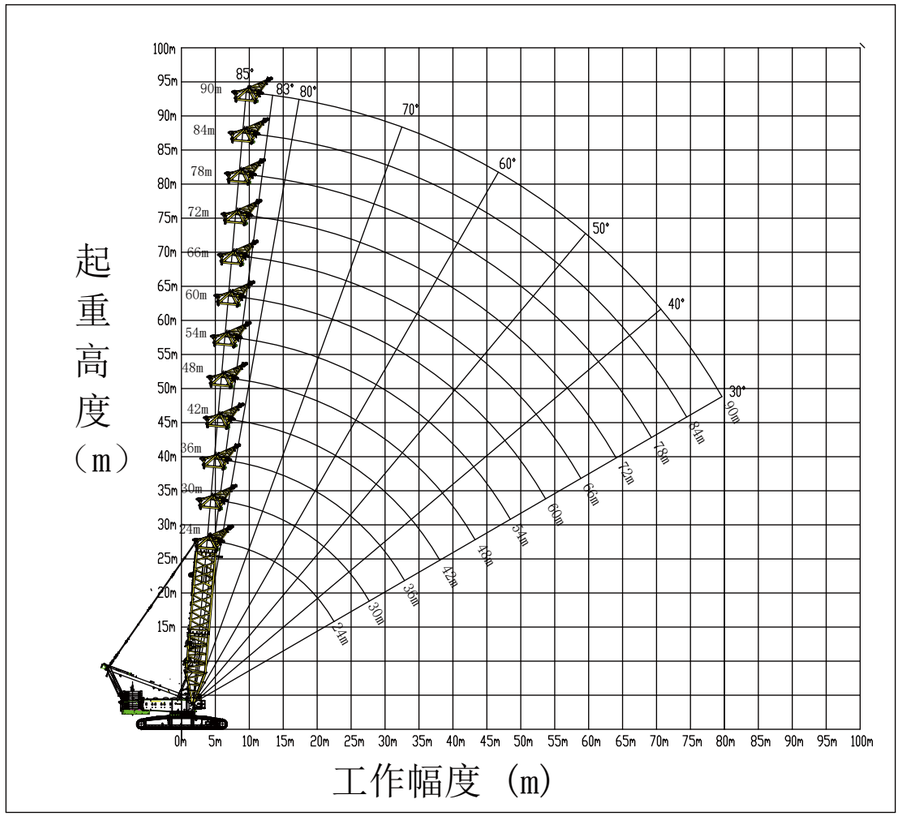


超起风电副臂–双臂
Superlift wind power jib–double boom
SHJ–DS（102–168m）

Double boom
双臂示意

典型工况载荷表
Lifting Capacity Table in Typical Working Conditions

1.HB–标准重型主臂 HB–Standard heavy boom

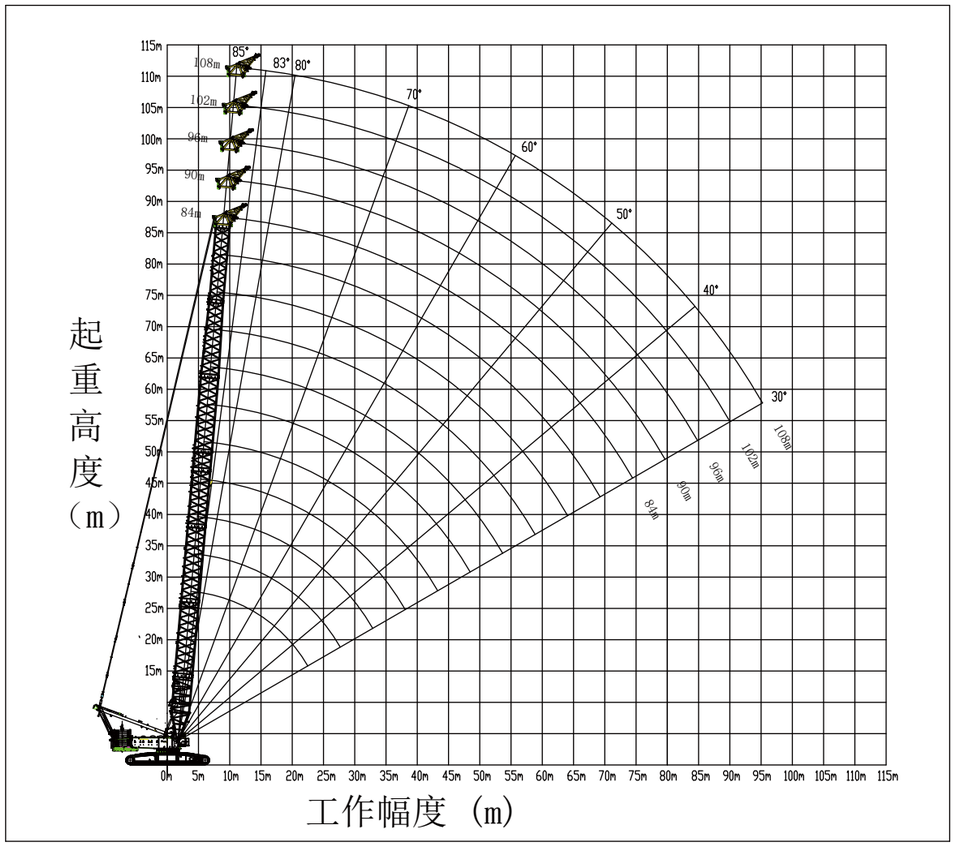


标准重型主臂
Standard heavy boom
HB：24–90m

标准重型主臂 Standard heavy boom													
265t转台平衡重+95t车身平衡重 265t turntable counterweight + 95t car–body counterweight													
幅度Radius	主臂长度 Boom length												幅度Radius
(m)	60												(m)
7	694	693	692										7
8	608	608	606	605									8
9	541	540	539	538	536	519							9
10	486	485	484	483	482	461	439	419					10
11	441	440	439	438	434	414	396	378	363				11
12	403	403	402	401	392	376	360	345	332	319	307		12
13	371	371	369	369	357	343	330	316	305	293	283	274	13
14	343	343	342	339	327	315	304	291	281	271	262	254	14
15	319	319	314	308	302	291	281	270	261	252	244	236	15
16	289	290	287	282	277	271	261	251	243	235	228	221	16
17	263	265	265	260	255	252	244	234	227	219	213	207	17
18	242	243	243	241	237	234	228	219	213	206	200	194	18
19	223	224	224	224	220	218	214	206	200	193	188	183	19
20	207	208	208	208	206	204	200	194	188	182	178	172	20
22	179	181	181	181	180	179	176	173	168	163	159	154	22
24		159	159	159	159	158	157	153	151	146	143	139	24
26		142	142	142	141	140	139	137	135	132	129	126	26
28		127	127	127	126	125	124	122	121	119	118	114	28
30			115	115	114	113	112	110	109	107	107	104	30
32			104	104	103	102	101	99	98	97	97	96	32
34				95	94	93	92	90	89	87	87	86	34
36				87	86	85	84	82	81	79	79	78	36
38				80	79	78	77	74	74	72	72	71	38
40					73	72	71	68	67	66	66	65	40
42					67	66	65	62	62	60	60	59	42
44					62	61	60	57	57	55	55	54	44
46						56	55	53	52	50	50	49	46
48						52	51	49	48	46	46	45	48
50							47	45	44	42	42	41	50
52							44	41	40	39	39	38	52
54							40	38	37	36	35	34	54
56								35	34	33	32	31	56
58								32	31	30	30	29	58
60									29	27	27	26	60

典型工况载荷表
Lifting Capacity Table in Typical Working Conditions

2.LB–标准轻型主臂 LB–Standard light boom

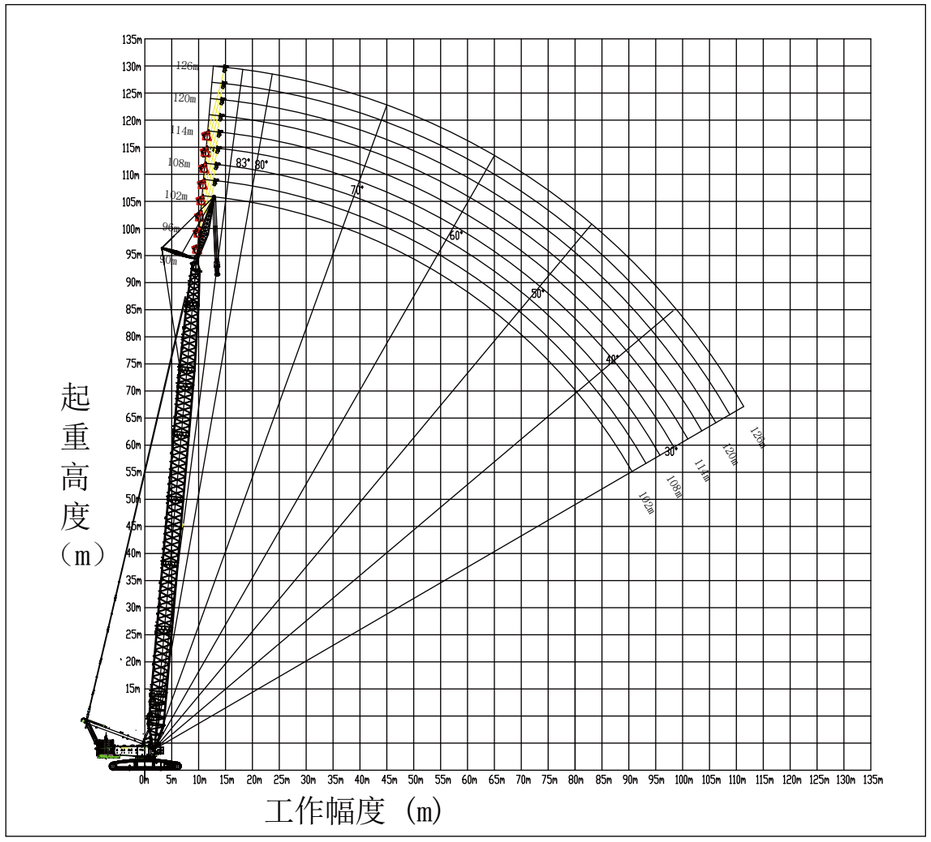


标准轻型主臂
Standard light boom
LB：84–108m

标准轻型主臂 Standard light boom						
265t转台平衡重+95t车身平衡重 265t turntable counterweight + 95t car–body counterweight						
幅度Radius	主臂（m） Boom length (m)					幅度Radius
(m)	84	90	96	102	108	(m)
12	314					12
13	290	280	254			13
14	269	260	247	220	197	14
15	251	242	235	214	192	15
16	235	227	220	208	186	16
17	220	213	207	200	181	17
18	207	200	195	189	176	18
19	195	189	184	178	172	19
20	185	179	174	168	163	20
22	166	161	157	152	147	22
24	150	145	142	137	133	24
26	137	132	129	125	121	26
28	124	121	118	114	110	28
30	113	110	108	104	101	30
32	103	101	99	96	93	32
34	94	92	91	89	86	34
36	86	84	84	82	79	36
38	78	77	76	75	73	38
40	72	71	70	68	67	40
42	66	65	64	63	61	42
44	61	60	59	58	56	44
46	57	55	55	53	52	46
48	53	51	50	49	47	48
50	49	47	46	45	44	50
52	45	44	43	41	40	52
54	42	40	40	38	37	54
56	39	37	37	35	34	56
58	36	35	34	32	31	58
60	34	32	31	30	28	60
64	29	27	27	25	24	64
68	25	23	23	21	20	68

典型工况载荷表
Lifting Capacity Table in Typical Working Conditions

3.LJ–标准风电副臂 LJ–Standard wind power jib



标准风电副臂
Standard wind power jib
LJ: (90–114) + 12m

标准风电副臂，主副臂夹角10 ° Standard wind power jib, angle between boom and jib is 10°						
265t转台平衡重+95t车身平衡重 265t turntable counterweight + 95t car–body counterweight						
幅度Radius	主臂长度（m） Boom length (m)					幅度Radius
(m)	90	96	102	108	114	(m)
14	234					14
15	231	217	192			15
16	217	210	190	137		16
17	204	197	187	135	119	17
18	193	186	182	133	117	18
19	182	176	172	132	115	19
20	173	167	163	130	114	20
22	156	151	147	126	110	22
24	141	137	134	123	107	24
26	129	125	122	120	105	26
28	118	114	112	111	102	28
30	109	105	103	102	100	30
32	100	97	95	94	92	32
34	93	89	87	87	85	34
36	86	83	81	81	79	36
38	79	77	75	75	74	38
40	72	71	70	70	69	40
42	67	65	65	65	64	42
44	62	60	59	61	60	44
46	57	55	55	56	56	46
48	53	51	51	52	51	48
50	49	47	47	48	48	50
52	45	44	43	44	44	52
54	42	40	40	41	41	54
56	39	37	37	38	38	56
58	36	34	34	35	35	58

典型工况载荷表
Lifting Capacity Table in Typical Working Conditions

HJ–T1–（265+95+35）增强平衡重标准风电工况
HJ–T1–（265+95+35）standard wind power working condition with strengthened counterweight

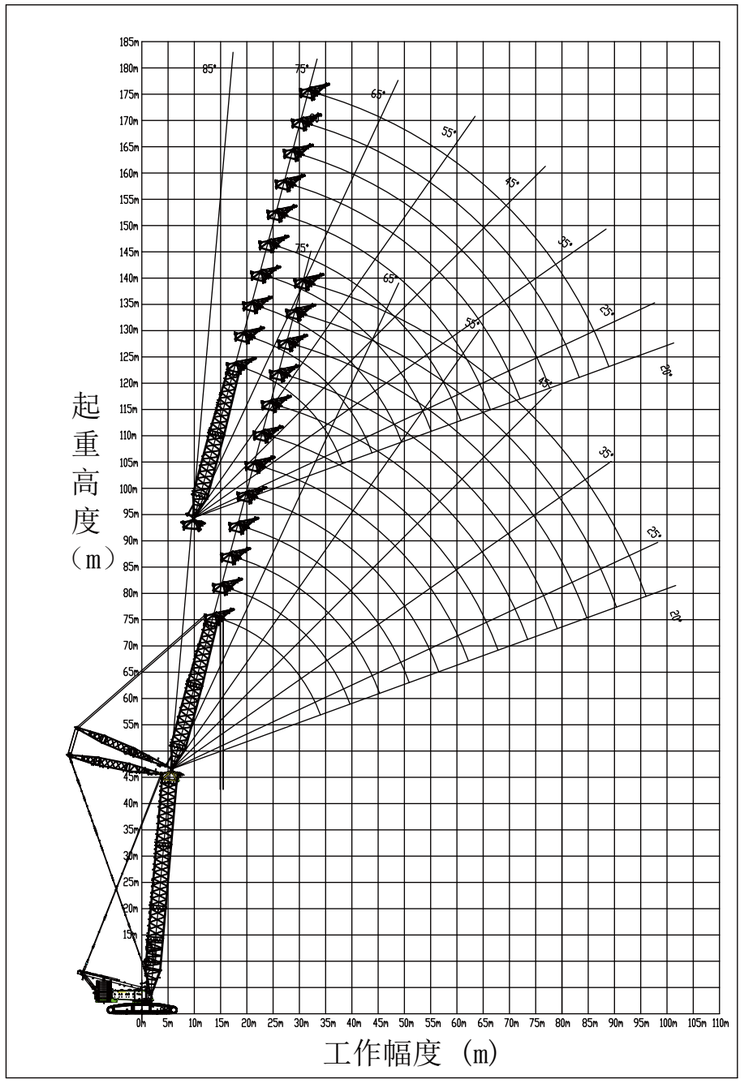
车身平衡重95t，转台平衡重265t，增强平衡重35t，主副臂夹角15°
Car–body counterweight 95t, turntable counterweight 265t, strengthened counterweight 35t, angle between boom and jib 15°

幅度Radius	副臂长度 (m) Jib length (m)										幅度Radius
(m)	90	93	96	99	102	105	108	111	114	117	(m)
15	240	240	240								15
16	240	240	240	233	216	206					16
17	240	240	239	232	215	204	192	178	128	122	17
18	238	235	231	229	214	202	190	176	126	120	18
19	226	223	219	217	212	200	188	174	124	119	19
20	214	211	208	206	203	198	186	172	123	117	20
22	194	191	188	186	184	181	178	168	119	114	22
24	176	174	171	169	167	165	162	161	116	111	24
26	161	159	156	155	153	151	149	148	113	108	26
28	147	146	144	142	141	139	137	136	110	105	28
30	135	134	132	131	130	128	126	125	107	102	30
32	125	124	122	121	120	118	116	116	104	100	32
34	115	114	113	112	111	110	108	107	102	97	34
36	107	106	104	104	103	102	100	100	99	95	36
38	99	98	97	96	96	94	93	93	96	92	38
40	92	92	90	90	89	88	86	86	89	88	40
42	85	85	84	83	83	82	80	80	83	83	42
44	79	79	77	77	77	76	75	75	78	77	44
46	74	73	72	72	71	71	69	70	73	72	46
48	68	68	67	67	66	66	65	65	68	67	48
50	64	63	62	62	62	61	60	60	63	63	50

注意：
1、实际起重量必须从本表的额定起重量中减去吊钩、吊具及缠绕在吊钩及臂头上的钢丝绳的重量。
2、表中额定起重量是在水平坚硬地面、重物被缓慢平稳吊起。
Note:
1. The actual lifting weight does not include the weight of hook, sling and wire rope on hook block and boom head.
2. The rated lifting weight in the table is for the crane set on level and solid ground and the load is lifted slowly.

典型工况载荷表
Lifting Capacity Table in Typical Working Conditions

4.HW–标准塔式副臂 HW–Standard tower jib



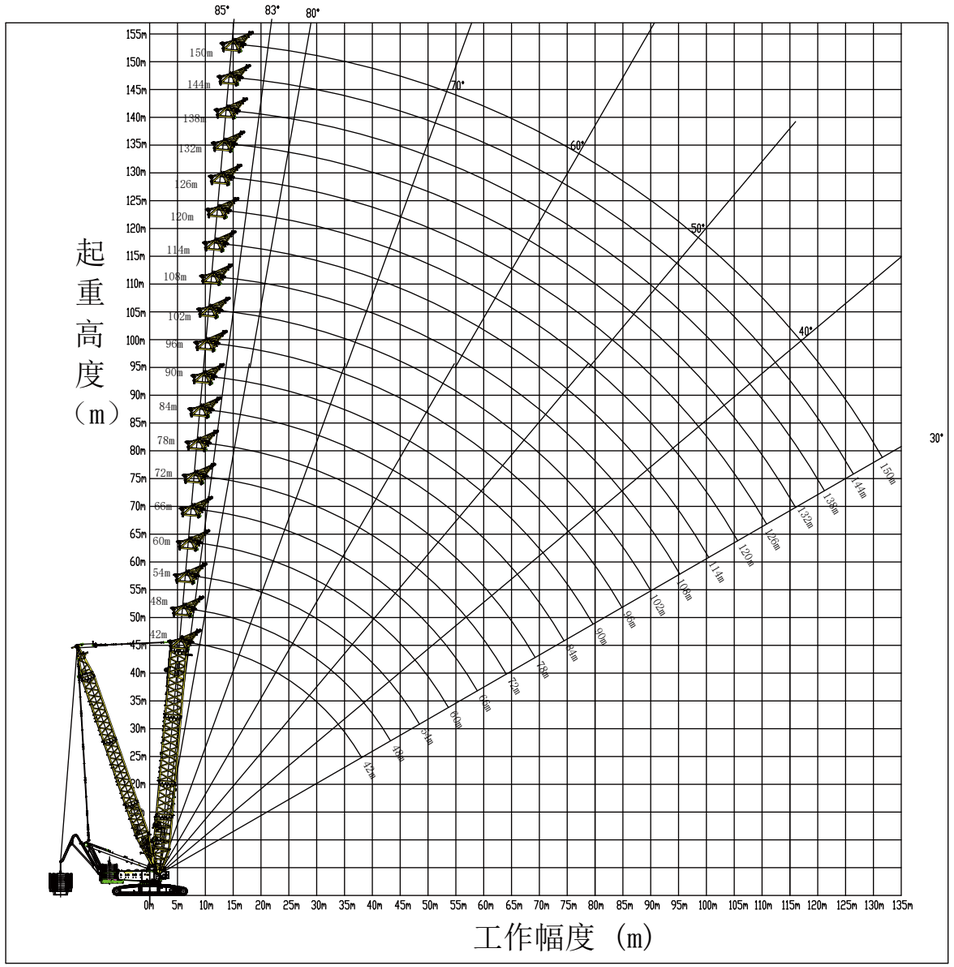
标准塔式副臂
Standard tower jib
HW: (42–54)+(30–96)m

标准塔式副臂 Standard tower jib 主臂角度85°，车身平衡重 265t，转台平衡重 95t，主臂角度 85 度，主臂长度 48m Boom angle 85°, car-body counterweight 265t, turntable counterweight 95t, boom length 48m							
幅度Radius	副臂长度(m) Jib length (m)						幅度Radius
(m)	30	42	54	66	78	90	(m)
17	238						17
18	225						18
19	213						19
20	203	190					20
22	184	173					22
24	168	158	148				24
26	155	145	136	129			26
28	143	134	126	119			28
30	133	125	117	110	104		30
32	122	116	109	103	97	86	32
34	112	109	102	96	91	84	34
36		102	95	90	85	80	36
38		95	90	84	79	74	38
40		88	84	79	74	70	40
42		82	80	74	70	65	42
44		76	75	70	66	62	44
46		71	70	66	62	58	46
48			65	63	59	55	48
50			61	59	56	51	50
52			58	56	53	49	52
54			54	53	50	46	54
56			51	49	47	43	56
58				47	45	41	58
60				44	42	39	60
64				39	38	35	64
68				35	33	31	68
72					30	28	72
76					26	24	76
80					23	21	80

典型工况载荷表
Lifting Capacity Table in Typical Working Conditions

标准塔式副臂 Standard tower jib 主臂角度85°，车身平衡重 265t，转台平衡重 95t，主臂角度 85 度，主臂长度 54m Boom angle 85°, car–body counterweight 265t, turntable counterweight 95t, boom length 54m							
幅度Radius	副臂长度(m) Jib length (m)						幅度Radius
(m)	30	42	54	66	78	84	(m)
17	229						17
18	217						18
19	206						19
20	196	183					20
22	178	167					22
24	163	153	143				24
26	150	141	132				26
28	139	130	122	115			28
30	129	121	113	107	99		30
32	120	113	106	99	94	87	32
34	111	106	99	93	87	84	34
36		99	92	87	82	79	36
38		93	87	81	77	74	38
40		87	82	76	72	70	40
42		81	77	72	68	65	42
44		76	73	68	64	62	44
46		71	69	64	60	58	46
48			65	61	57	55	48
50			61	57	54	52	50
52			57	54	51	49	52
54			54	52	48	46	54
56			51	49	45	44	56
58			48	46	43	41	58
60				44	41	39	60
64				39	37	35	64
68				34	33	32	68
72					29	28	72
76					26	25	76
80					23	22	80

5.SHB–超起重型主臂 SHB–Superlift heavy boom



超起重型主臂
Superlift heavy boom
SHB：42–150m

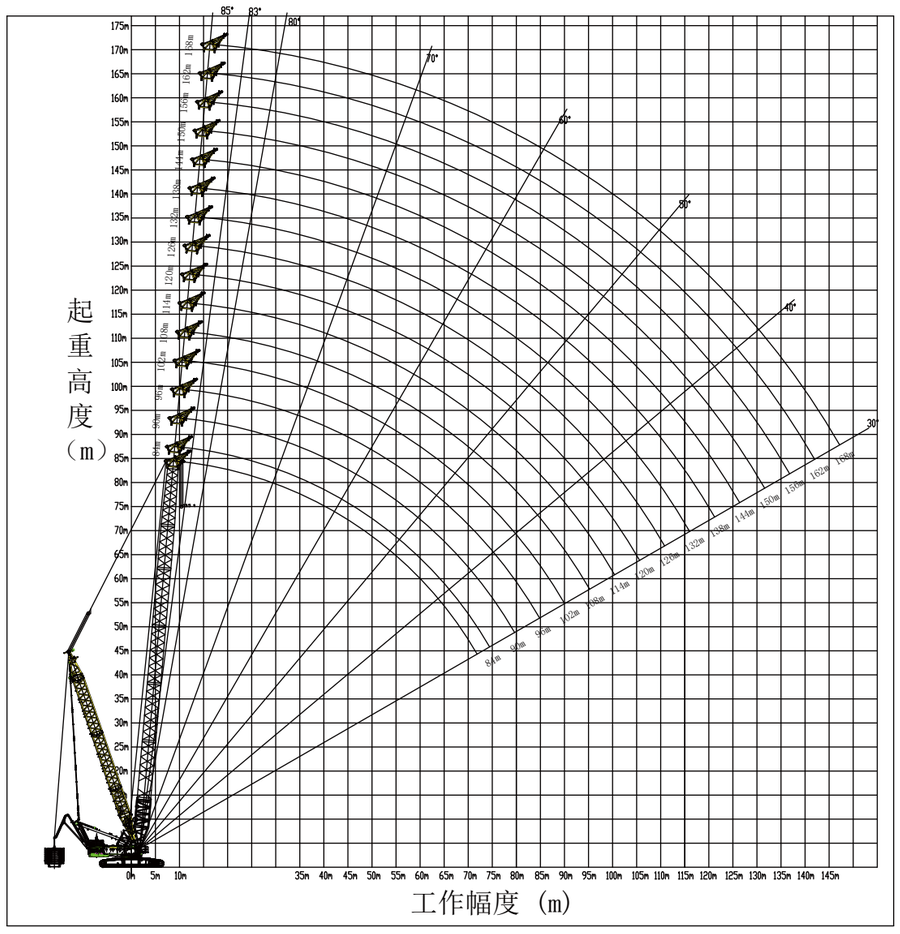
典型工况载荷表
Lifting Capacity Table in Typical Working Conditions

超起重型主臂 Superlift heavy boom 265t转台平衡重+95t车身平衡重+430t超起平衡重，超起平衡重半径22m，超起桅杆半径15m 265t turntable counterweight +95tcar–body counterweight+430t superlift counterweight, superlift counterweight radius 22m, superlift mast radius 15m									
幅度Radius	主臂（m）Boom length (m)								幅度Radius
(m)	42	48	54	60	66	72	78	84	(m)
8	800*								8
9	800*	800*	739*						9
10	800*	800*	739*	668*	585*				10
11	800*	800*	739*	668*	585*	533*			11
12	800*	800*	739*	668*	585*	533*	479*	452*	12
13	800*	800*	739*	668*	585*	533*	479*	452*	13
14	800*	800*	739*	668*	585*	533*	479*	452*	14
15	800	800	739*	668*	585*	533*	479*	452*	15
16	782	758	739	668*	585*	533*	479*	452*	16
17	713	712	711	668*	585*	533*	479*	452*	17
18	673	672	670	666	585*	533*	479*	452*	18
19	636	635	634	630	585*	533*	479*	452*	19
20	604	603	601	597	585	533*	479*	452*	20
22	547	546	545	540	539	533	479*	452*	22
24	495	499	497	493	492	489	479	452	24
26	449	458	457	453	451	449	447	432	26
28	407	424	423	418	417	414	413	403	28
30	369	394	392	388	387	384	383	378	30
32	336	364	366	362	360	358	356	354	32
34	305	337	343	339	337	335	333	331	34
36	278	312	322	318	316	314	312	310	36
38	251*	287	304	299	298	295	294	292	38
40		264	284	283	281	279	277	275	40

超起重型主臂 Superlift heavy boom 265t转台平衡重+95t车身平衡重+430t超起平衡重，超起平衡重半径22m，超起桅杆半径15m 265t turntable counterweight +95tcar–body counterweight+430t superlift counterweight, superlift counterweight radius 22m, superlift mast radius 15m								
幅度Radius	主臂（m）Boom length (m)							幅度Radius
(m)	90	96	102	108	114	120	126	(m)
13	425*	397*						13
14	425*	397*	369*	340*				14
15	425*	397*	369*	340*	311*			15
16	425*	397*	369*	340*	311*	307*	274*	16
17	425*	397*	369*	340*	311*	307*	274*	17
18	425*	397*	369*	340*	311*	307*	274*	18
19	425*	397*	369*	340*	311*	307*	274*	19
20	425*	397*	369*	340*	311*	307*	274*	20
22	425*	397*	369*	340*	311*	307*	274*	22
24	425*	397*	369*	340*	311*	307*	274*	24
26	411	390*	369*	340*	311*	307*	274*	26
28	384	365	348*	331*	311*	302*	274*	28
30	361	343	327*	312*	298*	284*	271*	30
32	340	324	309	294*	281*	268*	256*	32
34	321	307	292	279*	266*	253*	244*	34
36	305	291	278	265	253*	241*	232*	36
38	289	277	264	252	241*	229*	222*	38
40	273	264	252	240	230	219*	212*	40

典型工况载荷表
Lifting Capacity Table in Typical Working Conditions

6.SLB–超起轻型主臂 SLB–superlift light boom



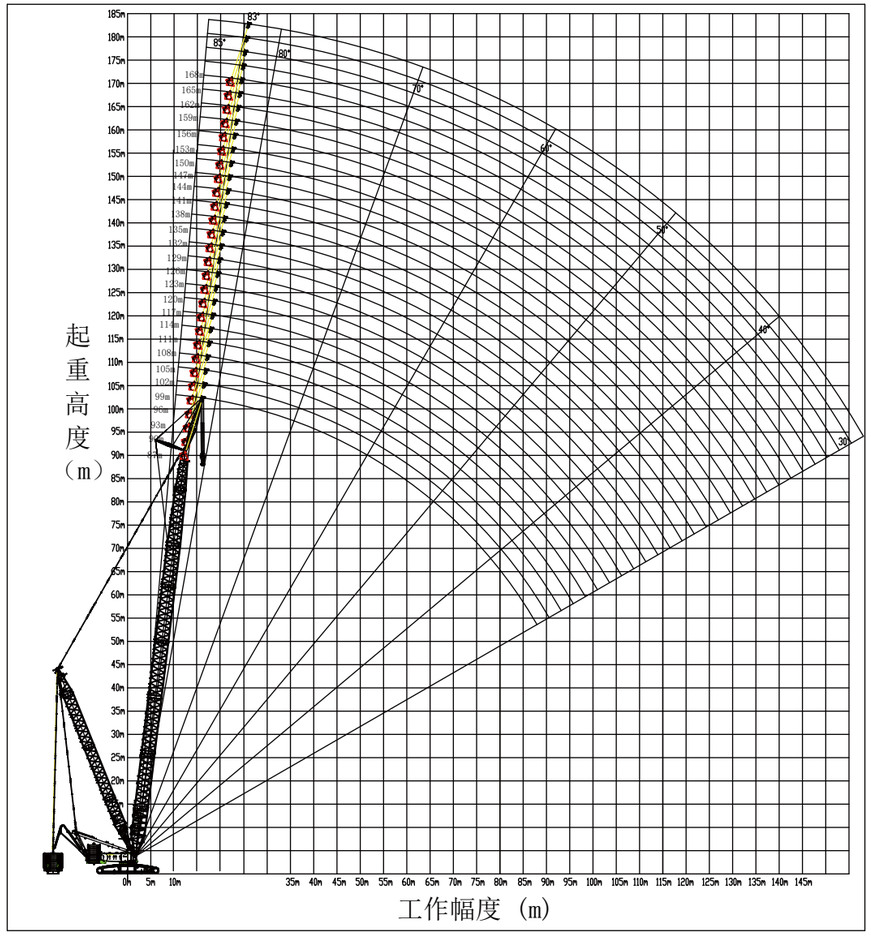
超起轻型主臂
Superlift light boom
SLB: 81–168m

超起轻型主臂 Superlift light boom 265t转台平衡重+95t车身平衡重+430t超起平衡重，超起平衡重半径22m，超起桅杆半径15m 265t turntable counterweight +95tcar–body counterweight+430t superlift counterweight, superlift counterweight radius 22m, superlift mast radius 15m							
幅度Radius	主臂（m） Boom length (m)						幅度Radius
(m)	90	96	102	108	114	120	(m)
12	395*						12
14	395*	367*	338*	338*			14
16	395*	367*	338*	338*	309*	280*	16
18	395*	367*	338*	338*	309*	280*	18
20	395*	367*	338*	338*	309*	280*	20
22	395*	367*	338*	338*	309*	280*	22
24	395*	367*	338*	338*	309*	280*	24
26	395*	367*	338*	338*	309*	280*	26
28	390	367*	338*	337*	309*	280*	28
30	367	349	333*	318*	303*	280*	30
32	346	330	315	300*	287*	274*	32
34	327	313	299	284*	272*	260*	34
36	311	297	284	271	258*	247*	36
38	295	283	270	258	246*	235*	38
40	278	270	258	246	235	225*	40
42	263	258	247	236	225	215	42
44	249	246	236	226	216	206	44
46	237	235	227	217	207	198	46
48	225	223	218	208	199	190	48
50	215	213	209	200	192	183	50
52	205	203	201	193	185	177	52
54	196	194	192	186	178	170	54
56	187	185	183	179	172	165	56
58	179	177	175	172	166	159	58

典型工况载荷表
Lifting Capacity Table in Typical Working Conditions

超起轻型主臂 Superlift light boom 265t转台平衡重+95t车身平衡重+430t超起平衡重，超起平衡重半径22m，超起桅杆半径15m 265t turntable counterweight +95tcar–body counterweight+430t superlift counterweight, superlift counterweight radius 22m, superlift mast radius 15m									
幅度Radius	主臂（m） Boom length (m)								幅度Radius
(m)	126	132	138	144	150	156	162	168	(m)
16	278*	251*							16
18	278*	251*	227*	205*	184*				18
20	278*	251*	227*	205*	184*	166*	149*	135*	20
22	278*	251*	227*	205*	184*	166*	149*	135*	22
24	278*	251*	227*	205*	184*	166*	149*	134*	24
26	278*	251*	227*	205*	184*	166*	149*	134*	26
28	278*	251*	227*	205*	184*	166*	149*	130*	28
30	277*	251*	227*	205*	184*	166*	148*	126*	30
32	262*	251*	227*	205*	184*	165*	144*	123*	32
34	248*	239*	227*	205*	183*	162*	140*	119*	34
36	236*	228*	219*	204*	181*	158*	136*	116*	36
38	225*	218*	209*	201*	177*	154*	132*	112*	38
40	216*	209*	200*	192*	173*	150*	129*	109*	40
44	199	193*	185*	177*	166*	143*	122*	103*	44
48	185	179	171	164*	159*	137*	116*	98*	48
52	172	166	159	153	147*	131*	111*	93*	52
56	160	155	148	143	137	125*	106*	88*	56
60	150	145	139	133	128	120	98*	80*	60

7.SHJ–超起风电副臂 SHJ–Superlift wind power jib



超起风电副臂
Superlift wind power jib
SHJ: (87–168) +12

典型工况载荷表
Lifting Capacity Table in Typical Working Conditions

SHJ–超起风电副臂–单臂 SHJ–Superlift wind power jib – single boom

主副臂夹角10°，副臂长度12m，265t转台平衡重+95t车身平衡重+90t超起平衡重，超起平衡重半径22m，超起桅杆半径15m

Angle between boom and jib 10°, jib length 12m, 265t turntable counterweight +95tcar–body counterweight+90t superlift counterweight, superlift counterweight radius 22m, superlift mast radius 15m

幅度Radius							幅度Radius
(m)	96	102	108	114	126	135	(m)
14							14
15	240	240					15
16	240	240	236				16
17	240	240	236	230			17
18	240	240	235	230	212		18
19	240	240	235	230	211	188	19
20	240	240	234	229	211	188	20
22	240	240	232	227	209	188	22
24	240	239	230	224	207	188	24
26	227	221	215	210	198	188	26
28	210	204	199	194	182	175	28
30	195	190	185	180	169	162	30
32	181	177	172	167	157	151	32
34	169	165	161	156	146	140	34
36	157	155	151	146	137	131	36
38	147	144	141	137	128	122	38
40	137	135	133	129	120	114	40
42	128	126	124	114	113	101	42
44	120	118	116	100	106	89	44
46	112	110	109	230	100	188	46
48	105	103	102	230	94	188	48

SHJ–超起风电副臂–单臂 SHJ–Superlift wind power jib – single boom

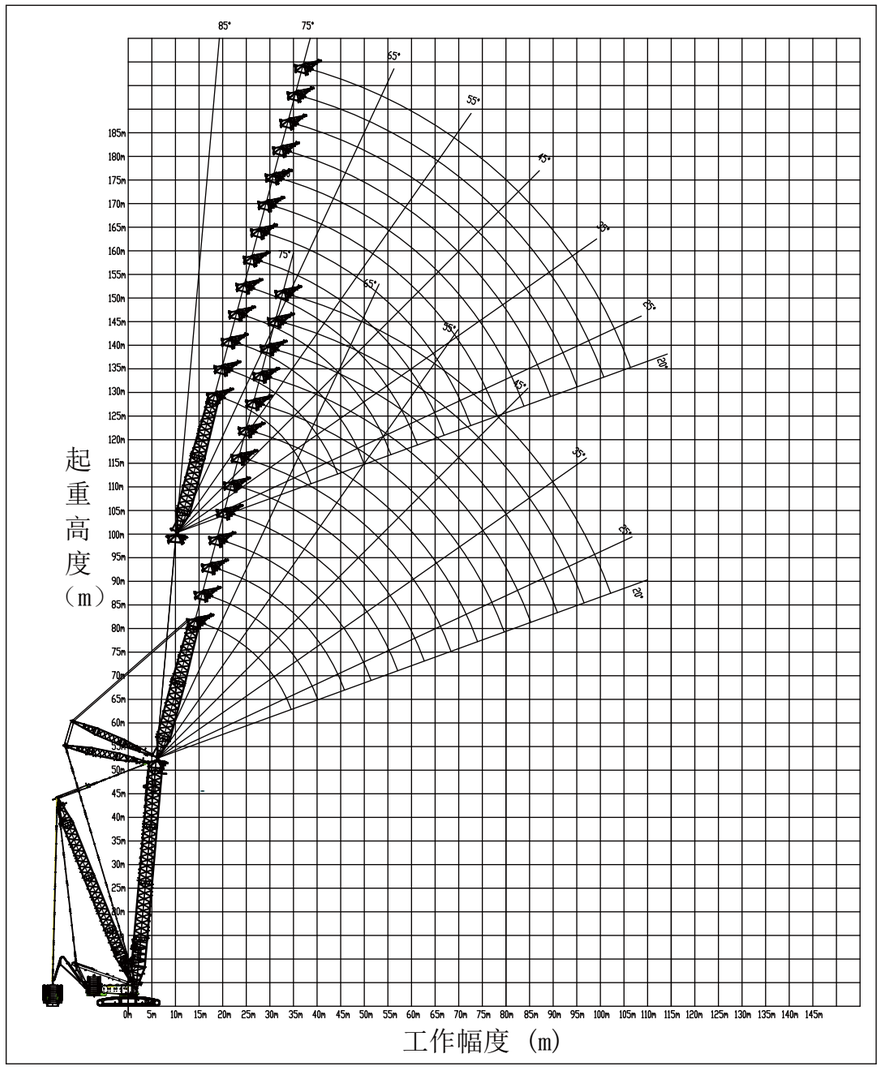
主副臂夹角10°，副臂长度12m，265t转台平衡重+95t车身平衡重+90t超起平衡重，超起平衡重半径22m，超起桅杆半径15m

Angle between boom and jib 10°, jib length 12m, 265t turntable counterweight +95tcar–body counterweight+90t superlift counterweight, superlift counterweight radius 22m, superlift mast radius 15m

幅度Radius								幅度Radius
(m)	144	147	153	156	162	165	168	(m)
19	162							19
20	162	155	141					20
22	162	155	141	134	122	116	110	22
24	162	155	141	134	122	116	110	24
26	162	155	141	134	122	116	110	26
28	162	155	141	134	122	116	110	28
30	155	154	141	134	122	116	110	30
32	144	143	139	134	122	116	110	32
34	134	133	129	127	121	115	109	34
36	125	124	120	118	114	113	109	36
38	116	116	112	110	107	105	103	38
40	109	108	104	102	99	98	96	40
44	95	95	91	89	86	85	83	44
48	84	83	80	78	75	74	72	48
52	74	73	70	68	66	64	63	52
56	65	64	61	60	57	56	54	56
60	57	57	54	52	50	49	47	60

典型工况载荷表
Lifting Capacity Table in Typical Working Conditions

8.SHW–超起塔式副臂 SHW–Superlift tower jib



超起塔式副臂
Superlift tower jib
SHW: (48–96)+(30–102)m

超起塔臂 Superlift tower jib 主臂角度85°，主臂长度48m，265t转台平衡重+95t车身平衡重+430t超起平衡重，超起平衡重半径22m，超起桅杆半径15m Boom angle 85°, boom length 48m, 265t turntable counterweight +95tcar-body counterweight+430t superlift counterweight, superlift counterweight radius 22m, superlift mast radius 15m								
幅度Radius	副臂长度(30~102) Jib length (30~102)							幅度Radius
(m)	30	42	54	66	78	90	102	(m)
17	383*							17
18	381*							18
19	379*							19
20	376*	278*						20
22	353*	277*						22
24	326*	275*	210*					24
26	299*	263*	209*	158*				26
28	275*	247*	209*	158*				28
30	250*	231*	202*	157*	119*			30
32	221*	216*	193*	157*	118*	89*		32
34	194*	201*	183*	156*	118*	89*		34
36		187*	173*	151*	117*	88*	66*	36
38		174*	164*	145*	117*	88*	66*	38
40		162*	154*	139*	117*	87*	65*	40
42		151*	145*	133*	115*	87*	65*	42
44		137*	137*	127*	111*	86*	64*	44
46		123*	129*	121*	107*	86*	64*	46
48			121*	115*	103*	85*	63*	48
50			114*	109*	99*	85*	63*	50
52			107*	104*	95*	83*	62*	52
54			101*	99*	91*	80*	62*	54
56			95*	94*	88*	78*	61*	56
58				89*	84*	75*	58*	58
60				84*	80*	73*	55*	60
64				76*	73*	66*	49*	64
68				68*	67*	60*	43*	68
72					61*	54*	37*	72
76					56*	49*	32*	76
80					50*	45*	28*	80
84						41*	24*	84
88						38*	20*	88

典型工况载荷表
Lifting Capacity Table in Typical Working Conditions

超起塔臂 Superlift tower jib

主臂角度85°，主臂长度60m，265t转台平衡重+95t车身平衡重+430t超起平衡重，超起平衡重半径22m，超起桅杆半径15m
Boom angle 85°, boom length 60m, 265t turntable counterweight +95tcar-body counterweight+430t superlift counterweight, superlift counterweight radius 22m, superlift mast radius 15m

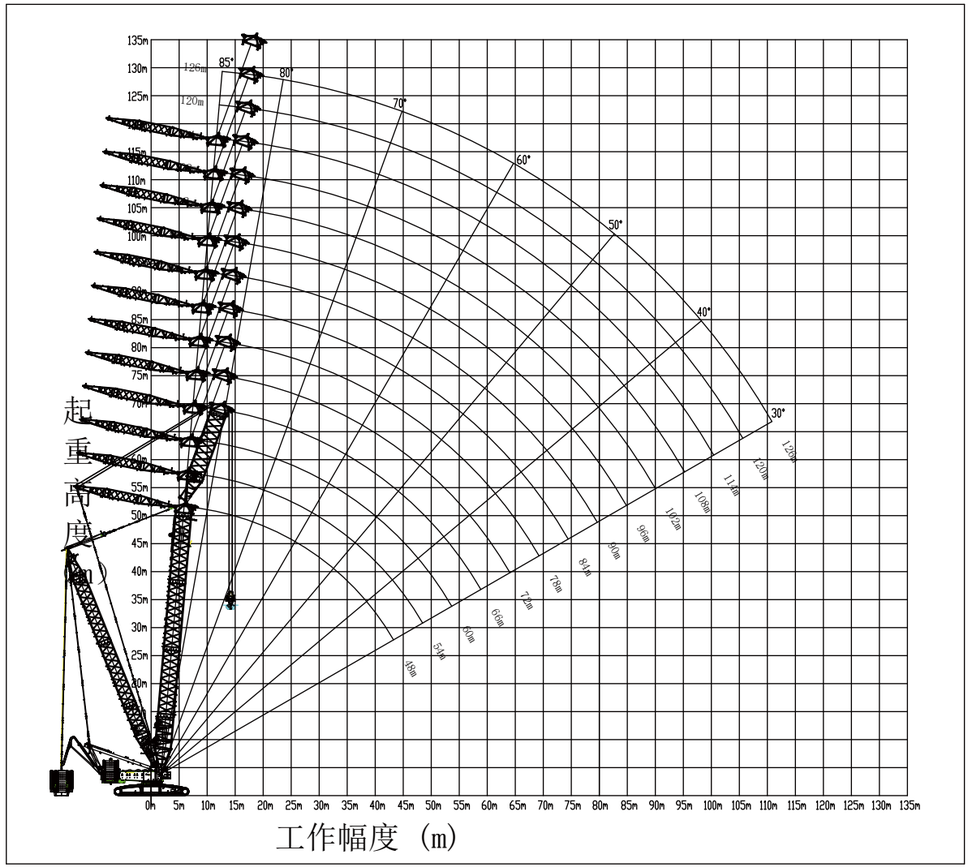
幅度Radius	副臂长度(30~102) Jib length (30~102)							幅度Radius
(m)	30	42	54	66	78	90	102	(m)
18	381*							18
19	379*							19
20	377*							20
22	359*	278*						22
24	329*	276*	210*					24
26	299*	267*	210*					26
28	272*	249*	209*	158*				28
30	247*	231*	206*	158*	119*			30
32	224*	214*	194*	157*	118*			32
34	203*	198*	183*	157*	118*	89*		34
36	180*	182*	172*	153*	118*	88*	67*	36
38		168*	161*	145*	117*	88*	66*	38
40		155*	150*	138*	117*	88*	66*	40
42		143*	141*	131*	116*	87*	65*	42
44		131*	131*	124*	111*	87*	65*	44
46		121*	122*	117*	106*	86*	64*	46
48			114*	111*	102*	86*	64*	48
50			106*	104*	97*	85*	63*	50
52			99*	98*	92*	82*	62*	52
54			92*	92*	88*	79*	62*	54
56			86*	87*	84*	76*	61*	56
58			81*	82*	80*	73*	59*	58
60				77*	76*	70*	56*	60
64				69*	68*	64*	50*	64
68				61*	61*	59*	44*	68
72					55*	54*	39*	72
76					50*	49*	33*	76
80					45*	45*	29*	80
84						41*	25*	84
88						37*	21*	88
92						34*		92

超起塔臂 Superlift tower jib

主臂角度85°，主臂长度96m，265t转台平衡重+95t车身平衡重+430t超起平衡重，超起平衡重半径22m，超起桅杆半径15m
Boom angle 85°, boom length 96m, 265t turntable counterweight +95tcar-body counterweight+430t superlift counterweight, superlift counterweight radius 22m, superlift mast radius 15m

幅度Radius	副臂长度(30~102) Jib length (30~102)							幅度Radius
(m)	30	42	54	66	78	90	102	(m)
22	229*							22
24	222*	181*						24
26	206*	178*						26
28	191*	171*	143*					28
30	176*	160*	142*	114*				30
32	162*	150*	135*	113*				32
34	149*	140*	127*	112*	89*			34
36	138*	130*	120*	107*	89*	70*		36
38	127*	121*	113*	102*	89*	69*		38
40		112*	106*	97*	85*	69*	53*	40
42		104*	99*	92*	82*	69*	53*	42
44		96*	93*	87*	78*	68*	53*	44
46		89*	87*	82*	75*	65*	53*	46
48		83*	81*	77*	71*	63*	52*	48
50		77*	76*	73*	68*	60*	52*	50
52			71*	68*	64*	58*	50*	52
54			66*	64*	61*	55*	48*	54
56			62*	61*	58*	53*	46*	56
58			58*	57*	55*	50*	44*	58
60			54*	54*	52*	48*	43*	60
64				48*	46*	44*	39*	64
68				42*	41*	39*	36*	68
72				38*	37*	36*	33*	72
76					33*	32*	30*	76
80					30*	29*	27*	80
84					27*	26*	25*	84
88						24*	22*	88
92						22*		92

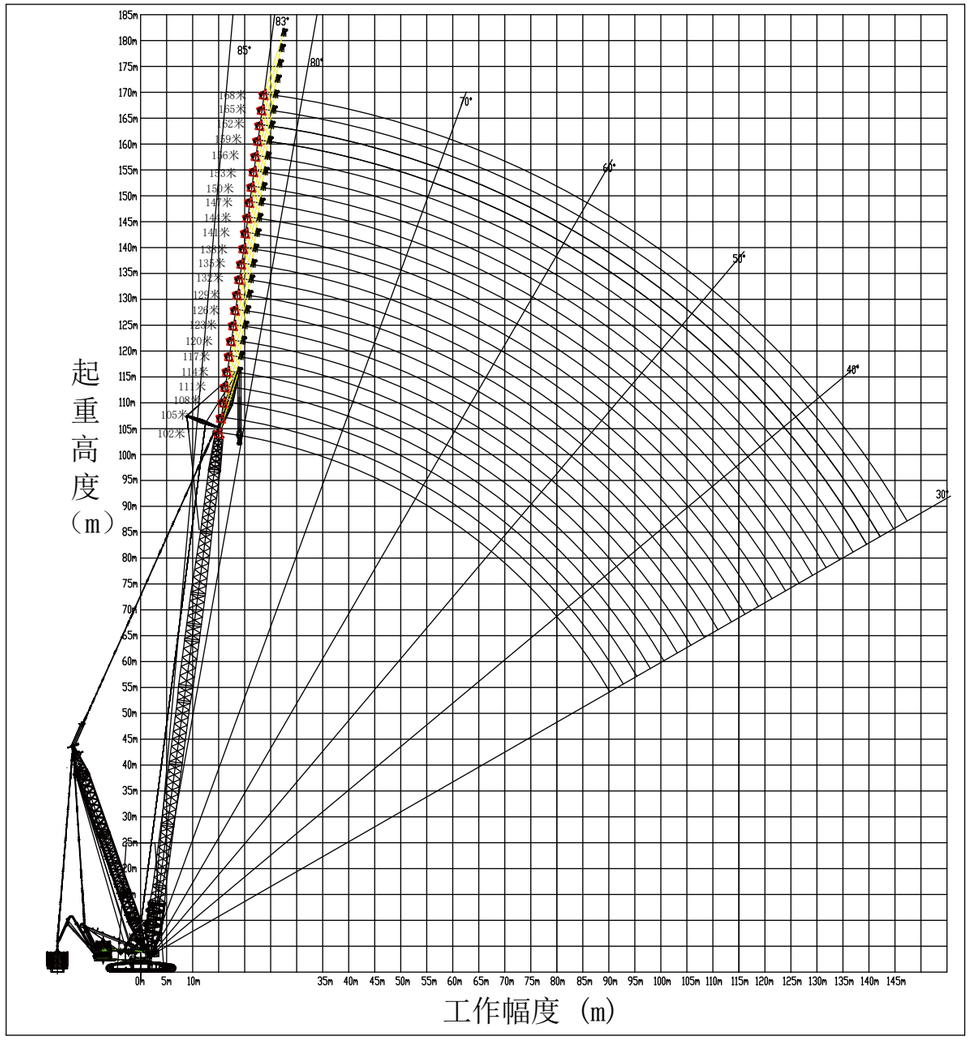
9.SHVJ–超起专用副臂 SHVJ–Superlift special jib



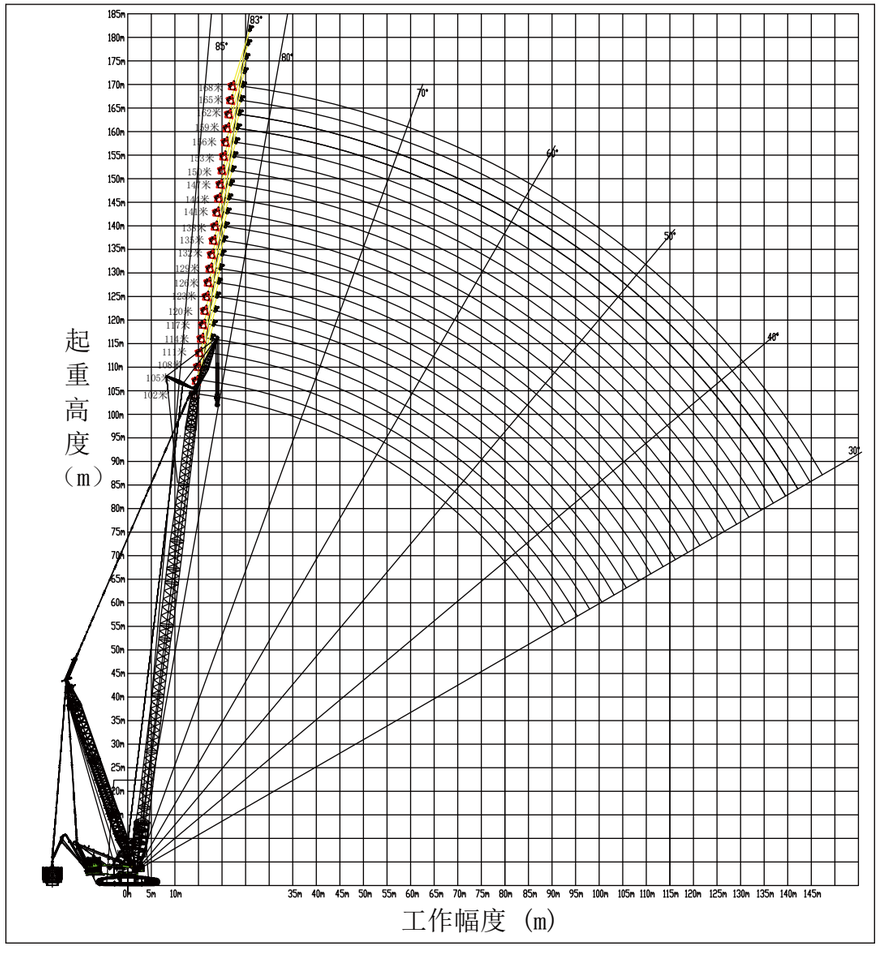
超起专用副臂
Superlift special jib
SHVJ: (90–102) +12

超起专用副臂 Superlift special jib 副臂长度12m，265t转台平衡重+95t车身平衡重+430t超起平衡重 超起平衡重半径22m，超起桅杆半径15m Jib length 12m, 265t turntable counterweight +95t car-body counterweight+430t superlift counterweight, superlift counterweight radius 22m, superlift mast radius 15m				
幅度Radius				幅度Radius
(m)	90	96	102	(m)
18	335*	306*		18
19	335*	306*		19
20	335*	306*	288*	20
22	335*	306*	288*	22
24	335*	306*	288*	24
26	335*	306*	288*	26
28	335*	306*	288*	28
30	335	306*	288*	30
32	321	306	288*	32
34	301	288	275	34
36	284	272	260	36
38	268	257	245	38
40	254	243	233	40
42	241	231	221	42
44	227	219	210	44
46	214	209	200	46
48	202	199	190	48
50	191	189	182	50

10.SHJ–DS超起工况风电副臂–单双组合臂 Superlift wind power jib–double boom



SHJ–DS超起工况风电副臂–单双组合臂（安装角10° ）作业范围图
SHJ–DS Superlift special jib – single/double boom (installation angle 10°) working range



SHJ–DS超起工况风电副臂–单双组合臂（安装角15° ）作业范围图
SHJ–DS Superlift special jib – single/double boom (installation angle 15°) working range

典型工况载荷表
Lifting Capacity Table in Typical Working Conditions

超起工况风电副臂-单双组合臂性能表（主副臂夹角10°） 单位 t Superlift wind power jib-double boom lifting capacity table (jib angle 10°) Unit: t 265t转台平衡重+95t车身平衡重，超起桅杆半径15m，超起桅杆半径16m，超起平衡重（0-430）t 265t turntable counterweight +95t car-body counterweight, superlift mast radius 15m, Superlift mast radius 16m, superlift counterweight (0-430)t						
副臂Jib（m）	12 主臂（m）Boom (m)					副臂（m）
幅度Radius（m）	156	159	162	165	168	幅度Radius（m）
26	148*	143*	140*	131*	122*	26
28	147*	142*	137*	130*	122*	28
30	146*	142*	137*	130*	122*	30
32	146*	134*	136*	122*	122*	32
34	145*	133*	128*	121*	122*	34
36	135*	131*	126*	120*	114*	36
38	133*	129*	124*	120*	113*	38
40	131	127*	122*	118*	112*	40
44	127	122	118	114	111	44
48	122	119	114	110	108	48
52	117	115	111	107	105	52
56	108	107	104	102	98	56
60	105	104	101	100	96	60

超起工况风电副臂-单双组合臂性能表（主副臂夹角15°） 单位 t Superlift wind power jib-double boom lifting capacity table (jib angle 15°) Unit: t 265t转台平衡重+95t车身平衡重，超起桅杆半径15m，超起桅杆半径16m，超起平衡重（0-430）t 265t turntable counterweight +95t car-body counterweight, superlift mast radius 15m, Superlift mast radius 16m, superlift counterweight (0-430)t						
副臂Jib（m）	12 主臂（m）Boom (m)					副臂Jib（m）
幅度Radius（m）	156	159	162	165	168	幅度Radius（m）
26	142*	139*	136*	130*	122*	26
28	141*	138*	135*	129*	122*	28
30	140*	138*	133*	129*	122*	30
32	140*	136*	131*	127*	121*	32
34	138*	134*	129*	125*	121*	34
36	136*	132*	128*	124*	120*	36
38	134*	130*	126*	122*	120*	38
40	132*	128*	124*	120*	118*	40
44	128	125	120	117	115*	44
48	125	121	117	114	112	48
52	121	118	114	111	109	52
56	115	113	110	108	105	56
60	112	110	108	105	98	60

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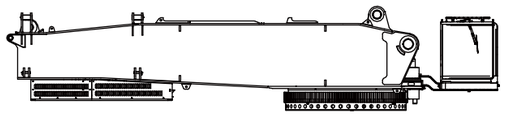
XGC12000履带起重机

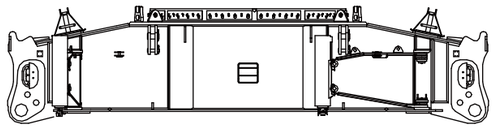
P43-P54 参考运输方案
Transport Plan

XGC12000主要零部件运输重量及尺寸
Transport weight and dimension of XGC12000 main parts



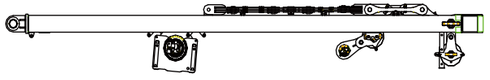
主机 Ⅰ/Basic machine Ⅰ	×1
长(L)	13.5 m
宽(W)	3.468 m
高(H)	2.76 m
重量(W)	47 t

包括转台、驾驶室、转台液压系统、动力系统等
Include turntable, cab, turntable hydraulic system, power system and etc.



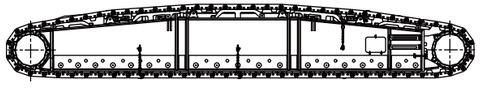
主机 Ⅱ/Basic machine Ⅱ	×1
长(L)	8.304 m
宽(W)	3.889 m
高(H)	2.025 m
重量(W)	36.6 t

包括车架、支腿、油缸、支脚盘
Include car–body, cylinder and outrigger pads

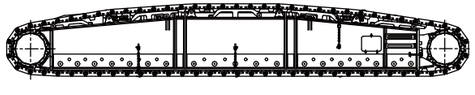


桅杆组件/Mast assembly	×1
长(L)	13.632 m
宽(W)	2.12 m
高(H)	1.668 m
重量(W)	22 t

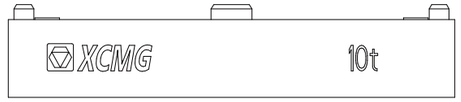
包含桅杆、主变幅机构、主变幅滑轮组、自拆装油缸、部分拉板等
Include mast, boom luffing system, boom luffing sheave block, self–assembly cylinder, some pendant and etc.

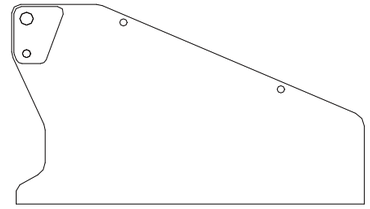


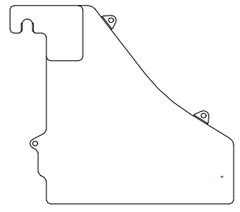
左履带架/Left track frame	×1
长(L)	13.337 m
宽(W)	1.5 m
高(H)	2.035 m
重量(W)	54.6 t

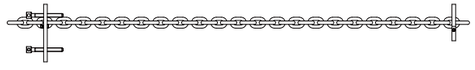


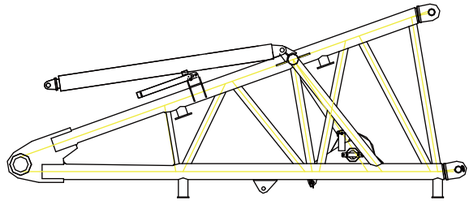
右履带架/Right track frame	×1
长(L)	13.337 m
宽(W)	1.5 m
高(H)	2.035 m
重量(W)	55 t











平衡重块/Counterweight block	×70
长(L)	2.75 m
宽(W)	2.0 m
高(H)	0.395 m
重量(W)	10 t

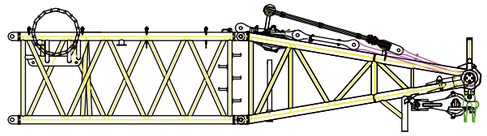
车身平衡重箱/Car–body counterweight box	×2
长(L)	2.345 m
宽(W)	3.215 m
高(H)	1.16 m
重量(W)	17.5 t

转台平衡重箱/Turntable counterweight box	×2
长(L)	3.23 m
宽(W)	2.64 m
高(H)	2.34 m
重量(W)	12.5 t

转台平衡重锁紧链条组件/Turntable counterweight locking chain	×1

超起桅杆底节/SL mast butt	×1
长(L)	6.4 m
宽(W)	3.15 m
高(H)	2.67 m
重量(W)	6.85 t

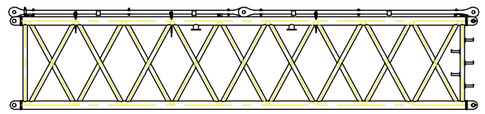
参考运输方案
Transport Plan



超起桅杆一体运输组件/Integrated transport parts of SL mast ×1

长(L)	12.42 m
宽(W)	3.74 m
高(H)	3.337 m
重量(W)	20.97 t

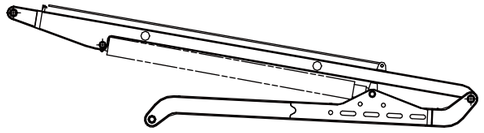
包括超起桅杆6m节、超起变幅机构、超起变幅滑轮组、超起桅杆顶节及部分随臂拉板
Include 6m SL mast insert, SL luffing system, SL luffing sheave block, SL mast top, some pendant



超起桅杆12m节/12m SL mast insert ×2

长(L)	12.29 m
宽(W)	2.735 m
高(H)	2.675 m
重量(W)	8.95 t

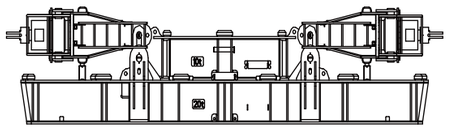
包括随臂拉板
Include pendant



超起推移装置/Superlift counterweight pushing device ×1

长(L)	8.101 m
宽(W)	4.044 m
高(H)	2.007 m
重量(W)	7.252 t

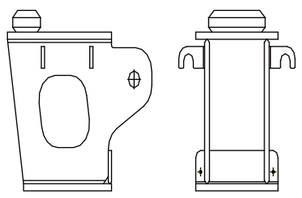
包括推移支架及两个推移油缸
Include bracket and two pushing cylinders



超起平衡重托盘/SL counterweight tray ×1

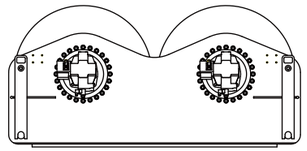
长(L)	9.53 m
宽(W)	2.76 m
高(H)	1.76 m
重量(W)	30 t

包括提升油缸及其支架
Include lifting cylinder and bracket



超起平衡重托盘Ⅱ/SL counterweight tray II ×2

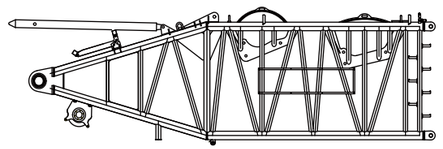
长(L)	0.9 m
宽(W)	0.72 m
高(H)	0.75 m
重量(W)	0.35 t



主起升机构/Main hoist winch ×1

长(L)	2.57 m
宽(W)	2.25 m
高(H)	1.26 m
重量(W)	14.9 t

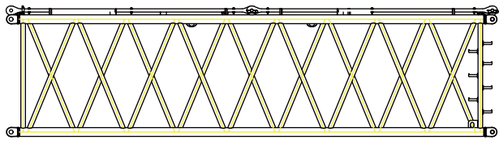
含钢丝绳



主臂底节(1)/Boom butt(1) ×1

长(L)	10.885 m
宽(W)	3.29 m
高(H)	3.408 m
重量(W)	16.8 t

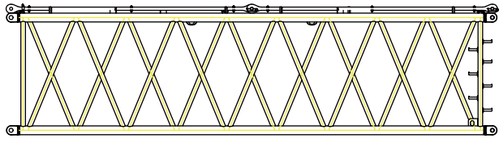
包括防后倾油缸2件、穿绳卷扬机构一套
Include two backstop cylinders, reeving winch



主臂重型12m过渡节(17)/12m heavy boom transition section(17) ×1

长(L)	12.250 m
宽(W)	3.730 m
高(H)	3.246 m
重量(W)	12.75 t

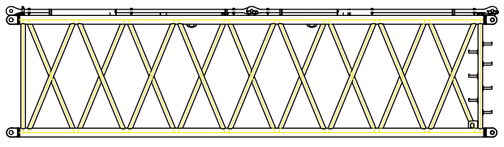
含相应拉板
Include pendant



主臂重型12m超强节(18)/12m heavy boom insert (strengthened)(18) ×2

长(L)	12.250 m
宽(W)	3.730 m
高(H)	3.246 m
重量(W)	12.87 t

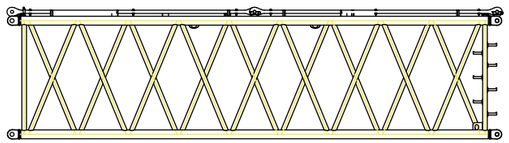
含相应拉板
Include pendant



主臂重型12m加强节(22)/12m heavy boom insert (strengthened) (22) ×1

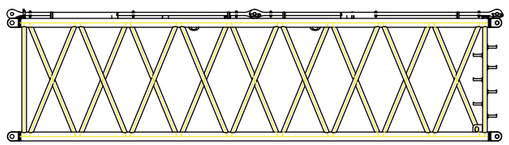
长(L)	12.250 m
宽(W)	3.730 m
高(H)	3.246 m
重量(W)	11.48 t

含相应拉板
Include pendant



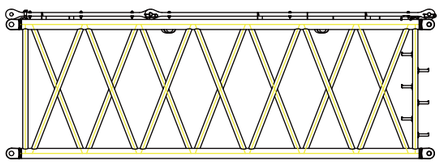
主臂重型12m加强节(7)/12m heavy boom insert (strengthened)(7)	×3
长(L)	12.250 m
宽(W)	3.730 m
高(H)	3.246 m
重量(W)	11.41 t

含相应拉板
Include pendant



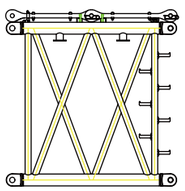
主臂重型12m加强腰绳节(21)/12m heavy boom insert (strengthened)–center hitch(21)	×1
长(L)	12.250 m
宽(W)	3.730 m
高(H)	3.246 m
重量(W)	11.42 t

含相应拉板
Include pendant



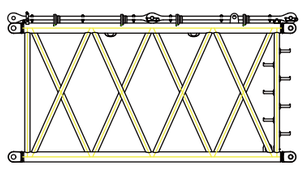
主臂9m过渡节(8)/9m boom transition section(8)	×1
长(L)	9.250 m
宽(W)	3.730 m
高(H)	3.246 m
重量(W)	7.57 t

含相应拉板
Include pendant



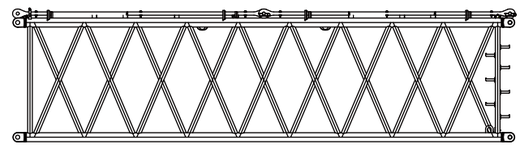
主臂3m节(9)/3m boom insert(9)	×1
长(L)	3.25 m
宽(W)	3.235 m
高(H)	3.171 m
重量(W)	3.25 t

含相应拉板
Include pendant



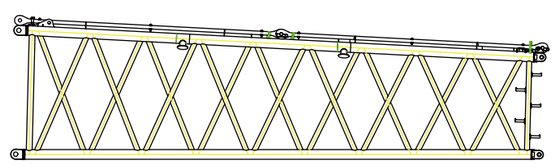
主臂6m节(10)/6m boom insert(10)	×1
长(L)	6.25 m
宽(W)	3.29 m
高(H)	3.25 m
重量(W)	5.43 t

含相应拉板
Include pendant



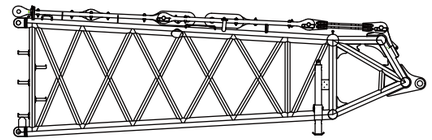
主臂12m节(11)/12m boom insert(11)	×2
长(L)	12.23 m
宽(W)	3.29 m
高(H)	3.25 m
重量(W)	9.51 t

含相应拉板
Include pendant



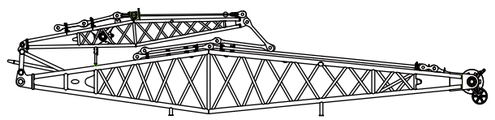
主臂12m过渡节(12)/12m boom transition section(12)	×1
长(L)	12.26 m
宽(W)	3.23 m
高(H)	3.178 m
重量(W)	6.96 t

含相应拉板
Include pendant



7.5m风电顶节(14)/7.5m wind power jib top(14)	×1
长(L)	8.517 m
宽(W)	2.694 m
高(H)	2.634 m
重量(W)	5.80 t

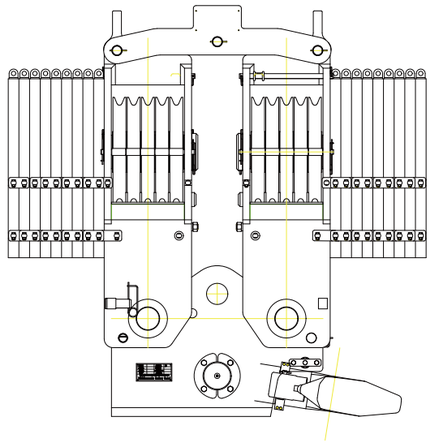
含相应拉板
Include pendant



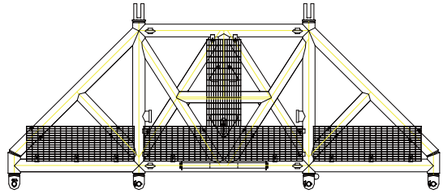
12m风电副臂/12m wind power jib	×2
长(L)	12.771 m
宽(W)	2.54 m
高(H)	2.679 m
重量(W)	6.144 t

含相应拉板
Include pendant

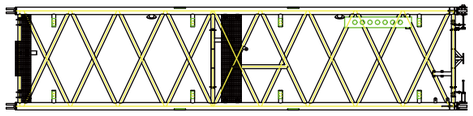
参考运输方案
Transport Plan



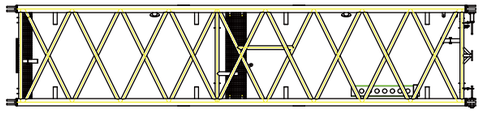
240t吊钩/240t capacity hook block	×1
长(L)	2.352 m
宽(W)	1.062 m
高(H)	2.33 m
重量(W)	9.2 t



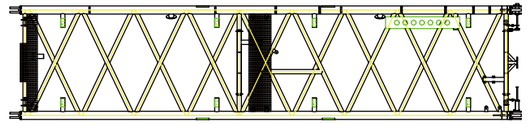
主臂3m过渡节Ⅰ(2)/3m boom transition section Ⅰ(2)	×1
长(L)	7.619 m
宽(W)	3.218 m
高(H)	3.234 m
重量(W)	9.89 t



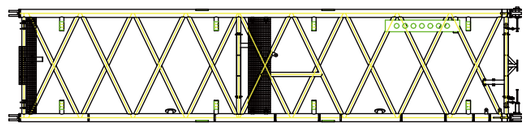
主臂双臂12m节Ⅰ(3)/12m double-boom section Ⅰ(3)	×2
长(L)	12.194 m
宽(W)	2.892 m
高(H)	2.657 m
重量(W)	5.083 t



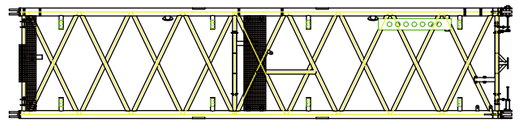
主臂双臂12m节Ⅱ(3)/12m double-boom section Ⅱ(3)	×2
长(L)	12.194 m
宽(W)	2.892 m
高(H)	2.657 m
重量(W)	5.083 t



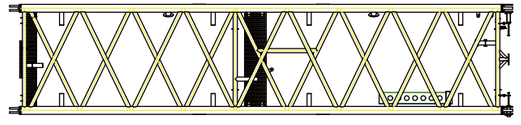
主臂双臂12m节Ⅲ(4)/12m double-boom section Ⅲ(4)	×1
长(L)	12.194 m
宽(W)	2.892 m
高(H)	2.657 m
重量(W)	5.093 t



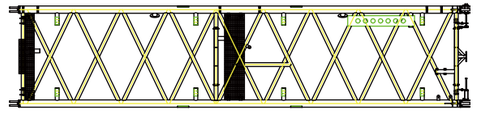
主臂双臂12m节Ⅳ(4)/12m double-boom section Ⅳ(4)	×1
长(L)	12.194 m
宽(W)	2.892 m
高(H)	2.657 m
重量(W)	5.093 t



主臂双臂12m节Ⅴ(5)/12m double-boom section Ⅴ(5)	×1
长(L)	12.194 m
宽(W)	2.892 m
高(H)	2.657 m
重量(W)	5.117 t



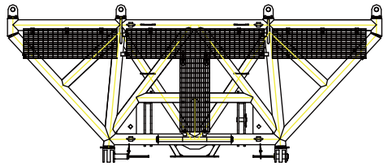
主臂双臂12m节Ⅵ(5)/12m double-boom section Ⅵ(5)	×1
长(L)	12.194 m
宽(W)	2.892 m
高(H)	2.657 m
重量(W)	5.117 t



主臂双臂12m节Ⅶ(5.1)/12m double-boom section Ⅶ(5.1)	×1
长(L)	12.194 m
宽(W)	2.892 m
高(H)	2.657 m
重量(W)	4.851 t

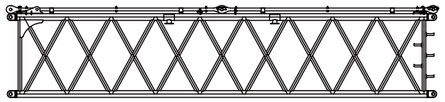
主臂双臂12m节Ⅷ(5.1)/12m double-boom section Ⅷ(5.1) ×1

长(L)	12.194 m
宽(W)	2.892 m
高(H)	2.657 m
重量(W)	4.851 t



主臂3m过渡节Ⅱ(6)/3m boom transition section Ⅱ(6) ×1

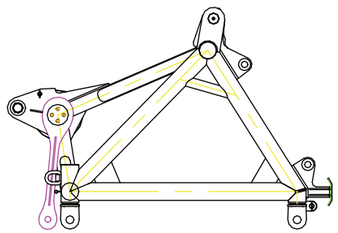
长(L)	7.619 m
宽(W)	3.218 m
高(H)	3.234 m
重量(W)	10.02 t



风电副臂12米后拉板节(15)/12m wind power jib rear pendant(15) ×1

长(L)	12.225 m
宽(W)	2.7 m
高(H)	2.70 m
重量(W)	6.20 t

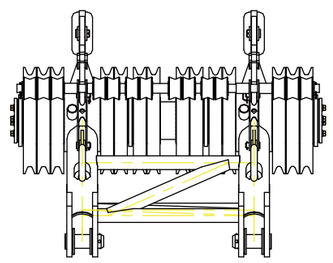
含相应拉板
Include pendant



重型臂臂头(15)/Heavy-duty boom head (15) ×1

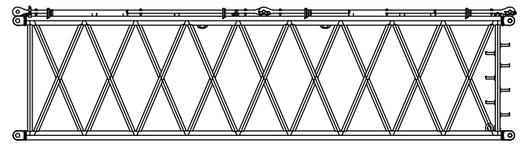
长(L)	4.01 m
宽(W)	3.41 m
高(H)	2.75 m
重量(W)	6.82 t

含相应拉板
Include pendant



臂头滑轮组/Boom head sheave block ×2

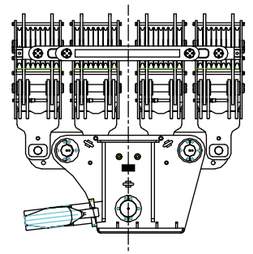
长(L)	1.831 m
宽(W)	1.43 m
高(H)	1.644 m
重量(W)	2.1 t



主臂12m顶节（带塔臂后支架防后倾滑到）(20) ×1
12m boom top (with the sliding track of tower jib rear strut backstop)(20)

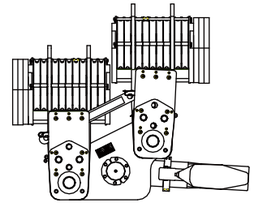
长(L)	12.23 m
宽(W)	3.29 m
高(H)	3.25 m
重量(W)	10.54 t

含相应拉板
Include pendant



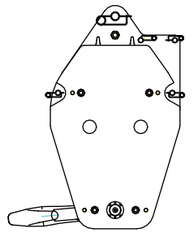
800t吊钩/800t capacity hook block ×1

长(L)	4.846 m
宽(W)	3.77 m
高(H)	1.09 m
重量(W)	20.88 t



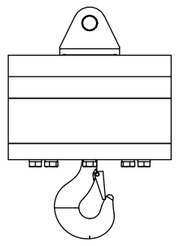
500t吊钩/500t capacity hook block ×1

长(L)	2.73 m
宽(W)	1.78 m
高(H)	2.29 m
重量(W)	13.5 t



50t吊钩/50t capacity hook block ×1

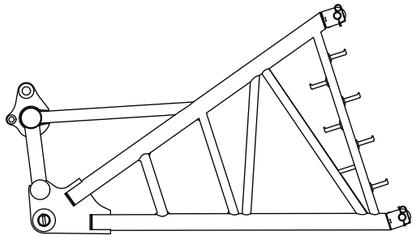
长(L)	1.01 m
宽(W)	0.64 m
高(H)	1.32 m
重量(W)	2.5 t



16t吊钩/16t capacity hook block ×1

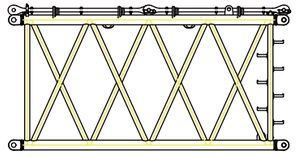
长(L)	0.6 m
宽(W)	0.6 m
高(H)	0.87 m
重量(W)	0.88 t

参考运输方案
Transport Plan



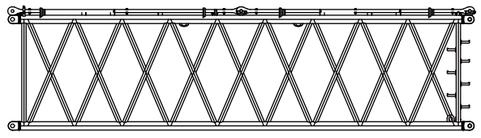
塔臂底节(23)/Tower jib butt(23)	×1
长(L)	4.80 m
宽(W)	3.3 m
高(H)	3.2 m
重量(W)	5.76 t

含相应拉板
Include pendant



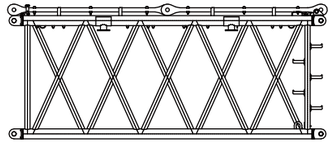
主臂6m节(10)/6m boom insert(10)	×1
长(L)	6.25 m
宽(W)	3.29 m
高(H)	3.25 m
重量(W)	5.43 t

含相应拉板
Include pendant



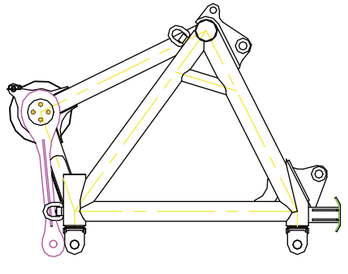
主臂12m轻型节(19)/12m light boom insert(19)	×2
长(L)	12.23 m
宽(W)	3.29 m
高(H)	3.25 m
重量(W)	8.59 t

含相应拉板
Include pendant

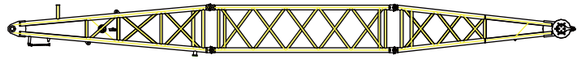


塔臂6m腰绳节(24)/6m tower jib insert–center hitch(24)	×1
长(L)	6.25 m
宽(W)	2.81 m
高(H)	2.62 m
重量(W)	3.54 t

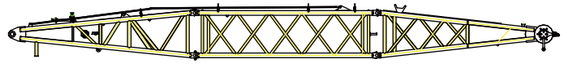
含相应拉板
Include pendant



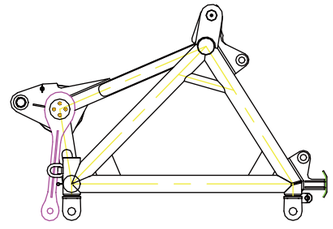
塔臂臂头(16)/Tower jib head (16)	×1
长(L)	3.29 m
宽(W)	2.79 m
高(H)	2.42 m
重量(W)	6.9 t



塔臂前支架/Tower jib front strut	×1
长(L)	18.603 m
宽(W)	2.1 m
高(H)	1.57 m
重量(W)	7.47 t

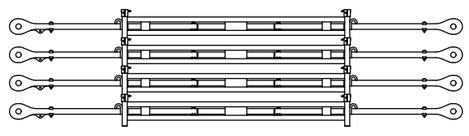


塔臂后支架/Tower jib rear strut	×1
长(L)	18.083 m
宽(W)	2.1 m
高(H)	1.78 m
重量(W)	8.29 t

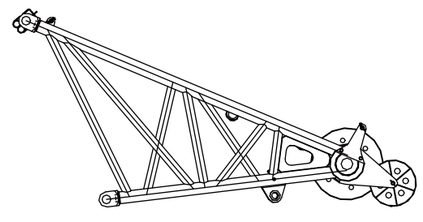


专用副臂臂头(15)/Special jib head (15)	×1
长(L)	4.01 m
宽(W)	3.41 m
高(H)	2.75 m
重量(W)	6.82 t

带拉板
Include pendant



装架运输拉板/Pendant transported on bracket	×4
长(L)	6.25 m
宽(W)	1.45 m
高(H)	1.66 m
重量(W)	2.47 t



臂端单滑轮/Single top unit	×1
长(L)	3.39 m
宽(W)	1.14 m
高(H)	1.66 m
重量(W)	0.78 t