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XGC400履带起重机
XGC400 CRAWLER CRANE

徐工集团工程机械股份有限公司
XCMG CONSTRUCTION MACHINERY CO.,LTD.

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CONTACT

XGC400 履带起重机
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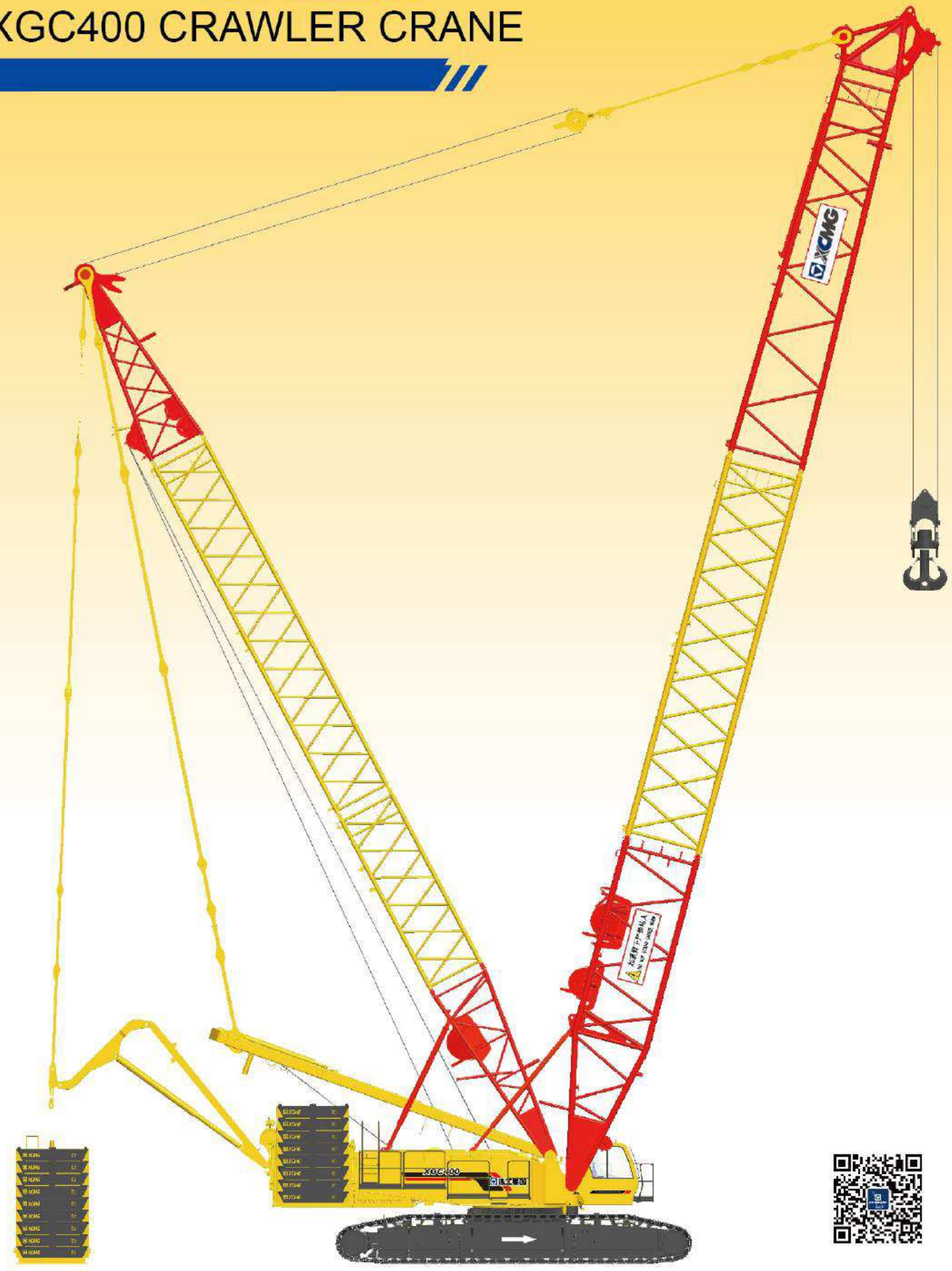

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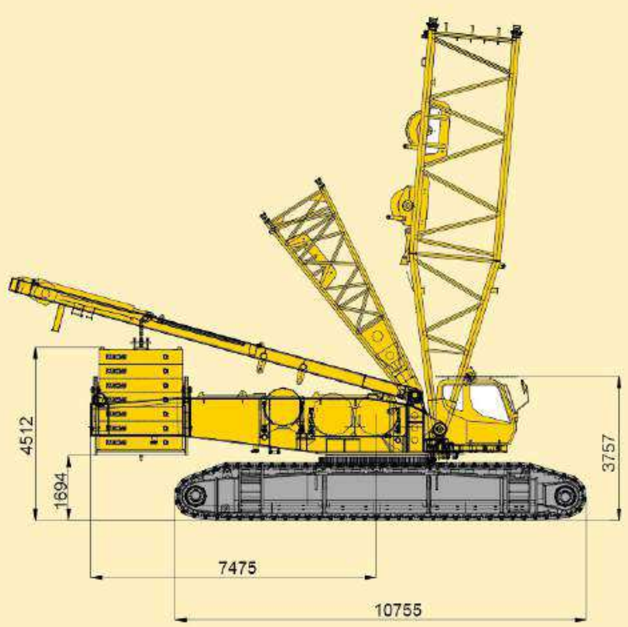
Courtesy of CraneMarket.com

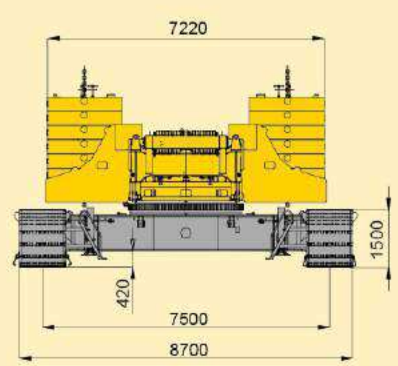
目　录 CONTENTS

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

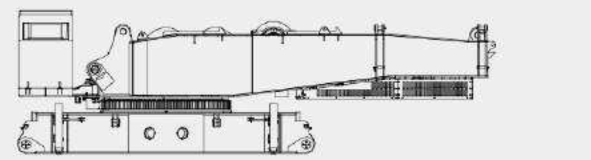
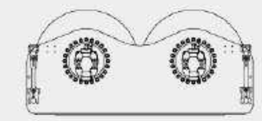
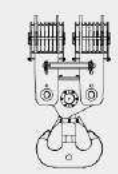
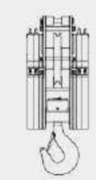
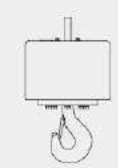
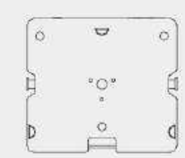
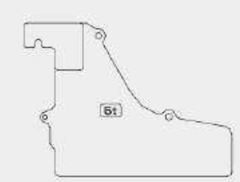
项目 Items			单位 Unit	数值 Data
最大额定起重量 Max. lifting capacity	标准工况 Standard mode	重型主臂Heavy boom	t	400
		轻型主臂Light boom	t	185
		塔式副臂Tower jib	t	148.9
		风电专用副臂	t	116
	超起工况 SL mode	重型主臂Heavy boom	t	400
		轻型主臂Light boom	t	185
		塔式副臂Tower jib	t	185
		风电专用副臂	t	116
主臂长度Boom length			m	24～96
主臂变幅角度Boom luffing angle			°	-3～85°
塔式副臂长度Tower jib length			m	24～84
起升机构最大单绳速度（空载、第六层） Winch max. single line speed(no load,at 6th layer)			m/min	130
主臂变幅机构最大单绳速度（空载、第六层） Boom luffing gear max. single line speed(no load,at 6st layer)			m/min	2×51
钢丝绳直径Wire rope diam.			mm	28
最大单绳拉力Max rope single line pull			t	16.4
回转速度Slewing speed			r/min	1.16
行驶速度Travel speed			km/h	0.9
爬坡度Grade ability				30%
平均接地比压Mean ground pressure			MPa	0.146
发动机功率Engine output power			kW	298
整机重量（24m重型主臂、400t吊钩） Total vehicle weight (24m heavy boom, 500t capacity hook block)			t	345
运输状态单件最大质量 Max. weight of single unit in travel configuration			t	46
运输状态单件(转台)最大尺寸（长×宽×高） Max. dimension of single unit (turntable) in travel configuration (L×W×H)			m	11.1×3×3.38

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.





主要零部件
Main Parts

	名称	数量
	主机 Basic machine	×1
	长 L	11095mm
	宽 W	2995mm
	高 H	3337mm
	重量 Weight	46000kg
	主起升卷扬及钢丝绳 Machine	×1
	长 L	2410mm
	宽 W	1824mm
	高 H	1134mm
	重量 Weight	9500kg
	桅杆组件 Mast	×1
	长 L	11035mm
	宽 W	2210mm
	高 H	1150mm
	重量 Weight	10100kg
	400t吊钩 Hook block	×1
	长 L	1672mm
	宽 W	915mm
	高 H	3083mm
	重量 Weight	6190kg
	50t吊钩 Hook block	×1
	长 L	755mm
	宽 W	750mm
	高 H	1914mm
	重量 Weight	2415kg
	16t吊钩(选配) Hook block(Optional)	×1
	长 L	714mm
	宽 W	714mm
	高 H	1235mm
	重量 Weight	0.878t
	平衡重块 Ballast slab	×34
	长 L	2180mm
	宽 W	1958mm
	高 H	435mm
	重量 Weight	10000kg
	上车平衡重箱 Superstructure Ballast box	×2
	长 L	2540mm
	宽 W	2490mm
	高 H	1890mm
	重量 Weight	5000kg

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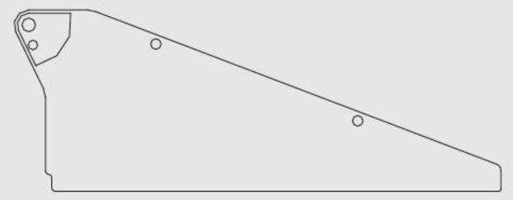
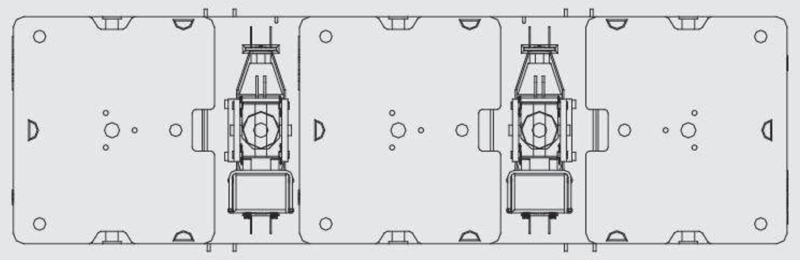
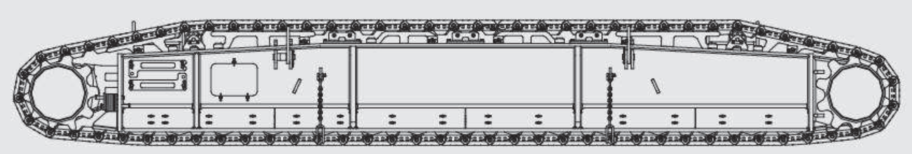
主要零部件
Main Parts



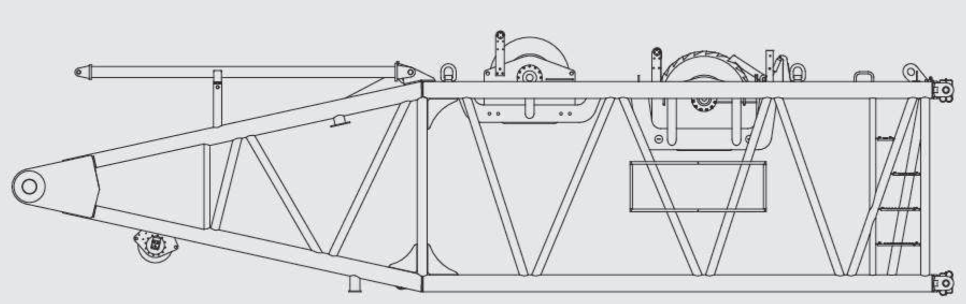
车身平衡重箱 Car-body ballast box	×2
长 L	2325mm
宽 W	2400mm
高 H	855mm
重量 Weight	1200kg



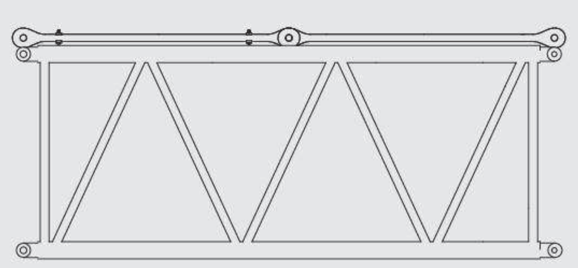
超起平衡重托盘 Ballast slab	×1
长 L	7500mm
宽 W	2180mm
高 H	3905mm
重量 Weight	10000kg



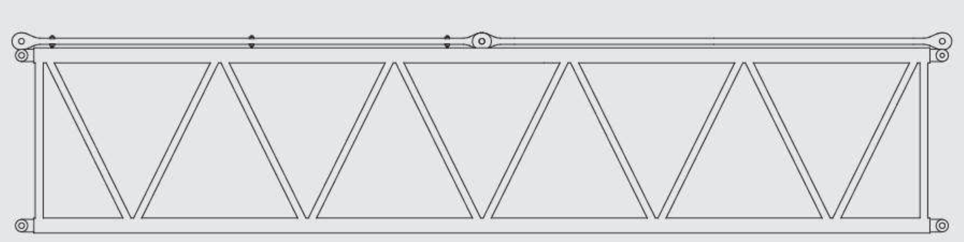
履带总成 Crawler	×2
长 L	10705mm
宽 W	1200mm
高 H	1500mm
重量 Weight	32000kg



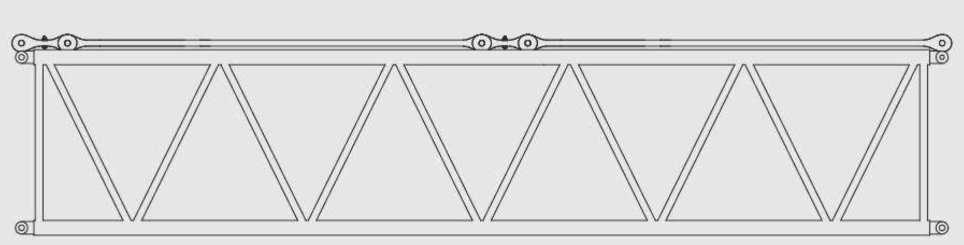
主臂10.5m底节臂 10.5m boom butt	×1
长 L	10788mm
宽 W	3043mm
高 H	2970mm
重量 Weight	13400kg



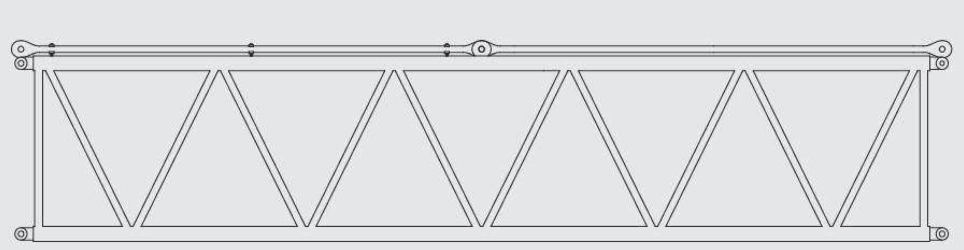
主臂6m中间节 6m Boom insert	×1
长 L	6252mm
宽 W	3000mm
高 H	2589mm
重量 Weight	2900kg



主臂12m中间节 A 12m Boom insert	×2
长 L	12252mm
宽 W	3000mm
高 H	2589mm
重量 Weight	5650kg

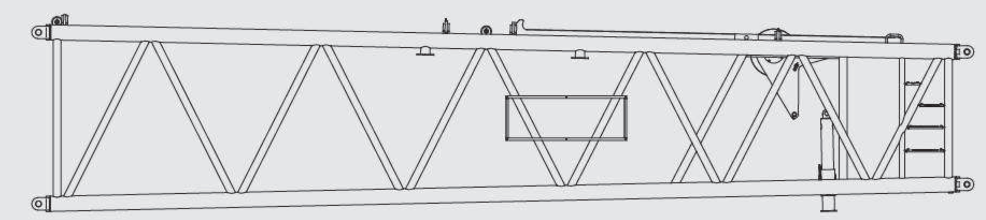


主臂12m中间节 B 12m Boom insert	×1
长 L	12252mm
宽 W	3000mm
高 H	2589mm
重量 Weight	5700kg

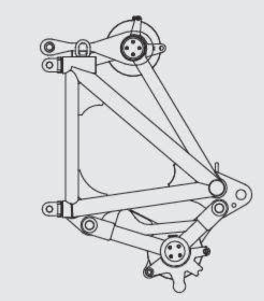


主臂12m中间节 C 12m Boom insert	×2
长 L	12252mm
宽 W	3000mm
高 H	2589mm
重量 Weight	5150kg

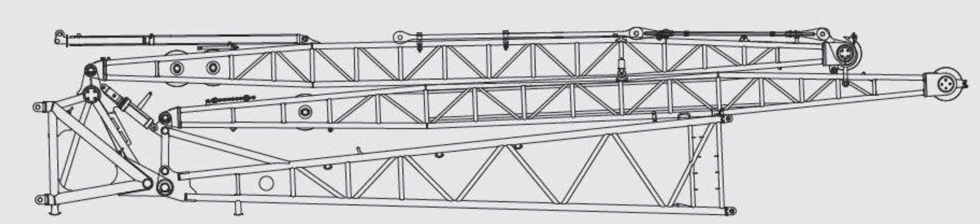
主要零部件
Main Parts



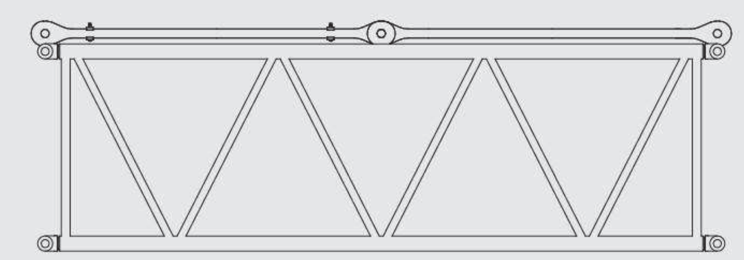
主臂10.5m过渡节 10.5m Boom	×1
长 L	12252mm
宽 W	3000mm
高 H	2589mm
重量 Weight	5100kg



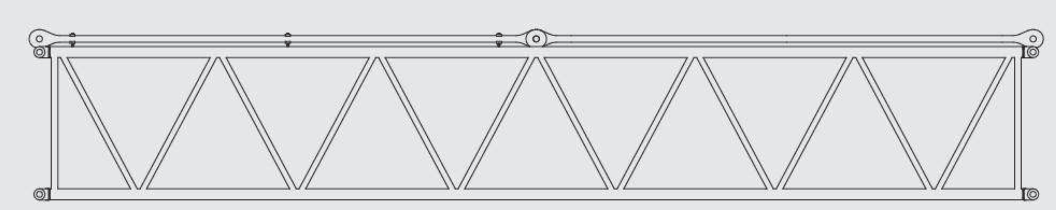
臂头+滑轮组 Boom head	×1
长 L	2530mm
宽 W	2500mm
高 H	3266mm
重量 Weight	4700kg



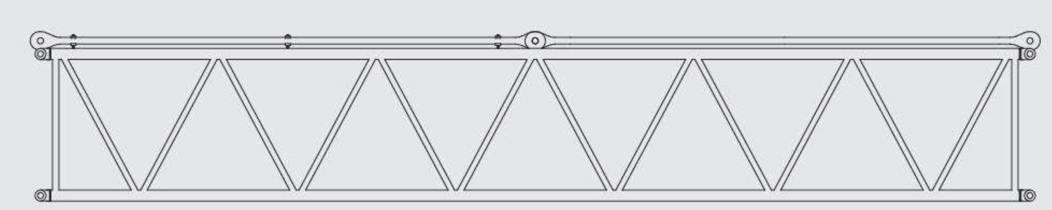
塔臂一体运输组件	×1
长 L	17330mm
宽 W	2670mm
高 H	3450mm
重量 Weight	16000kg



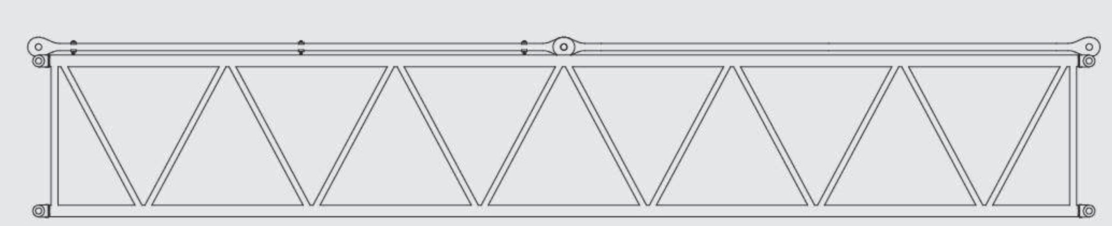
塔臂6m中间节 6m Tower jib	×1
长 L	6252mm
宽 W	2450mm
高 H	2035mm
重量 Weight	1700kg



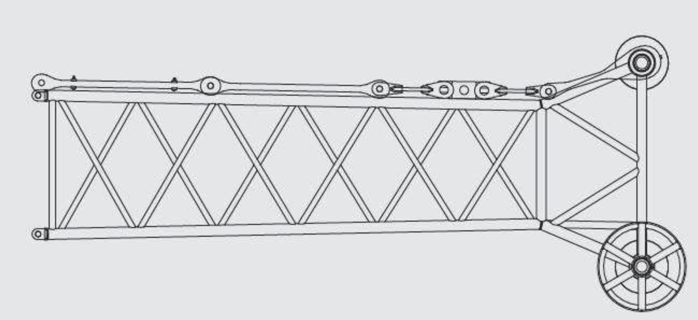
塔臂12m中间节 A 12m Tower jib	×2
长 L	12252mm
宽 W	2450mm
高 H	2035mm
重量 Weight	3000kg



塔臂12m中间节 B 12m Tower jib	×1
长 L	12252mm
宽 W	2450mm
高 H	2035mm
重量 Weight	3000kg

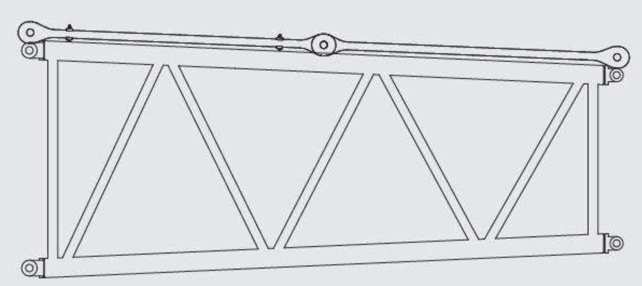


塔臂12m中间节 C 12m Tower jib	×2
长 L	12252mm
宽 W	2450mm
高 H	2035mm
重量 Weight	2850kg



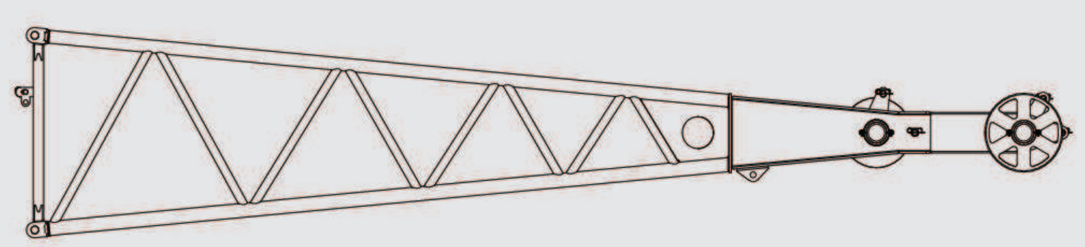
塔臂顶节臂 Tower jib top	×1
长 L	12252mm
宽 W	3043mm
高 H	2589mm
重量 Weight	5150kg

主要零部件
Main Parts



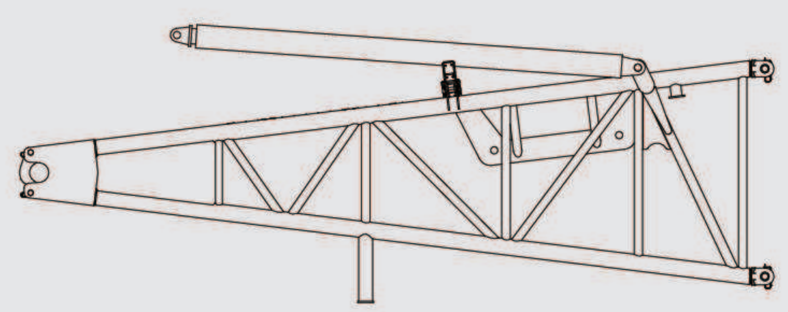
轻型臂6m过渡节
6m Light boom extension ×1

长 L	6250mm
宽 W	3000mm
高 H	2589mm
重量 Weight	2400kg



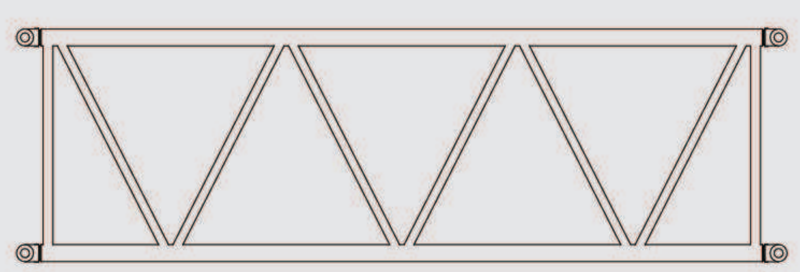
专用副臂顶节臂
Special jib top ×1

长 L	9900mm
宽 W	2350mm
高 H	2000mm
重量 Weight	2500kg



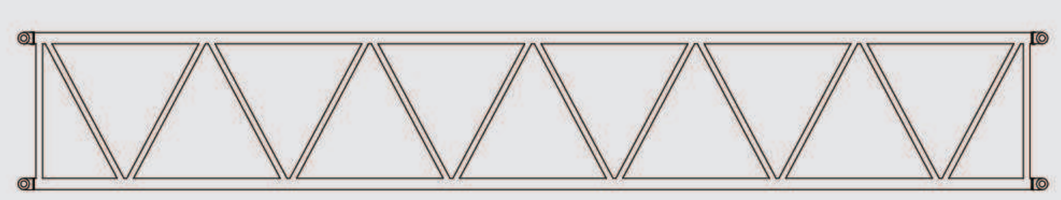
超起桅杆底节臂
SL Mast butt section ×1

长 L	6240mm
宽 W	2720mm
高 H	2000mm
重量 Weight	2250kg



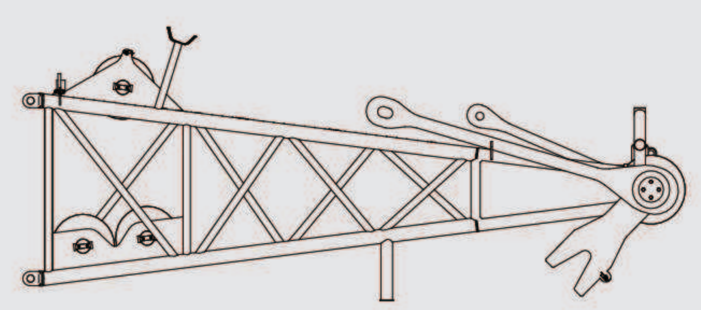
超起桅杆6m节
SL Mast 6m section ×1

长 L	6252mm
宽 W	2900mm
高 H	2000mm
重量 Weight	1400kg



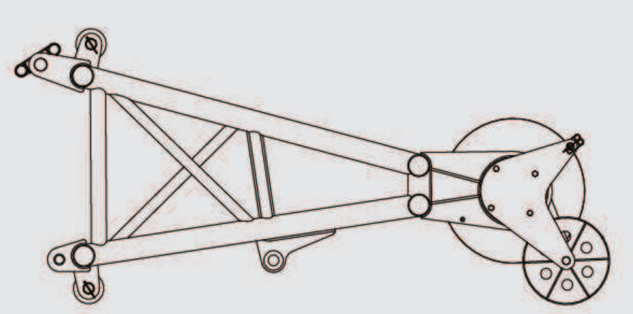
超起桅杆12m节
SL Mast 12m ×1

长 L	12252mm
宽 W	2900mm
高 H	2000mm
重量 Weight	2540kg



超起桅杆顶节臂
SL Mast top ×1

长 L	6400mm
宽 W	2850mm
高 H	2600mm
重量 Weight	3300kg



臂端单滑轮
Boom head single sheave ×1

长 L	2670mm
宽 W	1525mm
高 H	1250mm
重量 Weight	510kg

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.

详细介绍
Brief Introduction

上 车

发动机

XGC400选用康明斯生产的直列6缸、水冷、增压中冷、电喷环保型发动机，额定功率298KW，额定转速1800rpm，符合欧洲工程机械Ⅲ阶段排放标准。

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，与转台采用液压式动力销轴连接，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外侧前面，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

采用三排滚柱式回转支承，质量稳定可靠。

Crane Superstructure

Engine

XGC400 uses Cummins diesel engine, 6-cylinder in line, water-cooled, turbocharged, inter-cooled and electronic injection, rated output power 298kW, rated speed 1800rpm, emission in compliance with European Construction Machinery Stage Ⅲ.

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

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 outside 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.

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，且三处配重可完全互换。
转台平衡重： 150t
平衡重箱2件 5t/件
平衡重块14件 10t/件
车身平衡重： 42.4t
平衡重箱2件 1.2t/件
平衡重块4件 10t/件
超起平衡重： 230t(此时转台配重为110t，车身配重为22.4t)
超起平衡重托盘 1件 10t/件
平衡重块22件 10t/件
平衡重块共34块

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380mm。

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

包括履带架和四轮一带。履带架采用箱形结构，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1.2m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，每个履带由两台德国进口的减速机及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0.9公里/小时。行走时，设备运行平稳，可实现低快速行走。

Counterweight System

Ballast system consists of turntable ballast, SL ballast and car-body ballast.
Turntable Ballast: 150t
Ballast box 2 pcs. 5t/pcs.
Ballast 14 slabs 10t/slab
Car-body Ballast: 42.4t
Ballast box 2 pcs. 1.2t/pcs.
Ballast 4 slabs 10t/slab
SL Ballast: 230t (At this time,turntable ballast 110t,car-body ballast 22.4t)
Ballast tray 1 pcs. 10t/pcs.
Ballast 22 slabs 10t/slab
The counter weight totale 34 slabs

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 380mm.

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 1.2m, 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 0.9km/h, stable and fast travel.

作业装置

起重臂包括主臂、塔式副臂、专用副臂（选配）。

工况

标准工况重型主臂工况
标准工况轻型主臂工况
标准工况塔式副臂工况
标准工况专用副臂工况（选配）
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（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24~90m;
超起工况下，重型主臂长度为36~96m（96m为选装）。
组成：10.5m主臂底节，6m主臂中间节×1（选配96m时，×2），12m厚壁主臂中间节I×2，12m厚壁主臂中间节II×1，12m薄厚壁主臂中间节×2，12m重型过渡节×1，1.5m臂头。

轻型主臂

轻型主臂由重型底节与塔臂顶节经6m轻型过渡节连接而成。
标准工况下，轻型主臂长度为42~108m;
超起工况下，轻型主臂长度为78~126m。
组成：10.5m主臂底节，12m厚壁主臂中间节I×2，12m厚壁主臂中间节II×1，12m薄壁主臂中间节×2，6m轻型过渡节×1，6m塔式副臂厚壁中间节×1，12m塔式副臂厚壁中间节×2，12m塔式副臂薄壁中间节×1，7.5m塔式副臂顶节。

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30~60m范围内作业，其塔臂长度为24~72m。
超起工况下，塔式副臂可在主臂长36~84m范围内作业，其塔臂长度为24~84m。
组成：10.5m塔式副臂底节，6m塔式副臂厚壁中间节×1，12m塔式副臂厚壁中间节×3，12m塔式副臂薄壁中间节×2，7.5m塔式副臂顶节。

专用副臂（选配）

专用副臂由0.8m连接节和8m专用副臂顶节组成，为选配工况。
标准工况下，专用副臂安装主臂臂长66~90m。
超起工况下，专用副臂安装主臂臂长78~96m。

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

标准配置：400t吊钩
50t吊钩
16t吊钩
注：400t吊钩可以分解成200t吊钩

Lifting Operation Parts

Lifting boom comprises main boom 、tower jib and special jib (optional).

Working Conditions

Standard Mode Heavy Boom Working Conditions
Standard Mode Light Boom Working Conditions
Standard Mode Tower Jib Working Conditions
Standard Mode Boom Point For Wind Power(Optional)
SL Mode Heavy Boom Working Conditions
SL Mode Light Boom Working Conditions
SL Mode Tower 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 24~90m. For SL working condition, the heavy boom length is 36~96m.
Construction: 10.5m boom butt, 6m×1 heavy boom insert, 12m×2 heavy boom insert, 12m×1 light boom insert, 12m×1 extension 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 42~108m. For SL working condition, the light boom length is 78~126m.
Construction: 10.5m boom butt, 12m×2 heavy boom insert , 12m×2 light boom insert, 6m×1 extension section, 6m×2 heavy jib insert, 12m×1 heavy jib insert, 12m×1 light jib insert, and 7.5m 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 30~60m, and lifting operation length is 24~72m. For SL working condition, the tower jib can be operated within the range of boom length 36~84m and lifting operation length is 24~84m.
Construction: 10.5m jib butt, 6m×3 heavy jib insert, 12m×1 heavy jib insert, 12m×2 light jib insert,7.5m jib top.

Special jib(Optional)

Special jib is the connection of 0.8m Connection section and 8m special jib top.
For standard working condition, the special jib can be operated within the range of boom length 66~90m, For SL working condition, the special jib can be operated within the range of boom length 78~96m.

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

Standard equipment:
400t capacity hook block,
50t capacity hook block,
16t capacity hook block.
Note: 400t capacity hook block may be divided into 200t capacity hook blocks.

Courtesy of CraneMarket.com

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。

Safety Device

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.

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。

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.

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。

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.

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。

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.

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。

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.

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。

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.

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。

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.

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。

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.

详细介绍
Brief Introduction

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。

Monitor System

The monitor system contains 4 cameras and 2 monitor display, respectively keeping watch on winch system and rear working condition.

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。

Audio/Video Warning

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

三色力矩报警器

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%以上时“红灯”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。

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% of total rated lifting load, “Red Lamp” light on indicate crane is overload; In dangerous area, control system can automatically cut off crane movement to dangerous direction.

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。

Electronic Level Gauge

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

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。

Illumination Lamp

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

示高灯

安装在臂架顶部，作为高空警示。

Height Mark Lamp

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

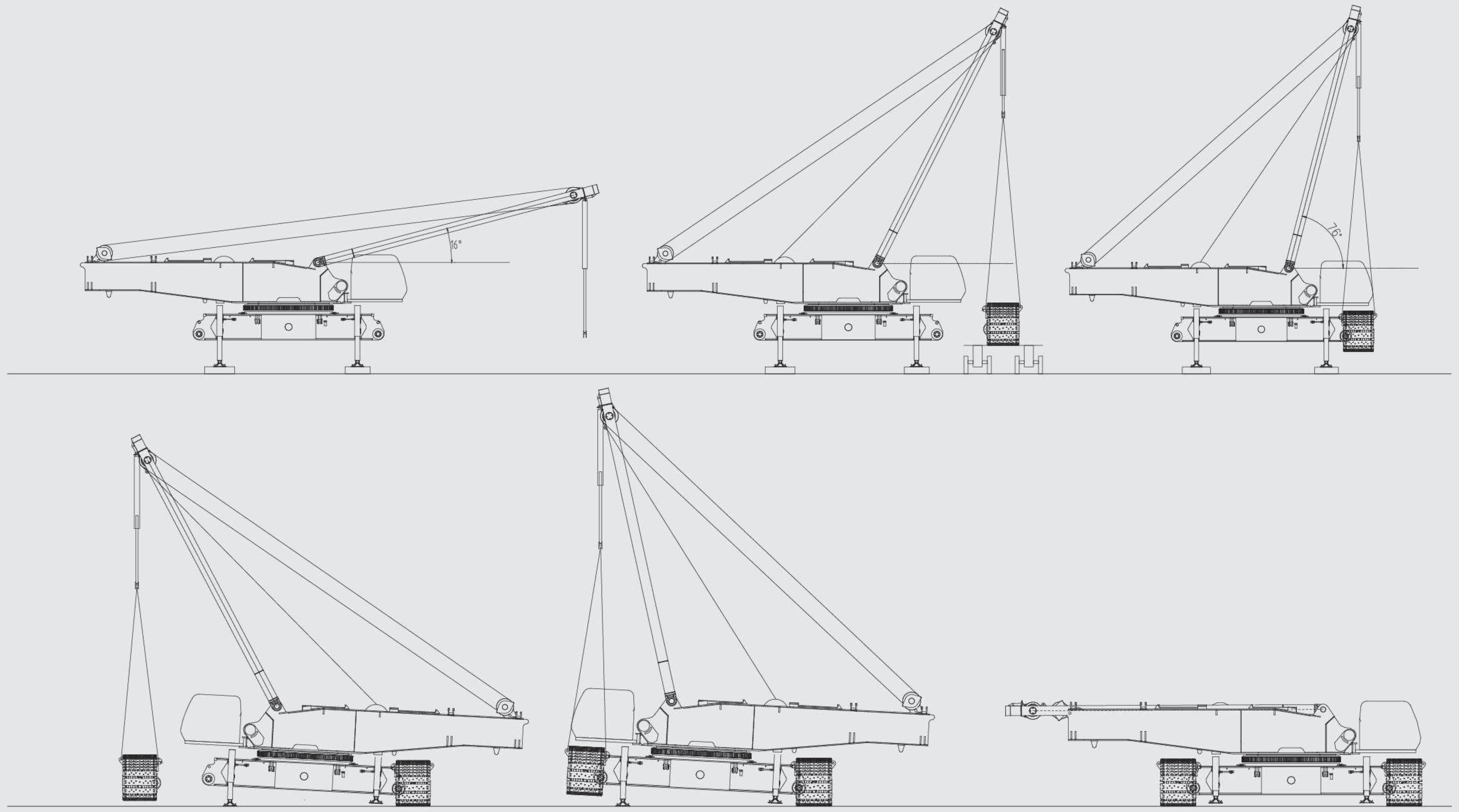
风速仪

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。

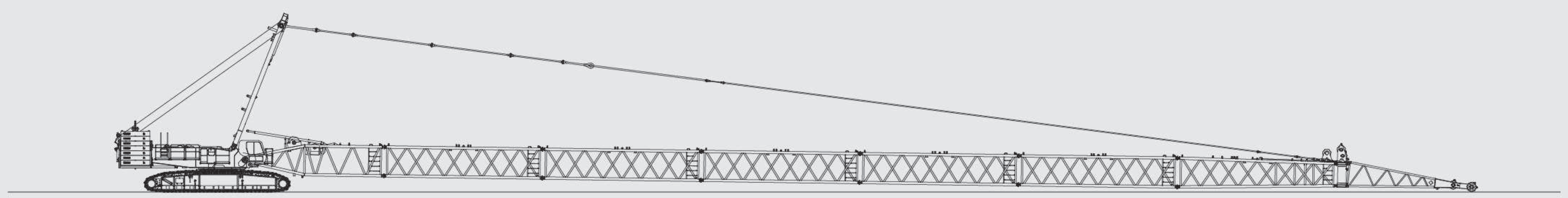
Anemometer

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.

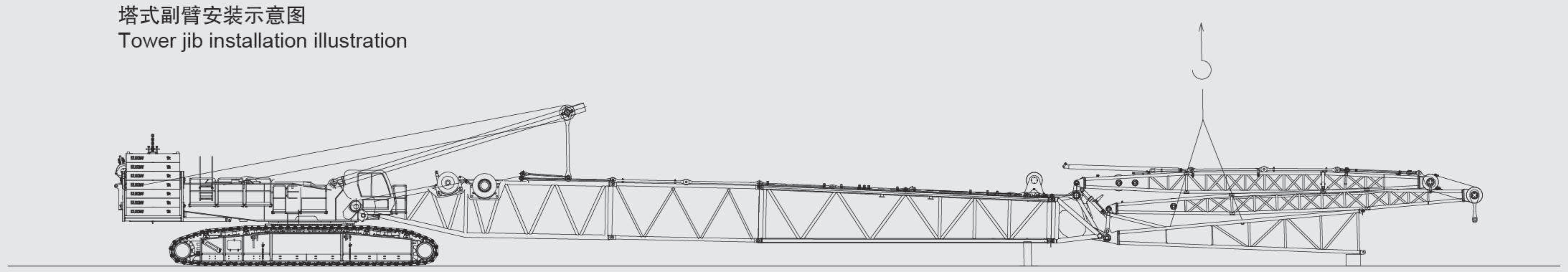
自拆装
Self Assembly & Disassembly



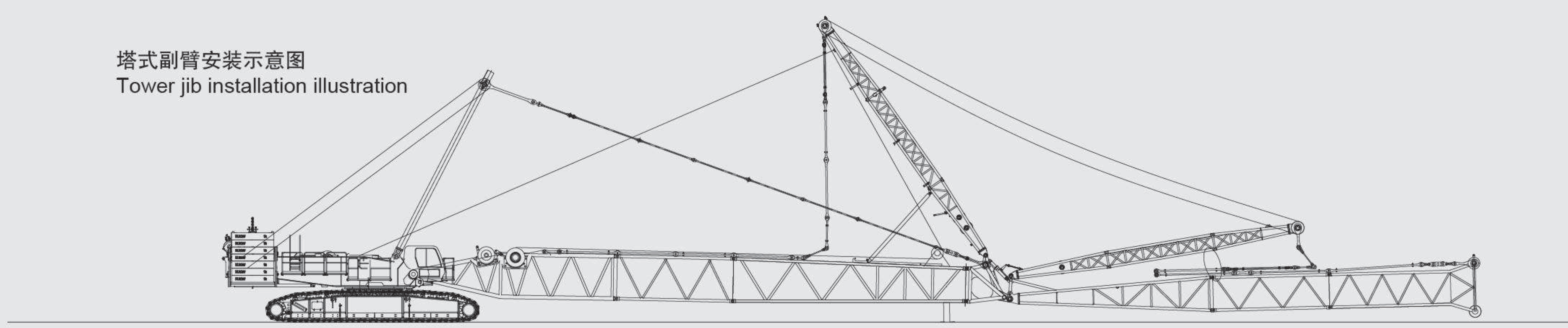
风电臂安装示意图
Boom Point For Wind Power Installation Illustration



塔式副臂安装示意图
Tower jib installation illustration



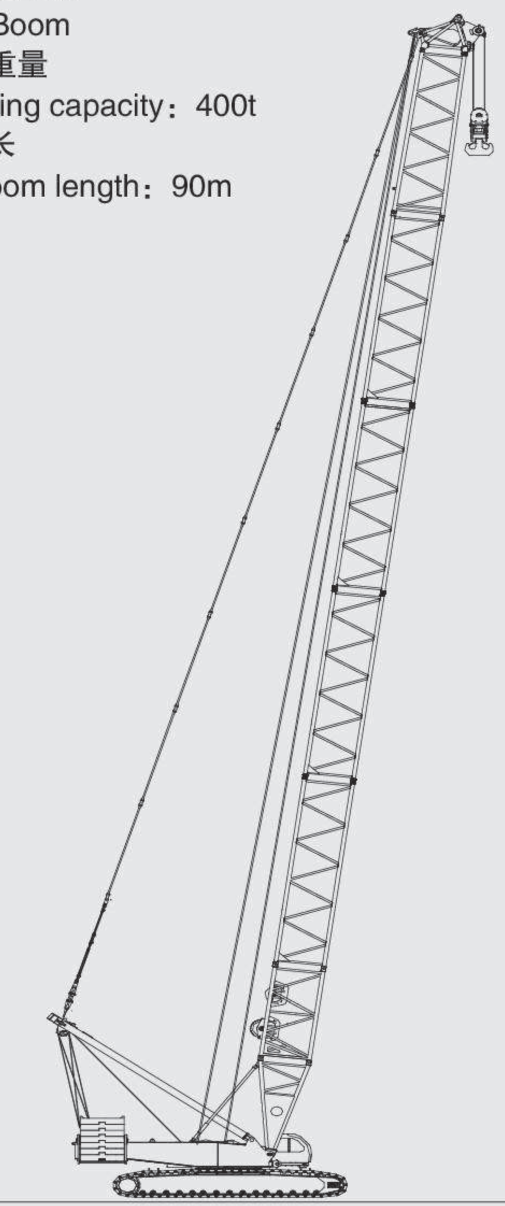
塔式副臂安装示意图
Tower jib installation illustration



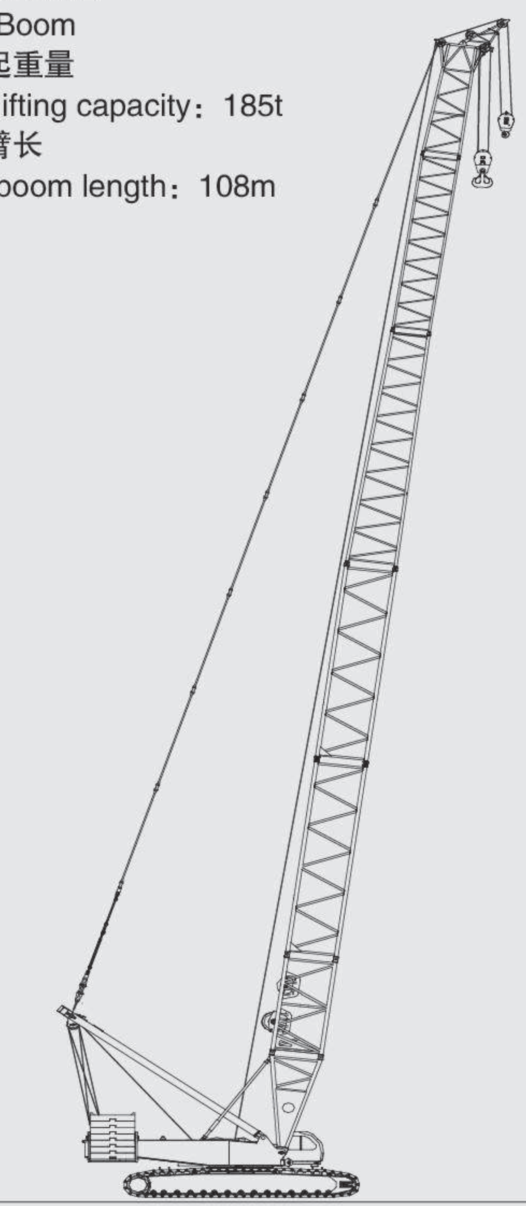
工况示意图
Working Mode Illustration

标准工况 Standard Mode

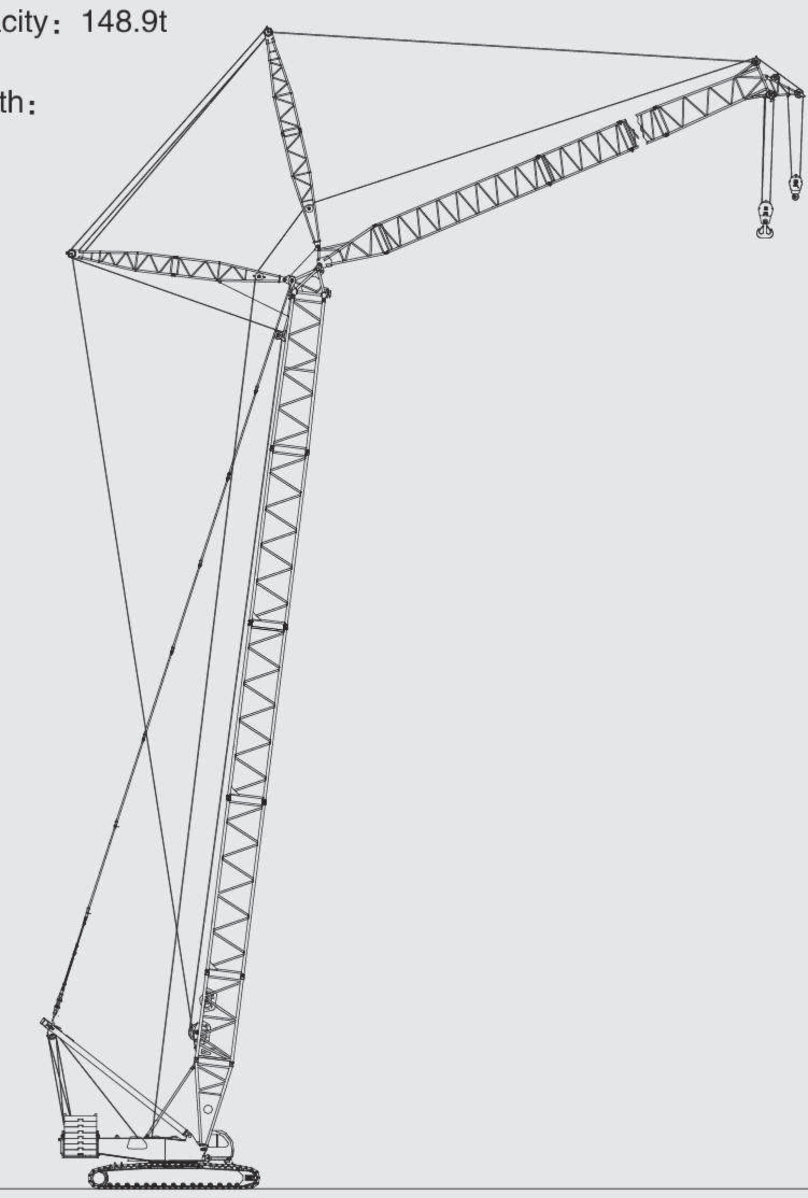
标准重型主臂
Heavy Boom
最大起重量
Max. lifting capacity：400t
最大臂长
Max. boom length：90m



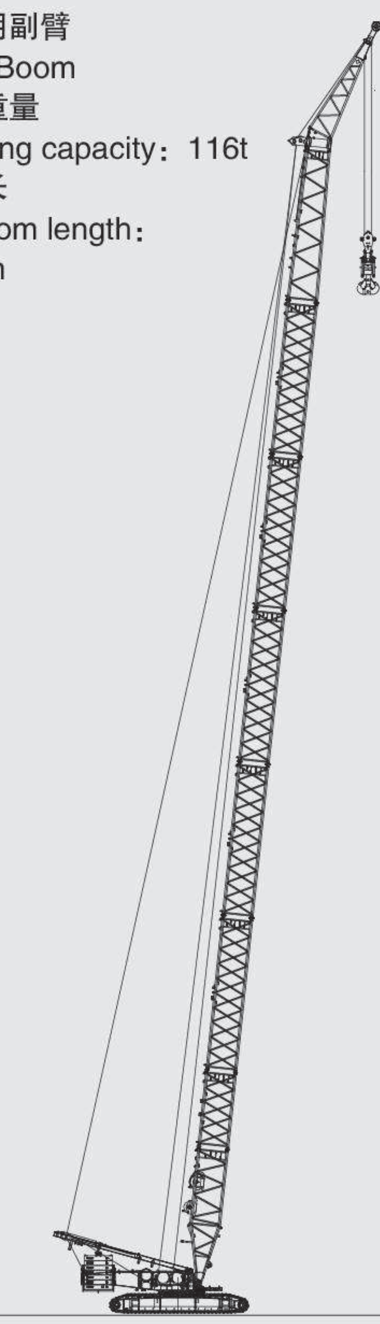
标准轻型主臂
Light Boom
最大起重量
Max. lifting capacity：185t
最大臂长
Max. boom length：108m



标准塔式副臂
Tower Jib
最大起重量
Max. lifting capacity：148.9t
最大臂长
Max. boom length：
60m+72m



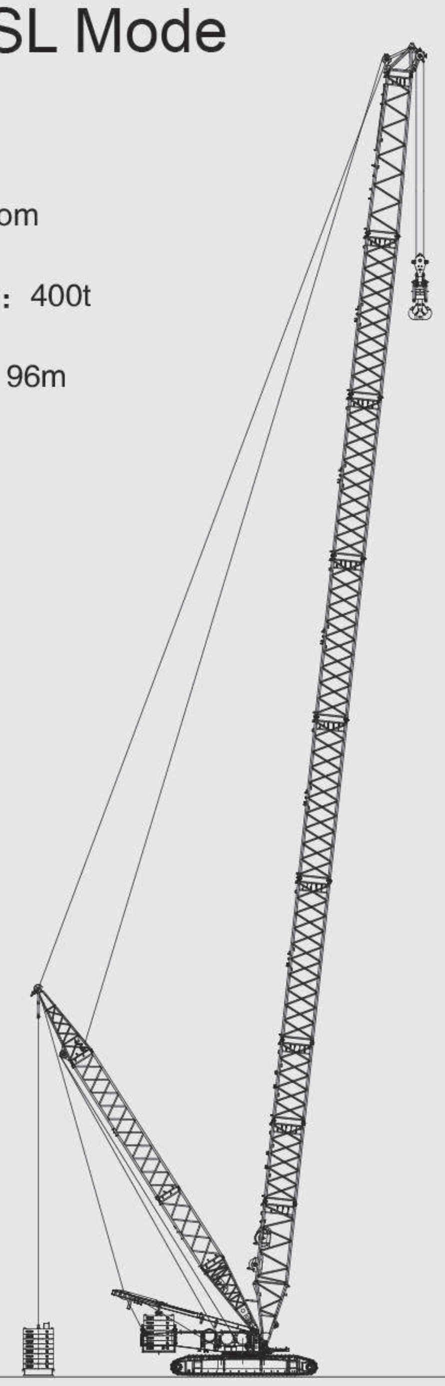
标准专用副臂
Special Boom
最大起重量
Max. lifting capacity：116t
最大臂长
Max. boom length：
90m+7m



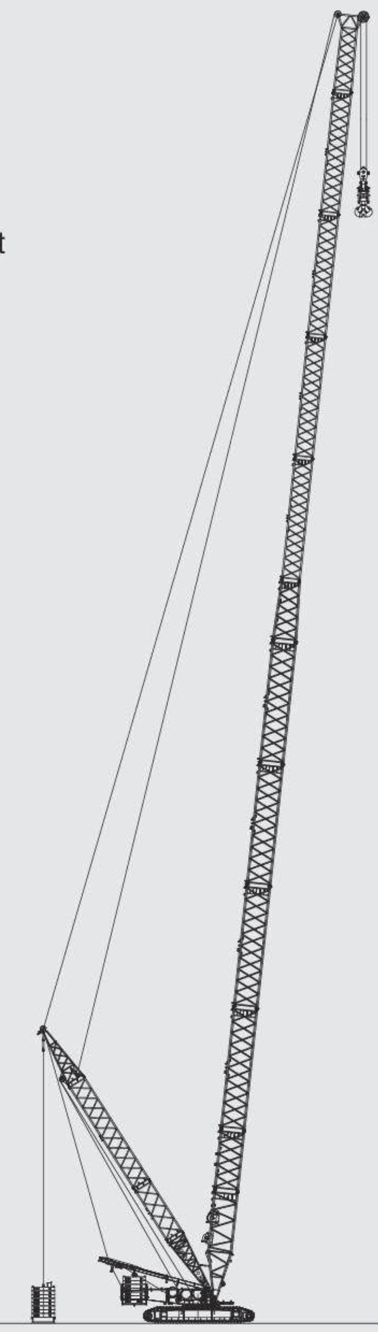
工况示意图
Working Mode Illustration

超起工况 SL Mode

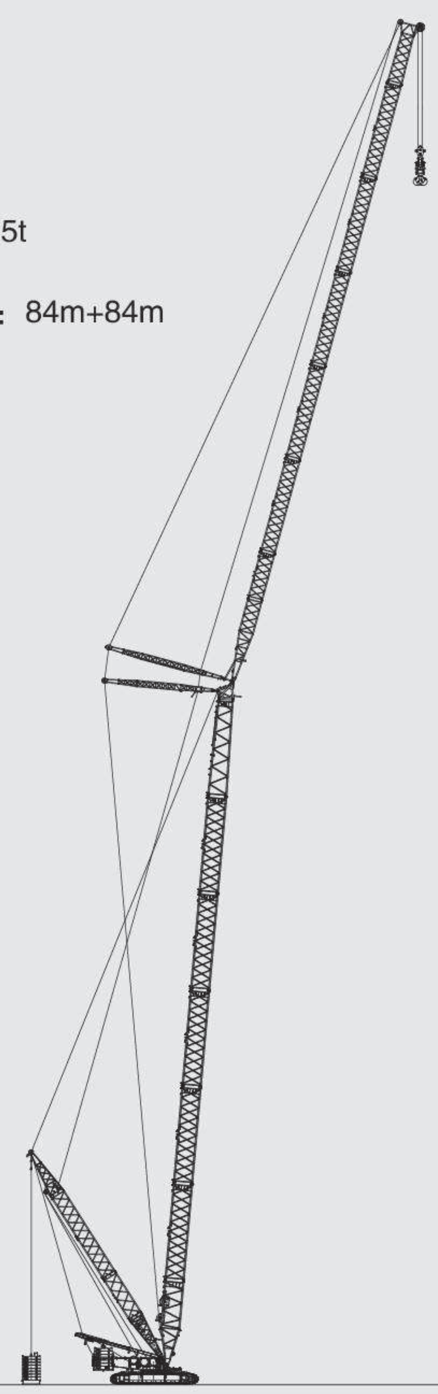
超起重型主臂
SL Mode Heavy Boom
最大起重量
Max. lifting capacity：400t
最大臂长
Max. boom length：96m



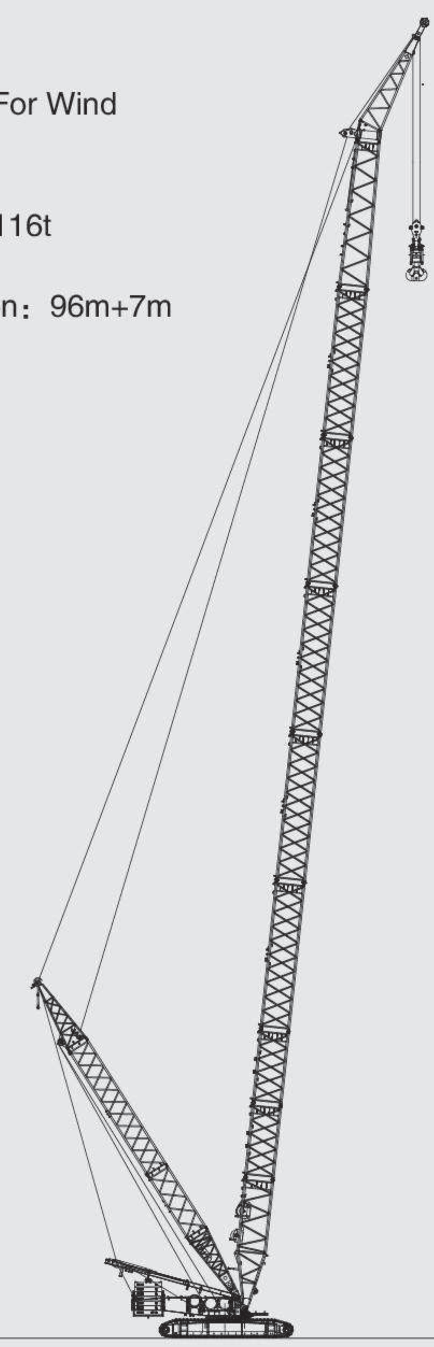
超起轻型主臂
SL Mode Light Boom
最大起重量
Max. lifting capacity：185t
最大臂长
Max. boom length：126m



超起塔式副臂
SL Mode Tower Jib
最大起重量
Max. lifting capacity：185t
最大臂长组合
Max. boom combination：84m+84m



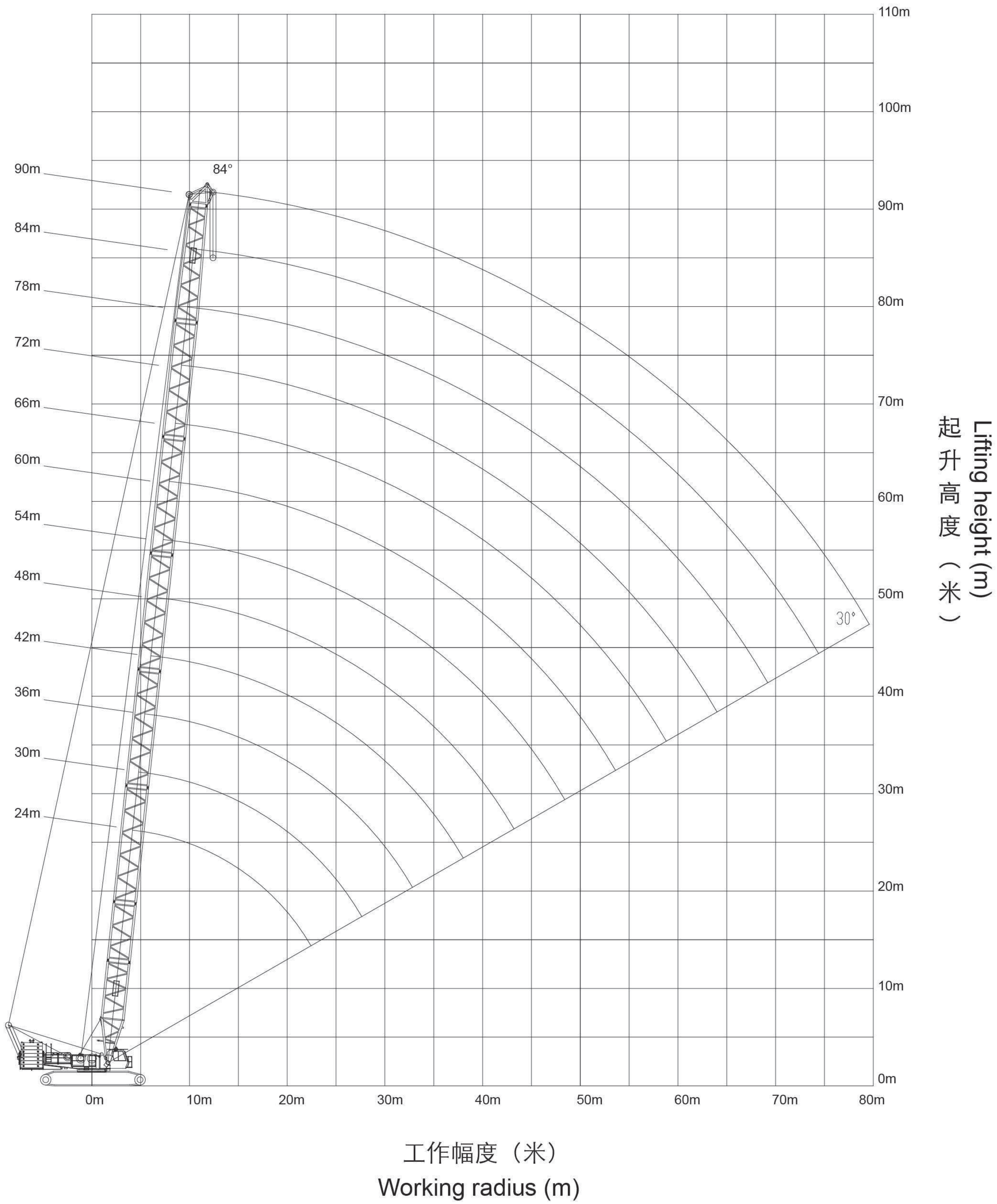
超起专用副臂
SL Mode Boom Point For Wind Power(optional)
最长组合最大起重量
Max. lifting capacity：116t
最大臂长组合
Max. boom combination：96m+7m



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 重型臂	主臂 12m 重型节A	主臂 12m 重型节B	主臂 12m 轻型臂
24	-	-	-	-
30	1	-	-	-
36	-	1	-	-
42	1	1	-	-
48	-	1	1	-
54	1	1	1	-
60	-	2	1	-
66	1	2	1	-
72	-	2	1	1
78	1	2	1	1
84	-	2	1	2
90	1	2	1	2

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



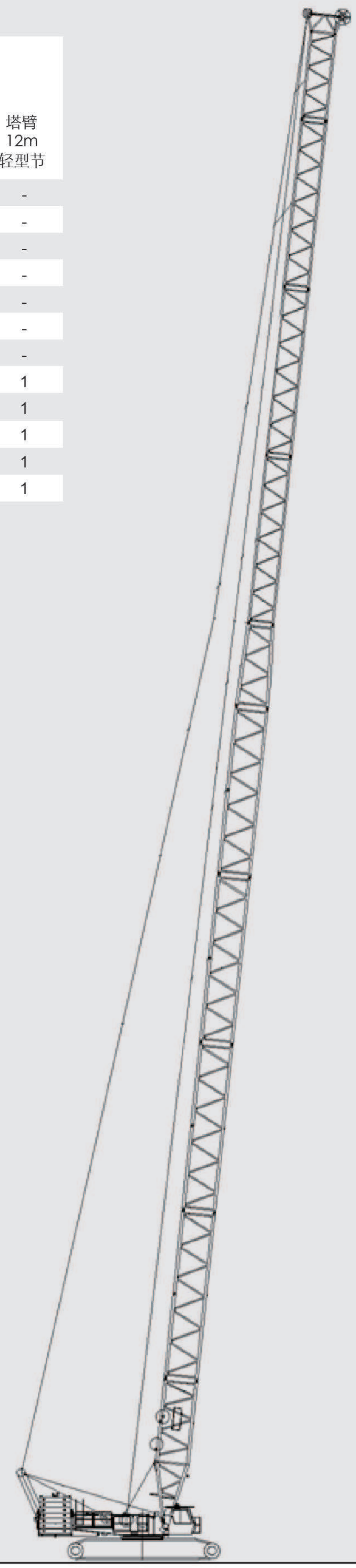
标准工况重型主臂载荷表
Standard Mode Heavy Boom Lifting Load Chart

150t转台平衡重+40t车身平衡重
150t turntable ballast + 40t car-body ballast

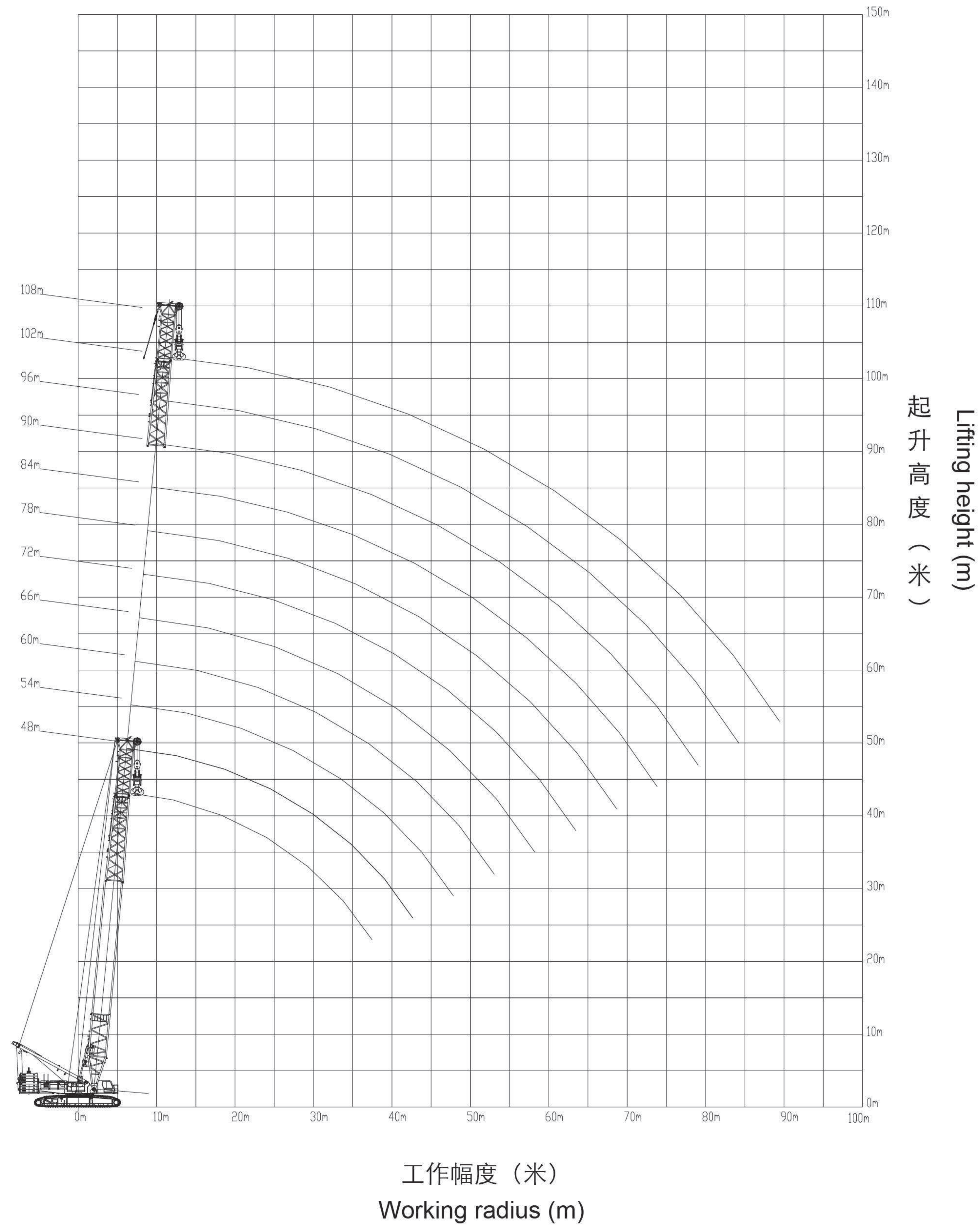
幅度Radius (m)	臂长 Boom length (m)											
	24	30	36	42	48	54	60	66	72	78	84	90
6	400											
7	350.5	349.1	347.7									
8	309.5	308.2	306.9	305.2								
9	270.8	270.4	268.1	260	252.3	247.1						
10	239.3	236.6	230.2	224.1	218	214.1	208.7	203.6				
12	178.8	178.9	178.8	174.6	170.5	168	164.4	160.8	157.5	148.5	124.7	
14	141.7	141.8	141.7	141.3	139.2	137.4	134.6	131.9	129.4	126.8	121.8	104.5
16	116.7	116.7	116.5	116.1	115.7	115.2	113.3	111.1	109.1	106.9	104.9	102.1
18	98.6	98.6	98.5	98	97.5	96.9	96.4	95.4	93.7	91.9	90.2	88.3
20	84.9	85	84.8	84.3	83.8	83.2	82.6	81.9	81.5	80	78.5	76.9
22	74.2	74.3	74.1	73.6	73.1	72.4	71.8	71.1	70.7	69.9	69.1	67.6
24		65.7	65.5	65	64.5	63.8	63.2	62.4	62	61.2	60.7	59.9
26		58.6	58.5	57.9	57.4	56.7	56	55.3	54.8	54.1	53.5	52.7
28		52.6	52.6	52	51.5	50.8	50.1	49.3	48.9	48.1	47.5	46.7
30			47.5	47	46.5	45.7	45.1	44.3	43.8	43	42.5	41.6
32			43.2	42.7	42.2	41.4	40.8	39.9	39.5	38.6	38.1	37.3
34				38.9	38.4	37.7	37	36.2	35.7	34.9	34.3	33.5
36				35.6	35.1	34.4	33.7	32.9	32.4	31.5	31	30.1
38				32.7	32.2	31.4	30.8	29.9	29.5	28.6	28.1	27.2
40					29.6	28.8	28.2	27.3	26.9	26	25.4	24.6
42					27.2	26.5	25.8	25	24.5	23.7	23.1	22.2
44						24.4	23.7	22.9	22.4	21.6	21	20.1
46						22.5	21.8	21	20.5	19.6	19.1	18.2
48						20.7	20.1	19.3	18.8	17.9	17.3	16.4
50							18.5	17.7	17.2	16.3	15.7	14.8
52							17	16.2	15.7	14.8	14.3	13.4
54							15.6	14.8	14.4	13.5	12.9	12
56								13.6	13.1	12.2	11.7	10.8
58								12.4	12	11.1	10.5	9.6
60									10.9	10	9.4	8.5
62									9.9	9	8.4	7.5
64									8.9	8.1	7.5	6.6
66										7.2	6.6	5.7
68										6.3	5.8	
70											5	

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

臂长 Boom length (m)	中间臂节 Boom insert					
	主臂 6m 重型臂	主臂 12m 重型节A	主臂 12m 重型节B	塔臂 6m 重型臂	塔臂 12m 重型节	塔臂 12m 轻型节
42	1	1	-	-	-	-
48	1	1	-	1	-	-
54	-	2	-	1	-	-
60	-	2	-	-	1	-
66	1	2	-	-	1	-
72	1	2	-	1	1	-
78	-	2	1	1	1	-
84	-	2	1	-	1	1
90	1	2	1	-	1	1
96	1	2	1	1	1	1
102	-	2	2	1	1	1
108	-	2	2	-	2	1



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



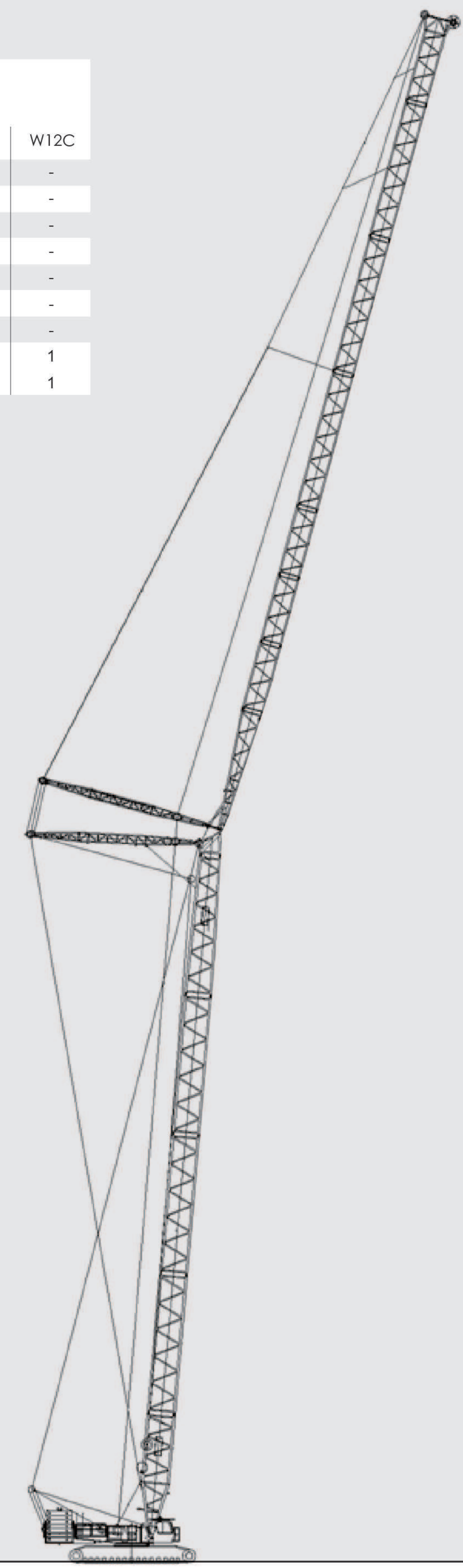
标准工况轻型主臂起重性能表
Standard Mode Light Boom Lifting Load Chart

150t转台平衡重+40t车身平衡重
150t turntable ballast +40t car-body ballast

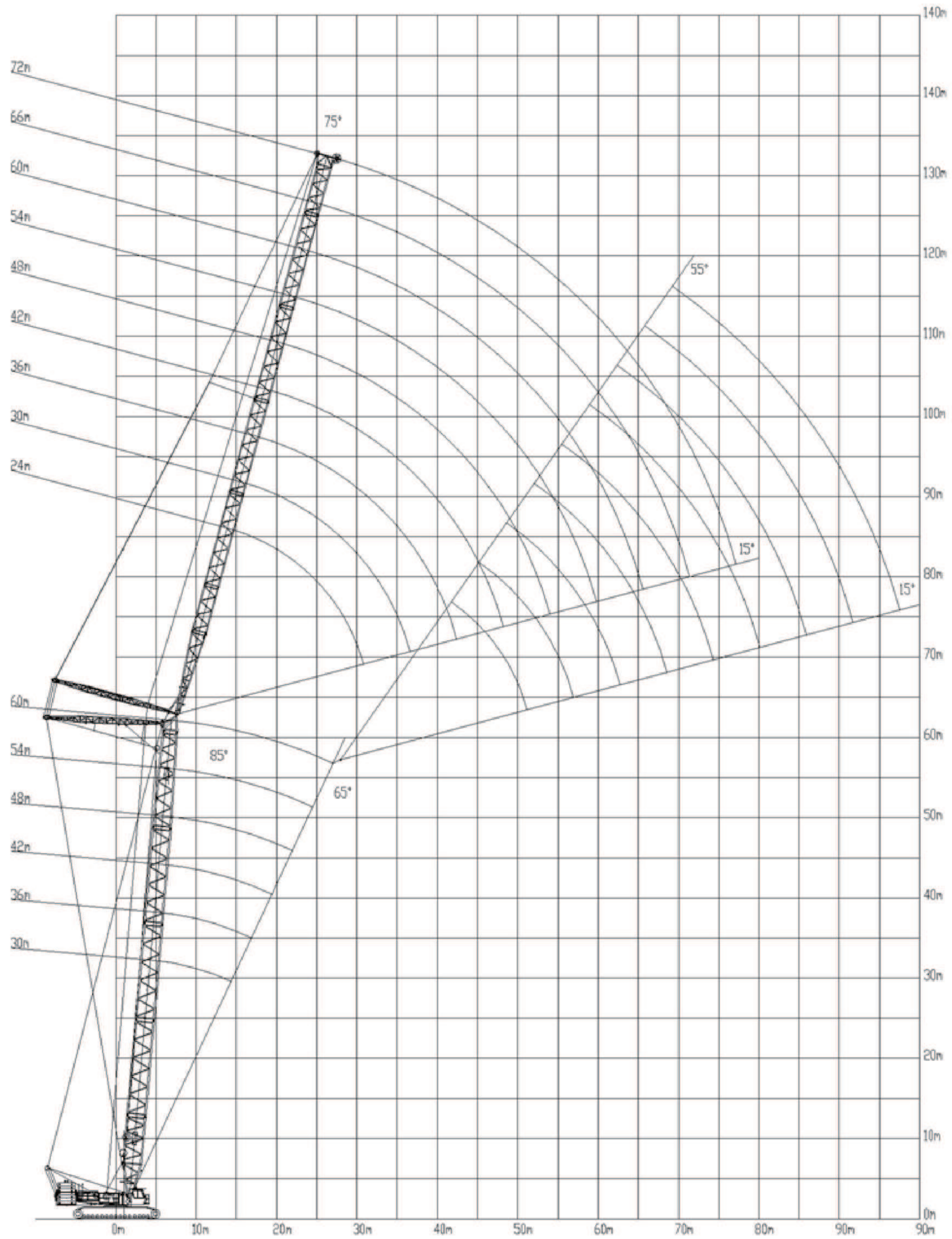
幅度Radius (m)	臂长 Boom length (m)											
	42	48	54	60	66	72	78	84	90	96	102	108
8	185	185										
9	185	185	185									
10	185	185	185	174.7	164.6							
12	176.6	172.9	170.3	152	143.9	134.9	120.3	106.3				
14	143.7	141.7	139.9	133	125.4	116.7	108.1	99.4	90.8	81.2	71.4	
16	118.6	118.6	118.1	116.5	110.6	104.9	99.3	93.6	88	79.5	69.4	54.5
18	100.5	100.5	99.9	99.9	98.5	95.2	91.9	88.6	85.3	75.7	67.5	52.8
20	86.8	86.8	86.2	86.2	85.6	84.4	83.2	82	80.8	70.4	65.7	51.1
22	76.1	76.1	75.5	75.5	74.9	74.6	74	73.3	71.7	65.6	64	49.5
24	67.6	67.5	66.9	66.9	66.2	65.9	65.4	65.3	64.2	60.8	60	48.7
26	60.5	60.5	59.9	59.9	59.1	58.8	58.3	58.2	57.4	56.3	55.6	47.4
28	54.6	54.6	54	54	53.2	52.9	52.3	52.2	51.5	51.1	50.1	45.9
30	49.6	49.6	49	48.9	48.2	47.8	47.3	47.2	46.4	46	45.2	43
32	45.3	45.3	44.7	44.6	43.9	43.5	43	42.9	42.1	41.7	41	40.2
34	41.6	41.5	40.9	40.9	40.1	39.8	39.2	39.1	38.3	37.9	37.2	36.5
36	38.3	38.2	37.7	37.6	36.8	36.5	35.9	35.8	35	34.6	33.9	33.3
38	35.3	35.3	34.8	34.7	33.9	33.6	33	32.9	32.1	31.6	31	30.5
40		32.7	32.2	32.1	31.3	31	30.4	30.3	29.5	29	28.4	28
42		30.4	29.8	29.8	29	28.7	28.1	28	27.1	26.7	26	25.7
44			27.7	27.7	26.9	26.6	26	25.9	25	24.6	23.9	23.6
46			25.8	25.8	25	24.7	24.1	24	23.1	22.7	22	21.7
48			24.1	24.1	23.3	22.9	22.4	22.3	21.4	21	20.3	20
50				22.5	21.7	21.4	20.8	20.7	19.8	19.4	18.7	18.4
52				21	20.3	19.9	19.3	19.2	18.4	17.9	17.2	16.9
54				19.7	18.9	18.6	18	17.9	17	16.6	15.9	15.6
56					17.7	17.3	16.8	16.7	15.8	15.3	14.7	14.4
58					16.5	16.2	15.6	15.5	14.6	14.2	13.5	13.2
60						15.1	14.5	14.4	13.6	13.1	12.4	12.1
62						14.1	13.5	13.4	12.6	12.1	11.5	11.1
64						13.1	12.6	12.5	11.6	11.2	10.5	10.2
66							11.7	11.6	10.8	10.3	9.6	9.3
68							10.9	10.8	9.9	9.5	8.8	8.5
70								10	9.2	8.7	8.1	7.7
72								9.3	8.4	8	7.3	7
74								8.6	7.8	7.3	6.6	6.3
76									7.1	6.7	6	5.7
78									6.5	5.7	5.4	5.1
80									5.9			

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

臂长 Boom length (m)	中间臂节 Boom insert			
	W6A	W12A	W12B	W12C
24	1	-	-	-
30	1	1	-	-
36	1	-	1	-
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



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



起升高度（米）
Lifting height (m)

工作幅度（米）
Working radius (m)

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

主臂长度30 m，主臂角度85°，150t转台平衡重+40t车身平衡重
150t turntable ballast +40t car-body ballast

幅度Radius (m)	主臂30米 Boom length 30m								
	24	30	36	42	48	54	60	66	72
14	148.9								
16	126.9	124.7							
18	108.5	108.2	106.6	98.6					
20	94.4	94.2	93.7	92.7	83.1				
22	83.4	83.2	82.7	82.2	81.6	70.4			
24	74.5	74.3	73.9	73.4	72.8	69.8	60.5		
26	67.1	67.0	66.6	66.1	65.6	65.1	60.1	51.9	
28		60.9	60.5	60.1	59.5	59.0	58.4	51.4	44.3
30		55.7	55.4	54.9	54.4	53.9	53.3	51.0	43.9
32		51.2	50.9	50.5	50.0	49.5	48.9	48.5	43.5
34		47.2	47.0	46.6	46.1	45.6	45.1	44.6	43.0
36			43.6	43.2	42.7	42.3	41.7	41.3	40.7
38			40.6	40.2	39.8	39.3	38.7	38.3	37.7
40				37.6	37.1	36.6	36.1	35.6	35.1
42				35.1	34.7	34.3	33.7	33.3	32.7
44				32.9	32.5	32.1	31.5	31.1	30.5
46					30.6	30.2	29.6	29.2	28.6
48					28.8	28.4	27.8	27.4	26.8
50					27.1	26.7	26.2	25.8	25.2
52						25.2	24.7	24.3	23.7
54						23.8	23.3	22.9	22.4
56						22.5	22.0	21.7	21.1
58							20.8	20.5	19.9
60							19.7	19.4	18.8
62								18.4	17.8
64								17.4	16.9
66								16.5	16.0
68									15.1
70									13.6
72									12.2

主臂角度65°，150t转台平衡重+40t车身平衡重
Boom angle 65°,150t turntable ballast +40t car-body ballast

幅度Radius (m)	主臂30米 Boom length 30m								
	24	30	36	42	48	54	60	66	72
32	44.6								
34	41.2	40.7							
36	38.2	37.8							
38	35.4	35.2	34.5						
40		32.8	32.2						
42		30.7	30.1	29.5					
44		28.7	28.2	27.6					
46			26.5	25.9	25.2				
48			24.9	24.4	23.7	23.1			
50				23.0	22.3	21.7			
52				21.7	21.0	20.4	19.7		
54				20.4	19.8	19.3	18.5		
56					18.7	18.2	17.4	16.9	
58					17.7	17.1	16.4	15.9	
60					16.7	16.2	15.5	15.0	14.3
62						15.3	14.6	14.1	13.4
64						14.5	13.8	13.3	12.6
66						13.6	13.0	12.6	11.9
68							12.3	11.9	11.2
70							11.6	11.2	10.5
72							10.9	10.5	9.9
74								9.9	9.3
76								9.3	8.7
78									8.2
80									7.6
82									7.1

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

主臂角度85°，150t转台平衡重+40t车身平衡重
Boom angle 85°,150t turntable ballast +40t car-body ballast

幅度Radius (m)	主臂60米 Boom length 60m								
	24	30	36	42	48	54	60	66	72
16	105.9								
18	100.8	92.3							
20	89.6	88.1	80.6						
22	80.6	79.2	77.7	70.7					
24	72.7	71.9	70.5	66.8	60.3	53.1			
26	65.5	65.3	64.4	62.2	56.8	51.6	46.0		
28	59.5	59.3	58.8	57.5	53.1	48.8	44.0	39.3	
30	54.3	54.3	53.8	52.9	49.4	45.9	41.8	37.6	33.3
32		49.9	49.5	48.5	45.8	43.0	39.4	35.8	31.9
34		46.1	45.7	44.3	42.2	40.1	37.1	33.9	30.4
36		41.7	41.4	40.4	38.8	37.2	34.7	32.0	28.9
38			37.3	36.7	35.5	34.5	32.4	30.0	27.3
40			33.6	33.3	32.5	31.8	30.1	28.1	25.7
42				30.2	29.6	29.3	27.8	26.2	24.1
44				27.2	26.9	26.9	25.7	24.3	22.5
46				24.5	24.3	24.6	23.7	22.5	21.0
48					22.0	22.4	21.7	20.8	19.4
50					19.8	20.4	19.8	19.1	17.9
52					17.7	18.6	18.1	17.5	16.5
54						16.8	16.4	16.0	15.1
56						15.2	14.9	14.5	13.8
58						13.6	13.4	13.1	12.5
60							12.0	11.8	11.3
62							10.7	10.6	10.1
64							9.5	9.4	9.0
66								8.3	7.9
68								7.2	6.9
70								6.2	6.0
72									5.1

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

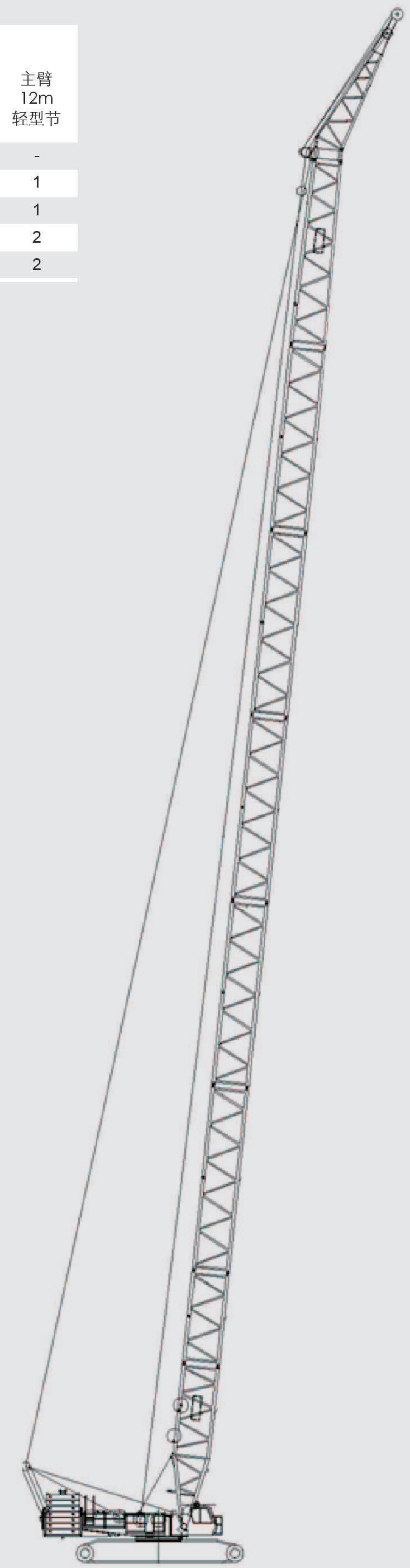
主臂角度65°，150t转台平衡重+40t车身平衡重
Boom angle 65°,150t turntable ballast +40t car-body ballast

幅度Radius (m)	主臂60米 Boom length 60m							
	24	30	36	42	48	54	60	66
44	21.3							
46	19.9							
48	18.6	18.1						
50	17.4	17.0						
52		15.9	15.1					
54		15.0	14.2	13.5				
56		14.0	13.4	12.7				
58			12.5	11.9	11.0			
60			11.8	11.2	10.3			
62			11.0	10.5	9.7	9.0		
64				9.8	9.1	8.4	7.5	
66				9.2	8.5	7.8	6.9	
68					7.9	7.3	6.4	5.8
70					7.4	6.8	5.9	5.3
72					6.9	6.3	5.5	
74						5.8	5.0	
76						5.4		

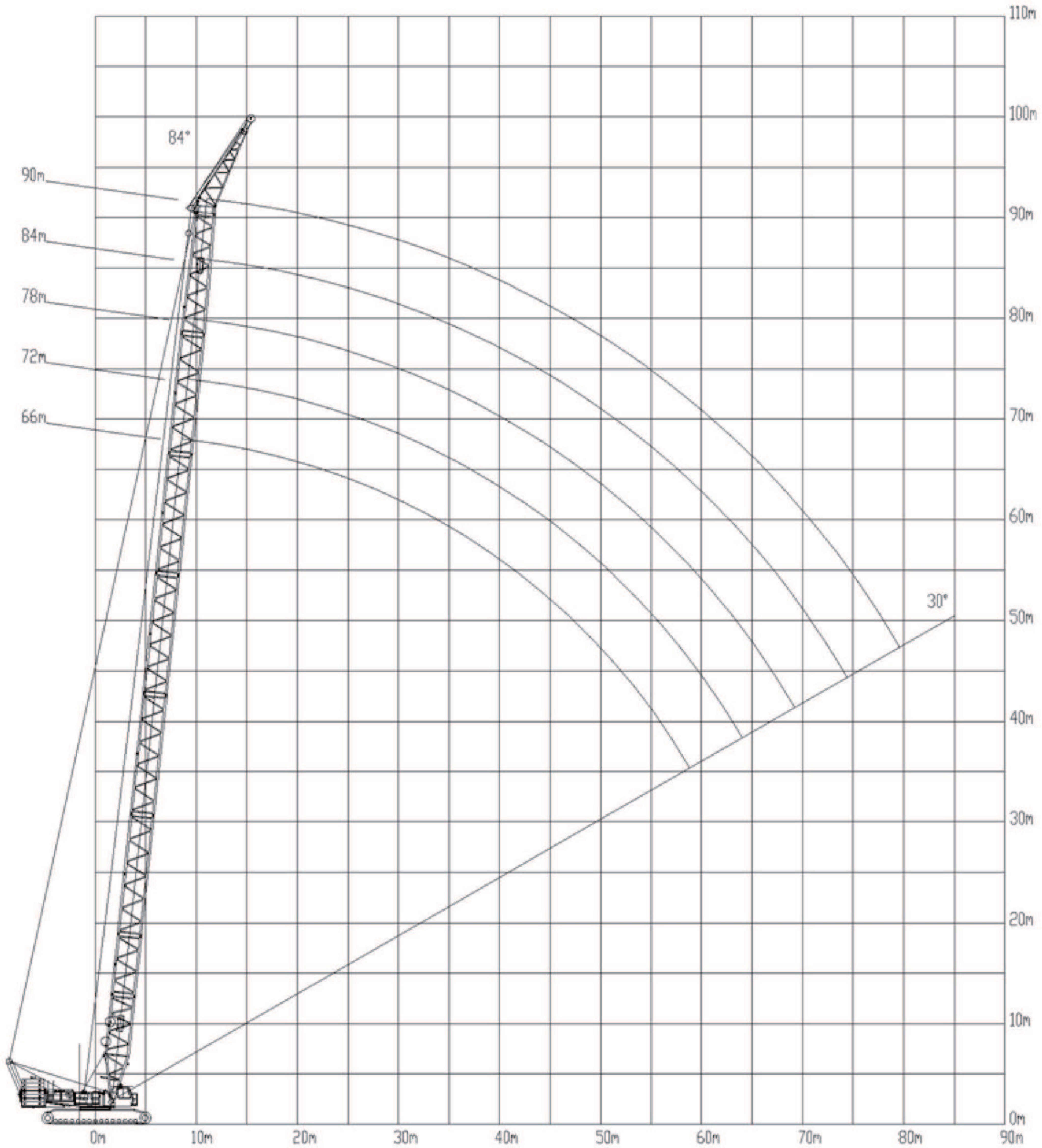
标准工况专用副臂臂节组合（选配）
Standard Mode Special jib Combinations/ Special Jib（Optional）

臂长 Boom length (m)	中间臂节 Boom insert			
	主臂 6m 重型臂	主臂 12m 重型节A	主臂 12m 重型节B	主臂 12m 轻型节
66	1	2	1	-
72	-	2	1	1
78	1	2	1	1
84	-	2	1	2
90	1	2	1	2

注：标准工况专用副臂为选装工况



标准工况专用副臂作业范围
Standard Mode Special jib Working Area



起升高度（米）
Lifting height (m)

工作幅度（米）
Working radius (m)

标准工况专用副臂起重性能表
Standard Mode Special Jib Lifting Load Chart

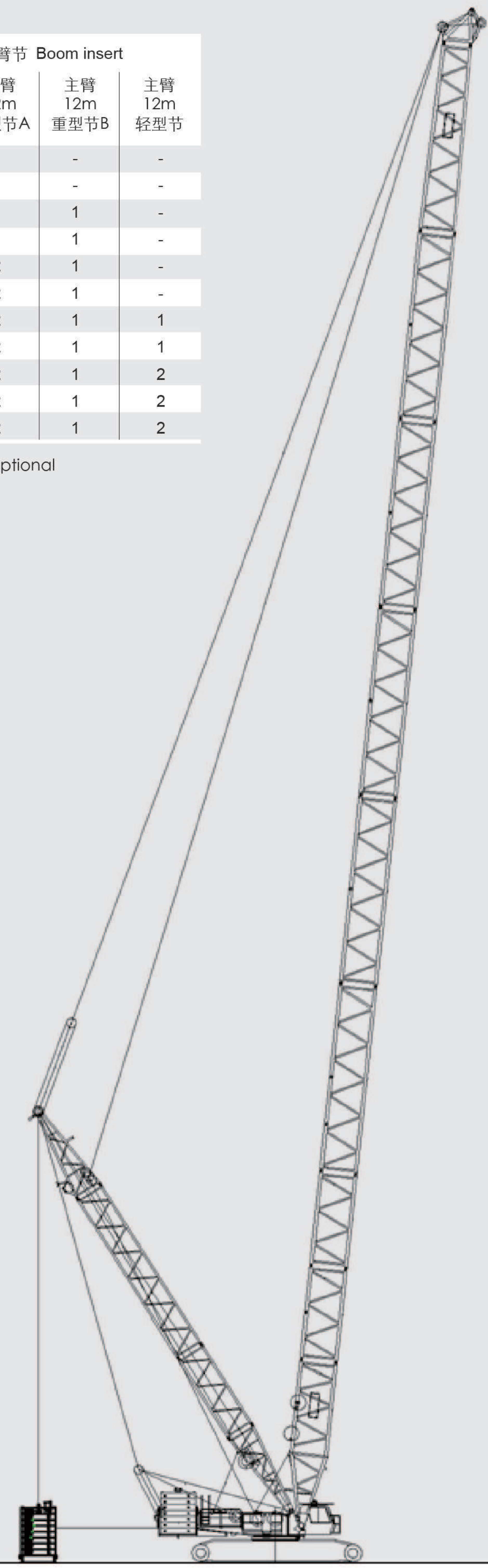
150t转台平衡重+40t车身平衡重，副臂安装角度21.6°
150t turntable counterweight + 40t car-body counterweight,special jib angle 21.6°

幅度Radius (m)	主臂臂长 Boom length m				
	66	72	78	84	90
14	116	116	115.3		
15	116	116	114.1	96.7	85
16	112.5	110.5	108.5	95.6	83.9
18	97	95.4	93.6	92	81.9
20	84.9	83.5	81.9	80.5	78.9
22	74.1	73.7	72.5	71.2	69.8
24	65.3	64.9	64.2	63.5	62.1
26	58.1	57.6	56.9	56.4	55.7
28	52.1	51.6	50.9	50.3	49.6
30	47	46.5	45.7	45.2	44.4
32	42.6	42.1	41.3	40.8	40
34	38.8	38.3	37.5	36.9	36.1
36	35.4	34.9	34.1	33.6	32.7
38	32.5	32	31.1	30.6	29.7
40	29.8	29.3	28.5	27.9	27.1
42	27.5	27	26.1	25.6	24.7
44	25.4	24.8	24	23.4	22.6
46	23.4	22.9	22.1	21.5	20.6
48	21.7	21.2	20.3	19.7	18.8
50	20.1	19.6	18.7	18.1	17.2
52	18.6	18.1	17.2	16.6	15.7
54	17.2	16.7	15.8	15.2	14.4
56	16	15.5	14.6	14	13.1
58	14.8	14.3	13.4	12.8	11.9
60	13.7	13.2	12.3	11.7	10.8
62	12.7	12.2	11.3	10.7	9.8
64	11.7	11.2	10.3	9.7	8.8
66	10.8t	10.3	9.4	8.9	8
68		9.5	8.6	8	7.1
70		8.7	7.8	7.2	6.3
72			7.1	6.5	5.6
74			6.3	5.8	

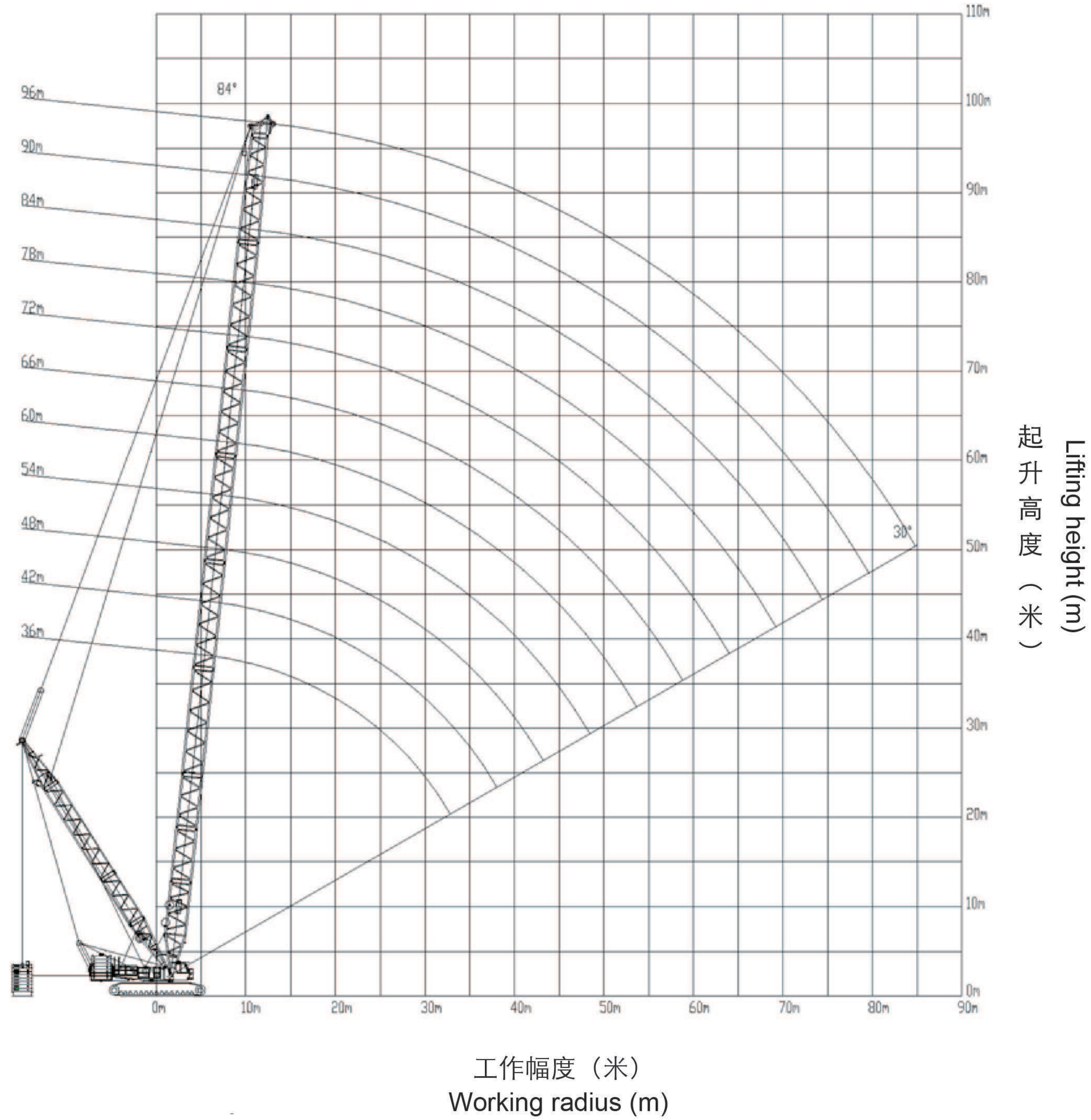
超起工况重型主臂臂节组合/重型主臂
SL Mode Heavy Boom Combinations/Heavy Boom

臂长 Boom length （m）	中间臂节 Boom insert			
	主臂 6m 重型臂	主臂 12m 重型节A	主臂 12m 重型节B	主臂 12m 轻型节
36	-	1	-	-
42	1	1	-	-
48	-	1	1	-
54	1	1	1	-
60	-	2	1	-
66	1	2	1	-
72	-	2	1	1
78	1	2	1	1
84	-	2	1	2
90	1	2	1	2
96*	2	2	1	2

注：96m为选装工况 Note:96m optional



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



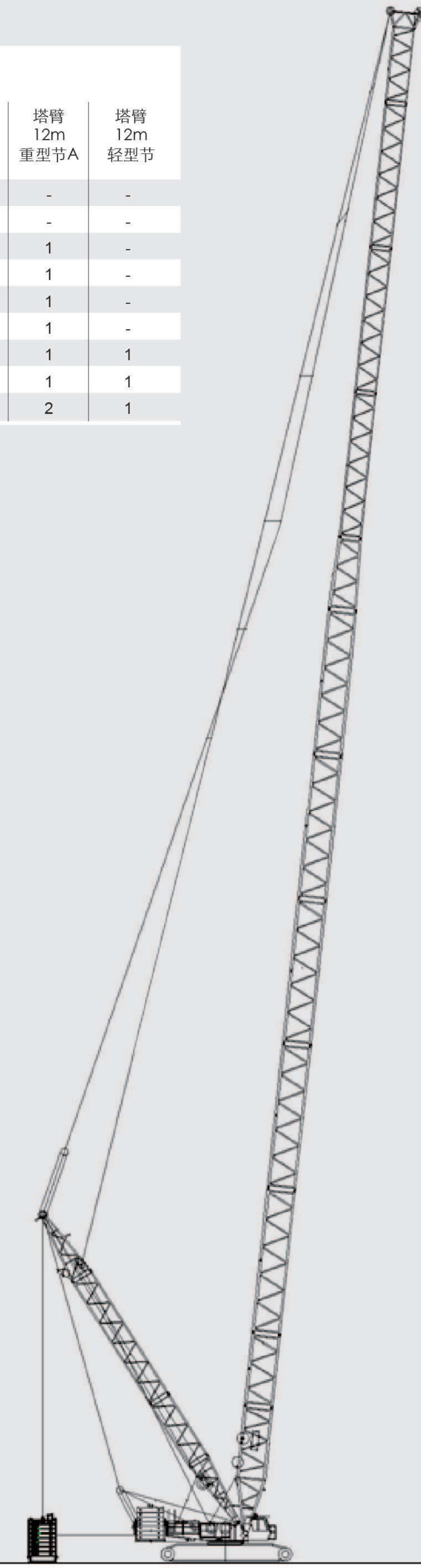
超起工况重型主臂起重性能表
SL Mode Heavy Boom Lifting Load Chart

110t转台平衡重+20t车身平衡重+230t超起平衡重，超起平衡重半径11m~15m
110t turntable ballast+20t car-body ballast+230t SL ballast, SL ballast radius 11m~15m

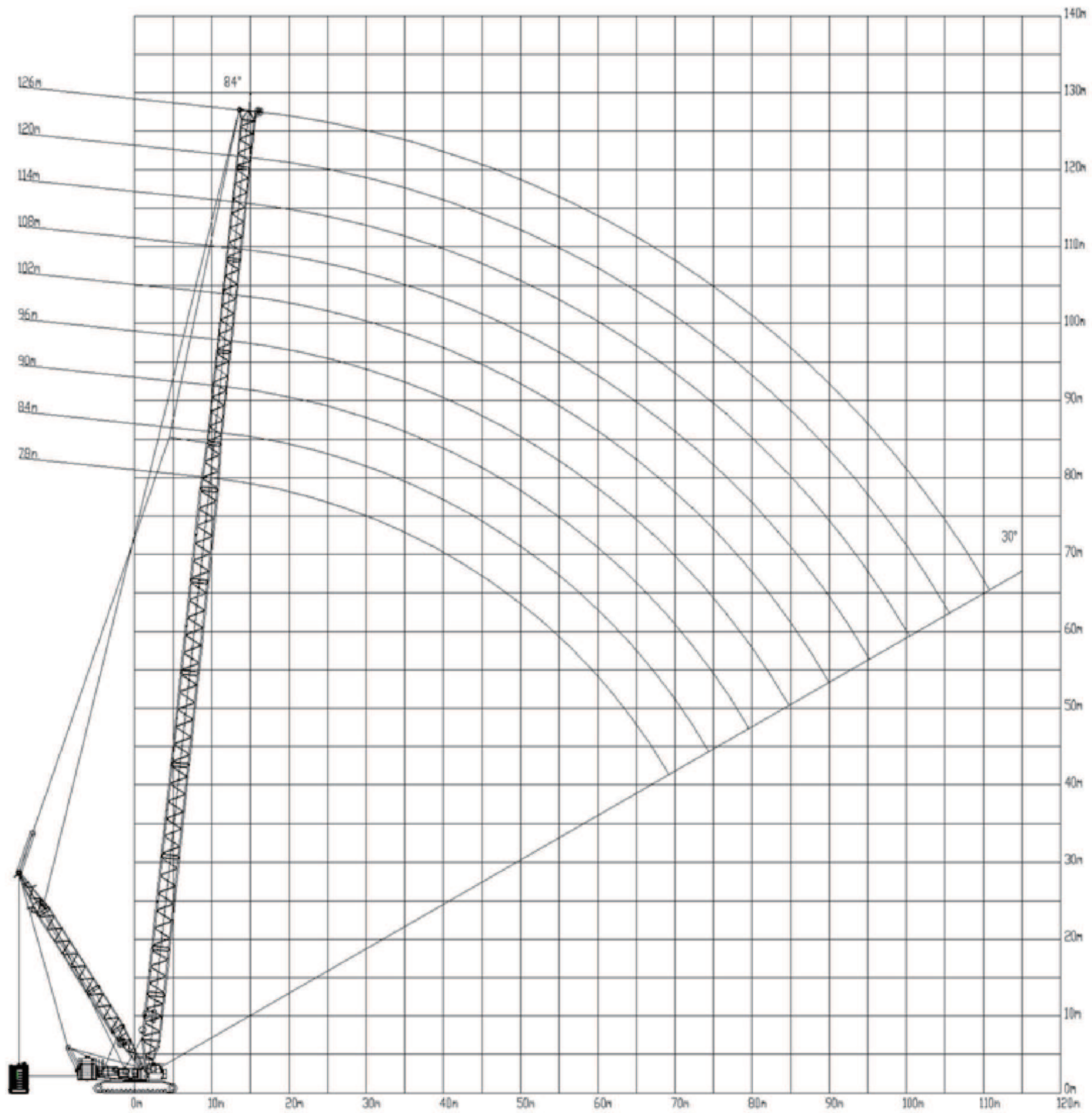
幅度Radius (m)	臂长 Boom length (m)										
	36	42	48	54	60	66	72	78	84	90	96
7	400.0										
8	400.0	384.0									
9	395.0	379.0	357.0	328.2							
10	390.0	373.0	356.0	326.7	294.7	261.7					
12	381.0	362.0	348.0	323.8	292.2	261.7	224.8	191.0	160.2		
14	367.5	353.0	338.0	320.8	289.7	261.7	224.7	190.9	160.0	138.8	121.2
16	322.2	321.3	320.4	317.8	287.3	260.3	224.3	190.6	159.6	138.4	120.8
18	286.5	285.6	284.8	284.4	283.5	258.3	223.5	189.9	159.0	137.9	120.3
20	256.7	256.3	256.0	255.4	254.7	253.5	222.4	189.1	158.3	137.3	119.7
22	230.6	230.5	230.2	229.6	229.0	228.3	221.1	188.0	157.4	136.5	119.1
24	206.5	206.3	206.1	205.7	205.3	204.7	204.4	186.9	156.4	135.7	118.3
26	186.7	186.5	186.3	185.8	185.4	184.8	184.4	183.8	155.3	134.7	117.5
28	170.2	169.9	169.7	169.2	168.7	168.1	167.8	167.1	154.1	133.8	116.7
30	156.1	155.8	155.6	155.1	154.6	154.0	153.6	152.9	152.5	132.7	115.8
32		143.8	143.5	143.0	142.5	141.9	141.5	140.8	140.3	131.6	114.9
34		133.3	133.0	132.4	132.0	131.3	130.9	130.2	129.8	129.0	113.9
36		124.0	123.7	123.2	122.7	122.1	121.7	121.0	120.5	119.7	112.9
38			115.6	115.1	114.6	113.9	113.5	112.8	112.3	111.5	110.7
40			108.3	107.8	107.3	106.6	106.3	105.5	105.1	104.3	103.4
42				101.3	100.8	100.1	99.8	99.0	98.5	97.7	96.9
44				95.4	94.9	94.3	93.9	93.1	92.7	91.8	91.0
46				90.1	89.6	88.9	88.6	87.8	87.3	86.5	85.7
48					84.8	84.1	83.7	83.0	82.5	81.7	80.8
50					80.3	79.6	79.3	78.5	78.0	77.2	76.4
52					76.2	75.6	75.2	74.4	74.0	73.2	72.3
54						71.8	71.5	70.7	70.2	69.4	68.6
56							68.0	67.2	66.8	65.9	65.1
58							64.8	64.0	63.6	62.7	61.9
60							61.8	61.0	60.6	59.7	58.9
62							59.0	58.2	57.8	57.0	56.1
64									55.2	54.3	53.5
66									52.7	51.9	51.1
68									50.4	49.6	48.8
70									48.3	47.5	46.6
72									46.2	45.4	44.6
74									44.3	43.5	42.7
76										41.7	40.8
78										39.9	39.1
80											37.5
82											35.9

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 6m 重型臂	主臂 12m 重型节A	主臂 12m 重型节B	主臂 12m 轻型节	塔臂 6m 重型节	塔臂 12m 重型节A	塔臂 12m 轻型节
78	1	1	1	2	-	-	-
84	1	1	1	2	1	-	-
90	1	1	1	2	-	1	-
96	-	2	1	2	-	1	-
102	-	2	1	2	1	1	-
108	1	2	1	2	1	1	-
114	1	2	1	2	-	1	1
120	1	2	1	2	1	1	1
126	1	2	1	2	-	2	1



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



起升高度（米）
Lifting height (m)

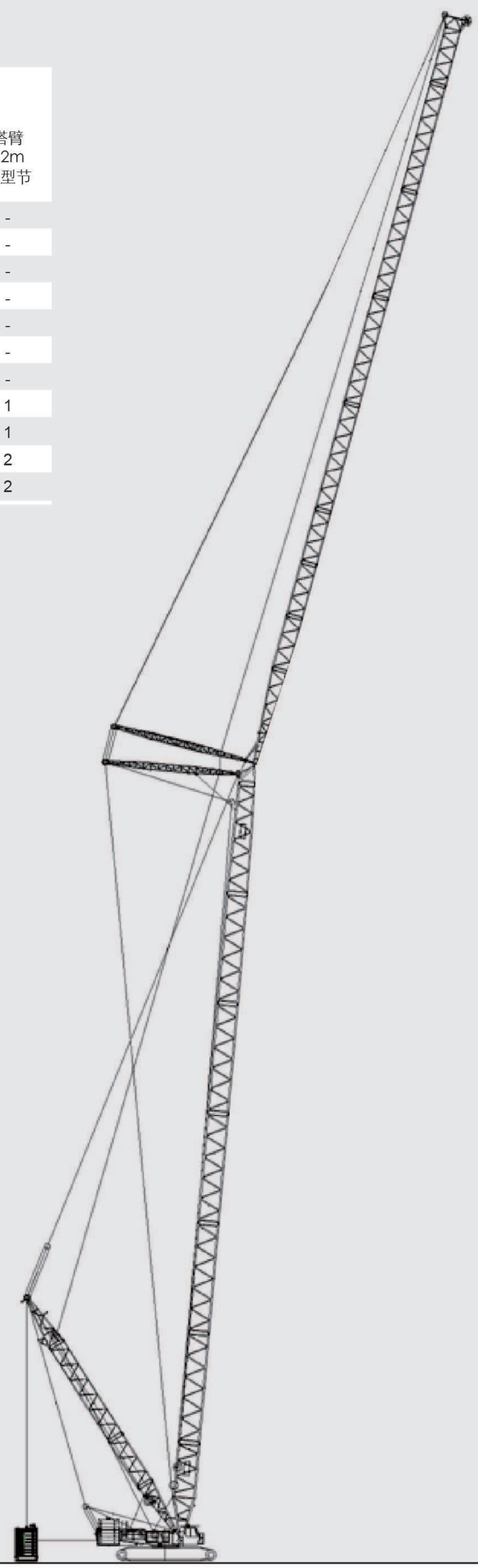
工作幅度（米）
Working radius (m)

超起工况轻型主臂起重性能表
SL Mode Light Boom Lifting Load Chart

110t转台平衡重+20t车身平衡重+230t超起平衡重，超起平衡重半径15m
110t turntable counterweight+20t car-body counterweight+230t SL counterweight, SL counterweight radius 15m

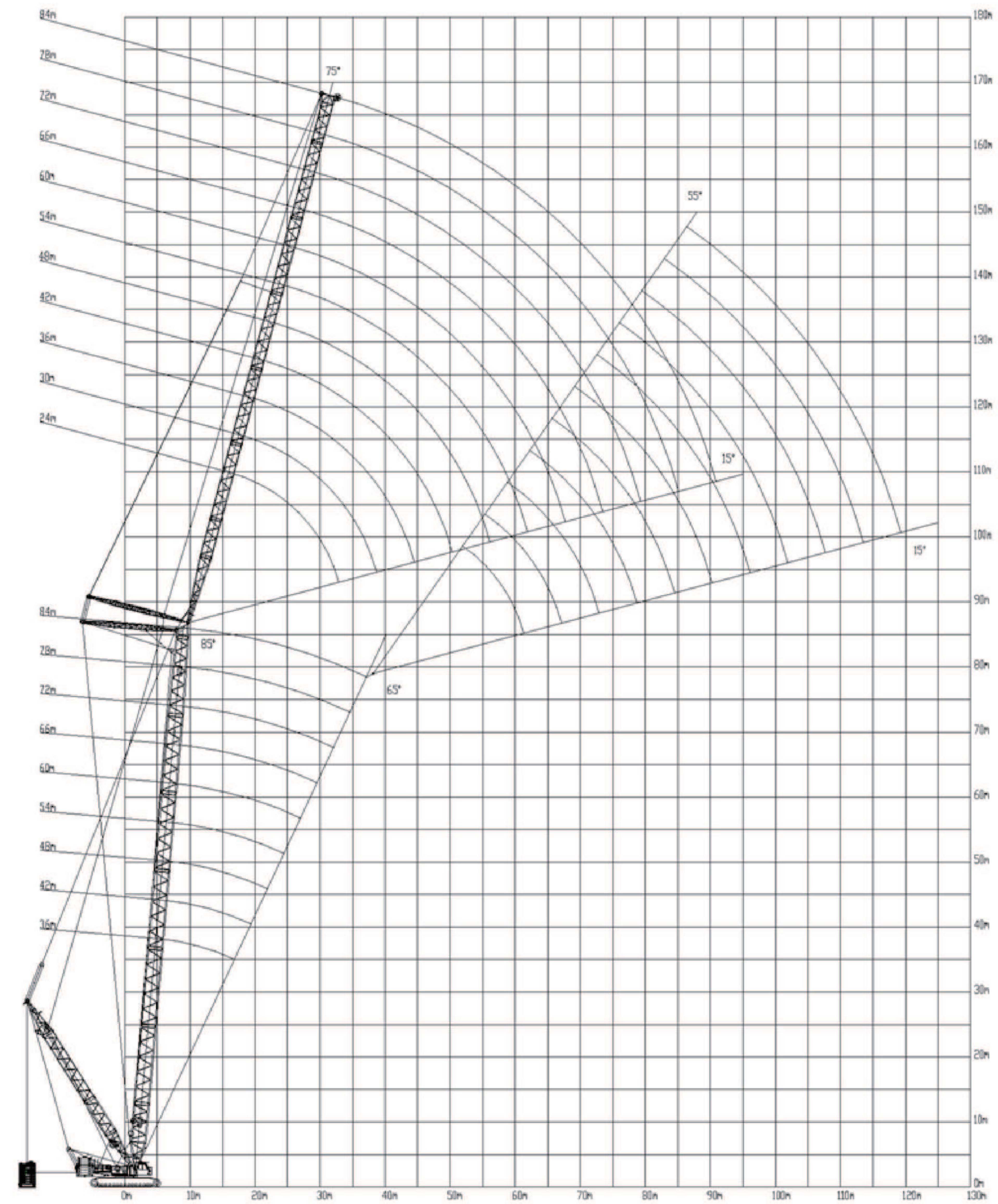
幅度Radius (m)	臂长 Boom length (m)								
	78	84	90	96	102	108	114	120	126
12	185	154.2							
14	184.8	154.2	129.7	114.8	96				
16	184.3	153.9	129.4	113.3	95.8	85.1	72.6	61.7	
18	183.7	153.5	129	113	95.4	84.7	72.2	61.3	52
20	182.8	153	128.4	112.5	95	84.3	71.9	60.9	51.5
22	181.7	152.3	127.8	112	94.5	83.9	71.4	60.5	51.2
24	180.5	151.6	127.2	111.4	93.9	83.5	71	60.1	50.7
26	179.2	150.8	126.5	110.8	93.5	83	70.5	59.8	50.3
28	169.9	149.8	125.7	110.1	92.9	82.5	70.1	59.3	49.8
30	155.8	148.8	124.9	109.5	92.3	82	69.6	58.8	49.4
32	143.7	143.4	124	108.8	91.6	81.5	69.1	58.4	48.8
34	133.1	132.8	123.1	108	91	80.9	68.6	57.6	48.4
36	123.9	123.6	122.2	107.2	90.4	80.3	68.1	57.1	47.5
38	115.7	115.4	115.4	106.5	89.7	79.8	67.6	56.6	46.4
40	108.5	108.2	108.1	105.7	89	79.2	67.1	55.7	45.7
42	101.9	101.7	101.6	100.9	88.1	78.6	66.5	54.7	44.4
44	96.1	95.8	95.8	95	86.5	78	66	53.5	43.4
46	90.8	90.5	90.4	89.7	85	77.4	65.5	52.5	42.5
48	85.9	85.6	85.6	84.8	83.6	76.8	64.8	51.4	41.6
50	81.5	81.2	81.2	80.4	80	76.1	63.7	50.6	40.8
52	77.4	77.2	77.1	76.3	76	75.1	62.6	49.5	39.9
54	73.7	73.4	73.4	72.6	72.2	71.4	61.6	48.6	39.2
56	70.2	70	69.9	69.1	68.8	67.9	60.7	47.8	38.4
58	67	66.8	66.7	65.9	65.6	64.7	59.7	47	37.4
60	64	63.8	63.7	63	62.6	61.7	59.6	46	36.6
62	61.2	61	61	60.2	59.8	59	57.9	45.2	35.7
64	58.6	58.4	58.4	57.6	57.2	56.4	56.3	44.5	34.9
66	56.2	55.9	55.9	55.2	54.8	53.9	53.9	43.6	34.2
68	53.9	53.7	53.6	52.9	52.5	51.7	51.6	42.7	33.4
70		51.5	51.5	50.7	50.4	49.5	49.4	42	32.8
72		49.5	49.5	48.7	48.3	47.5	47.4	41.4	32.2
74		47.5	47.5	46.8	46.4	45.6	45.5	40.6	31.6
76			45.7	45	44.6	43.8	43.7	40.1	31
78			44	43.3	42.9	42.1	42	39.4	30.6
80				41.6	41.3	40.4	40.4	39	30
84				38.6	38.3	37.4	37.4	37	29.1
88					35.5	34.7	34.7	34.2	28.4
92						32.2	32.2	31.8	27.6
96							29.9	29.5	27
100							27.8	27.4	26.3
104								25.5	25.2
108									23.4

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



臂长 Boom length (m)	中间臂节 Boom insert			
	塔臂 6m 重型节A	塔臂 6m 重型节B	塔臂 12m 重型节	塔臂 12m 轻型节
24	1	-	-	-
30	-	-	1	-
36	-	-	1	-
42	-	1	1	-
48	-	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

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



起升高度（米） Lifting height (m)

工作幅度（米）
Working radius (m)

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

主臂36m，主臂角度85°，转台平衡重110t+车身平衡重20t，超起平衡重半径15m，超起平衡重230t
Boom 36m , boom angle 85°,110t turntable counterweight+20t car-body counterweight+230t SL counterweight, SL counterweight radius 15m

幅度Radius (m)	主臂36米 Boom length 36m										
	24	30	36	42	48	54	60	66	72	78	84
14	185.0										
16	170.4	159.5									
18	158.7	149.7	139.7								
20	148.3	140.6	132.2	116.9	95.5						
22	139.0	132.4	125.2	116.3	95.1	78.7					
24	130.9	125.0	118.8	112.1	94.5	78.3	66.3				
26	123.7	118.3	112.8	106.9	93.9	77.8	65.9	55.8			
28	109.9	112.2	107.3	102.1	93.1	77.2	65.5	55.4	47.1		
30		106.8	102.2	97.6	92.2	76.5	65.1	55.0	46.7	38.7	32.6
32		102.0	97.6	93.4	88.9	75.8	64.6	54.6	46.3	38.4	32.3
34		88.6	93.4	89.5	85.4	75.1	64.0	54.1	45.9	38.0	32.0
36			89.4	85.8	81.7	72.2	63.5	53.7	45.5	37.7	31.6
38			81.4	82.5	77.7	68.6	62.9	53.2	45.1	37.3	31.3
40				76.7	73.9	65.3	62.3	52.7	44.7	36.9	31.0
42				70.7	69.9	62.1	61.6	52.2	44.3	36.6	30.7
44				63.3	65.2	59.2	58.7	51.7	43.9	36.2	30.3
46					60.8	56.4	55.8	51.2	43.4	35.8	30.0
48					56.5	53.9	52.9	49.4	43.0	35.5	29.7
50					52.2	51.5	50.0	47.1	42.6	35.1	29.4
52						48.6	47.2	44.8	41.5	34.7	29.1
54						45.4	44.5	42.6	39.7	34.4	28.8
56						42.3	41.9	40.4	37.9	34.0	28.5
58							39.3	38.2	36.1	33.7	28.2
60							36.8	36.1	34.3	32.4	27.9
62							34.3	34.0	32.6	31.0	27.6
64								32.0	30.9	29.7	26.7
66								30.0	29.2	28.4	25.7
68									27.5	27.1	24.6
70									25.8	25.8	23.6
72									24.2	24.6	22.6
74										23.3	21.5
76										22.1	20.5
78										20.9	19.5
80											18.5
82											17.6
86											16.6

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

主臂36m，主臂角度65°，转台平衡重110t+车身平衡重20t，超起平衡重半径15m，超起平衡重230t
Boom 36m ,boom angle 65°,110t turntable counterweight+20t car-body counterweight+230t SL counterweight, SL counterweight radius 15m

幅度Radius (m)	主臂36米 Boom length 36m										
	24	30	36	42	48	54	60	66	72	78	84
34	134.0										
36	125.3										
38	117.5	117.1									
40	110.5	110.2	109.5								
42		104.1	103.4								
44		98.5	97.8	97.1							
46		93.4	92.8	92.2							
48			88.3	87.7	79.0						
50			84.1	83.6	79.0						
52			80.2	79.7	76.3	63.8					
54				76.2	72.3	63.8					
56				72.0	68.2	61.0	53.4				
58					64.4	58.2	53.4	44.4			
60					61.0	55.6	53.4	44.4			
62					57.9	53.2	53.4	44.4	36.9		
64						50.9	52.7	44.4	36.9		
66						48.9	51.7	44.3	36.9	30.1	
68						47.0	50.2	43.8	36.9	30.1	
70							48.3	43.1	36.7	30.1	24.5
72							45.9	42.2	36.4	30.1	24.5
74							43.0	40.9	35.9	30.1	24.5
76								39.4	35.3	30.0	24.5
78								37.5	34.4	29.7	24.4
80								35.1	33.4	29.3	24.2
82									32.1	28.8	24.0
84									30.5	28.3	23.8
86										27.6	23.4
88										26.7	23.0
90										25.6	22.5
92											22.0
94											21.3
96											20.5

Courtesy of CraneMarket.com

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

主臂60m，主臂角度85°，转台平衡重110t+车身平衡重20t，超起平衡重半径15m，超起平衡重230t
Boom 60m ,boom angle 85°,110t turntable counterweight+20t car-body counterweight+230t SL counterweight, SL counterweight radius 15m

幅度Radius (m)	主臂60米 Boom length 60m										
	24	30	36	42	48	54	60	66	72	78	84
16	144.7										
18	137.8	121.5									
20	131.0	119.3	101.7								
22	124.6	116.6	100.5	85.9							
24	118.6	112.2	98.9	85.2	72.7	62.0					
26	108.4	103.2	96.5	84.2	72.2	61.8	53.4				
28	98.2	94.5	89.5	83.0	71.6	61.5	53.2	45.8			
30	89.0	86.3	82.7	78.0	70.9	61.1	52.9	45.7	39.4		
32		78.8	76.2	72.7	68.1	60.6	52.6	45.5	39.2	32.9	27.9
34		71.8	70.1	67.5	63.9	60.0	52.3	45.2	39.0	32.8	27.7
36		65.4	64.3	62.5	59.7	56.9	51.9	44.9	38.8	32.6	27.6
38			59.0	57.8	55.7	53.6	50.2	44.6	38.6	32.4	27.4
40			54.0	53.4	51.8	50.4	47.6	44.3	38.3	32.1	27.2
42				49.2	48.1	47.3	45.0	42.2	38.0	31.9	27.0
44				45.3	44.6	44.3	42.4	40.1	37.2	31.7	26.8
46				41.7	41.3	41.4	39.9	38.0	35.5	31.4	26.6
48					38.2	38.6	37.5	35.9	33.8	30.4	26.4
50					35.3	36.0	35.2	33.9	32.1	29.1	26.2
52					32.5	33.6	32.9	31.9	30.4	27.7	25.9
54						31.2	30.8	30.0	28.7	26.3	25.0
56						29.0	28.8	28.2	27.1	25.0	23.9
58						26.9	26.8	26.4	25.6	23.7	22.9
60							25.0	24.8	24.0	22.4	21.9
62							23.3	23.2	22.6	21.1	20.9
64							21.6	21.6	21.2	19.9	19.9
66								20.1	19.8	18.7	18.9
68								18.7	18.5	17.5	18.0
70								17.4	17.2	16.4	17.1
72									16.0	15.3	16.2
74									14.9	14.3	15.4
76										13.3	14.5
78										12.3	13.7
80										11.3	13.0
82											12.2
86											10.8

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

主臂60m，主臂角度65°，转台平衡重110t+车身平衡重20t，超起平衡重半径15m，超起平衡重230t
Boom 60m ,boom angle 65°,110t turntable counterweight+20t car-body counterweight+230t SL counterweight, SL counterweight radius 15m

幅度Radius (m)	主臂60米 Boom length60m										
	24	30	36	42	48	54	60	66	72	78	84
44	92.7										
46	88.0										
48	83.7	83.1									
50	79.6	79.2									
52		75.6	74.7								
54		72.2	71.5	67.6							
56		69.1	68.4	67.2							
58			65.6	64.9	57.1						
60			62.9	62.3	56.9						
62			60.3	59.9	56.0	48.6					
64				57.6	54.6	48.6					
66				53.6	52.6	48.6	41.6				
68					50.1	47.7	41.6	35.4			
70					47.1	46.4	41.6	35.4			
72					43.6	44.7	41.1	35.4	30.0		
74						42.6	40.2	35.4	30.0		
76						40.2	39.0	35.3	30.0	24.4	
78						37.4	37.5	34.7	30.0	24.4	
80							35.7	33.8	30.0	24.4	20.3
82							33.6	32.7	29.6	24.4	20.3
84							31.1	31.4	29.0	24.4	20.3
86								29.8	28.2	24.4	20.3
88								28.0	27.3	24.0	20.3
90								25.9	26.1	23.5	20.3
92									24.7	22.8	20.3
94									23.2	22.0	20.3
96									21.4	21.0	20.3
98										19.9	20.0
100										18.5	19.5
102											18.8
104											18.1
106											17.3

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

主臂84m，主臂角度85°，转台平衡重110t+车身平衡重20t，超起平衡重半径15m，超起平衡重230t
Boom 84m ,boom angle 85°,110t turntable counterweight+20t car-body counterweight+230t SL counterweight, SL counterweight radius 15m

幅度Radius (m)	主臂84米 Boom length 84m										
	24	30	36	42	48	54	60	66	72	78	84
18	80.3										
20	77.7	69.8									
22	74.9	67.9	60.7								
24	72.1	65.9	59.4	53.2							
26	69.4	63.8	57.9	52.3	46.6	41.4					
28	66.4	61.7	56.3	51.2	45.9	41.0	36.4				
30	61.2	58.6	54.7	50.1	45.1	40.5	36.1	32.1			
32	56.6	54.2	51.6	48.8	44.3	39.9	35.7	31.8	28.2		
34		50.2	48.0	45.7	43.1	39.3	35.3	31.6	28.0	24.0	
36		46.5	44.6	42.7	40.5	38.1	34.9	31.3	27.8	23.8	20.5
38		43.1	41.4	39.9	38.0	36.0	34.4	30.9	27.5	23.7	20.4
40			38.4	37.2	35.6	33.9	32.7	30.6	27.3	23.5	20.3
42			35.7	34.6	33.3	31.9	31.0	29.2	27.0	23.3	20.1
44				32.2	31.1	29.9	29.3	27.8	25.9	23.1	20.0
46				29.9	29.0	28.0	27.7	26.4	24.7	22.3	19.8
48				27.8	27.1	26.2	26.1	25.0	23.5	21.4	19.1
50					25.2	24.5	24.6	23.6	22.4	20.4	18.3
52					23.4	22.9	23.2	22.3	21.2	19.4	17.5
54					21.8	21.3	21.8	21.1	20.1	18.5	16.7
56						19.8	20.5	19.9	19.0	17.6	16.0
58						18.5	19.2	18.8	18.0	16.7	15.2
60						17.1	18.1	17.7	17.0	15.8	14.4
62							17.0	16.6	16.0	14.9	13.7
64							15.9	15.6	15.1	14.1	13.0
66							14.9	14.7	14.2	13.3	12.3
68								13.8	13.4	12.5	11.6
70								12.9	12.6	11.8	10.9
72								12.1	11.8	11.1	10.3
74									11.1	10.4	9.7
76									10.4	9.8	9.1
78										9.2	8.5
80										8.6	8.0
82										8.0	7.5
86											6.5
88											16.0

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

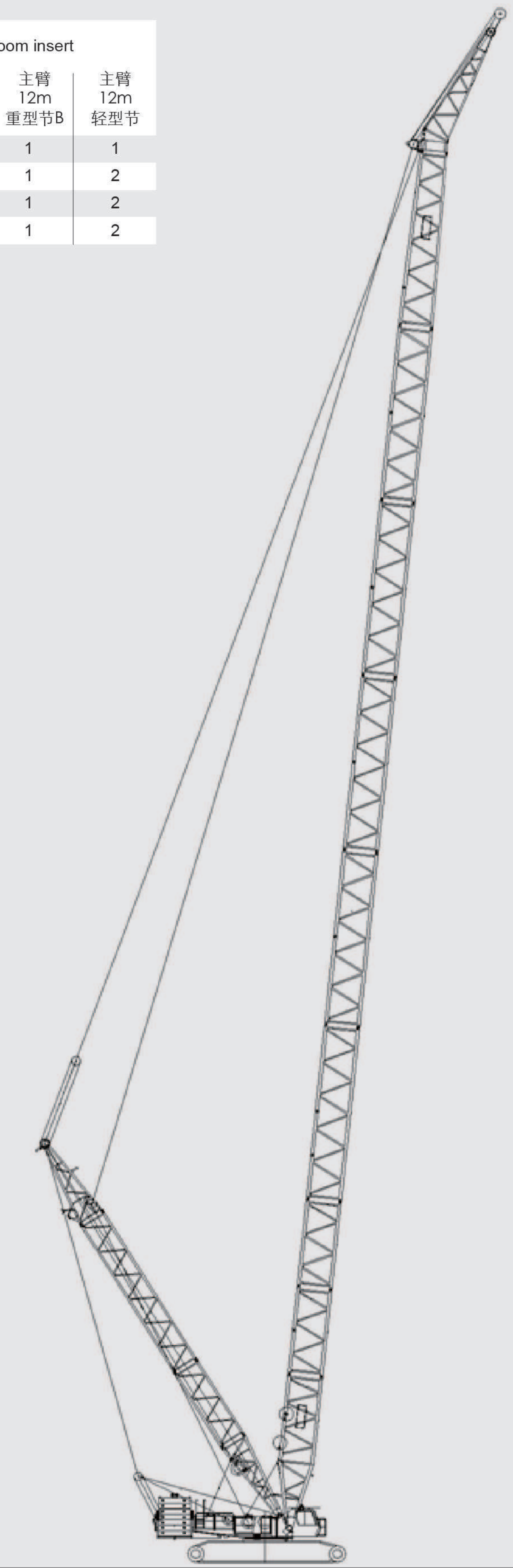
主臂84m，主臂角度65°，转台平衡重110t+车身平衡重20t，超起平衡重半径15m，超起平衡重230t
Boom 84m ,boom angle 65°,110t turntable counterweight+20t car-body counterweight+230t SL counterweight, SL counterweight radius 15m

幅度Radius (m)	主臂84米 Boom length 84m										
	24	30	36	42	48	54	60	66	72	78	84
54	58.6										
56	56.8										
58	54.5	51.5									
60	51.5	50.1									
62		48.3	44.7								
64		46.1	43.6	39.5							
66		43.5	42.2	39.0							
68			40.4	38.1	34.3						
70			38.4	37.0	33.9						
72			35.9	35.6	33.3	29.9					
74				34.0	32.4	29.6					
76				32.1	31.2	29.0	26.9				
78				29.9	29.9	28.3	26.8	23.6			
80					28.4	27.4	26.5	23.6			
82					26.7	26.4	26.0	23.5	20.5		
84						25.2	25.4	23.3	20.5		
86						23.8	24.7	23.0	20.5	17.1	
88						22.2	23.9	22.5	20.3	17.1	
90							22.9	21.9	20.1	17.1	14.3
92							21.8	21.3	19.7	17.1	14.3
94							20.6	20.5	19.3	17.0	14.3
96								19.6	18.8	16.7	14.3
98								18.7	18.2	16.4	14.2
100								17.6	17.5	16.0	14.1
102									16.7	15.6	13.8
104									15.9	15.1	13.5
106									15.0	14.5	13.2
108										13.8	12.8
110										13.1	12.4
112											11.9
114											11.3
116											10.7

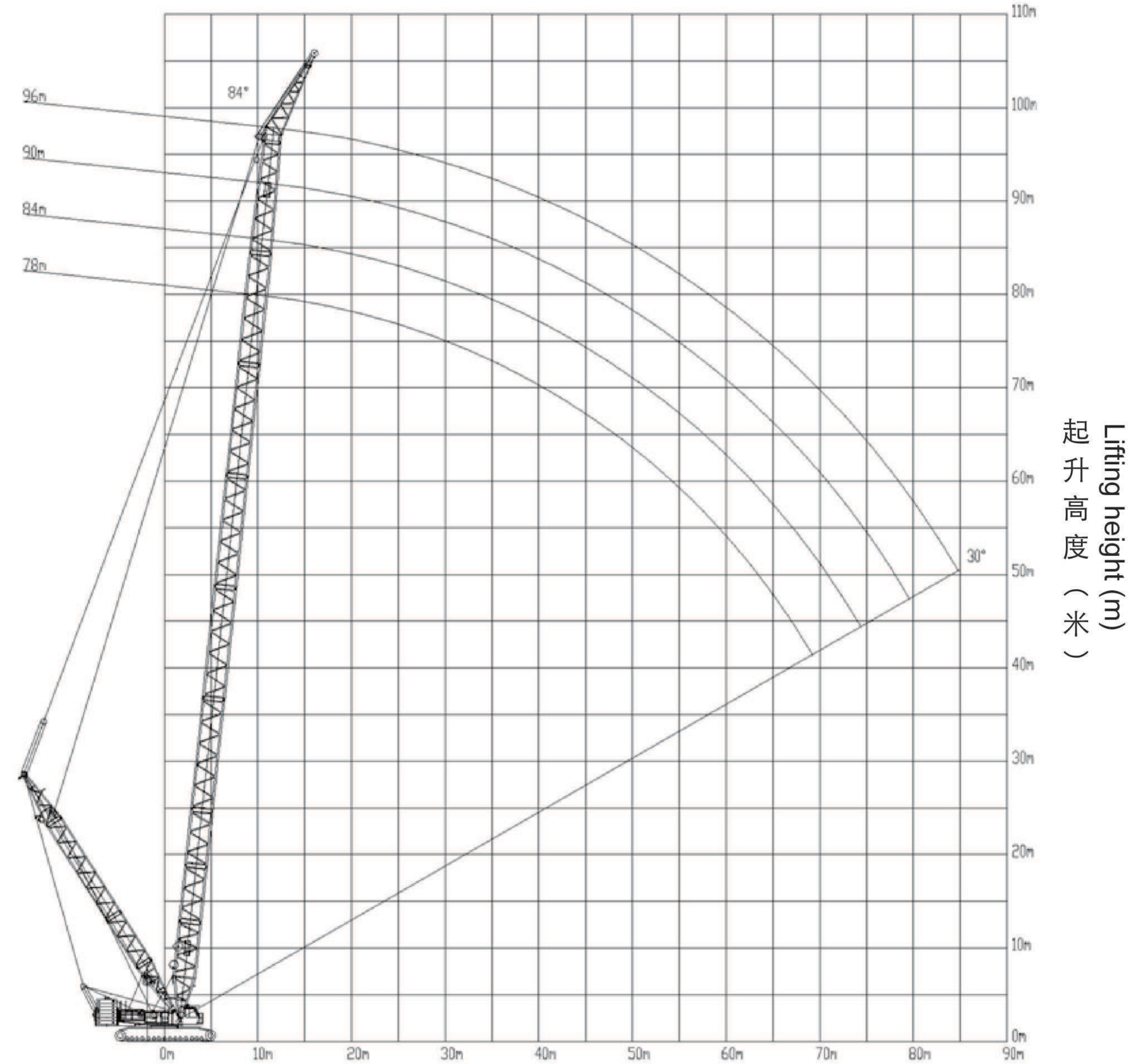
超起工况专用副臂臂节组合（选配）
SL Mode Special Jib Combinations/ Special Jib（Optional）

臂长 Boom length （m）	中间臂节 Boom insert			
	主臂 6m 重型节	主臂 12m 重型节A	主臂 12m 重型节B	主臂 12m 轻型节
78	1	2	1	1
84	-	2	1	2
90	1	2	1	2
96	2	2	1	2

注：超起工况专用副臂为选装工况



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



工作幅度（米）
Working radius (m)

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

150t转台平衡重+40t车身平衡重+0t超起平衡重，超起平衡重半径15m，副臂安装角度21.6°
150t turntable counterweight+40t car-body counterweight+0t SL counterweight, SL counterweight radius 15m,special jib angle 21.6°

幅度Radius (m)	臂长 Boom length (m)			
	78	84	90	96
14	116			
15	116	115.3	101.4	
16	116	115.3	101.4	89.6
18	103.2	101.5	99.8	89.5
20	90.5	89.1	87.5	85.9
22	80.2	79	77.5	76.1
24	71.3	70.6	69.3	67.9
26	63.4	63	62.3	61
28	56.8	56.4	55.7	54.8
30	51.2	50.8	50.1	49.3
32	46.4	45.9	45.2	44.5
34	42.2	41.8	41	40.3
36	38.6	38.1	37.3	36.6
38	35.3	34.8	34.1	33.3
40	32.4	31.9	31.2	30.4
42	29.9	29.4	28.6	27.8
44	27.5	27	26.2	25.4
46	25.4	24.9	24.1	23.3
48	23.5	23	22.2	21.3
50	21.7	21.2	20.4	19.6
52	20.1	19.6	18.8	17.9
54	18.6	18.1	17.3	16.4
56	17.2	16.7	15.9	15
58	15.9	15.4	14.6	13.7
60	14.7	14.2	13.4	12.5
62	13.6	13.1	12.2	11.4
64	12.5	12	11.2	10.3
66	11.5	11	10.2	9.4
68	10.6	10.1	9.3	8.4
70	9.7	9.2	8.4	7.6
72	8.9	8.4	7.6	6.7
74	8.1	7.6	6.8	5.9
76	7.3	6.9	6	5.2
78		6.2	5.3	
80		5.5		

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；
- 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、15t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13t，性能表中的额定起重量小于13t时按性能表起吊。

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.
- 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, 15t capacity hook block and slings.
- The max. rated lifting load for single top is 13t (include the weight of hook block, slings and hoist wire rope), if rated lifting load in above tables is less than 13t, load lifting is according to the table.