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QUY100履带起重机 QUY100 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

XCMG.CONSTRUCTION MACHINERY CO.,LTD.BUILDING MACHINERY CO.

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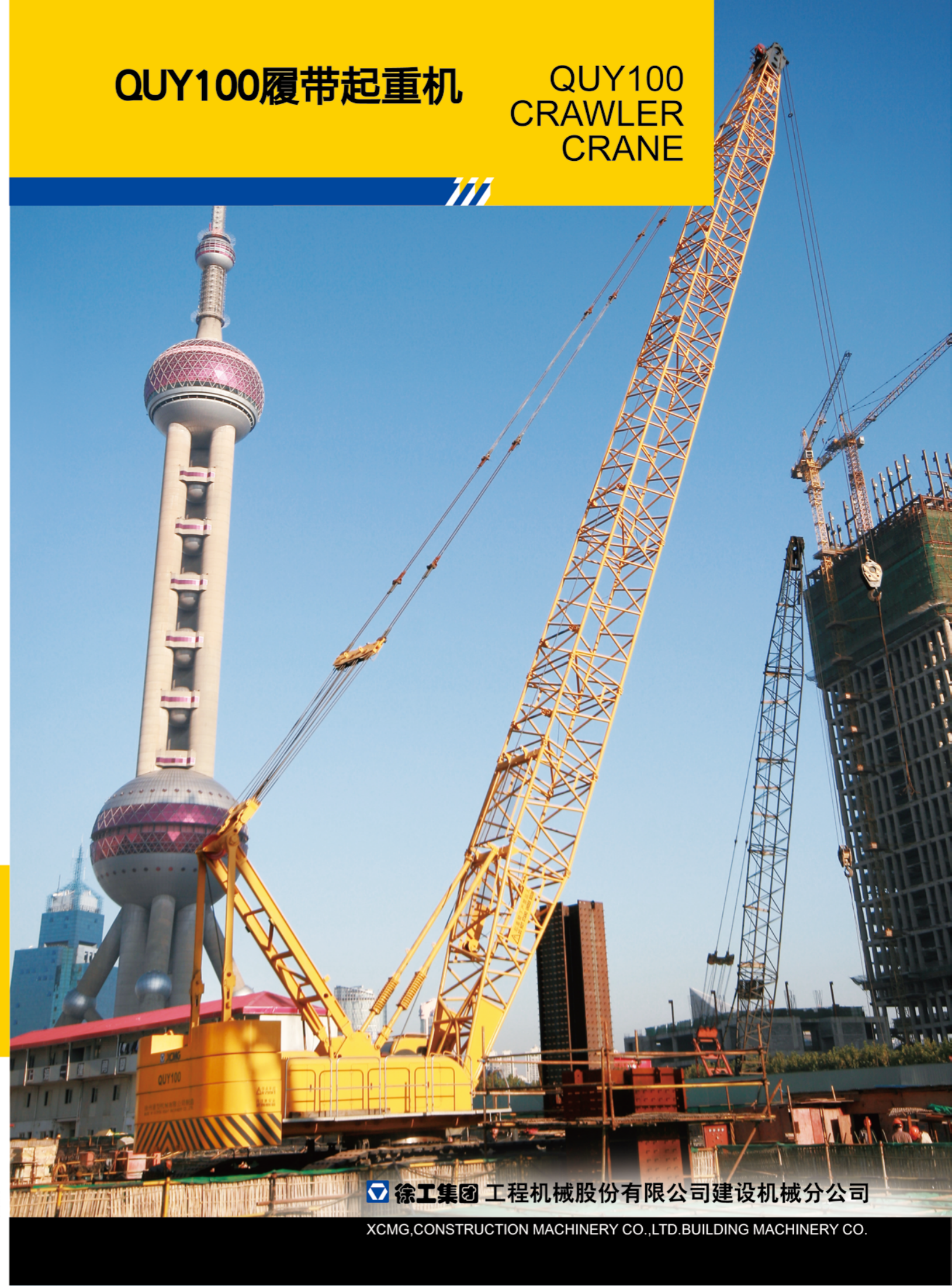
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QUY100履带起重机

QUY100 CRAWLER CRANE



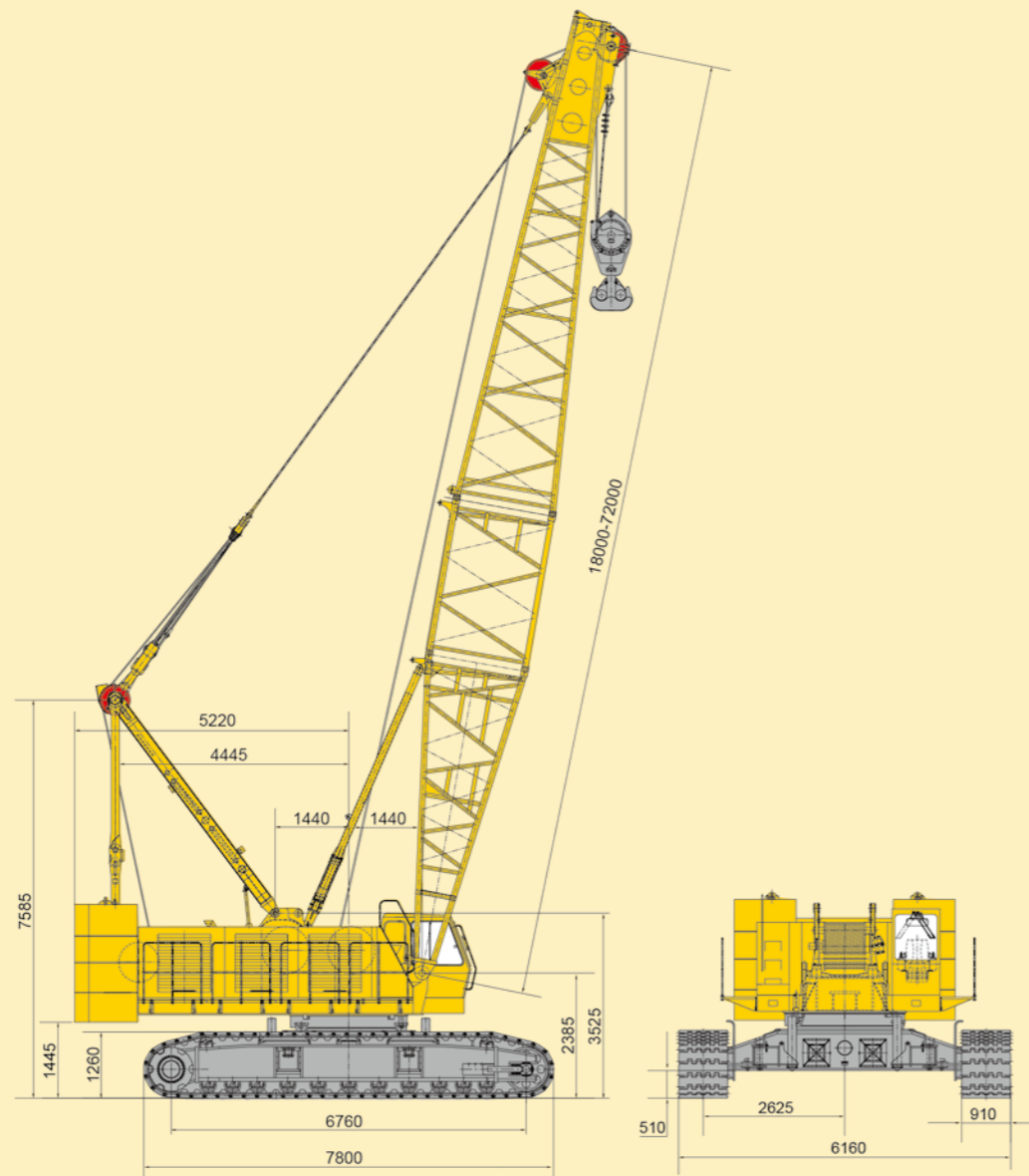
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技术性能参数/整机基本尺寸 Technical Specification/Overall Dimension

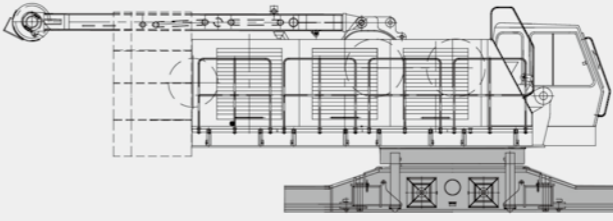
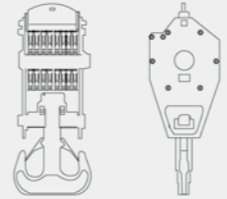
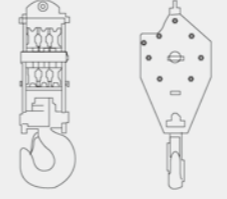
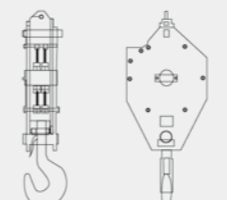
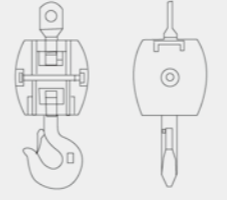

主要零部件 Main Parts

项目 Items	单位 Unit	数值 Data	
基本型主臂 Basic boom	t	100	
最大额定起重量 Max. rated lifting capacity	固定副臂 Fixed jib	t	11
	臂端单滑轮 Boom single top	t	10
最大起重力矩 Max. load moment	t.m	5500	
主臂长度 Boom length	m	18~72	
主臂变幅角度 Boom elevating angle	°	30~80	
固定副臂长度 Fixed jib length	m	12~24	
起升机构最大单绳速度 (空载、第五层) Winch mechanism max. single line speed (no load, at 5th layer)	m/min	100	
主臂变幅机构最大单绳速度 (第一层) Boom elevating mechanism max. single line speed (at 1st layer)	m/min	45	
最大回转速度 Max. slewing speed	r/min	1.4	
最高行驶速度 Max. traveling speed	km/h	1.1	
爬坡度 Grade ability	%	30	
平均接地比压 Average ground pressure	MPa	0.0927	
发动机功率 Engine power	kW	200	
整机质量(主吊钩, 13米臂) Mass of the vehicle as a whole (including main hook block and 13m boom)	t	114	
运输状态单件最大质量 Max. mass of single unit in travel configuration	t	40	
运输状态单件最大尺寸 (长×宽×高) Max. dimension of single unit in travel configuration (L×W×H)	m	9.6×3.3×3.3	

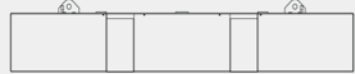


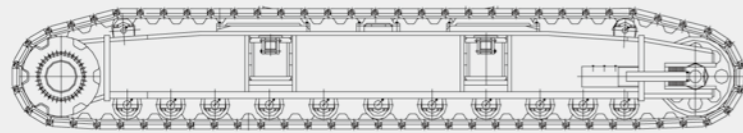
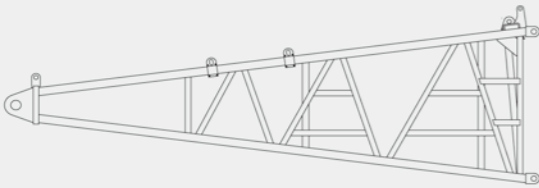



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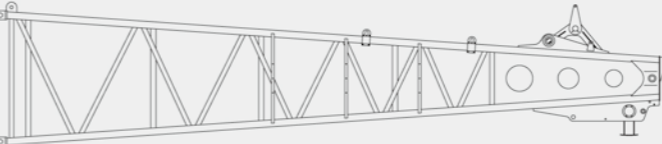
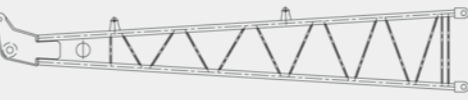
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	主机 Main Unit	× 1
	长 L	9600mm
	宽 W	3300mm
	高 H	3300mm
	重量 Weight	40000kg
	100t吊钩 Capacity Hook Block	× 1
	长 L	1870mm
	宽 W	770mm
	高 H	650mm
	重量 Weight	1530kg
	65t吊钩 Capacity Hook Block	× 1
	长 L	1770mm
	宽 W	770mm
	高 H	440mm
	重量 Weight	990kg
	30t吊钩 Capacity Hook Block	× 1
	长 L	1555mm
	宽 W	770mm
	高 H	350mm
	重量 Weight	710kg
	11t吊钩 Capacity Hook Block	× 1
	长 L	940mm
	宽 W	470mm
	高 H	470mm
	重量 Weight	460kg
	上车1号配重 Superstructure Weight Counterbalance I	× 1
	长 L	4100mm
	宽 W	1200mm
	高 H	562mm
	重量 Weight	10500kg

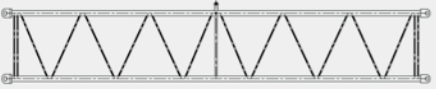
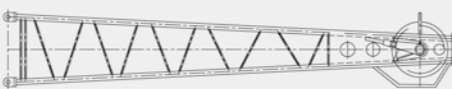
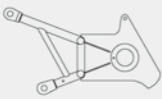
主要零部件 Main Parts

	上车2号配重 Superstructure Weight counterbalance II × 1
	长 L 4100mm
	宽 W 1200mm
	高 H 560mm
	重量 Weight 10800kg
	上车3号配重 Superstructure Weight counterbalance III × 1
	长 L 4100mm
	宽 W 1200mm
	高 H 490mm
	重量 Weight 9800kg
	上车4号配重 Superstructure Weight counterbalance IV × 1
	长 L 4100mm
	宽 W 1200mm
	高 H 590mm
	重量 Weight 9500kg
	履带架 Track Frame × 2
	长 L 7800mm
	宽 W 1100mm
	高 H 1500mm
	重量 Weight 14489kg
	主臂底节臂 Boom Butt × 1
	长 L 6140mm
	宽 W 2200mm
	高 H 2220mm
	重量 Weight 2450kg
	主臂3米节A 3m Boom Insert A × 1
	长 L 3130mm
	宽 W 1980mm
	高 H 1980mm
	重量 Weight 608kg

主要零部件 Main Parts

	主臂3米节B 3m Boom Insert B × 2
	长 L 3130mm
	宽 W 1980mm
	高 H 1980mm
	重量 Weight 498kg
	主臂6米节 6m Boom Insert × 2
	长 L 6130mm
	宽 W 1980mm
	高 H 1980mm
	重量 Weight 830kg
	主臂9米节A 9m Boom Insert A × 3
	长 L 9130mm
	宽 W 1980mm
	高 H 1980mm
	重量 Weight 1160kg
	主臂9米节B 9m Boom Insert B × 1
	长 L 9130mm
	宽 W 1980mm
	高 H 1980mm
	重量 Weight 1190kg
	主臂顶节臂 Boom top × 1
	长 L 9560mm
	宽 W 1980mm
	高 H 2110mm
	重量 Weight 1680kg
	固定副臂底节臂 Fixed Jib Butt × 1
	长 L 6250mm
	宽 W 1100mm
	高 H 900mm
	重量 Weight 390kg

主要零部件 Main Parts

	固定副臂6米节 Fixed Jib Insert 6m	× 2
	长 L	6180mm
	宽 W	1100mm
	高 H	900mm
重量 Weight		280kg
	固定副臂顶节臂 Fixed Jib top	× 1
	长 L	6450mm
	宽 W	1100mm
	高 H	900mm
重量 Weight		370kg
	加长臂 Extension	× 1
	长 L	1300mm
	宽 W	720mm
	高 H	720mm
重量 Weight		140kg

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 Detailed Introduction

上车

发动机

采用沃尔沃TAD722VE电控发动机，EDC4控制器，额定功率200kW，额定转速为2300rpm，最大输出扭矩1050N·m。排放符合欧洲工程机械第二阶段排放标准。

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液比例控制功能，实现起重机的自动控制，大大提高起重机的作业安全性、可靠性和作业效率。本机的操作可以通过电脑的大屏幕显示出来，很方便的实现了人机对话。

液压系统

采用液比例控制，开闭式回路相结合，恒功率变量泵系统。
液压系统组成：起升系统，变幅系统，回转系统，行走系统，辅助安装系统。
特点：起升系统、变幅系统、行走系统采用开式系统，主泵为恒功率变量泵，液压先导控制变量，具有功率限制，压力切断功能，可以满足多个执行元件动作要求。

起升机构

主、副起升型号相同，单独驱动，双泵合流供油；片式常闭制动器，力士乐内藏式减速机。主、副起升机构与转台采用销轴连接，便于组装。驱动马达、平衡阀、起升钢丝绳均为德国进口。最大速度可达100m/min，具有优良的调速性能，起升机构还具有换油方便、低噪音、高效率、长寿命等特性。

变幅机构

主臂变幅机构采用内藏式减速机（力士乐公司），片式常闭制动器。卷筒设有棘轮锁止装置，以实现机械制动，安全可靠。主臂变幅机构与转台采用销轴连接，便于组装。驱动马达、平衡阀、变幅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，由一个行星减速机（力士乐公司）组成，与回转支承内啮合。液压缓冲，具有自由滑转功能。行星齿轮减速机，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。

上车配重

上车1号配重：10.5t 共1块；
上车2号配重：10.8t 共1块；
上车3号配重：9.8t 共1块；
上车4号配重：9.5t 共1块；

Crane Superstructure

Engine

It is a VOLVO 722V electrical control engine with EDC4 controller, rated output power 200kW, rated rotation speed 2300 rpm and maximum output torque 1050N.m. Emission is in compliance with European Construction Machinery Stage II.

Control System

Intelligent computer integrated programmable control system is the key technology of the crane. PLC programmable controller is used, in combination with conventional electrics, to realize the logic and the hydraulic proportional control functions of the system, and to improve safety, reliability and efficiency of the crane operation. Crane operation can be shown by a larger computer display, which is convenient for man-machine interaction.

Hydraulic System

It takes hydraulic proportional control, close/open type circuit, constant power and variable displacement pump system.
Hydraulic system: winch system, elevating system, slewing system, tower jib backstop, propel system, auxiliary assembly system.
Features: winch, elevating and propel systems use open type system; main pump is a constant power and variable displacement pump, wherein, variable displacement is controlled by hydraulic pilot, with the function of power limit and pressure cut-off. Main pump may satisfy the requirement of multiple actuator movement.

Winch System

Main/auxiliary winch has the same model, is driven independently and oil supplied by confluence of two pumps. It takes disc type constant closed brake and built-in speed reducer; main/auxiliary winch and turntable are connected by pin shaft, easy for assembly. Its maximum speed is 100m/min, with good fine speed performance. Winch system also features easy oil replacement, low noise, high efficiency and long service life.

Elevating System

Boom elevating system has built-in speed reducer (Rexroth), and disc-type constant closed brake; winch drum has a ratchet locking device to realize safely and reliably mechanical braking. Boom elevating system connects with turntable by pin shaft, which makes assembly easily. Drive motor, balance valve and elevating wire rope are all imported from Germany.

Slewing System

Slewing system is arranged at the left of the turntable. The planetary reducer(Rexroth) is internal meshed with the slewing ring. It has the function of hydraulic buffering and free sliding. Controllable constant-closed disc brake of the planetary reducer works reliably and is easy for maintenance.

Slewing Bearing

It takes the slewing bearing made by Xuzhou Rothe Erde, with stable and reliable quality.

Superstructure Counterweight

ISuperstructure Counterweight I: 10.5t, 1slab
Superstructure Counterweight II: 10.8t, 1 slab
Superstructure Counterweight III: 9.8t, 1 slab
Superstructure Counterweight IV: 9.5t, 1 slab

详细介绍 Detailed Introduction

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、灭火装置等，宽敞舒适。

转台

转台采用箱型与单腹板混合的结构，该结构整体稳定性好。转台是联系上下车的关键承载结构件。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、人字架、臂架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。车架和履带架采用插入式连接，履带架的拆装则可利用辅助吊车进行吊装。

车架

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

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。两个履带架对称布置，装有宽度为0.91m的履带板。

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，每个减速机由德国进口的轴向柱塞变量马达驱动，可同步操作，也可单独操纵，以实现直行和转弯。

行走速度

变量马达可以实现无级变速，最高速度1.1公里/小时。行走时，设备运行平稳，可实现快速行走。



作业装置

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

Operator's Cabin

Operator's cabin is steel frame structure. Its front windshield is provided with overall sandwich glass, other glass is all hardened glass. Equipped with adjustable seat, a set of ergonomic designed instruments and control devices, air-conditioner, CD player, fire extinguisher and so on, the cabin is comfortable.

Turntable

Turntable is a mixed structure of box type and single web plate, with good overall stability. Turntable is a key structural part linking crane superstructure with and crane carrier for load bearing. It connects with the carrier through slewing bearing. Operator's cabin, winch system, elevating system, engine, gantry, mast, boom and counterweight etc. respectively connect with the turntable at different positions.



Crane Carrier

Crane carrier comprises car-body, track frame, and propel unit. Car-body and track frame take insert-type connection. Track frame realizes extension and retraction by the driving of hydraulic cylinder. When transporting, track frame needn't be removed, and can be transported together with turntable and car-body.

Car-body

Car-body uses high strength H-shape structure. With cross panel installed in the middle to strengthen its stiffness against torsion, it features simple structure, high loading capacity and well rigidity.

Track Frame

Track frame consists of track beam, drive sprocket, idler wheel, upper roller, lower roller and track. Crawler beam takes box-shape structure. Its connection position with frame is strengthened partially, and cross panel is installed in the middle of it. Two track frames are symmetrically arranged, with track blocks of 0.91m width.

Propel Unit

Propel unit has built-in planetary gear reducer and hydraulic release service brake imported from Germany. Each reducer is driven by German imported axial piston variable displacement motor, can be operated synchronously or independently to realize straight travel and turning around.

Traveling Speed

Variable displacement motor can realize infinite variable speed whose maximum value is 1.1 km/h.



Lifting Operation Parts

Lifting boom comprises main boom and fixed jib, both of which are lattice structure of four tubular chords with intermediate equal section and two end variable section, wherein, main boom chord use imported high strength tube and web rod use domestic high quality tube.

详细介绍 Detailed Introduction

主臂

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。主臂配置臂端单滑轮机构，主臂长度为18~72m。

组成：底节臂6m、中间节臂3m×3、中间节臂6m×2、中间节臂9m×4、顶节臂9m。

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39~60米范围内进行作业，其作业长度为12~24m，含10°及30°两种安装角。

固定副臂通过支架及固定副臂前、后拉索与主臂连为一体，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5.2m。

组成：底节臂6m、中间节臂6m×2、顶节臂6m。

人字架

人字架是重要结构件之一，前足采用箱形双肢结构，后足采用可折叠式拉板，前足装有油缸，用于起落人字架。

吊钩

标准配置：100t吊钩、65t吊钩、30t吊钩、11t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、起重臂防后翻装置、起升高度限位装置、风速仪、水平仪、液压系统的溢流阀、平衡阀、双向液压锁、回转警告等。

力矩限制器

检测功能：力矩限制器能自动检测出起重臂的角度、起重载荷，
显示功能：实时的显示当前实际载荷，工作半径，起重臂角度。
警示功能：如果检测到实际载荷超过额定载荷，起重臂超过极限角度，力矩限制器发出报警并限制当前动作。

主、副提升过卷装置

当主、副卷扬上升到一定高度时候，仪表板上的过卷保护指示灯亮，同时力矩限制器停止起升动作。

主、副提升过放装置

此保护功能由安装在卷筒内部接近开关检测到卷筒上的钢丝绳剩下三卷时候，仪表板上的指示灯亮，同时力矩限制器自动停止起升落动作。

Boom

Main boom is the lattice structure of intermediate equal section and two end variable section and welded by steel tubes. Boom top and boom foot are reinforced by steel plates for load transfer and boom is equipped with single top, boom length: 18m~72m.

Construction: boom butt 6 m, boom insert 3m×3, boom insert 6m×2, boom insert 9m×4, boom top 9m.

Fixed Jib

Fixed jib is the lattice structure of intermediate equal section and two end variable section and welded by steel tubes. Jib top and jib foot are reinforced by steel plates for load transfer.

Fixed jib can be operated within the range of boom length 39~60m, and lifting operation length is 12~24m, with two offset angle of 10° and 30°.

Fixed jib is connected with boom by supporting strut and front and rear guy cables, and reach its working radius with raising and lowering of boom elevating system. Fixed jib supporting strut is A-shaped two chords box type structure with good stability a length of 5.2m.

Construction: jib butt 6m, jib insert 6m×2, jib top 6m.

Gantry

It takes electronic proportional control, close/open type circuit, constant power Gantry is one of the important structural parts, its front part is box-type structure of twin tubular chord and equipped with oil cylinder for lifting and lowering gantry and the rear part is folded pendant.

Hook Block

Standard configuration: 100t capacity hook block, 65t capacity hook block, 30t capacity hook block and 11t capacity hook block.



Safety Devices

Safety devices comprise: load moment limiter, turntable lock pin, boom backstop, height limiter, anemometer, level gauge, hydraulic overflow valve, balance valve, two-way hydraulic lock, slewing warning, etc.

Load Moment Limiter

Detection function: automatically detect boom angle and lifting load.
Display function: real time display current actual load, working radius and boom angle.

Warning function: automatically send out warning signal and stop crane operation when detecting actual load exceeding rated load and boom out of limit angle.

Main/Auxiliary Winch Over-Wind Protection Device

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

Main/Auxiliary Winch Over-Release Protection Device

It takes the slewing bearing made by Xuzhou Rothe Erde, with stable and reliable quality.

详细介绍 Detailed Introduction

棘爪锁止装置

该功能用于锁定变幅卷扬，起重臂降落的时候必须打开该装置，否则不能降落，用于保护臂架在非工作时安全停放。

起重臂角度限制

主起重臂仰角在80°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°时停止起重臂降落，由力矩限制器控制。

声光报警器

在履带起重机做回转动作的时候灯闪烁并且发出声音报警。

力限器三色报警灯

由三种颜色组成，负载在90%以下时“绿灯”亮，表示起重机在安全区域运行，负载在90%-100%的时候“黄灯”亮，表示起重机在已接近额定载荷范围，负载在100%-105%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。

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，传送到操纵室的监视器上，提醒司机操作的安全性。

Winch Ratchet Locking Device

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

Boom Angle Limit

When boom angle is more than 80°, load moment limiter and hoist limit switch stop boom rising. When boom angle is less than 30°, load moment limiter stops boom lowering.

Audio/Video Warning

When crawler crane is slewing, the device blinks and warns.

LMI 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 that crane is running in safety; when crane loading is in 90%~100% of total rated lifting load, "Yellow Lamp" lights on to indicate that crane is close to total rated lifting load; when crane loading is above 100%~105% of total rated lifting load, "Red Lamp" lights on to indicate that crane is overloaded; In dangerous area, control system can automatically cut off crane movement to dangerous direction.

Illumination Lamp

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

Height Mark Lamp

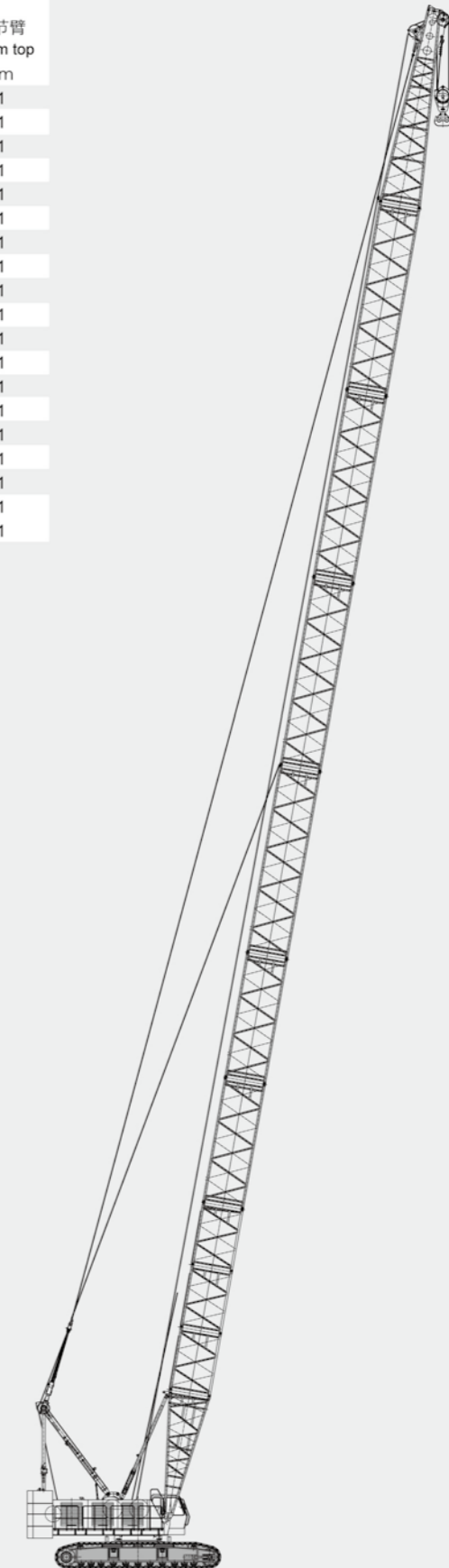
Boom tip has a height mark lamp for high level operation warning.

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.

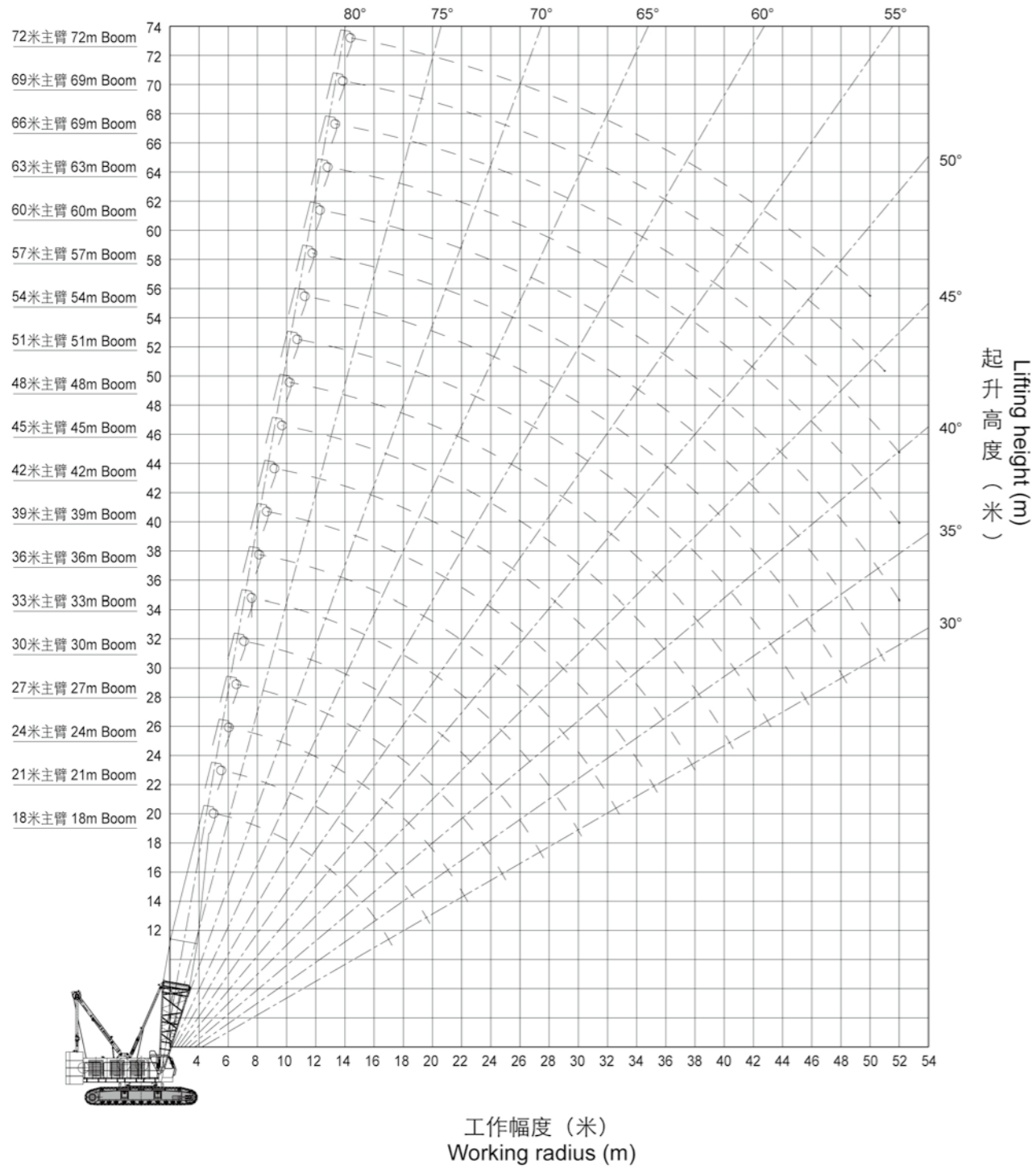
主臂臂节组合/主臂工况 Boom Combinations/Boom Working Condition

臂长 Boom length (m)	底节臂 Boom butt 6m	中间臂节 Boom insert			顶节臂 Boom top 9m
		3m	6m	9m	
18	1	1	-	-	1
21	1	2	-	-	1
24	1	3	-	-	1
27	1	2	1	-	1
30	1	3	1	-	1
33	1	2	2	1	1
36	1	2	1	1	1
39	1	3	1	1	1
42	1	2	2	1	1
45	1	2	1	2	1
48	1	3	1	2	1
51	1	2	2	2	1
54	1	2	1	3	1
57	1	3	1	3	1
60	1	3	-	4	1
63	1	2	1	4	1
66	1	3	1	4	1
69	1	2	2	4	1
72	1	3	2	4	1



主臂作业范围 Boom Working Area

主臂工况载荷表 Boom Working Condition and Lifting Load Chart



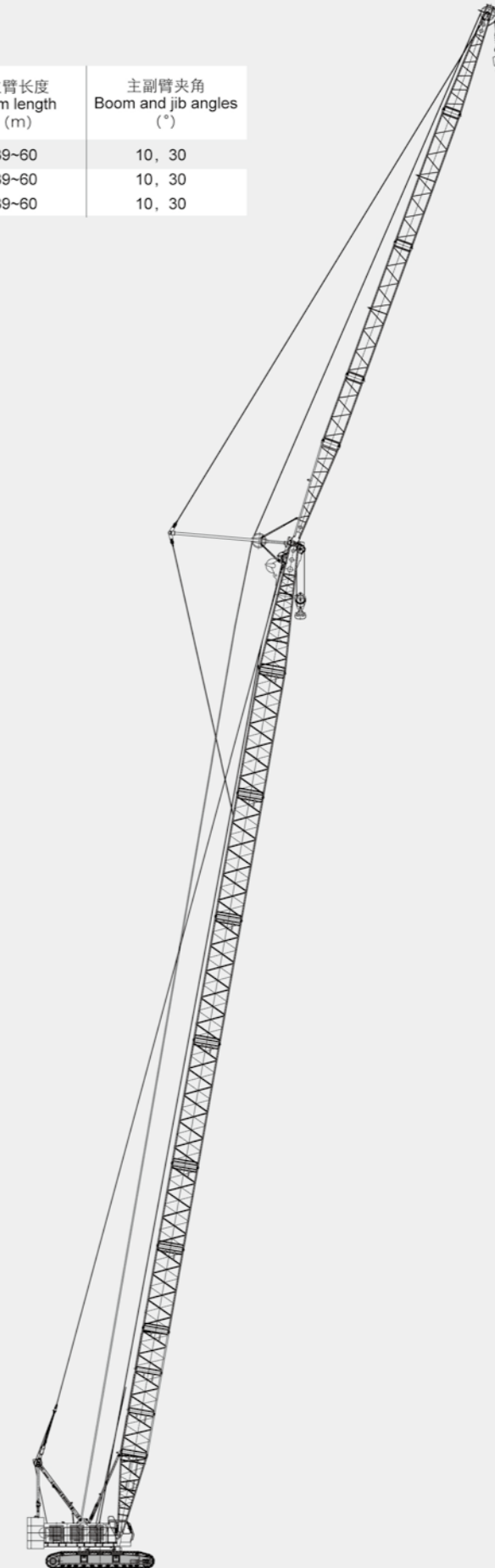
幅度 Radius (m)	臂长 Boom length (m)								
	18	21	24	27	30	33	36	39	42
5	100.0								
5.5	100.0	90.0/5.5							
6	91.6	90.0	80.6/6.1	70.0/6.6					
7	78.7	77.9	76.7	70.0	60.0/7.1	56.7/7.6			
8	65.3	64.6	64.9	64.0	60.0	56.0	50.0/8.1	46.1/8.7	
9	54.7	54.6	54.4	54.3	54.2	53.7	50.0	45.7	40.0/9.2
10	47.0	46.8	46.7	46.6	46.4	46.3	46.3	44.3	40.0
12	36.5	36.3	36.1	36.1	35.9	35.7	35.7	35.5	35.4
14	29.8	29.5	29.3	29.2	29.0	28.9	28.8	28.6	28.5
16	24.1	24.8	24.6	24.5	24.3	24.1	24.0	23.8	23.7
18	19.8/17.2	21.3	21.0	20.9	20.7	20.6	20.5	20.3	20.2
20		17.2/19.8	18.4	18.2	18.0	17.8	17.8	17.5	17.4
22			15.8	16.1	15.9	15.7	15.6	15.4	15.3
24			14.6/22.4	14.4	14.1	14.0	13.9	13.6	13.5
26				12.7/25.0	12.7	12.5	12.4	12.2	12.1
28					11.0/27.6	11.3	11.2	10.9	10.8
30						10.2	10.2	9.9	9.8
32						9.6/30.2	9.3	9.0	8.9
34							8.5/32.8	8.3	8.1
36								7.3/35.4	7.4
38									6.7

主臂工况载荷表 Boom Working Condition and Lifting Load Chart

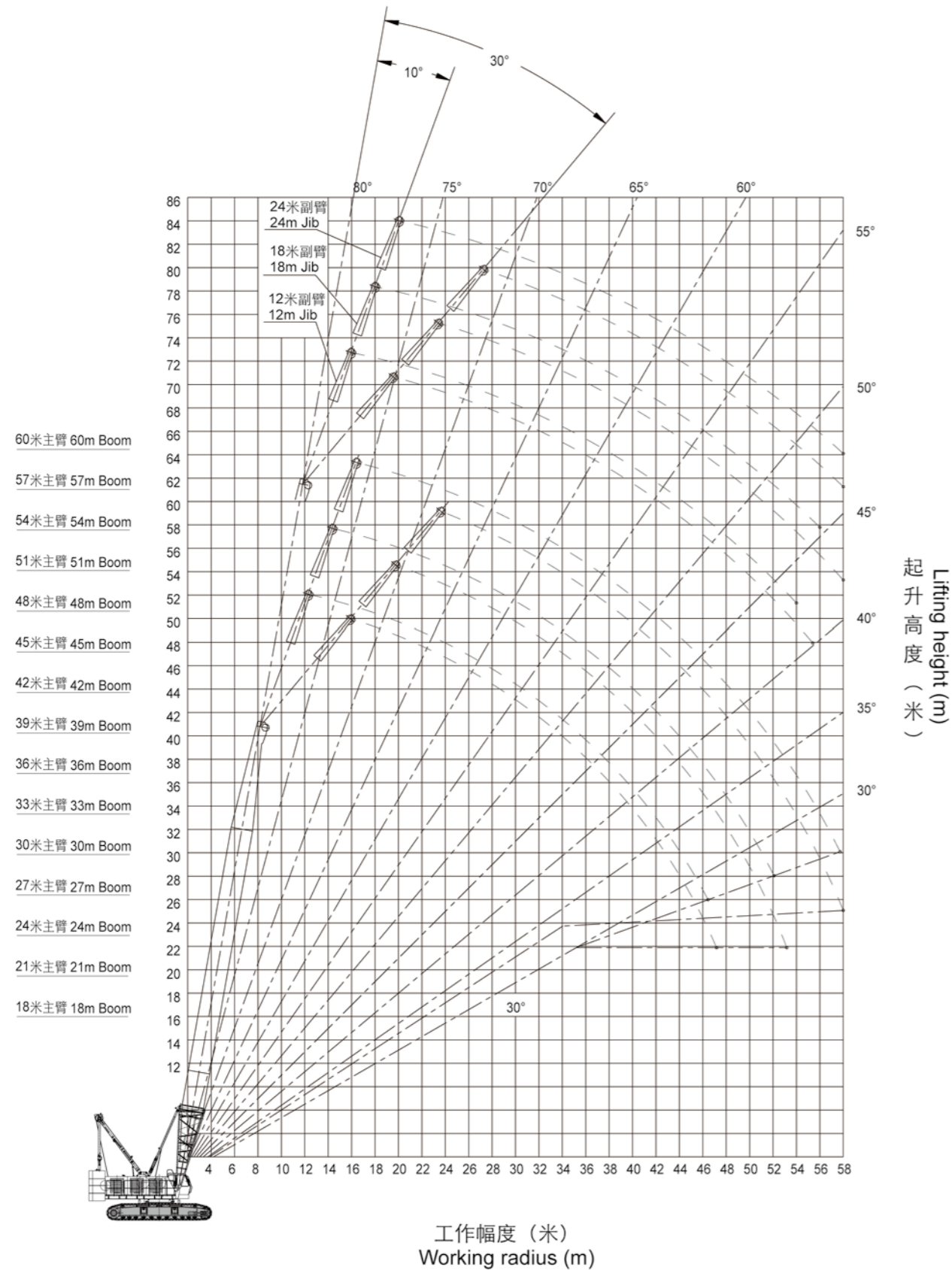
幅度 Radius (m)	臂长 Boom length (m)									
	45	48	51	54	57	60	63	66	69	72
9	40.0/9.7									
10	40.0	30.0/10.2	30.0/10.7	28.4/11.3	26.0/11.8					
12	35.3	30.0	30.0	27.9	25.9	20.0/12.3	20.0/12.8	19.2/13.3		
14	28.4	28.3	28.2	26.6	25.0	20.0	20.0	19.0	17.6/13.9	15.8/14.4
16	23.6	23.5	23.3	23.2	23.0	20.0	20.0	18.1	16.8	15.2
18	20.0	19.9	19.8	19.6	19.4	19.4	19.2	17.3	16.0	14.5
20	17.3	17.2	17.0	16.9	16.6	16.6	16.5	16.3	15.3	13.8
22	15.1	15.0	14.8	14.7	14.5	14.4	14.3	14.1	13.9	12.9
24	13.4	13.2	13.1	12.9	12.7	12.6	12.5	12.3	12.1	11.9
26	11.9	11.8	11.6	11.4	11.2	11.2	11.0	10.8	10.6	10.4
28	10.7	10.5	10.4	10.2	10.0	9.9	9.8	9.6	9.4	9.2
30	9.6	9.5	9.3	9.2	8.9	8.9	8.7	8.5	8.3	8.1
32	8.7	8.6	8.4	8.3	8.0	8.0	7.8	7.6	7.4	7.2
34	8.0	7.8	7.6	7.5	7.2	7.2	7.0	6.8	6.6	6.4
36	7.3	7.1	6.9	6.8	6.5	6.5	6.3	6.1	5.9	5.7
38	6.7	6.4	6.3	6.2	5.9	5.9	5.7	5.5	5.3	5.0
40	6.1	6.0	5.8	5.6	5.4	5.3	5.1	4.9	4.6	4.3
42	5.5/40.6	5.4	5.3	5.1	4.9	4.8	4.6	4.3	4.1	3.8
44		4.7/43.2	4.8	4.7	4.4	4.3	4.1	3.8	3.5	3.2
46			4.1	4.3	4.0	3.8	3.6	3.0	3.1	2.8
48			3.9/46.5	3.6	3.5	3.4	3.2	2.9	2.6	2.3
50				3.3/48.4	3.1	3.0	2.8	2.5	2.3	2.0
52					2.5/51.0	2.6	2.4	2.1	2.0/51.5	

固定副臂臂节组合/副臂工况 Fixed Jib Combinations/Jib Working Condition

副臂长度 Jib length (m)	中间节 Jib insert	主臂长度 Boom length (m)	主副臂夹角 Boom and jib angles (°)
12	-	39~60	10, 30
18	1	39~60	10, 30
24	2	39~60	10, 30



固定副臂作业范围 Fixed Jib Working range



固定副臂工况载荷表 Fixed Jib Working Condition and Lifting Load Chart

主臂长度 Boom length (m)	主臂39米 Boom length 39m						主臂48米 Boom length 48m					
	12		18		24		12		18		24	
副臂长度 Jib length (m)	副臂角度 Jib angle (°)											
幅度 Radius (m)	10	30	10	30	10	30	10	30	10	30	10	30
12	11.0/12.3						11.0/13.8					
14	11.0	8.5/15.9	10.0/14.3				11.0		10.0/15.9			
16	11.0	8.5	10.0		6.5/16.4		11.0	8.5/17.4	10.0		6.5/17.9	
18	11.0	8.5	10.0		6.5		11.0	8.5	10.0		6.5	
20	11.0	8.5	10.0	6.5/19.7	6.5		11.0	8.5	10.0	6.5/21.3	6.5	
22	11.0	8.5	10.0	6.5	6.5	4.5/23.6	11.0	8.5	10.0	6.5	6.5	
24	11.0	8.5	10.0	6.5	6.5	4.5	11.0	8.5	10.0	6.5	6.5	4.5/25.2
26	11.0	8.5	10.0	6.5	6.5	4.5	11.0	8.5	10.0	6.5	6.5	4.5
28	11.0	8.5	10.0	6.5	6.5	4.5	11.0	8.5	10.0	6.5	6.5	4.5
30	10.7	8.5	10.0	6.5	6.5	4.5	10.1	8.5	10.0	6.5	6.5	4.5
32	9.7	8.5	10.0	6.5	6.5	4.5	9.1	8.5	9.4	6.5	6.5	4.5
34	8.8	8.5	8.3	6.5	6.5	4.5	8.3	8.5	8.6	6.5	6.5	4.5
36	8.1	8.3	8.1	6.5	6.5	4.5	7.5	7.8	7.8	6.5	6.5	4.5
38	7.4	7.6	7.6	6.5	6.5	4.5	6.8	7.1	7.1	6.5	6.5	4.5
40	6.8	7.0	7.0	6.5	6.5	4.5	6.2	6.5	6.5	6.5	6.5	4.5
42	6.3	6.4	6.5	6.5	6.3	4.5	5.7	5.9	5.9	6.3	6.1	4.5
44	5.8	5.9	6.0	6.5	6.2	4.5	5.2	5.4	5.5	5.8	5.6	4.5
46	5.4	5.4	5.6	6.2	5.7	4.5	4.8	4.9	5.0	5.3	5.2	4.5
48	5.1/46.5	5.0/47.2	5.2	5.8	5.3	4.5	4.4	4.5	4.6	4.9	4.8	4.5
50			4.8	5.3	5.0	4.5	4.0	4.1	4.2	4.5	4.4	4.5
52			4.5	4.9	4.6	4.5	3.6	3.7	3.8	4.1	4.1	4.4
54			4.3/52.1	4.6	4.3	4.4	3.2	3.3	3.1	3.7	3.4	4.0
56				4.2/53.2	4.0	4.2	3.0/54.2	2.9/55.0	3.1	3.4	3.4	3.7
58					3.7/57.7	3.9			2.8	3.0	3.1	3.4

固定副臂工况载荷表

Fixed Jib Working Condition and Lifting Load Chart

主臂长度 Boom length (m)	主臂54米 Boom length 54 (m)						主臂60米 Boom length 60(m)					
	12		18		24		12		18		24	
副臂长度 Jib length (m)	副臂角度 Jib angle (°)											
幅度 Radius (m)	10	30	10	30	10	30	10	30	10	30	10	30
14	11.0/14.9						11.0/15.9					
16	11.0	8.5/18.5	10.0/16.9				11.0					
18	11.0	8.5	10.0			6.5/19.0	11.0	8.5/19.5	10.0		6.5	
20	11.0	8.5	10.0			6.5	11.0	8.5	10.0		6.5	
22	11.0	8.5	10.0	6.5/22.3	6.5		11.0	8.5	10.0	6.5/23.4	6.5	
24	11.0	8.5	10.0	6.5	6.5	4.5/26.2	11.0	8.5	10.0	6.5	6.5	
26	11.0	8.5	10.0	6.5	6.5	4.5	11.0	8.5	10.0	6.5	6.5	4.5/27.2
28	11.0	8.5	10.0	6.5	6.5	4.5	10.7	8.5	10.0	6.5	6.5	4.5
30	9.8	8.5	10.0	6.5	6.5	4.5	9.5	8.5	10.7	6.5	6.5	4.5
32	8.8	8.5	9.1	6.5	6.5	4.5	8.5	8.5	9.8	6.5	6.5	4.5
34	8.0	8.4	8.3	6.5	6.5	4.5	7.6	8.1	8.8	6.5	6.5	4.5
36	7.2	7.6	7.5	6.5	6.5	4.5	6.8	7.3	7.9	6.5	6.5	4.5
38	6.5	6.9	6.8	6.5	6.5	4.5	6.2	6.5	7.1	6.5	6.5	4.5
40	5.9	6.2	6.2	6.5	6.4	4.5	5.6	5.9	6.5	6.4	6.1	4.5
42	5.4	5.7	5.6	6.1	5.8	4.5	5.0	5.3	5.8	5.8	5.5	4.5
44	4.9	5.1	5.1	5.5	5.3	4.5	4.4	4.8	5.3	5.2	5.0	4.5
46	4.4	4.7	4.7	5.1	4.9	4.5	3.9	4.3	4.8	4.8	4.5	4.5
48	3.9	4.2	4.3	4.6	4.5	4.5	3.4	3.8	4.3	4.3	4.0	4.5
50	3.5	3.7	3.8	4.2	4.1	4.5	3.0	3.3	3.8	3.8	3.6	4.2
52	3.1	3.3	3.4	3.8	3.7	4.2	2.6	2.9	3.3	3.4	3.2	3.8
54	2.8	2.9	3.1	3.4	3.3	3.8	2.3	2.5	2.9	3.0	2.8	3.4
56	2.4	2.6	2.7	3.0	3.0	3.4		2.1/55.4	2.6	2.6	2.5	3.0
58	2.1	2.2	2.4	2.7	2.6	3.0			2.2	2.2	2.1	2.6

载荷表说明:

- 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、多台起重合力起吊) 限制或降低起重机的起重量;
- 表中额定起重量包括吊钩、钢丝绳、和其它所有吊具的重量;
- 表中没有列出额定值的空白区, 不允许将起重机用于该区所对应的起重作业;
- 表中起重量为带上车全配重的起重量;
- 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、11t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10t, 性能表中的
- 额定起重量小于10t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 conditions 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 load, 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 in these
- The total rated lifting loads are the lifting capacity for crane with superstructure counterweight and carrier counterweight.
- Boom can be equipped with a single top, whose lifting load is the total rated lifting loads in above table decrease the weight of single sheave, 11t capacity hook block and slings.
- The max. rated lifting load for single top can't exceed 10t (include the weight of hook block, slings and hoist wire rope), if rated lifting load in above tables is less than 10t, load lifting should be in accordance with the table.