



徐工徐工 助您成功
XCMG FOR YOUR SUCCESS

XGC500A

CRAWLER CRANE



地址(Add): 中国江苏省徐州市金山桥经济开发区桃山路19号 邮编(Postal Code): 221004
No.19 Taoshan Road, Economic development zone of jinshanqiao,Xuzhou,Jiangsu Province,China
统一服务热线(Unified service hotline): 86 400-110-9999

销售热线Sales Hotline
销售电话(Sale Tel): 86 0516-87892094
销售传真(Sale Fax): 86 0516-87892074
电子邮件(E-mail): jjyxd@xcmg.com
服务质量投诉电话
(Quality Supervision Tel): 86 0516-87892587

服务热线Service Hotline
服务电话(Service Tel): 86 400-001-5678
服务传真(Service Fax): 86 0516-87892080
备件电话(Service Tel): 86 0516-87892086
备件传真(Service Fax): 86 0516-87892083



欢迎访问徐工商城
省心更省钱一站式



欢迎关注徐工履带起重机官方微信
1. 直接扫码“XCMG_xgj”增加好友。
2. 查找公众账号“徐工履带起重机”
3. 直接扫描上方二维码

—2022年1月版—

注: 出于产品不断改进的需要, 我们保留对产品型号、参数、配置进行变更的权力, 恕不另行通知。



CONTENTS

目录

- P02**
- Product component and system description
 - Safety Protection Measures
 - Main parts list
 - Lifting capacity table in typical working conditions

- P49**
- Transport list and transport plan
 - Supplied Tools
 - Supplied spare parts
 - Supplied Tools

02

XGC500A CRAWLER CRANE

P03–P05 Product component and system description

P06–P08 Safety Protection Measures

P09–P11 Main parts list

P12–P48 Lifting capacity table in typical working conditions

Product component and system description

1. Boom combinations

The boom sections of XGC500A crawler crane use high-strength seamless pipe as the chords and lacing members, supplemented by four-chord lattice structure which is welded by high strength steel plate, with equal section in the middle and variable section at two ends.

1) Standard working condition

HB: Heavy boom, boom length 24~93m, composition: 10.5m boom butt × 1, 12m boom transition section × 1 (large cross section), 12m light boom section × 1 (large cross section), 6m standard section × 2, 12m strengthened boom section × 2 (standard section), 12m heavy duty boom section × 1 (standard section), 12m heavy boom transition section × 1, 3m standard section, 1.5m boom head × 1.

HW: tower jib, boom length 30~66m, tower jib length 24~72m, tower jib composition: 10.5m tower jib butt × 1, 6m tower jib insert I × 1, 6m tower jib insert II × 2, 12m thick-wall tower jib insert × 1, 12m thin-wall tower jib insert × 2, 7.5m tower jib top × 1.

HJ: wind power jib, boom length 84 ~ 102m, wind power jib 12m, composition: 10.5m boom butt × 1, 12m large cross transition section × 1, 12m large cross transition section × 1, 12m strengthen standard section × 2, 6m standard section × 2, 12m heavy duty standard section × 1, 12m light duty transition section × 1, 3m standard section × 1, 7.5m wind power top section × 1. Wind power jib is 12m × 1.

HF: TBM jib, boom length 24 ~ 30m, jib length 9~12m.

2) Superlift working condition

SHB: heavy boom, boom length 36 ~ 99m, composition: 10.5m boom butt × 1, 12m large cross upper transition section × 1, 12m large cross transition section × 1, 6m standard section × 2, 12m strengthened standard section × 2, 12m heavy duty standard section × 1, 12m heavy duty transition section × 1, 3m standard section × 1, 1.5m boom head × 1.

SHW: tower jib, when boom length is 36~84m, tower jib is 24~84m, tower jib composition: 10.5m tower jib butt × 1, 6m tower jib insert section I × 1, 6m tower jib insert section II × 2, 12m thick-wall tower jib insert × 1, 12m thin-wall tower jib insert × 3, 7.5m tower jib top × 1.

SHJ: light duty wind power jib, boom length 90 ~ 105m, wind power jib length 12m, composition: 10.5m boom butt × 1, 12m large cross transition section × 1, 12m upper boom transition section × 1, 12m strengthened standard section × 2, 6m standard section × 2, 12m heavy duty standard section × 1, 12m heavy duty transition section × 1, 3m boom insert × 1, 7.5m wind power jib top × 1, 12m wind power jib × 1.

SHF: TBM jib, boom length 36m, TBM jib length 9~12m.

HB-S: strengthened heavy duty boom, available boom length 90~123m, composition: 10.5m boom butt × 1, 12m large cross transition section × 1, 12m large cross heavy duty section × 2, 12m large cross light duty section × 2, 12m large cross upper boom transition section × 1, 12m strengthened standard section × 1, 6m standard section × 2, 12m heavy duty transition section × 1, 3m standard section, 1.5m boom head × 1.

HW-S: strengthened wind power jib, boom length 90~126m, wind power jib length 12m, composition: 10.5m boom butt × 1, 12m large cross transition section 6m × 1, 12m large cross heavy duty section × 2, 12m large cross light duty section × 2, 12m large cross upper transition section × 1, 12m strengthened standard section × 1, 6m standard section × 2, 12m heavy duty transition section × 1, 3m standard section × 1, 7.5m wind power top section × 1, 12m wind power jib assy. × 1.

2. Turntable

Turntable is a box frame structure and welded by high strength steel plate. The overall structure is a large box frame with equal strength, the I-shaped main vertical plates at left and right sides are connected with box beam. This structure is with strong bending and torsion resistance and good stability. At the same time, the space in turntable is large, which is convenient for crane maintenance. Turntable is connected to undercarriage through slewing bearing. Many important parts are installed on turntable, such as operator's cab, main luffing winch, main and aux. hoist winches, engine, mast, turntable counterweight and boom system.

3. Pendant

High strength pendant structure, it is composed of two groups of pendant. The pendant is made of high strength steel with high safety factor. The pendant is equipped with a balance beam, which can effectively balance the load on the two pendant groups, so that the force is uniform.

4. Mast

Standard mast is two-limb box structure, with good overall stability. The mast is equipped with mast raising mechanism and mast installation power pin. Auxiliary lifting cylinder is fitted to realize the self-assembly/disassembly function of track frame, central counterweight and boom. The mast can be transported with main luffing mechanism.

Superlift mast uses high strength seamless pipe as the chord and lacing members, supplemented by four-chord lattice structure which is welded by high strength steel plate, with equal section in the middle and variable section at two ends. The length of superlift mast is 30m, including one bottom section, one 6m section, one 12m section and one top section. The superlift mast is equipped with automatically controlled hydraulic backstop device.

5. Mechanism composition

See the following table for the configuration and use of the mechanisms of the crane.

No.	Mechanism name	Use	Position
1	Main hoist winch	Used for the lifting operation of boom, fixed jib and tower jib	Turntable
2	Aux. hoist winch	Used for the lifting operation of boom, fixed jib, tower jib and single pulley	Turntable
3	Boom luffing winch	Used for boom luffing operation	Middle and rear part of turntable
4	Tower jib luffing winch	Used for tower jib luffing operation and single top lifting operation	Boom butt
5	Superlift luffing winch	Used for superlift boom luffing operation	Boom base
6	Slewing gear	Used for superstructure slewing	Turntable front part
7	Travel gear	Used for crane travel	Crawler track
8	Reeving winch	Assist the reeving of wire rope	Turntable front part
9	The third hoisting mechanism	Auxiliary hook work in TBM working condition	Optional, boom butt

6. Hoist winch

Main and aux. winches have the same model and driven independently, the two pumps are combined for oil supply. Hoist winches adopt built-in reducer, constant-closed disc brake, anti rope disorder cable drum and anti-rotation wire ropes. Boom single top hoist winch model is the same as that of main/aux. hoist winches.

For main hoist winch, single line pull is 17.2t, rope diameter is ϕ 28 mm, and rope length is 820m;

For aux. hoist winch, single line pull is 17.2t, rope diameter is ϕ 28 mm, and rope length is 820m;

For the third hoist winch, single line pull is 17.2t, rope diameter is ϕ 28 mm, and rope length is 820m.

7. Luffing winch

Boom luffing winch is twin drum form, with ratchet lock device, built-in reducer and constant-closed disc brake.

Single line pull is 2*18t, rope diameter is ϕ 28 mm, rope length is 600m.

Tower jib luffing winch is set with ratchet lock device, built-in reducer and constant-closed disc brake.

Single line pull is 18t, rope diameter is ϕ 26 mm, and rope length is 620m.

Superlift luffing winch is set with ratchet lock device, built-in reducer and constant-closed disc brake.

Single line pull is 18t, rope diameter is ϕ 26 mm, and rope length is 770m.

8. Slewing gear

Slewing gear is arranged in front of turntable, two planetary reducers are used to make it externally meshed with slewing bearing, with hydraulic buffering and free swing function. Constant-closed disc brake is used; it is reliable in work and easy for maintenance.

9. Slewing bearing

The three-row roller type slewing bearing are externally meshed, with features of high strength, large bearing torque and easy maintenance.

10. Oil cylinder assembly

The connection between boom and turntable, the connection between car-body and track frame, the installation of hoisting winches and main luffing mechanism are all realized by the use of hydraulic power pin. This crane is equipped with mast raising cylinder, mast derrick cylinder, car-body outrigger cylinder, track tension cylinder and etc., the operator's cab is also set with cab tilting cylinder and cab rotation cylinder.

11. Operator's cab

Operator's cab is steel frame structure. The front is equipped with integral laminated glass, while others are tempered glass. The cab is equipped with adjustable seat, all kinds of ergonomic designed instruments and controls, vent type air conditioner, stereo, fire extinguisher, and closed circuit monitoring system, spacious and comfortable. When the crane is in operation, the cab can be tilted upward to widen the field of vision. When the crane is in transport, the cab can be turned to the front side to reduce the transport width.

12. Car-body

Car-body is made of high strength steel plate and welded in box type structure. Cross panel is set in the middle to strengthen its torsion stiffness, simple structure, high load bearing capacity and good rigidity.

13. Crawler travel unit

Crawler track consists of crawler beam, drive sprocket, idler, upper roller, lower roller and track shoe. Crawler beam is box-shape structure, its connection part with car-body is strengthened partially, and cross panel is installed in the middle of it. The rollers and track shoes are all made of high strength alloy cast steel.

The two track frames are set symmetrically, installed with crawler shoes of 1.2m in width. They can be operated synchronously or separately to realize straight travel and turning. Four-wheel-drive travel reducer, built-in planetary gear reducer and variable displacement motor drive.

14. Hydraulic system

The hydraulic system includes main system, slewing system, auxiliary system, backstop system, oil replenishment and servo system, cooling system, etc. The main system and rotary system adopt closed and electric proportional pilot variable pump control system with more energy saving, high efficiency and high precision. The main hydraulic components are well-known brands.

The main system includes lifting, main luffing, SL luffing, tower jib luffing, single pulley (optional) and traveling system. Lifting, tower jib luffing, SL luffing and single pulley motor is matched with electric variable motor, combined with electric proportional pilot variable pump to realize two-stage control and stepless speed regulation. The traveling system has a unique three-level speed regulation function to meet the speed requirements of more working conditions.

The slewing system is matched with closed electric control large displacement variable pump and double motor system, with stable start and stop, no impact, wide speed regulation range and good fine-motion performance, meeting the dual requirements of speed and precision.

The cooling system matches the high-power fin type inner core air-cooled heat exchanger and adopts an independent hydraulic system to ensure better operation of the cooling system.

The backstop hydraulic system adopts two-stage pressure control to realize flexible adjustment, and adds backstop safety control and explosion-proof control to ensure the safe, stable and reliable operation of the backstop system.

15. Electrical system

Electrical system mainly includes the following parts: engine control, monitoring instruments, auxiliary equipment, hydraulic system control, load moment limit and safety monitoring, etc.

Composition of electrical system: conventional electrical system and PLC control system.

The conventional electrical system adopts 24V parallel circuit, and the wiring of all electric equipment adopts single wire system, negative earth. It includes power supply, starting control, engine control and status monitoring, cab air conditioner and stereo, illumination (lighting), wipers, interphone, etc.

The PLC control system includes the control of hoisting, luffing, slewing, travel and the rotation and tilting of operator's cab. All movements adopt electro-hydraulic proportional control technology and controlled through PLC logic, which can effectively guarantee the realization of all functions of the crane.

Product component and system description

16.Engine system

Model: Weichai WP12.460N;
 Rated power: 338 kW/1900rpm;
 Max. torque/max. torque speed: 2110Nm/1400rpm;
 Structure type: 6-cylinder in line, water-cooling, turbocharged and inter-cooled, and electronic injection, four-stroke diesel engine;
 Emission standard: comply with the standard of Euro III or China III;
 Fuel tank capacity: 750L.

17.Counterweight

Counterweight system includes car-body counterweight, turntable counterweight and superlift counterweight.
 Car-body is installed in the 11.2t counterweight boxes at the front and rear of car-body. Mast derrick is used to realize the self-assembly and disassembly function. Car-body counterweight is 42.4t in total, composition: car-body counterweight 2 × 10t+2 × 11.2t.
 Turntable counterweights are installed on turntable rear side, three configurations of 160t, 180t and 200t are shown as follows:
 (1) 160t: counterweight tray 2 × 10t, counterweight slab 14 × 10t;
 (2) 180t: counterweight tray 2 × 10t, counterweight slab 16 × 10t;
 (3) 200t: counterweight tray 2 × 10t, counterweight slab 18 × 10t;
 Superlift counterweight is 270t in total, the composition is as follows:
 Superlift counterweight tray 1 × 10t, counterweight slab 26 × 10t (4 counterweight slabs are borrowed from turntable counterweight, 4 counterweight slabs are borrowed from car-body counterweight).

18.Hook block

There are 6 kinds of hook blocks, the configurations are as follows:

Name	500T	400T	260T	200T	50T	16T
Weight (t)	7.4	6.1	4.6	5.5	2.8	0.9
Pulley block	18	14	9	6	1	0
Configuration	Optional configuration	Standard configuration	Optional configuration	Standard configuration	Standard configuration	Standard configuration

Note: 500t hook is combined hook, which can be disassembled into 250t hook.
 400t hook is combined hook, which can be disassembled into 200t hook.
 200t hook is combined hook, which can be disassembled into 100t hook.

19.Centralized lubrication system

The use of progressive centralized lubrication system is controlled by computer programming. It can add lubricating oil automatically point by point, so as to ensure that each point is lubricated sufficiently and make the maintenance more easy and convenient.

Safety Protection Measures

The safety protection functions of this crane are as follows: Assembly mode & working mode exchange function, emergency stop function, LMI system, hydraulic system safety protection function, rope over-wind protection function, rope over-release protection function, anti-misoperation function, ratchet locking function, slewing locking function, boom backstop function, boom angle limit function, hook latch, hoist height limit function, video monitoring function, sound and light alarm function, lightning protection function. At the same time, it is equipped with illuminator light, rearview mirror, height mark lamp, anemometer, gradienter and etc.

1.Assembly mode & working mode changeover switch

In Assembly mode, over-wind protection device, boom angle limiter and load moment limiter are all out of service, in order to facilitate crane assembly; in working mode, all safety devices work normally.

2.Emergency stop function

This crane has emergency stop function, all crane movements can be stopped quickly in case of emergency.

3.LMI system

Detection function: LMI can automatically detect parameters such as boom angle and lifting weight.
 Display function: 10.4-inch high-definition LCD display, show important parameters in lifting operation through text and graphics, such as load moment percentage, actual lifting weight, rated lifting weight, radius, boom length, angle, maximum lifting height, working condition code, parts of line, limit angle and information code.
 Warning function: with complete pre-alarm and overload stop function. If it is detected that the actual weight exceeds the rated lifting capacity or boom angle exceeds the maximum value, LMI will send alarm and limit the current movement of the crane.
 The system has self-diagnosis function.

4.Hydraulic system safety protection function

Hydraulic system is equipped with hydraulic balance valve, hydraulic relief valve and other devices to ensure the stable and safe work of the system.

5.Rope over-wind protection function

There is an over-wind protection device on boom head to prevent rope from being over-wound. When lifting to a certain lifting height, the over-wind warning light on display will be on, and load moment limiter will stop the hoisting up movements at the same time.

6.Rope over-release protection function

Rope end limiter is set on each hoist winch to prevent wire rope from over-releasing. When there are only three loops of rope left on winch, the over-release warning light on display will be on, and the movement of lowering down will be stopped at the same time.

7.Anti-misoperation function

The handles have anti-misoperation function. A safety protection switch is set at the front of the handle. If the switch is not pressed, all movement signals are shielded, and the handle is unable to work to prevent operation error.

8.Ratchet locking function

Ratchet locking device is used to lock the luffing winch so that boom is stopped and placed safely at non-working state.

9.Slewing locking function

Slewing locking device is used to lock superstructure slewing when the crane is stopped.

10.Backstop function

Main boom, superlift mast, tower jib and tower jib struts are equipped with backstop devices to prevent boom from tilting backward.

11.Boom angle limit function

In working mode, when boom is elevated to the max. working angle, boom raising will be stopped under the control of load moment limiter and hoist limit switch; when boom is elevated to the min. working angle, boom lowering will be stopped under the control of load moment limiter, and a sound warning will be given. The upper and lower limits of tower jib are controlled by angle limit switch.

12.Hook latch

All lifting hooks are equipped with latch to prevent the suspended rope on the hook head from falling off.

13.Hoist height limit function

Suspended height limit device is installed on boom head, when the hook contacts the height limit device, the lifting movement will be stopped to avoid damage to the wire rope.

Safety Protection Measures

14. Closed circuit monitoring system

The system is composed of camera and monitor. It is used to monitor the hoist winches, boom luffing winch, jib luffing winches and etc.

15. Sound and light warning function

It is equipped with tri-color warning light and audio/video alarm. It can display the load and movement status of the vehicle, flash the lights and send sound alarm to alert the driver and people outside the vehicle.

16. Lightning protection function

Lightning protection grounding system and surge protector system are optionally configured for this crane to reduce lightning strike possibility of the control system.

17. Illuminator light

There are illuminator lights in front of turntable, above the cab and inside the cab for lighting.

18. Rearview mirror

It is outside the operator's cab so that the driver can observe the situation behind the machine.

19. Height mark lamp

It is located on boom tip for high level operation warning.

20. Anemometer

It can detect the current wind speed and send signal to the monitor in operator's cab to remind the operator for safe operation in wind load.

21. Gradiometer

It is equipped with electronic and mechanical gradiometers, which can show the ground gradient and provide reference for the operator.

6. Rope over-release protection function

Rope end limiter is set on each hoist winch to prevent wire rope from over-releasing. When there are only three loops of rope left on winch, the over-release warning light on display will be on, and the movement of lowering down will be stopped at the same time.

7. Anti-misoperation function

The handles have anti-misoperation function. A safety protection switch is set at the front of the handle. If the switch is not pressed, all movement signals are shielded, and the handle is unable to work to prevent operation error.

8. Ratchet locking function

Ratchet locking device is used to lock the luffing winch so that boom is stopped and placed safely at non-working state.

9. Slewing locking function

Slewing locking device is used to lock superstructure slewing when the crane is stopped.

10. Backstop function

Main boom, superlift mast, tower jib and tower jib struts are equipped with backstop devices to prevent boom from tilting backward.

11. Boom angle limit function

In working mode, when boom is elevated to the max. working angle, boom raising will be stopped under the control of load moment limiter and hoist limit switch; when boom is elevated to the min. working angle, boom lowering will be stopped under the control of load moment limiter, and a sound warning will be given. The upper and lower limits of tower jib are controlled by angle limit switch.

12. Hook latch

All lifting hooks are equipped with latch to prevent the suspended rope on the hook head from falling off.

13. Hoist height limit function

Suspended height limit device is installed on boom head, when the hook contacts the height limit device, the lifting movement will be stopped to avoid damage to the wire rope.

Main parts list

No.	Part Name		Manufacturer
1	Engine		Weichai or other equivalently famous brands
2	Main winch	Reducer	Zhuzhou Gear or other equivalently famous brand
		Motor	Rexroth or other equivalently famous brand
	Aux. winch	Reducer	Zhuzhou Gear or other equivalently famous brand
		Motor	Rexroth or other equivalently famous brand
	Main luffing winch	Reducer	Zhuzhou Gear or other equivalently famous brand
		Motor	Rexroth or other equivalently famous brand
	Superlift luffing winch	Reducer	Zhuzhou Gear or other equivalently famous brand
		Motor	Rexroth or other equivalently famous brand
	Slewing	Motor	Huade or other equivalently famous brand
		Reducer	Zhuzhou Gear or other equivalently famous brand
Travel	Motor	Danfoss or other equivalently famous brand	
	Reducer	NGC or other equivalently famous brand	
	Main pump	Linde or other equivalently famous brand	
	Main valve	Zhejiang Shengbang or other equivalently famous brand	
3	Electrical system	Load moment limiter	Wika or other equivalently famous brand
4	Slewing bearing		Rothe Erde or other equivalently famous brand
5	Hook block		Dachangshi or other equivalently famous brand

Note: Due to different manufacturers, the model of the parts will also be different.

Main parts list

1.XGC500A crawler crane outline dimension

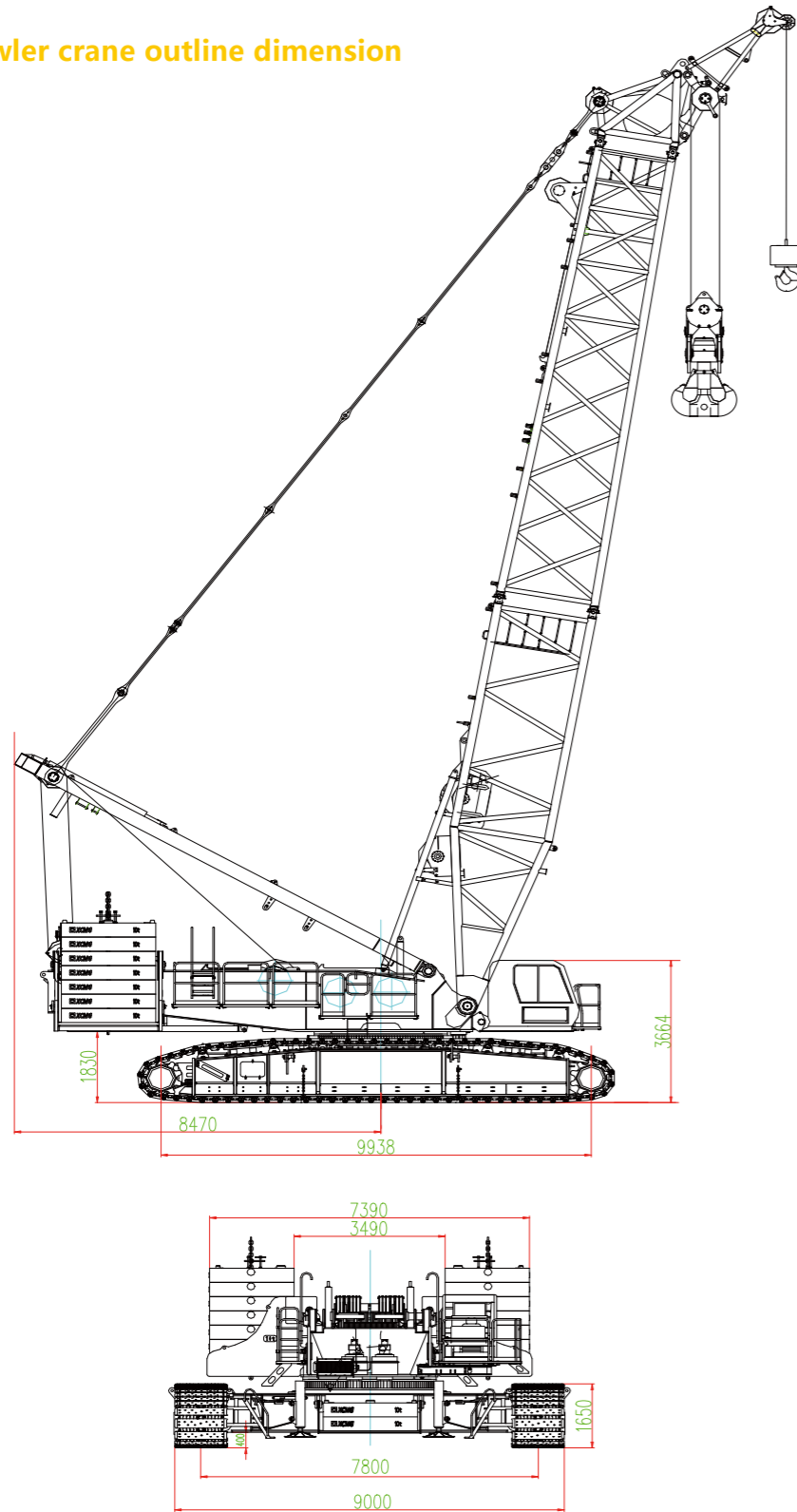


Fig. 1 XGC500A crawler crane outline dimension (standard working condition)

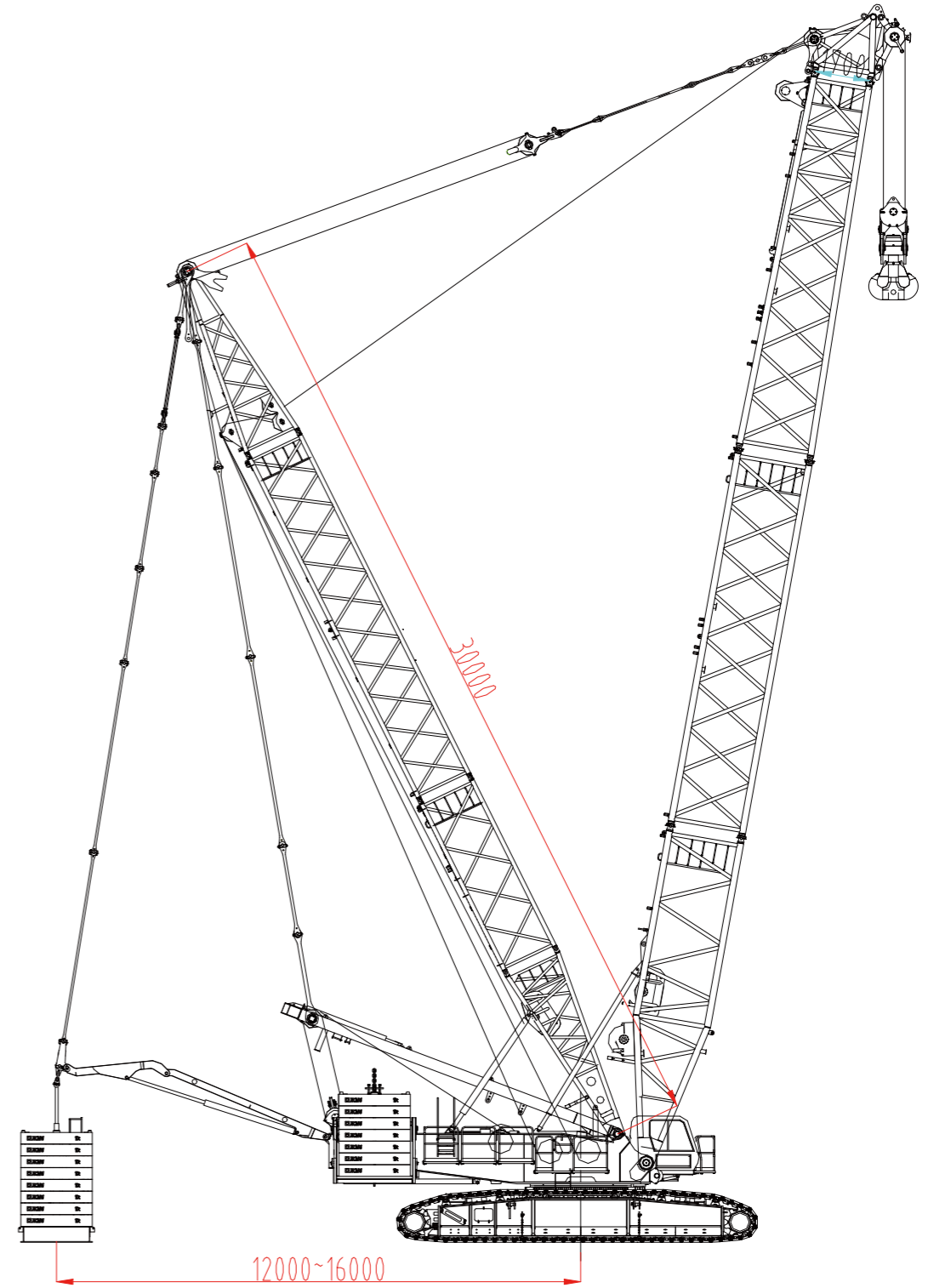


Fig. 2 XGC500-A crawler crane outline dimension (superlift working condition)

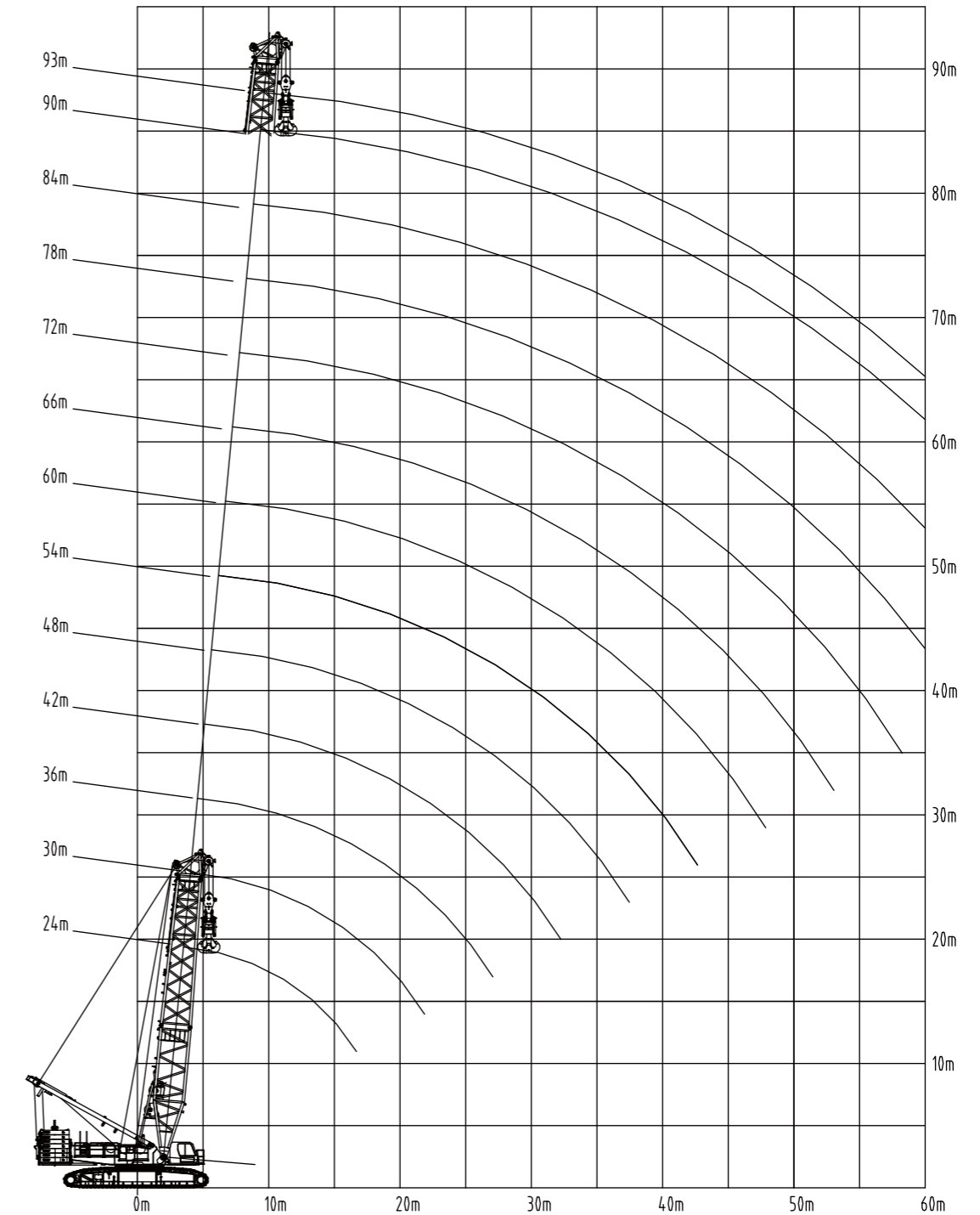
Main parts list

2.XGC500A crawler crane technical parameters

		Item	Unit	Data	
Max. rated lifting capacity	Standard working condition	Heavy boom	t	460	
		Tower jib	t	218	
		TBM jib	t	450 (main hook) \ 260 (aux. hook)	
		Wind power jib	t	140	
	Superlift working condition	Heavy boom	t	500	
		Tower jib	t	260	
		TBM jib	t	500 (main hook) \ 260 (aux. hook)	
		Wind power jib (light duty)	t	165	
		Wind power jib (strengthened duty)	t	180	
			Superlift working condition	t.m	6500
	Standard working condition	Heavy boom length	m	24 ~ 93	
		Tower jib length	m	24 ~ 72	
		TBM jib length	m	24 ~ 30+9 ~ 12	
		Wind power jib length	m	84~102+12	
	Superlift working condition	Heavy boom length	m	36 ~ 99	
		Heavy boom length (strengthened)		54 ~ 123	
Tower jib length		m	24 ~ 84		
TBM jib length		m	36+9 ~ 12		
Wind power jib length (light duty)		m	90~105+12		
		Wind power jib length (strengthened)	m	90~126+12	
Speed	Hoist winch max. single line speed		m/min	130	
	Boom luffing winch max. single line speed		m/min	2 × 53	
	Superlift luffing winch max. single line speed		m/min	105	
	Max. slewing speed (no load)		rpm	1.0	
	Max. travel speed		km/h	0.73	
Engine rated power			Kw/rpm	338/1900	
Total crane weight (24m heavy boom, 500t hook block)			t	375	
Mean ground pressure			MPa	0.132	
Grade-ability (with base boom)				30%	
Max. mass of single unit in transport state			t	55	
Max. dimension of single unit (turntable) in transport state (L × W × H)			m	11.5 × 3.4 × 3.4	

Lifting capacity table in typical working conditions

1.Heavy boom standard working condition HB



Lifting capacity table in typical working conditions

Turntable counterweight 160t car-body counterweight 40t

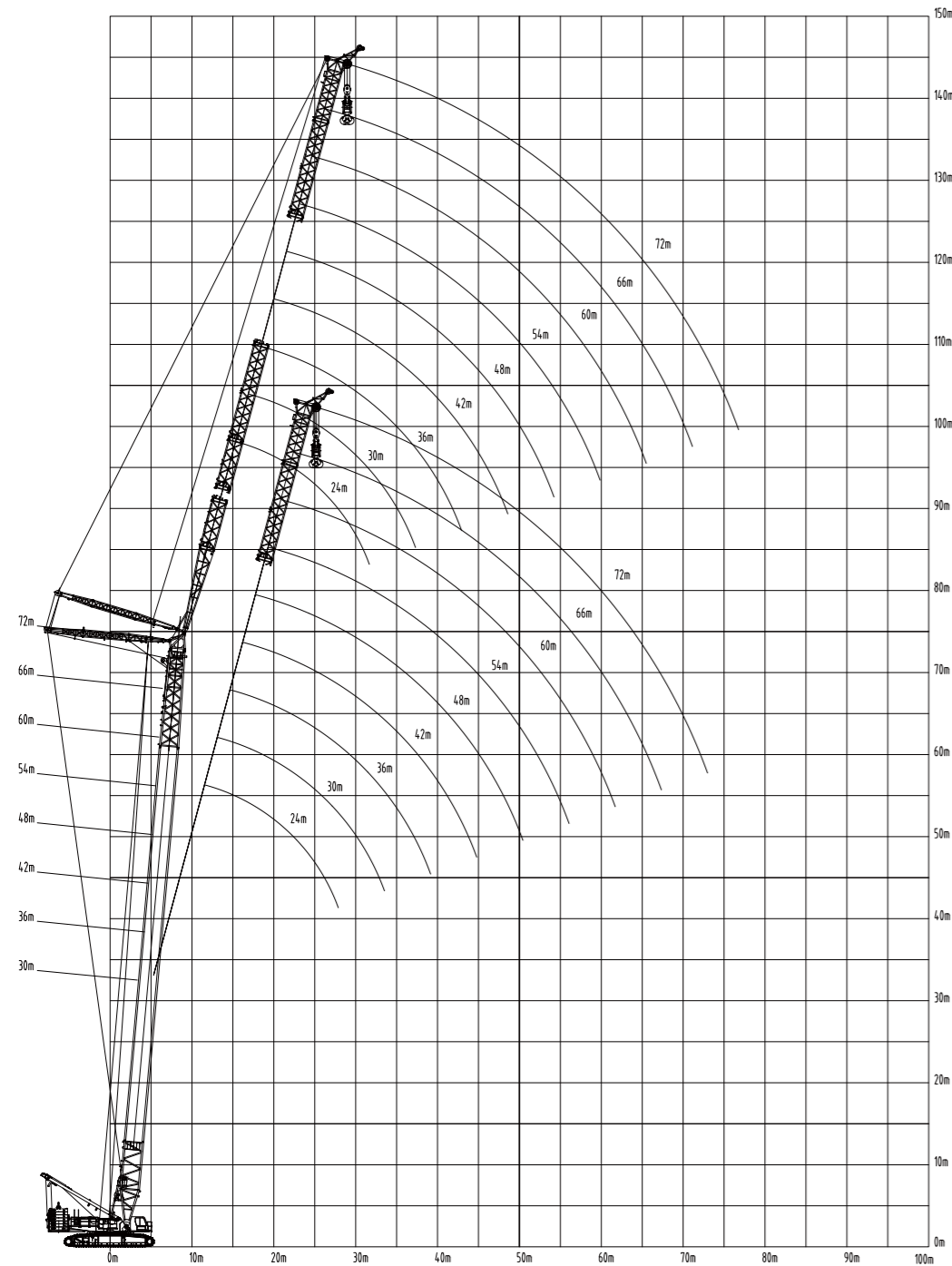
Radius (m)	Boom length (m)												
	24	30	36	42	48	54	60	66	72	78	84	90	93
6	460												
7	440	420											
8	380	372	347	324									
9	339	318	299	281	266								
10	285	277	262	248	235	223	212						
11	245	240	232	221	210	200	191	183	174				
12	215	211	207	199	190	182	174	166	158	152			
13	188	185	181	180	173	166	159	152	145	139	134		
14	170	166	164	159	156	152	146	140	134	128	123	118	115
16	140	137	135	133	130	128	125	120	114	110	106	101	99
18	119	117	116	113	112	110	108	104	99	96	92	88	86
20	102	98	97	96	95	94	92	91	87	84	81	77	75
22	89	87	85	83	82	81	80	78	77	74	71	68	66
24		78	77	75	74	73	71	70	69	66	63	60	58
26		67	66	64	63	62	61	60	59	59	56	53	52
28		61	60	56	56	55	54	53	52	51	50	49	47
30			54	50	50	49	48	47	46	45	44	43	41
34				42	40	39	38	37	36	35	34	33	33
38				36	33	32	31	30	28	27	26	25	24
42					27	26	25	24	22	21	20	19	18
46						22	20	19	18	17	16	14	14
50							16	15	14	13	12	10	10

Turntable counterweight 180t car-body counterweight 40t

Radius (m)	Boom length (m)											
	36	42	48	54	60	66	72	78	84	90	93	
8	367	348										
9	323	305	289									
10	281	267	256	243	231							
11	253	240	229	218	208	199	190					
12	225	216	207	198	189	181	173	166				
13	197	192	189	181	173	166	159	153	146			
14	177	173	173	166	159	153	146	141	135	130	127	
16	147	144	141	142	137	131	126	121	117	112	109	
18	124	123	120	119	119	114	110	105	102	98	95	
20	108	105	104	103	101	101	96	93	89	86	84	
22	95	92	90	90	88	86	85	82	79	76	74	
24	83	81	79	78	77	76	74	73	71	68	66	
26	74	72	70	69	68	67	66	66	63	60	59	
28	65	63	62	61	60	59	58	57	57	54	53	
30	61	59	56	55	54	53	51	50	50	49	47	
34		49	47	44	43	42	41	40	39	38	37	
38		40	38	36	35	34	33	32	31	30	29	
42			33	30	29	28	26	25	24	23	22	
46				25	24	23	21	20	19	18	17	
50					19	18	17	16	15	14	13	
54						16	15	13	12	11	10	

Lifting capacity table in typical working conditions

2. Tower jib HW in standard working condition



Car-body counterweight 180t, turntable counterweight 40t, boom angle 85°, main boom length 30m

Radius m	Jib length m									Radius m
	24	30	36	42	48	54	60	66	72	
14	184									14
15	171	165								15
16	160	155								16
17	150	145	141							17
18	141	137	133	129						18
19	132	130	126	122						19
20	124	122	120	116	113					20
22	111	109	108	105	102	100				22
24	99	99	97	96	94	91	89	80		24
26	89	89	89	87	86	84	82	79	69	26
28	81	81	81	80	79	77	76	74	68	28
30		74	74	73	72	71	70	69	66	30
32		68	68	67	67	66	65	64	62	32
34		63	63	62	62	61	60	59	58	34
36			58	58	57	57	56	55	54	36
38			54	54	53	53	52	52	51	38
40			50	50	50	49	48	48	47	40
42				47	46	46	45	45	44	42
44				44	44	43	42	42	41	44
46				41	41	41	40	39	39	46
48					39	38	37	37	36	48
50					36	36	35	35	34	50
52					34	34	33	33	32	52
54						32	32	31	31	54
56						31	30	30	29	56
58							28	28	27	58
60							27	27	26	60
64								24	23	64
68								22	21	68
72									19	72

Lifting capacity table in typical working conditions

Car-body counterweight 180t, turntable counterweight 40t, boom angle 85°, main boom length 42m

Radius m	Jib length m									Radius m
	24	30	36	42	48	54	60	66	72	
15	158									15
16	148	143								16
17	140	135								17
18	132	128	124							18
19	125	121	118	114						19
20	119	115	112	109						20
22	108	105	102	99	96	94				22
24	97	96	93	91	88	86	83			24
26	89	87	86	84	81	79	77	72		26
28	80	80	79	78	75	74	71	69	62	28
30		73	73	72	70	68	66	65	60	30
32		67	67	67	65	64	62	60	58	32
34		62	62	62	61	60	58	57	55	34
36			58	57	56	56	54	53	51	36
38			54	53	53	52	51	50	48	38
40			50	50	49	49	48	47	46	40
42				46	46	46	45	44	43	42
44				44	43	43	42	42	41	44
46				41	40	40	39	39	38	46
48					38	38	37	37	36	48
50					36	36	35	35	34	50
52					34	34	33	33	32	52
54						32	31	31	30	54
56						30	29	29	28	56
58						29	28	28	27	58
60							26	26	26	60
64							24	24	23	64
68								21	21	68
72									19	72
76									17	76

Car-body counterweight 180t, turntable counterweight 40t, boom angle 85°, main boom length 54m

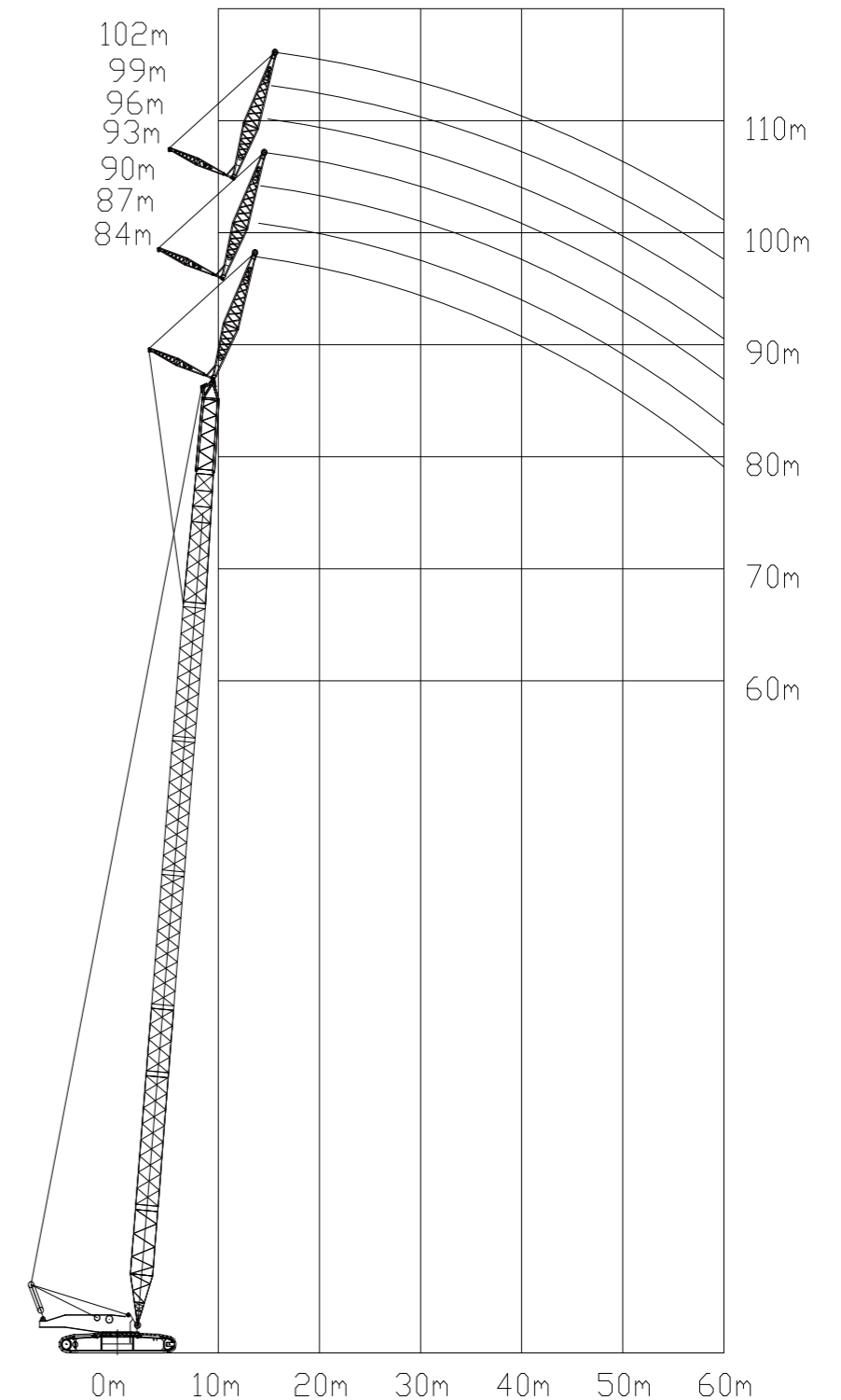
Radius m	Jib length m									Radius m
	24	30	36	42	48	54	60	66	72	
16	137									16
17	130	125								17
18	123	119								18
19	116	113	110							19
20	111	107	104	101						20
22	101	98	95	92	90					22
24	93	90	88	85	82	80				24
26	86	83	81	79	76	74	71	62		26
28	79	77	75	73	71	69	67	61	54	28
30	73	72	70	68	66	64	62	59	53	30
32		67	66	64	62	60	58	57	51	32
34		62	61	60	58	56	54	53	50	34
36		57	57	56	54	53	51	50	48	36
38			53	52	51	50	48	47	45	38
40			49	49	48	47	46	44	43	40
42			46	46	45	45	43	42	40	42
44				43	42	42	41	40	38	44
46				40	40	40	39	38	36	46
48				38	38	37	36	36	34	48
50					35	35	34	34	33	50
52					33	33	32	32	31	52
54					30	31	31	30	30	54
56						29	29	29	28	56
58						27	27	27	26	58
60							25	26	25	60
64							22	22	22	64
68								19	20	68
72									17	72
76									15	76

Lifting capacity table in typical working conditions

Car-body counterweight 180t, turntable counterweight 40t, boom angle 85°, main boom length 66m

Radius m	Jib length m									Radius m
	24	30	36	42	48	54	60	66	72	
17	120									17
18	113	110								18
19	108	105								19
20	103	100	97							20
22	94	91	89	86						22
24	87	84	82	79	77	71				24
26	80	78	76	73	71	69	61			26
28	74	72	70	68	66	64	60	53		28
30	70	67	66	64	62	60	57	51	46	30
32	65	63	61	60	58	56	54	50	45	32
34		59	58	56	54	53	51	48	43	34
36		56	54	53	51	50	48	46	42	36
38			51	50	48	47	45	44	40	38
40			49	47	45	44	42	41	39	40
42			45	45	43	42	40	39	37	42
44				41	41	40	38	37	35	44
46				38	38	38	36	35	33	46
48				35	35	35	34	33	32	48
50					32	32	32	31	30	50
52					30	30	30	29	28	52
54					27	28	28	27	27	54
56						26	26	26	25	56
58						24	24	24	24	58
60						22	22	22	22	60
64							19	20	19	64
68								17	17	68
72								15	15	72
76									13	76

Standard working condition wind power jib HJ



Lifting capacity table in typical working conditions

Angle between boom and jib is 10°, jib length 12m
Turntable counterweight 200t, car-body counterweight 40t

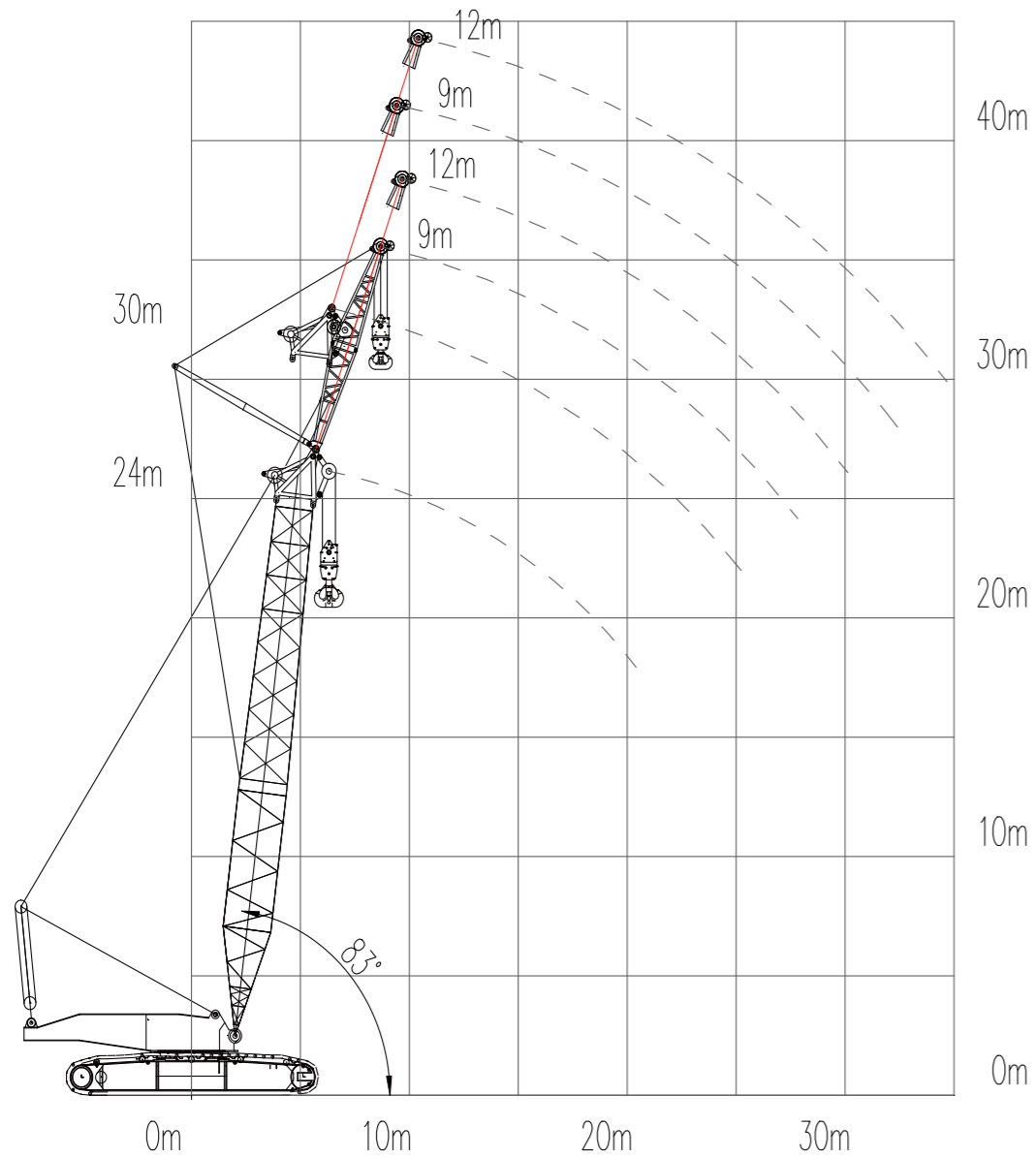
Radius (m)	Main boom length (m)						
	84	87	90	93	96	99	102
15	140	135					
16	135	131	130	126	123		
17	125	122	120	118	115	113	110
18	117	115	113	111	110	107	105
19	110	109	107	105	103	100	98
20	105	102	100	98	96	94	92
22	95	92	90	88	86	84	83
24	83	82	80	79	77	76	74
26	76	74	73	72	70	69	68
28	69	68	67	65	64	62	61
30	63	62	61	60	58	57	56
32	58	57	56	55	53	52	51
34	52	51	50	49	48	47	45
36	46	45	44	43	42	41	40
38	42	41	40	39	38	37	36
40	38	37	36	35	35	34	33
42	35	34	33	32	31	31	30
44	32	31	31	30	29	28	27
46	30	29	29	28	27	26	25
48	28	27	26	25	24	24	23
50	24	23	23	22	21	21	20

Angle between boom and jib is 15°, jib length 12m
Turntable counterweight 200t, car-body counterweight 40t

Radius (m)	Main boom length (m)						
	84	87	90	93	96	99	102
16	130	127	125				
17	123	121	119	117	115	110	
18	116	114	112	110	108	106	105
19	109	107	106	104	102	100	98
20	103	101	100	98	96	95	93
22	93	91	90	88	87	85	84
24	84	82	81	80	78	77	75
26	76	75	74	72	71	69	68
28	70	68	67	66	65	63	62
30	64	62	61	60	59	58	57
32	59	57	56	55	54	53	52
34	52	51	50	49	48	47	46
36	47	46	45	44	43	42	41
38	43	42	41	40	39	38	37
40	39	38	38	37	37	36	35
42	36	35	35	34	33	33	32
44	33	32	32	32	30	30	29
46	31	30	30	29	28	27	26
48	28	28	27	26	25	24	24
50	25	23	23	22	22	21	20

Lifting capacity table in typical working conditions

Standard working condition TBM jib HF



Main boom length 24m, jib length 9m, angle between boom and jib is 10°,
Turntable counterweight 160t, car-body counterweight 40t

Main hook radius	Main boom angl	Main hook load	Auxiliary hook radius	Auxiliary hook load	Combined lifting
6	83.75	450	8.3	260	400
7	81.33	430	9.6	260	362
8	78.88	370	11	237	302
9	76.4	315	12.4	199	257
10	73.9	276	13.8	171	219
11	71.35	237	15.2	149	191
12	68.76	206	16.6	130	168
13	66.11	180	18	115	148
14	63.39	159	19.4	102	132
15	60.61	141	20.8	92	119
16	57.73	127	22.2	83	108
17	54.74	114	23.6	75	99
18	51.62	104	24.9	68	91
19	48.35	95	26.3	63	83
20	44.87	87	27.7	57	77
22	37.06	73	30.4	49	67

Lifting capacity table in typical working conditions

Main boom length 24m, jib length 12m, angle between boom and jib is 10°,
Turntable counterweight 160t, car-body counterweight 40t

Main hook radius	Main boom angle	Main hook load	Main hook load	Auxiliary hook load	Combined lifting
6	83.75	450	9.1	250	390
7	81.33	400	10.6	240	331
8	78.88	350	12.1	207	278
9	76.4	310	13.6	175	236
10	73.9	274	15.2	151	202
11	71.35	234	16.7	131	176
12	68.76	204	18.2	115	155
13	66.11	178	19.7	102	137
14	63.39	157	21.2	91	123
15	60.61	139	22.7	81	111
16	57.73	125	24.2	74	100
17	54.74	112	25.7	67	92
18	51.62	102	27.2	61	84
19	48.35	93	28.7	56	78
20	44.87	85	30.1	51	72
22	37.06	71	33.1	43	62

Main boom length 30m, jib length 9m, angle between boom and jib is 10°,
Turntable counterweight 160t, car-body counterweight 40t

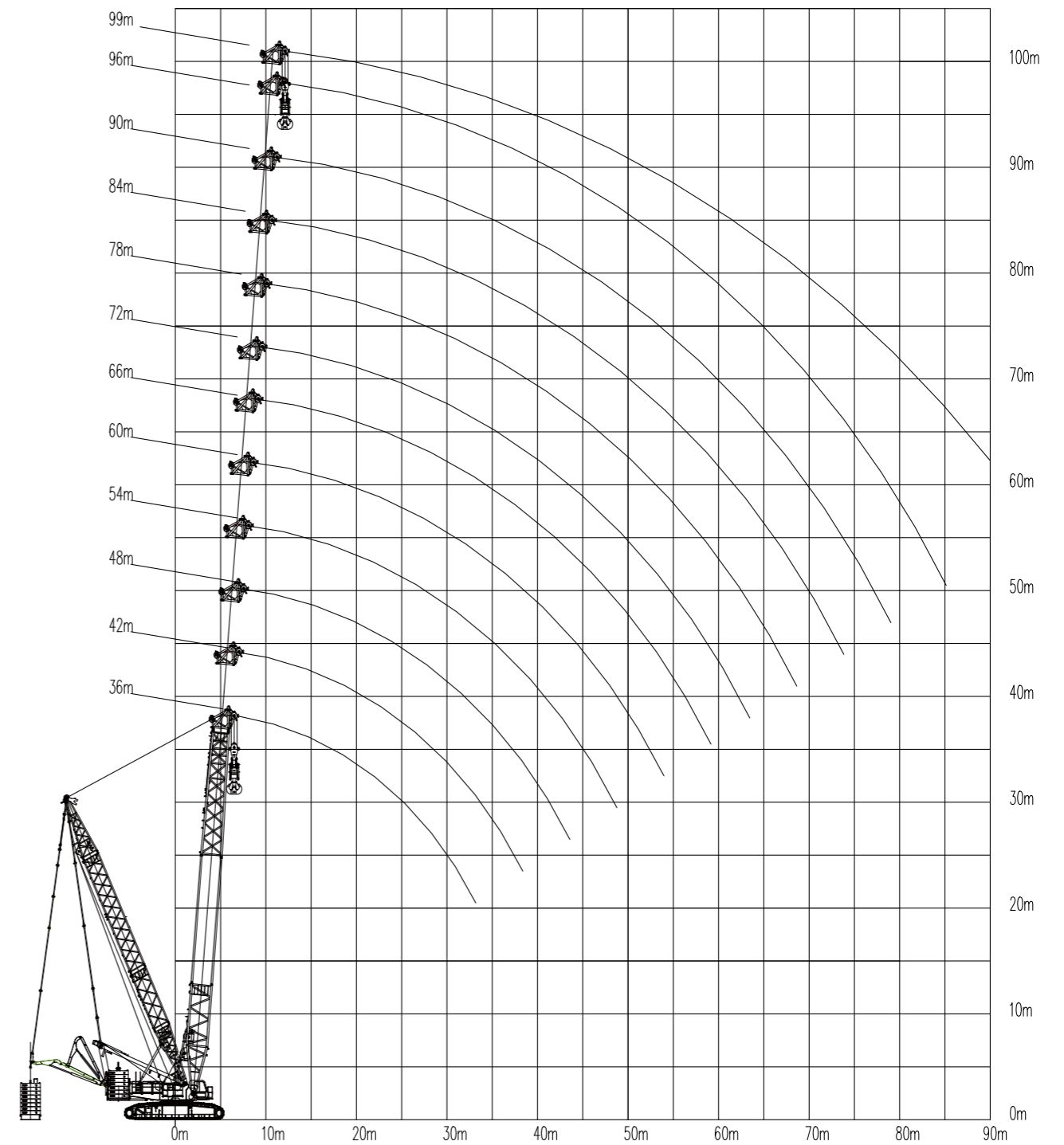
Main hook radius	Main boom angle	Main hook load	Auxiliary hook radius	Auxiliary hook load	Combined lifting
7	83.08	400	9.4	250	325
8	81.14	343	10.7	222	277
9	79.19	291	12	192	239
10	77.22	252	13.3	167	209
11	75.23	219	14.6	146	183
12	73.22	191	15.9	129	161
13	71.18	169	17.3	114	144
14	69.12	151	18.6	102	130
15	67.02	134	19.9	92	116
16	64.89	120	21.2	82	106
17	62.71	109	22.5	75	96
18	60.48	98	23.8	68	89
19	58.2	90	25.1	62	81
20	55.85	82	26.4	57	76
22	50.92	70	29	49	65
24	45.58	59	31.6	41	57
26	39.64	51	34.2	36	50
26	39.64	56	36.8	37	52

Lifting capacity table in typical working conditions

Main boom length 24m, jib length 12m, angle between boom and jib is 10°,
Turntable counterweight 160t, car-body counterweight 40t

Main hook radius	Main boom angle	Main hook load	Auxiliary hook radius	Auxiliary hook load	Combined lifting
7	83.08	370	10.2	230	303
8	81.14	339	11.6	197	256
9	79.19	289	13.1	171	222
10	77.22	250	14.5	149	194
11	75.23	217	15.9	130	170
12	73.22	190	17.3	115	151
13	71.18	167	18.7	103	135
14	69.12	149	20.1	92	121
15	67.02	133	21.5	82	109
16	64.89	118	22.9	75	99
17	62.71	107	24.3	68	91
18	60.48	97	25.7	61	83
19	58.2	88	27.1	57	76
20	55.85	80	28.5	52	71
22	50.92	68	31.3	44	61
24	45.58	57	34	38	53
26	39.64	50	36.8	32	47

SL working condition heavy duty boom SHB



Lifting capacity table in typical working conditions

Turntable counterweight 160t car-body counterweight 40t SL counterweight 0~190t
SL mast radius 13m SL counterweight radius 12~16m

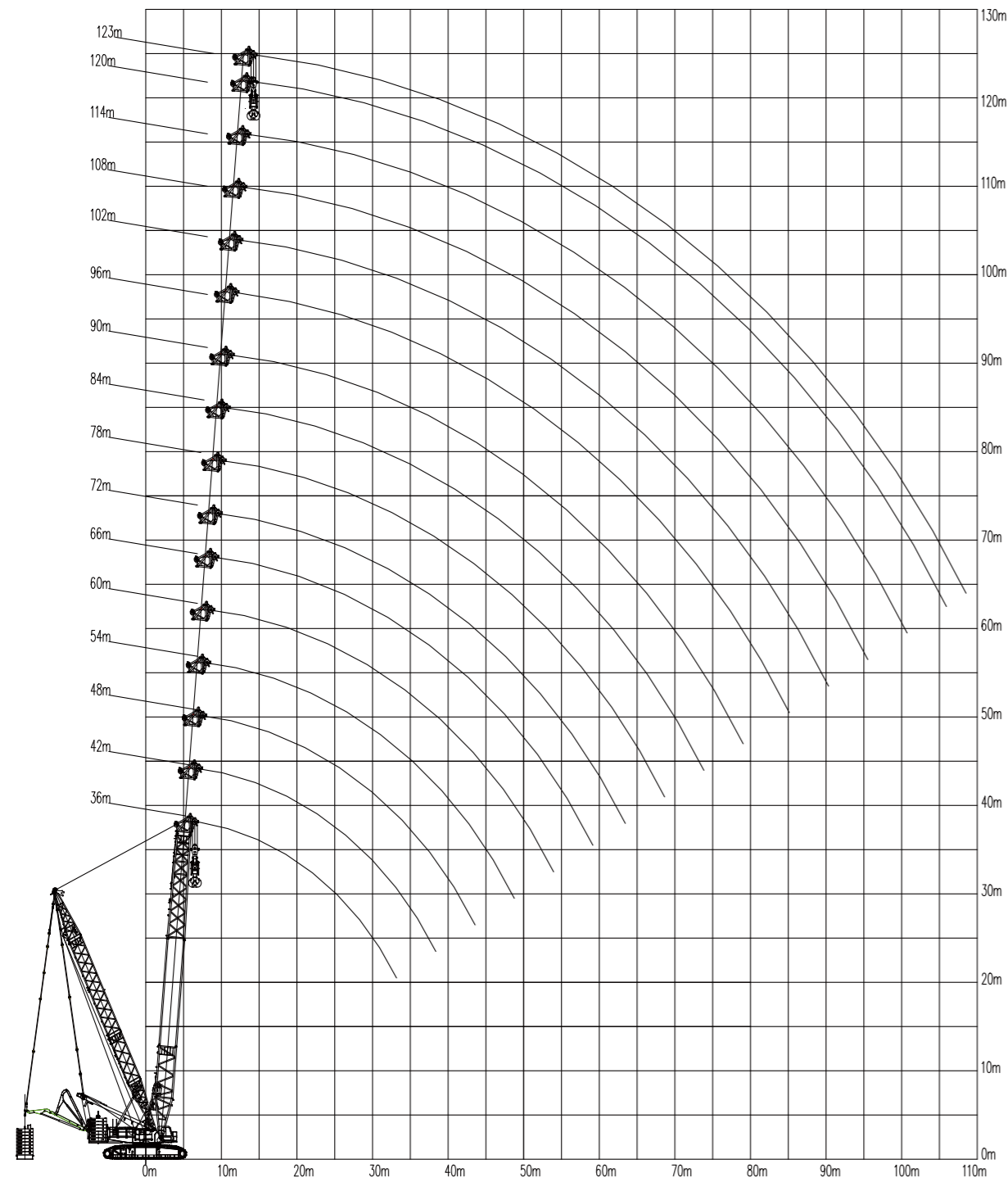
Radius (m)	Main boom length (m)											
	36	42	48	54	60	66	72	78	84	90	96	99
8	500	500										
9	500	500	450	380								
10	500	500	450	380	355							
11	500	500	450	380	355	325	295					
12	500	500	450	380	355	325	295	255	230			
14	439	451	450	380	355	325	295	255	230	209	195	185
16	370	396	394	380	355	325	295	255	230	209	195	185
18	318	340	350	349	335	325	295	255	230	209	195	185
20	278	296	313	314	313	312	285	255	230	209	195	185
22	245	261	276	289	282	281	277	250	230	209	195	185
24	218	233	246	257	256	254	250	247	230	209	195	185
26	196	209	221	231	232	231	228	225	223	209	195	185
28	176	189	200	209	211	210	208	206	204	202	195	180
30	160	172	182	190	193	192	190	189	188	186	184	175
34		143	152	159	166	164	162	161	160	159	158	157
38		120	129	136	142	142	140	139	139	138	137	136
42			110	116	122	126	123	122	121	120	119	119
46				100	106	110	109	108	107	106	105	105
50					92	96	98	96	96	95	94	93
54						84	87	87	86	85	84	83
58						74	76	79	78	77	76	75
62							67	69	72	70	69	68
66								62	64	63	62	62
70									57	59	57	56
74									51	52	52	51
78										46	47	47
82											42	42
86												37

Turntable counterweight 120t car-body counterweight 0t SL counterweight 0~270t
SL mast radius 13m SL counterweight radius 12~16m

Radius (m)	Main boom length (m)											
	36	42	48	54	60	66	72	78	84	90	96	99
8	500	500										
9	500	500	450	380								
10	500	500	450	380	355							
11	500	500	450	380	355	325	295					
12	500	500	450	380	355	325	295	255	230			
14	439	451	450	380	355	325	295	255	230	209	195	185
16	370	396	394	380	355	325	295	255	230	209	195	185
18	318	340	350	349	335	325	295	255	230	209	195	185
20	278	296	313	314	313	312	285	255	230	209	195	185
22	245	261	276	289	282	281	277	250	230	209	195	185
24	218	233	246	257	256	254	250	247	230	209	195	185
26	196	209	221	231	232	231	228	225	223	209	195	185
28	176	189	200	209	211	210	208	206	204	202	195	180
30	160	172	182	190	193	192	190	189	188	186	184	175
34		143	152	159	166	164	162	161	160	159	158	157
38		120	129	136	142	142	140	139	139	138	137	136
42			110	116	122	126	123	122	121	120	119	119
46				100	106	110	109	108	107	106	105	105
50					92	96	98	96	96	95	94	93
54						84	87	87	86	85	84	83
58						74	76	79	78	77	76	75
62							67	69	72	70	69	68
66								62	64	63	62	62
70									57	59	57	56
74									51	52	52	51
78										46	47	47
82											42	42
86												37

Lifting capacity table in typical working conditions

SL working condition strengthened heavy duty boom SHB-S



Turntable counterweight 160t car-body counterweight 40t SL counterweight 0~190t
 SL mast radius 13m SL counterweight radius 12~16m

Radius (m)	Main boom length (m)															
	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	123
8	500	500														
9	500	500	451	371												
10	500	500	451	371	335											
11	500	480	451	371	335	323	285									
12	465	478	451	371	335	323	285	258	239							
14	392	409	410	371	335	323	285	258	239	221	200					
16	333	352	358	333	328	323	285	258	239	221	200	185	168			
18	286	305	317	292	289	285	280	258	239	221	200	185	168	158	145	141
20	250	266	279	260	259	254	250	237	233	221	200	185	168	158	145	141
22	220	235	247	232	232	230	225	222	219	215	191	185	168	158	145	141
24	196	209	220	209	208	208	206	201	199	195	183	178	168	158	145	141
26	176	188	198	189	189	189	188	185	181	178	176	173	168	143	139	141
28	158	169	178	173	173	172	171	170	168	163	161	158	156	141	137	141
30	143	154	162	158	158	157	156	155	154	152	150	146	143	130	136	135
34		128	136	132	134	133	132	131	130	129	128	126	124	119	117	116
38		107	115	112	116	115	114	113	112	111	110	108	107	104	102	101
42			97	95	100	101	99	98	98	96	95	93	92	90	89	88
46				82	86	89	87	87	86	84	83	81	81	78	77	77
50					75	78	78	77	76	74	74	72	71	68	67	67
54					65	68	70	69	68	66	65	63	63	60	59	58
58						59	61	62	61	59	58	56	56	53	52	51
62							54	55	55	53	52	50	49	47	46	45
65							48	50	51	49	48	46	45	43	42	41
66								49	50	48	47	45	44	42	41	40
70								42	44	43	42	40	40	37	36	35
74									38	38	38	36	35	33	32	31
78										33	34	33	32	29	28	28
82											29	28	28	26	25	24
86												24	24	22	22	21
90													20	21	18	18
94														17	15	15

Lifting capacity table in typical working conditions

SL working condition wind power jib performance table (angle between main boom and jib 10°, jib 12m)
160t turntable counterweight +40t car-body counterweight +190t SL counterweight, SL counterweight radius 16m

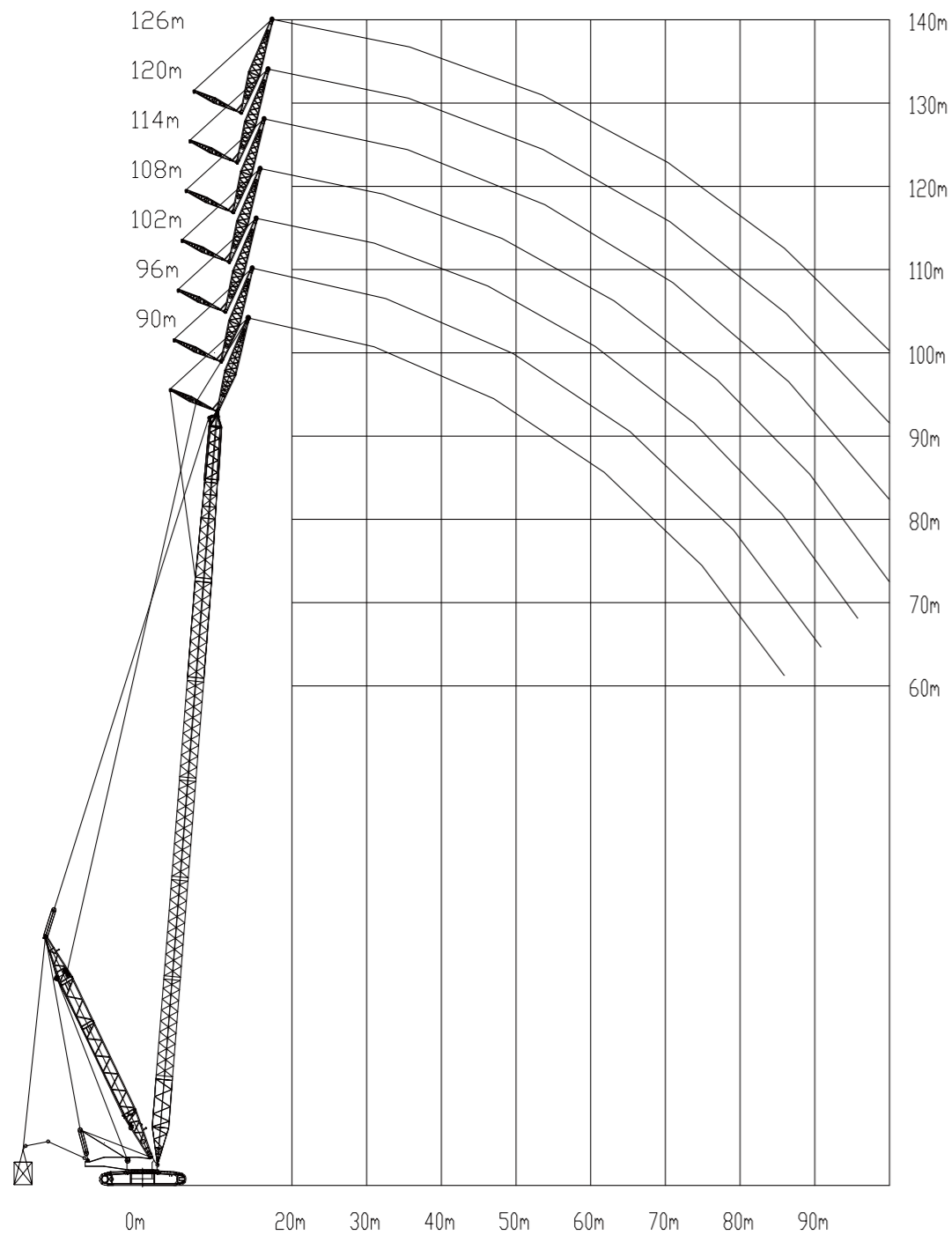
Radius (m)	Main boom length (m)					
	90	93	96	99	102	105
16	165	162	155			
17	163	160	152	145		
18	162	159	151	143	140	135
19	161	157	150	142	135	130
20	160	156	149	142	135	130
22	158	154	147	140	133	130
24	156	152	145	138	132	130
26	153	150	143	137	130	129
28	151	148	141	135	129	127
30	149	146	140	133	127	125
32	147	144	139	132	126	123
34	136	135	136	130	124	121
36	126	125	125	129	123	118
38	118	117	117	115	115	117
40	110	109	109	108	108	107
42	102	102	102	101	100	100
44	96	95	95	94	94	93
46	90	90	89	88	88	87
48	85	84	84	83	83	82
50	80	79	79	78	78	77
52	75	75	74	74	73	73
54	71	71	70	70	69	69
56	68	67	67	66	65	65
58	64	63	63	62	62	61
60	61	60	60	59	59	58
64	55	54	54	53	53	52
68	50	49	49	48	48	47
72	45	45	44	43	43	42
76	41	40	40	39	39	38

SL working condition wind power jib performance table (angle between main boom and jib 10°, jib 12m)
120t turntable counterweight +0t car-body counterweight +270t SL counterweight, SL counterweight radius 16m

Radius (m)	Main boom length (m)					
	90	93	96	99	102	105
16	165	162	155			
17	163	160	152	145	140	135
18	162	159	151	143	135	130
19	161	157	150	142	135	130
20	160	156	149	142	133	130
22	158	154	147	140	132	130
24	156	152	145	138	130	129
26	153	150	143	137	129	127
28	151	148	141	135	127	125
30	149	146	140	133	126	123
32	147	144	139	132	124	121
34	145	143	136	130	123	118
36	143	140	134	129	121	117
38	141	139	133	127	120	114
40	130	130	131	126	120	112
42	122	121	121	124	118	110
44	114	114	113	113	106	108
46	108	107	107	106	99	99
48	102	101	101	100	94	93
50	96	95	95	94	89	88
52	91	90	90	89	84	83
54	86	85	85	84	80	79
56	82	81	81	80	76	75
58	78	77	77	76	72	71
60	74	73	73	72	65	64
64	67	67	66	65	59	58
68	61	61	60	59	54	53
72	56	55	55	54	49	48
76	51	51	50	50	140*	135*

Lifting capacity table in typical working conditions

SL working condition strengthened wind power jib SHJ-S



SL working condition wind power jib performance table (angle between main boom and jib 10°, jib 12m)
120t turntable counterweight +0t car-body counterweight +0~270t SL counterweight, SL counterweight radius 16m

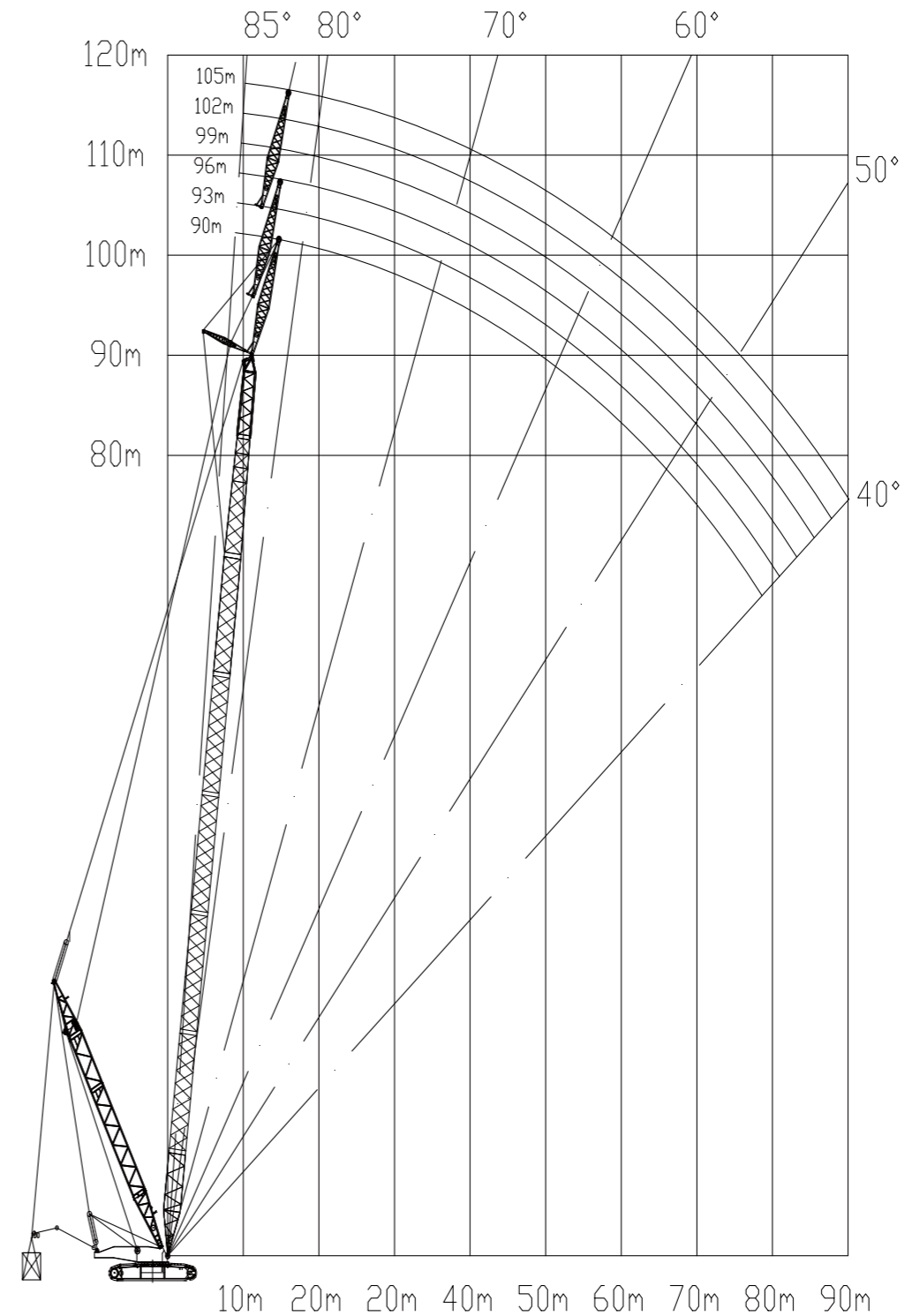
Radius (m)	Main boom length (m)												
	90	93	96	99	102	105	108	111	114	117	120	123	126
16	180	180	177										
17	180	180	177	170									
18	180	180	176	168	180	170	160	153					
19	180	180	175	167	175	166	160	152	150	142			
20	180	180	174	165	170	164	155	150	150	142	135	126	120
22	180	180	171	164	168	161	151	148	149	141	134	124	118
24	177	175	168	162	165	158	148	145	147	140	133	122	117
26	172	170	166	159	160	156	145	142	145	138	132	120	115
28	168	165	164	157	157	152	143	140	144	136	131	118	114
30	160	160	162	156	155	148	141	137	140	134	130	116	112
32	153	156	159	154	152	145	138	134	138	132	128	114	110
34	147	149	153	151	150	142	135	132	135	130	125	112	108
36	141	143	144	141	141	137	132	129	130	129	122	110	105
38	135	136	136	133	133	129	128	126	122	121	118	108	102
40	130	129	128	126	125	122	122	120	115	114	111	105	100
42	124	122	121	119	118	115	116	113	109	108	105	102	98
44	117	115	115	113	112	109	109	107	103	102	99	97	95
46	110	108	110	107	106	103	104	102	98	97	94	92	93
48	104	102	103	102	101	98	99	97	93	92	89	87	88
50	98	97	97	97	96	94	94	92	88	87	85	83	83
52	93	91	92	91	90	89	88	87	84	83	81	79	79
54	88	87	87	86	86	84	84	83	80	79	77	75	75
56	84	82	83	82	81	80	79	78	76	75	73	72	72
58	79	78	78	78	77	75	75	74	73	72	70	68	69
60	76	74	75	74	73	72	71	71	69	69	67	65	65
64	69	67	68	67	66	65	64	64	63	63	61	60	60
68	63	61	62	61	60	59	58	58	57	56	55	55	54
72	57	56	56	56	55	53	53	52	51	51	50	49	49
76	53	51	52	51	50	49	48	48	46	46	45	45	44
80	49	47	48	47	46	45	44	43	42	42	41	40	40

Lifting capacity table in typical working conditions

Turntable counterweight 120t Car-body counterweight 0t SL counterweight 0~270t
 SLmast radius 13m SL counterweight radius 12~16m

Radius (m)	Main boom length (m)															
	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	123
8	500	500														
9	500	500	451	371												
10	500	500	451	371	335											
11	500	485	451	371	335	323	285									
12	500	480	451	371	335	323	285	258	239							
14	443	460	431	371	335	323	285	258	239	221	200					
16	373	395	378	371	335	323	285	258	239	221	200	185	168			
18	321	342	335	334	324	323	285	258	239	221	200	185	168	158	145	
20	280	298	293	300	300	299	277	258	239	221	200	185	168	158	145	141
22	247	263	259	270	271	270	267	244	239	221	200	185	168	158	145	141
24	220	235	230	240	245	244	241	231	226	221	200	185	168	158	145	141
26	198	211	207	216	223	222	219	217	214	211	195	185	168	158	145	141
28	178	191	187	195	203	202	200	199	196	194	191	178	168	158	136	141
30	161	173	170	178	185	185	183	182	181	178	176	173	168	157	133	141
34		144	142	149	155	157	156	155	154	152	152	149	147	134	132	140
38		121	120	127	132	136	134	134	133	131	130	129	128	125	123	123
42			102*	109	114	118	118	117	116	115	114	112	111	108	108	107
46				93	98	102	104	103	103	101	100	98	97	95	94	93
50					86	89	92	92	91	90	89	87	86	84	83	82
54					74	78	80	83	82	80	79	78	77	74	73	73
58						69	71	73	74	72	71	69	69	66	65	64
62							62	65	67	65	64	63	62	59	58	58
65							56	59	61	61	60	58	57	54	54	53
66								57	59	59	58	56	56	53	52	51
70								50	52	53	53	51	50	48	47	46
74									46	47	48	46	45	43	42	41
78										41	42	42	41	39	38	37
82											37	37	37	35	34	33
86												32	32	30	30	30
90													27	28	26	25
94														24	22	22

SL working condition wind power jib SHJ

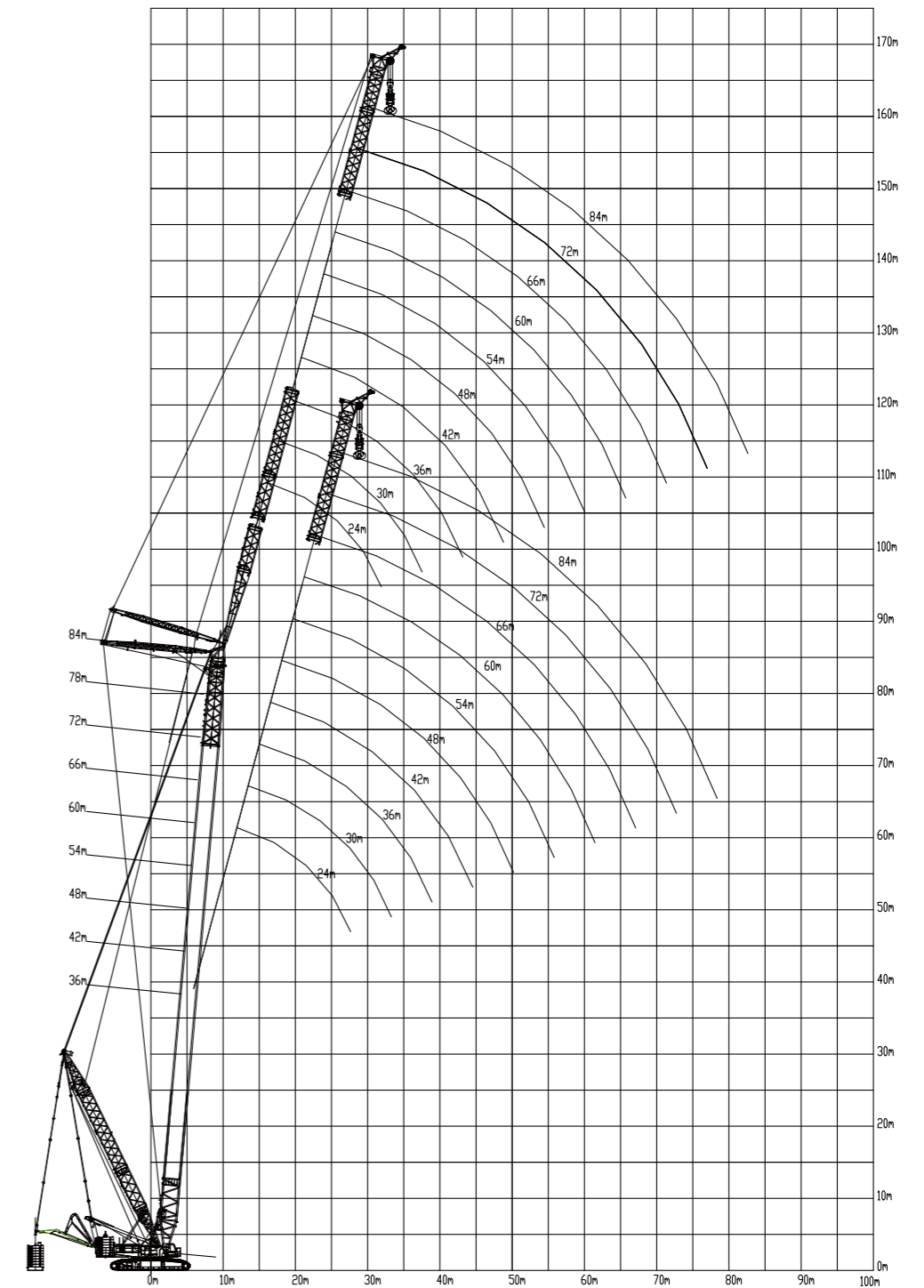


Lifting capacity table in typical working conditions

SL working condition wind power jib performance table (angle between main boom and jib 10°, jib 12m)
 160t turntable counterweight +0t car-body counterweight +0~190t SL counterweight, SL counterweight radius 16m

Radius (m)	Main boom length (m)												
	90	93	96	99	102	105	108	111	114	117	120	123	126
16	180	180	177										
17	180	180	177	170									
18	180	180	176	168	180	170	160	153					
19	180	180	175	167	175	166	160	152	150	142			
20	180	180	174	165	170	164	155	150	150	142	135	126	120
22	180	178	171	164	168	161	151	148	149	141	134	124	118
24	177	175	169	162	165	158	148	145	147	140	133	122	117
26	172	170	166	159	160	156	145	142	145	138	132	120	115
28	168	160	164	157	157	152	143	140	144	136	131	118	114
30	160	159	159	156	155	148	141	137	140	134	130	116	112
32	149	147	147	146	144	144	138	134	138	132	128	114	110
34	138	137	136	135	134	133	133	132	129	128	125	112	108
36	129	127	127	126	124	123	123	122	121	120	118	110	105
38	120	119	119	118	116	115	115	114	112	112	111	108	102
40	112	111	111	110	109	108	107	106	105	104	104	103	100
42	105	103	104	103	101	101	100	100	99	98	97	97	96
44	98	97	97	96	95	94	94	93	92	91	91	90	90
46	92	91	91	90	89	88	88	87	86	85	85	84	84
48	87	85	86	85	83	83	82	82	81	80	80	79	78
50	82	80	81	80	78	78	77	77	76	75	75	74	73
52	77	76	76	76	74	73	73	72	71	70	70	69	69
54	73	72	72	71	70	69	69	68	67	66	66	65	65
56	69	68	68	68	66	65	65	64	63	62	62	61	61
58	66	64	65	64	62	62	61	61	59	59	58	58	57
60	62	61	61	61	59	58	58	57	56	55	55	54	54
64	56	55	55	55	53	52	52	51	50	49	49	48	48
68	51	50	50	49	48	47	47	46	45	44	44	43	43
72	47	45	46	45	43	43	42	41	40	40	39	38	38
76	43	41	41	41	39	38	38	37	36	35	35	34	34
80	39	38	38	37	35	35	34	34	32	32	31	31	30

9. SL working condition tower jib SHW



Lifting capacity table in typical working conditions

Turntable counterweight 120t car-body counterweight 0t SL counterweight 0~270t
 SL mast radius 13m SL counterweight radius 12~16m main boom length 36m main boom angle 85°

Radius (m)	Jib length (m)										
	24	30	36	42	48	54	60	66	72	78	84
14	260										
15	260										
16	260	227									
17	260	227	187								
18	260	227	187								
19	253	223	187	156							
20	239	215	186	156	131						
22	212	197	175	151	129	109					
24	187	178	163	144	125	107	92				
26	164	161	151	136	120	104	90	77	66		
28	140	144	138	128	114	100	88	75	66	56	
30		129	126	119	108	97	85	74	65	55	48
32		115	115	110	102	92	82	72	63	54	47
34		102	104	102	96	88	79	70	62	53	47
36			94	94	90	84	76	68	61	52	46
38			85	86	84	79	73	65	59	51	45
40			77	79	78	74	70	63	57	50	44
42				72	72	70	66	61	55	49	43
44				66	67	66	63	58	53	47	42
46				60	62	61	59	55	52	46	41
48					57	57	56	53	50	44	40
50					53	53	53	50	48	43	39
52					48	50	49	48	45	42	38
54						46	46	45	43	40	37
56						43	44	43	41	38	36
58						40	41	41	40	37	34
60							38	38	38	35	33
64							33	34	34	32	31
68								30	30	30	28
72									27	27	26
76										24	24
80											22
84											20

Turntable counterweight 120t car-body counterweight 0t SL counterweight 0~270t
 SL mast radius 13m SL counterweight radius 12~16m main boom length 48m main boom angle 85°

Radius (m)	Jib length (m)										
	24	30	36	42	48	54	60	66	72	78	84
15	229										
16	232										
17	229	197									
18	219	192	164								
19	209	185	161								
20	198	179	157	135							
22	177	164	148	130	112						
24	158	150	138	123	109	94	82				
26	140	135	127	116	104	92	80	69			
28	124	122	117	109	99	88	78	68	60		
30	109	110	107	101	93	84	75	66	58	50	
32		98	97	94	88	80	73	64	57	50	44
34		88	88	86	82	76	70	62	56	49	43
36		79	80	79	76	72	67	60	54	47	42
38			73	73	71	68	63	58	53	46	41
40			66	67	66	63	60	55	51	45	40
42			59	61	61	59	57	53	49	44	39
44				56	56	55	53	50	47	42	38
46				51	52	52	50	48	45	41	37
48					48	48	47	45	43	39	36
50					44	45	44	43	41	38	35
52					41	41	41	40	39	36	34
54						38	39	38	37	35	32
56						36	36	36	35	33	31
58						33	34	34	33	32	30
60							31	32	31	30	29
64							27	28	28	27	26
68								24	25	24	24
72									22	22	21
76									19	20	19
80										17	17
84											16

Lifting capacity table in typical working conditions

Turntable counterweight 120t car-body counterweight 0t SL counterweight 0~270t
 SL mast radius 13m SL counterweight radius 12~16m main boom length 60m main boom angle 85°

Radius (m)	Jib length (m)										
	24	30	36	42	48	54	60	66	72	78	84
16	188*										
17	182*										
18	176*	155*									
19	169*	150*	132*								
20	161*	146*	129*								
22	147*	135*	122*	109*	95*						
24	132*	124*	115*	103*	92*	81*					
26	119*	113*	106*	98*	88*	78*	69*				
28	106*	103*	98*	92*	84*	76*	67*	59*			
30	95*	93*	90*	85*	79*	72*	65*	58*	51*	45*	
32		84*	83*	79*	74*	69*	63*	56*	50*	44*	39*
34		76*	75*	73*	70*	65*	60*	54*	49*	43*	38*
36		69*	69*	67*	65*	61*	57*	52*	47*	42*	37*
38			63*	62*	60*	58*	54*	50*	46*	41*	37*
40			57*	57*	56*	54*	51*	48*	44*	40*	36*
42			52*	52*	52*	50*	48*	45*	42*	38*	35*
44				48*	48*	47*	45*	43*	40*	37*	34*
46				44*	44*	44*	43*	41*	38*	35*	32*
48				40*	41*	41*	40*	38*	37*	34*	31*
50					38*	38*	37*	36*	35*	32*	30*
52					35*	35*	35*	34*	33*	31*	29*
54					32*	33*	33*	32*	31*	30*	28*
56						30*	30*	30*	29*	28*	27*
58						28*	28*	28*	28*	27*	25*
60						26*	26*	27*	26*	25*	24*
64							23*	23*	23*	23*	22*
68								20*	21*	20*	20*
72								18*	18*	18*	18*
76									16*	16*	16*

Turntable counterweight 120t car-body counterweight 0t SL counterweight 0~270t
 SL mast radius 13m SL counterweight radius 12~16m main boom length 72m main boom angle 85°

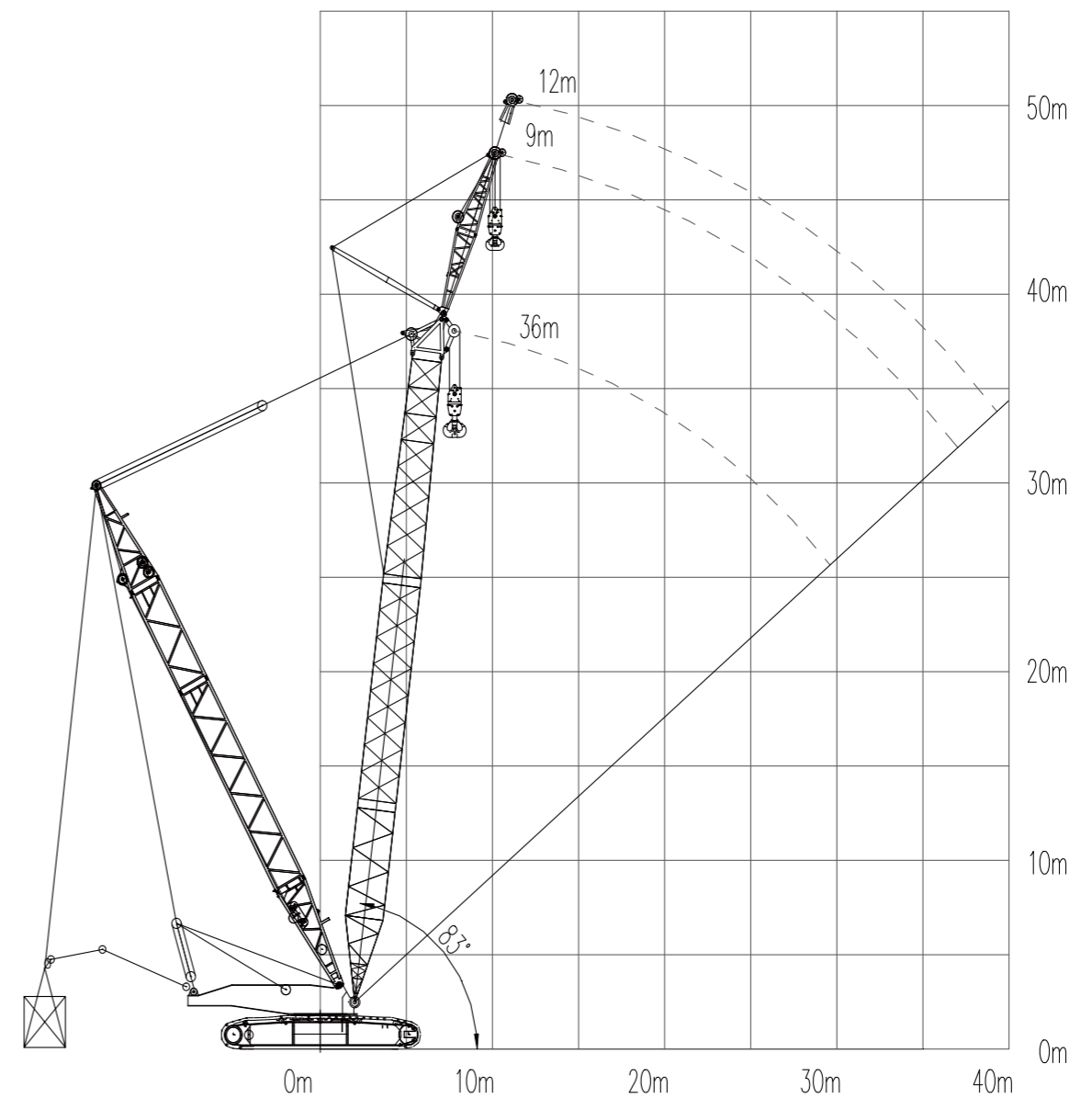
Radius (m)	Jib length (m)										
	24	30	36	42	48	54	60	66	72	78	84
17	178										
18	172										
19	166	148									
20	160	143	127								
22	146	134	121	107							
24	133	124	114	102	91						
26	120	114	106	97	87	78					
28	108	104	98	91	83	75	67	59			
30	97	94	90	85	79	72	65	58	51		
32	87	85	83	79	74	68	62	56	50	44	
34		77	76	73	69	65	60	54	49	43	38
36		70	69	68	65	61	57	52	47	42	37
38		63	63	62	60	57	54	50	46	41	37
40			58	57	56	54	51	47	44	39	36
42			52	53	52	50	48	45	42	38	35
44			48	48	48	47	45	43	40	37	33
46				44	44	44	42	40	38	35	32
48				41	41	41	40	38	36	34	31
50					38	38	37	36	34	32	30
52					35	35	35	34	33	31	29
54					32	32	32	32	31	29	27
56						30	30	30	29	28	26
58						28	28	28	27	26	25
60						26	26	26	26	25	24
64							23	23	23	22	21
68								20	20	20	19
72								17	18	18	17
76									15	16	15
80										14	14
84										12	12
88											11

Lifting capacity table in typical working conditions

Turntable counterweight 120t car-body counterweight 0t SL counterweight 0~270t
 SL mast radius 13m SL counterweight radius 12~16m main boom length 84m main boom angle 85°

Radius (m)	Jib length (m)										
	24	30	36	42	48	54	60	66	72	78	84
18	138*										
19	134*										
20	130*	116*									
22	121*	110*	99*								
24	111*	103*	94*	85*	76*						
26	102*	96*	89*	81*	73*	66*					
28	93*	88*	83*	77*	70*	64*	57*				
30	85*	81*	77*	72*	67*	61*	55*	49*			
32	77*	74*	71*	68*	63*	58*	53*	48*	43*	38*	
34		68*	66*	63*	59*	55*	51*	46*	42*	37*	33*
36		62*	61*	58*	56*	52*	49*	45*	41*	36*	32*
38		57*	56*	54*	52*	49*	46*	43*	39*	35*	32*
40			51*	50*	48*	46*	44*	41*	38*	34*	31*
42			47*	46*	45*	44*	41*	39*	36*	33*	30*
44			43*	43*	42*	41*	39*	37*	34*	32*	29*
46				39*	39*	38*	37*	35*	33*	30*	28*
48				36*	36*	36*	34*	33*	31*	29*	27*
50				34*	33*	33*	32*	31*	30*	28*	26*
52					31*	31*	30*	29*	28*	26*	25*
54					29*	29*	28*	28*	27*	25*	24*
56					27*	27*	26*	26*	25*	24*	22*
58						25*	25*	24*	24*	23*	21*
60						23*	23*	23*	22*	21*	20*
64							20*	20*	20*	19*	18*
68							17*	18*	17*	17*	16*
72								15*	15*	15*	15*
76									13*	13*	13*
80										12*	12*
84										10*	10*

SL working condition TBM jib SHF



Lifting capacity table in typical working conditions

Main boom length 36m Jib length 9m angle between main boom and jib 10°
 Turntable counterweight 160t car-body counterweight 40t SL counterweight 0~190t
 SL mast radius 13m SL counterweight radius 12~16m

Main hook radius	Main boom angle	Main hook load	Auxiliary hook radius	Auxiliary hook load	Combined lifting
8	82.63	500*	10.4	260	400
9	81.02	500*	11.6	260	393
10	79.39	500	12.9	260	385
11	77.76	490	14.2	260	377
12	76.11	456	15.4	260	369
13	74.45	420	16.7	260	362
14	72.77	383	18	255	338
15	71.07	352	19.2	251	311
16	69.36	325	20.5	242	288
17	67.62	301	21.7	230	267
18	65.86	280	23	213	247
19	64.07	261	24.3	198	230
20	62.25	243	25.5	185	215
22	58.51	212	28	162	189
24	54.59	187	30.5	144	167
26	50.46	166	33	128	149
28	46.04	148	35.5	114	134
30	41.23	132	38	102	120

Main boom length 36m Jib length 12m angle between boom and jib 10°
 Turntable counterweight 160t Car-body counterweight 40t SL counterweight 0~190t
 SL mast radius 13m SL counterweight radius 12~16m

Main hook radius	Main boom angle	Main hook load	Auxiliary hook radius	Auxiliary hook load	Combined lifting
8	82.63	500*	11.3	230	365
9	81.02	490*	12.6	230	355
10	79.39	485	14	230	346
11	77.76	486	15.3	230	338
12	76.11	434	16.6	226	330
13	74.45	405	18	214	323
14	72.77	369	19.3	203	316
15	71.07	338	20.7	193	296
16	69.36	311	22	184	274
17	67.62	288	23.3	176	254
18	65.86	267	24.7	169	236
19	64.07	248	26	162	219
20	62.25	231	27.3	156	205
22	58.51	201	30	145	180
24	54.59	176	32.7	133	160
26	50.46	155	35.3	118	142
28	46.04	136	37.9	106	128
30	41.23	125	40.6	95	115

Notes: the above performance and other information are for reference only, and the operating instructions shipped with the machine shall prevail.

Transport list and transport plan

49

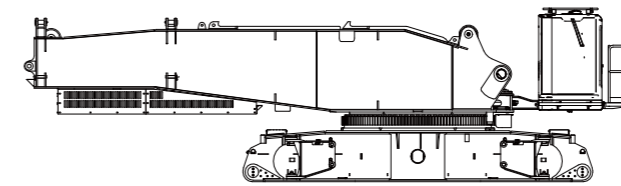
XGC500A CRAWLER CRANE

P50-P61 Transport list and transport plan

P62-P62 Supplied Tools

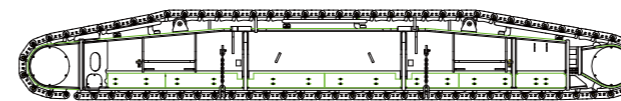
P63-P63 Supplied spare parts

P64-P64 Supplied Tools

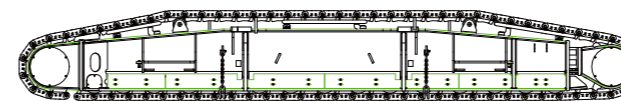


Basic machine	× 1
(L)/m	11.5m
(W)/m	3.45m
(H)/m	3.45m
(W)/t	55t

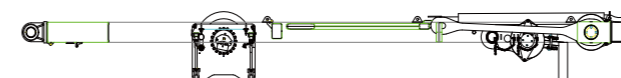
Include turntable and car-body (with 4 outrigger pads), cab and etc.



Left track frame	× 1
(L)/m	11m
(W)/m	1.41m
(H)/m	1.7m
(W)/t	35t



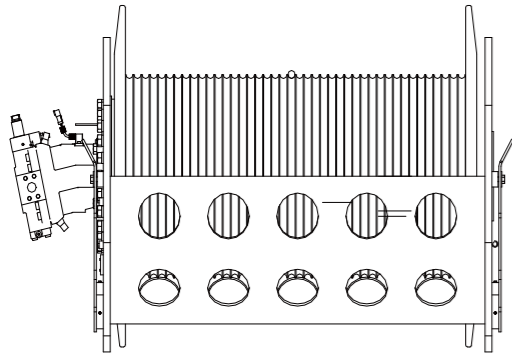
Right track frame	× 1
(L)/m	11m
(W)/m	1.41m
(H)/m	1.7m
(W)/t	35t



Mast assy.	× 1
(L)/m	11m
(W)/m	2.15m
(H)/m	1.17m
(W)/t	11.3t

Include mast, main luffing pulley block, main luffing winch and wire rope.

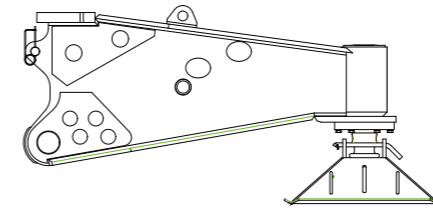
Transport list and transport plan



Hoist winch ×2

(L)/m	1.82m
(W)/m	1.20m
(H)/m	1.13m
(W)/t	5.5t

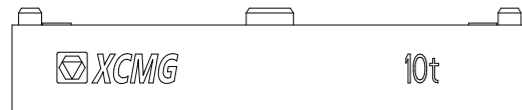
Include main and auxiliary hoist ropes.



Outrigger ×2

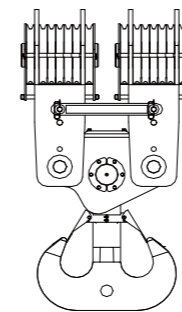
(L)/m	4.18m
(W)/m	0.98m
(H)/m	1.20m
(W)/t	2.6t

Include outrigger pads.



counterweight block ×34

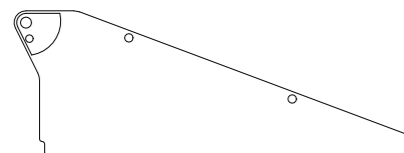
(L)/m	2.18m
(W)/m	1.95m
(H)/m	0.43m
(W)/t	10t



500t capacity hook block ×1

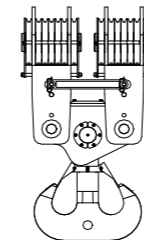
(L)/m	1.94m
(W)/m	0.95m
(H)/m	3.33m
(W)/t	7.4t

optional



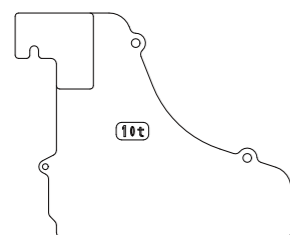
Car-body counterweight box ×2

(L)/m	2.35m
(W)/m	2.4m
(H)/m	0.85m
(W)/t	11.2t



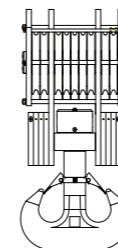
400t capacity hook block ×1

(L)/m	1.68m
(W)/m	0.95m
(H)/m	3.33m
(W)/t	6.65t



counterweight slab ×2

(L)/m	2.54m
(W)/m	2.52m
(H)/m	2.05m
(W)/t	10t

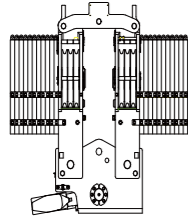


260t capacity hook block ×1

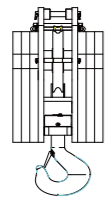
(L)/m	1.02m
(W)/m	0.87m
(H)/m	2.34m
(W)/t	3.94t

选配

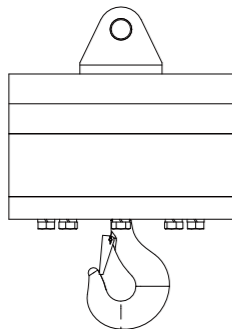
Transport list and transport plan



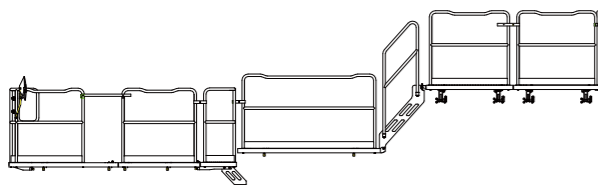
200吨吊钩	×1
(L)/m	2.5m
(W)/m	1.0m
(H)/m	2.3m
(W)/t	9.0t



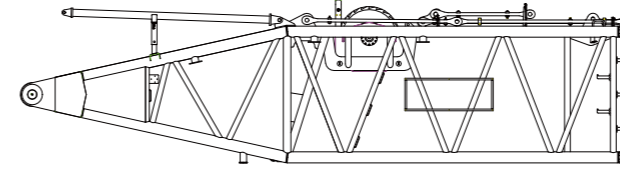
50t capacity hook block	×1
(L)/m	0.64m
(W)/m	0.76m
(H)/m	1.84m
(W)/t	2.43t
选配	



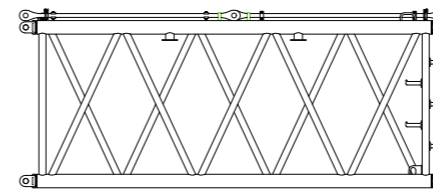
16t capacity hook block	×1
(L)/m	0.60m
(W)/m	0.60m
(H)/m	0.87m
(W)/t	0.88t
选配	



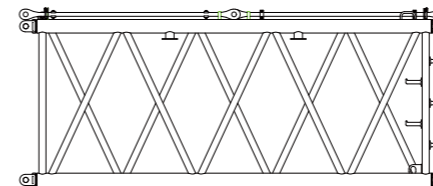
Catwalk	×1
(L)/m	
(W)/m	
(H)/m	
(W)/t	0.37t
Transport after disassembly	



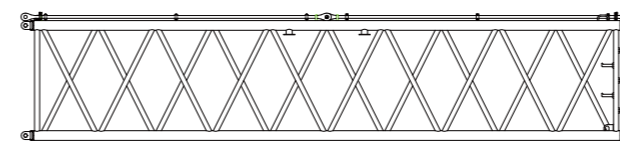
Boom butt assy.	×1
(L)/m	10.85m
(W)/m	3m
(H)/m	2.86m
(W)/t	15.6t
Including main boom backstop cylinder, the third winch and rope, and pendants together with boom	



3m heavy duty boom section	×1
(L)/m	6.22m
(W)/m	3m
(H)/m	2.58m
(W)/t	1.6t
Include pendant	

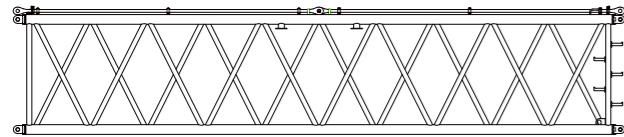


6m heavy boom insert	×2
(L)/m	6.22m
(W)/m	3m
(H)/m	2.58m
(W)/t	3.5t
Include pendant	

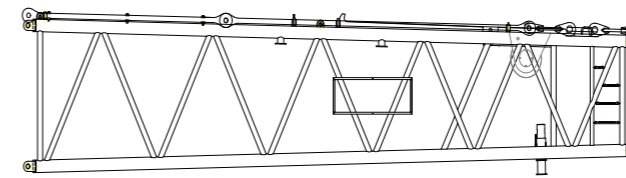


主臂12米加强节总成	×2
(L)/m	12.22m
(W)/m	3m
(H)/m	2.58m
(W)/t	6.1t
含拉板。	

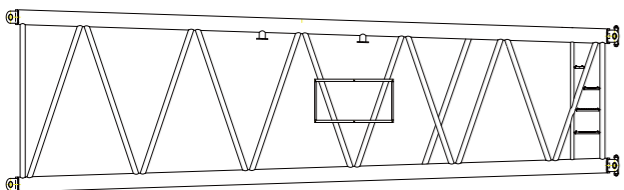
Transport list and transport plan



12m heavy boom insert	× 1
(L)/m	12.22m
(W)/m	3m
(H)/m	2.58m
(W)/t	5.8t
Include pendant	

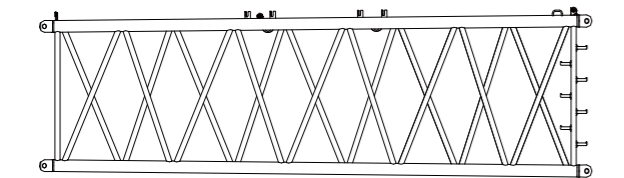


主臂12米过渡节总成	× 1
(L)/m	12.22m
(W)/m	3m
(H)/m	2.58m
(W)/t	6.7t
含拉板。	

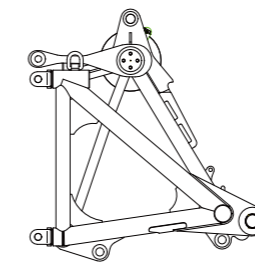


主臂12米轻型过渡节节总成	× 1
(L)/m	12.22m
(W)/m	3m
(H)/m	2.58m
(W)/t	3.9t
含拉板。	

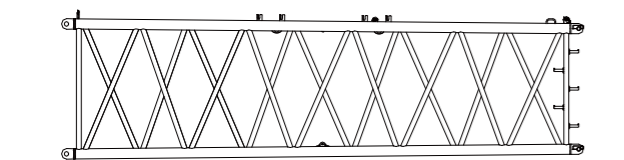
风电顶节臂	× 1
(L)/m	8.53m
(W)/m	2.45m
(H)/m	2.06m
(W)/t	4.1t
含拉板。	



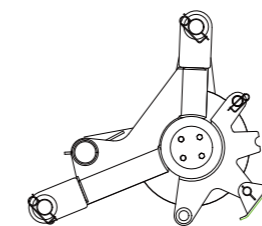
主臂12米大截面下过渡节总成	× 1
(L)/m	12.23m
(W)/m	3.72m
(H)/m	3.22m
(W)/t	7.4t



Boom head	× 1
(L)/m	2.57m
(W)/m	2.59m
(H)/m	2.72m
(W)/t	4.6t
Include pendant	

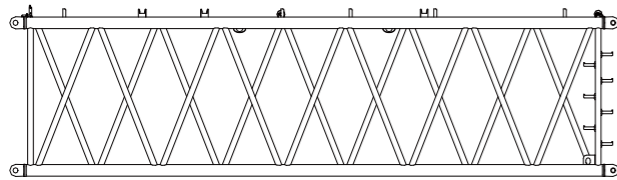


主臂12米大截面重型上过渡节总成	× 1
(L)/m	12.23m
(W)/m	3.72m
(H)/m	3.22m
(W)/t	7.1t

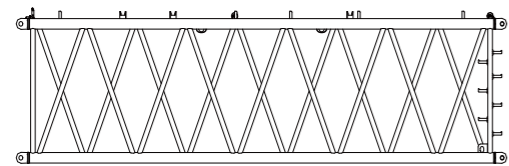


Boom sheave block	× 1
(L)/m	1.39m
(W)/m	1.67m
(H)/m	1.2m
(W)/t	1.8t

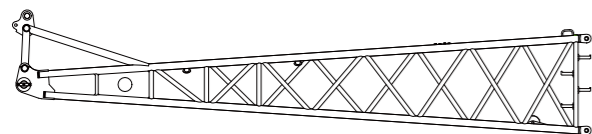
Transport list and transport plan



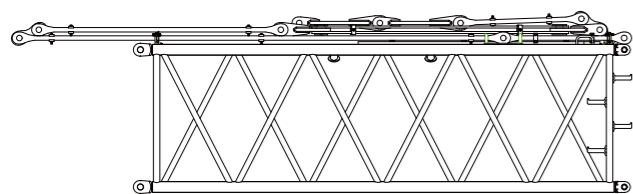
12m boom transition section (large-cross section)	×1
(L)/m	12.23m
(W)/m	3.72m
(H)/m	3.22m
(W)/t	8.5t



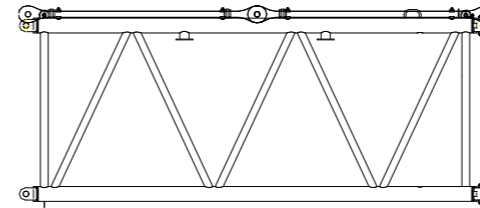
12m upper boom transition section (large-cross section)	×1
(L)/m	12.23m
(W)/m	3.72m
(H)/m	3.22m
(W)/t	7.5t



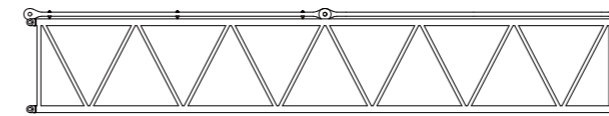
Tower jib butt assembly	×1
(L)/m	10.81m
(W)/m	2.53m
(H)/m	2.31m
(W)/t	4.5t



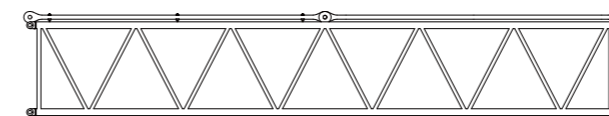
6m tower jib insert B	×1
(L)/m	7.68m
(W)/m	2.45m
(H)/m	2.25m
(W)/t	3.0t
Include pendant	



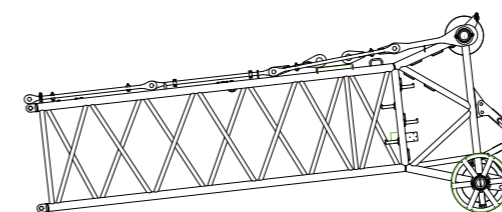
6m tower jib insert A	×2
(L)/m	6.16m
(W)/m	2.45m
(H)/m	2.14m
(W)/t	1.8t
Include pendant	



12m tower jib insert A	×1
(L)/m	12.16m
(W)/m	2.45m
(H)/m	2.01m
(W)/t	3.3t
Include pendant	

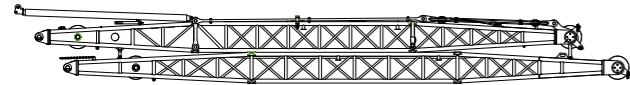


12m tower jib insert B	×3
(L)/m	12.16m
(W)/m	2.45m
(H)/m	2.01m
(W)/t	3.0t
Include pendant	

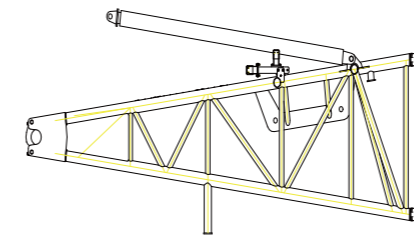


Tower jib top	×1
(L)/m	8.53m
(W)/m	2.45m
(H)/m	3.35m
(W)/t	4.7t
Include pendant	

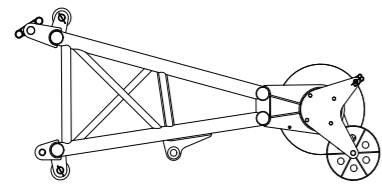
Transport list and transport plan



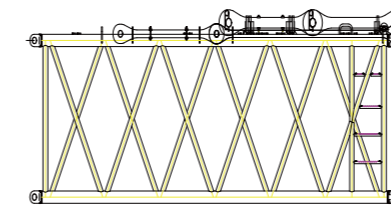
Tower jib front/rear struts	×1
(L)/m	16.75m
(W)/m	2.61m
(H)/m	2.06m
(W)/t	9.73t
Include pendant	



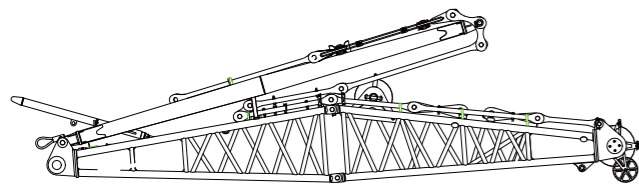
SL mast butt	×1
(L)/m	6.24m
(W)/m	2.9m
(H)/m	2.27m
(W)/t	8.56t
with SL luffing winch and wire rope, SL backstop cylinder	



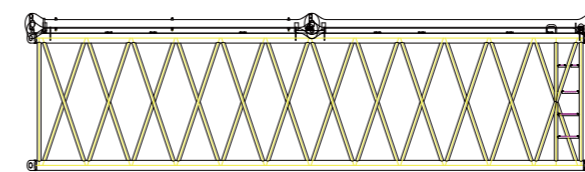
Single pulley	×1
(L)/m	3.33m
(W)/m	1.53m
(H)/m	1.25m
(W)/t	0.50t



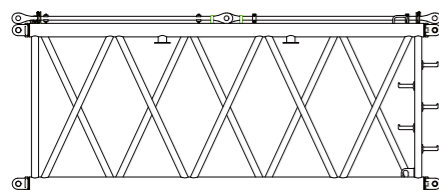
6m superlift mast insert	×1
(L)/m	6.24m
(W)/m	2.9m
(H)/m	2.05m
(W)/t	2.1t
含拉板。	



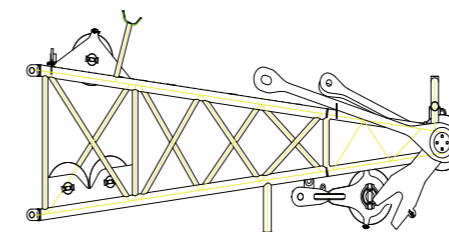
Fixed jib component	×1
(L)/m	10.12m
(W)/m	3m
(H)/m	2.78m
(W)/t	6.95t
Including jib top and butt sections, bracket, backstop bar, etc.	



12m superlift mast insert	×1
(L)/m	12.26m
(W)/m	2.9m
(H)/m	2.05m
(W)/t	4.1t
Include pendant	

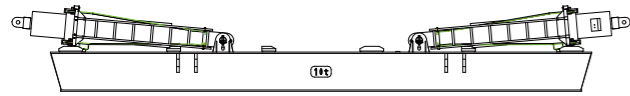


3m section assy.	×1
(L)/m	3.15m
(W)/m	1.64m
(H)/m	1.45m
(W)/t	0.85t
With pendant	

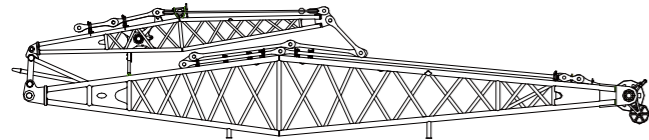


Superlift mast top	×1
(L)/m	6.5m
(W)/m	2.9m
(H)/m	2.7m
(W)/t	2.7t
Include pendant and pulley block	

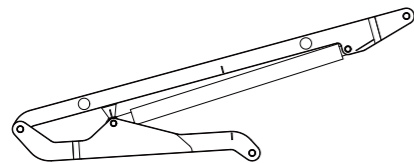
Transport list and transport plan



SL counterweight support	×1
(L)/m	9.15m
(W)/m	2.61m
(H)/m	1.27m
(W)/t	10t
With SL raising cylinder	



Wind power jib	×1
(L)/m	12.20m
(W)/m	3.32m
(H)/m	2.47m
(W)/t	5.73t



SL pushing device	×1
(L)/m	5.25m
(W)/m	3.02m
(H)/m	2m
(W)/t	2.57t
With pushing cylinder	

The whole vehicle (all the parts) weighs approx. 738t. The parts weight which are not listed above include some clips, small size pin shafts, bolts, several small pendants or sling connectors, and etc., total weight is not more than 3t.

Slight difference is ineluctable during product manufacture, and dimension and weight of some parts are variable due to continuous improvement in products.

Supplied Tools

No.	Code	Name	Qty.	Remark
1	175002540	WBW10-25000 pressed wire rope	1	
2	175002541	WBW10-58000 Pressed steel wire rope	1	
3	801500806	CQJ-16 Inflatable tool	1	For tower jib
4	819900454	AK-120 First aid kit	1	
5	819900607	Information lever bag	1	
6	819910776	T-DX2-3/8 shackle	4	
7	859932653	S-BW12-1 1/4 shackle	4	
8	819942294	S-DX25-1 3/4 shackle	2	
9	859981804	Pressed steel wire rope ZS0202φ40×13.6M	2	Crawler track self-disassembly
10	819948519	ORC-III Aluminum alloy ladder	1	
11	170400648	Guy cable store box (1.6*1.48*0.9)	1	
12	801970835	Dry powder fire extinguisher -6Kg	1	
13	819954753	Tool box	1	
14	803743517	stress releaser for steel wire rope of main hoisting winch	2	
15	176700618	Power trolley assembly	1	
16	171900562	Tool box assy.	1	
17	840700012	10T×8M Flat belt	2	
18	175704416	QUY750.16.13A Boom pin-pulling cylinder	1	
19	175404173	XGC650K.96.6 boom connecting outrigger	2	

Supplied spare parts

No.	Code	Name	Qty.
1	803678218	DT04-4P Four core plug	5
2	803700642	40A MIDI FUSE	1
3	803678219	DT06-4S Four core socket	5
4	803700643	MIDI FUSE 50A	1
5	800104060	C 27 1050 Air cleaner main element	1
6	803678230	W4P Four core plug lock	5
7	803678231	W4S Four core socket lock	5
8	803689941	1616-21-10A Circuit breaker 10A	1
9	803689693	1616-21-20A Circuit breaker 20A	1
10	803689942	1616-21-15A Circuit breaker 15A	1
11	803689943	1616-21-25A Circuit breaker 25A	1
12	170000003	Clip 5-50	2
13	170000004	Clip 6-70	8
14	803678238	1060-16-0122 (Deutsch,13A,0.75-2mm2) Male pin	40
15	803678239	1062-16-0122 (Deutsch,13A,0.75-2mm2) Female pin	40
16	803600449	H1.5/14 Tubular pre insulated terminal	50
17	803700641	30A MIDI FUSE	1
18	803161924	JX-800×80 Oil absorption filter element	2
19	803161819	QXF-5 Inflation check valve	2
20	803678215	DT06-2S (Deutsch) Two core socket	10
21	803400188	41390-4 Hand pressure grease charger (Nanjing Becker)	1
22	803678214	DT04-2P (Deutsch) Two core plug	10
23	800141322	Fuel fine filter element (for WP12.480N and WP12.460N)	1
24	800141109	Fuel fine filter element (for WP12.480 and WP12.460N)	1
25	800141108	Oil filter (WP12.480 and WP12.460N)	2
26	803678227	W2S (Deutsch) Two core socket lock	10
27	803678226	W2P (Deutsch) Two core plug lock	10
28	803079383	YLXA-152 Xinxiang Dongfeng oil return filter element	2
29	174002877	XGC400K.99.3 Flange seal package	1
30	174002876	XGC400K.99.2 ED Sealing package	1
31	803603008	HFV4/024-1Z-1-S-G-D1 relay	5
32	174002875	XGC400K.99.1 O-ring seal package	1
33	175000295	XGC500K.90.2-13 pin shaft	1
34	800141110	1000424916 filter element	1

Supplied Tools

No.	Name	Qty.	Packing	Remark
1	XGC500A crawler crane	1	Nude packing	Refill 20L fuel to the tank
2	XGC500A Crawler Crane Product Certificate	1		
3	XGC500A Crawler Crane Operation Manual	1		Include load charts
4	XGC500ACrawler Crane Parts Catalogue	1		
5	XGC500A Crawler Crane Maintenance Manual	1		
6	Engine Operation Instructions	1		
7	XGC500A LMI Operation Instructions	1		
8	Air Conditioner Operation Instructions	1		
9	Supplied tools list	1		
10	Supplied tools	1		
11	Supplied spare parts list	1		
12	Supplied spare parts	1		