

QUY50A 履带起重机

QUY50A
CRAWLER
CRANE

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QUY50A CRAWLER CRANE

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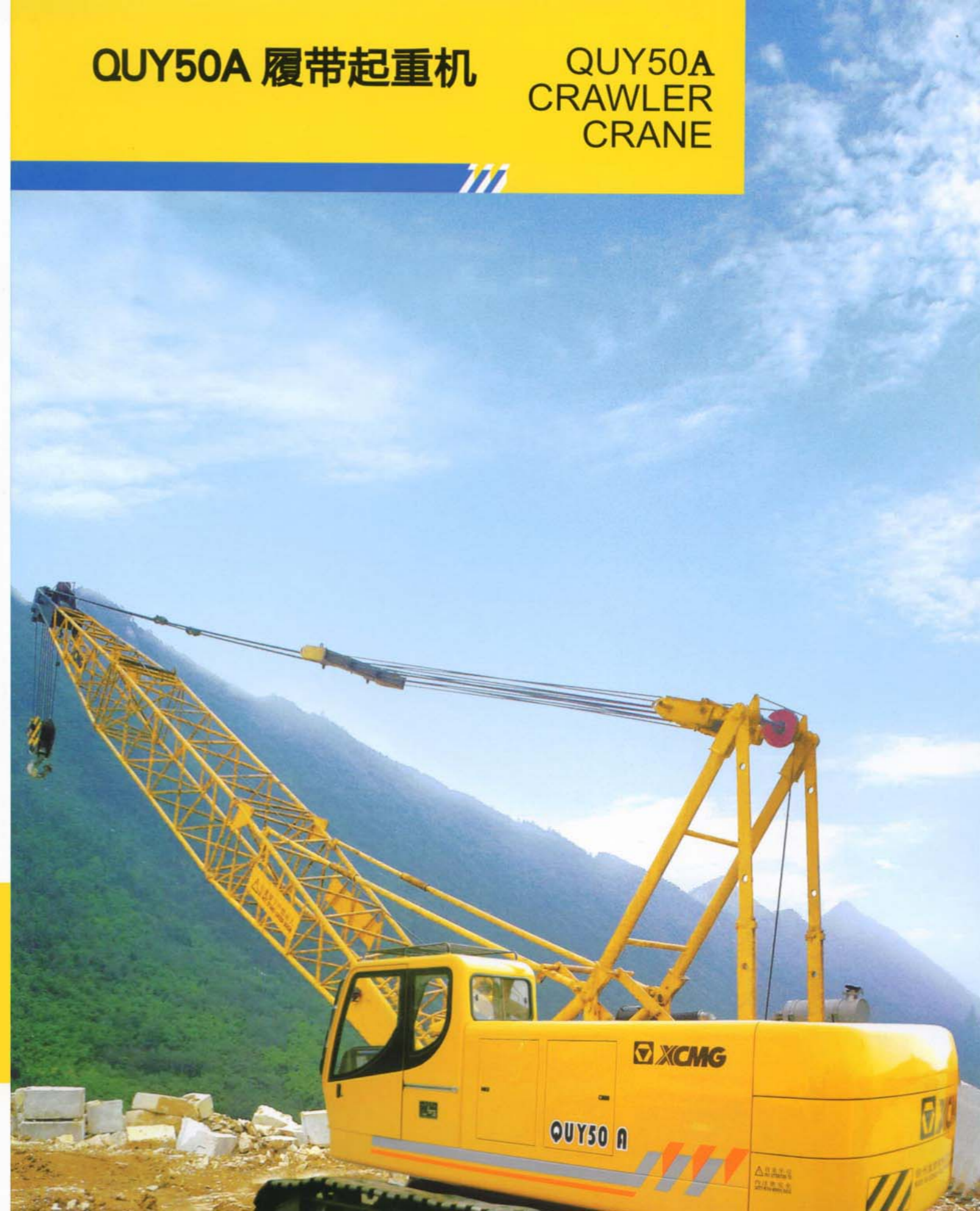
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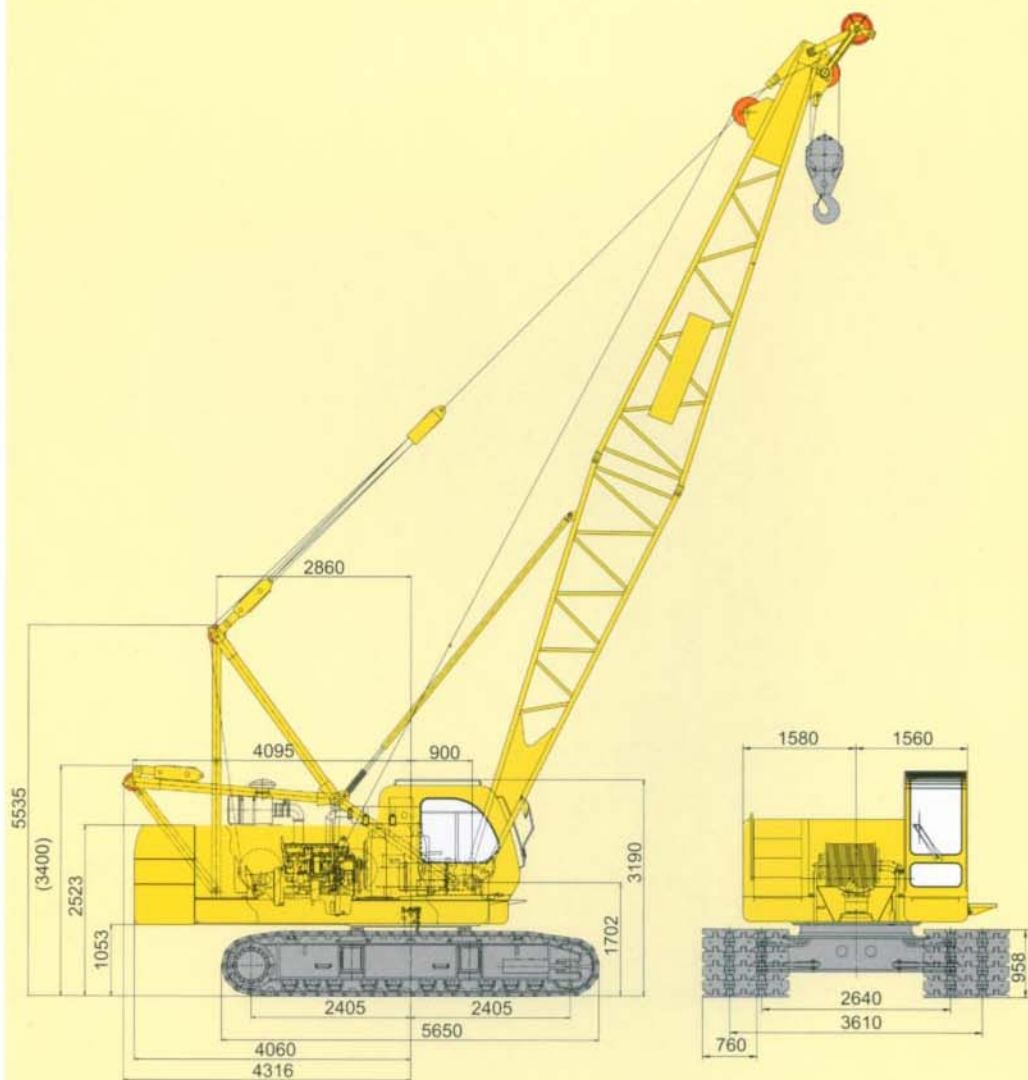
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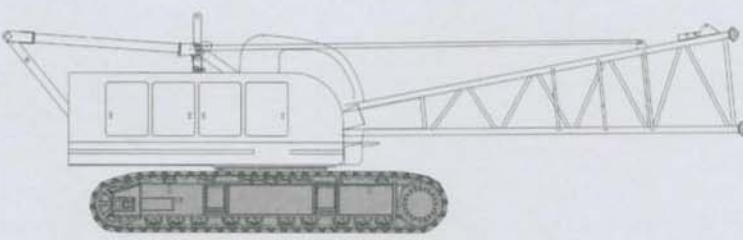








目录 CONTENTS







主要零部件	
Main Parts	1
详细介绍	
Detailed Introduction	4
工作范围图	
Diagram for Working Range	8
主臂臂节组合/主臂工况	
Boom Combinations/Boom Working Condition	9
主臂工况载荷表	
Boom Working Condition and Lifting Load Chart	10
固定副臂臂节组合/副臂工况	
Fixed Jib Combinations/Jib Working Condition	11
固定副臂工况载荷表	
Fixed Jib Working Condition and Lifting Load Chart	12


项目 Items	单位 Unit	数值 Data
最大额定起重量 Max. rated lifting capacity	t	50
基本型主臂 Basic boom	t	4
固定副臂 Fixed jib	t	4
最大起重力矩 Max. load moment	t.m	181.5
主臂长度 Boom length	m	13~52
主臂变幅角度 Boom elevating angle	°	30~80
固定副臂长度 Fixed jib length	m	9.15~15.25
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	65
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	52
最大回转速度 Max. slewing speed	r/min	1.5
最高行驶速度 Max. traveling speed	km/h	1.3
爬坡能力 Grade ability	°	20
平均接地比压 Average ground pressure	MPa	0.069
发动机功率 Engine power	kW	115
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	51
运输状态单件最大质量 Max. mass of single unit in travel configuration	t	31
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	11.5×3.47×3.4



	主机 Main Unit × 1 长L 11500mm 宽W 3400mm 高H 3470mm 重量 Weight 31000kg
	50t吊钩 Capacity Hook Block × 1 长L 1560mm 宽W 550mm 高H 562mm 重量 Weight 600kg
	26t吊钩 Capacity Hook Block × 1 长L 1226mm 宽W 575mm 高H 400mm 重量 Weight 300kg
	4t吊钩 Capacity Hook Block × 1 长L 439mm 宽W 300mm 高H 300mm 重量 Weight 115kg
	平衡重I Weight counterbalance I × 1 长L 3140mm 宽W 880mm 高H 475mm 重量 Weight 4700kg
	平衡重II Weight Counterbalance II × 1 长L 3140mm 宽W 880mm 高H 365mm 重量 Weight 5750kg
	平衡重III Weight Counterbalance III × 1 长L 3140mm 宽W 880mm 高H 590mm 重量 Weight 6050kg

Main Parts

	<table border="1"> <tr> <td colspan="2">主臂3米节 Boom Insert</td> <td>× 1</td> </tr> <tr> <td>长L</td> <td>3000mm</td> <td></td> </tr> <tr> <td>宽W</td> <td>1400mm</td> <td></td> </tr> <tr> <td>高H</td> <td>1400mm</td> <td></td> </tr> <tr> <td>重量 Weight</td> <td>262kg</td> <td></td> </tr> </table>	主臂3米节 Boom Insert		× 1	长L	3000mm		宽W	1400mm		高H	1400mm		重量 Weight	262kg	
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说明 Notes

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

 上车

发动机

上柴D6114ZG5B直列四冲程、水冷、增压中冷、直喷式发动机。额定功率115kW，额定转速为1800rpm，最大输出扭矩670N·m。

电气控制系统

由显示器、控制器、传感器等组成。
采用HIRSCHMANN公司的全动力矩限制器，动态图形、数字显示作业参数，可自动停止危险方向的动作，并进行声音报警。控制器与显示器通过CAN总线技术进行数据通讯，系统可靠性高。与常规电气相结合，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。显示器可显示发动机的转速、燃油量、机油压力、发动机工作时间等工作参数。

液压系统

液压主系统采用总功率变量泵控制（包括主起升、副起升、变幅、行走），回转部分由齿轮泵单独驱动，先导油路由排量10ml/r的小齿轮泵提供，通过先导压力卸荷电磁阀与安全监测系统的联合控制提高了整车的安全性，有效的防止了误操作。起重机主要动作均采用先进的液压比例控制技术，操作者可通过操纵液控手柄的移动方向和位移大小来控制各执行机构的运动方向及运动速度，可无极调速同时具有良好的微动性。各机构的制动器均为常闭式，通过具有专利技术的逻辑控制阀控制制动器的开启和关闭。
用派克主阀和意大利油控公司的平衡阀，作业平稳，安全可靠。

起升机构

主、副起升型号相同，单独驱动；片式常闭制动器，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。最大速度可达65m/min，具有优良的微速性能，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

主臂变幅为独立驱动。主臂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螺栓连接，便于组装。驱动马达、变幅钢丝绳均为优质国产件。

回转机构

布置在转台内侧前面，与回转支承内啮合，液压缓冲。行星减速机，可控制常闭、片式制动器，工作可靠，维修方便。

回转支承

采用单排四点接触球式回转支承，质量可靠。

上车配重

总重16.5t
上车1号配重：4.7t，共1块；
上车2号配重：5.75t，共1块；
上车3号配重：6.05t，共1块；
各工况下均为全配重。

 Crane Superstructure

Engine

It is a 4-stroke cylinder in-line, water cooled, supercharging intercooled and direct injection engine with rated output power 115kW, rated speed 1800 rpm, maximum output torque 670N.m.

Electric Control System

It consists of display, controller, sensor, ect.
It adopts full automatic LMI (Load Moment Indicator) from HIRSCHMANN Company. Dynamic graphs and numeral displaying of working parameter can stop actions in dangerous direction and give audio warning. The controller and the displayer communicate with each other through CAN bus technique, which makes a high reliability. Its combination with the conventional electrics realizes the crane's automatic control and greatly improves safety, reliability and efficiency of crane operation. The parameters such as engine speed of revolution, fuel consumption, engine oil pressure and engine working time, ect. can be shown on the display.

Hydraulic System

The main hydraulic system of QUY50-1 crawler crane takes overall power variable displacement pump-control (It include main winch, auxiliary winch, elevating and travelling). The slewing system is separately driven by gear pump. The power of pilot oil circuit is provided by pinion pump with a displacement of 10ml/r. The combined control of the pilot pressure-unload solenoid valve and the safety monitoring system has greatly improved the whole vehicle's safety and effectively prevented the wrong operation. Crane main actions all adopt hydraulic proportional control technique which makes the operator control the moving direction and moving speed of each mechanism by controlling the hydraulic control handle's direction and displacement. It can realize stepless speed regulating and get better inching ability. The brake of each mechanism is constant closed and is controlled by logic control valve.
The main valve from Parker and the balance valve from Oil Control Italy make the operation stable, safe and reliable.

Winch System

Main/auxiliary winch has the same model, is driven independently. 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 65m/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 is driven separately and has built-in speed reducer, 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 and elevating wire rope are all advanced domestic products.

Slewing System

Slewing system is arranged inside the front of turntable, made up by a planetary reducer, and is internal meshed with 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 is a single-row roller type slewing bearing, with stable and reliable quality.

Superstructure Counterweight

Overall weight: 16.5t
Superstructure Counterweight 1: 4.7t, 1 slab
Superstructure Counterweight 2: 5.75t, 1 slab
Superstructure Counterweight 3: 6.05t, 1 slab

操纵室

操纵室采用钢制框架结构与玻璃钢结构两种配置，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（选配）、音响、灭火装置等，整体宽敞舒适。

转台

转台是履带起重机三大结构件之一，是联系上下车关键承载结构件，其受力复杂，结构也复杂，上面还布置很多机构，如发动机，变幅机构，起升机构，人字架及臂架等。所以采用箱形平台式结构，刚度好，变形小。

 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。

车架

车架是主要承载件之一，该件采用箱形结构，中间设置横隔板，加强其抗扭刚度。结构简单，承载能力强，稳定性好，适用性强。

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。两个履带架对称布置，装有宽度为0.76m的履带板。驱动轮：2个；导向轮：2个；拖链轮：6个；支重轮：20个；履带板：122个。

行走机构

左右行走马达由两个泵分别供油，片式常闭制动器，内藏式减速机。

行走速度

变量马达可以实现无极变速，最高速度1.3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，弦杆与腹杆均采用高强度管材，臂架强度高，重量轻。

主臂

主臂长度：13~52米
构成：由一个6.5米底节、一个6.5米顶节、1个3米节、3个6米节、2个9米节组成，通过对中间节的适当配组，臂架的长度，可从19米组装成最大长度52米，每3米为一个增加长度。

固定副臂

副臂长度：9.15~15.25 m
构成：由一个3.05米底节、一个3.05米顶节、3个3.05米节组成，通过对中间节的配组，在主臂25~43米范围内可装9.15~15.25米副臂，安装角度10°、30°。

Operator's Cabin

Operator's cabin is steel frame structure combined with glass fibre reinforced plastic 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 (selected), 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.

Car-body

Car-body uses high strength steel box-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 is 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 120 track blocks of 0.76m width.

Propel Unit

Propel unit has higher and lower configurations. Users can choose propel unit imported from Germany or from well-known domestic brands. It can be operated synchronously or independently to realize straight traveling and steering.

Traveling Speed

Variable displacement motor can realize infinite variable speed whose maximum value is 1.2 km/h. When traveling, the vehicle can run stably and realize fast traveling.

 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 and web rod use domestic high quality tube, which improves the ability of anti-torsion resistance.

Boom

Main boom is 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: 13m~52m.
Construction: boom butt 6.5m, boom insert 3m×1, boom insert 6m×3, boom insert 9m×2, boom top 6.5m.

Fixed Jib

Fixed jib is 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 25~43m, and lifting operation length is 9.15~15.25m, 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 3.05m, jib insert 3.05m×3, jib top 3.05m.

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。使得人字架有高、低两种位置，转移场地时，可根据场地情况进行选择。

吊钩

标准配置：50t吊钩、26t吊钩、4t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、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下落动作。

棘爪锁止装置

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

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。

急停开关

此开关在紧急情况下可停止整车动力输出，保证起重机安全。

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。

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.

Hook Block

Standard configuration: 50t capacity hook block, 26t capacity hook block, 4t capacity hook block

Safety Devices

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

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 falling operation.

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.

Emergency stop switch

This switch can stop the power output of the whole machine in an emergency situation to ensure crane's safety.

Audio/Video Warning

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

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，控制系统会自动切断起重机向危险的动作方向运行。

照明灯

装置在转台前方、臂架上和操纵室内，用于为夜间工作提供照明。

示高灯

安装在臂架顶部，作为高空警示。

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" and "Yellow Lamp" light on at the same time to indicate that crane is overloaded; In dangerous area, control system can automatically cut off crane movement to dangerous direction.

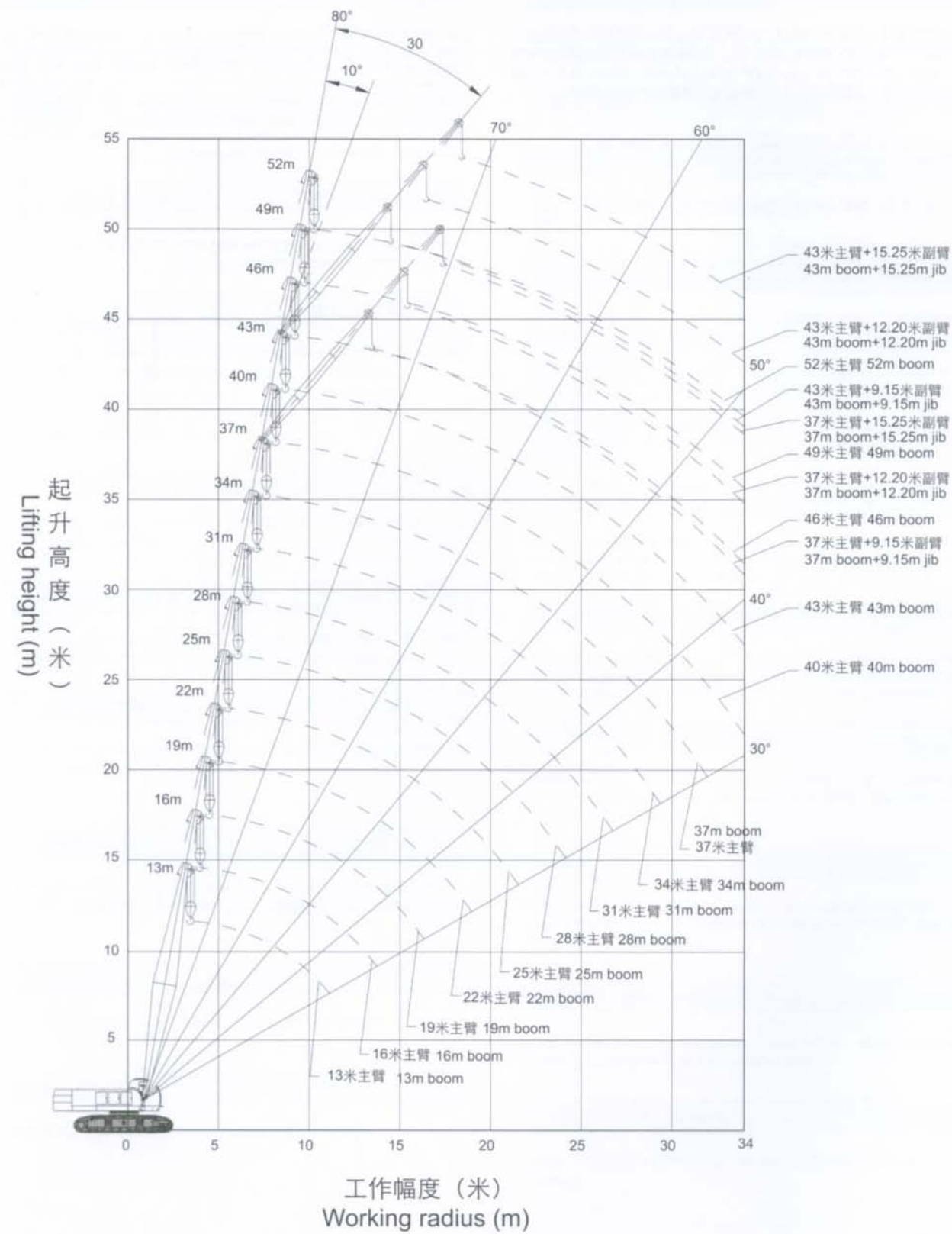
Illumination Lamp

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

Height Mark Lamp

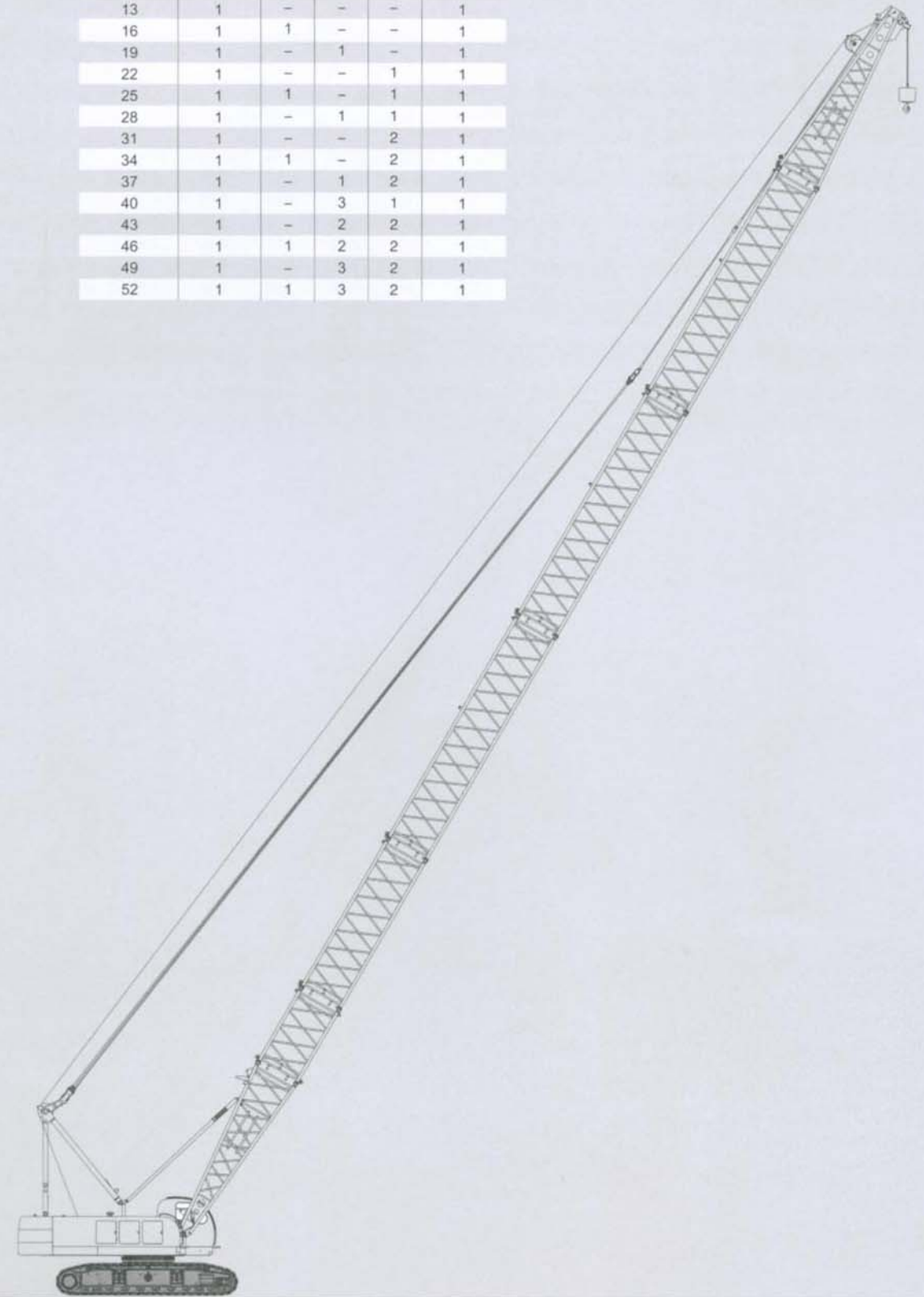
Boom tip has a height mark lamp for high level operation warning.

Diagram for working range



Boom Combinations/Boom Working Condition

臂长 Boom length (m)	底节臂 Boom butt 6.5m	中间臂节 Boom insert			顶节臂 Boom top 6.5m
		3m	6m	9m	
13	1	-	-	-	1
16	1	1	-	-	1
19	1	-	1	-	1
22	1	-	-	1	1
25	1	1	-	1	1
28	1	-	1	1	1
31	1	-	-	2	1
34	1	1	-	2	1
37	1	-	1	2	1
40	1	-	3	1	1
43	1	-	2	2	1
46	1	1	2	2	1
49	1	-	3	2	1
52	1	1	3	2	1

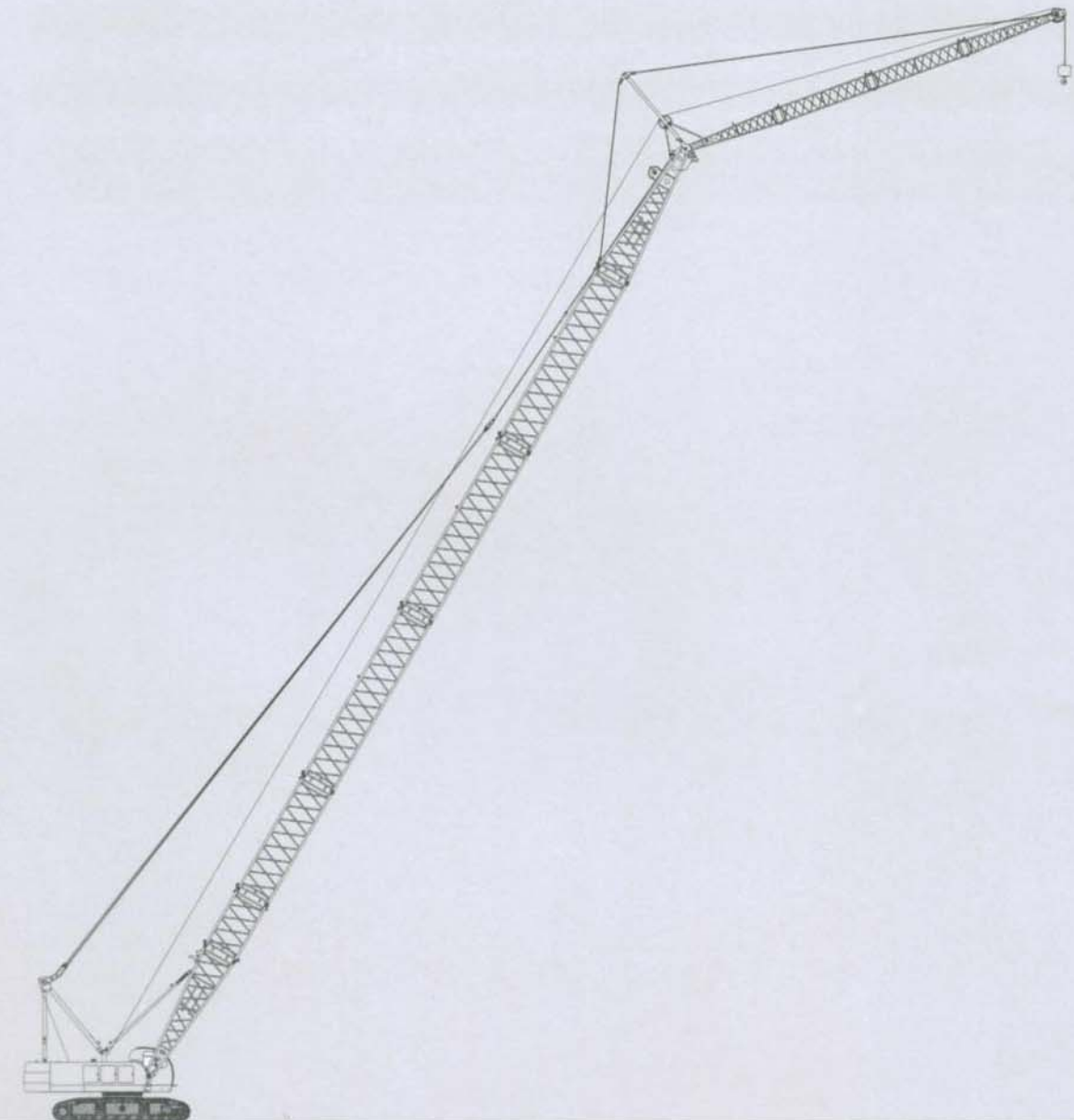


Boom Working Condition and Lifting Load Chart

幅度 Radius (m)	臂长 Boom length (m)													
	13	16	19	22	25	28	31	34	37	40	43	46	49	52
3.7	50.00													
4.0	43.00	45.00												
4.5	36.00	37.00	37.50											
5.0	31.00	31.00	30.50	29.50										
5.5	26.50	27.30	27.00	27.00	26.00									
6.0	22.00	23.40	24.00	24.00	24.00	22.50								
7.0	19.00	19.00	19.00	19.00	19.50	18.80	18.50							
8.0	15.50	15.50	16.00	16.00	15.80	15.20	15.00	15.00	14.90					
10.0	11.00	12.00	11.50	11.50	11.40	11.50	11.30	11.20	11.00	10.80	10.70	10.40	10.30	
12.0	9.00	9.50	9.50	9.00	8.90	8.80	8.60	8.60	8.60	8.50	8.40	8.20	8.10	8.00
14.0		7.50	7.50	7.50	7.30	7.40	7.10	7.00	6.80	6.50	6.60	6.50	6.30	6.20
16.0			6.50	6.50	6.40	6.40	6.00	5.80	5.80	5.70	5.50	5.30	5.00	5.00
18.0				5.40	5.40	5.30	5.00	4.70	4.60	4.50	4.40	4.30	4.20	4.10
20.0				4.60	4.50	4.30	4.20	4.10	4.00	3.80	3.80	3.70	3.50	3.30
22.0					3.80	3.70	3.50	3.50	3.40	3.30	3.20	3.00	2.80	2.70
24.0						3.50	3.00	2.90	3.00	2.80	2.60	2.50	2.30	2.10
26.0							2.80	2.60	2.50	2.30	2.10	2.00	1.80	1.60
28.0										2.10	1.90	1.80	1.60	1.40
30.0											1.80	1.60	1.50	1.30
32.0												1.50	1.30	1.10
34.0													1.40	1.20

Fixed Jib Combinations/Jib Working Condition

副臂长度 Jib length (m)	臂节组合 Jib combinations		
	底节臂 Jib butt 3.05m	中间臂节 Jib insert 3.05m	顶节臂 Jib top 3.05m
9.15	1	1	1
12.2	1	2	1
15.25	1	3	1



Fixed Jib Working Condition and Lifting Load Chart

主臂长度 Boom length (m)	主臂25米 Boom length 25 (m)						主臂28米 Boom length 28 (m)					
	9.15		12.20		15.25		9.15		12.20		15.25	
副臂长度 Jib length (m)	副臂安装角Jib angle (°)											
幅度 Radius (m)	10	30	10	30	10	30	10	30	10	30	10	30
9	4.00						4.00					
10	4.00		3.80				4.00		3.80			
11	4.00		3.80		3.00		4.00		3.80		3.00	
12	4.00	3.30	3.80		3.00		4.00	3.30	3.80		3.00	
13	4.00	3.30	3.80		3.00		4.00	3.30	3.80		3.00	
14	4.00	3.30	3.80	2.70	3.00		4.00	3.30	3.80	2.70	3.00	
15	4.00	3.30	3.80	2.70	3.00		4.00	3.30	3.80	2.70	3.00	
16	4.00	3.30	3.80	2.70	3.00	2.00	4.00	3.30	3.80	2.70	3.00	2.00
18	4.00	3.30	3.80	2.70	3.00	2.00	4.00	3.30	3.80	2.70	3.00	2.00
20	4.00	3.30	3.80	2.70	3.00	2.00	4.00	3.30	3.80	2.70	3.00	2.00
22	3.70	3.30	3.70	2.70	3.00	2.00	3.60	3.30	3.60	2.70	3.00	2.00
24							3.15	3.15	3.15	2.70	3.00	2.00

Fixed Jib Working Condition and Lifting Load Chart

主臂长度 Boom length (m)	主臂31米 Boom length 31 (m)						主臂34米 Boom length 34 (m)					
	9.15		12.20		15.25		9.15		12.20		15.25	
副臂长度 Jib length (m)	副臂安装角Jib angle (°)											
幅度 Radius (m)	10	30	10	30	10	30	10	30	10	30	10	30
9	4.00											
10	4.00		3.80				4.00					
11	4.00		3.80		3.00		4.00		3.80		3.00	
12	4.00	3.30	3.80		3.00		4.00	3.30	3.80		3.00	
13	4.00	3.30	3.80		3.00		4.00	3.30	3.80		3.00	
14	4.00	3.30	3.80	2.70	3.00		4.00	3.30	3.80	2.70	3.00	
15	4.00	3.30	3.80	2.70	3.00		4.00	3.30	3.80	2.70	3.00	
16	4.00	3.30	3.80	2.70	3.00	2.00	4.00	3.30	3.80	2.70	3.00	2.00
18	4.00	3.30	3.80	2.70	3.00	2.00	4.00	3.30	3.80	2.70	3.00	2.00
20	4.00	3.30	3.80	2.70	3.00	2.00	4.00	3.30	3.80	2.70	3.00	2.00
22	3.50	3.30	3.50	2.70	3.00	2.00	3.45	3.30	3.45	2.70	3.00	2.00
24	3.05	3.05	3.05	2.70	3.00	2.00	3.00	3.00	3.00	2.70	3.00	2.00
26	2.70	2.70	2.70	2.70	2.70	2.00	2.60	2.60	2.60	2.60	2.60	2.00
28							2.30	2.30	2.30	2.30	2.30	2.00
30							2.00	2.00	2.00	2.00	2.00	2.00

Fixed Jib Working range

主臂长度 Boom length (m)		主臂43米 Boom length 43 (m)					
副臂长度 Jib length (m)		9.15		12.20		15.25	
幅度 Radius (m)	副臂安装角Jib angle (°)						
	10	30	10	30	10	30	
12	4.00						
13	4.00			3.80			
14	4.00			3.80		3.00	
15	4.00	3.30		3.80		3.00	
16	4.00	3.30		3.80		3.00	
18	4.00	3.30		3.80	2.70	3.00	
20	3.80	3.30		3.80	2.70	3.00	2.00
22	3.20	3.20		3.20	2.70	3.00	2.00
24	2.75	2.75		2.75	2.70	2.75	2.00
26	2.40	2.40		2.40	2.40	2.40	2.00
28	2.05	2.05		2.05	2.05	2.05	2.00
30	1.85	1.80		1.80	1.80	1.80	1.80
32	1.50	1.50		1.50	1.50	1.50	1.50
34	1.30	1.30		1.30	1.30	1.30	1.30

Notes on Lifting Load Chart:

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

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