

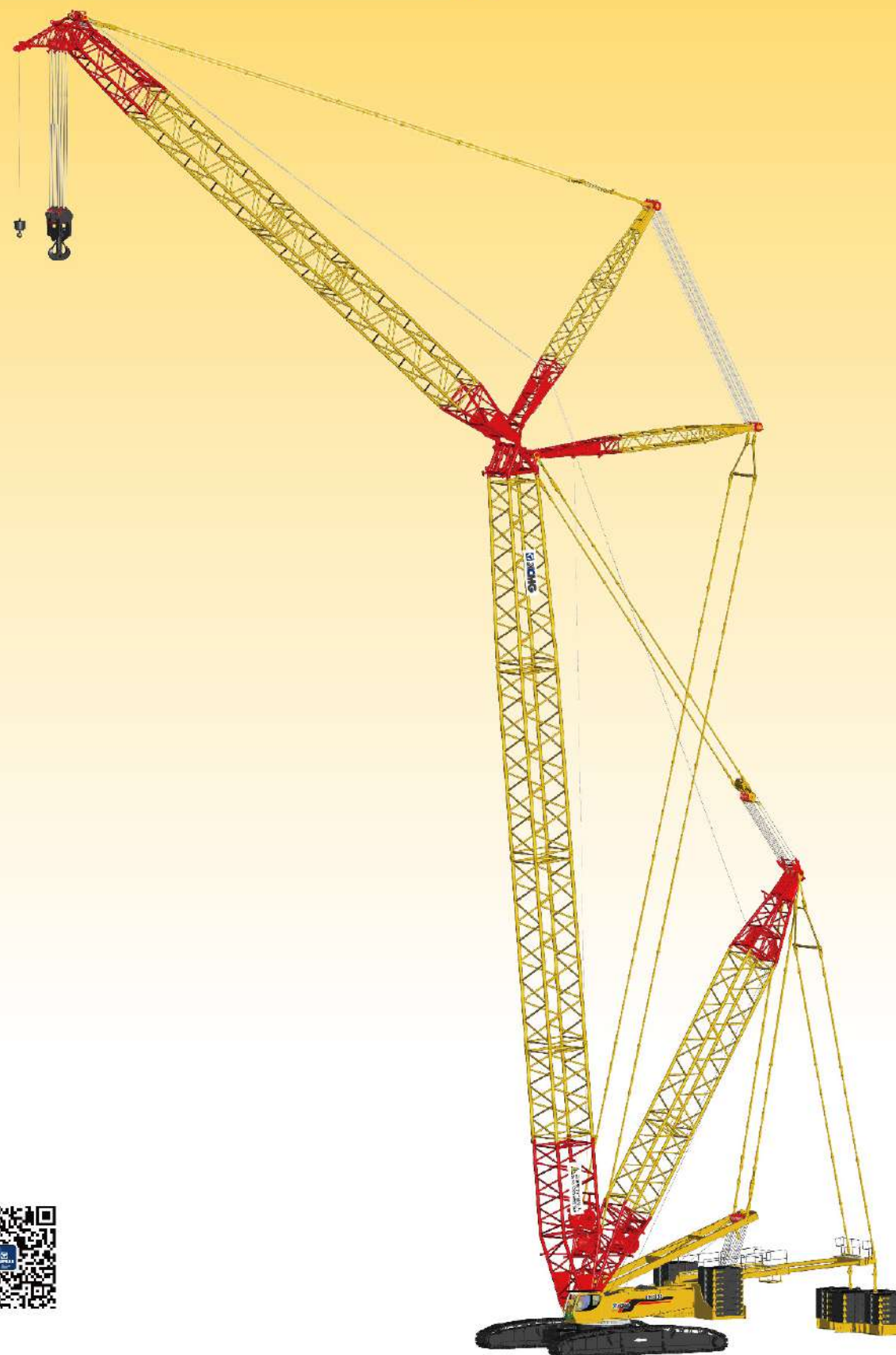
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XGC650履带起重机

XGC650 CRAWLER CRANE

XGC650 履带起重机

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徐工集团工程机械股份有限公司

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技术性能参数/整机基本尺寸 Technical Specification/Overall Dimension

主要零部件 Main Parts

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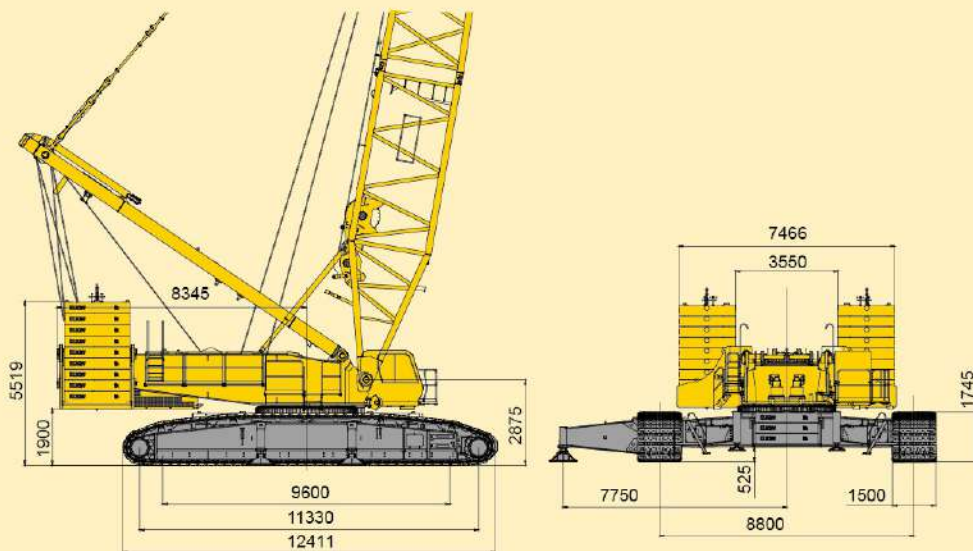
超起工况风电副臂臂节组合/风电副臂
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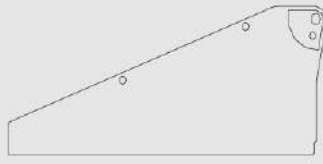
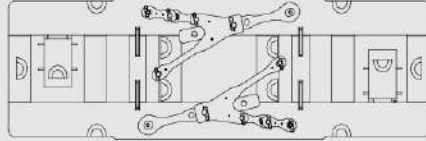

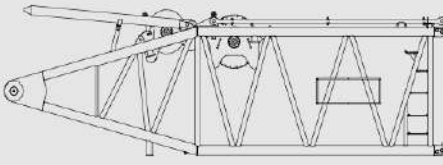
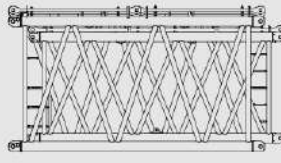
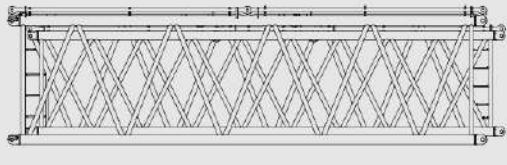
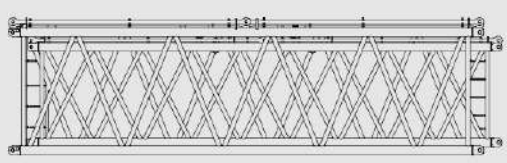
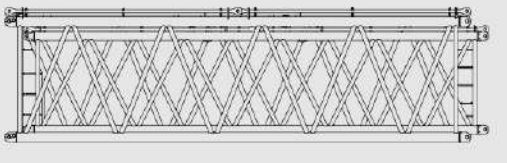
项目 Items	单位 Unit	数值 Data	
最大额定起重重量 Max. lifting capacity	t	650	
标准工况 Standard mode	重型主臂 Heavy boom	m	24~96
	轻型主臂 Light boom	m	66~108
	风电副臂 Boom point for wind power	m	12
	塔式副臂 Tower jib	m	24~84
超起工况 SL mode	重型主臂长度 Heavy boom length	m	36~108
	轻型主臂长度 Light boom length	m	90~138
	风电副臂长度 Boom Point For Wind Power length	m	12
	塔式副臂长度 Tower jib length	m	24~96
专用副臂长度 Special jib length	m	12	
最大单绳起升速度 (空载, 第几层) Winch max. single line speed	m/min	130	
主臂变幅最大单绳速度 Boom luffing winch max. single line speed	m/min	56×2	
回转速度 Slewing speed	r/min	0.7	
行走速度 Travel speed	km/h	0.8	
平均接地比压 Mean ground pressure	MPa	0.146	
发动机功率 Engine output power	kw	447	
整机重量 (24m重型主臂、500t吊钩) Total vehicle weight (24m heavy boom, 500t capacity hook block)	t	496	
最大单件 (主机) 运输重量 Max. weight of single unit (basic machine) in travel configuration	t	66	
最大单件 (主机) 运输尺寸 (长×宽×高) Max. dimension of single unit (basic machine) in travel configuration (L×W×H)	m	12×3.4×3.4	

本印刷品所包含的数据, 会随着产品的不断升级而改变, 请以实际产品为准
Pictures and data in this catalog will change with the update and modification of products, so please take the actual vehicle as reference.

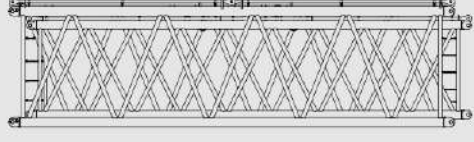
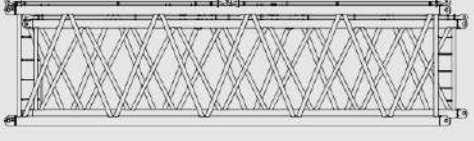
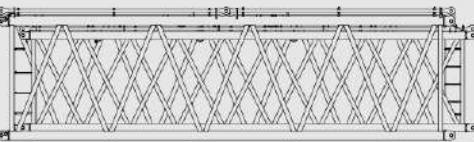
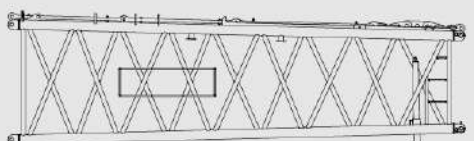
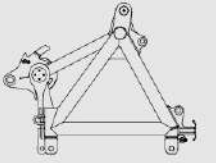
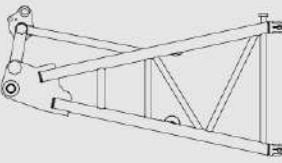
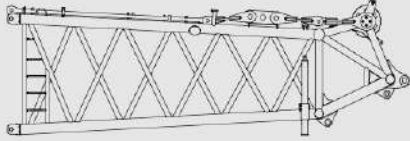
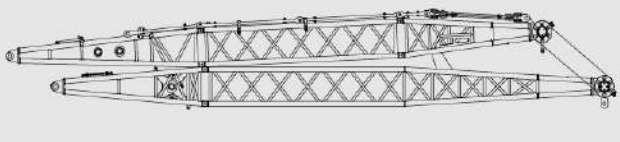
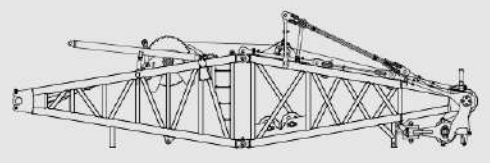


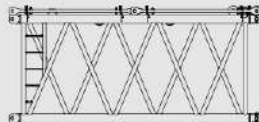
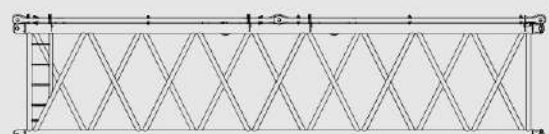
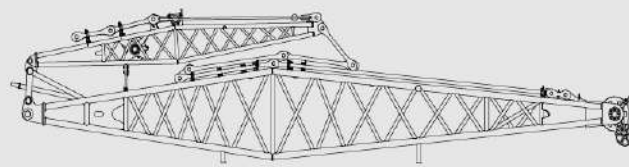
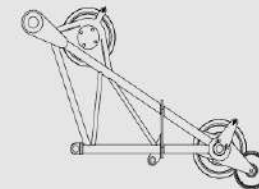
	主机 Basic machine ×1 长 L 12430mm 宽 W 3480mm 高 H 3445mm 重量 Weight 65000kg
	桅杆 Mast ×1 长 L 13165mm 宽 W 2250mm 高 H 1510mm 重量 Weight 15430kg
	起升卷扬 Hoist winch ×1 长 L 2580mm 宽 W 2080mm 高 H 1200mm 重量 Weight 12200kg
	700t吊钩(选配) Hook block(Optional) ×1 长 L 3210mm 宽 W 1685mm 高 H 2880mm 重量 Weight 13100kg
	500t吊钩 Hook block ×1 长 L 2510mm 宽 W 1685mm 高 H 2280mm 重量 Weight 7400kg
	200t吊钩 Hook block ×1 长 L 1520mm 宽 W 1420mm 高 H 210mm 重量 Weight 8337kg
	16t吊钩(选配) Hook block (Optional) ×1 长 L 1200mm 宽 W 700mm 高 H 700mm 重量 Weight 1500kg
	平衡重块 Ballast slab ×44 长 L 2180mm 宽 W 1950mm 高 H 455mm 重量 Weight 10000kg

主要零部件 Main Parts

	上车平衡重托盘 Superstructure ballast box ×2 长 L 2565mm 宽 W 2520mm 高 H 2140mm 重量 Weight 10000kg
	车身平衡重托盘 Car-body ballast box ×2 长 L 2335mm 宽 W 2440mm 高 H 930mm 重量 Weight 2500kg
	超起平衡重托盘 SL ballast tray ×1 长 L 7870mm 宽 W 2260mm 高 H 910mm 重量 Weight 10000kg
	履带梁 Crawler ×2 长 L 12400mm 宽 W 1670mm 高 H 1730mm 重量 Weight 45000kg
	主臂10.5米底节臂 10.5m boom butt ×1 长 L 10850mm 宽 W 3140mm 高 H 3280mm 重量 Weight 20900kg
	主臂6m厚壁中间节A+塔臂6m腰绳节 6m boom+6m tower jib ×2 长 L 6690mm 宽 W 3140mm 高 H 3020mm 重量 Weight 8380kg
	主臂12m厚壁中间节A+塔臂12m中间节B 12m boom+12m tower jib ×1 长 L 12690mm 宽 W 3140mm 高 H 3020mm 重量 Weight 14830kg
	主臂12m中间节B+塔臂12m中间节B 12m boom+12m tower jib ×1 长 L 12690mm 宽 W 3140mm 高 H 3020mm 重量 Weight 13930kg
	主臂12m中间节B+塔臂12m薄臂中间节 12m boom+12m tower jib ×1 长 L 12690mm 宽 W 3140mm 高 H 3020mm 重量 Weight 13580kg

主要零部件 Main Parts

	主臂12m中间节B+塔臂12m薄臂中间节C 12m boom+12m tower jib ×1 长 L 12690mm 宽 W 3140mm 高 H 3020mm 重量 Weight 13580kg
	主臂12m薄臂中间节C+塔臂12m薄臂中间节C 12m boom+12m tower jib ×1 长 L 12690mm 宽 W 3140mm 高 H 3020mm 重量 Weight 12880kg
	主臂12m腰绳节C+塔臂12m厚臂中间节A 12m boom+12m tower jib ×1 长 L 12790mm 宽 W 3140mm 高 H 3020mm 重量 Weight 13190kg
	主臂12m过渡节 Boom extension ×1 长 L 12220mm 宽 W 3070mm 高 H 3020mm 重量 Weight 7900kg
	主臂臂头 Boom head ×1 长 L 3340mm 宽 W 2750mm 高 H 2640mm 重量 Weight 4650kg
	塔臂4.5m底节臂 Tower butt ×1 长 L 4760mm 宽 W 2655mm 高 H 2570mm 重量 Weight 3400kg
	塔臂7.5m顶节臂 Tower top ×1 长 L 8520mm 宽 W 2600mm 高 H 2600mm 重量 Weight 6200kg
	塔臂前后支架一体 Tower jib front and rear strut ×1 长 L 18330mm 宽 W 3080mm 高 H 2630mm 重量 Weight 9900kg
	超起桅杆一体 SL mast base ×1 长 L 12450mm 宽 W 3270mm 高 H 3360mm 重量 Weight 12500kg

	超起6m中间节 SL mast 6m insert ×1 长 L 6200mm 宽 W 3320mm 高 H 2470mm 重量 Weight 3070kg
	超起12m中间节 SL mast 12m insert ×1 长 L 12200mm 宽 W 3320mm 高 H 2470mm 重量 Weight 5730kg
	风电副臂 Boom point for wind power ×1 长 L 12750mm 宽 W 2540mm 高 H 2830mm 重量 Weight 4500kg
	臂端单滑轮 Boom head single sheave ×1 长 L 3330mm 宽 W 1520mm 高 H 1220mm 重量 Weight 540kg

说明 Notes

- 以上零部件运输形状为示意图，所标尺寸为设计值，不包括包装。
The above parts dimension is only for illustration, the dimension shown is design value, and does not include the package.
- 重量为设计值，由于制造误差，可能稍有不同。
The weight is design value, may have slight difference due to error in manufacture.

上车

发动机

XGC650选用康明斯公司生产的直列6缸、水冷、增压中冷、电喷环保型发动机，额定功率447kW，额定转速1800rpm，符合欧洲工程机械III号排放标准。它具有结构紧凑、体积小、重量轻、功率大、油耗低、污染小、工作可靠、寿命长等显著特点，能满足履带起重机的恶劣工况。

控制系统

智能化计算机集成式可编程控制系统，是该产品的关键核心技术，采用PLC可编程控制器，并与常规电气相结合，完成系统的逻辑控制与电比例控制功能，实现起重机的智能控制；控制器、显示器、发动机和力矩限制器之间采用CAN BUS进行数据传送，大大提高起重机的作业安全性、可靠性和作业效率。大屏幕显示起重机作业参数及发动机相关参数，很方便的实现了人机对话。

液压系统

采用电比例控制，开闭式回路相结合，EP控制变量泵系统。
 液压系统组成：起升回路、变幅回路、回转回路、防后倾回路、行走回路以及辅助安装回路。
 特点：起升回路、变幅回路、行走回路采用开式泵控系统。主泵为EP控制变量泵，电比例EP阀控制变量，可以同时满足多个执行元件动作要求。回转系统采用闭式系统，响应迅速，控制精准，开启和制动时动作平稳，且换向时无冲击。可以满足频繁换向和微动操作要求。

起升机构

主起升机构有两个，型号相同，单独驱动，大起重量时两个卷扬同步工作。卷扬采用片式常闭制动器，内藏式减速机，变量马达驱动。两个主起升机构共用一个整体式支架，与转台采用销轴连接，便于组装。副起升机构和主起升相同，用于臂端单滑轮的起升。钢丝绳均为进口不旋转钢丝绳，避免了钢丝绳打绞。

变幅机构

主臂变幅为一个双联卷筒独立驱动，塔臂变幅和超起变幅均为单卷扬独立驱动。主、副变幅机构采用内藏式减速机，片式常闭制动器。卷筒设有棘轮装置，以实现机械锁止制动，安全可靠。驱动马达、平衡阀、钢丝绳均为进口。

回转机构

布置在转台内侧前面，由两个行星减速机组成，与回转支承外啮合，液压缓冲，具有自由滑转功能。行星减速机，可控常闭、片式制动器，工作可靠，维修方便。

回转支承

采用三排滚柱式回转支承，质量稳定可靠。

Crane Superstructure

Engine

XGC650 uses CUMMINS diesel engine, 6-cylinder in line, water-cooled, turbocharged, inter-cooled and electronic injection, rated output power 447kW, rated speed 1800rpm, emission in compliance with European Construction Machinery Stage II, it features compact structure, small size, light weight, strong power, low fuel consumption, little pollution, reliable work and long service life, can meet various working conditions for crawler cranes.

Control System

Intelligent computer intergrated programming control system is the key technology for this crane, adopts PLC programming controller, with combination of conventional electric system, complete systematic logic control and electronic proportional control, and realize the intelligent control of the crane; With CAN-Bus for data transfer among controller, display, engine and load moment limiter, greatly improving crane operation safety, reliability and working efficiency. Large screen display can show crane working data and related engine parameter, and convenient to realize man-machine interaction.

Hydraulic System

Electronic proportional control, with combination of close/open type circuit, EP controlled valve for variable displacement pump system.
 Hydraulic system: winch, luffing gear, slewing gear, tower jib backstop, travel gear, auxiliary assembly system.
 Features: winch, luffing gear, travel gear are of open type pump control system, main pump is EP controlled variable displacement pump, electronic proportional EP controlled valve for variable displacement, can meet the requirement of multiple actuator movement. Slewing gear is close type system, quick response, accurate control, stable starting and braking, and no impact for direction change, may satisfy operation of frequent direction change and fine motion control.

Winch

Two main winches of same model, with independent drive, and two winches synchronize for heavy load lifting; disc type constant closed brake, built-in speed reducer and variable displacement motor drive; two winches share one integrated bracket, and connected with turntable by pin shaft, easy for assembly. Auxiliary winch is the same as main winch, and used for boom head single sheave lifting. Winch wire rope is imported from Germany, no-twisting and no-turning.

Luffing Gear

Boom luffing gear is a twin drum independent drive unit, tower jib luffing gear and SL luffing gear is single winch independent drive unit. Main/auxiliary luffing gears use built-in speed reducer and disc type constant closed brake. The winch drum has a ratchet locking device to realize mechanical locking the boom, working safe and reliable. Drive motor, counterbalance valve, winch wire rope are all imported from Germany.

Slewing Gear

Slewing gear is arranged inside the front of turntable, made up by two planetary reducers, and internal meshed with slewing ring, hydraulic buffering, and with the function of free swing. Planetary reducer has a controllable constant- closed disc brake, reliable working and easy for maintenance.

Slewing Ring

Slewing ring is a 3-row roller type slewing bearing, with reliable quality.

详细介绍

Brief Introduction

平衡重系统

平衡重系统包括转台平衡重、超起平衡重、车身平衡重。
转台平衡重: 180t
平衡重箱2件 10t/件
平衡重块16件 10t/件
车身平衡重: 45t
平衡重箱2件 2.5t/件
平衡重块4件 10t/件
超起平衡重: 250t
超起平衡重托盘1件 10t/件
平衡重块24件 10t/件

操纵室

操纵室采用钢制框架结构,正面配置有整体式夹层玻璃,其余玻璃均为钢化玻璃。装有可调节座椅、按人机工程学布置的全套操纵仪表和控制装置,配置冷暖空调、音响、灭火装置、闭路监视系统等,宽敞舒适。工作时,操纵室可调整俯仰角度,扩大视野,方便操作;运输时,操纵室可从侧方转到前方,减小运输宽度。

转台

转台是联系上下车的关键承载结构件,采用高强度钢板焊接而成的双侧“工”字梁框架复合结构,整体稳定性好。转台通过回转支承与下车进行联接。驾驶室、起升机构、变频机构、发动机、桅杆、主臂及配重等分别与转台在不同部位进行联接。

下车

下车包括车架、履带架、行走机构和车身配重。车架和履带架采用销轴铰接式连接,销轴安装通过液压缸完成,履带架的拆装可利用本机的桅杆油缸吊装。车架底平面离地间隙为525mm。

车架

车架采用高强度钢板、箱形结构,中间设置隔板,加强其抗扭刚度,结构简单,承载能力强,刚性好。

履带架

包括履带梁和四轮一带。履带梁采用箱形结构,和车架连接部位局部加强,中间设置隔板。两个履带架对称设置,装有宽度为1.5m履带板。履带架可同步操作,也可单独操纵,以实现直行和转弯。

行走机构

履带行走驱动采用德国进口的内藏式行星齿轮减速机,液压释放行走制动器,每个减速机由两个德国进口的轴向柱塞变量马达驱动。

行走速度

变量泵及变量马达可以实现高、低速两档无级变速,最高速度0.8公里/小时。行走时,设备运行平稳,可实现快速行走。

Counterweight System

Ballast system consists of turntable ballast, SL ballast and car-body ballast.
Turntable Ballast: 180t
Ballast box 2 pcs. 10t/pcs.
Ballast 16 slabs 10t/slab
Car-body Ballast: 45t
Ballast box 2 pcs. 2.5t/pcs.
Ballast 4 slabs 10t/slab
SL Ballast: 250t
Ballast tray 1 pcs. 10t/pcs.
Ballast 24 slabs 10t/slab

Operator's Cabin

Operator's cabin is steel frame structure, front windshield has overall type safety glass, other glass is hardened glass, equipped with adjustable seat, all kinds of ergonomic designed instruments and controls, vent type air-conditioner, CD player, fire extinguisher, and closed circuit monitoring system, spacious and comfortable. When the crane is in operation, the operator's cabin can be tilted upward to widen the field of vision. When the crane is in transportation, the operator's cabin can be turned from the side to the front so as to reduce the transport width.

Turntable

Turntable is key structural part linked with crane superstructure and crane carrier for load bearing, made of high strength steel plate and welded as compound structure of both sides "工" shaped beam frame, with excellent stability. Turntable is connected with crane carrier by slewing ring, and many mechanisms arranged on it, such as operator's cabin, winch, luffing gear, engine, gantry, mast, boom and Ballast.

Crane Carrier

Crane carrier comprises car-body, crawler track, travel gear and superstructure Ballast. Car-body and crawler are articulated by pin shaft, the installation of pin shaft is realized by hydraulic cylinder, and the crane mast cylinder is used for crawler track assembly and disassembly. The ground clearance of car-body bottom plane is 525mm.

Car-body

Car-body is made of high strength steel, box-type structure, with cross panel installed in the middle to strengthen its stiffness of torsion resistance, simple structure, high loading capacity and well rigidity.

Crawler Track

Crawler track consists of track beam, drive sprocket, idler wheel, upper roller, lower roller and track pads. Crawler beam is box-type structure, the connection place to frame is strengthened partially, and cross panel is installed in the middle of it. Two crawler tracks are symmetrically arranged, with track pads of 1.5m, can be operated synchronously or independently to realize straight travel and turning around.

Travel Gear

Travel gear drive has German imported built-in planetary gear reducer and hydraulic release service brake, and one speed reducer is driven by two German imported axial piston variable displacement motors.

Travel Speed

Variable displacement pump and variable displacement motor can realize high/low two kinds of infinitely variable speed drive, max. speed 0.8 km/h.

详细介绍

Brief Introduction

作业装置

起重臂包括主臂、风电副臂和塔式副臂。结构型式为中间等截面,两端变截面的四弦杆空间桁架结构,主弦杆采用进口高强度管材,腹杆采用国产优质管材,提高了臂架抗弯曲的能力。

工况

标准工况重型主臂工况
标准工况轻型主臂工况
标准工况风电副臂工况 (选配)
标准工况塔式副臂工况
超起工况重型主臂工况
超起工况轻型主臂工况
超起工况塔式副臂工况
超起工况专用副臂工况
超起工况风电副臂工况 (选配)

重型主臂

重型主臂为中间等截面、两端变截面的空间桁架式结构,钢管焊接,臂架顶部与根部用钢板加强,以利于传递载荷。重型主臂配置臂端单滑轮机构,标准工况下,重型主臂长度为24~96m,超起工况下,重型主臂长度为36~108m。
组成:底节臂10.5m、6m主臂中间节×2、12m厚壁主臂中间节A×1、12m主臂中间节B×2、12m主臂中间节B-YS×1、12m薄厚壁主臂中间节C×1、12m薄厚壁主臂中间节C-YS×1、12m过渡节×1、1.5m臂头×1。

轻型主臂

轻型主臂由重型底节与塔臂顶节经过渡节连接而成。标准工况下,轻型主臂长度为66~108m,超起工况下,轻型主臂长度为90~138m。
组成:1个10.5m主臂底节,6m主臂中间节×2、12m厚壁主臂中间节A×1、12m主臂中间节B×2、12m主臂中间节B-YS×1、12m过渡节×1、6m塔式副臂厚壁中间节A-YS×2、12m塔式副臂厚壁中间节A×1、12m塔式副臂中间节B×2、7.5m塔式副臂顶节×1。

风电副臂 (选配)

标准风电副臂工况,主臂长度为78~102米时可安装风电副臂。
超起风电副臂工况,主臂长度为78~126米时可安装风电副臂。
含10°及15°两种安装角。
组成:风电副臂12米×1。

塔式副臂

塔式副臂为中间等截面、两端变截面的空间桁架式结构,钢管焊接,臂架顶部与根部用钢板加强,以利于传递载荷。
标准工况下,塔式副臂可在主臂长30~66m范围内进行作业,塔臂长度为24~84m。
超起工况下,塔式副臂可在主臂长36~84m范围内进行作业,塔臂长度为24~96m。
组成:4.5米塔式副臂底节×1,6米塔式副臂中间节A-YS×2,12米塔式副臂厚壁中间节A×1,12米塔式副臂厚壁中间节B×2,12米塔式副臂薄壁中间节C×3,7.5米塔式副臂顶节×1。

专用副臂 (选配)

专用副臂由4.5米塔式副臂底节×1和7.5米塔式副臂顶节×1组成。专用副臂长度为12m,安装角为14°,可在超起工况下主臂长度48~108m时进行作业。

Lifting Operation Parts

Lifting boom comprises main boom, tower jib and special jib, the structural type is lattice structure of four tubular chords with intermediate equal section and two end variable section; the main boom chord is made of imported high quality tube, and web rod is made of domestic high quality tube, with the ability for improving torsion resistance.

Working Conditions

Standard Mode Heavy Boom Working Conditions
Standard Mode Light Boom Working Conditions
Standard Mode Boom point for wind power (Optional)
Standard Mode Tower Jib Working Conditions
SL Mode Heavy Boom Working Conditions
SL Mode Light Boom Working Conditions
SL Mode Tower Jib Working Conditions
SL Mode Special Jib Working Conditions
SL Mode Boom point for wind power (Optional)

Heavy Boom

Heavy boom is lattice structure of intermediate equal section and two end variable section, welded by steel tube, boom top and boom foot reinforced by steel plate for load transfer. Heavy boom is equipped with boom head single sheave. For standard working condition, the heavy boom length is 24~96m. For SL working condition, the heavy boom length is 36~108m. Construction: 10.5m boom butt, 6m×2 boom insert, 12mA×1 boom insert, 12mB×2 boom insert, 12mB-YS×1 boom insert, 12mC×1 boom insert, 12mC-YS×1 boom insert, 12m×1 pendant section and boom head.

Light Boom

Light boom is the connection of heavy boom butt and tower jib top through boom extension. For standard working condition, the light boom length is 66~108m. For SL working condition, the light boom length is 90~138m. Construction: 10.5m boom butt, 6m×2 boom insert, 12mA×1 boom insert, 12mB×2 boom insert, 12mB-YS×1 boom insert, 12m×1 pendant section 12mA×1 tower jib insert, 6mA-YS×2 tower jib insert, 12mB×2 tower jib insert, and 7.5m boom top.

Point for wind power(Optional)

For standard/SL working condition, the point for wind power can be operated within the range of boom length 78 ~ 102m/78 ~ 126m.

Tower Jib

Tower jib is lattice structure of intermediate equal section and two end variable section, welded by steel tube, jib top and jib foot reinforced by steel plate for load transfer.
For standard working condition, the tower jib can be operated within the range of boom length 30~66m, and lifting operation length is 24~84m. For SL working condition, the tower jib can be operated within the range of boom length 36~84m and lifting operation length is 24~96m. Construction: 4.5m jib butt, 6mA-YS×2 jib insert, 12mA×1 jib insert, 12mB×2 jib insert, 12mC×3 jib insert, 7.5m jib top.

Special Jib(Optional)

Special jib is connection of 4.5m tower base and 7.5m tower top. Special jib length is 12m. For SL condition, it can be operated within the range of boom length 48 ~ 108m.

详细介绍 Brief Introduction

桅杆

桅杆结构为箱形双肢结构,该结构整体稳定性好。在自拆装时,可组成桅杆吊,用于拆装整机的大型结构件。

吊钩

可选配置: 700t吊钩
16t吊钩

标准配置: 500t吊钩
200t吊钩

注: 700t吊钩可以分解成350t吊钩;
500t吊钩可以分解成250t吊钩;
200t吊钩可以分解成100t吊钩。

安全装置

安全装置包括力矩限制器、转台回转锁销装置、起重臂防后倾装置、起升高度限位装置、接近开关、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、行走警告等。

应急功能

系统程序崩溃时,可采用控制柜中的翘板开关把整机操作到安全状态。此时所有安全保护功能不起作用。

力矩限制器

采用德国进口HIRSCHMANN力矩限制器,通过CAN总线与其他控制器组成总线网络,实现系统安全可靠的控制。力矩限制器能实时的检测起重机所负载荷及主起重臂、塔臂、超起桅杆所处角度、相关液压系统压力值,并能显示额定载荷、实际载荷、工作半径等相关参数。超起工况下显示各拉力传感器的利用率;同时如果检测到实际载荷超过额定载荷、起重臂超过极限角度等危险状态时,力矩限制器发出报警并限制当前动作。力矩限制器系统有大屏彩色显示器、主机、角度传感器、拉力传感器等组成。

主、副提升过卷装置

当主、副卷扬上升到一定高度时候,将通过显示器及蜂鸣器进行声光报警,同时力矩限制器自动停止起升动作。

主、副提升过放装置

此保护功能由安装在卷筒上的开关进行检测,当卷筒上的钢丝绳剩下三圈时候,将通过显示器及蜂鸣器进行声光报警,同时力矩限制器自动停止下降动作。

安全保护开关

该安全保护开关放在手柄右侧,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。防止上下车身体碰撞手柄产生误操作。

Mast

The mast is box-type structure of twin tubular chord, with good overall stability. When carrying out crane assembly/disassembly, the mast can be combined with other lifting parts for mounting and removing large crane structural parts.

Hook Block

Optional equipment: 700t capacity hook block, 16t capacity hook block.
Standard equipment: 500t capacity hook block, 200t capacity hook block.
Note: 700t capacity hook block may be divided into 350t capacity hook blocks.
500t capacity hook block may be divided into 250t capacity hook blocks.
200t capacity hook block may be divided into 100t capacity hook blocks.

Safety Devices

Safety devices comprise: load moment limiter, turntable lock pin, boom backstop, hoist limit switch, access switch, anemometer, level gauge, hydraulic overflow valve, counterbalance valve, two-way hydraulic lock, slewing warning lamp and travel warning lamp, etc.

Emergency Function

When a breakdown occurs in the system, a toggle switch on control panel may be used to control the whole machine into safe state, at this time all safe protections have no use.

Load Moment Indicator

The HIRSCHMANN load moment indicator (LMI) system has been designed to provide the crane operator with the essential information required to operate the machine within its design parameters. Using various sensing devices, the Load Moment Indicator monitors various crane function and provide the operator with a continuous reading of the crane's capacity. The readings continuously change as the crane moves through the motions needed to make the lift. The LMI provides the operator with information regarding the length and angle of the boom, tip height, working radius, rated load and the total calculated weight being lifted by the crane. If non permitted condition is approached, the Load Moment Indicator will warn the operator by sounding an audible alarm, lighting a warning light and locking out those functions that may aggravate the crane's condition.

Main/Auxiliary Winch Over-Wound Protection Device

When main/auxiliary winch hoists up to a certain lifting height, an over-wound warning lamp on instrument panel lights on, at the same time, load moment limiter stops crane hoisting up operation.

Main/Auxiliary Winch Over-Release Protection Device

When access switch in winch drum detects only three turns of wire rope left on the drum, an over-release warning lamp on instrument panel lights on, at the same time, load moment limiter stops crane hoisting down operation.

Safe Protection Switch

At the front of joystick installed a safe protection switch, when the switch is pressed down, all crane movement signals have been shielded, and the joystick is useless. This switch can be used to prevent malfunction when operator accessing the cabin and touching the joystick.

详细介绍 Brief Introduction

棘爪锁止装置

该功能用于锁定变幅卷扬,起重臂降落的时候必须打开该装置,否则不能降落,用于保护臂架在非工作时安全停放。当锁止时通过显示屏进行显示,以提示棘轮处于锁止状态。

起重臂角度限制

主起重臂仰角在85°时,起重臂被停止起升,由力矩限制器和行程开关双级控制。主起重臂在仰角小于30°时停止起重臂落,由力矩限制器控制。塔臂由限位开关控制上限位和下限位。

发动机功率极限载荷调节

控制器对发动机功率利用情况进行监控,防止发动机憋车或失速。

监控系统

由4个摄像头和2个监视器组成,分别监视卷扬系统和车辆后方状况。臂头摄像头为选配。

声光报警器

在履带起重机移动或做回转动作的时候闪烁并且发出声音报警。

三色力矩报警灯

由三种颜色组成,负载在90%以下时“绿灯”亮,表示起重机在安全区域运行,负载在90%-100%的时候“黄灯”亮,表示起重机在已接近额定载荷范围,负载在100%-105%以上时“红灯”和“黄灯”同时亮,表示起重机已经超载。在危险区域,控制系统自动切断起重机向危险的方向运行。

电子水平仪

装置在转台内部,通过显示器实时显示整车的水平度。

照明灯

装置在转台前方、臂架上和操纵室内,用于夜间工作提供照明。

示高灯

安装在臂架顶部,作为高空警示。

风速仪

实时检测当前风速,传送到操纵室的显示屏上,提醒司机操作的安全性。

Winch Ratchet Locking Device

Winch drum has a ratchet locking device, and it must be turned on when lowering boom, otherwise boom cannot be lowered. The device is used to stow the boom for safety.

Boom Angle Limit

When boom angle is more than 85°, both load moment limiter and hoist limit switch stop boom raising. When boom angle is less than 30°, load moment limiter stops boom lowering and give a sound warning. The hoist limit switch may control the tower jib upper/lower limit position.

Engine Limit Power Adjustment

The monitor system contains 4 cameras and 2 monitor display, respectively keeping watch on winch system and rear working condition, and boom tip camera is for option.

Monitor System

The monitor system contains 4 cameras and 2 monitor display, respectively keeping watch on winch system and rear working condition, and boom tip camera is for option.

Audio/Video Warning

When crawler crane is moving and slewing, there is light and sound for warning.

Tricolor Warning Lamp

The lamp comprises 3 colors, when crane loading is below 90% of total rated lifting load, "Green Lamp" lights on to indicate crane is running in safety area; when crane loading is in 90%~100% of total rated lifting load, "Yellow Lamp" lights on to indicate crane is close to total rated lifting load; when crane loading is above 100%~105% of total rated lifting load, "Red Lamp" and "Yellow Lamp" light on at the same time to indicate crane is overload; In dangerous area, control system can automatically cut off crane movement to dangerous direction.

Electronic Level Gauge

The level gauge is installed inside turntable for real-time display of overall level of the crane

Illumination Lamp

There are illumination lamps at front of turntable, on boom and inside operator's cabin for night operation.

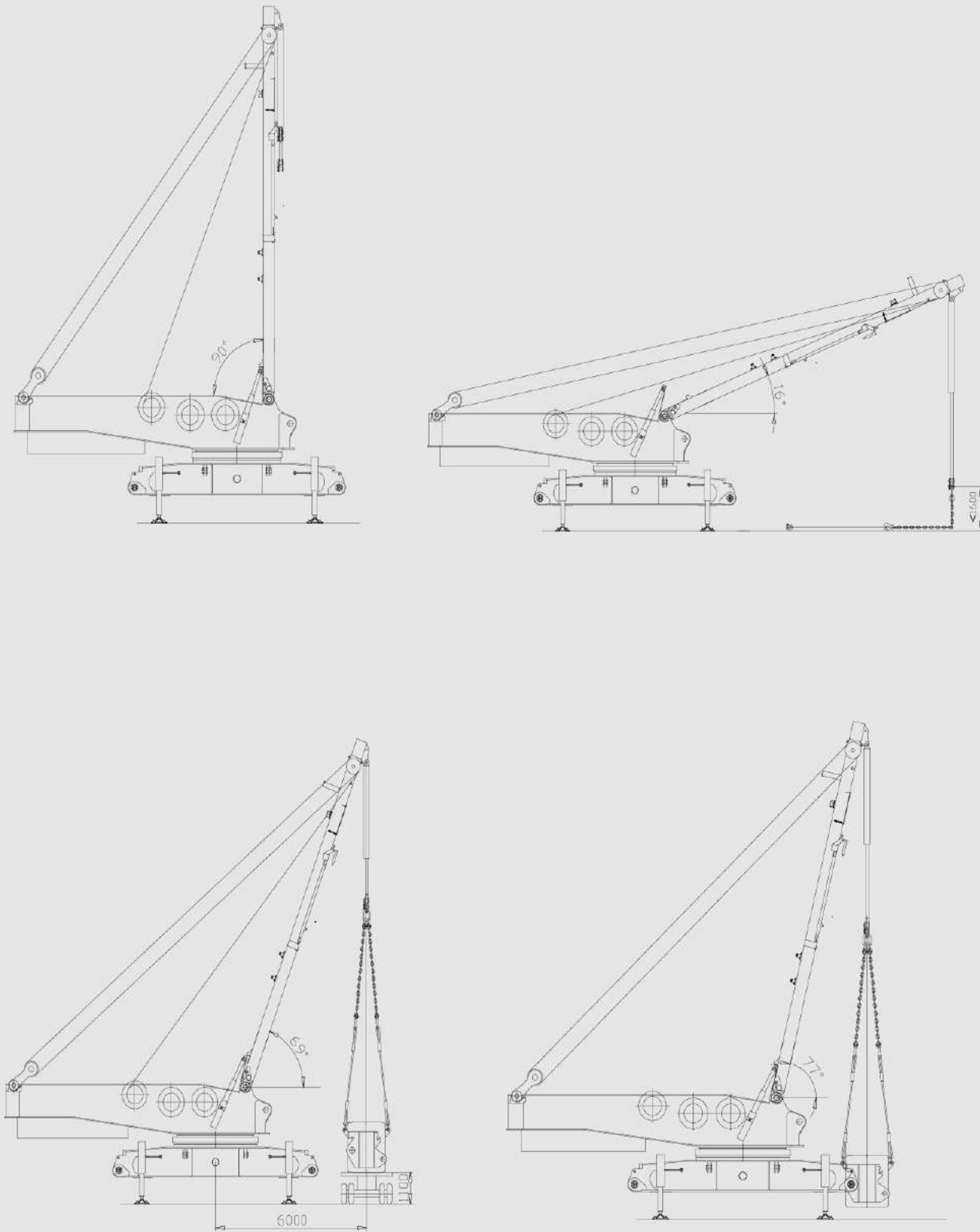
Height Mark Lamp

Boom tip has a height mark lamp for high level operation warning.

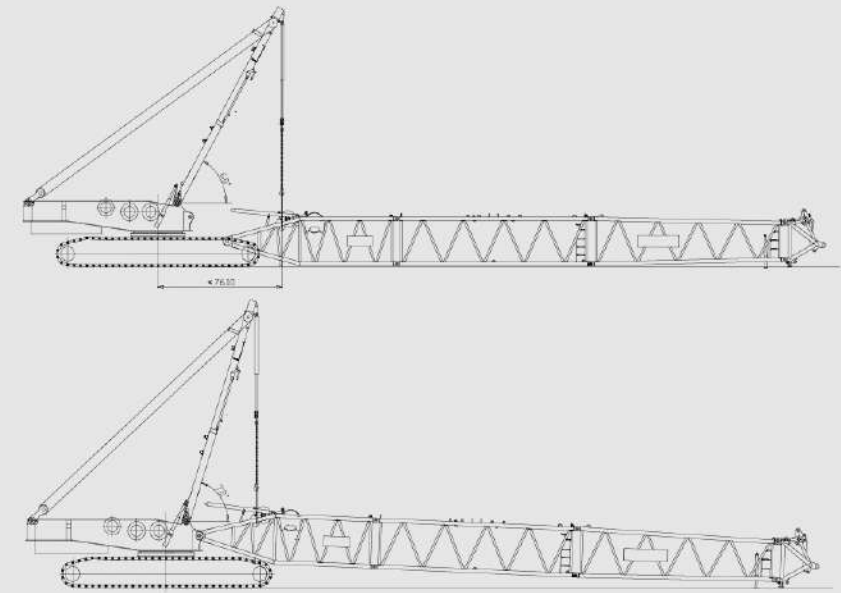
Anemometer

Anemometer at boom head can detect current wind speed and send wind signal to a monitor in operator's cabin to alert operator for safety.

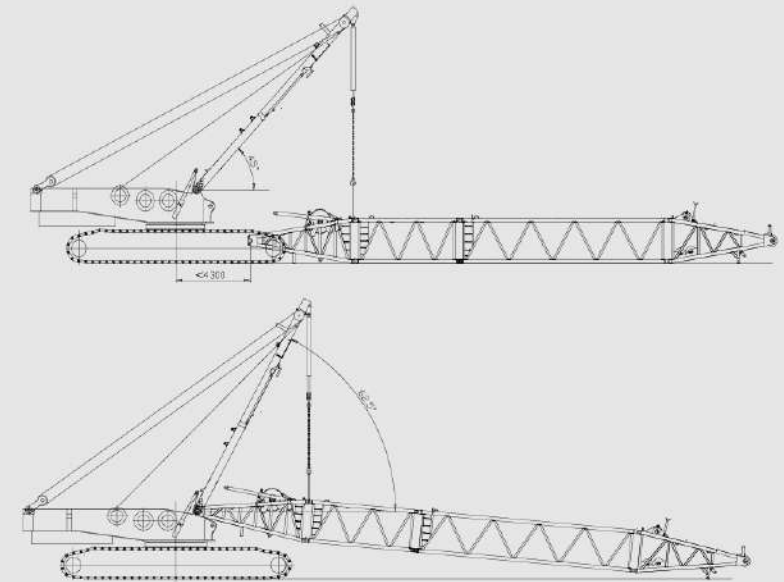
履带梁自拆示意图



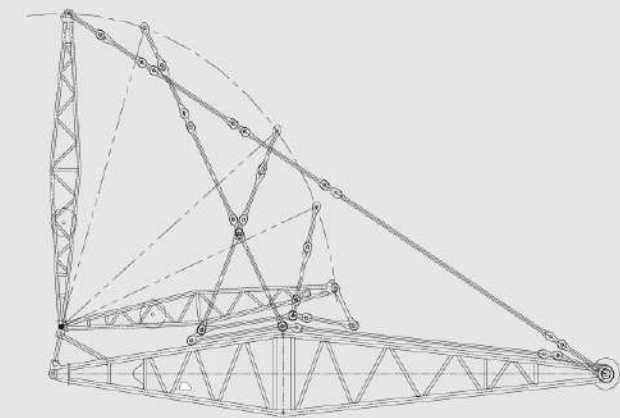
桅杆吊主臂示意图



桅杆吊起桅杆示意图



风电副臂一体化拆示意图

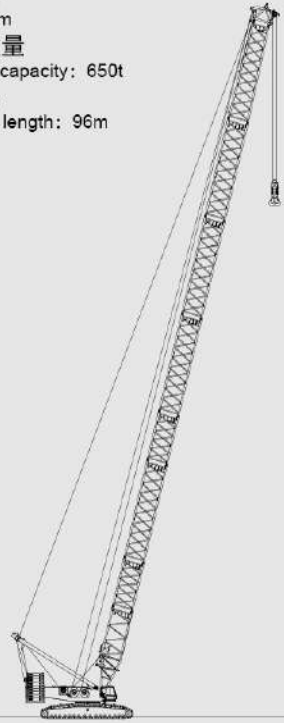


工况示意图
Working Mode Illustration

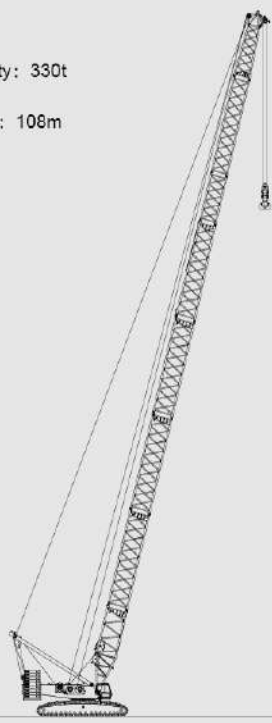
工况示意图
Working Mode Illustration

标准工况 Standard Mode

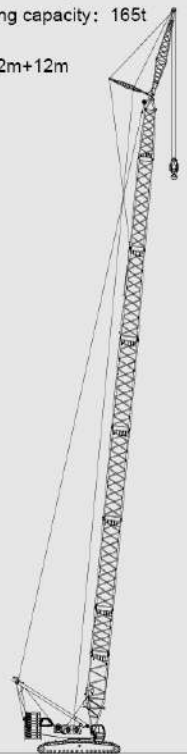
重型主臂
Heavy Boom
最大起重量
Max. lifting capacity: 650t
最大臂长
Max. boom length: 96m



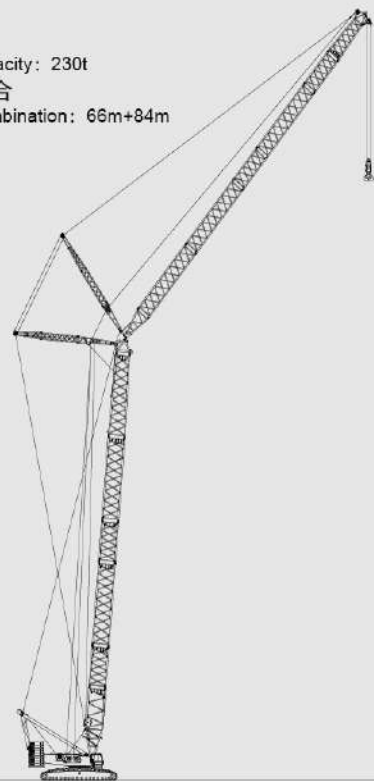
轻型主臂
Light Boom
最大起重量
Max. lifting capacity: 330t
最大臂长
Max. boom length: 108m



风电副臂 (选配)
Boom point for wind power (Optional)
最大起重量
Max. lifting capacity: 165t
最大臂长组合
Max. boom length: 102m+12m

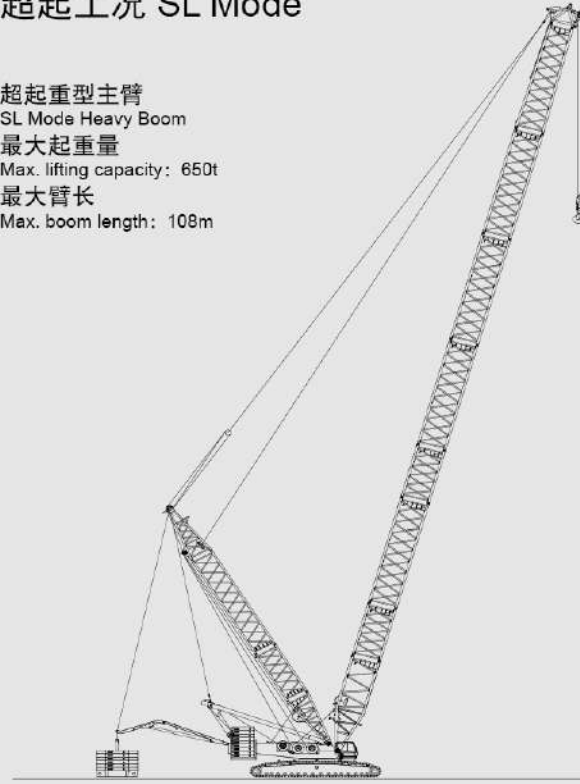


塔式副臂
Tower Jib
最大起重量
Max. lifting capacity: 230t
最大臂长组合
Max. boom combination: 66m+84m

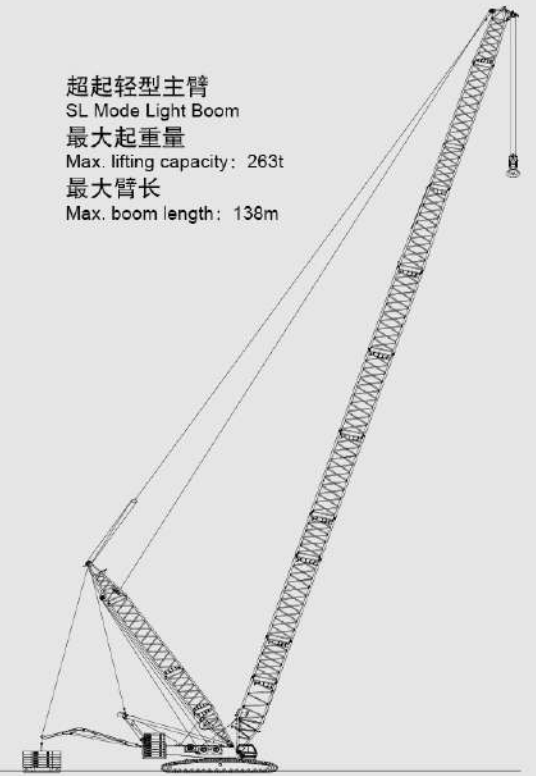


超起工况 SL Mode

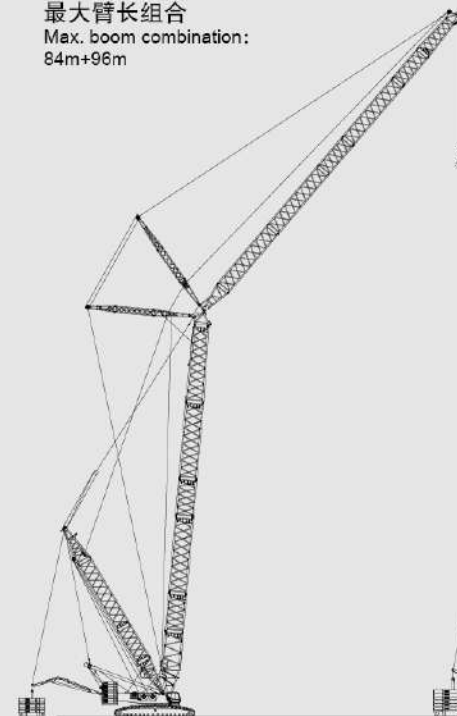
超起重型主臂
SL Mode Heavy Boom
最大起重量
Max. lifting capacity: 650t
最大臂长
Max. boom length: 108m



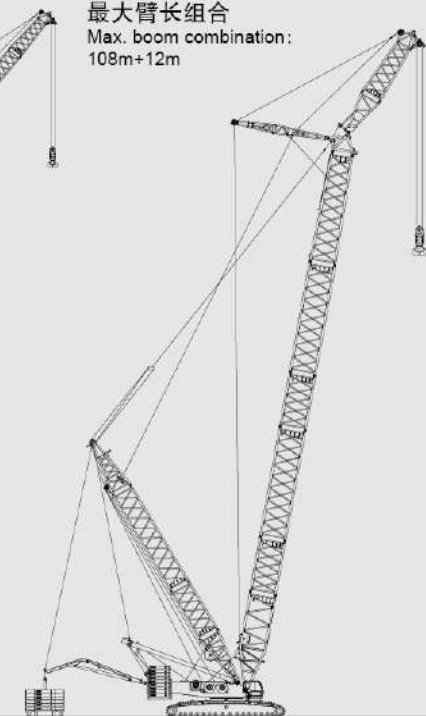
超起轻型主臂
SL Mode Light Boom
最大起重量
Max. lifting capacity: 263t
最大臂长
Max. boom length: 138m



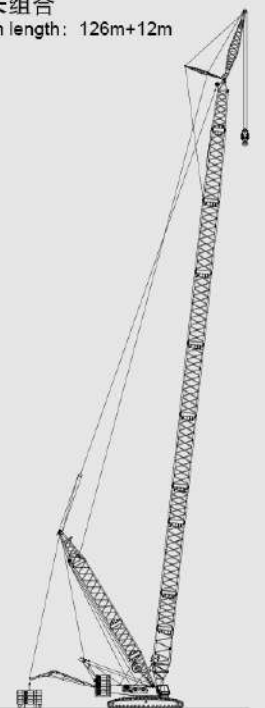
超起塔式副臂
SL Mode Tower Jib
最大起重量
Max. lifting capacity: 340t
最大臂长组合
Max. boom combination: 84m+96m



超起专用副臂
SL Mode Tower Jib
最大起重量
Max. lifting capacity: 340t
最大臂长组合
Max. boom combination: 108m+12m

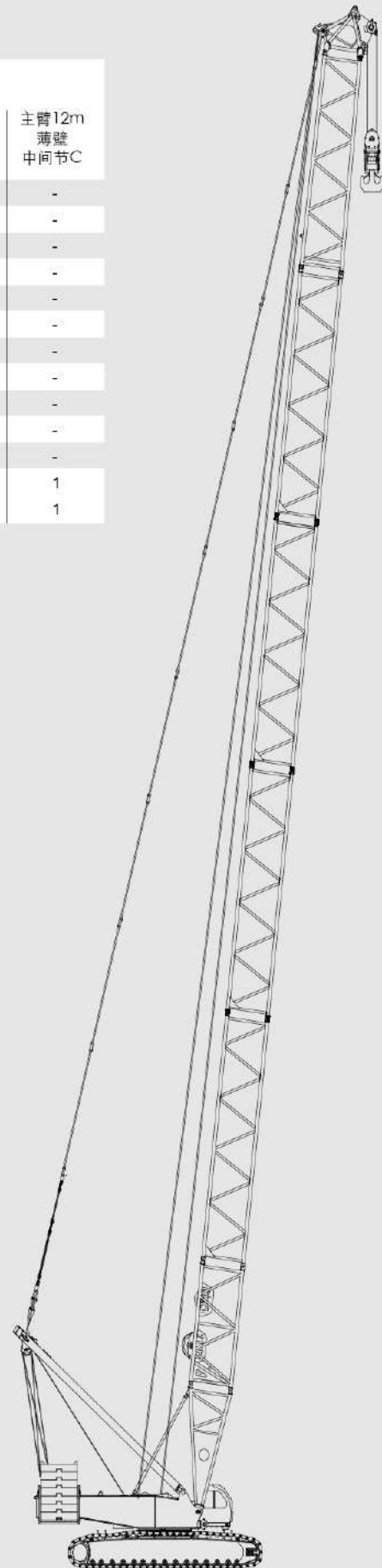


超起风电副臂 (选配)
Boom point for wind power (Optional)
最大起重量
Max. lifting capacity: 170t
最大臂长组合
Max. boom length: 126m+12m

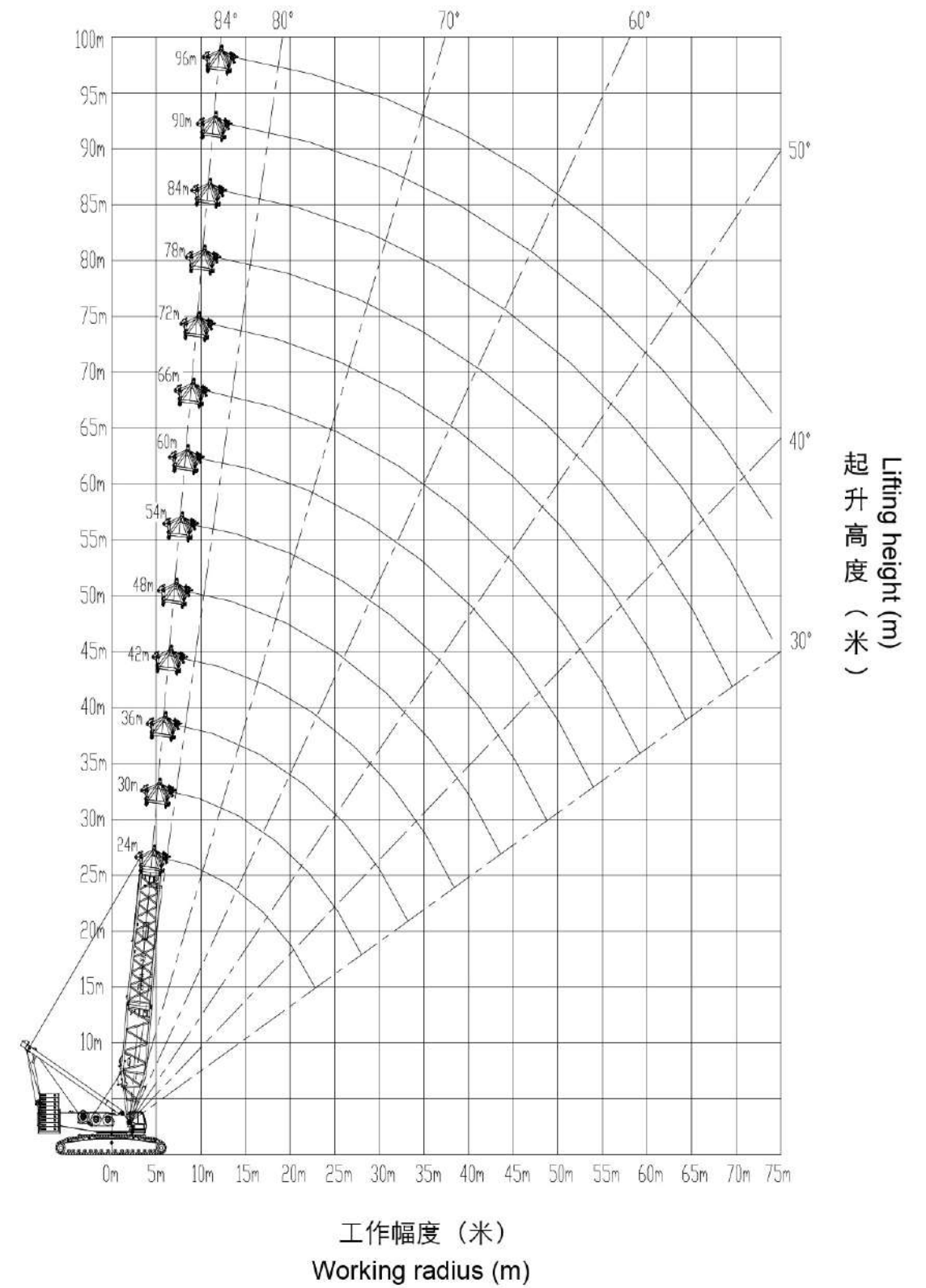


标准工况重型主臂臂节组合/重型主臂 Standard Mode Heavy Boom Combinations/Heavy Boom

臂长 Boom length (m)	中间臂节 Boom insert				
	主臂6m 厚壁 中间节A	主臂12m 厚壁 中间节A	主臂12m 中间节B	主臂12m 膝绳节B	主臂12m 薄壁 中间节C
24	-	-	-	-	-
30	1	-	-	-	-
36	-	1	-	-	-
42	1	1	-	-	-
48	2	1	-	-	-
54	1	1	1	-	-
60	2	1	1	-	-
66	1	1	2	-	-
72	2	1	2	-	-
78	1	1	2	1	-
84	2	1	2	1	-
90	1	1	2	1	1
96	2	1	2	1	1



标准工况重型主臂作业范围 Standard Mode Heavy Boom Working Area



标准工况重型主臂载荷表 Standard Mode Heavy Boom Lifting Load Chart

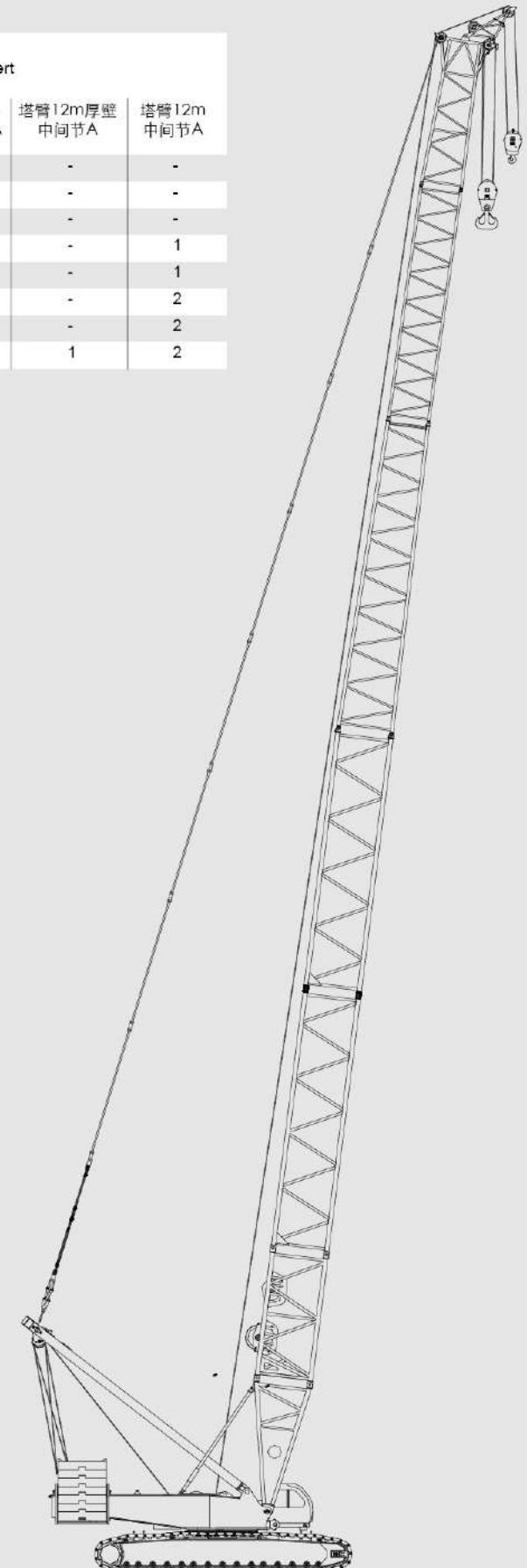
标准工况轻型主臂臂节组合/轻型主臂 Standard Mode Light Boom Combinations/Light Boom

200t转台平衡重+65t车身平衡重
200t turntable ballast+65t car-body ballast

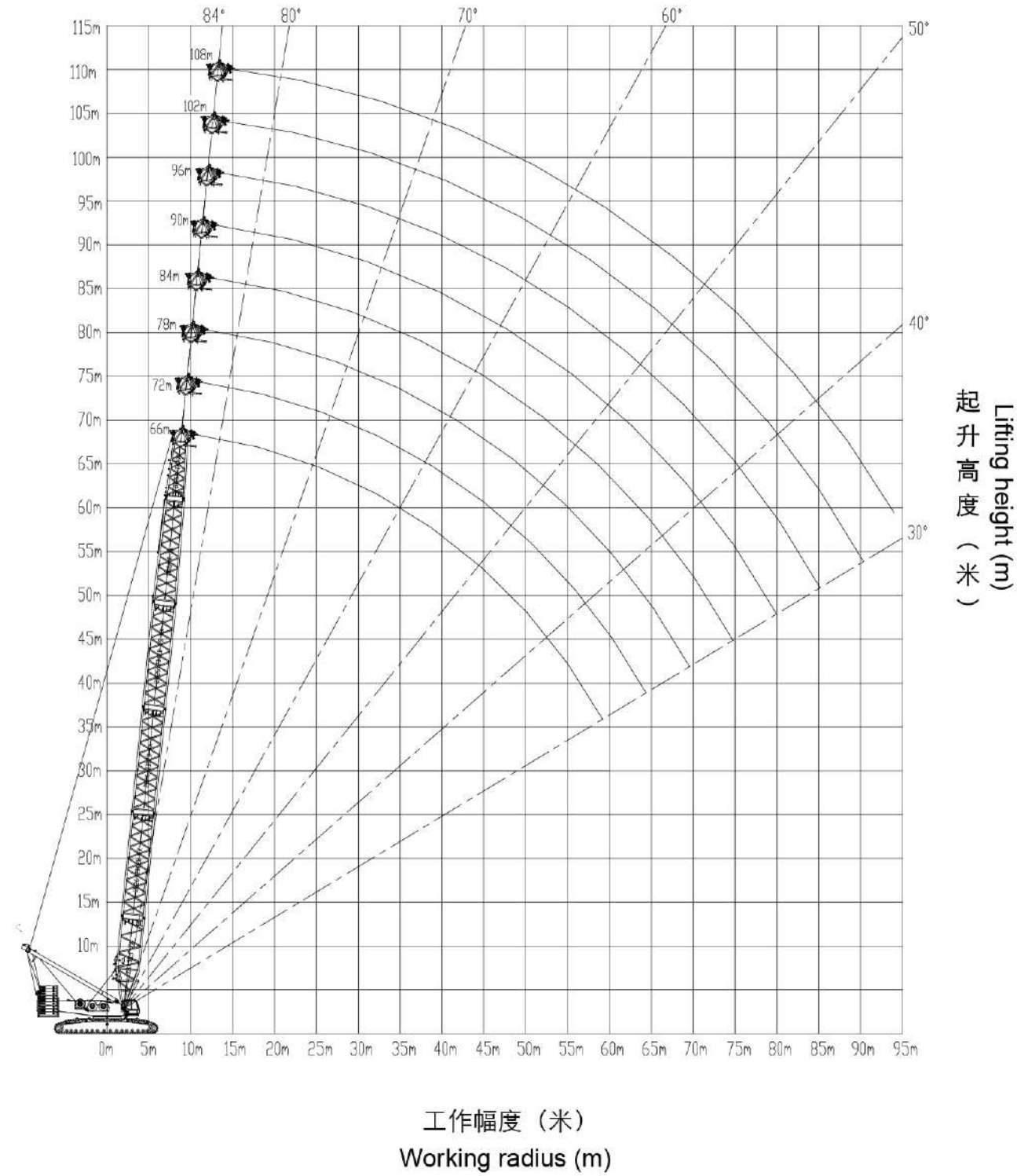
幅度Radius (m)	臂长 Boom length (m)													
	24	30	36	42	48	54	60	66	72	78	84	90*	96*	
6	650											(选配)	(选配)	
7	607	608	604											
8	535	533	532	530	529									
9	477	476	475	473	471	469	425							
10	429	424	422	413	409	400	390	381	370					
12	338	325	323	312	309	308	301	295	289	283	267	222	197	
14	258	252	247	245	239	238	237	236	235	231	228	215	191	
16	213	208	201	197	193	191	190	189	187	186	185	176	167	
18	181	174	168	164	161	160	159	158	156	155	155	147	140	
20	155	147	144	141	140	139	138	138	138	137	137	130	124	
22	133	130	128	125	120	118	117	117	116	116	116	110	104	
24		121	118	112	106	106	105	105	105	105	104	99	94	
26		108	108	107	105	104	103	103	101	95	93	88	84	
28		97	97	96	94	94	93	93	92	89	83	79	75	
30			87	86	85	85	83	84	83	79	72	69	65	
34				71	70	70	68	69	68	67	60	57	54	
38				60	59	58	57	58	56	55	48	45	43	
42					50	49	48	49	47	46	37	36	34	
46						42	41	41	40	37	30	28	27	
50							35	35	34	29	21	20	19	
54							29	30	29	24	17	16	15	
58								26	24	20	15	14	14	
62									20	17	14	13	13	
66										15	13	12	12	
70										13	12	11	10	
74											9	9	7	
吊钩	700t						500t						250t	
钩重(t)	13						7.4						5.5	
倍率	2*23	2*21	2*21	2*18	2*18	2*16	2*14	2*13	2*12	2*10	2*9	2*7	2*7	
风速(m/s)	14.3				12.8				11.1					

注：臂长带*表示需辅助起臂；
使用单滑轮时，主钩起重能力=额定载荷-单滑轮重量-小钩重量-小钩起升重量；
起升钢丝绳单位重量=3.85kg/m；
臂架带选配字样的需要选配臂架拉板；
表中的额定载荷值包括吊钩、钢丝绳和其他吊具的重量，额定载荷值减去上述项目重量之和才是起重的重量。

臂长 Boom length (m)	中间臂节 Boom insert					
	主臂12m 中间节B	主臂12m 腰绳节B	主臂12m 过渡节	主臂6m 腰绳节A	塔臂12m厚壁 中间节A	塔臂12m 中间节A
66	2	1	1	-	-	-
72	2	1	1	1	-	-
78	2	1	1	2	-	-
84	2	1	1	1	-	1
90	2	1	1	2	-	1
96	2	1	1	1	-	2
102	2	1	1	2	-	2
108	2	1	1	1	1	2



标准工况轻型主臂作业范围 Standard Mode Light Boom Working Area



标准工况轻型主臂起重性能表 Standard Mode Light Boom Lifting Load Chart

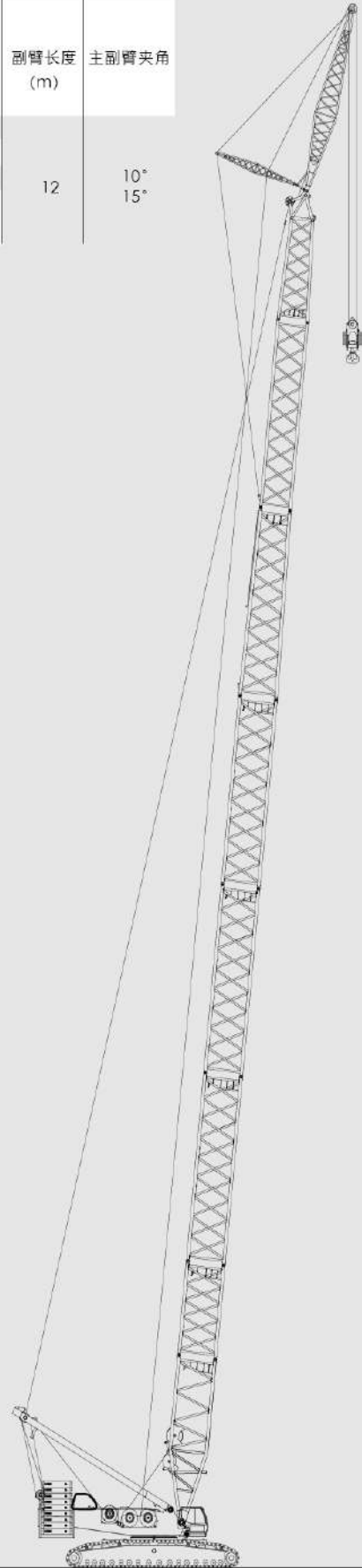
200t转台平衡重+65t车身平衡重
200t turntable ballast+65t car-body ballast

幅度Radius (m)	臂长 Boom length (m)							
	66	72	78	84	90	96	102	108
10	330	330						
12	292	286	289	231	192	164		
14	237	233	229	225	188	160	137	118
16	199	196	192	189	183	156	133	114
18	170	168	165	163	160	152	130	111
20	148	146	144	142	139	138	126	108
22	130	128	127	125	123	121	115	99
24	115	114	113	111	109	108	102	88
26	103	102	101	99	98	97	93	80
28	93	92	91	89	88	87	82	71
30	83	83	82	81	80	77	73	63
34	70	69	68	68	68	65	62	54
38	58	57	57	56	55	54	52	45
42	49	48	48	47	44	43	43	37
46	42	42	39	37	37	36	35	30
50	35	34	33	31	31	29	28	24
54	30	30	28	27	25	24	23	20
58	25	25	24	21	21	20	19	16
62		21	20	18	17	16	15	13
66			16	15	14	13	12	10
70			14	12	11	10	9	8
74				10	9	7	7	6
78					7	6	6	6
82						6	6	5
86							5	4
90							4	3
94								3
吊钩		500t		250t			200t	
钩重(t)		7.4		4.9			5.5	
倍率	2*11	2*11	2*9	2*8	2*7	2*6	2*5	2*4
风速(m/s)		11.1			9.8			

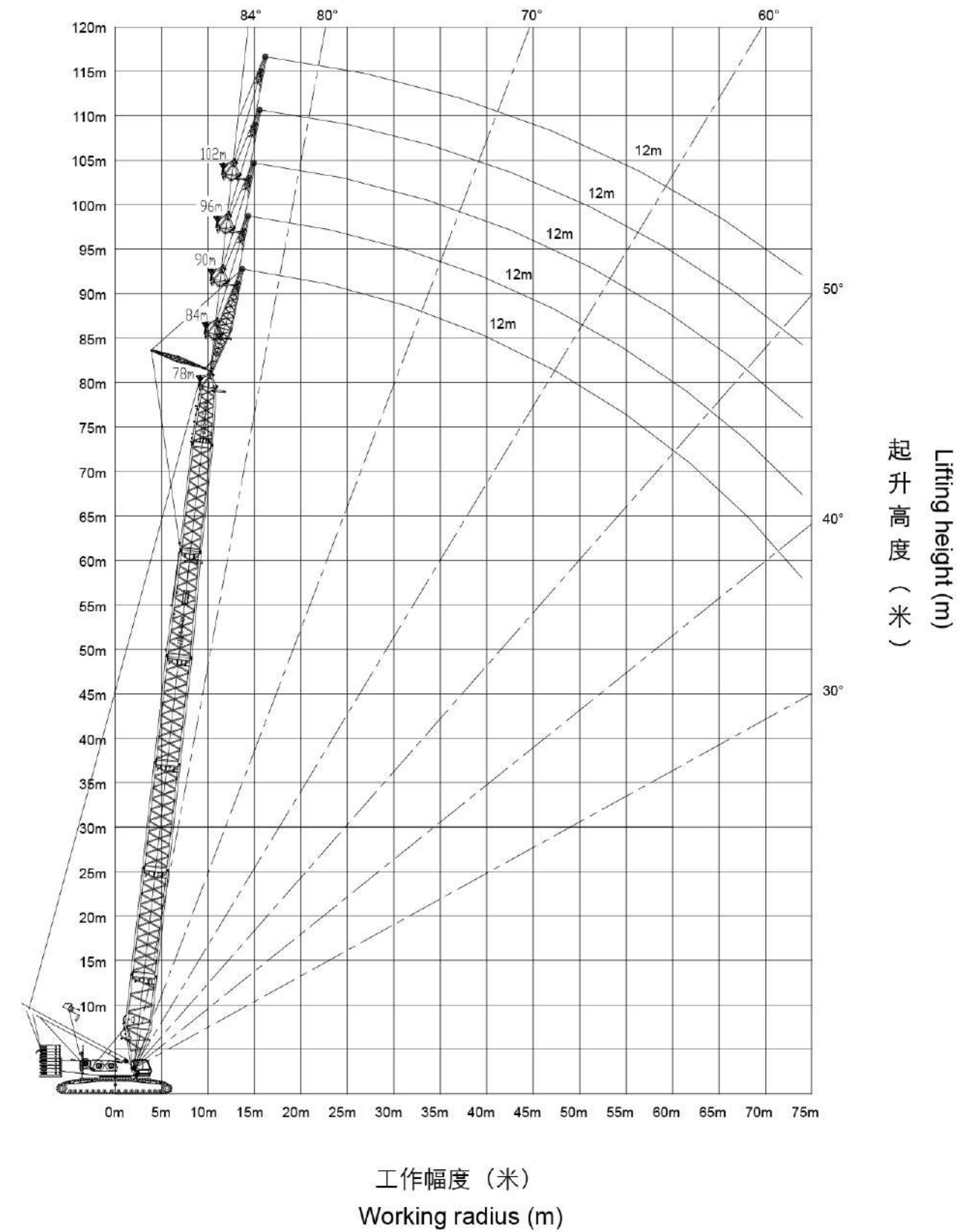
注：臂长带*表示需辅助起臂；
使用单滑轮时，主钩起重能力=额定载荷-单滑轮重量-小钩重量-小钩起升重量；
起升钢丝绳单位重量=3.85kg/m；
表中的额定载荷值包括吊钩、钢丝绳和其他吊具的重量，额定载荷值减去上述项目重量之和才是起重的重量。

标准工况风电副臂臂节组合/风电副臂 Standard Wind Power Jib Combinations/Tower Jib

臂长 Boom length (m)	中间臂节 Tower jib insert						副臂长度 (m)	主副臂夹角
	主臂6m 厚壁 中间节A	主臂12m 厚壁 中间节A	主臂12m 中间节B	主臂12m 腰绳节C	主臂12m 过渡节	塔臂12m 厚壁 中间节A		
78	-	1	2	-	1	1	12	10° 15°
84	1	1	2	-	1	1		
90	-	1	2	1	1	1		
96	1	1	2	1	1	1		
102	2	1	2	1	1	1		



标准工况风电副臂作业范围 Standard Wind Power Jib Working Area



标准工况风电副臂起重性能表 Standard Mode Wind Power Jib Lifting Chart

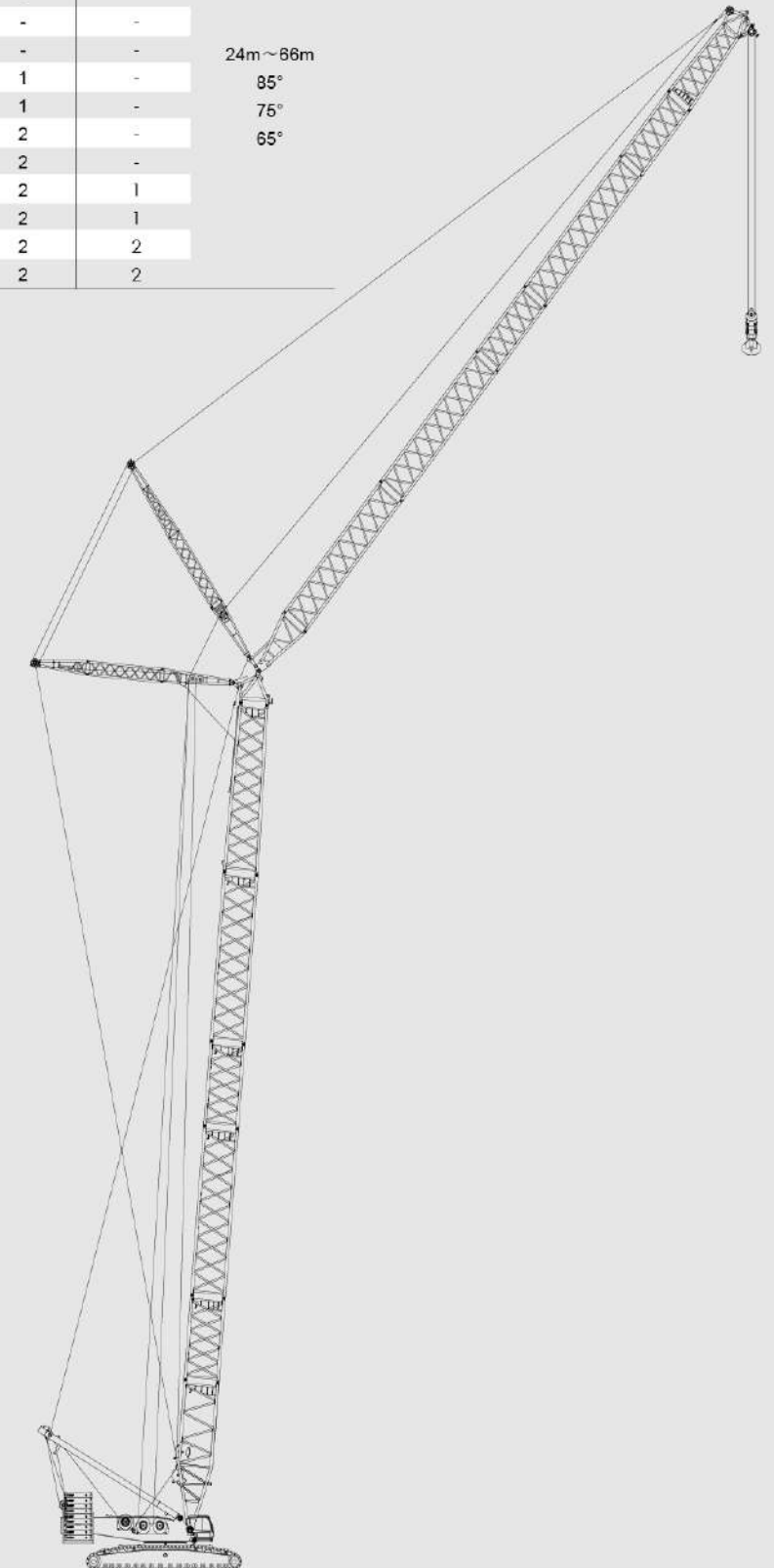
标准工况塔式副臂臂节组合/塔式主臂 Standard Mode Tower Jib Combinations/Tower Jib

200t转台平衡重+65t车身平衡重
200t turntable ballast+65t car-body ballast

幅度Radius (m)	臂长 Boom length (m)				
	78	84	90	96(选配)	102*(选配)
14	168				
16	165	165	149	142	
18	163	163	147	140	130
20	145	143	140	133	126
22	129	126	124	123	118
24	115	113	111	108	106
26	103	101	99	97	95
28	93	91	90	88	86
30	85	83	81	79	77
34	71	69	68	66	64
38	60	58	57	55	54
42	51	49	48	47	45
46	43	42	41	39	38
50	37	36	35	33	31
54	32	31	29	28	26
58	28	26	25	24	21
62	24	22	21	20	16
66	21	19	18	17	13
70	18	14	12	11	9
74	13	11	9	8	6
吊钩	200t				
钩重(t)	5.4				
倍率	2*6		2*5		
风速(m/s)	9.8				

注：臂长带*表示需辅助起臂；
起升钢丝绳单位重量=3.85kg/m；
风电副臂工况为选配工况；
臂架带选配字样的需选配臂架拉板；
表中的额定载荷值包括吊钩、钢丝绳和其他吊具的重量，额定载荷值减去上述项目重量之和才是起重的重量。

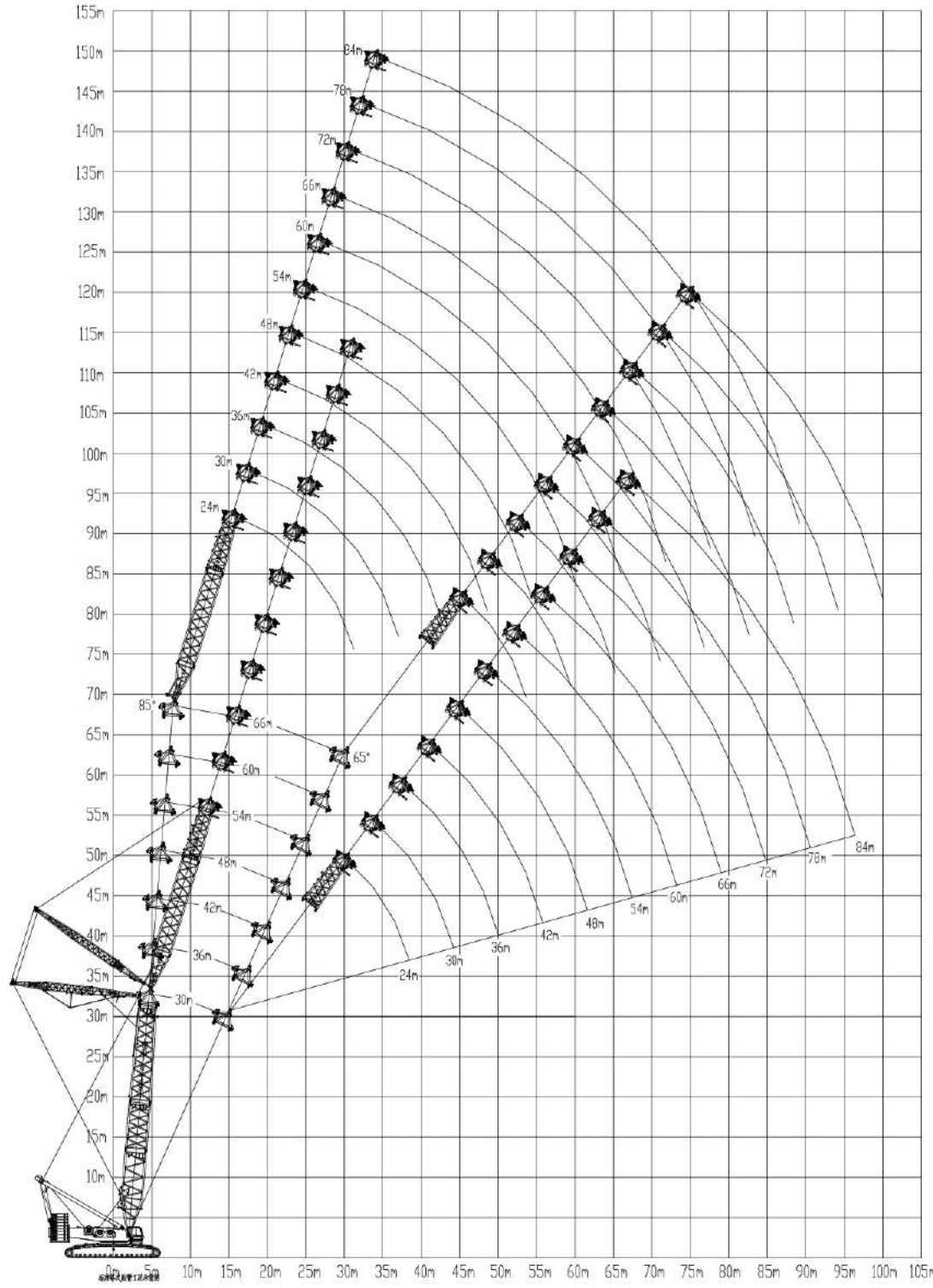
臂长 Boom length (m)	中间臂节 Tower jib insert				主臂长度和角度
	塔臂12m 厚壁 中间节A	塔臂6m 膜绳节A	塔臂12m 中间节B	塔臂12m 薄壁 中间节A	
24	1	-	-	-	24m~86m 85° 75° 65°
30	1	1	-	-	
36	1	2	-	-	
42	1	1	1	-	
48	1	2	1	-	
54	1	1	2	-	
60	1	2	2	-	
66	1	1	2	1	
72	1	2	2	1	
78	1	1	2	2	
84	1	2	2	2	



标准工况塔式副臂作业范围 Standard Mode Tower Jib Working Area

标准工况塔式副臂起重性能表 SL Mode Tower Jib Lifting Load Chart

200t转台平衡重+65t车身平衡重
200t turntable ballast+65t car-body ballast



工作幅度 (米)
Working radius (m)

起升高度 (米)
Lifting height (m)

主臂长度 Boom length (m)	主臂30米 Boom lengthA 30m																			
	塔臂长度																			
	24		30		36		42		48		54									
幅度 Radius (m)	主臂角度 Boom Angle																			
	85°	75°	65°	85°	75°	65°	85°	75°	65°	85°	75°	65°	85°	75°	65°	85°	75°	65°		
14	230																			
16	220			216																
18	190			186			183													
20	166			164			161			159										
22	146			145			143			141			139							
24	130	115		129			127			126			125			123				
26	117	103		116	102		114			113			112			110				
28	106	94		105	93		104			102			101			100				
30		86		96	85		95	83		93			92			91				
34			68	80	72		80	70		79	69		77	68		77				
38			59		62	57	69	61		68	59		66	58		65	57			
42						50		53	49	59	52		58	51		57	49			
46									43		46	41	51	44	40	50	43			
50									38		40	37	45	39	36	44	38	34		
54											33		35	32	39	34	30			
58														28		30	26			
62																27	23			
66																	21			
吊钩 钩重(t)	250t								200t											
倍率	2*8				2*7				2*6				2*5				2*4			
风速(m/s)	9.0																			

主臂长度 Boom length (m)	主臂30米 Boom lengthA 30m															
	塔臂长度															
	60		66		72		78		84							
幅度 Radius (m)	主臂角度 Boom Angle															
	85°	75°	65°	85°	75°	65°	85°	75°	65°	85°	75°	65°				
26	109															
28	98			97												
30	89			88			87									
34	75			75			73			72		68				
38	64			64			62			61		60				
42	56	48		55			54			53		52				
46	49	42		48	41		46	39		46		45				
50	43	37		42	36		41	34		41	34	39				
54	38	32	28	37	31		36	30		36	29	34	28			
58	34	29	25	33	28	24	32	26		32	25	30	24			
62	30	24	22	30	24	21	28	23	19	28	22	26	21			
66		22	19	26	22	18	25	20	16	24	19	15	23	18		
70			16		18	16	22	17	14	22	17	13	21	15	12	
74					16	14	19	15	12	19	15	11	18	13	10	
78						12		13	10	18	12	9	16	11	8	
82									8		11	8	13	9	7	
86												6		8	5	
90													5		7	4
94																4
吊钩 钩重(t)	200t					100t										
倍率	2*4					1*6					1*5					
风速(m/s)	9.0															

注：臂长带*表示需辅助起臂。

标准工况塔式副臂起重性能表 SL Mode Tower Jib Lifting Load Chart

超起工况重型主臂臂节组合/重型主臂 SL Mode Heavy Boom Combinations/Heavy Boom

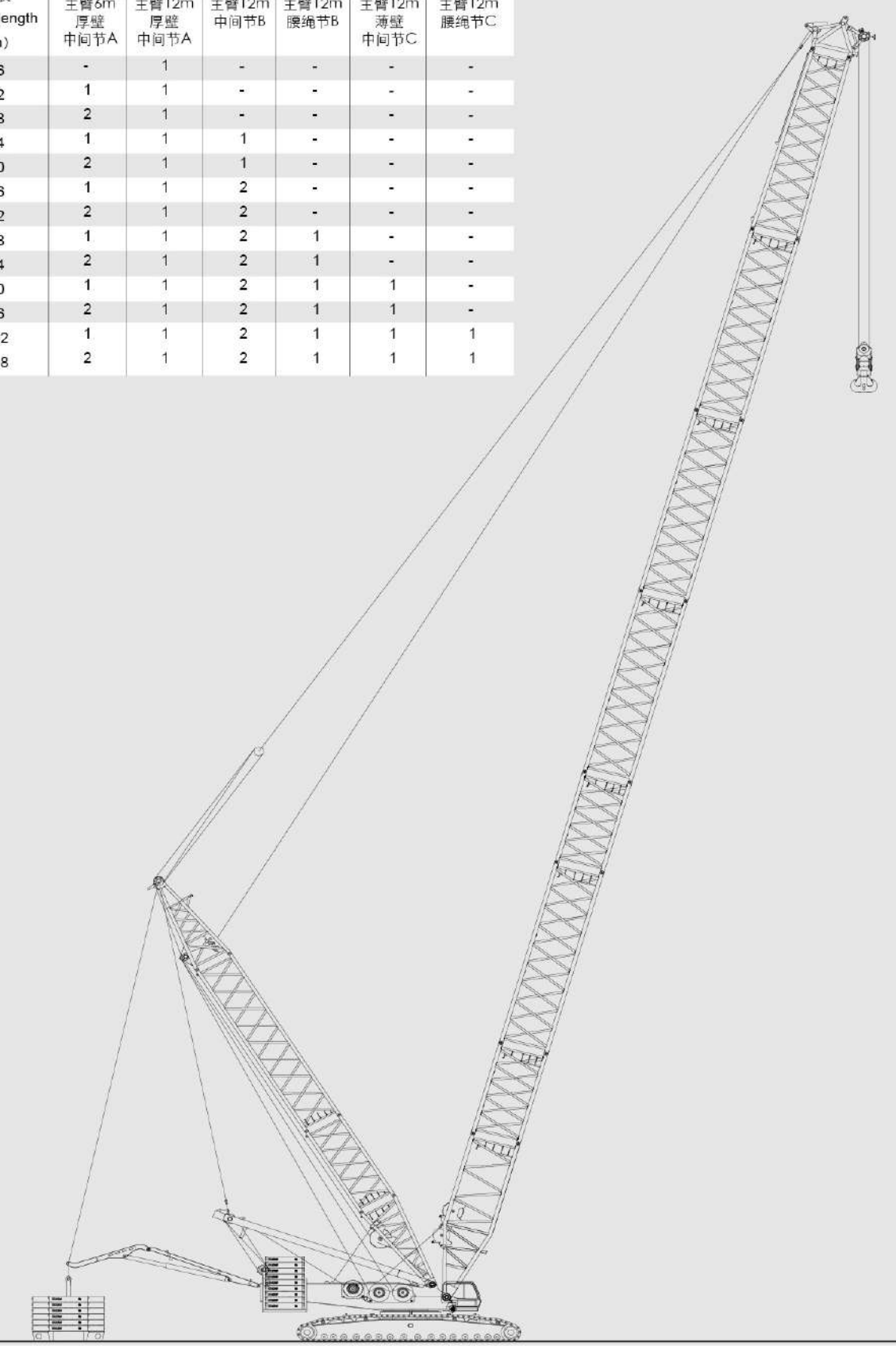
200t转台平衡重+65t车身平衡重
200t turntable ballast+65t car-body ballast

主臂长度 Boom length (m)	主臂66米 Boom lengthA 66m 塔臂长度																	
	24		30		36		42		48		54							
	主臂角度 Boom Angle																	
幅度 Radius (m)	85°	75°	65°	85°	75°	65°	85°	75°	65°	85°	75°	65°	85°	75°	65°	85°	75°	65°
18	171																	
20	152			149														
22	136			134			131											
24	122			121			119			116								
26	110			110			108			106			102			90		
28	100			99			98			96			95			89		
30	91			90			89			88			87			85		
34		58		76			75			74			73			71		
38		50			48		65			63			62			61		
42		43			41		57	46		55	38		54			53		
46					36			40		48	33		47	31		46		
50			22			21		34			28		42	27		40	25	
54						20		30	15		25		37	24		36	21	
58						17		26	13		22	11		20		32	18	
62									11			9		18	8		18	
66												8		16	6		14	7
70												7			6		12	6
74															5			5
78																		4
82																		4
吊钩																		100t
钩重(t)																		3.5
倍率		2*6			2*6			2*5			2*4			2*4				1*6
风速(m/s)										9.0								

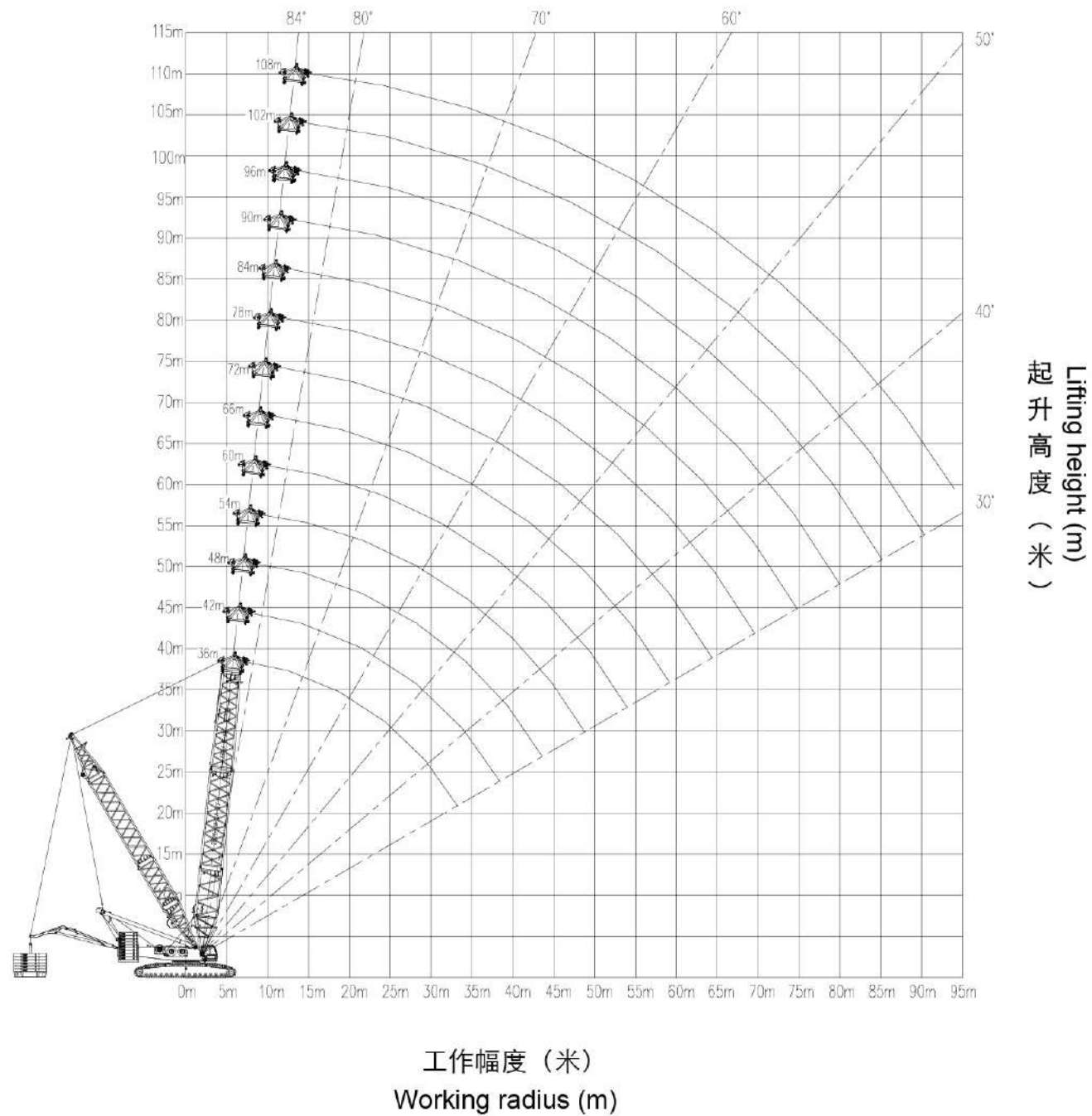
主臂长度 Boom length (m)	主臂66米 Boom lengthA 66m 塔臂长度												
	60		66		72		78		84				
	主臂角度 Boom Angle												
幅度 Radius (m)	85°	75°	65°	85°	75°	65°	85°	75°	65°	85°	75°	65°	
28	80												
30	77			70									
34	70			65			58			53			
38	60			59			54			49		44	
42	52			51			49			45		41	
46	45			44			42			41		37	
50	39	24		39			37			36		34	
54	35	20		34	19		32			32		30	
58	31	17		30	16		28	14		27	13	26	
62	27	15		26	13		24	11		24	11	22	9
66	22	12		23	11		21	9		21	9	19	7
70		11	6	21	9		19	7		18	7	17	5
74		9	5		8	5	16	6		16	5	14	5
78			4		6	4		5	3	14	5	12	5
82			3		5	3		5	2	12	4	10	4
86			3			2		4	1		4	9	3
90						2					4		3
94						1					3		
吊钩													100t
钩重(t)													3.5
倍率		1*6			1*5			1*4			1*4		1*3
风速(m/s)													9.0

注：臂长带*表示需辅助起臂。

臂长 Boom length (m)	中间臂节 Boom insert					
	主臂6m 厚壁 中间节A	主臂12m 厚壁 中间节A	主臂12m 中间节B	主臂12m 腰绳节B	主臂12m 薄壁 中间节C	主臂12m 腰绳节C
36	-	1	-	-	-	-
42	1	1	-	-	-	-
48	2	1	-	-	-	-
54	1	1	1	-	-	-
60	2	1	1	-	-	-
66	1	1	2	-	-	-
72	2	1	2	-	-	-
78	1	1	2	1	-	-
84	2	1	2	1	-	-
90	1	1	2	1	1	-
96	2	1	2	1	1	-
102	1	1	2	1	1	1
108	2	1	2	1	1	1



超起工况重型主臂作业范围图 SL Mode Heavy Boom Working Area



超起工况重型主臂起重性能表 SL Mode Heavy Boom Lifting Load Chart

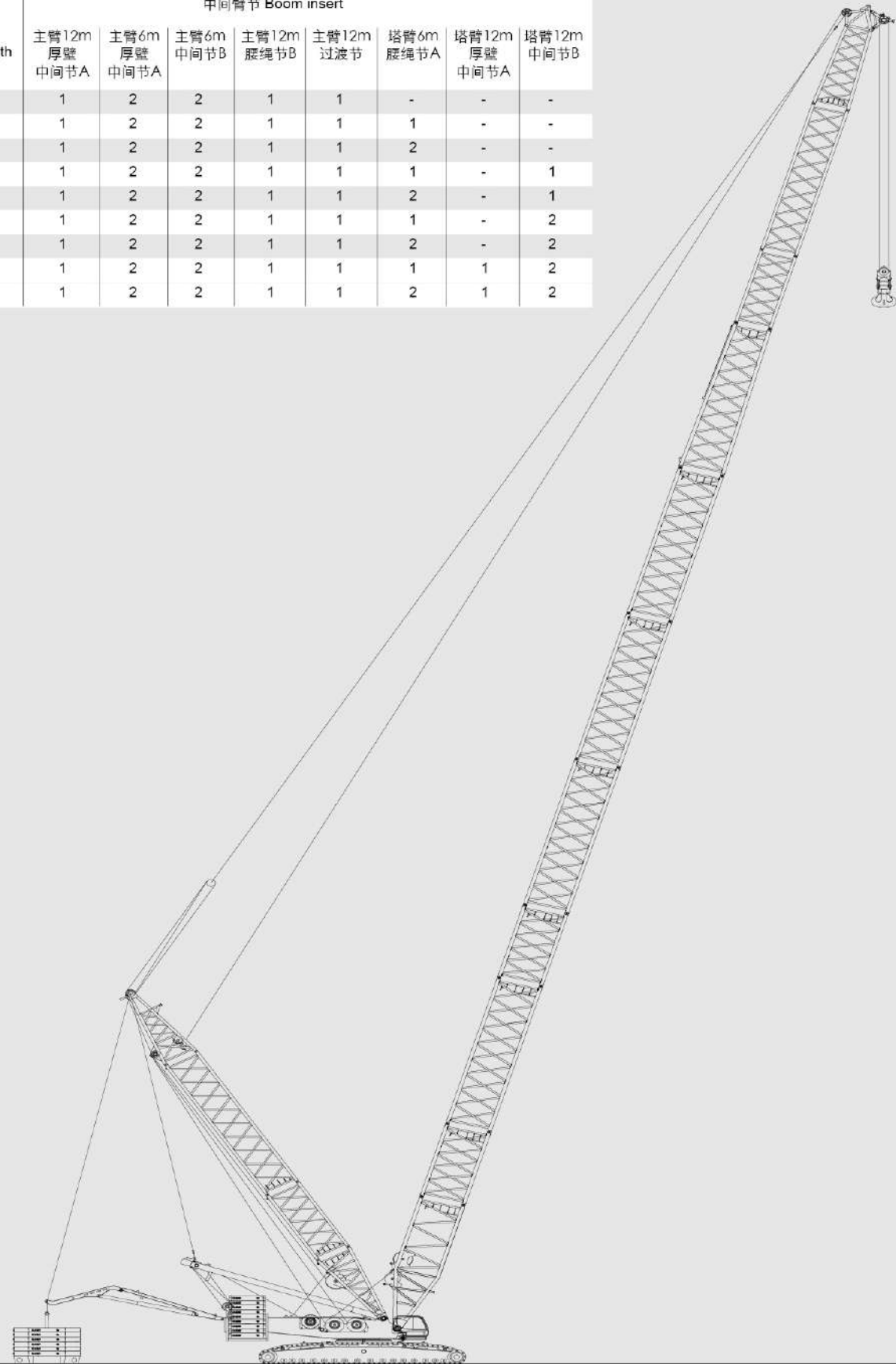
180t转台平衡重+45t车身平衡重+250t超起平衡重，超起平衡重半径19m
180t turntable ballast+45t car-body ballast+250t SL ballast, SL ballast radius 19m

幅度Radius (m)	臂长 Boom length (m)												
	36	42	48	54	60	66	72	78	84	90	96	102	108
7	650												
8	650	650	607										
9	650	650	607	557	506								
10	650	650	607	557	506	453	426						
12	650	650	607	557	506	453	426	389	319	286	235		
14	561	569	557	557	506	453	426	387	319	285	234	197	177
16	491	489	487	487	485	453	426	367	318	265	234	196	176
18	436	434	433	432	430	429	425	366	317	264	233	196	175
20	392	390	388	388	386	385	383	363	316	263	232	194	174
22	355	353	352	351	350	349	347	346	314	261	230	193	173
24	325	323	321	321	319	318	316	315	313	260	229	192	171
26	297	296	295	295	293	292	290	289	287	258	227	191	170
28	272	271	271	271	270	270	268	267	265	254	226	189	169
30	243	250	249	249	248	248	247	247	245	245	224	188	167
34		213	214	215	213	213	212	211	210	210	203	175	165
38		181	187	187	186	186	185	184	183	182	182	163	153
42			165	166	165	164	163	162	161	160	159	151	140
46				148	146	146	144	144	142	142	141	139	125
50					131	130	129	128	127	126	125	123	117
54					118	118	116	115	114	113	112	111	107
58						107	105	104	103	102	102	100	98
62							96	95	93	93	93	91	89
66								87	85	85	84	83	81
70								79	78	77	77	76	74
74									69	71	71	70	68
78										64	64	63	61
82											57	57	55
86												51	50
90												45	44
94													39
吊钩	700t	700t	700t	700t	700t	500t	500t	500t	500t	250t	250t	250t	250t
钩重(t)	13	13	13	13	13	7.4	7.4	7.4	7.4	5.5	5.5	5.5	5.5
倍率	2*24	2*23	2*21	2*19	2*17	2*15	2*14	2*12	2*11	2*10	2*9	2*9	2*9

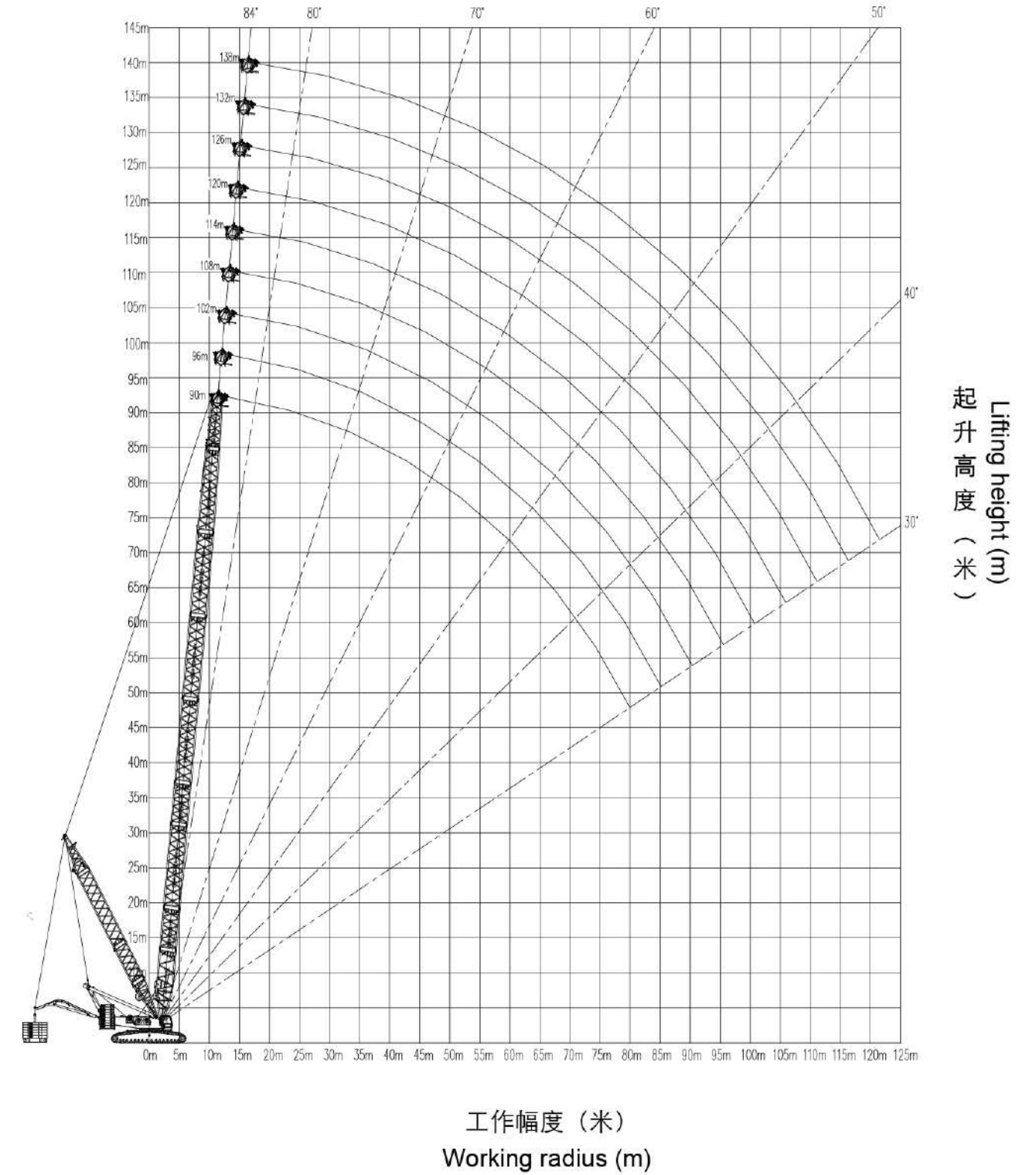
注：臂长带*表示需辅助起臂。

超起工况轻型主臂臂节组合/轻型主臂 SL Mode Light Boom Combinations/Light Boom

臂长 Boom length (m)	中间臂节 Boom insert							
	主臂12m 厚壁 中间节A	主臂6m 厚壁 中间节A	主臂6m 中间节B	主臂12m 腰绳节B	主臂12m 过渡节	塔臂6m 腰绳节A	塔臂12m 厚壁 中间节A	塔臂12m 中间节B
90	1	2	2	1	1	-	-	-
96	1	2	2	1	1	1	-	-
102	1	2	2	1	1	2	-	-
108	1	2	2	1	1	1	-	1
114	1	2	2	1	1	2	-	1
120	1	2	2	1	1	1	-	2
126	1	2	2	1	1	2	-	2
132	1	2	2	1	1	1	1	2
138	1	2	2	1	1	2	1	2



超起工况轻型主臂作业范围图 Standard Mode Light Boom Lifting Load Chart

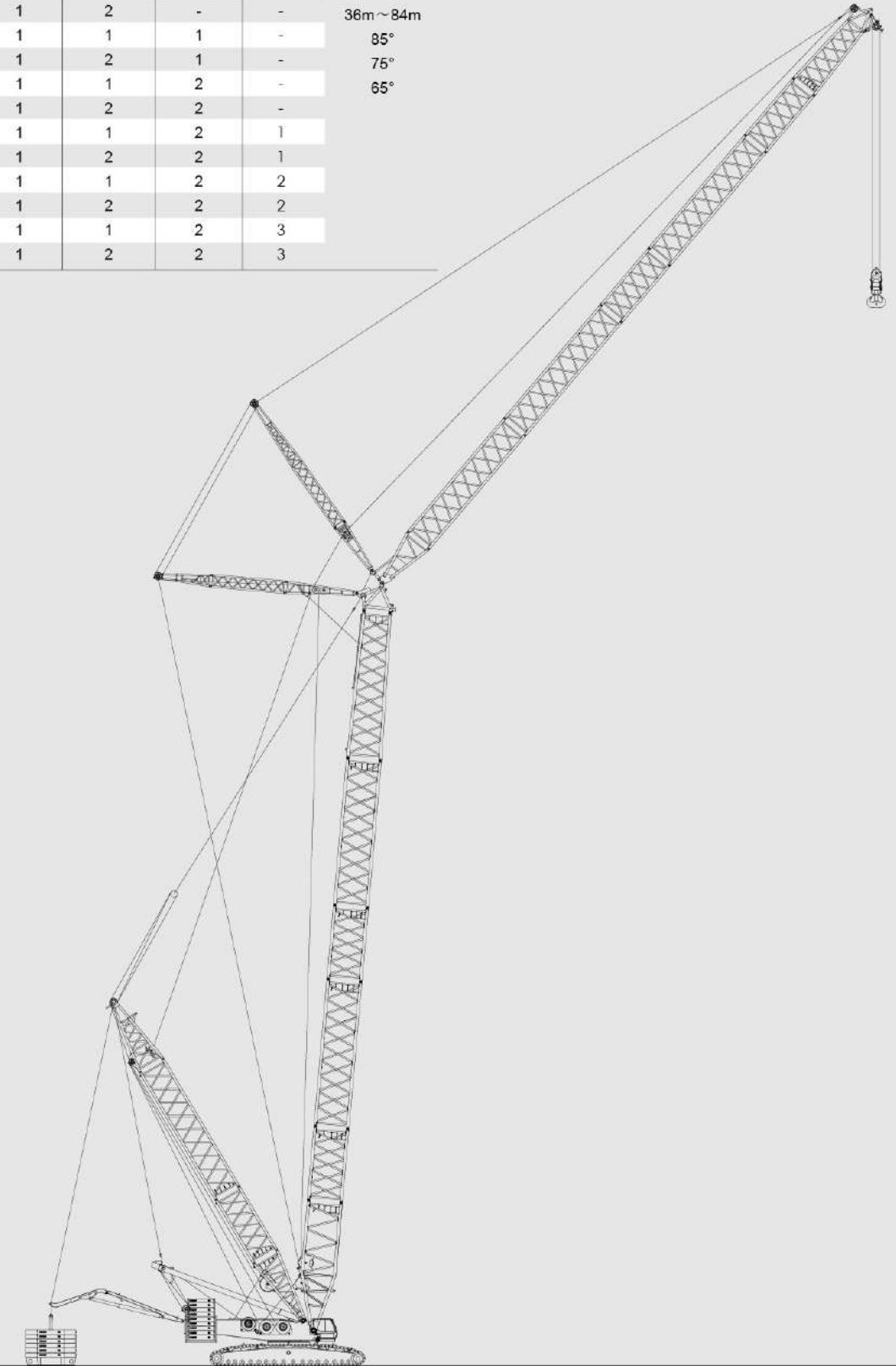


超起工况轻型主臂起重性能表
Standard Wind Power Jib Combinations/Tower Jib

幅度Radius (m)	臂长 Boom length (m)								
	90	96	102	108	114	120	126	132	138
12	263	228							
14	263	227	192	174	142	130			
16	263	226	190	173	145	126	113	100	88
18	263	225	189	173	145	125	113	99	85
20	261	224	187	170	144	125	112	100	84
22	256	222	185	169	143	124	111	99	83
24	249	218	183	167	142	123	111	98	82
26	244	214	180	166	142	122	110	97	80
28	238	211	178	163	141	119	109	96	79
30	225	206	176	162	140	118	108	95	78
34	203	189	166	160	138	114	102	93	76
38	176	177	154	158	136	110	100	92	73
42	155	160	142	121	134	106	99	91	70
46	140	141	132	115	133	103	97	89	67
50	126	126	121	109	105	99	96	88	65
54	114	113	110	104	101	95	94	85	62
58	104	102	102	99	96	91	93	83	59
62	94	93	92	91	90	87	87	80	55
66	86	85	84	84	83	82	82	78	52
70	79	79	77	77	76	76	74	74	49
74	73	72	70	71	70	70	68	67	48
78	65	66	65	65	65	65	63	62	45
82		60	60	60	59	59	58	58	42
86			56	55	55	55	53	52	36
90			50	51	51	51	49	48	35
94				45	47	47	45	44	34
98					42	43	42	41	33
102						39	39	38	32
106							35	36	29
110								32	28
114								30	27
118									25
122									22

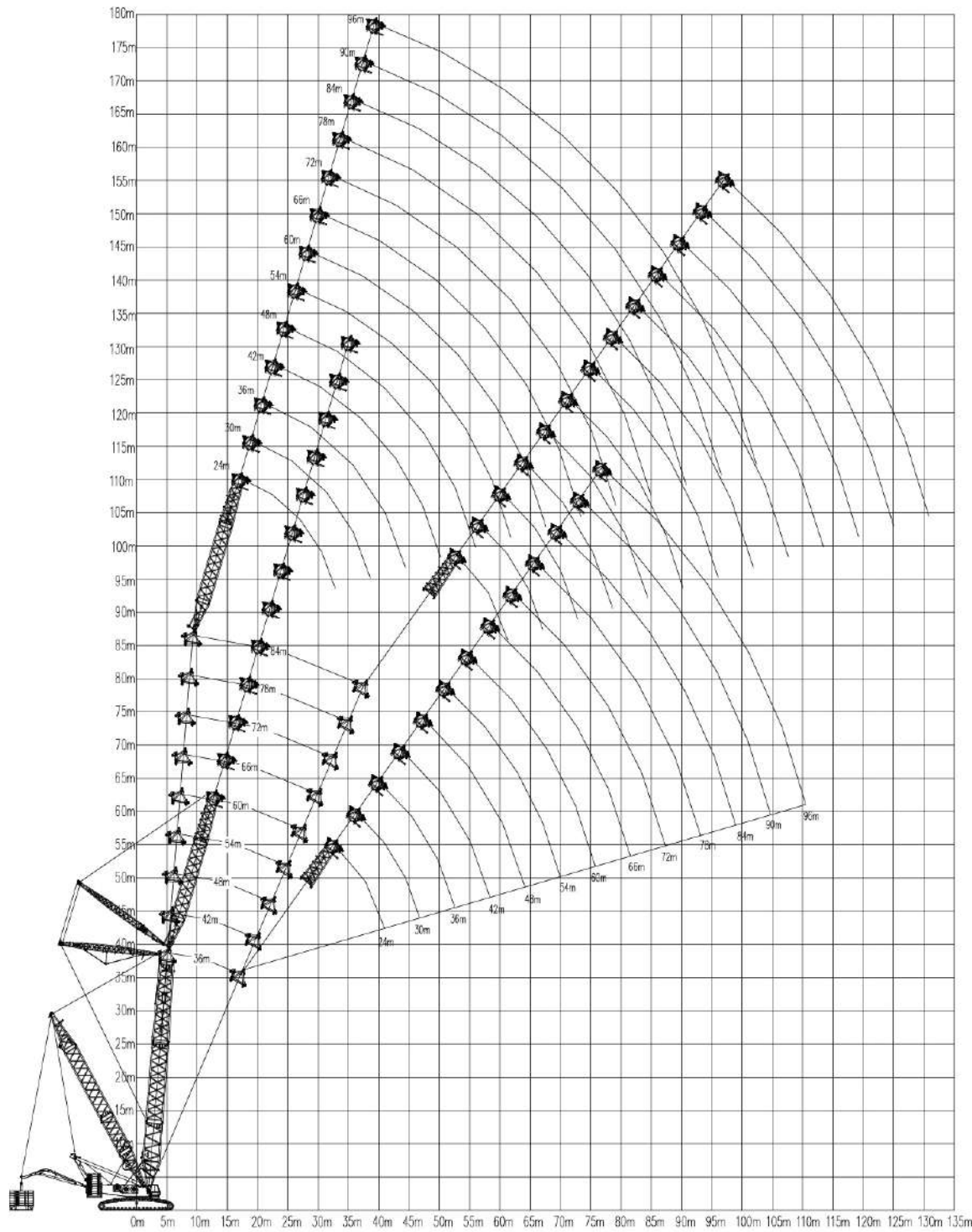
超起工况塔式副臂臂节组合/塔式主臂
SL Mode Tower jib Combinations/Tower jib

臂长 Boom length (m)	中间臂节Tower jib insert				主臂长度和角度
	塔臂12m 厚壁 中间节A	塔臂6m 腰绳节A	塔臂12m 中间节B	塔臂12m 薄壁 中间节C	
24	1	-	-	-	
30	1	1	-	-	
36	1	2	-	-	36m~84m
42	1	1	1	-	85°
48	1	2	1	-	75°
54	1	1	2	-	65°
60	1	2	2	-	
66	1	1	2	1	
72	1	2	2	1	
78	1	1	2	2	
84	1	2	2	2	
90	1	1	2	3	
96	1	2	2	3	



超起工况塔式副臂作业范围图 SL Mode Tower jib Working Area

超起工况塔式副臂起重性能表 SL Mode Tower Jib Lifting Load Chart



工作幅度 (米)
Working radius (m)

起升高度 (米)
Lifting height (m)

主臂长度54米, 主臂角度85°, 180t转台平衡重+45t车身平衡重+250t超起平衡重, 超起平衡重半径19m
Boom length 54m, Boom Angle 85°, 180t turntable ballast + 45t car-body ballast+250t SL ballast, SL radius 19m

副臂 (m) 幅度Radius (m)	24				30				36			
	0	90	170	250	0	90	170	250	0	90	170	250
16	215	300	300	300								
18	187.1	284	284	284	183.8	252	252	252				
20	165.3	260	268	268	162.5	242	242	242	159.6	214	214	214
22	147.8	233	252	252	145.3	230	231	231	142.8	207	207	207
24	133.5	211	236	236	131.3	208	220	220	129	200	200	200
26	121.6	192.2	221	221	119.6	190.5	209	209	117.5	187.8	192.7	192.7
28	111.4	176.1	204	204	109.6	175.2	198	198	107.7	172.7	183	183
30	101.6	162.1	183.7	183.7	101.1	162.1	183.6	183.6	99.3	159.7	171.3	171.3
34					85.8	138.7	157.9	157.9	85.2	138.2	149.2	149.2
38									73.2	119.8	129.6	129.6
42									63.4	105.1	113.3	113.3
吊钩	500t								250			
钩重 (t)	7.4								5.5			
倍率	2*10				2*9				2*7			
风速 (m/s)	9.0											

注: 起升钢丝绳单位重量 = 3.85kg/m

使用单滑轮时, 主钩起重能力 = 额定载荷 - 单滑轮重量 - 小钩重量 - 小钩起升重量

臂架带选配字样的需要选配臂架拉板

表中的额定载荷值包括吊钩、钢丝绳和其他吊具的重量, 额定载荷值减去上述项目重量之和才是起重的重量。

超起工况塔式副臂起重性能表 SL Mode Tower Jib Lifting Load Chart

主臂长度54米，主臂角度85°，180t转台平衡重+45t车身平衡重+250t超起平衡重，超起平衡重半径19m
 Boom length 54m, Boom Angle 85°, 180t turntable ballast + 45t car-body ballast+250t SL ballast, SL radius 19m

副臂 (m) 幅度Radius (m)	42				48				54			
	0	90	170	250	0	90	170	250	0	90	170	250
22	140.5	185.4	185.4	185.4								
24	127	180.4	180.4	180.4	124.6	159.6	159.6	159.6				
26	115.6	174.9	174.9	174.9	113.4	155.8	155.8	155.8	111.6	138.6	138.6	138.6
28	106	169.1	169.1	169.1	103.9	151.9	151.9	151.9	102.2	136.6	136.6	136.6
30	97.7	157.7	160	160	95.7	146.6	146.6	146.6	94.1	133	133	133
34	84.1	136.8	141.9	141.9	82.3	132.4	132.4	132.4	80.9	122.2	122.2	122.2
38	72.7	119.3	125	125	71.5	118.2	118.5	118.5	70.5	111.1	111.1	111.1
42	63.3	104.9	109.8	109.8	62.2	103.8	105.4	105.4	61.5	100.2	100.2	100.2
46	55.5	93.1	96.4	96.4	54.6	92.2	93.4	93.4	53.9	89.9	89.9	89.9
50					48.2	82.5	82.6	82.6	47.7	80.3	80.3	80.3
54									42.3	71.6	71.6	71.6
58									37.7	63.9	63.9	63.9
吊钩	200t				200t				200t			
钩重(t)	5.4				5.4				5.4			
倍率	2*6				2*6				2*5			
风速(m/s)	9.0											

注：起升钢丝绳单位重量=3.85kg/m

使用单滑轮时，主钩起重能力=额定载荷-单滑轮重量-小钩重量-小钩起升重量

臂架带选配字样的需要选配臂架拉板

表中的额定载荷值包括吊钩、钢丝绳和其他吊具的重量，额定载荷值减去上述项目重量之和才是起重重量。

超起工况塔式副臂起重性能表 SL Mode Tower Jib Lifting Load Chart

主臂长度72米，主臂角度85°，180t转台平衡重+45t车身平衡重+250t超起平衡重，超起平衡重半径19m
 Boom length 72m, Boom Angle 85°, 180t turntable ballast + 45t car-body ballast+250t SL ballast, SL radius 19m

副臂 (m) 幅度Radius (m)	24				30				36			
	0	90	170	250	0	90	170	250	0	90	170	250
18	177.2	215	215	215								
20	157.1	209	209	209	154.3	185.3	185.3	185.3				
22	140.9	198.1	198.1	198.1	138.4	180.3	180.3	180.3	135.9	160.4	160.4	160.4
24	127.6	185.1	185.1	185.1	125.3	170	170	170	123	154.5	154.5	154.5
26	116.4	172.4	172.4	172.4	114.4	159.6	159.6	159.6	112.2	146.4	146.4	146.4
28	106.9	160.5	160.5	160.5	105	149.4	149.4	149.4	103	138.1	138.1	138.1
30	98.6	149.7	149.7	149.7	97	139.5	139.5	139.5	95.1	129.9	129.9	129.9
34					83.8	121.5	121.5	121.5	82.1	114.2	114.2	114.2
38									71.9	100	100	100
42									62.4	87.8	87.8	87.8
吊钩	250				200t				200t			
钩重(t)	5.5				5.4				5.4			
倍率	2*7				2*6				2*6			
风速(m/s)	9.0											

注：起升钢丝绳单位重量=3.85kg/m

使用单滑轮时，主钩起重能力=额定载荷-单滑轮重量-小钩重量-小钩起升重量

臂架带选配字样的需要选配臂架拉板

表中的额定载荷值包括吊钩、钢丝绳和其他吊具的重量，额定载荷值减去上述项目重量之和才是起重重量。

超起工况塔式副臂起重性能表 SL Mode Tower Jib Lifting Load Chart

主臂长度72米，主臂角度85°，180t转台平衡重+45t车身平衡重+250t超起平衡重，超起平衡重半径19m
 Boom length 72m, Boom Angle 85°, 180t turntable ballast + 45t car-body ballast+250t SL ballast, SL radius 19m

副臂 (m)	42				48				54			
	0	90	170	250	0	90	170	250	0	90	170	250
24	121	139.8	139.8	139.8								
26	110.4	134.8	134.8	134.8	108.2	122.1	122.1	122.1				
28	101.3	128.3	128.3	128.3	99.2	117.3	117.3	117.3	97.5	106.7	106.7	106.7
30	93.5	121.6	121.6	121.6	91.5	112.1	112.1	112.1	89.9	102.7	102.7	102.7
34	80.7	108.4	108.4	108.4	78.8	101.4	101.4	101.4	77.4	94.2	94.2	94.2
38	70.6	95.9	95.9	95.9	68.9	90.8	90.8	90.8	67.6	85.4	85.4	85.4
42	62	84.6	84.6	84.6	60.8	80.9	80.9	80.9	59.6	76.9	76.9	76.9
46	54.4	74.6	74.6	74.6	53.4	71.8	71.8	71.8	52.7	68.9	68.9	68.9
50					47.2	63.6	63.6	63.6	46.5	61.4	61.4	61.4
54					41.8	56.6	56.6	56.6	41.3	54.8	54.8	54.8
58									36.8	48.8	48.8	48.8
吊钩	200t				200t				200t			
钩重 (t)	5.4				5.4				5.4			
倍率	2*5				2*4				2*4			
风速(m/s)					9.0							

注：起升钢丝绳单位重量=3.85kg/m

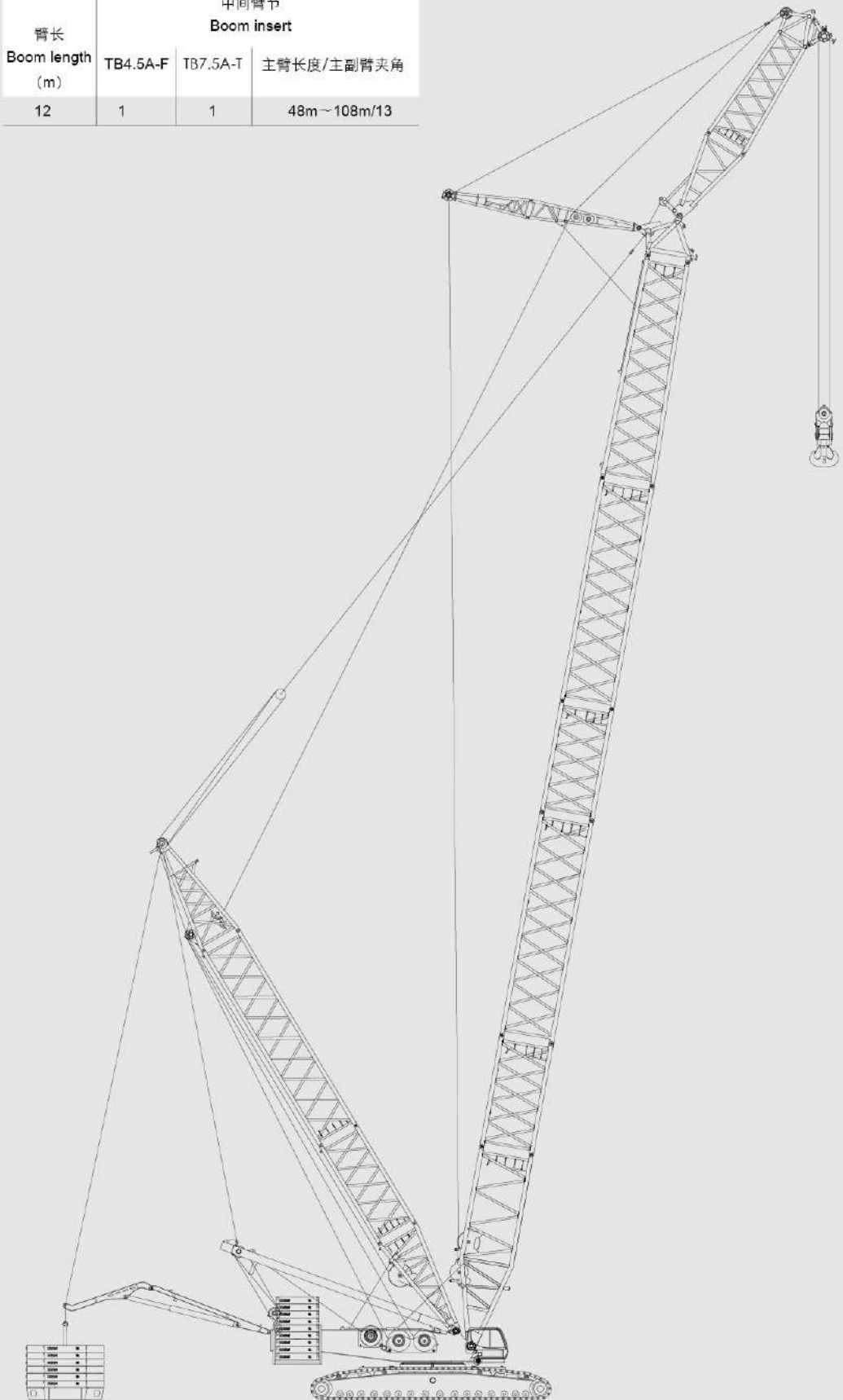
使用单滑轮时，主钩起重能力=额定载荷-单滑轮重量-小钩重量-小钩起升重量

臂架带选配字样的需要选配臂架拉板

表中的额定载荷值包括吊钩、钢丝绳和其他吊具的重量，额定载荷值减去上述项目重量之和才是起重的重量。

超起工况专用副臂臂节组合/专用主臂 SL Mode Special jib Combinations/Special jib

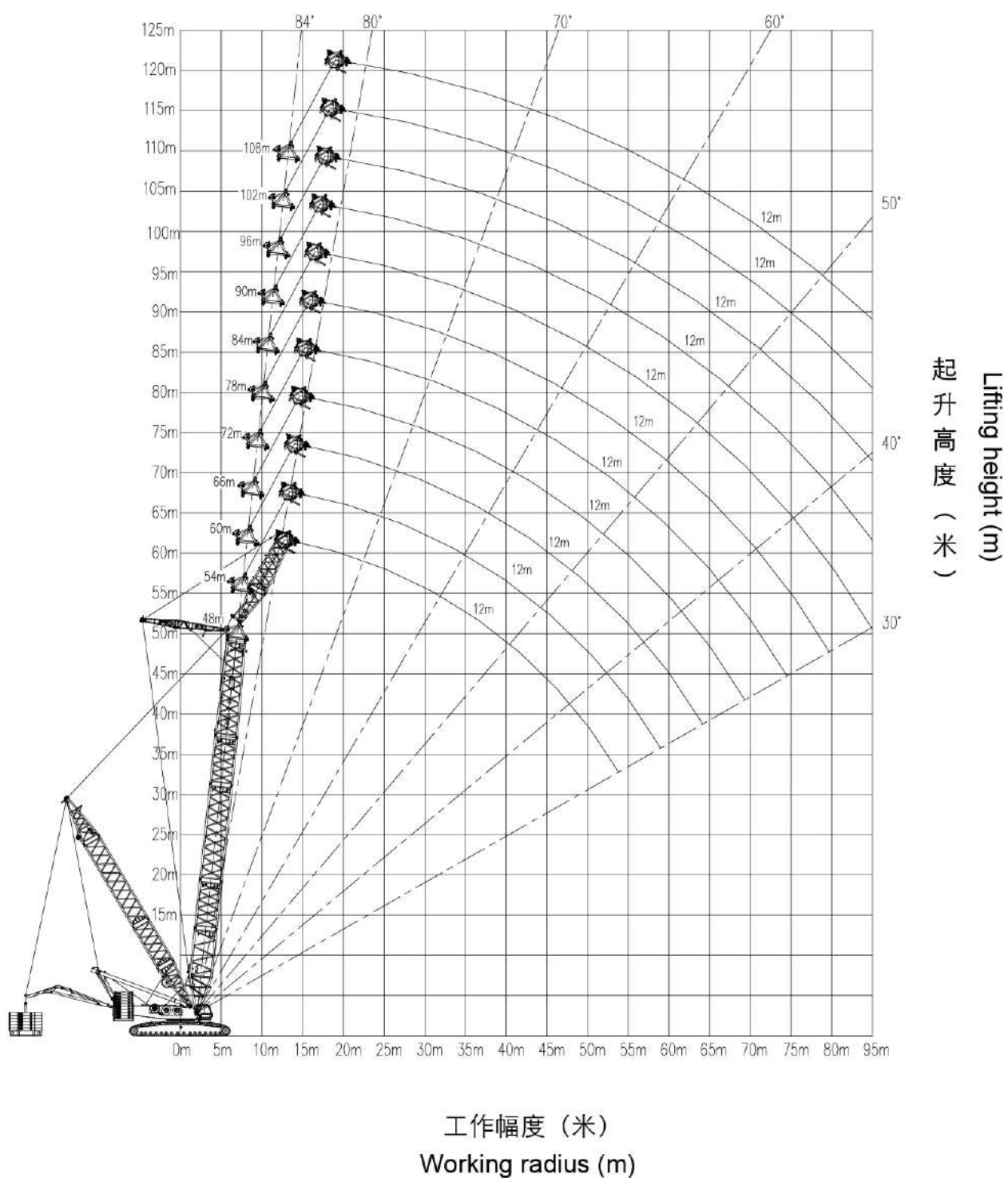
臂长 Boom length (m)	中间臂节 Boom insert		主臂长度/主副臂夹角
	TB4.5A-F	TB7.5A-T	
12	1	1	48m~108m/13



超起工况专用副臂作业范围图 SL Mode Special jib Working Area

超起工况专用副臂性能表 SL Mode Fixed Fly Jib Lifting Chart

主副臂夹角13°，副臂12m，180t转台平衡重+45t车身平衡重+250t超起平衡重，超起平衡重半径19m
Angle 13°, J 12m, 180t turntable ballast + 45t car-body ballast+250t SL ballast, SL radius 19m



主臂长 Boom Length (m)	48				54				60			
	幅度Radius (m)				幅度Radius (m)				幅度Radius (m)			
	0	90	170	250	0	90	170	250	0	90	170	250
14	244	340	340*	340*	236	340	340*	340*	227	324	324*	324*
16	209	335	340	340*	202	331	340	340*	195	321	314*	323*
18	181	288	340	340*	176	288	282	332*	170	282	277	321*
20	166	252	327	340	154	251	327	330*	150	248	320	320*
22	137	327	291	328	135	222	290	328	133	219	289	319
24	120	199	261	312	119	198	261	311	117	196	259	309
26	106	179	236	286	106	178	236	285	104	176	234	283
28	94	161	215	262	94	160	215	261	92	159	213	260
30	84	145	197	240	83	145	196	240	82	144	195	239
34	68	121	168	206	67	120	167	205	66	119	166	204
38	56	102	144	179	55	102	143	178	54	100	142	177
42	46	87	124	157	45	87	124	156	44	85	122	155
46	38	75	109	139	37	75	108	139	36	73	107	137
50	31	66	96	124	31	65	95	123	29	63	94	122
54	26	57	85	111	25	57	85	110	23	55	83	109
58					20	49	75	99	19	48	74	98
62									14	42	66	88
66									11	36	59	80
吊钩	500t											
钩重 (t)	7.4											
倍率	2*11											
风速 (m/s)	12											

注：性能中带*表示超起平衡重不能落地；
使用单滑轮时，主钩起重能力=额定载荷-单滑轮重量-小钩重量-小钩起升重量；
起升钢丝绳单位重量=3.85kg/m；
选配字样的工况需要选配臂架拉板；
表中的额定载荷值包括吊钩、钢丝绳和其他吊具的重量，额定载荷值减去上述项目重量之和才是起重的重量。

超起工况专用副臂性能表 SL Mode Fixed Fly Jib Lifting Chart

超起工况专用副臂性能表 SL Mode Fixed Fly Jib Lifting Chart

主副臂夹角13°，副臂12m，180t转台平衡重+45t车身平衡重+250t超起平衡重，超起平衡重半径19m
Angle 13°, J 12m, 180t turntable ballast + 45t car-body ballast+250t SL ballast, SL radius 19m

主副臂夹角13°，副臂12m，180t转台平衡重+45t车身平衡重+250t超起平衡重，超起平衡重半径19m
Angle 13°, J 12m, 180t turntable ballast + 45t car-body ballast+250t SL ballast, SL radius 19m

主臂长 Boom Length (m)	66				72				78			
	0	90	170	250	0	90	170	250	0	90	170	250
16	189	301	301*	301*	182	286	286*	286*	176	244	244*	244*
18	165	275	269*	300*	159	266	261*	285*	154	243	243*	243*
20	145	245	240	299*	140	237	233*	284*	135	231	226*	243*
22	129	216	289	298	124	213	283	283*	120	208	204*	242*
24	116	289	259	296	111	190	258	282	108	188	184	241*
26	103	174	234	283	100	171	233	281	97	169	232	240
28	92	158	213	260	90	155	211	258	87	153	211	239
30	82	143	195	238	80	141	193	237	79	140	192	236
34	65	118	165	203	64	117	164	202	63	116	163	201
38	53	99	141	176	51	98	139	175	50	97	138	174
42	43	85	122	154	41	83	120	153	40	82	119	152
46	35	73	106	137	33	71	104	135	32	70	103	134
50	28	63	93	121	27	61	91	120	26	60	90	118
54	23	54	82	108	21	53	81	106	20	51	80	105
58	18	47	73	97	16	45	71	95	15	44	70	94
62	14	41	65	87	12	39	63	86	11	38	62	85
66	10	35	58	79	8	34	56	77	7	33	55	76
70	7	30	52	71	5	29	50	70	4	28	49	69
74						25	45	63		24	44	62
78										20	39	56
82										16	34	51
吊钩	500t				500t				250t			
钩重(t)	7.4				7.4				5.5			
倍率	2*10				2*9				2*8			
风速(m/s)	11				11				11			

注：性能中带*表示超起平衡重不能落地；
使用单滑轮时，主钩起重能力=额定载荷-单滑轮重量-小钩重量-小钩起升重量；
起升钢丝绳单位重量=3.85kg/m；
选配字样的工况需要选配臂架拉板；
表中的额定载荷值包括吊钩、钢丝绳和其他吊具的重量，额定载荷值减去上述项目重量之和才是起重的重量。

主臂长 Boom Length (m)	84				90				96			
	0	90	170	250	0	90	170	250	0	90	170	250
18	148	215	215*	215*	143	181	181*	181*	138	162	162*	162*
20	131	214	214*	214*	127	181	181*	181*	122	161	161*	161*
22	116	202	198*	214*	112	180	180*	180*	108	160	160*	160*
24	103	183	179*	213*	100	179	175*	179*	96	159	159*	159*
26	93	179*	163	212*	90	163	160*	178*	86	158	155*	158*
28	83	151	208	210*	81	149	146	176*	77	145	142*	157*
30	75	137	190	209	73	136	133	175*	70	133	130	156*
34	61	114	161	200	59	114	160	173	56	112	109	154*
38	49	95	137	172	48	95	136	170	46	93	135	151
42	39	80	117	150	38	80	117	150	37	78	115	148
46	31	68	102	133	30	68	101	132	28	66	100	130
50	24	58	89	117	23	58	88	116	22	56	86	115
54	18	50	78	104	18	49	77	103	16	48	76	102
58	14	43	69	93	13	42	68	92	11	40	66	90
62	9	36	61	83	9	36	60	82	7	34	58	81
66	6	31	54	75	5	30	53	74		29	51	72
70		26	47	67		25	47	66		24	45	65
74		22	42	61		21	41	60		20	40	58
78		18	37	55		17	36	54		16	35	52
82		15	33	49		14	32	49		12	30	47
86		11	28	45		11	28	44		9	26	42
90						8	24	40		6	22	38
94										4	19	34
吊钩	250t				200t				200t			
钩重(t)	5.5				5.4				5.4			
倍率	2*7				2*6				2*5			
风速(m/s)	9				9				9			

注：性能中带*表示超起平衡重不能落地；
使用单滑轮时，主钩起重能力=额定载荷-单滑轮重量-小钩重量-小钩起升重量；
起升钢丝绳单位重量=3.85kg/m；
选配字样的工况需要选配臂架拉板；
表中的额定载荷值包括吊钩、钢丝绳和其他吊具的重量，额定载荷值减去上述项目重量之和才是起重的重量。

超起工况专用副臂性能表 SL Mode Fixed Fly Jib Lifting Chart

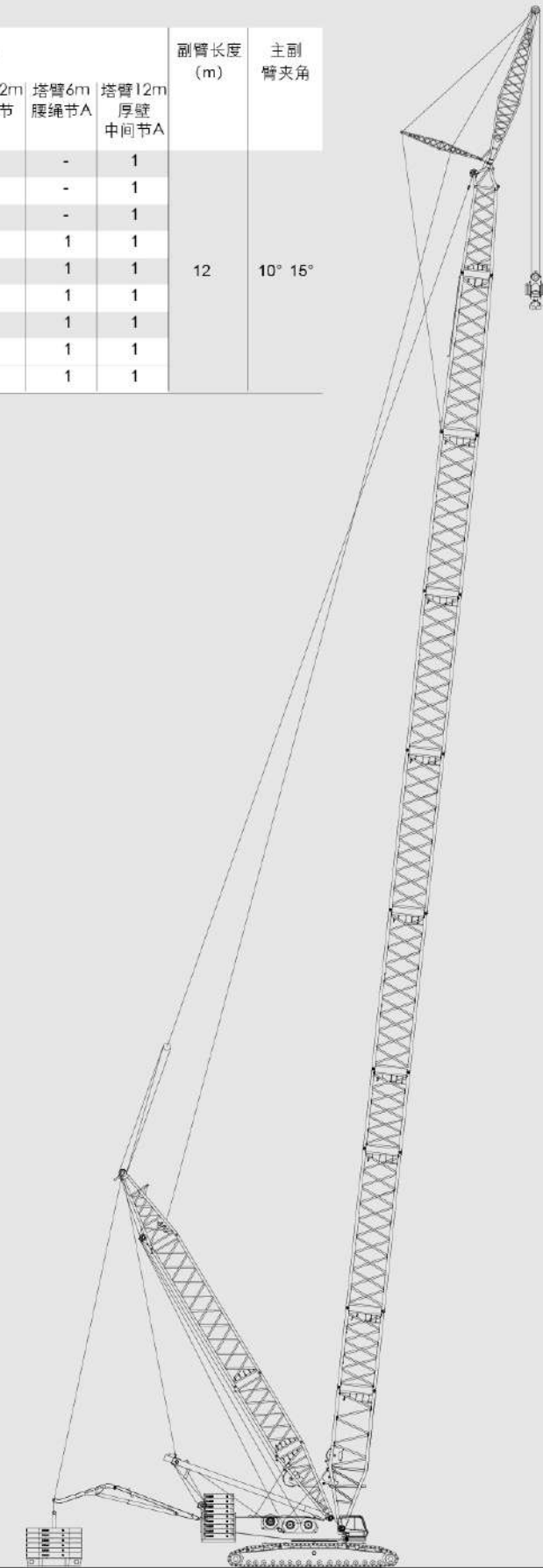
主副臂夹角13°，副臂12m，180t转台平衡重+45t车身平衡重+250t超起平衡重，超起平衡重半径19m
Angle 13°, J 12m, 180t turntable ballast + 45t car-body ballast+250t SL ballast, SL radius 19m

主臂长 Boom Length (m)	102				108			
	0	90	170	250	0	90	170	250
20	118	137	137*	137*	114	123*	123*	123*
22	105	136	136*	136*	101	122	122*	122*
24	93	135	135*	135*	90	121	121*	121*
26	83	134	134*	134*	80	120	120*	120*
28	75	133	133*	133*	71	119	119*	119*
30	67	130	127*	132*	64	118	118*	118*
34	54	110	108	130*	51	106	104	116*
38	44	93	91	127*	41	91	89	114*
42	35	77	115	125	32	76	112	112*
46	28	65	99	121	25	64	97	110
50	21	55	86	114	19	54	84	105
54	15	47	75	101	13	45	73	99
58	10	39	65	90	9	38	64	88
62	6	33	57	80	4	32	56	78
66		28	50	71		26	49	70
70		23	44	64		21	42	62
74		19	39	57		17	37	56
78		15	34	52		13	32	50
82		11	29	46		10	28	45
86		8	25	42		7	24	40
90		5	22	37		4	20	35
94			18	33			17	31
98			15	29			13	28
吊钩	500t							
钩重(t)	7.4							
倍率	2*10							
风速(m/s)	11							

注：性能中带*表示超起平衡重不能落地；
使用单滑轮时，主钩起重能力=额定载荷-单滑轮重量-小钩重量-小钩起升重量；
起升钢丝绳单位重量=3.85kg/m；
选配字样的工况需要选配臂架拉板；
表中的额定载荷值包括吊钩、钢丝绳和其他吊具的重量，额定载荷值减去上述项目重量之和才是起重的重量。

超起工况风电副臂臂节组合/风电副臂 SL Mode Boom Point For Wind Power Combinations/Boom Point For Wind Power

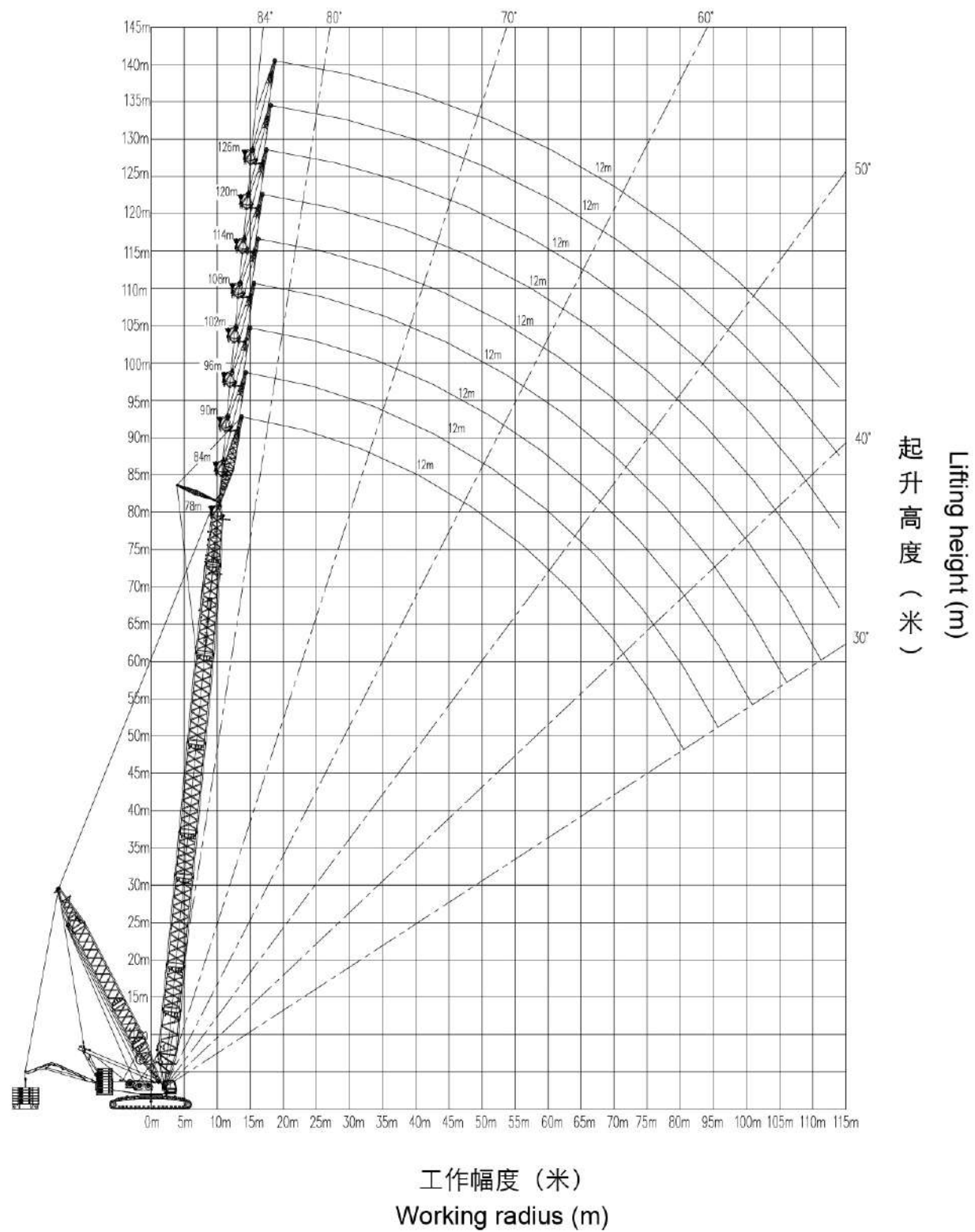
臂长 Boom length (m)	中间臂节 Boom insert							副臂长度 (m)	主副 臂夹角
	主臂12m 厚壁 中间节A	主臂6m 厚壁 中间节A	主臂12m 中间节B	主臂12m 腰绳节B	主臂12m 过渡节	塔臂6m 腰绳节A	塔臂12m 厚壁 中间节A		
78	2	1	2	-	-	-	1	12	10° 15°
84	1	1	2	1	-	-	1		
90	2	1	2	1	-	-	1		
96	1	1	2	1	-	1	1		
102	2	1	2	1	-	1	1		
108	1	1	2	1	1	1	1		
114	2	1	2	1	1	1	1		
120	1	1	2	1	2	1	1		
126	2	1	2	1	2	1	1		



超起工况风电副臂作业范围图 SL Mode Boom Point For Wind Power Working Area

超起工况风电副臂起重性能表 SL Mode Boom Point For Wind Power Lifting Load Chart

主副臂夹角15°，副臂12m，180t转台平衡重+45t车身平衡重+250t超起平衡重，超起平衡重半径14m
Angle 15°, J 12m, 180t turntable ballast + 45t car-body ballast+250t SL ballast, SL radius 14m



主臂长 Boom Length (m)	78				84				90			
	0	90	170	250	0	90	170	250	0	90	170	250
16	170	170	170	170	170	170	170	170	170	170	170	170
18	162	170	170	170	159	170	170	170	157	170	170	170
20	141	170	170	170	139	170	170	170	137	170	170	170
22	125	170	170	170	123	170	170	170	121	170	170	170
24	112	170	170	170	110	170	170	170	108	170	170	170
26	100	163	170	170	99	151	170	170	97	149	170	170
28	91	139	170	170	89	138	170	170	88	135	170	170
30	83	128	170	170	81	126	170	170	80	124	170	170
34	69	108	142	170	68	107	141	170	66	105	139	170
38	57	92	123	151	57	91	122	149	55	90	120	147
42	49	80	107	133	48	79	106	132	46	77	105	130
46	41	69	95	118	40	69	94	117	39	67	92	116
50	35	61	84	106	34	60	83	105	33	59	81	103
54	30	54	75	95	29	53	74	94	28	52	73	93
58	26	48	67	87	25	47	66	86	24	45	65	84
62	22	43	61	79	21	42	60	78	20	40	58	76
66	19	38	55	72	18	37	54	71	17	36	53	69
70	16	34	50	66	15	33	49	65	14	32	47	63
74	14	30	45	60	13	30	44	59	11	28	43	58
78	11	27	41	55	10	26	40	55	9	25	39	53
82					8	23	37	50	7	22	35	49
86					6	21	33	46	5	19	32	45
90									3	17	29	41
吊钩	200t											
钩重 (t)	5.4											
倍率	2*6											
风速 (m/s)	9											

注：起升钢丝绳单位重量=3.85kg/m;

风电副臂工况为选配工况;

臂架带选配字样的需要选配臂架拉板;

表中的额定载荷值包括吊钩、钢丝绳和其他吊具的重量，额定载荷值减去上述项目重量之和才是起重重量。

超起工况风电副臂起重性能表 SL Mode Boom Point For Wind Power Lifting Load Chart

主副臂夹角15°，副臂12m，180t转台平衡重+45t车身平衡重+250t超起平衡重，超起平衡重半径14m
Angle 15°, J 12m, 180t turntable ballast + 45t car-body ballast+250t SL ballast, SL radius 14m

主臂长 Boom Length (m)	96				102				108			
	0	90	170	250	0	90	170	250	0	90	170	250
18	159	162	162	162	144	144	144	144	124	124	124	124
20	139	162	162	162	132	144	144	144	124	124	124	124
22	123	162	162	162	117	143	143	143	115	123	123	123
24	106	156	156	156	104	143	143	143	103	123	123	123
26	96	147	156	156	93	142	142	142	92	123	123	123
28	86	134	155	155	84	131	142	142	83	122	122	122
30	78	123	155	155	76	120	141	141	75	119	122	122
34	65	104	139	153	63	102	136	140	62	101	121	121
38	55	89	120	147	53	88	118	139	52	86	117	119
42	46	77	104	129	44	75	103	127	43	74	102	118
46	38	66	92	115	37	65	90	113	36	64	89	112
50	32	58	81	103	30	56	79	101	30	56	78	100
54	27	51	72	92	26	49	70	90	26	48	69	90
58	23	45	64	83	21	43	62	81	20	42	62	81
62	19	40	58	76	17	38	56	74	17	37	55	73
66	16	35	52	69	14	33	50	67	13	32	49	66
70	13	31	47	63	11	29	45	61	11	28	44	60
74	11	27	42	57	9	25	40	55	8	25	40	55
78	8	24	38	52	6	22	36	51	6	22	36	50
82	6	21	35	48	4	19	33	46	4	19	32	46
86	4	19	31	44	2	17	30	42	2	16	29	42
90	3	16	28	41		14	27	39		14	26	38
94		14	26	37		12	24	35		12	23	35
98						10	21	32		10	21	32
102						8	19	30		8	18	29
106										6	16	27
吊钩	200t											
钩重(t)	5.4											
倍率	2*6				2*5				2*5			
风速(m/s)	9											

注：起升钢丝绳单位重量=3.85kg/m；

风电副臂工况为选配工况；

臂架带选配字样的需要选配臂架拉板；

表中的额定载荷值包括吊钩、钢丝绳和其他吊具的重量，额定载荷值减去上述项目重量之和才是起重的重量。

说明：

- 表中额定起重量，指在给定的臂架长度、工作幅度条件下，重物自由悬挂，在坡度不大于5‰的坚实、平坦地面作业所能保证的最大起重量。作业者须视各种不良条件（如地面松软或不平、风力、侧面负荷、摆动作用、多台起重机合力起吊）限制或降低起重机的起重量；
- 表中额定起重量包括吊钩、钢丝绳、和其它所有吊具的重量；
- 表中没有列出额定值的空白区，不允许将起重机用于该区所对应的起重作业；
- 表中起重量为带上车全配重和下车全配重的起重重量；
- 使用主臂可以配置臂端单滑轮机构，臂端单滑轮机构的起重量为性能表中相应的额定起重量减去臂端单滑轮机构、16t吊钩和吊具的重量；
- 臂端单滑轮机构的最大起重量（包括吊钩、吊具和起升钢丝绳）不准超过单倍率16t，性能表中的额定起重量小于3倍的臂端单滑轮的最大起重量时，不配置单滑轮。

Notes：

- The total rated lifting loads shown in above tables are the max. lifting capacity based on the condition that crane set up on firm and level ground with given boom length, radius and load, crane operator shall limit or reduce lifting loads according to variable working conditions (soft or uneven ground, wind, side loading, slewing action, lifting with one more cranes).
- The total rated lifting loads include the weight of hook block, wire rope and other slings.
- The blank area in above tables means crane operation is not allowed corresponding to these areas.
- The total rated lifting loads are the lifting capacity for the crane with superstructure Ballast and carrier Ballast.
- Boom can be equipped with a boom tip single sheave, which lifting load is the total rated lifting loads in above table decrease the weight of single sheave, 12t capacity hook block and slings.
- The max. rated lifting load for single top is 12t (include the weight of hook block, slings and hoist wire rope), if rated lifting load in above tables is less than 12t, load lifting is according to the table.