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QUY650履带起重机

QUY650 CRAWLER CRANE

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徐工集团 工程机械股份有限公司建设机械分公司

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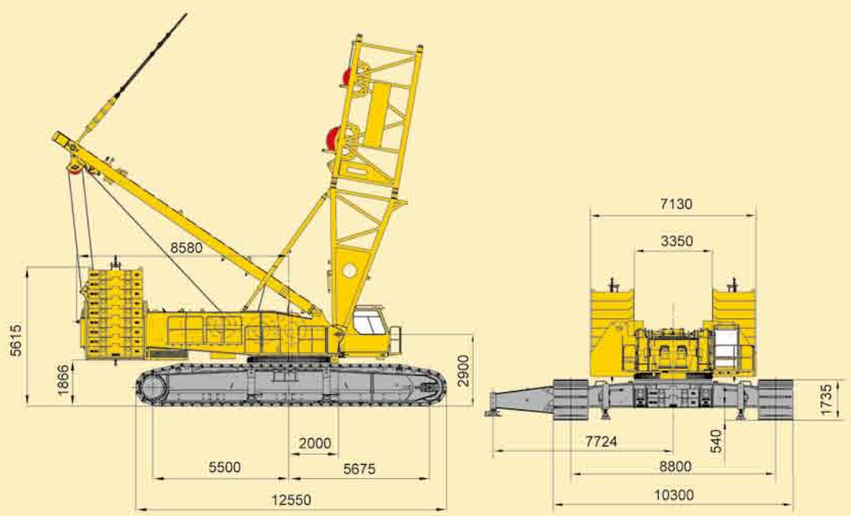
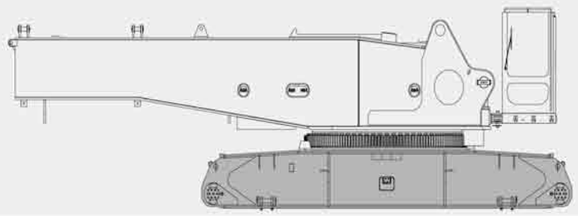
技术性能参数/整机基本尺寸
Technical Specification/Overall Dimension

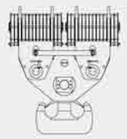
项目 Items		单位 Unit	数值 Data
最大起重量 Max. lifting capacity		t	650
标准工况 Standard mode	重型主臂长度 Heavy boom length	m	24~84
	轻型主臂长度 Light boom length	m	66~102
	塔式副臂长度 Tower jib length	m	24~84
超起工况 SL mode	重型主臂长度 Heavy boom length	m	36~96
	轻型主臂长度 Light boom length	m	90~138
	塔式副臂长度 Tower jib length	m	24~96
	专用副臂长度 Special jib length	m	12
最大单绳起升速度 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	58×2
塔臂变幅最大单绳速度 Tower jib luffing winch max. single line speed		m/min	115
超起变幅最大单绳速度 SL luffing winch max. single line speed		m/min	115
回转速度 Slewing speed		r/min	0.65
行走速度 Travel speed		km/h	1.0
平均接地比压 Mean ground pressure		MPa	0.146
发动机功率 Engine output power		kW	494
整机重量（24m重型主臂、650 t吊钩） Total vehicle weight (24m heavy boom, 650t capacity hook block)		t	530
最大单件（主机）运输重量 Max. weight of single unit (basic machine) in travel configuration		t	74
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	12.6×3.4×3.4



主要零部件
Main Parts



主机 Basic Machine	×1
长L	12600mm
宽W	3400mm
高H	3400mm
重量 Weight	74000kg

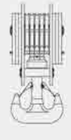


650t吊钩 Hook Block	×1
长L	2770mm
宽W	1180mm
高H	3280mm
重量 Weight	12180kg

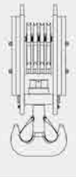
450t吊钩 Hook Block	×1
长L	2200mm
宽W	1180mm
高H	3200mm
重量 Weight	10000kg

330t吊钩 Hook Block	×1
长L	2770mm
宽W	1000mm
高H	3280mm
重量 Weight	8930kg

230t吊钩 Hook Block	×1
长L	2200mm
宽W	1000mm
高H	3200mm
重量 Weight	7380kg

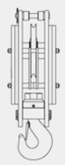


150t吊钩 Hook Block	×1
长L	1100mm
宽W	1000mm
高H	2300mm
重量 Weight	4700kg

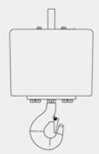


100t吊钩 Hook Block	×1
长L	880mm
宽W	1000mm
高H	2200mm
重量 Weight	3600kg

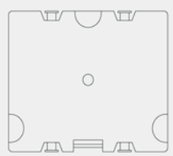
主要零部件
Main Parts



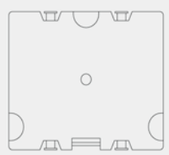
50t吊钩 Hook Block	×1
长L	960mm
宽W	770mm
高H	1720mm
重量 Weight	2800kg



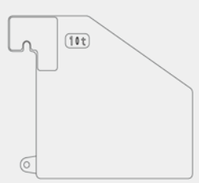
15t吊钩 Hook Block	×1
长L	600mm
宽W	600mm
高H	1170mm
重量 Weight	900kg



平衡重块 Ballast Slab	×50
长L	2180mm
宽W	1800mm
高H	510mm
重量 Weight	10000kg

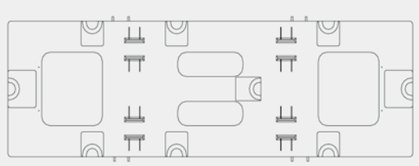


车身配重块 Car-Body Ballast	×4
长L	1800mm
宽W	410mm
高H	760mm
重量 Weight	3800kg



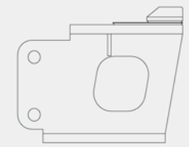
上车平衡重箱 Superstrucure Ballast Box	×2
长L	2560mm
宽W	2500mm
高H	2390mm
重量 Weight	10000kg

车身配重箱 Car-Body Ballast Box	×2
长L	3520mm
宽W	2070mm
高H	870mm
重量 Weight	2450kg

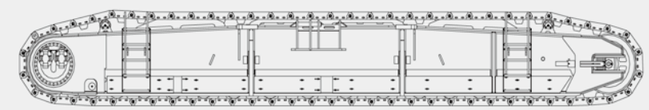


超起平衡重托盘I SL ballast tray Ⅰ	×1
长L	8500mm
宽W	2510mm
高H	1540mm
重量 Weight	19000kg

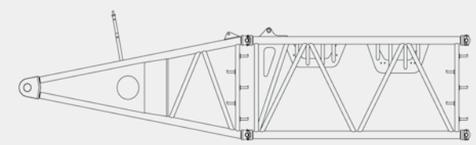
主要零部件
Main Parts



超起平衡重托盘II SL Ballast Tray Ⅱ	×4
长L	960mm
宽W	620mm
高H	760mm
重量 Weight	500kg

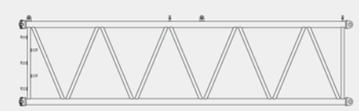


履带架 Crawler	×2
长L	12550mm
宽W	1720mm
高H	1700mm
重量 Weight	50300kg

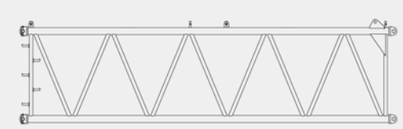


主臂6m底节臂+6m卷扬节 Boom Butt+Winch Section	×1
长L	12550mm
宽W	3060mm
高H	3340mm
重量 Weight	24270kg

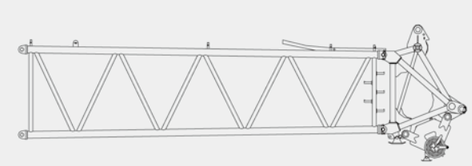
主臂6m中间节 Boom Insert	×2
长L	6220mm
宽W	3070mm
高H	3000mm
重量 Weight	4200kg



主臂12m中间节 Boom Insert	×3
长L	12210mm
宽W	3070mm
高H	3000mm
重量 Weight	7820kg

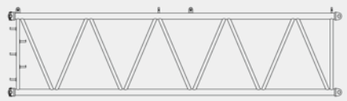


主臂12m拉板节 Boom Pendant Section	×1
长L	12210mm
宽W	3070mm
高H	3000mm
重量 Weight	8011kg



主臂10.5m锥节臂+臂头 Tapered Section +Boom Head	×1
长L	14550mm
宽W	3110mm
高H	3000mm
重量 Weight	16836kg

主要零部件
Main Parts

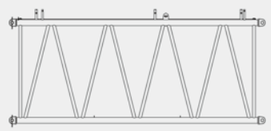


10.5m轻型过渡节
Light Boom Extension ×1

长L	10720mm
宽W	3070mm
高H	3000mm
重量 Weight	5286kg

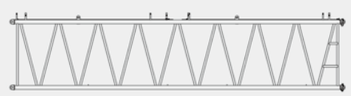
塔臂底节臂
Luffing Jib Butt ×1

长L	4750mm
宽W	2650mm
高H	2550mm
重量 Weight	3009kg



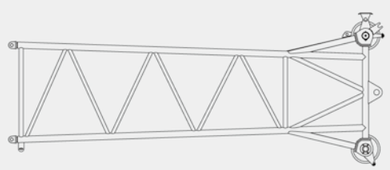
塔臂6m中间节
Luffing Jib Insert ×2

长L	6220mm
宽W	2740mm
高H	2480mm
重量 Weight	2570kg



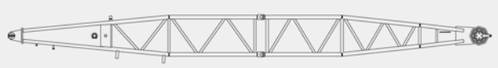
塔臂12米中间节
Luffing Jib Insert ×5

长L	12220mm
宽W	2740mm
高H	2480mm
重量 Weight	4416kg



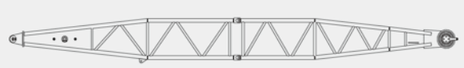
塔臂顶节臂
Luffing Jib Top ×1

长L	8700mm
宽W	2690mm
高H	2480mm
重量 Weight	6104kg



塔臂前支架
Luffing jib front strut ×1

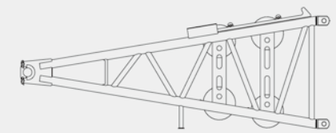
长L	17500mm
宽W	1970mm
高H	1560mm
重量 Weight	5780kg



塔臂后支架
Luffing jib rear strut ×1

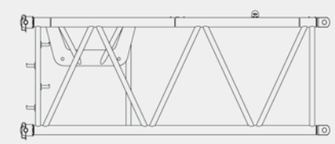
长L	17000mm
宽W	1970mm
高H	1660mm
重量 Weight	6220kg

主要零部件
Main Parts



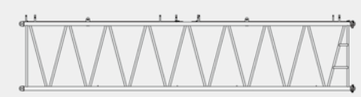
超起桅杆底节臂
SL Mast Butt Section ×1

长L	6260mm
宽W	2720mm
高H	2460mm
重量 Weight	4850kg



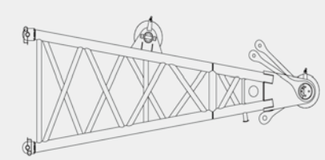
超起桅杆6m卷扬节臂
SL Mast winch section ×1

长L	6180mm
宽W	3000mm
高H	2600mm
重量 Weight	9590kg



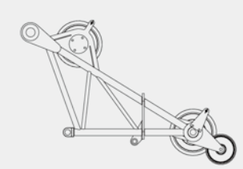
超起桅杆12m中间节
SL Mast Insert ×1

长L	12180mm
宽W	3000mm
高H	2400mm
重量 Weight	4510kg



超起桅杆顶节臂
SL Mast Top ×1

长L	6640mm
宽W	2700mm
高H	2500mm
重量 Weight	3880kg



臂端单滑轮
Extension Jib ×1

长L	3333mm
宽W	1520mm
高H	1221mm
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

QUY650选用沃尔沃公司生产的直列6缸、水冷、增压中冷、电喷环保型发动机，额定功率494 KW，额定转速1800rpm，符合欧洲工程机械II号排放标准，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，很方便地实现了人机对话。

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。副起升结构和主起升相同，用于臂端单滑轮的起升。钢丝绳均为德国进口不旋转钢丝绳，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、钢丝绳均为德国进口。

回转机构

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，具有自由滑转机能。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

采用徐州罗特艾德公司的三排滚柱式回转支承，质量稳定可靠。

Crane Superstructure

Engine

QUY650 uses VOLVO diesel engine, 6-cylinder in line, water-cooled, turbocharged, inter-cooled and electronic injection, rated output power 494kW, 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 controler, 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 System

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 made by Xuzhou Rothe Erde, with reliable quality.

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：200t
平衡重箱2件　10t/件
平衡重块18件　10t/件
车身平衡重：60t
平衡重箱2件　1.5t/件
平衡重块I 4件　10t/件
平衡重块II 4件　3.8t/件
超起平衡重：300t
超起平衡重托盘I 1件 19t/件
超起平衡重托盘II 4件 0.5t/件
平衡重块28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。装有可调式座椅、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、变幅机构、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，履带架的拆装则可利用本机的桅杆油缸吊装。车架底平面离地间隙为545mm。

车架

车架采用高强钢板、箱形结构，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。

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，中间设置横隔板。两个履带架对称设置，装有宽度为1.5m履带板，也可选装2.0m宽履带板。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，每个减速机由两台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1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:　200t
Ballast box 2 pcs.　10t/pcs.
Ballast 18 slabs　10t/slab
Car-body Ballast:　60t
Ballast box 2 pcs.　1.5t/pcs.
Ballast Ⅰ 4 slabs　10t/slab
Ballast Ⅱ 4 slabs　3.8t/slab
SL Ballast:　300t
Ballast tray Ⅰ 1 pcs.　19t/pcs.
Ballast tray Ⅱ 4 pcs.　0.5t/pcs.
Ballast 28 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“I”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 545mm.

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, or 2.0m optional, 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 1 km/h.

作业装置

起重臂包括主臂、固定副臂、塔式副臂和专用副臂。结构型式为中间等截面，两端变截面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
标准工况固定副臂工况
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

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24～84m，超起工况下，重型主臂长度为30～96m。
组成：底节臂6m、卷扬节6m、6m重型中间节×2、12m重型中间节×3、12m拉板节×1、过渡节10.5m、臂头。

固定副臂

固定副臂为中间等截面、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。
固定副臂可在主臂长36～72m范围内作业，其作业长度为12～36m，含10°及30°两种安装角。
固定副臂通过支架及固定副臂前后拉板与主臂连为一体，随着主臂变幅机构的起与落来达到固定副臂的工作幅度。固定副臂支架结构为A形双肢箱形结构，抗轴压稳定性好，该支架长度为7m。
组成：底节臂6m、中间节臂6m×4、顶节臂6m。

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范围内作业，其作业长度为24～84m。超起工况下，塔式副臂可在主臂长36～84m范围内作业，其作业长度为24～96m。
组成：底节臂4.5m、中间节臂6m×2、中间节臂12m×5、顶节臂7.5m。

专用副臂

专用副臂长度为12m，含12°和20°两种安装角，可在超起工况下，主臂长度42～84m时进行作业。
组成：塔臂4.5m底节臂+塔臂7.5m顶节臂。

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。

Lifting Operation Parts

Lifting boom comprises main boom, fixed jib, 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 Fixed Jib Working Conditions
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

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 24～84m. For SL working condition, the heavy boom length is 30～96m.
Construction: 6m boom butt, 6m winch section, 6m×2 boom insert, 12m×3 boom insert, 12m×1 pendant section, 10.5m boom extension, and boom head.

Fixed Jib

Fixed 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.
Fixed jib can be operated within the range of boom length 36~72m, and lifting operation length is 12~36m, with two offset angle of 10° and 30°.
Fixed jib is integrated with boom by fixed jib strut and fixed jib front/rear pendant, and reaches the working radius with boom luffing gear raising and lowering. Fixed jib strut is A-shaped two limb box-type structure, with good stability for anti-axial pressure, and fixed jib strut length is 7m.
Construction: 6m jib butt, 6m×4 jib insert, 6m jib top.

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, 6m×2 jib insert, 12m×5 jib insert, 7.5m jib top.

Special Jib

Special jib length is 12m, with offset angle of 12ºand 20º, can be operated within the range of boom length 42~84m for SL working condition,
Construction: 4.5m tower jib jib butt + tower jib and 7.5m jib top.

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.

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吊钩

标准配置：650t吊钩、450t吊钩、150t吊钩、100t吊钩、50t吊钩、15t吊钩

注：650t吊钩可以分解成2个330t吊钩
450t吊钩可以分解成2个230t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度载荷、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、副卷扬起升到一定高度时候，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前侧，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。

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。

Hook Block

Standard equipment: 600t capacity hook block, 450t capacity hook block, 150t capacity hook block, 100t capacity hook block, 50t capacity hook block, 15t capacity hook block.
Note: 650t capacity hook block may be divided into two 330t capacity hook blocks. 450t capacity hook block may be divided into two 230t capacity hook blocks.

Safety Devices

Safety devices comprise: load moment limiter, turntable lock pin, boom backstop, hoist limit switch, access swich, 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 Limiter

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 toughing the joystick.

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.

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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2个摄像头和1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灯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度载荷范围，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。

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

A controler is used to monitor the utilization of engine output in prevention of engine stop or stall.

Monitor System

The monitor system contains 2 cameras and 1 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.

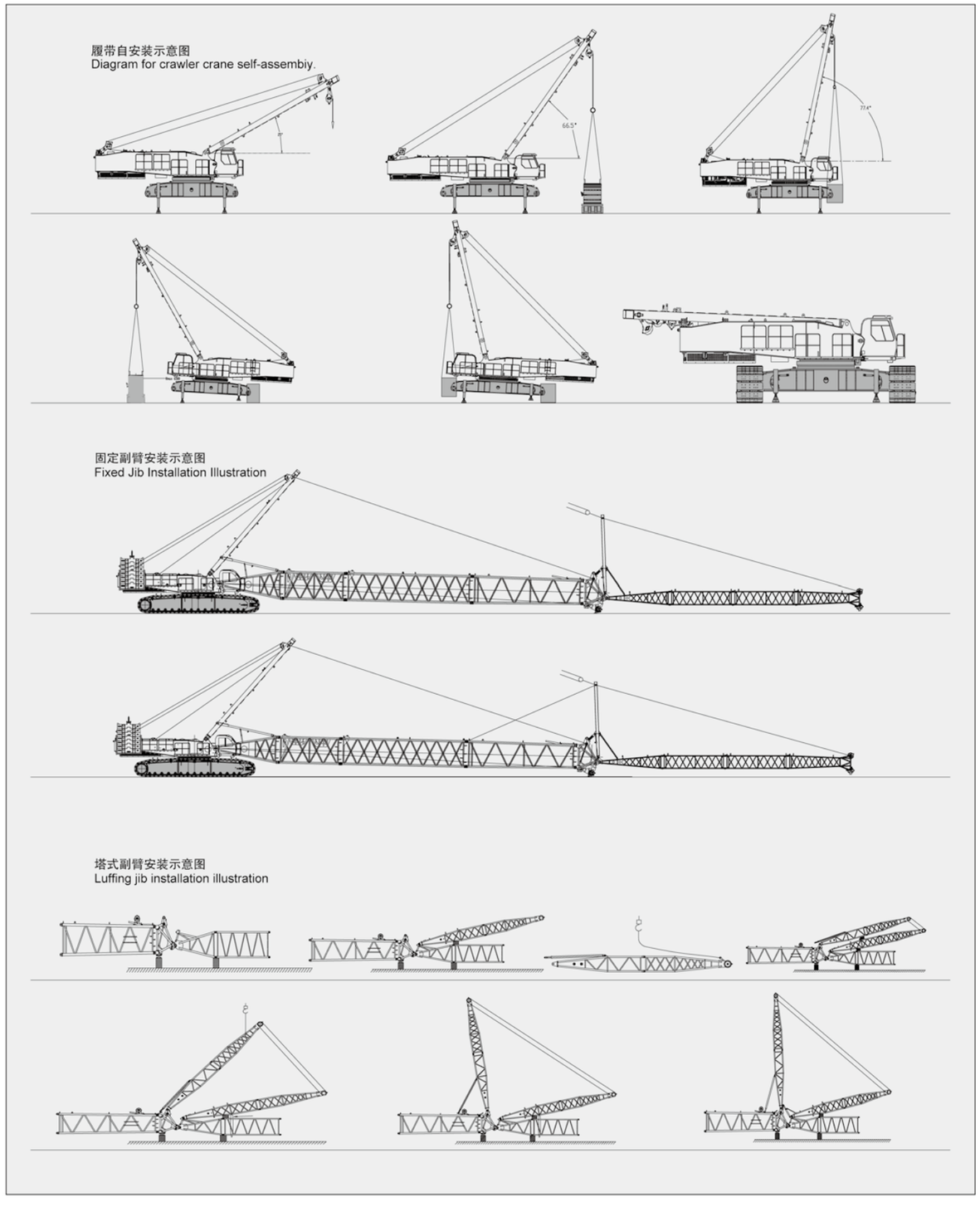
Height Mark Lamp

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.

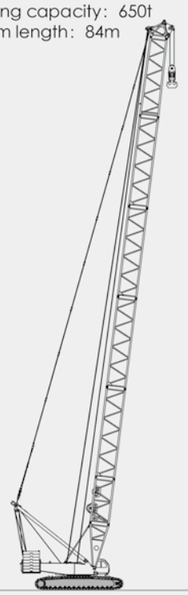
自拆装
Self Assembly & Disassembly



工况示意图
Working Mode Illustration

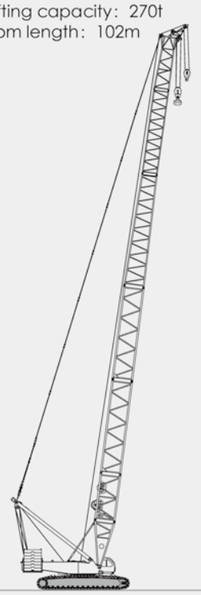
标准工况重型主臂
Standard Mode Heavy Boom

最大起重量Max. lifting capacity：650t
最大臂长Max. boom length：84m



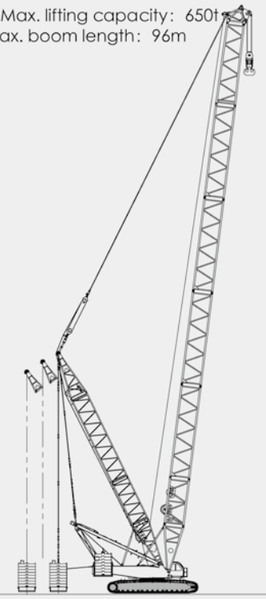
标准工况轻型主臂
Standard Mode Light Boom

最大起重量Max. lifting capacity：270t
最大臂长Max. boom length：102m



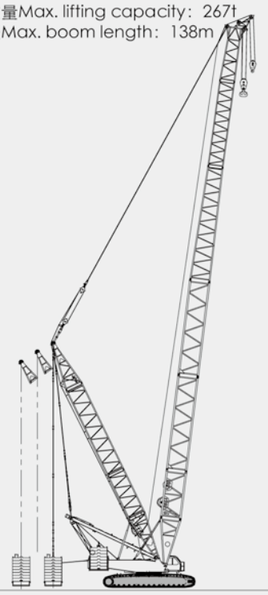
超起工况重型主臂
SL Mode Heavy Boom

最大起重量Max. lifting capacity：650t
最大臂长Max. boom length：96m



超起工况轻型主臂
SL Mode Light Boom

最大起重量Max. lifting capacity：267t
最大臂长Max. boom length：138m

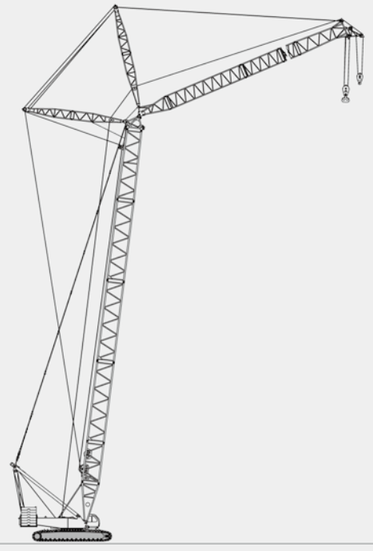


标准工况固定副臂
Standard Mode Fixed Jib

最大起重量Max. lifting capacity：90t
最大臂长组合Max. boom combination：72m+36m

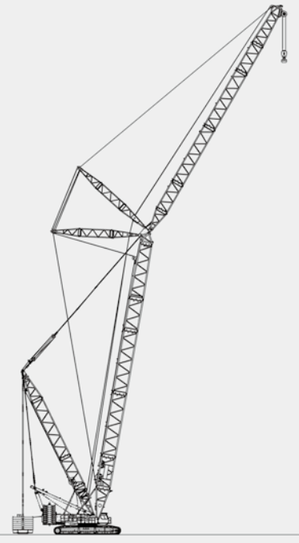
标准工况塔式副臂
Standard Mode Luffing Jib

最大起重量Max. lifting capacity：224t
最大臂长组合Max. boom combination：60m+72m



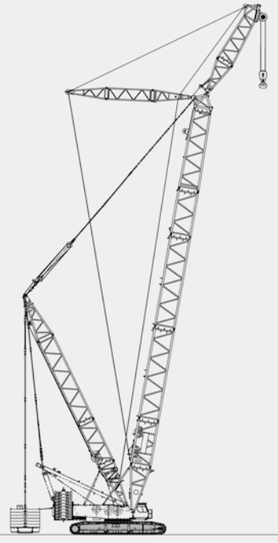
超起工况塔式副臂
SL Mode Luffing Jib

最大起重量Max. lifting capacity：324t
最大臂长组合Max. boom combination：84m+96m



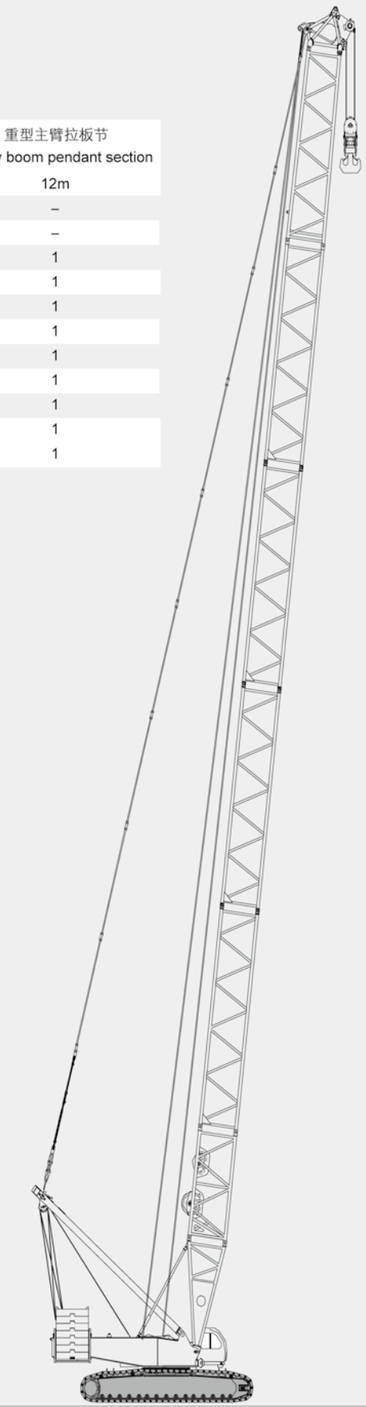
超起工况专用副臂
SL Mode Special Jib

最大起重量Max. lifting capacity：460t
最大臂长组合Max. boom combination：84m+12m

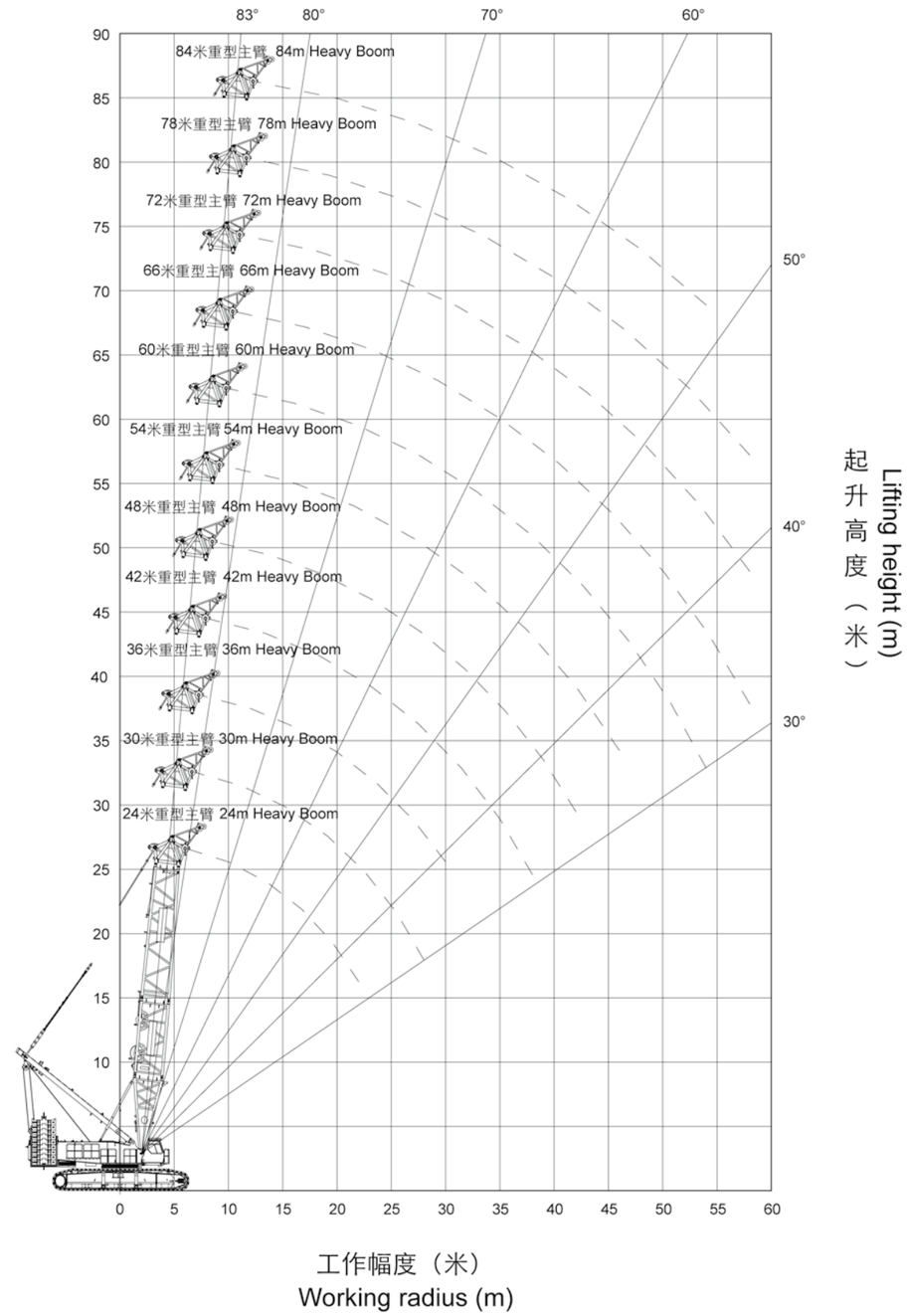


标准工况重型主臂臂节组合/重型主臂
Standard Mode Heavy Boom Combinations/Heavy Boom

主臂长度 Boom length (m)	重型主臂中间节 Heavy boom insert		重型主臂拉板节 Heavy boom pendant section
	6m	12m	12m
24	–	–	–
30	1	–	–
36	–	–	1
42	1	–	1
48	2	–	1
54	1	1	1
60	2	1	1
66	1	2	1
72	2	2	1
78	1	3	1
84	2	3	1



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



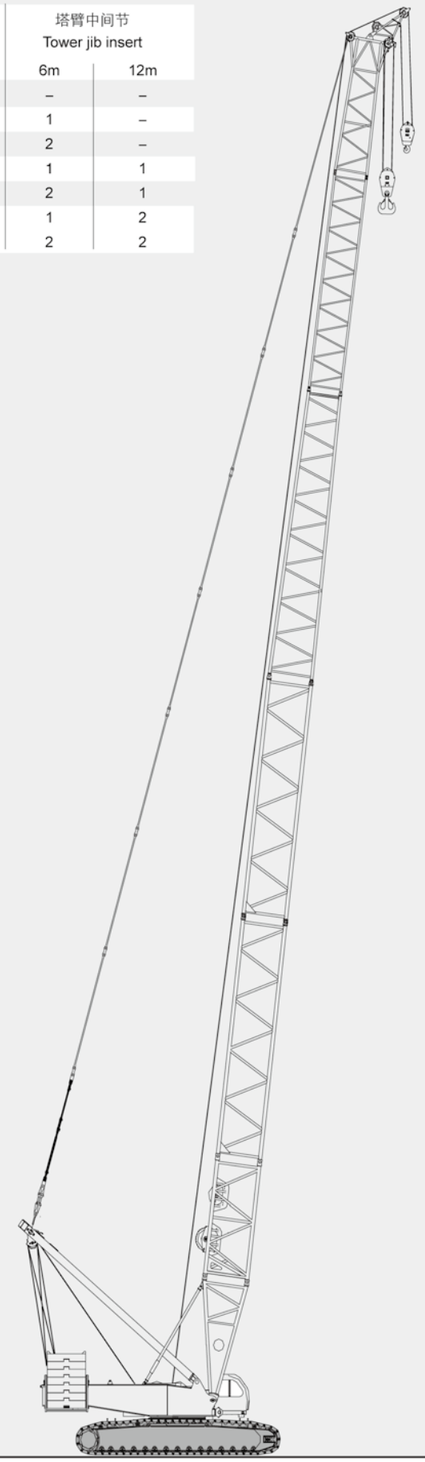
标准工况重型主臂起重性能表
Standard Mode Heavy Boom Lifting Load Chart

200t转台平衡重+60t车身平衡重 200t turntable ballast + 60t car-body ballast

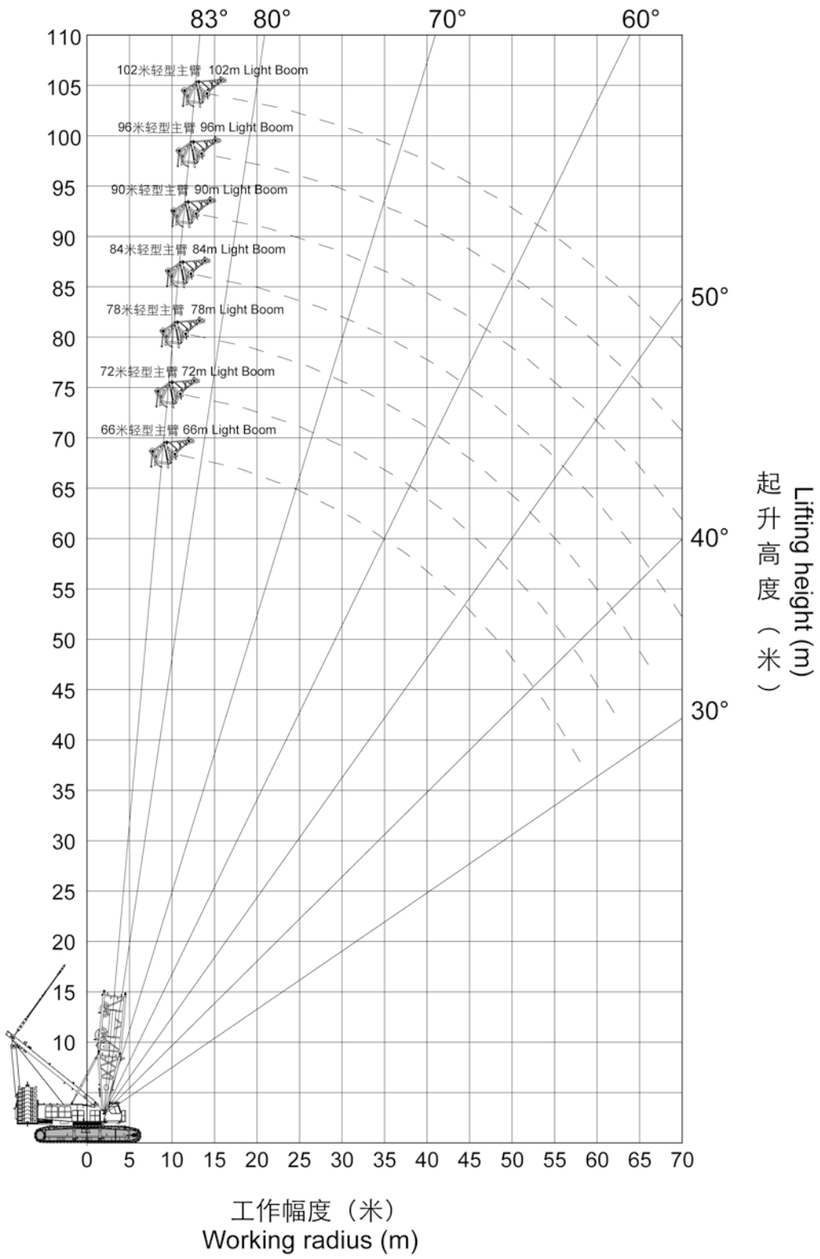
幅度 Radius (m)	臂长 Boom length (m)										
	24	30	36	42	48	54	60	66	72	78	84
6	650.0										
7	615.0	610.0									
8	550.0	545.0	540.0								
9	445.0	440.0	440.0	440.0	435.0						
10	365.0	362.0	361.0	360.0	359.0	358.0					
11	305.0	303.0	302.0	300.0	298.0	297.0	296.0	292.0			
12	267.0	265.0	263.0	261.0	260.0	259.0	259.0	258.0	257.0		
14	210.0	206.0	205.0	203.0	202.0	201.0	201.0	200.0	199.0	198.0	196.0
16	172.0	170.0	168.0	166.0	165.0	164.0	163.0	161.0	160.0	159.0	158.0
18	145.0	142.0	141.0	139.0	138.0	137.0	136.0	135.0	134.0	132.0	131.0
20	125.0	123.0	121.0	120.0	119.0	118.0	117.0	115.0	114.0	112.0	110.0
22	110.0	108.0	106.0	105.0	103.0	102.0	101.0	99.0	98.0	96.0	95.0
24		95.0	94.0	93.0	92.0	91.0	90.0	88.0	87.0	85.0	83.0
26		85.0	84.0	83.0	82.0	81.0	80.0	78.0	77.0	75.0	73.0
28		77.0	75.0	74.0	74.0	73.0	72.0	70.0	69.0	67.0	65.0
30			70.0	69.0	68.0	67.0	66.0	63.0	62.0	60.0	58.0
34				56.0	55.0	54.0	53.0	51.0	50.0	48.0	46.0
38				50.0	49.0	48.0	46.0	43.0	42.0	40.0	38.0
42					41.0	40.0	39.0	36.0	35.0	33.0	31.0
46						32.0	31.0	28.0	27.0	25.0	24.0
50							26.0	25.0	24.0	21.0	19.0
54							21.0	20.0	19.0	17.0	15.0
58								16.0	15.0	13.0	

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

主臂长度 Boom length (m)	重型主臂中间节 Heavy boom insert		塔臂中间节 Tower jib insert	
	6m	12m	6m	12m
66	2	2	–	–
72	2	2	1	–
78	2	2	2	–
84	2	2	1	1
90	2	2	2	1
96	2	2	1	2
102	2	2	2	2



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



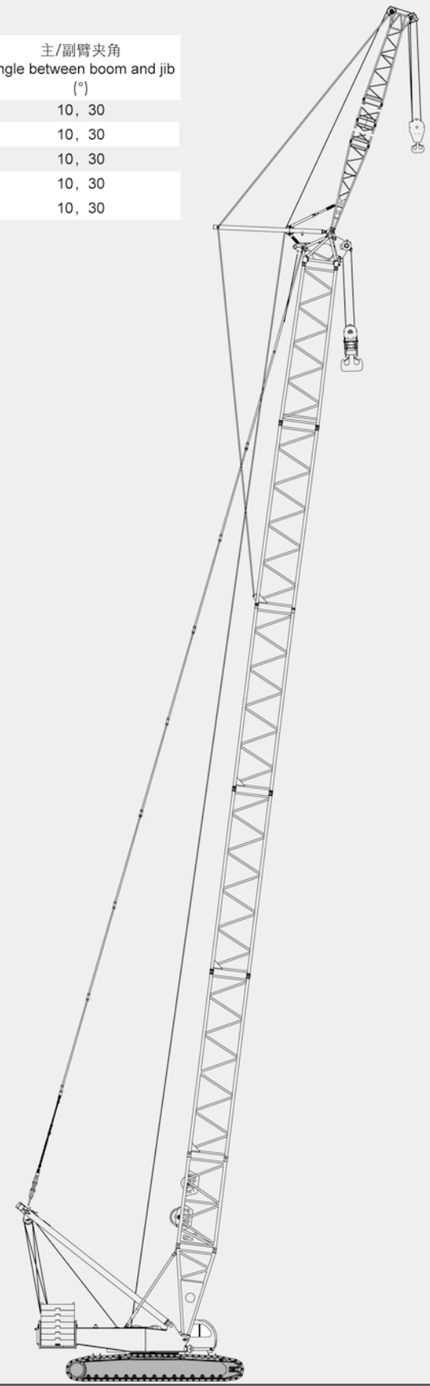
标准工况轻型主臂载荷表
Standard Mode Light Boom Lifting Load Chart

200t转台平衡重+60t车身平衡重 200t turntable ballast + 60t car-body ballast

幅度 Radius (m)	臂长 Boom length (m)						
	66	72	78	84	90	96	102
12	270.0	268.0					
14	212.0	210.0	195.0	170.0			
16	172.0	171.0	170.0	158.0	158.0	142.0	110.0
18	145.0	143.0	141.0	140.0	140.0	132.0	102.0
20	125.0	122.0	122.0	120.0	120.0	118.0	95.0
22	108.0	106.0	105.0	105.0	105.0	103.0	87.0
24	95.0	94.0	93.0	92.0	92.0	91.0	81.0
26	85.0	83.0	82.0	81.0	81.0	80.0	76.0
28	76.0	75.0	73.0	72.0	72.0	71.0	71.0
30	68.0	67.0	66.0	65.0	65.0	64.0	64.0
34	57.0	56.0	55.0	55.0	54.0	53.0	53.0
38	48.0	47.0	46.0	45.0	45.0	44.0	43.0
42	41.0	40.0	39.0	38.0	38.0	37.0	35.0
46	35.0	34.0	33.0	32.0	31.0	30.0	29.0
50	30.0	29.0	29.0	28.0	27.0	26.0	25.0
54	26.0	25.0	25.0	24.0	23.0	22.0	20.0
58	22.0	21.0	21.0	20.0	19.0	18.0	17.0
62		18.0	17.0	16.0	15.0	14.0	13.0
66			14.0	13.0	13.0	12.0	11.0
70				11.0	11.0	10.0	9.0

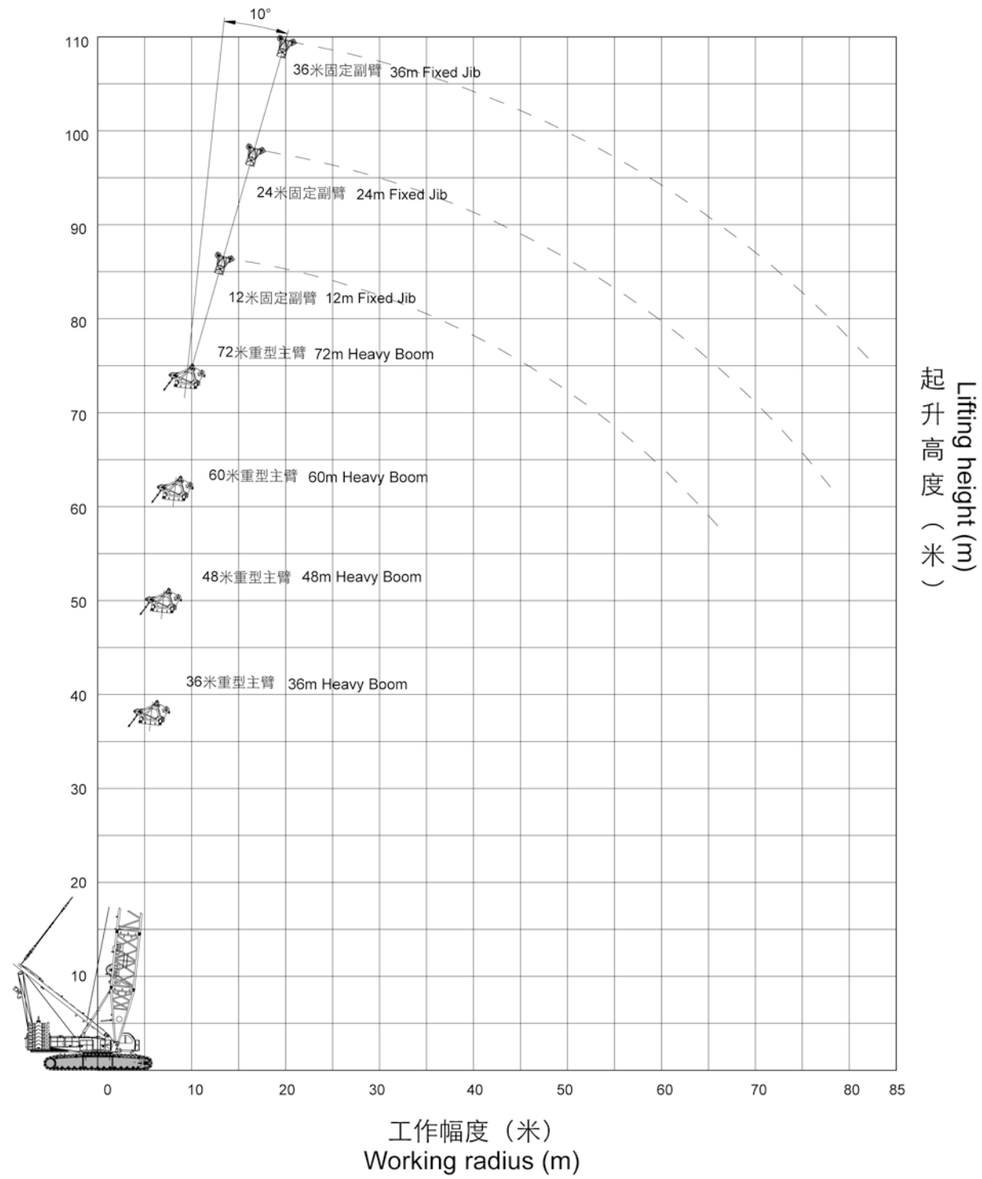
标准工况固定副臂臂节组合/固定副臂
Standard Mode Fixed Jib Combinations/Fixed Jib

副臂长度 Jib length (m)	中间节 Boom insert (m)	主臂长度 Boom length (m)	主/副臂夹角 Angle between boom and jib (°)
12	–	36~72	10，30
18	1	36~72	10，30
24	2	36~72	10，30
30	3	36~72	10，30
36	4	36~72	10，30



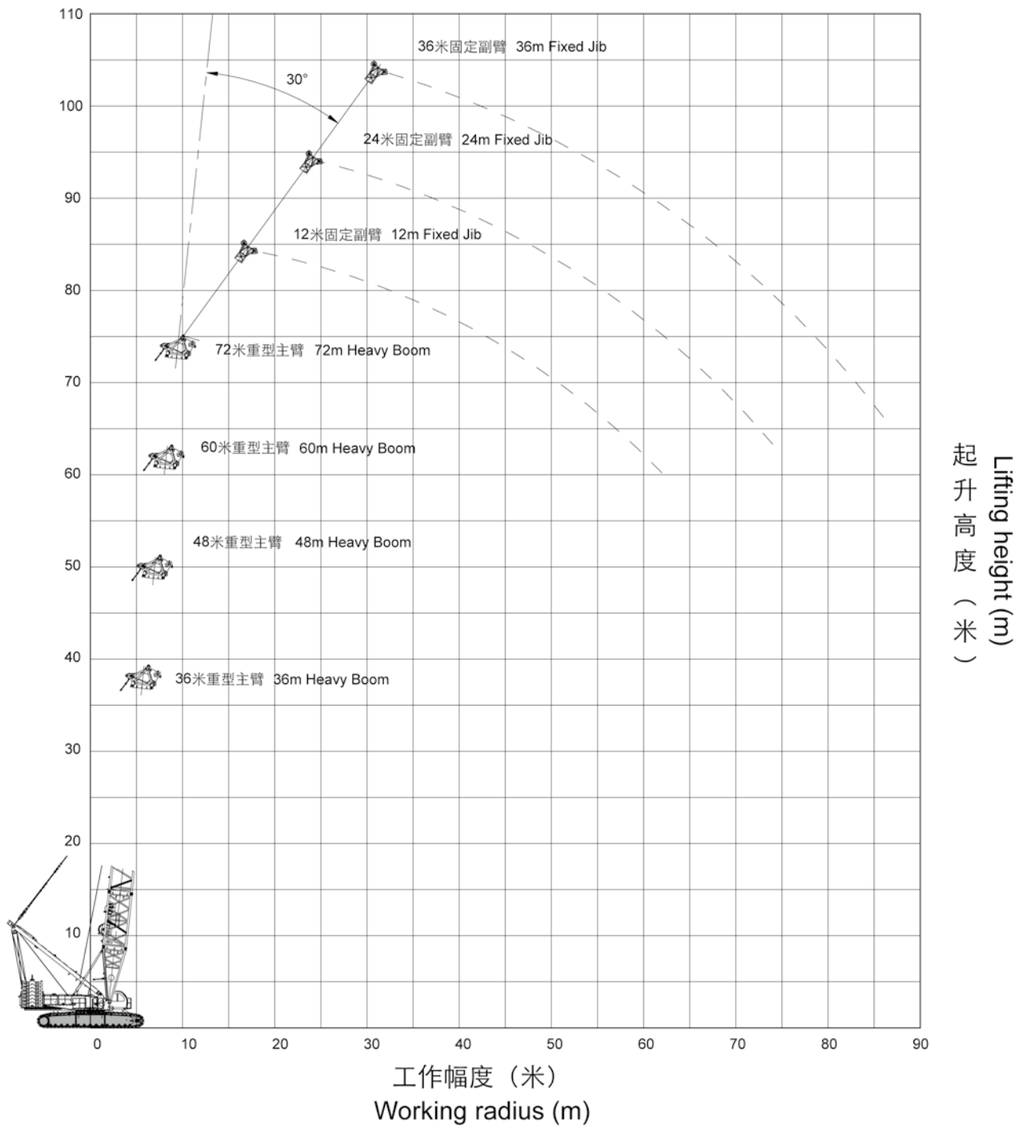
标准工况固定副臂作业范围
Standard Mode Fixed Jib Working Area

固定副臂10°时 Fixed Jib angle at 10°



标准工况固定副臂作业范围
Standard Mode Fixed Jib Working Area

固定副臂30°时 Fixed Jib angle at 30°



标准工况重型主臂+固定副臂载荷表
Standard Mode Heavy Boom + Fixed Jib Lifting Load Chart

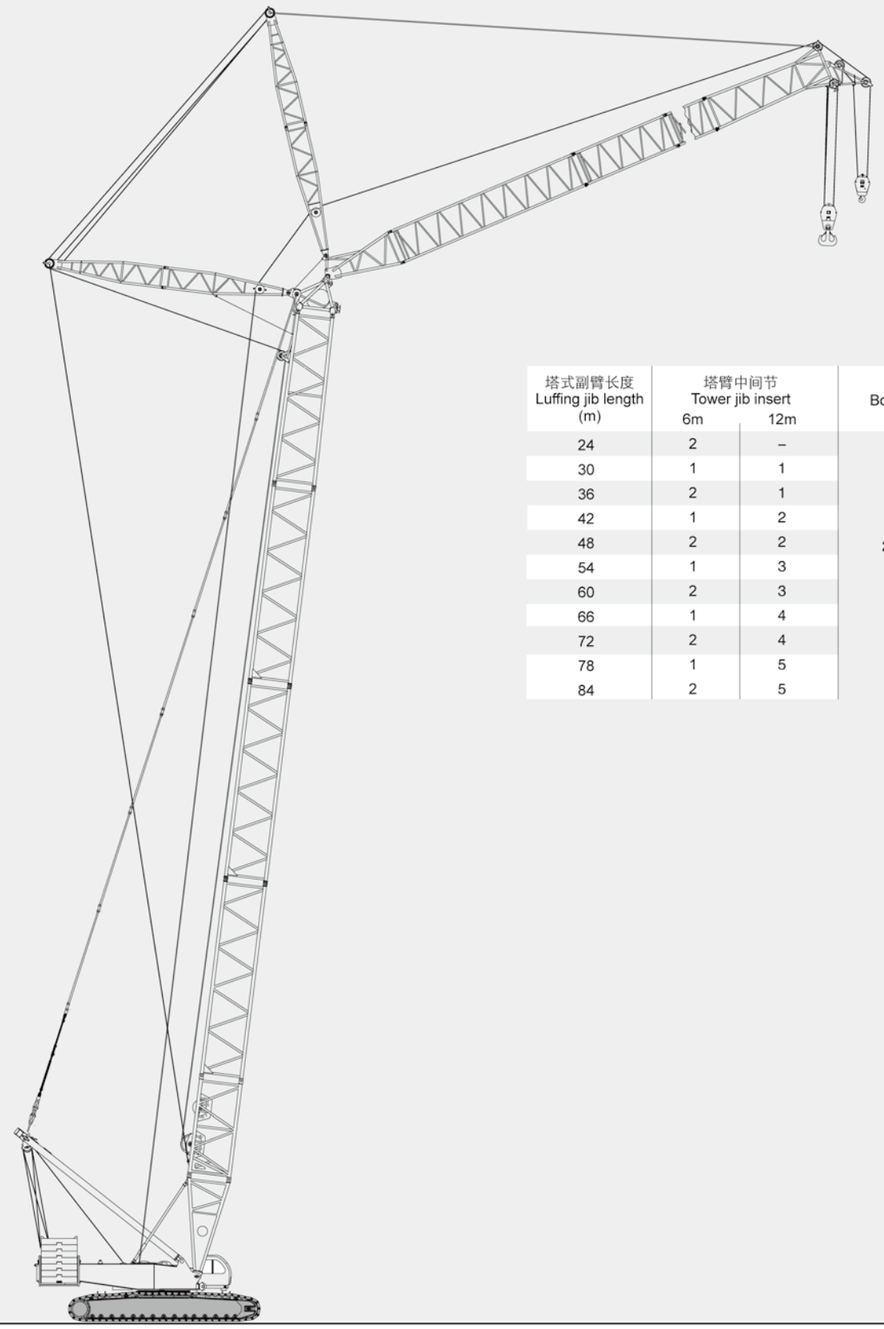
200t转台平衡重+60t车身平衡重 200t turntable ballast+60t car-body ballast

主臂长度 Boom length (m)	主臂36米 Boom length 36m						主臂48米 Boom length 48m					
副臂长度 Jib length (m)	12		24		36		12		24		36	
幅度 Radius (m)	安装角 Offset angle (°)											
	10	30	10	30	10	30	10	30	10	30	10	30
14	90.0											
16	77.0						82.0					
18	64.0	34.0	40.0				74.0					
20	59.0	32.0	36.0				68.0	34.0	40.0			
22	54.0	31.0	33.0		24.0		63.0	33.0	37.0			
24	50.0	30.0	31.0		23.0		58.0	32.0	34.0		24.0	
26	46.0	28.0	28.0	18.0	21.0		54.0	31.0	32.0	18.0	23.0	
28	43.0	27.0	26.0	17.0	19.0		50.0	29.0	30.0	18.0	21.0	
30	41.0	26.0	24.0	16.0	18.0	12.0/32.0	45.0	28.0	28.0	17.0	20.0	
34	36.0	24.0	21.0	15.0	16.0	11	38.0	27.0	24.0	16.0	18.0	11.0
38	33.0	23.0	19.0	14.0	14.0	10	32.0	24.0	22.0	15.0	16.0	11.0
42	30.0		17.0	13.0	12.0	9	28.0	23.0	20.0	14.0	14.0	10.0
46			16.0	12.0	11.0	8.3	23.0	22.0	18.0	13.0	13.0	9.0
50			14.0	11.0	10.0	8	20.0		17.0	12.3.0	12.0	8.3
54			13.0		9.0	7.2	17.0		15.0	12.0	11.0	8.0
58					9.0	7			15.0	11.0	10.0	7.3
62					8.0	6.8			14.0		9.0	7.0
66					7.0				13.0		9.0	7.0
70											8.0	6.0
74											8.0	

标准工况重型主臂+固定副臂载荷表
Standard Mode Heavy Boom + Fixed Jib Lifting Load Chart

主臂长度 Boom length (m)	主臂60米 Boom length 60m						主臂72米 Boom length 72m					
副臂长度 Jib length (m)	12		24		36		12		24		36	
幅度 Radius (m)	安装角 Offset angle (°)											
	10	30	10	30	10	30	10	30	10	30	10	30
16	82.0											
18	82.0						82.0					
20	77.0	36.0	43.0				79.0					
22	69.0	34.0	40.0				68.0	35.0	43.0			
24	61.0	33.0	37.0		24.0		59.0	34.0	40.0			
26	54.0	32.0	35.0		24.0		52.0	33.0	38.0		24.0	
28	48.0	31.0	33.0	18.0	23.0		47.0	32.0	36.0		24.0	
30	44.0	30.0	31.0	17.0	22.0		42.0	31.0	34.0	18.0	23.0	
34	36.0	28.0	28.0	16.0	20.0	12.0/36.0	34.0	30.0	30.0	17.0	21.0	
38	30.0	27.0	24.0	15.0	17.0	11.0	29.0	28.0	28.0	16.0	19.0	11.0
42	26.0	25.0	22.0	14.0	16.0	10.0	23.0	24.0	24.0	15.0	17.0	10.0
46	21.0	22.0	20.0	13.7	14.0	9.0	19.0	20.0	21.0	14.0	16.0	9.7
50	18.0	18.0	19.0	13.0	13.0	8.7	16.0	16.0	18.0	13.5	14.0	9.0
54	15.0	15.0	17.0	12.0	12.0	8.0	13.0	14.0	15.0	13.0	13.0	8.7
58	13.0		14.0	11.9	11.0	7.8	10.0	11.0	12.0	12.5	12.0	8.0
62	11.0		12.0	11.5	10.0	7.2	8.0	9.0	10.0	12.0	11.0	7.8
66			10.0	11.0	10.0	7.0	7.0		8.0	10.0	9.0	7.4
70			9.0		9.0	6.8			7.0	8.0	8.0	7.1
74			7.0		8.0	6.5			5.0	6.0	6.0	7.0
78					7.0	6.0			4.0		5.0	6.6
82					6.0						4.0	5.0
86					5.0							4.0

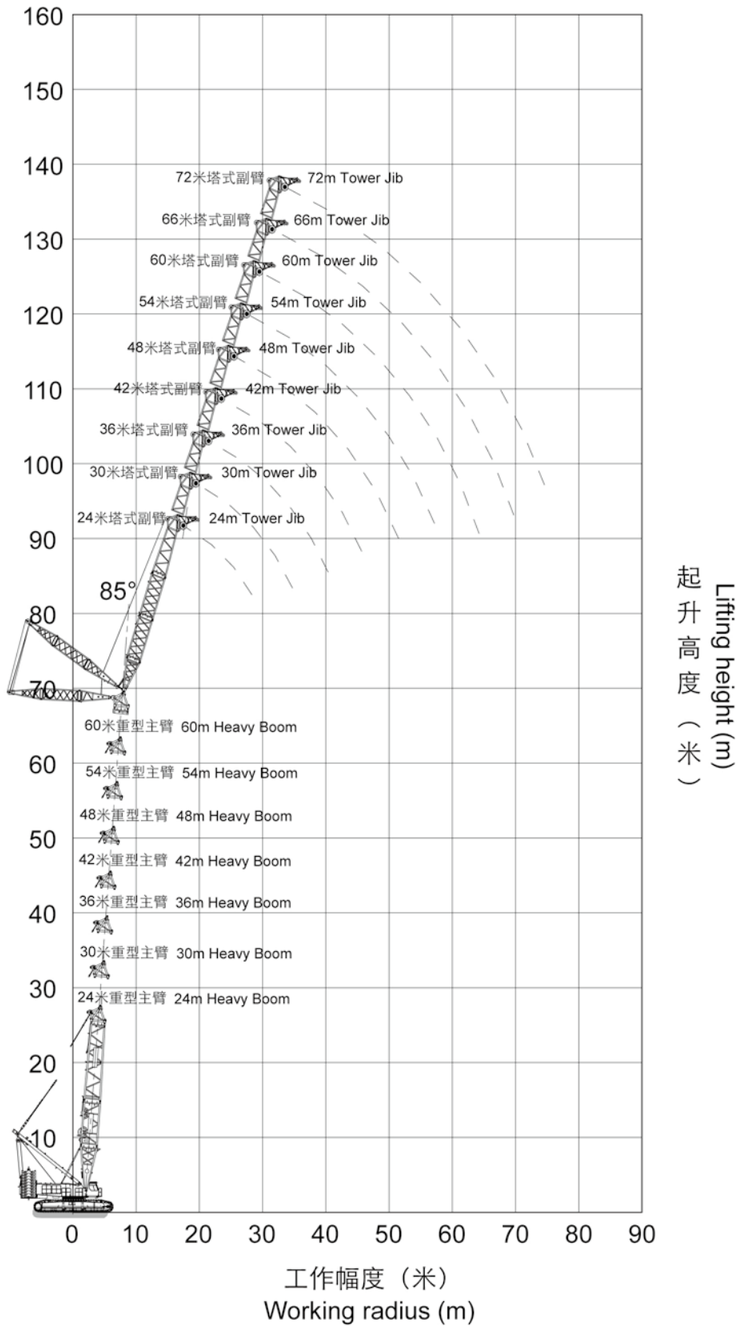
标准工况塔式副臂臂节组合/塔式副臂
Standard Mode Tower Jib Combinations/Tower Jib



塔式副臂长度 Luffing jib length (m)	塔臂中间节 Tower jib insert 6m	塔臂中间节 Tower jib insert 12m	主臂长度 Boom length (m)
24	2	–	24m ~ 66m
30	1	1	
36	2	1	
42	1	2	
48	2	2	
54	1	3	
60	2	3	
66	1	4	
72	2	4	
78	1	5	
84	2	5	

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

主臂仰角85º时 Boom angle 85º



标准工况塔式副臂载荷表
Standard Mode Tower Jib Lifting Load Chart

200t转台平衡重+60t车 身平衡重 200t turntable ballast + 60t car-body ballast

主臂长度 Boom length (m)	主臂30米 Boom length 30m					
塔臂长度 Tower Jib length (m)	24	30	36	42	48	54
幅度 Radius (m)	主臂角度85° Boom angle85 (º)					
14	224.0					
16	185.0	184.0				
18	156.0	155.0	155.0			
20	136.0	135.0	133.0	132.0		
22	119.0	118.0	117.0	116.0	115.0	
24	106.0	105.0	104.0	103.0	103.0	101.0
26	96.0	95.0	94.0	92.0	92.0	91.0
28		86.0	85.0	84.0	83.0	82.0
30		78.0	77.0	76.0	76.0	75.0
34			65.0	64.0	64.0	63.0
38			56.0	55.0	55.0	54.0
42				48.0	48.0	46.0
46					42.0	41.0
50					37.0	36.0
54						32.0

标准工况塔式副臂载荷表
Standard Mode Tower Jib Lifting Load Chart

主臂长度 Boom length (m)	主臂30米 Boom length 30m				
塔臂长度 Tower Jib length (m)	60	66	72	78	84
幅度 Radius (m)	主臂角度 Boom angle (°)				
	85	85	85	85	85
26	90.0				
28	81.0	81.0			
30	73.0	73.0	72.0		
34	62.0	61.0	60.0	59.0	58.0
38	53.0	52.0	51.0	51.0	50.0
42	46.0	45.0	44.0	43.0	42.0
46	40.0	39.0	38.0	38.0	37.0
50	35.0	34.0	33.0	33.0	32.0
54	31.0	30.0	29.0	29.0	28.0
58	28.0	27.0	26.0	26.0	24.0
62	25.0	24.0	23.0	23.0	21.0
66		22.0	20.0	20.0	19.0
70			18.0	17.0	16.0
74			16.0	15.0	14.0
78				14.0	12.0
82					11.0

标准工况塔式副臂载荷表
Standard Mode Tower Jib Lifting Load Chart

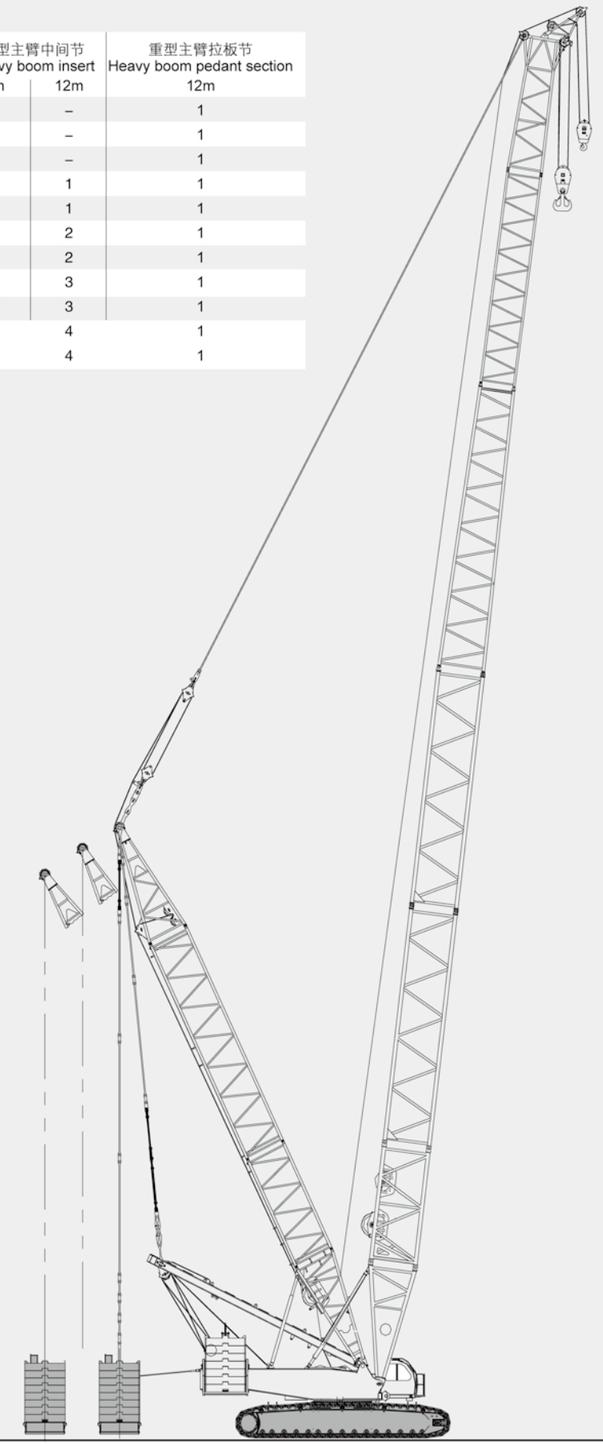
主臂长度 Boom length (m)	主臂60米 Boom length 60m					
塔臂长度 Tower Jib length (m)	24	30	36	42	48	54
幅度 Radius (m)	主臂角度 Boom angle (°)					
	85	85	85	85	85	85
18	150.0					
20	129.0	128.0	127.0			
22	114.0	113.0	112.0	111.0		
24	102.0	100.0	99.0	98.0	97.0	
26	91.0	90.0	89.0	88.0	87.0	86.0
28	82.0	82.0	81.0	79.0	78.0	77.0
30	75.0	74.0	73.0	72.0	71.0	70.0
34		63.0	62.0	61.0	60.0	58.0
38			53.0	52.0	51.0	50.0
42			46.0	45.0	45.0	43.0
46				40.0	39.0	38.0
50					34.0	33.0
54						29.0
58						26.0

标准工况塔式副臂载荷表
Standard Mode Tower Jib Lifting Load Chart

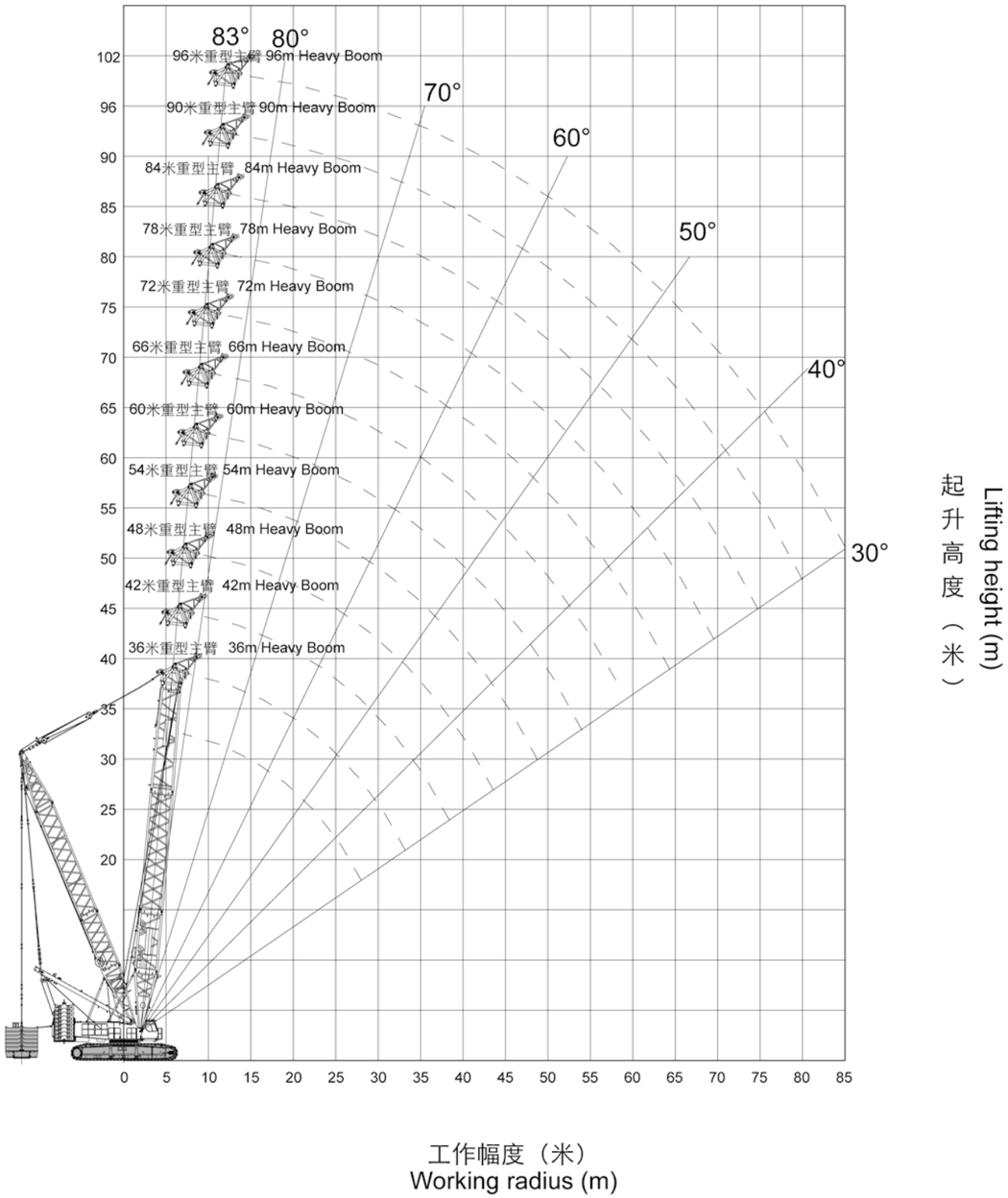
主臂长度 Boom length (m)	主臂60米 Boom length 60m		
塔臂长度 Tower Jib length (m)	60	66	72
幅度 Radius (m)	主臂角度 Boom angle (°)		
	85	85	85
28	77.0		
30	69.0	69.0	
34	58.0	57.0	56.0
38	49.0	49.0	47.0
42	42.0	42.0	40.0
46	37.0	36.0	35.0
50	32.0	32.0	30.0
54	29.0	28.0	26.0
58	25.0	24.0	23.0
62	23.0	22.0	20.0
66		19.0	18.0
70		17.0	15.0
74			13.0

超起工况重型主臂
SL Mode Heavy Boom

臂长 Boom length (m)	重型主臂中间节 Heavy boom insert		重型主臂拉板节 Heavy boom pedant section
	6m	12m	12m
36	–	–	1
42	1	–	1
48	2	–	1
54	1	1	1
60	2	1	1
66	1	2	1
72	2	2	1
78	1	3	1
84	2	3	1
90	1	4	1
96	2	4	1



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

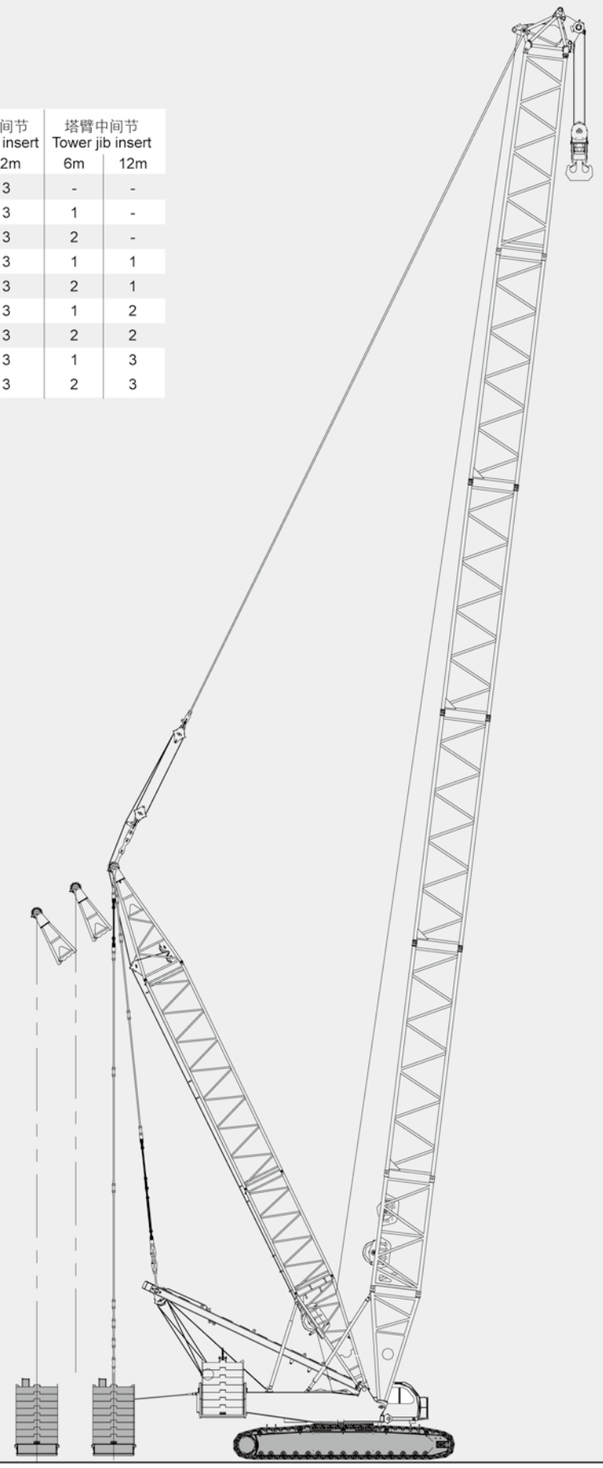


超起工况重型主臂载荷表
SL Mode Heavy Boom Lifting Load Char

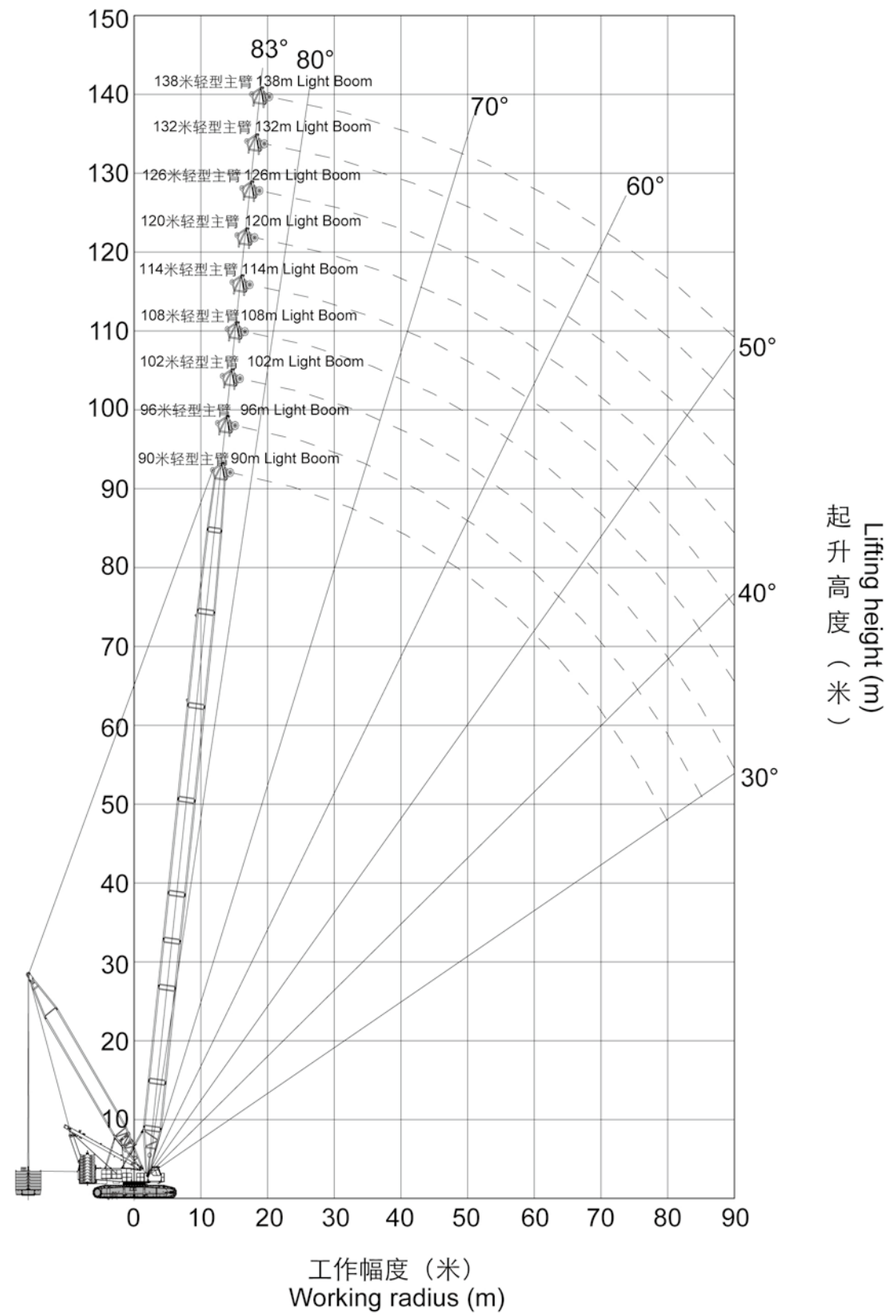
幅度Radius (m)	臂长 Boom Length (m)										
	36	42	48	54	60	66	72	78	84	90	96
8	700.0*										
9	680.0*	650.0*	630.0*								
10	670.0*	640.0*	630.0*	565.0*							
11	660.0	635.0	630.0	565.0	520.0*	450.0*					
12	650.0	630.0	630.0	565.0	520.0	450.0*	405.0*				
14	560.0	560.0	560.0	555.0	520.0	450.0	405.0*	340.0*	292.0*		
16	490.0	490.0	485.0	483.0	475.0	445.0	405.0	340.0*	292.0*	226.0*	192.0*
18	435.0	435.0	430.0	420.0	418.0	410.0	395.0	340.0	292.0*	227.0*	199.0*
20	392.0	390.0	380.0	375.0	373.0	370.0	360.0	332.0	292.0	227.0*	195.0*
22	350.0	350.0	345.0	340.0	335.0	333.0	329.0	320.0	290.0	227.0	193.0*
24	312.0	312.0	312.0	310.0	305.0	304.0	299.0	296.0	280.0	228.0	193.0
26	285.0	285.0	285.0	280.0	278.0	277.0	273.0	271.0	266.0	228.0	192.0
28	255.0	260.0	260.0	258.0	255.0	253.0	250.0	248.0	244.0	223.0	191.0
30	220.0	238.0	238.0	235.0	235.0	233.0	230.0	228.0	225.0	205.0	190.0
34		200.0	205.0	205.0	202.0	200.0	196.0	195.0	193.0	189.0	185.0
38		160.0	173.0	175.0	175.0	173.0	170.0	168.0	166.0	182.0	178.0
42			145.0	153.0	153.0	152.0	150.0	148.0	147.0	158.0	155.0
46				133.0	136.0	136.0	133.0	131.0	129.0	139.0	136.0
50					120.0	122.0	119.0	118.0	116.0	123.0	120.0
54					108.0	109.0	108.0	106.0	105.0	110.0	107.0
58						96.0	98.0	96.0	95.0	98.0	96.0
62							87.0	87.0	86.0	88.0	86.0
66								78.0	77.0	80.0	77.0
70									70.0	72.0	69.0
74										65.0	63.0
78										59.0	57.0
82											51.0

超起工况轻型主臂
SL Mode Light Boom

臂长 Boom length (m)	重型主臂中间节 Heavy boom insert		塔臂中间节 Tower jib insert	
	6m	12m	6m	12m
90	2	3	-	-
96	2	3	1	-
102	2	3	2	-
108	2	3	1	1
114	2	3	2	1
120	2	3	1	2
126	2	3	2	2
132	2	3	1	3
138	2	3	2	3



超起工况轻型主臂作业范围
SL Mode Light Boom Working Area

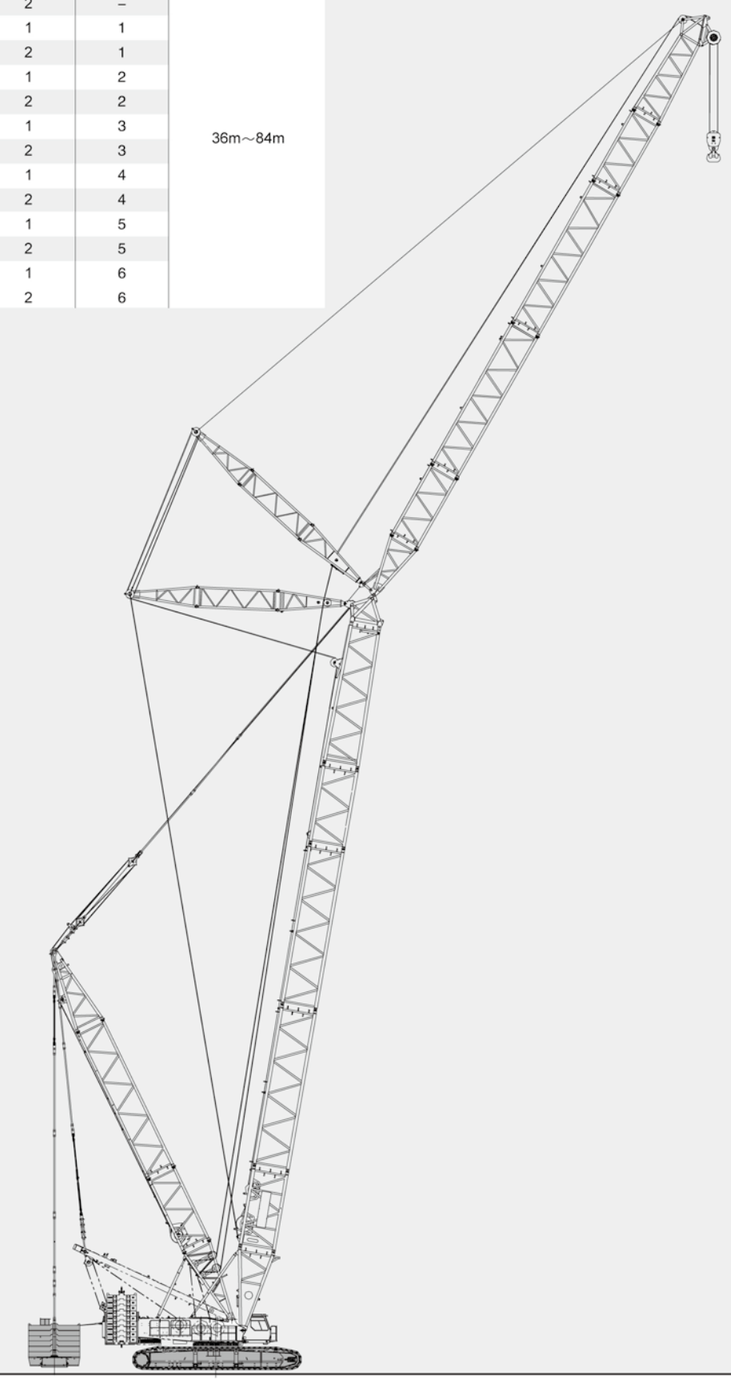


超起工况轻型主臂载荷表
SL Mode Light Boom Lifting Load Chart

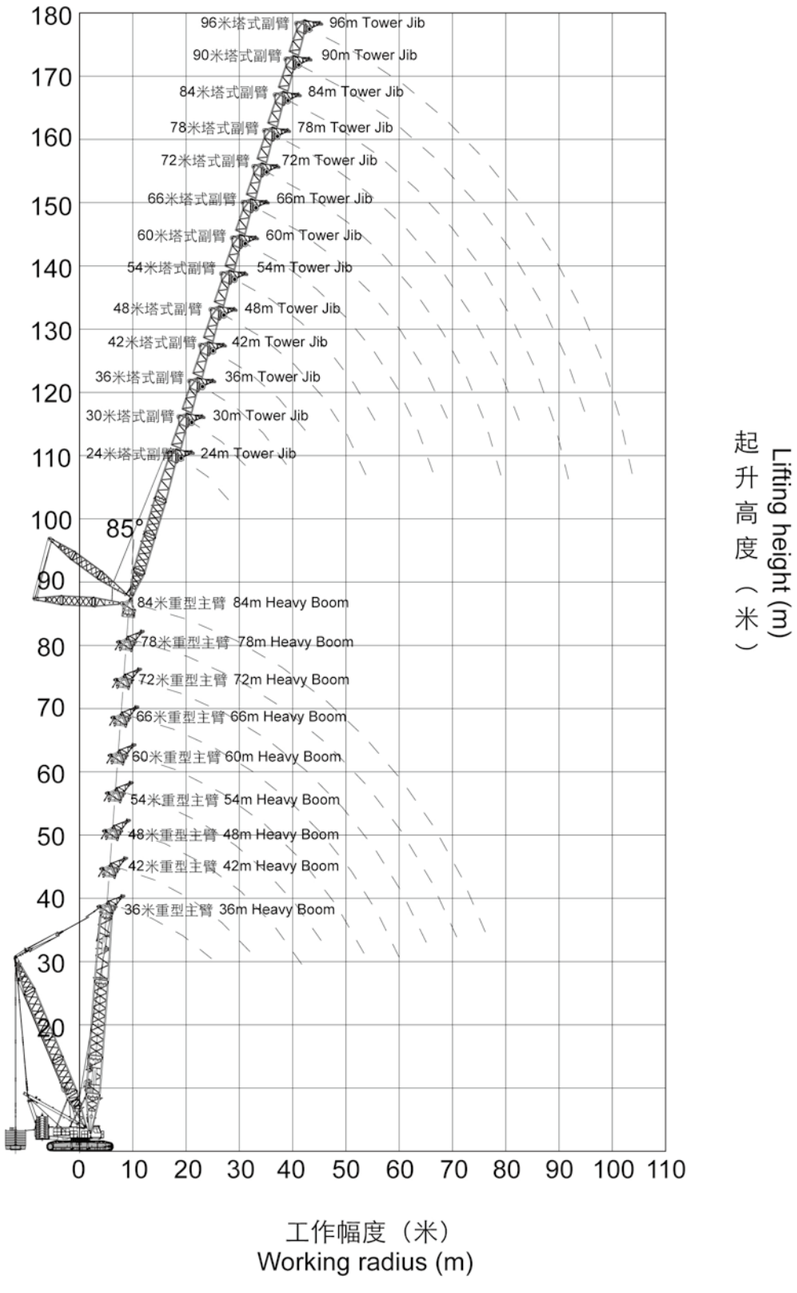
幅度Radius (m)	臂长 Boom Length (m)								
	90	96	102	108	114	120	126	132	138
16	*267.0								
18	*267.0	*228.0	*192.0	*158.0					
20	*265.0	*227.0	*190.0	*156.0	*139.0	*116.0	*100.0		
22	260.0	*225.0	*187.0	*153.0	*137.0	*116.0	*99.0	*82.0	
24	253.0	221.0	*185.0	*150.0	*136.0	*115.0	*99.0	*81.0	*69.0
26	248.0	218.0	*183.0	*146.0	*133.0	*114.0	*98.0	*81.0	*69.0
28	241.0	214.0	181.0	*143.0	*131.0	*114.0	*97.0	*80.0	*68.0
30	226.0	209.0	179.0	*140.0	*129.0	*113.0	*96.0	*79.0	*67.0
34	195.0	192.0	168.0	133.0	*126.0	*115.0	*95.0	*78.0	*66.0
38	170.0	176.0	156.0	128.0	122.0	*112.0	*93.0	*76.0	*64.0
42	151.0	156.0	144.0	123.0	116.0	108.0	*88.0	*74.0	*63.0
46	134.0	139.0	133.0	116.0	112.0	104.0	*87.0	*73.0	*61.0
50	120.0	124.0	123.0	111.0	106.0	100.0	84.0	*70.0	*54.0
54	108.0	112.0	112.0	105.0	102.0	97.0	77.0	*63.0	*48.0
58	97.0	102.0	102.0	100.0	98.0	85.0	69.0	*53.0	*42.0
62	88.0	93.0	93.0	92.0	91.0	74.0	62.0	*47.0	*36.0
66	80.0	86.0	85.0	84.0	76.0	64.0	50.0	*42.0	*31.0
70	73.0	72.0	71.0	70.0	66.0	52.0	*42.0	*34.0	*21.0
74	67.0	65.0	64.0	64.0	54.0	44.0	*34.0	*22.0	*15.0
78	61.0	59.0	59.0	58.0	45.0	*36.0	*22.0	*16.0	*9.0
82		61.0	53.0	50.0	38.0	*29.0	*16.0	*11.0	
86			49.0	43.0	31.0	*18.0	*11.0		
90			50.0	35.0	*20.0	*13.0	*7.0		
94				46.0	*15.0	*9.0			

超起工况塔式副臂
SL Mode Jib

塔臂长度 Luffing jib length (m)	塔臂中间节 Jib insert		主臂长度 Boom length
	6m	12m	
24	2	–	36m～84m
30	1	1	
36	2	1	
42	1	2	
48	2	2	
54	1	3	
60	2	3	
66	1	4	
72	2	4	
78	1	5	
84	2	5	
90	1	6	
96	2	6	



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



超起工况塔式副臂载荷表
SL Mode Tower Jib Lifting Load Chart

主臂长度 Boom length (m)	主臂36米 Boom length 36m					
塔臂长度 Tower Jib length (m)	24					
幅度 Radius (m)	主臂角度85º 超起平衡重重量 SL counterweight weight with boom angle at 85° (t)					
	0	50	100	150	200	250
16	167.0	222.0	277.0	324.0	324.0	324.0
18	147.0	195.0	245.0	295.0	324.0	324.0
20	130.0	169.0	218.0	264.0	308.0	324.0
22	117.0	150.0	192.0	234.0	277.0	292.0
24	105.0	133.0	171.0	209.0	248.0	259.0
26	95.0	119.0	154.0	190.0	224.0	231.0
28	87.0	109.0	140.0	172.0	196.0	196.0

主臂长度 Boom length (m)	主臂84米 Boom length 84m			
塔臂长度 Tower Jib length (m)	36			
幅度 Radius (m)	主臂角度85º 超起平衡重重量 SL counterweight weight with boom angle at 85° (t)			
	0	50	100	150
24	77.0	112.0	112.0	113.0
26	70.0	102.0	109.0	110.0
28	64.0	94.0	106.0	106.0
30	59.0	87.0	103.0	103.0
34	50.0	75.0	98.0	98.0
38	42.0	65.0	89.0	93.0
42	36.0	58.	78.0	89.0

超起工况塔式副臂载荷表
SL Mode Tower Jib Lifting Load Chart

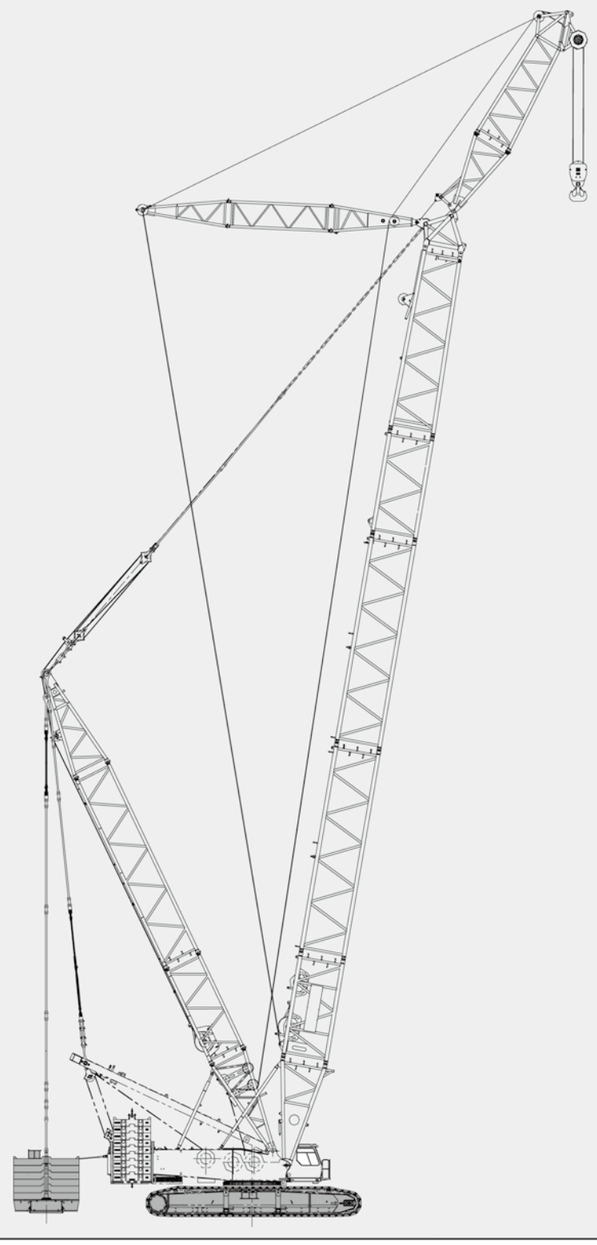
主臂长度 Boom length (m)	主臂36米 Boom length 36m				
塔臂长度 Tower Jib length (m)	96				
幅度 Radius (m)	主臂角度85º 超起平衡重重量 SL counterweight weight with boom angle at 85° (t)				
	0	50	100	150	200
38	38.0	46.0	46.0	47.0	52.0
42	31.0	45.0	45.0	46.0	49.0
46	26.0	44.0	44.0	44.0	47.0
50	21.0	38.0	42.0	43.0	45.0
54	17.0	33.0	41.0	41.0	43.0
58	13.0	28.0	40.0	40.0	42.0
62	11.0	24.0	39.0	39.0	41.0
66	9.0	21.0	34.0	38.0	38.0
70	7.0	18.0	30.0	35.0	35.0
74	6.0	15.0	26.0	33.0	33.0
78		13.0	24.0	30.0	30.0
82		11.0	21.0	24.0	24.0
86		9.0	18.0	21.0	21.0
90		8.0	16.0	19.0	19.0
94		6.0	13.0	17.0	17.0
98		5.0	12.0	14.0	14.0

超起工况塔式副臂载荷表
SL Mode Tower Jib Lifting Load Chart

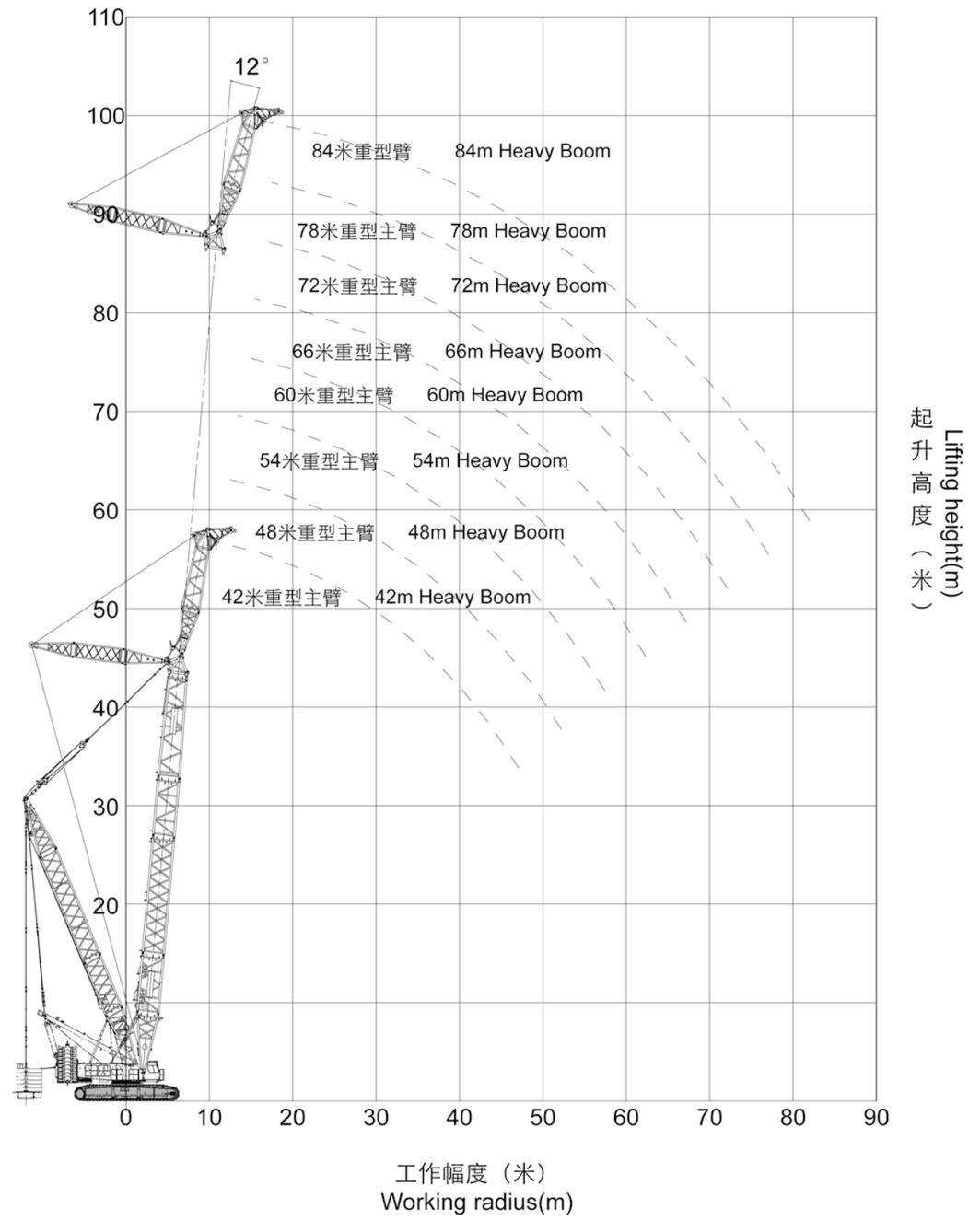
主臂长度 Boom length (m)	主臂84米 Boom length 84m			
塔臂长度 Tower Jib length (m)	96			
幅度 Radius (m)	主臂角度85º 超起平衡重重量 SL counterweight weight with boom angle at 85° (t)			
	0	50	100	150
42	19.0	28.0	28.0	29.0
46	15.0	28.0	28.0	29.0
50	11.0	28.0	28.0	28.0
54	9.0	23.0	27.0	27.0
58	7.0	19.0	26.0	26.0
62	5.0	16.0	25.0	25.0
66		13.0	24.0	25.0
70		11.0	24.0	24.0
74		9.0	20.0	23.0
78		8.0	17.0	22.0
82		6.0	14.0	21.0
86		5.0	12.0	20.0
90			11.0	19.0
94			9.0	17.0
98			8.0	15.0
102			7.0	13.0

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 Jib length (m)	组成臂节 Jib section		主臂长度 Boom length
	塔式副臂4.5m底节臂 4.5m tower jib butt	塔臂7.5m顶节臂 7.5m tower jib top	
12	1	1	42m～84m

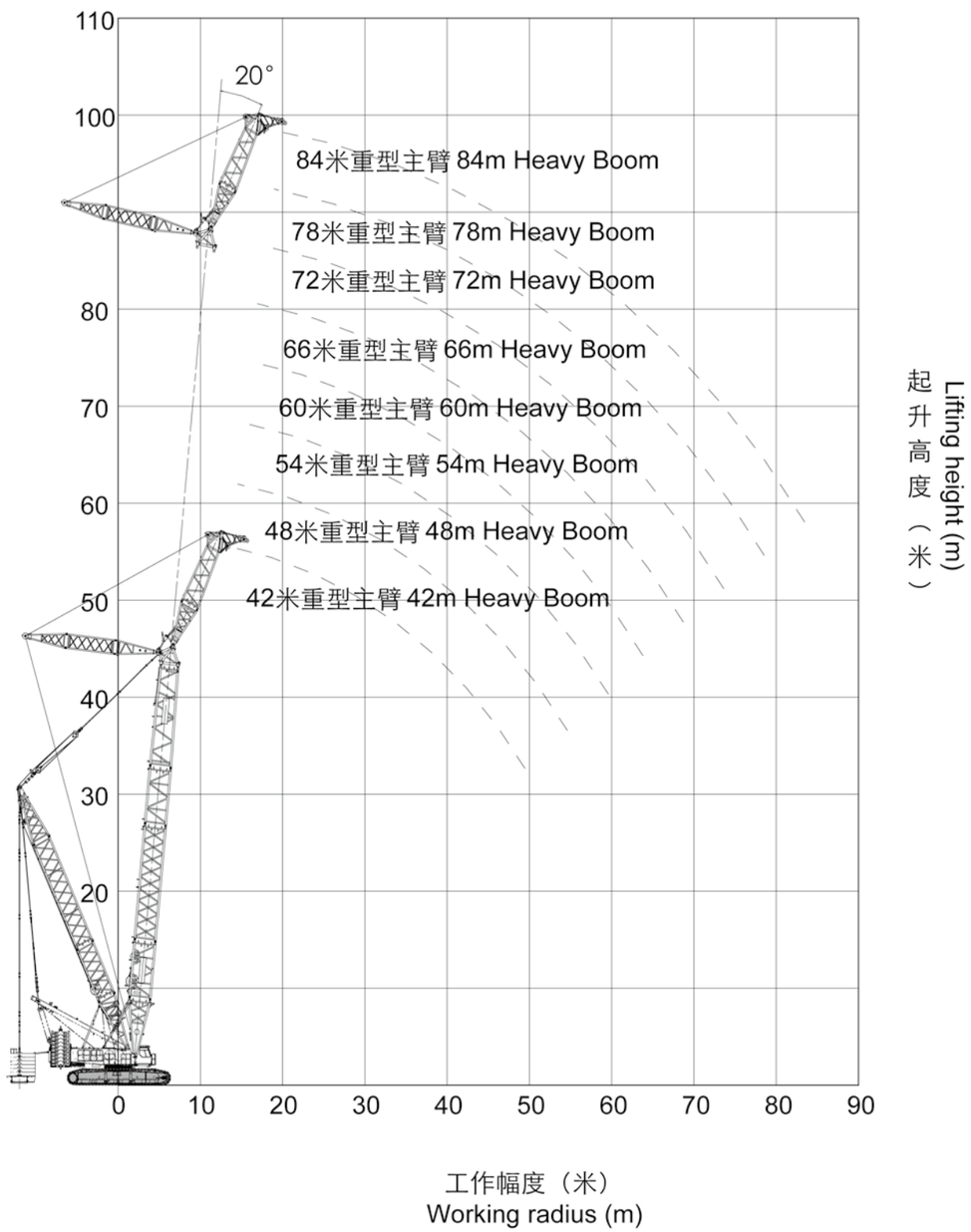


超起工况专用副臂作业范围
SL Mode Special Jib Working Area



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

主副臂夹角20°时 Special Jib angle at 20°



超起工况专用副臂起重性能表
SL Mode Special Jib Lifting Load Chart

主臂长度 Boom length (m)	主臂84米 Boom length 84m						
专用副臂长度 Special jib length (m)	12						
幅度 Radius (m)	副臂安装角12度 Jib angle 12 (°)						
	0t	50t	100t	150t	200t	250t	300t
16	161.0	202.0	242.0	259.0	259.0	259.0	*259.0
18	137.0	174.0	209.0	246.0	263.0	263.0	263.0
20	120.0	152.0	184.0	216.0	249.0	266.0	266.0
22	103.0	132.0	163.0	192.0	221.0	251.0	268.0
24	90.0	117.0	144.0	171.0	199.0	226.0	253.0
26	78.0	103.0	128.0	154.0	180.0	205.0	230.0
28	68.0	92.0	116.0	139.0	163.0	186.0	210.0
30	59.0	82.0	104.0	126.0	148.0	170.0	192.0
34	45.0	65.0	85.0	104.0	124.0	144.0	163.0
38	34.0	52.0	69.0	87.0	105.0	123.0	140.0
42	25.0	41.0	57.0	73.0	89.0	105.0	121.0
46	17.0	31.0	46.0	61.0	75.0	90.0	105.0
50	11.0	24.0	37.0	51.0	64.0	78.0	91.0
54		17.0	29.0				80.0
58		11.0	23.0				70.0
62							61.0
66							53.0
70							46.0
74							40.0
78							34.0
82							29.0

超起工况专用副臂起重性能表
SL Mode Special Jib Lifting Load Chart

主臂长度 Boom length (m)	主臂84米 Boom length 84m						
副臂长度 Jib length (m)	12						
幅度 Radius (m)	副臂安装角20度 Jib angle 20 (°)						
	0t	50t	100t	150t	200t	250t	300t
18	142.0	206.0	245.0	245.0	245.0	251.0	251.0
20	123.0	178.0	213.0	250.0	251.0	255.0	255.0
22	106.0	155.0	187.0	219.0	252.0	254.0	258.0
24	92.0	136.0	166.0	195.0	225.0	229.0	256.0
26	81.0	121.0	147.0	174.0	202.0	208.0	233.0
28	71.0	106.0	131.0	157.0	183.0	189.0	212.0
30	61.0	94.0	119.0	142.0	166.0	172.0	195.0
34	47.0	84.0	106.0	128.0	151.0	146.0	165.0
38	35.0	67.0	87.0	106.0	126.0	124.0	142.0
42	26.0	53.0	71.0	89.0	106.0	106.0	123.0
46	18.0	42.0	59.0	74.0	90.0	91.0	106.0
50	11.0	32.0	47.0	62.0	77.0	79.0	92.0
54		25.0	38.0	52.0	65.0	68.0	81.0
58						59.0	70.0
62						51.0	62.0
66						43.0	54.0
70						37.0	47.0
74						31.0	40.0
78						26.0	35.0
82						21.0	29.0

载荷表说明：

- 载荷表中额定起重量，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；
- 载荷表中额定起重量包括吊钩、钢丝绳、和其它所有吊具的重量；
- 载荷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；
- 载荷表中起重量为带上车全配重和下车全配重的起重量；
- 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、50t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30t，性能载荷表中的额定起重量小于30t时按性能表起吊。

Notes on Lifting Load Chart:

- 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 counterweight and carrier counterweight.
- 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, 50t capacity hook block and slings.
- The max. rated lifting load for single top is 30t (include the weight of hook block, slings and hoist wire rope), if rated lifting load in above tables is less than 30t, load lifting is according to the table.

备忘录
Note

Mo Tu We Th Fr Sa Su

Date /

Address

Name:

Address:

Tel:

Handy phone:

Name:

Address:

Tel:

Handy phone:

施工实例
Case