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TWCC150 履带起重机
TWCC150 CRAWLER CRANE

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TWCC150履带起重机

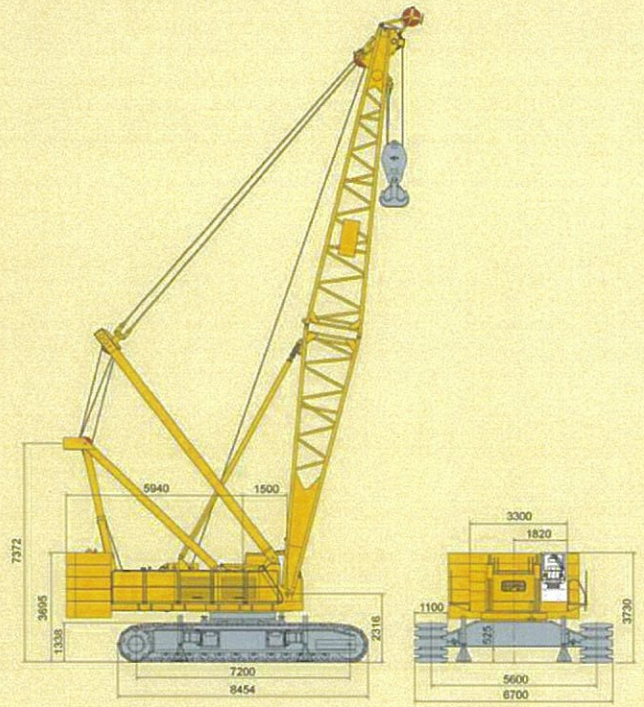
TWCC150
CRAWLER
CRANE

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.

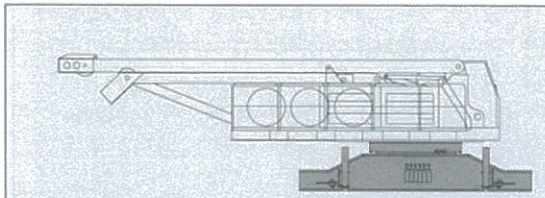
目 录 CONTENTS

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. rated lifting capacity	基本型主臂 Basic boom	t	150
	固定副臂 Fixed jib	t	15
最大起重力矩 Max. load moment		t•m	840
主臂长度 Boom length		m	19~82
主臂变幅角度 Boom elevating angle		(°)	-3~82
固定副臂长度 Fixed jib length		m	12~30
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	120
变幅机构最大单绳速度(空载、第五层) Elevating mechanism max. single line speed(no load, at 5th layer)		m/min	30
最大回转速度 Max. slewing speed		r/min	1.5
最大行走速度 Max. traveling speed		km/h	1.1
爬坡度 Grade ability		%	30
平均接地比压 Average ground pressure		Mpa	0.093
发动机功率 Engine power		kW	220
整机质量(主吊钩，19米臂) Mass of the vehicle as a whole (including main hook block and 19m boom)		t	150
运输状态单件最大质量 Max. mass of single unit in travel configuration		t	53
运输状态单件(转台)最大尺寸(长×宽×高) Max. dimension of single unit in travel configuration (L×W×H)		m	11.5x3.3x3.3



主要零部件
Main Parts



主机 Main Unit ×1

长 L	11450mm
宽 W	3300mm
高 H	3260mm
重量 Weight	53000kg

150t吊钩 Capacity Hook Block ×1

长 L	2248mm
宽 W	1040mm
高 H	850mm
重量 Weight	2400kg

100t吊钩 Capacity Hook Block ×1

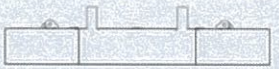
长 L	1870mm
宽 W	700mm
高 H	650mm
重量 Weight	1530kg

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	1550mm
宽 W	770mm
高 H	350mm
重量 Weight	710kg



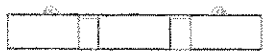
上车1号配重 Superstructure Weight Counterbalance I ×1

长 L	4400mm
宽 W	1510mm
高 H	948mm
重量 Weight	13000kg

上车2号配重 Superstructure Weight counterbalance II ×1

长 L	4400mm
宽 W	1510mm
高 H	530mm
重量 Weight	10000kg

主要零部件
Main Parts

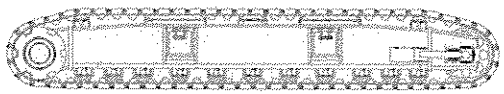


上车3号配重
Superstructure Weight counterbalance III ×2

长L	4400mm
宽W	1510mm
高H	530mm
重量 Weight	10500kg

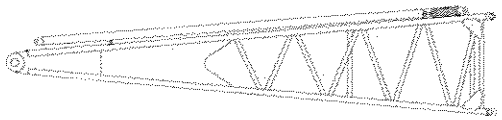
上车4号配重
Superstructure Weight counterbalance IV ×1

长L	4400mm
宽W	1510mm
高H	530mm
重量 Weight	8000kg



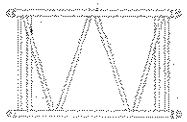
履带架
Track Frame ×2

长L	8454mm
宽W	1100mm
高H	1338mm
重量 Weight	21500kg



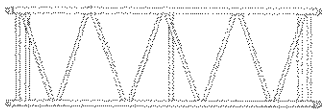
主臂底节臂
Boom Butt ×1

长L	9240mm
宽W	2130mm
高H	2100mm
重量 Weight	3200kg



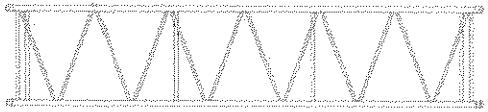
主臂3米节
Boom Insert ×2

长L	3130mm
宽W	2130mm
高H	1930mm
重量 Weight	523kg



主臂6米节
Boom Insert ×1

长L	6130mm
宽W	2130mm
高H	1930mm
重量 Weight	973kg



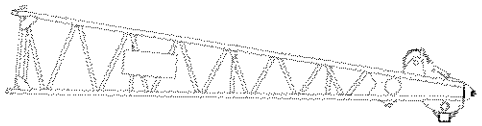
主臂9米节
Boom Insert ×3

长L	9130mm
宽W	2130mm
高H	1930mm
重量 Weight	1272kg

主要零部件
Main Parts

主臂12米节
Boom Insert ×2

长L	12130mm
宽W	2130mm
高H	1930mm
重量 Weight	1594kg



主臂顶节臂
Boom Top ×1

长L	10480mm
宽W	2130mm
高H	2050mm
重量 Weight	2470kg

主臂臂端单滑轮
Boom Single Top ×1

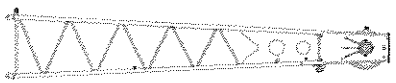
长L	1030mm
宽W	1160mm
高H	970mm
重量 Weight	163kg

固定副臂底节臂
Fixed Jib Butt ×1

长L	6230mm
宽W	1082mm
高H	690mm
重量 Weight	384kg

固定副臂中间节
Fixed Jib Insert ×3

长L	6100mm
宽W	1082mm
高H	690mm
重量 Weight	275kg



固定副臂顶节臂
Fixed Jib Top ×1

长L	6430mm
宽W	1082mm
高H	690mm
重量 Weight	373kg

说　明 Notes

- 以上零部件图纸仅为示意图，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

采用沃尔沃TAD941VE六缸、水冷、增压、电喷发动机，额定功率220kW、额定转速为2000rpm、最大输出扭矩1401N•m，排放符合欧洲工程机械第三阶段排放标准。

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，实现系统的逻辑控制与电比例控制功能，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，较方便的实现了人机对话。

液压系统

采用电比例控制，开式回路，交叉传感变量泵系统。
液压系统组成：起升回路、变幅系统、回转系统、行走系统、辅助安装系统。
特点：采用开式系统，主泵为交叉传感变量泵，液压先导控制变量，具有功率限制功能，可以满足多个执行元件动作要求。回转控制精准，起制动、换向平稳，可以满足频繁换向，微动操作。

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。最大绳速可达120m/min，具有很好的微速性能。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

主臂变幅为一个双联卷筒独立驱动。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，卷筒设有棘轮棘爪装置，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、平衡阀均为德国进口。

回转机构

回转机构布置在转台前部内侧，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，稳定可靠。

上车配重

配重布置在转台的后部，由下至上分布为
1号配重：13t　共1块；
2号配重：10t　共1块；
3号配重：10.5t　共2块；
4号配重：8t　共1块；

Crane Superstructure

Engine

It is a VOLVO original 6-cylinder, water cooled, supercharging and intercooled electric spray TAD941VE engine with rated output power 220kW, rated rotation speed 2000 rpm and maximum output torque 1401N.m. Emission is in compliance with European Construction Machinery Stage III.

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 electronic 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 electronic 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 crossed sensing variable displacement pump, wherein variable displacement is controlled by hydraulic pilot, with a function of power limit. Main pump may satisfy the requirement of multiple actuator movement. Slewing system has the advantages of quick response, accurate control, stable starting, braking and direction changing, and can satisfy the operation of frequent direction changing and fine motion.

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 from Rexroth, main/auxiliary winch and turntable are connected by pin shaft, easy for assembly. Its maximum speed is 120m/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 safety 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 front of the turntable and 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 6-row roller type slewing bearing made by Xuzhou Rothe Erde, with stable and reliable quality.

Superstructure Counterweight

Counterweights locate on the rear of turntable, from the top down they are:
Superstructure Counterweight I: 13t, 1slab
Superstructure Counterweight II: 10t, 1 slab
Superstructure Counterweight III: 10.5t, 2 slab
Superstructure Counterweight IV: 8t, 1 slab

操纵室

操纵室采用钢制框架结构，前窗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、视频监控系统等，安全舒适。

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连接，操纵室、起升机构、变幅机构、发动机、人字架、桅杆、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

车架采用高强钢板，箱形结构，中间设置横隔板，加强段抗扭刚度，结构简单，承载能力强，刚度好。

履带架

包括履带梁和四轮一带。履带梁采用箱形结构，与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1.1m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，可实现微速行走。

作业装置

起重臂包括主臂和固定副臂，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，增强了臂架抗弯曲的能力。

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19～82m。
组成：底节臂9m，中间节臂3m×2，中间节臂6m×1，中间节臂9m×3，中间节臂12m×2，顶节臂10m。

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, monitor 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. The assembly and disassembly of the track frame can be aided by another crane.

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 1.1m 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.

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: 19m~82m.
Construction: boom butt 9 m, boom insert 3m×2, boom insert 6m× 1, boom insert 9m× 3, boom insert 12m× 2, boom top 10m.

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46~73米范围内进行，操作臂长度为12~30m，有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。
组成：底节臂6m、中间节臂6m×3、顶节臂6m。

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 46~73m and lifting operation length is 12~30m, 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.
Construction: jib butt 6m, jib insert 6m×3, jib top 6m

桅杆

桅杆结构为箱形双肢结构，该结构整体稳定性好，装有桅杆顶升油缸，用来起落桅杆及人字架。在自拆装时，可作为桅杆吊，用于拆装臂架。

Mast

It takes box-type structure of twin tubular chord with a good stability and equipped with oil cylinder for lifting and lowering mast and gantry. When self assembly and disassembly, it can be used as mast crane to mount and demount boom.

人字架

人字架是重要结构件之一，前支架采用箱形双肢结构，后支架为可折叠式拉板。

Gantry

Gantry is one of the important structural parts, its front part is box-type structure of twin tubular chord and the rear part is folded pendant.

吊钩

标配：150t吊钩、100t吊钩、65t吊钩、30t吊钩

Hook Block

Standard configuration: 150t capacity hook block, 100t capacity hook block, 65t capacity hook block and 30t capacity hook block.

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、风速仪、水平仪、液压系统的溢流阀、平衡阀、双向液压锁、回转警铃等。

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.

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：当它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危险动作。

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.

主、副提升过卷装置

当主、副卷扬起升到一定高度的时候，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。

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.

主、副提升过放装置

过放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圈时候，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。

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 operation.

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。

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.

详细介绍
Detailed Introduction

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重控制。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。

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.

监控系统（选配）

由两个摄像头和一个监视器组成，分别监控主、副卷扬和变幅卷扬。

Monitoring System

It consists of two cameras and one monitor to monitor the main, auxiliary and derrick winches respectively.

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。

Audio/Video Warning

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

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%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。

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, Both "Red Lamp" and "Yellow Lamp" lights on to indicate that crane is overloaded. In dangerous area, control system can automatically cut off crane movement to dangerous direction.

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 the 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.

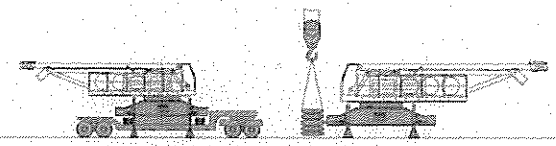
风速仪

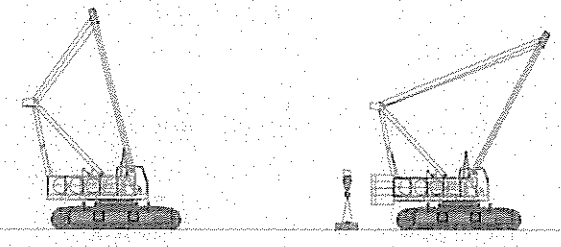
实时检测当前风速，传送到操纵室的显示器上，提醒司机操作的安全性。

Anemometer

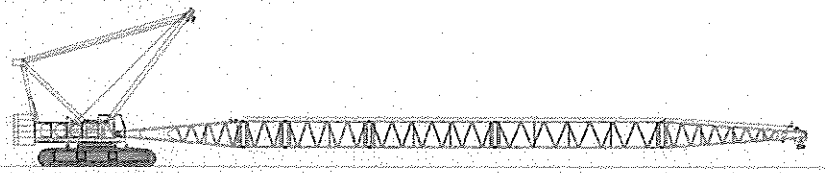
Anemometer at boom head can detect current wind speed and send wind signal to a monitor in operator's cabin to alert operator for safety.

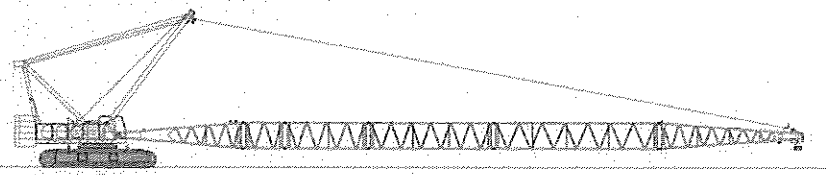
组装
Assembly



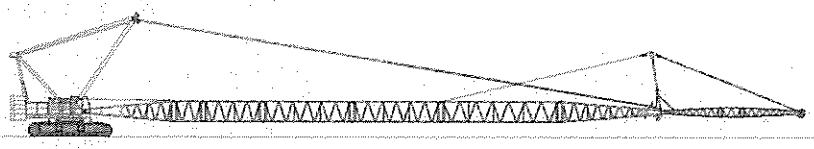


主臂安装示意图
Diagrams for Assembling Boom



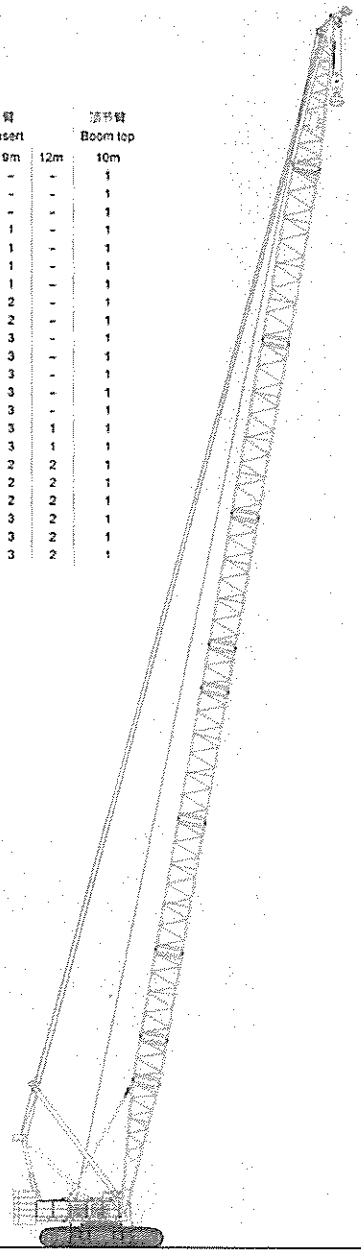


固定副臂安装示意图
Diagrams for Assembling Fixed Jib

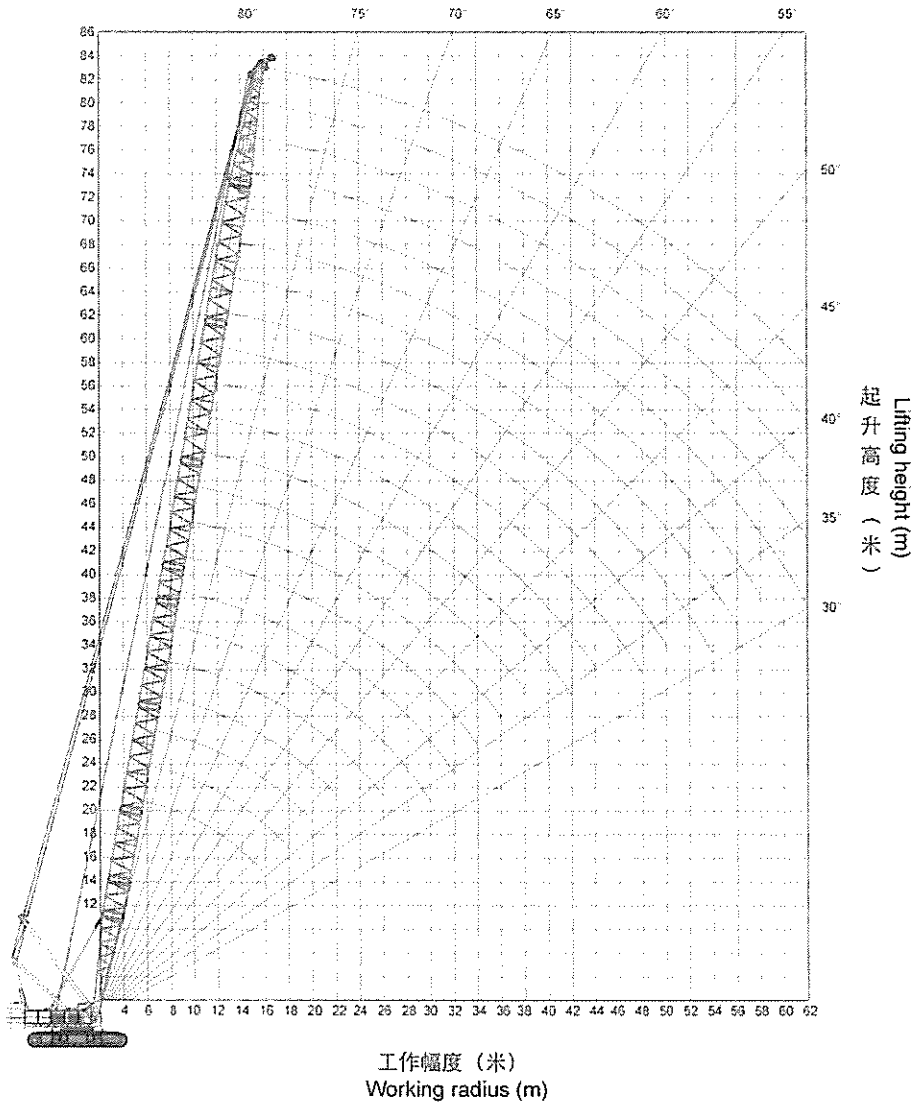


主臂臂节组合/主臂工况
Boom Combinations/Boom Working Condition

臂长 Boom length (m)	底节臂 Boom butt	中间节臂 Boom insert				顶节臂 Boom top
	9m	3m	6m	9m	12m	10m
19	1	-	-	-	-	1
22	1	1	-	-	-	1
25	1	-	1	-	-	1
28	1	-	-	1	-	1
31	1	1	-	1	-	1
34	1	-	1	1	-	1
37	1	1	1	1	-	1
40	1	1	-	2	-	1
43	1	-	1	2	-	1
46	1	-	-	3	-	1
49	1	1	-	3	-	1
52	1	-	1	3	-	1
55	1	1	1	3	-	1
58	1	2	1	3	-	1
61	1	1	-	3	1	1
64	1	2	-	3	1	1
67	1	2	-	2	2	1
70	1	1	1	2	2	1
73	1	2	1	2	2	1
76	1	2	-	3	2	1
79	1	1	1	3	2	1
82	1	2	1	3	2	1



主臂作业范围
Boom Working Area



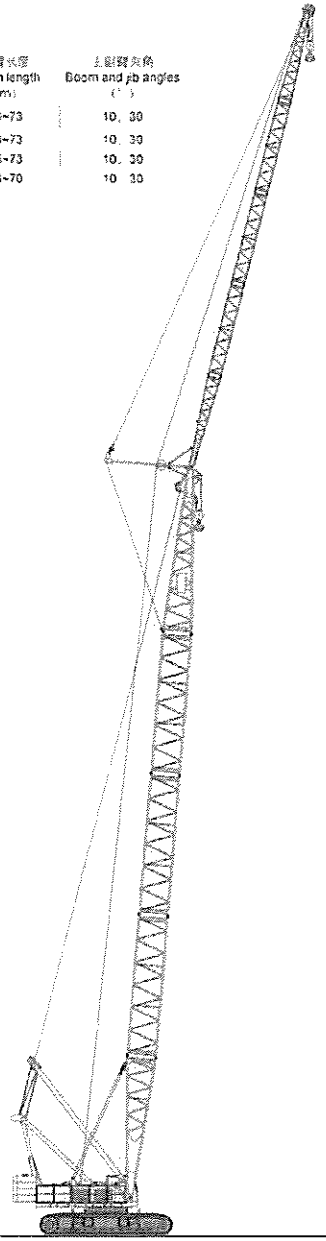
主臂工况载荷表
Boom Working Condition and Lifting Load Chart

幅度 Radius	臂长 Boom length (m)											
(m)	19	22	25	28	31	34	37	40	43	46	49	52
5	150.0											
6	140.0	130.0	117.0									
7	119.0	118.0	110.0	100.0	90.0							
8	99.0	95.5	94.0	91.0	88.6	85.5	84.0					
9	82.5	80.7	80.5	79.0	77.0	75.8	74.0	72.0	69.4			
10	71.0	69.2	69.1	69.0	68.0	66.6	64.8	64.4	64.2	61.0	59.0	
12	55.0	54.3	54.6	54.4	54.2	54.0	53.8	52.0	51.0	49.8	49.0	48.0
14	45.0	44.6	44.4	44.2	44.0	43.8	43.6	43.3	42.9	42.0	41.0	40.0
16	38.0	38.8	37.0	36.8	36.6	36.4	36.2	36.0	35.8	35.6	34.9	33.8
18		32.6	32.0	31.6	31.4	31.2	31.0	30.8	30.6	30.4	30.2	30.0
20			28.0	27.9	27.7	27.5	27.3	27.1	26.9	26.8	26.6	26.0
22				25.4	25.2	25.0	24.8	24.2	24.0	23.8	23.6	23.4
24					22.0	21.8	21.6	21.4	21.2	21.0	20.8	20.6
26					20.0	19.8	19.6	19.4	19.2	19.0	18.2	18.0
28						17.9	17.6	17.4	17.2	17.0	16.8	16.6
30						17.0	16.0	15.8	15.6	15.4	15.0	15.7
32							15.0	14.8	14.6	14.4	14.2	14.0
34								13.9	13.8	13.6	13.4	13.2
36									12.0	11.8	11.7	11.5
38										10.8	10.6	10.4
40											10.0	9.8
42											9.5	9.4
44												8.8

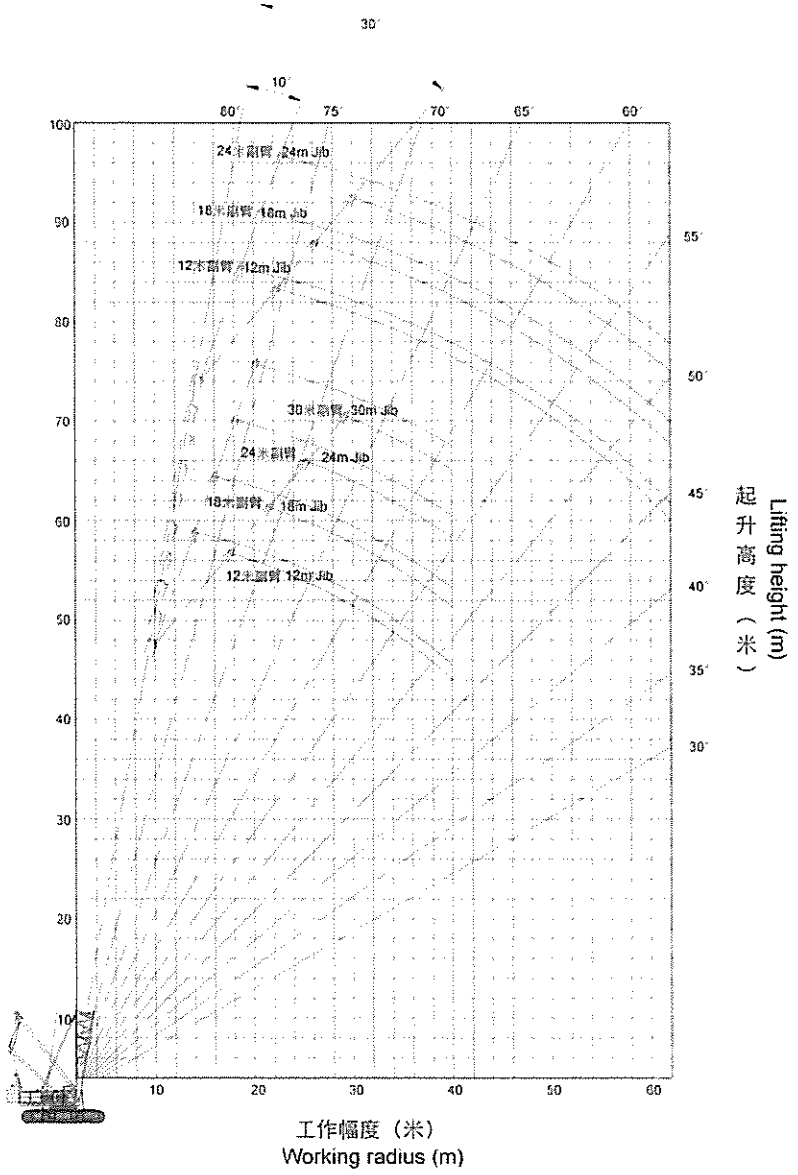
幅度 Radius	臂长 Boom length (m)									
(m)	55	58	61	64	67	70	73	76	79	82
12	47.6	42.2								
14	39.0	38.8	38.6	38.0	35.0	30.0				
16	33.6	33.4	33.2	33.0	30.0	28.0	26.9	25.0	21.5	20.1
18	29.8	29.6	29.2	28.8	28.0	27.2	26.2	24.2	21.4	19.5
20	25.7	25.5	25.3	25.0	24.8	24.3	23.7	23.2	20.6	18.8
22	23.2	23.0	22.8	21.8	21.5	21.3	20.9	20.4	19.9	18.1
24	20.4	20.0	19.5	19.3	19.1	19.0	18.5	18.1	17.6	16.8
26	17.7	17.6	17.4	17.1	16.9	16.8	15.6	16.2	15.7	15.2
28	16.4	16.2	16.0	15.8	15.5	15.0	15.0	14.6	14.1	13.7
30	15.5	15.3	15.0	14.0	13.6	13.4	13.2	13.2	12.8	12.4
32	13.6	13.3	13.0	12.6	12.2	12.0	12.0	12.0	11.7	11.2
34	13.0	12.6	12.0	11.6	11.1	11.0	11.0	11.0	10.7	10.3
36	11.2	11.0	10.8	10.5	10.2	10.0	10.0	10.0	9.8	9.4
38	10.1	9.9	9.6	9.4	9.2	9.1	9.0	9.0	9.0	8.6
40	9.6	9.4	8.9	8.7	8.6	8.5	8.5	8.4	8.3	8.0
42	8.8	8.6	8.2	8.0	7.9	7.7	7.7	7.7	7.6	7.4
44	8.0	7.7	7.4	7.3	7.3	7.1	7.1	7.1	6.9	6.8
46	7.4	7.2	7.0	6.9	6.9	6.7	6.6	6.5	6.2	6.1
48	7.0	6.8	6.6	6.4	6.4	6.4	6.2	6.0	5.8	5.4
50		6.5	6.2	6.0	5.9	5.9	5.6	5.3	5.0	4.9
52			6.0	5.5	5.4	5.3	5.0	4.7	4.5	4.3
54			5.7	5.3	5.0	4.8	4.6	4.3	4.0	3.8
56				5.0	4.5	4.4	4.1	3.8	3.5	3.4
58					4.1	4.0	3.8	3.4	3.1	2.9
60						3.6	3.2	3.0	2.7	2.5
62						3.3	3.0	2.6	2.4	2.2

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	-	46~73	10、30
18	1	46~73	10、30
24	2	46~73	10、30
30	3	46~70	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46米 Boom length 46m

副臂长度 Jib length (m)	12		18		24		30	
幅度 Radius (m)	副臂安装角 Jib offset angle (°)							
	10	30	10	30	10	30	10	30
14	15.0							
16	15.0							
18	15.0	13.0	12.0					
20	15.0	13.0	12.0		8.0			
22	15.0	13.0	12.0	8.0	8.0		4.0	
24	15.0	13.0	12.0	8.0	8.0		4.0	
26	15.0	13.0	12.0	8.0	7.8	6.0	4.0	
28	15.0	12.6	12.0	8.0	7.6	6.0	4.0	
30	15.0	12.2	12.0	8.0	7.4	6.0	4.0	3.0
32	14.8	11.8	11.5	8.0	7.3	6.0	4.0	3.0
34	13.6	11.5	10.9	8.0	7.1	6.0	4.0	3.0
36	12.9	11.2	10.5	7.8	6.9	5.8	3.9	3.0
38	11.0	10.8	10.3	7.6	6.7	5.7	3.8	3.0
40	10.4	10.2	10.0	7.4	6.5	5.5	3.7	3.0

主臂49米 Boom length 49m

副臂长度 Jib length (m)	12		18		24		30	
幅度 Radius (m)	副臂安装角 Jib offset angle (°)							
	10	30	10	30	10	30	10	30
14	15.0							
16	15.0							
18	15.0	13.0	12.0					
20	15.0	13.0	12.0		8.0			
22	15.0	13.0	12.0		8.0		4.0	
24	15.0	13.0	12.0	8.0	8.0		4.0	
26	15.0	13.0	12.0	8.0	8.0		4.0	
28	15.0	13.0	12.0	8.0	7.8	6.0	4.0	
30	14.9	12.8	12.0	8.0	7.6	6.0	4.0	3.0
32	13.8	12.6	12.0	8.0	7.4	6.0	4.0	3.0
34	12.8	12.0	12.0	8.0	7.2	6.0	4.0	3.0
36	11.8	11.5	11.8	8.0	7.0	5.9	4.0	3.0
38	10.5	10.6	10.6	7.8	6.8	5.6	3.8	3.0
40	9.8	9.8	9.8	7.6	6.6	5.6	3.7	3.0
42	9.0	9.0	9.0	7.4	6.4	5.4	3.5	3.0

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52米 Boom length 52m

副臂长度 Jib length (m)	12		18		24		30	
幅度 Radius (m)	副臂安装角 Jib offset angle (°)							
	10	30	10	30	10	30	10	30
16	15.0							
18	15.0		12.0					
20	15.0	13.0	12.0		8.0			
22	15.0	13.0	12.0		8.0		4.0	
24	15.0	13.0	12.0	8.0	8.0		4.0	
26	15.0	13.0	12.0	8.0	8.0		4.0	
28	15.0	13.0	12.0	8.0	7.8	6.0	4.0	
30	14.7	12.8	12.0	8.0	7.6	6.0	4.0	
32	13.8	12.6	12.0	8.0	7.4	6.0	4.0	3.0
34	12.3	12.3	12.0	8.0	7.2	6.0	4.0	3.0
36	11.5	11.5	11.2	8.0	7.0	6.0	4.0	3.0
38	10.3	10.3	10.3	7.8	6.8	5.8	3.9	3.0
40	9.6	9.6	9.6	7.6	6.6	5.7	3.8	3.0
42	8.8	8.8	8.8	7.4	6.4	5.5	3.6	3.0
44	8.2	8.2	8.2	7.2	6.2	5.4	3.5	3.0
46	7.8	7.8	7.8	7.0	6.0	5.2	3.4	2.8

主臂长度 Boom length (m)

主臂52米 Boom length 52m

副臂长度 Jib length (m)	12		18		24		30	
幅度 Radius (m)	副臂安装角 Jib offset angle (°)							
	10	30	10	30	10	30	10	30
16	15.0							
18	15.0		12.0					
20	15.0	13.0	12.0					
22	15.0	13.0	12.0		8.0		4.0	
24	15.0	13.0	12.0	8.0	8.0		4.0	
26	15.0	13.0	12.0	8.0	8.0		4.0	
28	15.0	13.0	12.0	8.0	8.0	6.0	4.0	
30	14.4	13.0	12.0	8.0	7.8	6.0	4.0	
32	13.2	12.2	12.0	8.0	7.6	6.0	4.0	3.0
34	11.8	11.8	11.8	8.0	7.4	6.0	4.0	3.0
36	11.0	11.0	11.0	7.8	7.2	6.0	4.0	3.0
38	10.2	10.2	10.2	7.6	7.0	5.9	4.0	3.0
40	9.3	9.3	9.3	7.4	6.8	5.7	3.9	3.0
42	8.6	8.6	8.6	7.0	6.6	5.6	3.8	2.9
44	7.9	7.9	7.9	6.7	6.5	5.5	3.6	2.9
46	7.4	7.4	7.4	6.4	6.3	5.3	3.5	2.8
48	6.8	6.8	6.8	6.2	6.1	5.2	3.4	2.8

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58米 Boom length 58m

副臂长度 Jib length (m)	12		18		24		30	
幅度 Radius (m)	副臂安装角 Jib offset angle (°)							
	10	30	10	30	10	30	10	30
16	150							
18	150							
20	150	130	120					
22	150	130	120		80			
24	150	130	120	80	80		40	
26	150	130	120	80	80		40	
28	150	130	120	80	80	60	40	
30	143	130	120	80	80	60	40	
32	129	128	120	80	78	60	40	30
34	118	118	118	80	76	60	40	30
36	108	108	108	80	74	60	40	30
38	98	98	98	80	72	60	40	30
40	90	90	90	80	66	59	40	30
42	83	83	83	77	67	57	39	30
44	77	77	77	75	66	56	38	29
46	72	72	72	72	64	54	36	29
48	65	65	65	65	62	52	34	28
50	62	62	62	62	60	50	32	28

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58米 Boom length 58m

副臂长度 Jib length (m)	12		18		24		30	
幅度 Radius (m)	副臂安装角 Jib offset angle (°)							
	10	30	10	30	10	30	10	30
18	150							
20	150	130	120					
22	150	130	120		80			
24	150	130	120		80		40	
26	150	130	120	80	80		40	
28	150	130	120	80	80		40	
30	147	130	120	80	80	60	40	
32	132	130	120	80	78	60	40	30
34	120	120	120	80	76	60	40	30
36	110	110	110	80	75	60	40	30
38	101	101	101	80	73	60	40	30
40	93	93	93	80	71	59	40	30
42	85	85	85	80	69	58	39	30
44	79	79	79	79	67	57	38	29
46	73	73	73	73	66	56	37	29
48	67	67	67	67	64	54	35	29
50	62	62	62	62	62	53	34	28
52	58	58	58	58	58	52	33	28
54	54	54	54	54	54	51	32	27

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

主臂64米
Boom length 64m

主臂长度 Boom length (m)	副臂长度 Jib length (m)	12		18		24		30	
幅度 Radius (m)	副臂安装角 Jib offset angle (°)	10	30	10	30	10	30	10	30
18		150							
20		150		120					
22		150	130	120		80			
24		150	130	120		80		40	
26		150	130	120	80	80		40	
28		150	130	120	80	80		40	
30		144	130	120	80	80	60	40	
32		131	130	120	80	80	60	40	
34		120	120	120	80	78	60	40	30
36		107	107	107	80	76	60	40	30
38		98	98	98	80	74	60	40	30
40		90	90	90	80	72	60	40	30
42		82	82	82	80	70	59	40	30
44		76	76	76	76	68	57	39	30
46		70	70	70	70	66	56	38	30
48		64	64	64	64	64	54	37	29
50		59	59	59	59	59	53	36	29
52		54	54	54	54	54	51	35	28
54		50	50	50	50	50	50	34	28
56		45	45	45	45	45	45	32	27

主臂67米
Boom length 67m

主臂长度 Boom length (m)	副臂长度 Jib length (m)	12		18		24		30	
幅度 Radius (m)	副臂安装角 Jib offset angle (°)	10	30	10	30	10	30	10	30
18		150							
20		150		120					
22		150	130	120					
24		150	130	120		80		40	
26		150	130	120	80	80		40	
28		150	130	120	80	80		40	
30		143	130	120	80	80	60	40	
32		130	130	120	80	80	60	40	
34		118	118	118	80	78	60	40	30
36		107	107	107	80	76	60	40	30
38		98	98	98	80	74	60	40	30
40		90	90	90	80	72	60	40	30
42		82	82	82	80	70	59	40	30
44		76	76	76	76	68	57	39	30
46		70	70	70	70	66	56	38	30
48		64	64	64	64	64	54	37	30
50		58	58	58	58	58	53	36	29
52		53	53	53	53	53	51	35	28
54		48	48	48	48	48	48	34	28
56		43	43	43	43	43	43	32	27
58		40	40	40	40	40	40	30	26

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

主臂70米
Boom length 70m

主臂长度 Boom length (m)	副臂长度 Jib length (m)	12		18		24		30	
幅度 Radius (m)	副臂安装角 Jib offset angle (°)	10	30	10	30	10	30	10	30
18		150							
20		150		120					
22		150	130	120					
24		150	130	120		80			
26		150	130	120	80	80		40	
28		150	130	120	80	80		40	
30		143	130	120	80	80	60	40	
32		129	129	120	80	80	60	40	
34		117	117	117	80	78	60	40	30
36		107	107	107	80	76	60	40	30
38		98	98	98	80	75	60	40	30
40		90	90	90	80	74	60	40	30
42		82	82	82	80	72	60	40	30
44		75	75	75	75	71	58	40	30
46		70	70	70	70	70	56	39	30
48		64	64	64	64	64	54	38	30
50		59	59	59	59	59	52	37	29
52		53	53	53	53	53	50	36	28
54		48	48	48	48	48	48	34	28
56		43	43	43	43	43	43	33	27
58		39	39	39	39	39	39	32	27
60		36	36	36	36	36	36	31	26
62		32	32	32	32	32	32	30	25

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73米 Boom length 73m					
塔臂长度 Jib length (m)	12		18		24	
幅度 Radius (m)	副臂安装角 Jib offset angle (°)					
	10	30	10	30	10	30
18	15.0					
20	15.0					
22	15.0	13.0	12.0			
24	15.0	12.7	12.0		8.0	
26	15.0	12.4	12.0		8.0	
28	15.0	12.1	12.0	8.0	8.0	
30	14.0	11.8	12.0	8.0	8.0	
32	12.6	11.6	12.0	8.0	8.0	6.0
34	11.4	11.3	11.4	8.0	8.0	6.0
36	10.4	10.4	10.4	8.0	7.8	6.0
38	9.5	9.5	9.5	8.0	7.7	6.0
40	8.6	8.6	8.6	8.0	7.5	6.0
42	7.9	7.9	7.9	7.9	7.4	6.0
44	7.2	7.2	7.2	7.2	7.2	5.8
46	6.5	6.5	6.5	6.5	6.5	5.6
48	6.0	6.0	6.0	6.0	6.0	5.3
50	5.5	5.5	5.5	5.5	5.5	5.1
52	4.8	4.8	4.8	4.8	4.8	4.8
54	4.3	4.3	4.3	4.3	4.3	4.3
56	4.0	4.0	4.0	4.0	4.0	4.0
58	3.6	3.6	3.6	3.6	3.6	3.6
60	3.2	3.2	3.2	3.2	3.2	3.2
62	2.8	2.8	2.8	2.8	2.8	2.8

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、多台起重机合力起吊）限制或降低起重机的起重量；
- 表中额定起重量包括吊钩、钢丝绳、和其它所有吊具的重量；
- 表中没有列出额定值的空白区，不允许将起重机用于该区所对应的起重作业；
- 表中起重量为带上车全配重的起重量；
- 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、30t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 areas.
- The total rated lifting loads are the lifting capacity for crane with superstructure 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, 30t 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.