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XLC130

CRAWLER CRANE  
履带起重机



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



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# 02

## XLC130 Crawler Crane

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## Product overview

### 1. Boom combinations

XLC130 crawler crane boom and jib sections are the chord and lacing member of large cross-section, thick-walled large diameter, high-strength seamless steel pipes, supplemented by high-strength steel welded into the middle of sub-section, tapered cross-section at both ends of the four chord space lattice structure.

Under full working conditions, boom and jib compositions: boom butt 1×9m, boom transition section 1×6m, boom top section 1×5m, jib (tower jib) 1×5m, jib (tower) jib transition section 1×5m, jib (tower jib) top section 1×3m, front strut 1×5.5m, rear strut 1×5.5m, boom single pulley, 3m insert section (1×3mA, 1×3mB and 1×3mC), 6m insert section (1×6mA, 2×6mB and 1×6mC), 12m insert section (2×12mA and 1×12mB).

Under main boom working condition, the Max. lifting load is 130t@5m (12 parts of line), the Max. lifting moment is 123.7t×6m= 742.2t.m. Main boom length is 20m~74m, boom composition: boom butt 1×9m, transition section 1×6m, top section: 1×5m, insert section 1×3mA and 1×3mB, insert section 1×6mA and 1×6mB, insert section 2×12mA and 1×12mB. Boom can be equipped with boom single pulley. Under fixed jib working condition, the Max. lifting load is 45t@10m (4 parts of line). Fixed jib length is 13m~31m, jib composition: jib butt 1×5m, jib transition section 1×5m, jib top 1×3m, insert section 1×3mB and 1×3mC, insert section 1×6mB and 1×6mC, strut 1×5.5m. Under tower jib working condition, the Max. lifting load is 45t@11m (4 parts of line), tower jib length is 22m~49m, boom composition: boom butt 1×5m, transition section 1×5m, tower jib top section 1×3m, insert section 1×3mB and 1×3mC, insert section 2×6mB and 1×6mC, insert section 1×12mB, front strut 1×5.5m, rear strut 1×5.5m. tower jib can be equipped with tower jib single pulley.

### 2. Boom luffing components

Boom luffing component is made of high-strength pendant structure with high safety factor. Pendant transition with balance beam can efficiently bear the load of two-group pendant for equal force distribution. Single pendant with “Peach”-shaped connection holes, easy assembly, saving labor and high efficient.

### 3. Mast

Mast is a box-type two-limb structure, with strengthened beam between two limbs for good stability. Mast lifting cylinder can rotate around the cylinder center and turntable connection pivot, to realize mast erection raising and lowering.

### 4. Turntable

Turntable is a key load bearing structural component to connect crane superstructure and crane undercarriage, use of high-strength steel plate welded in “工” box-type composite box beam structure on both sides, through the slewing ring coupled with undercarriage, with good overall strength and stability. Cab, main hoisting, main luffing winch, engine system, main pump, hydraulic valve, cabinet, mast, boom base section, superstructure counterweight and self-assembly/disassembly jacking cylinder (optional) can be respectively connected with different parts of the turntable.

### 5. Mechanism composition

Crane mechanism configuration:

Main hoist winch	For main boom, main boom with single pulley, fixed jib (with double hook), tower jib (optional), tower jib with jib single pulley (optional) working conditions, used as main hook winch.	Turntable front part
Auxiliary hoist winch	Main boom with boom single pulley and fixed jib (with double hook), tower jib (with single pulley) working conditions, used as auxiliary winch.	Boom butt close to the lower part
Tower jib luffing winch (optional)	Tower jib (optional), tower jib with jib single pulley working condition (optional), used as tower jib luffing winch.	Boom butt close to the upper part
Main luffing winch	Boom luffing	Turntable middle side
Slewing unit	Superstructure slewing	Turntable front side
Travel unit	Overall crane travelling	Crawler track drive roller

### 6. Hoisting winch

Hoist winch includes main hoist winch, auxiliary hoist winch, hoist winch consists of planetary reducer driven by variable motor, through drum, guide pulley and hoist pulley block to achieve main or auxiliary hook block hoisting up/down.

The planetary reducer is built in the hoisting mechanism, and the normally closed brake is adopted to realize the function of “spring brake / hydraulic release”, which is safe and reliable. The hoist drum is made of ductile iron with double line multilayer winding, with good vibration absorption, to ensure rope rotation-resistance for multilayer rope winding, effectively increasing the wire rope service life.

The hoisting mechanism uses independent steel core, high breaking force, high extrusion resistance of anti-rotation special steel wire rope, rated single rope. Tensile force 13.5t, wire rope diameter  $\phi$ 26mm, the length of main, auxiliary and single pulley lifting ropes are 320m, 250m respectively.

### 7. Luffing mechanism

The luffing mechanism includes main luffing mechanism and tower jib luffing mechanism (optional). The main luffing mechanism is independently driven by the double drum and is installed in the middle of the turntable through the pin shaft.

The main luffing mechanism is a planetary gear reducer driven by a motor, and the luffing of the main boom is realized through the drum and the luffing pulley block. The main luffing mechanism is equipped with a planetary reducer and a normally closed brake to realize the function of “spring braking / hydraulic release”, which is safe and reliable.

The luffing drum has a ratchet lock device in which the pawl is driven

by hydraulic cylinder to realize multiple protection.

The main luffing drum is made of ductile iron with double line multilayer winding, with good vibration absorption, to ensure rope rotation-resistance for multilayer rope winding, effectively increasing the wire rope service life.

The main luffing mechanism uses steel wire rope with independent steel core and high breaking force, the rated single line pull is 10.0t, and the diameter of steel wire rope  $\phi$  22mm, 235m in length.

The tower jib luffing mechanism (optional) is installed at the bottom section of the main boom, with a ratchet-locking device, and the pawl is driven by the hydraulic oil cylinder to realize multiple locking protection. The steel wire rope with independent steel core and high breaking force is adopted, with the rated single rope tension of 7.0t and the diameter of the steel wire rope  $\phi$  20mm, 210m long.

### 8. Slewing Mechanism

The slewing mechanism and slewing bearing is outer meshed driven, it is placed in the front of the inner side of turntable, it is the motor drive the planetary gear reducer and slewing bearing to realize 360° slewing.

There is a planetary reducer inside the slewing mechanism which adopted constant closed brake to realize “spring brake/hydraulic release” function, it is reliable and safe.

Slewing mechanism is set with slewing lock device to realize the locking protection to slewing mechanism. The slewing mechanism has free sliding function.

### 9. Slewing bearing

Elliptical raceway double row ball slewing ring is adopted, which has high strength, large bearing torque, high precision, long service life and convenient maintenance.

### 10. Cylinder assembly

The connection of boom and turntable, car-body and crawler track, counterweight tray and turntable, are all power-pin connected driven by cylinder. The mast raising cylinder, outrigger cylinder, crawler track tightening cylinder make the assembly and dismantling more convenient; the cab cylinder helps vertical turning-over and horizontal turning-over of cab.

### 11. Operator's cab

The new generation of 1.25m wide super large cab, fully bright design, gorgeous appearance, wide field of vision, comfortable and convenient operation.

### 12. Car-body

The car-body is a box-type radial structure, which is welded by high-strength steel plate, and has good overall rigidity and high strength.

### 13. Crawler track travel device

There are two crawler tracks, each of the two is composed of track beam, track shoe, bearing roller, a driving roller, a guiding roller, an upper roller, and a tensioning device.

Crawler track: Symmetrically placed both at left side and at right side, and with one at each side. The box-type structure welded by high-strength steel plate, the parallel iron is set at the connection position between track and car-body for guiding and wear-resistance.

Drive roller: High-strength wear-resistant alloy steel, connected to the planetary reducer housing with high-strength bolts.

Bearing roller: High-strength wear-resistant alloy steel with double flange design, built-in floating seal and self-lubricating.

Tensioning roller: adjust the tension of the track through the oil cylinder and adjusting pad.

The upper roller: high-strength wear-resistant alloy steel, built-in floating seal o, self-lubricating.

Track shoes: high-strength wear-resistant alloy steel.

Travel mechanism: constantly closed planetary gear reducer with strong driving power and high flexibility and maneuverability. Multi-plate wet constantly closed brake, spring brake, hydraulic release.

## Product overview

### 14. Hydraulic system

Load-sensitive LUDV system with hydraulic pilot proportional control, precise speed, sensitive operation and fine movement. The main valve can realize combined operations of multiple operations, compact structure and convenient maintenance.

Special rotary closed system design, smooth start and stop, good fine-motion, good proportional characteristics, strong anti-load-change interference ability, meet the requirements of fine lifting operation.

### 15. Electrical system

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

The composition of the electrical system: conventional electrical system and PLC control system.

Conventional electrical system includes power supplies, start controls, cab air conditioning and audio, lighting, wipers, and more.

The PLC control system includes the control of main and auxiliary winches, slewing, main boom luffing, engine condition monitoring, and all actions that are controlled by PLC logic of CAN-bus bus technology.

### 16. Engine system

Model: Shanghai diesel SC9DF330G3

Type: in-line, six-cylinder, water-cooled, supercharged intercooled, four-stroke diesel engine

Environmental protection: in line with national III standard and European III emission standard.

Rated power: 243kw/2000rpm;

Max. output torque: 1425N.m;

Fuel oil tank: 600L.

### 17. Counterweight

Counterweight is composed of car-body counterweight and turntable counterweight.

Car-body counterweight is 12t totally, car-body counterweight can realize self-assembly/dismantling by using mast crane, car-body counterweight is installed at the front side and rear side of crawler tracks. Its composition is: car-body counterweight 2×6t.

There are 3 kinds of turntable counterweight to choose: 48t, 38t and 28t. For different lifting needs, in the design, independent performance tables are provided according to the grading counterweight, which makes the working conditions of customers more practical, economi

cal, convenient and fast. In addition, according to the best number of counterweights in use conditions, it can also save more transportation costs and purchase costs for customers.

Turntable counterweight is installed at the rear side of turntable. Available counterweight composition is as the following:

(1)Turntable counterweight 48t: counterweight tray 1×15t, turntable counterweight block 4×5t; turntable counterweight block 2×6.5t;

(2)Turntable counterweight 38t: counterweight tray 1×15t, turntable counterweight block 2×5t; turntable counterweight block 2×6.5t;

(3)Turntable counterweight 28t: counterweight tray 1×15t, turntable counterweight block 2×6.5t;

### 18. Hook

Hook block configuration is as the following:

Hook Name	80T	13.5T	100T(optional)	32T(optional)
Weight (t)	0.96	0.5	1.67	0.7
Quantity	1	1	1	1
Pulley blocks	3	0	5	2

Notes:

1) If the hook configuration marked with optional words in the table is required, the agreed terms shall be indicated in the contract;

2) If there are special requirements other than the hooks listed in the above table, be sure to contact our company for confirmation to ensure that the selected hooks can be used normally.

## Safety protection measures

The crane uses a variety of mechanical, electronic and hydraulic safety and alarm devices to ensure the safe use. Safety devices include load moment limiter, slewing locking device, boom backstop device, lifting height limit device, boom angle limit device, anemometer, level gauge, camera, slewing warning, travel warning, hydraulic system relief valve, balance valve, hydraulic locks, etc.

### 1. Mode switch

In the installation mode, the over-reeving protection device, the boom limit device, the load moment limiter, etc. do not work, so as to facilitate the installation of the crane; in the working mode, all the safety devices work.

### 2. Emergency stop

With emergency stop function, it can quickly stop all actions in an emergency

### 3. Mis-operation protection

The handle has mis-operation protection function, and a safety protection switch is arranged on the front side of the handle. When the switch is not pressed, all the action signals are shielded, and the handle does not work to prevent mis-operation.

### 4. Over reeving protection

There is an over-reeving protection device on the boom head to prevent rope from over-reeved. When it come to a certain height, the over-reeving indicator is light, meanwhile hoisting movement stops automatically.

### 5. Over-releasing protection

For each hoisting mechanism, there is a rope end limiter to prevent the rope from over released. When the rope is only 3 loops remained, the over-released indicator is light, meanwhile, the lowering movement automatically stops.

### 6. Ratchet lock

There is a ratchet lock device used for luffing winch locking to guarantee the safe placing of boom while non-working.

### 7. Slewing lock

The slewing and locking of superstructure when crane stops.

### 8. Backstop function

There are backstop devices on main boom and auxiliary jib to prevent boom and struts from backstop.

### 9. Boom angle limitation

When the boom is hoisted up to specified angle, the hoisting movement stops, and the load moment limiter and stroke switch provides a dual control. When boom angle is smaller than the specified angle, the lowering movement stops, it is controlled by the load moment sound warning is sent out.

### 10. Hook latch protection

Hook latch is installed to prevent the sling from slipping out from the hook.

### 11. Hydraulic system protection

Equipped with hydraulic balance valve, hydraulic relief valve and other devices to ensure the stability and safety of the system.

### 12. Load moment limiter

Detection function: the LML can automatically detect the angle and load of the boom.

Display function: color large screen touch LCD (10.4 inches). The lifting operation parameters such as load moment percentage, actual lifting capacity, rated lifting capacity, working radius, boom length, angle, maximum lifting height, working condition code, parts of line, limiting angle and information code are displayed in Chinese (or English) and graphics.

Warning function: it has complete pre alarm and overload stop function. If it is detected that the actual load exceeds the limit load and the boom exceeds the limit angle, the load moment limiter will give an alarm and limit the current action.

The system has the function of fault self diagnosis.

## Safety protection measures

### 13. Audio/video warning

There are triple-color warning light and audio/video alarm provide warning to the driver and other personnel outside the cab.

### 14. Illuminating light

Illuminating lights are placed in front of the turntable, above the cab and in the cab to provide illumination.

### 15. Rearview mirror

Located outside cab, it is convenient for the driver to observe the situation behind the crane.

### 16. Height indicating light

The height indicating light is installed on the top of the boom for high altitude warning.

### 17. Wind instrument

The current wind speed is detected in real time and transmitted to the monitor in the cab to alert the operator to the safety of the wind load.

### 18. Level gauge

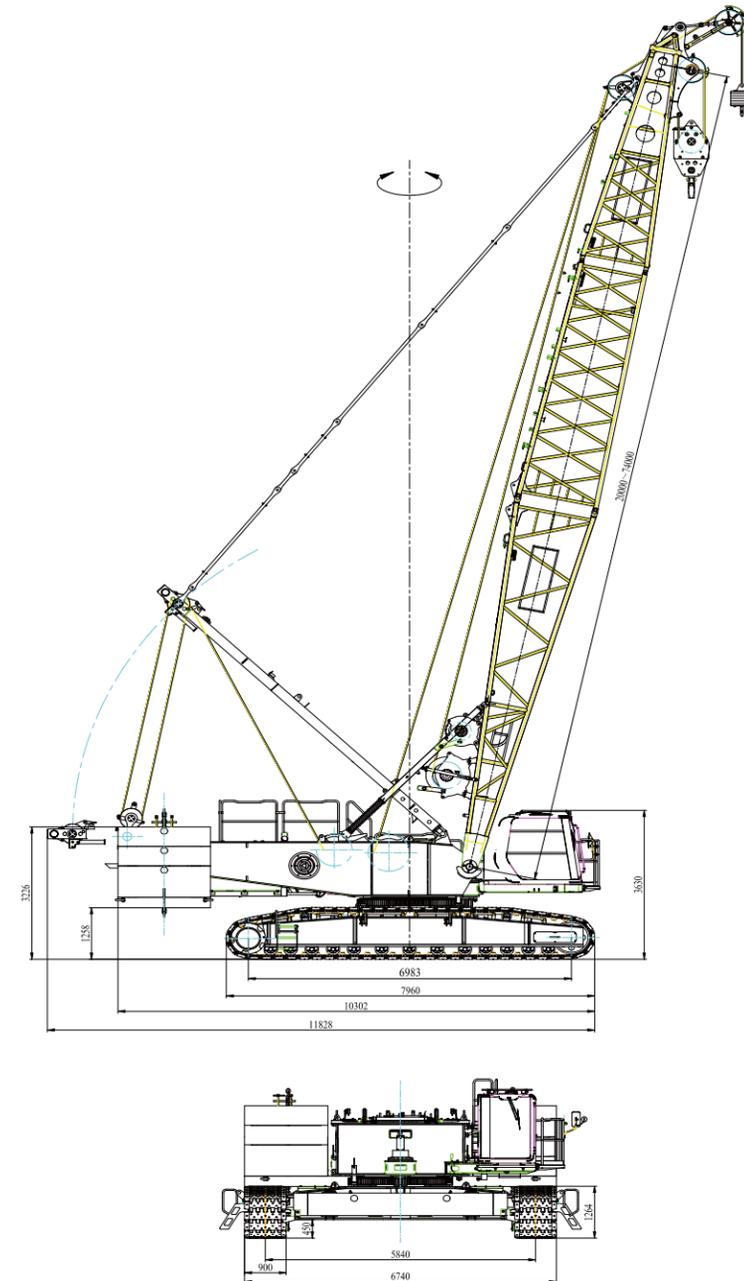
It is Equipped with electronic (optional) and mechanical level gauges that show the degree of inclination of the road surface used and provides the operator levelness of crane for reference.

### 19. Monitoring system (optional)

It is composed of three cameras and a monitor, which can monitor the rope arrangement of main winch, auxiliary winch and luffing winch and the safety situation of the rear of the car body.

## Main parameters

### 1. Outline dimension



XLC130 crawler crane outline dimension

2. Main technical parameters

	Items	Unit	Data
Max. rated lifting load	Main boom working condition	t	130
	Boom single pulley working condition	t	13.5
	Fixed jib working condition	t	45
	Tower jib working condition (optional)	t	45
Max. lifting moment		t.m	742.2
Size dimension	Boom length	m	20~74
	Fixed jib length (optional)	m	13~31
	Main boom length under fixed jib working condition	m	20~53
	The max. combination of main boom +fixed jib	m	47+31/50+28
	Tower jib length (optional)	m	22~49
	Main boom length under tower jib working condition	m	20~50
	The max. combination of main boom +tower jib	m	47+49
Speed parameters	Max. single line speed of hoisting	m/min	120
	Max. single line speed of boom luffing	m/min	60
	Max. single line speed of tower jib luffing	m/min	75
	Max. slewing speed	rpm	1.1
	Max. travel speed	km/h	1.5
Engine	Rated power	kW	241
	Emission standard	-	National III off-road
Overall crane weight (20m basic boom, 100t hook, 38t turntable counterweight, 12t car-body counterweight)		t	121
Average ground pressure		MPa	0.094
Grade-ability		-	30%
Max. transport weight of single unit		t	33.7
Max. transport size of single unit (L×W×H)		m	11.0×3.0×3.2

Notes:

1. The wire rope speed refers to the calculated value of the outermost working layer of the drum when the engine is running without load, which will vary according to the load and operating conditions.
2. Travel speed, grade ability, average ground pressure and turning speed are calculated theoretical value based on the plane, smooth and solid ground.
3. The table values are the configuration parameters based on 48t turntable counterweight and 12t car-body counterweight except values with “\*”.
4. We reserves the right to update and change the technical parameters without prior notice.



# XLC130 Crawler Crane

P11-P61 Typical working conditions

P62-P67 Parameters of main transporting components

## Typical working conditions

### 1. Main boom working condition

A. Boom sections combinations table without boom head single pulley									
Name and Qty.	Boom butt 9m	Boom insert 3mA	Boom insert 6mA	Boom insert 12mA	Boom transition section 6m	Boom insert 3mB	Boom insert 6mB	Boom insert 12mB	Boom top section 5m
HB20	1	0	0	0	1	0	0	0	1
HB23	1	1	0	0	1	0	0	0	1
HB26	1	0	1	0	1	0	0	0	1
HB29	1	1	1	0	1	0	0	0	1
HB32	1	0	0	1	1	0	0	0	1
HB35	1	1	0	1	1	0	0	0	1
HB38	1	0	1	1	1	0	0	0	1
HB41	1	1	1	1	1	0	0	0	1
HB44	1	0	0	2	1	0	0	0	1
HB47	1	1	0	2	1	0	0	0	1
HB50	1	0	1	2	1	0	0	0	1
HB53	1	1	1	2	1	0	0	0	1
HB56	1	0	0	2	1	0	0	1	1
HB59	1	1	0	2	1	0	0	1	1
HB62	1	0	1	2	1	0	0	1	1
HB65	1	1	1	2	1	0	0	1	1
*HB68	1	1	1	2	1	1	0	1	1
*HB71	1	1	1	2	1	0	1	1	1
*HB74	1	1	1	2	1	1	1	1	1

Notes:

- Center hitch must be used for main boom combinations with “\*” mark.
- Tower jib rear pendants must be removed for boom sections; the tower /fixed jib guide pulley must be removed from boom transition section.

B. Boom sections combinations with boom single pulley									
Name and Qty.	Boom butt 9m	Boom insert 3mA	Boom insert 6mA	Boom insert 12mA	Boom transition section 6m	Boom insert 3mB	Boom insert 6mB	Boom insert 12mB	Boom top section 5m
HBS20	1	0	0	0	1	0	0	0	1
HBS23	1	1	0	0	1	0	0	0	1
HBS26	1	0	1	0	1	0	0	0	1
HBS29	1	1	1	0	1	0	0	0	1
HBS32	1	0	0	1	1	0	0	0	1
HBS35	1	1	0	1	1	0	0	0	1
HBS38	1	0	1	1	1	0	0	0	1
HBS41	1	1	1	1	1	0	0	0	1
HBS44	1	0	0	2	1	0	0	0	1
HBS47	1	1	0	2	1	0	0	0	1
HBS50	1	0	1	2	1	0	0	0	1
HBS53	1	1	1	2	1	0	0	0	1
HBS56	1	0	0	2	1	0	0	1	1
HBS59	1	1	0	2	1	0	0	1	1
HBS62	1	0	1	2	1	0	0	1	1
HBS65	1	1	1	2	1	0	0	1	1
*HBS68	1	1	1	2	1	1	0	1	1
*HBS71	1	1	1	2	1	0	1	1	1
*HBS74	1	1	1	2	1	1	1	1	1

Notes:

- Center hitch must be used for main boom combinations with “\*” mark.
- Tower jib rear pendants must be removed for boom sections; the tower /fixed jib guide pulley must be removed from boom transition section.

Typical working conditions

C.Boom raising table under main boom working condition			
Boom raising table under main boom working condition without boom single pulley (HB/1)			
HB/1	Counterweight combination: Turntable Counterweight(t)+Car-body Counterweight(t)		
Boom combination	48+12	38+12	28+12
HB20	●	●	●
HB23	●	●	●
HB26	●	●	●
HB29	●	●	●
HB32	●	●	●
HB35	●	●	●
HB38	●	●	●
HB41	●	●	●
HB44	●	●	●
HB47	●	●	●
HB50	●	●	●
HB53	●	●	●
HB56	●	●	●
HB59	●	●	●
HB62	●	●	●
HB65	●	●	×
*HB68	●	●	×
*HB71	●	×	×
*HB74	●	×	×

Notes:

1. “◎” - boom can be raised; “●” -- wedge required to raise boom; “×” - boom cannot be raised, this working condition cannot be used.
2. Center hitch must be used for main boom combinations with “\*” mark.
3. When boom raising, place crawler drive roller at the rear of the crane.
4. When boom length is  $\geq 60\text{m}$  and main boom angle must be  $\geq 30^\circ$ , the hook can be lifted off the ground.

Boom raising table under main boom working condition with boom single pulley (HBS/1 & HBS/2)			
HBS/1 & HBS/2	Counterweight combination: Turntable Counterweight(t)+Car-body Counterweight(t)		
Boom combination	48+12	38+12	28+12
HB20	●	●	●
HB23	●	●	●
HB26	●	●	●
HB29	●	●	●
HB32	●	●	●
HB35	●	●	●
HB38	●	●	●
HB41	●	●	●
HB44	●	●	●
HB47	●	●	●
HB50	●	●	●
HB53	●	●	●
HB56	●	●	●
HB59	●	●	●
HB62	●	●	×
HB65	●	●	×
*HB68	●	×	×
*HB71	●	×	×
*HB74	×	×	×

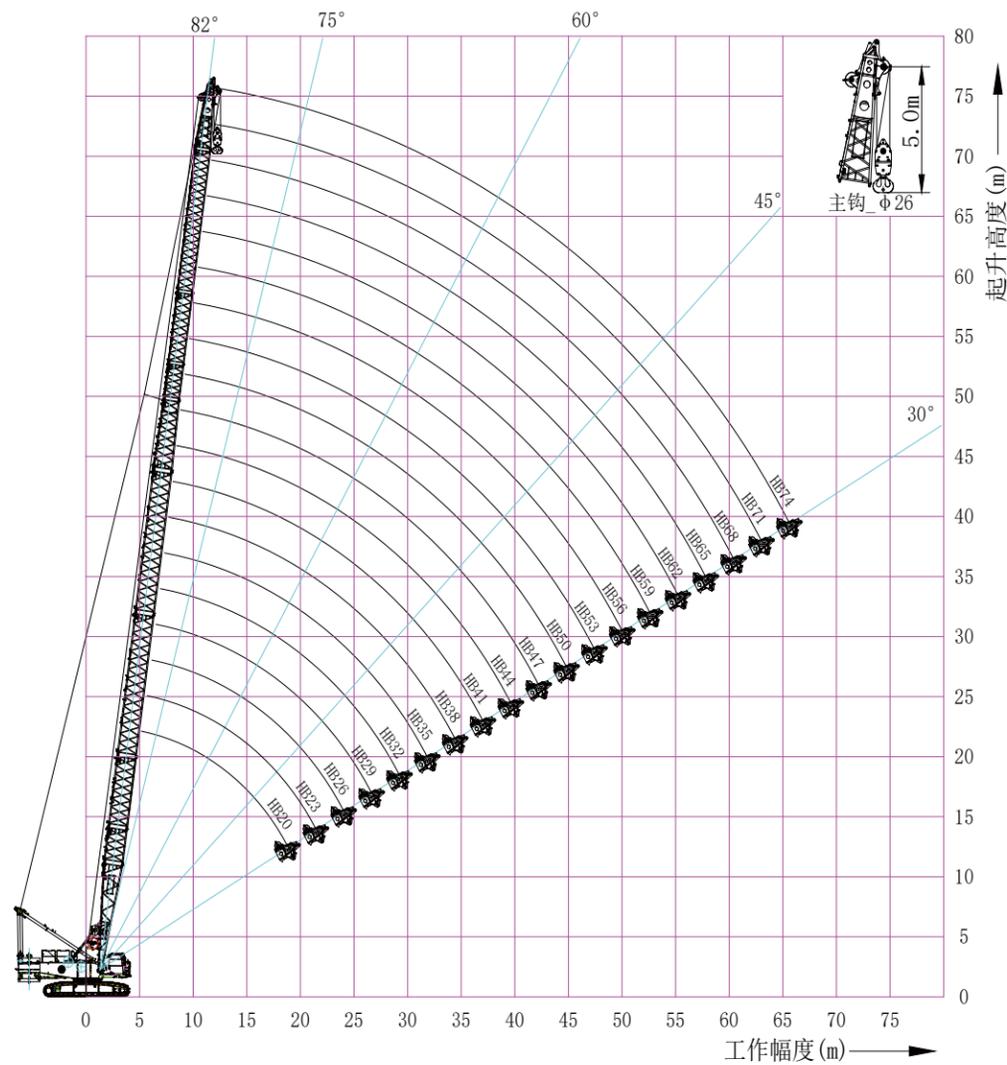
Notes:

1. “◎” - boom can be raised; “●” -- wedge required to raise boom; “×” - boom cannot be raised, this working condition cannot be used.
2. Center hitch must be used for main boom combinations with “\*” mark.
3. When boom raising, place crawler drive roller at the rear of the crane.
4. When boom length is  $\geq 60\text{m}$  and main boom angle must be  $\geq 30^\circ$ , the hook can be lifted off the ground.

## Typical working conditions

### 1.1 Characteristics of main boom main hook without boom single pulley (HB/1) under main boom working condition

Working range of main boom main hook without boom single pulley (HB/1) under main boom working condition



Working range of main boom main hook without boom single pulley (HB/1) under main boom working condition

Performance of main boom main hook without boom single pulley (HB/1\_48t+12t) under main boom working condition

Working radius (m)	Boom length (m)										
	20	23	26	29	32	35	38	41	44	47	50
5	130										
6	123.7	120.4	117.3	109.8							
7	103.3	100.8	98.3	96.3	94.4	87.1					
8	88.5	86.5	84.6	82.9	81.3	79.8	75.4	75.4			
9	77.3	75.6	74.1	72.6	71.3	70	68.9	67.6	63.4	63.4	63.4
10	68.8	67.8	66.8	65.8	64.9	64	63	62	61.1	60.2	59.2
11	59.8	59.6	58.8	58	57.3	56.5	55.7	54.9	54.1	53.3	52.5
12	52.7	52.7	52.5	51.8	51.2	50.5	49.8	49.1	48.4	47.7	47
13	47	47	47	46.7	46.2	45.6	45	44.3	43.8	43.1	42.5
14	42.3	42.3	42.3	42.2	42	41.4	40.9	40.4	39.8	39.3	38.7
15	38.4	38.4	38.4	38.3	38.3	38	37.5	37	36.5	36	35.5
16	35.1	35.1	35.1	35	35	34.9	34.5	34.1	33.6	33.2	32.7
17	32.2	32.2	32.3	32.2	32.2	32.1	32	31.5	31.2	30.7	30.3
18	29.8	29.8	29.8	29.7	29.7	29.6	29.5	29.3	29	28.6	28.2
19		27.6	27.6	27.6	27.6	27.5	27.4	27.2	27	26.6	26.3
20		25.7	25.7	25.7	25.7	25.6	25.5	25.3	25.3	24.9	24.6
22			22.5	22.4	22.5	22.3	22.2	22.1	22	21.9	21.7
24			19.9	19.8	19.9	19.7	19.6	19.5	19.4	19.3	19.2
26				17.7	17.7	17.6	17.5	17.3	17.3	17.1	17
28					15.9	15.8	15.7	15.5	15.5	15.3	15.2
30						14.2	14.1	14	13.9	13.8	13.6
32							12.8	12.6	12.6	12.4	12.3
34							11.6	11.5	11.4	11.3	11.1
36								10.4	10.4	10.2	10.1
38									9.5	9.3	9.2
40										8.5	8.4
42										7.8	7.7
44											7
倍率	12	10	10	9	8	7	6	6	5	5	5

Notes:

1. The actual lifting weight is the remained weight after the weights of hook, slings and wire ropes reeved on hook and boom (jib) head are subtracted from the rated lifting load in table.
2. The rated lifting capacity in the table is the value of the crane on level and solid ground, slowly lifting a load and without travel.
3. The rated lifting capacity in the table is the calculation value based on the boom sections without tower jib rear pendant, tower jib guide pulley and boom single pulley.
4. Tower jib rear pendant need to be removed from boom sections, tower/fixed jib guide pulley need to be removed from boom transition section.
5. Boom length exceeds 65m and with “\*”, center hitch must be used;

**Typical working conditions**

Performance of main boom main hook under main boom working condition without boom single pulley (HB/1_48t+12t) (continuous)									
Working radius(m)	Main boom length (m)								
	53	56	59	62	65	68*	71*	74*	
10	52.5	49.9							
11	51.2	48.5	44.8	38.8	37.7				
12	47.3	46.5	43	38.8	36.6	36.4	33.3		
13	42.7	42.4	41.2	38.1	35.2	35.9	32.9	29.5	
14	38.9	38.7	38.2	36.5	33.8	35.3	32.4	29.4	
15	35.7	35.5	35.1	34.6	32.4	33.8	32	29.1	
16	32.9	32.7	32.4	32	31.1	31.1	30.8	28.7	
17	30.4	30.3	30	29.6	29.2	28.8	28.5	28.1	
18	28.3	28.2	27.9	27.5	27.2	26.8	26.5	26.1	
19	26.4	26.3	26	25.7	25.3	25	24.7	24.3	
20	24.7	24.6	24.3	24	23.7	23.3	23.1	22.7	
22	21.6	21.8	21.5	21.2	20.9	20.5	20.3	20	
24	19	19.2	19	18.8	18.5	18.2	18	17.7	
26	16.8	17	16.9	16.7	16.5	16.3	16.1	15.8	
28	15	15.2	15	14.9	14.7	14.5	14.5	14.2	
30	13.5	13.7	13.5	13.3	13.2	13	12.9	12.7	
32	12.1	12.3	12.2	12	11.8	11.6	11.6	11.4	
34	11	11.2	11	10.8	10.7	10.5	10.4	10.2	
36	10	10.1	10	9.8	9.6	9.4	9.4	9.2	
38	9	9.2	9.1	8.9	8.7	8.5	8.4	8.3	
40	8.2	8.4	8.2	8.1	7.9	7.7	7.6	7.5	
42	7.5	7.7	7.5	7.4	7.2	7	6.9	6.7	
44	6.8	7	6.8	6.7	6.5	6.3	6.2	6.1	
46	6.2	6.4	6.2	6.1	5.9	5.7	5.6	5.5	
48		5.9	5.7	5.5	5.3	5.2	5.1	4.9	
50		5.4	5.2	5	4.6	4.7	4.6	4.4	
52			4.7	4.6	4	4.2	4.1	3.9	
54				4.1	3.4	3.8	3.7	3.5	
56					2.9	3.4	3.3	3.1	
58						3	2.9	2.8	
60						2.7	2.6	2.4	
62							2.3	2.1	
Parts of line	5	4	4	3	3	3	3	3	

Notes:

1. The actual lifting weight is the remained weight after the weights of hook, slings and wire ropes reeved on hook and boom (jib) head are subtracted from the rated lifting load in table.
2. The rated lifting capacity in the table is the value of the crane on level and solid ground, slowly lifting a load and without travel.
3. The rated lifting capacity in the table is the calculation value based on the boom sections without tower jib rear pendant, tower jib guide pulley and boom single pulley.
4. Tower jib rear pendant need to be removed from boom sections, tower/fixed jib guide pulley need to be removed from boom transition section.
5. Boom length exceeds 65m and with “\*”, center hitch must be used;

Performance of main boom main hook without boom single pulley (HB/1_38t+12t) under main boom working condition											
Working radius (m)	Main boom length (m)										
	20	23	26	29	32	35	38	41	44	47	50
5	130										
6	123.3	117.6	112.4	107.6							
7	100.5	96.6	92.9	89.5	86.4	83.4					
8	82.4	81	79.1	76.5	74.1	71.8	69.6	67.5			
9	69.6	68.5	67.4	66.3	64.8	63	61.2	59.5	57.9	56.4	54.9
10	59.8	58.9	58.1	57.2	56.4	55.5	54.6	53.8	52.9	52.1	51.2
11	51.9	51.7	51.1	50.3	49.7	48.9	48.2	47.5	46.8	46	45.3
12	45.6	45.7	45.5	44.9	44.3	43.7	43.1	42.4	41.8	41.2	40.5
13	40.6	40.6	40.6	40.4	39.9	39.4	38.8	38.2	37.7	37.2	36.6
14	36.5	36.5	36.5	36.5	36.3	35.8	35.3	34.8	34.3	33.8	33.3
15	33.1	33.1	33.1	33	33.1	32.7	32.3	31.8	31.4	30.9	30.4
16	30.2	30.2	30.2	30.1	30.2	30.1	29.7	29.2	28.9	28.4	28
17	27.7	27.7	27.7	27.7	27.7	27.6	27.4	27	26.7	26.3	25.9
18	25.6	25.6	25.6	25.5	25.5	25.4	25.3	25.1	24.8	24.4	24
19		23.7	23.7	23.6	23.6	23.5	23.4	23.3	23.1	22.7	22.3
20		22	22	21.9	22	21.8	21.7	21.6	21.5	21.2	20.9
22			19.2	19.1	19.1	19	18.9	18.8	18.7	18.6	18.3
24			16.9	16.8	16.9	16.7	16.6	16.5	16.4	16.3	16.2
26				14.9	15	14.8	14.8	14.6	14.5	14.4	14.3
28					13.4	13.3	13.2	13	13	12.8	12.7
30						11.9	11.8	11.7	11.6	11.4	11.3
32							10.6	10.5	10.4	10.3	10.1
34								9.6	9.4	9.4	9.1
36									8.5	8.5	8.2
38										7.7	7.4
40											6.8
42											6
44											5.4
Parts of line	12	10	10	9	8	7	6	6	5	5	5

Notes:

1. The actual lifting weight is the remained weight after the weights of hook, slings and wire ropes reeved on hook and boom (jib) head are subtracted from the rated lifting load in table.
2. The rated lifting capacity in the table is the value of the crane on level and solid ground, slowly lifting a load and without travel.
3. The rated lifting capacity in the table is the calculation value based on the boom sections without tower jib rear pendant, tower jib guide pulley and boom single pulley.
4. Tower jib rear pendant need to be removed from boom sections, tower/fixed jib guide pulley need to be removed from boom transition section.
5. Boom length exceeds 65m and with “\*”, center hitch must be used;

**Typical working conditions**

Performance of main boom main hook without boom single pulley (HB/1_38t+12t) under main boom working condition (continuous table)						
Working radius (m)	Main boom length (m)					
	53	56	59	62	65	68*
10	50.3	49.5				
11	45.3	44.7	43.8	38.8	37.7	
12	40.8	40.5	39.8	38.8	36.6	36.4
13	36.9	36.6	36.1	35.6	35	34.3
14	33.5	33.3	32.9	32.5	32	31.6
15	30.7	30.5	30.1	29.7	29.3	28.9
16	28.2	28.1	27.7	27.3	27	26.6
17	26.1	26	25.6	25.3	24.9	24.5
18	24.2	24.1	23.8	23.4	23.1	22.8
19	22.5	22.4	22.1	21.8	21.5	21.2
20	21	21	20.7	20.4	20.1	19.7
22	18.3	18.4	18.2	17.9	17.6	17.3
24	16	16.2	16	15.8	15.6	15.3
26	14.1	14.3	14.1	14	13.8	13.6
28	12.5	12.7	12.5	12.4	12.2	12
30	11.1	11.3	11.2	11	10.8	10.6
32	10	10.1	10	9.8	9.7	9.5
34	8.9	9.1	9	8.8	8.6	8.4
36	8	8.2	8	7.9	7.7	7.5
38	7.2	7.4	7.2	7.1	6.9	6.7
40	6.5	6.7	6.5	6.4	6.2	6
42	5.9	6.1	5.9	5.7	5.6	5.4
44	5.3	5.5	5.3	5.2	5	4.8
46	4.8	4.9	4.8	4.6	4.5	4.3
48		4.5	4.3	4.1	4	3.8
50		4	3.8	3.7	3.5	3.3
52			3.4	3.3	3.1	2.9
54				2.9	2.7	2.5
56					2.4	2.2
Parts of line	5	4	4	3	3	3

Notes:

1. The actual lifting weight is the remained weight after the weights of hook, slings and wire ropes reeved on hook and boom (jib) head are subtracted from the rated lifting load in table.
2. The rated lifting capacity in the table is the value of the crane on level and solid ground, slowly lifting a load and without travel.
3. The rated lifting capacity in the table is the calculation value based on the boom sections without tower jib rear pendant, tower jib guide pulley and boom single pulley.
4. Tower jib rear pendant need to be removed from boom sections, tower/fixed jib guide pulley need to be removed from boom transition section.
5. Boom length exceeds 65m and with “\*”, center hitch must be used;

Performance of main boom main hook without boom single pulley (HB/1_28t+12t) under main boom working condition											
Working radius (m)	Main boom length (m)										
	20	23	26	29	32	35	38	41	44	47	50
5	130										
6	105.3	100.4	95.9	91.8							
7	85.7	82.3	79.2	76.3	73.6	71					
8	70.3	69	67.3	65.1	63	61.1	59.2	57.3			
9	59.2	58.3	57.3	56.4	55	53.4	51.9	50.4	49.1	47.7	46.4
10	50.8	50	49.3	48.5	47.8	47	46.3	45.5	44.7	44	43.2
11	44	43.9	43.3	42.6	42	41.4	40.7	40.1	39.5	38.8	38.1
12	38.6	38.6	38.5	37.9	37.4	36.9	36.3	35.7	35.2	34.6	34
13	34.3	34.3	34.3	34.1	33.7	33.2	32.7	32.2	31.7	31.2	30.7
14	30.8	30.8	30.8	30.7	30.5	30.1	29.6	29.2	28.7	28.3	27.8
15	27.9	27.9	27.9	27.8	27.8	27.4	27	26.6	26.2	25.8	25.4
16	25.4	25.4	25.4	25.3	25.3	25.2	24.8	24.4	24.1	23.7	23.3
17	23.2	23.2	23.2	23.2	23.2	23.1	22.9	22.5	22.2	21.8	21.4
18	21.4	21.4	21.4	21.3	21.3	21.2	21.1	20.8	20.6	20.2	19.8
19		19.7	19.8	19.7	19.7	19.6	19.5	19.3	19.1	18.8	18.4
20		18.3	18.3	18.2	18.3	18.1	18	17.9	17.8	17.5	17.1
22			15.9	15.8	15.8	15.7	15.6	15.5	15.4	15.3	15
24			13.9	13.8	13.9	13.7	13.6	13.5	13.4	13.3	13.2
26				12.2	12.2	12.1	12	11.9	11.8	11.7	11.5
28					10.8	10.7	10.6	10.5	10.4	10.3	10.1
30						9.5	9.5	9.3	9.3	9.1	9
32							8.4	8.3	8.2	8.1	8
34							7.5	7.4	7.4	7.2	7.1
36								6.6	6.6	6.4	6.3
38									5.9	5.7	5.6
40										5.1	5
42										4.5	4.4
44											3.9
Parts of line	12	10	10	9	8	7	6	6	5	5	5

Notes:

1. The actual lifting weight is the remained weight after the weights of hook, slings and wire ropes reeved on hook and boom (jib) head are subtracted from the rated lifting load in table.
2. The rated lifting capacity in the table is the value of the crane on level and solid ground, slowly lifting a load and without travel.
3. The rated lifting capacity in the table is the calculation value based on the boom sections without tower jib rear pendant, tower jib guide pulley and boom single pulley.
4. Tower jib rear pendant need to be removed from boom sections, tower/fixed jib guide pulley need to be removed from boom transition section.

**Typical working conditions**

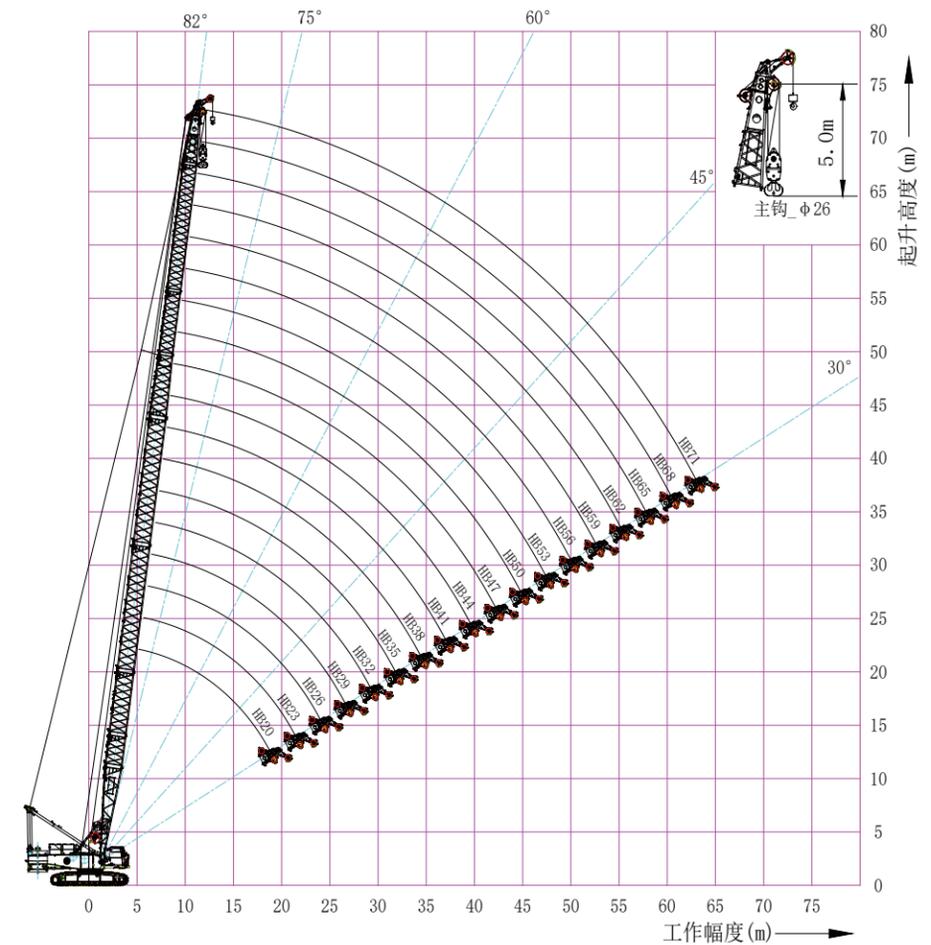
Performance of main boom main hook without boom single pulley (HB/1_28t+12t) under main boom working condition (continuous table)				
Working radius (m)	Main boom length (m)			
	53	56	59	62
10	42.4	41.7		
11	38.1	37.6	36.8	35.9
12	34.4	34.1	33.4	32.7
13	31	30.8	30.3	29.9
14	28.1	27.9	27.5	27.1
15	25.6	25.5	25.2	24.8
16	23.5	23.4	23.1	22.7
17	21.7	21.6	21.3	21
18	20	20	19.7	19.4
19	18.6	18.6	18.3	18
20	17.3	17.3	17	16.7
22	15	15.1	14.8	14.6
24	13	13.2	13	12.8
26	11.4	11.5	11.4	11.2
28	10	10.2	10	9.8
30	8.8	9	8.8	8.7
32	7.8	8	7.8	7.7
34	6.9	7.1	6.9	6.8
36	6.1	6.3	6.1	6
38	5.4	5.6	5.4	5.3
40	4.8	5	4.8	4.7
42	4.3	4.4	4.3	4.1
44	3.8	3.9	3.8	3.6
46	3.3	3.5	3.3	3.2
48		3.1	2.9	2.7
50		2.7	2.5	2.4
52			2.1	2
Parts of line	5	4	4	3

Notes:

1. The actual lifting weight is the remained weight after the weights of hook, slings and wire ropes reeved on hook and boom (jib) head are subtracted from the rated lifting load in table.
2. The rated lifting capacity in the table is the value of the crane on level and solid ground, slowly lifting a load and without travel.
3. The rated lifting capacity in the table is the calculation value based on the boom sections without tower jib rear pendant, tower jib guide pulley and boom single pulley.
4. Tower jib rear pendant need to be removed from boom sections, tower/fixed jib guide pulley need to be removed from boom transition section.

1.2 Characteristics of main boom main hook with boom single pulley under main boom working condition (HBS/1)

Working range of main boom main hook with boom single pulley auxiliary hook (HBS/1) under main boom working condition



Working radius of main boom main hook with boom single pulley (HBS/1) under main boom working condition

**Typical working conditions**

Performance of main boom main hook with boom single pulley auxiliary hook (HBS/1_48t+12t) under main boom working condition											
Working radius (m)	Main boom length (m)										
	20	23	26	29	32	35	38	41	44	47	50
5	130										
6	122.5	119.2	116.2	109.8							
7	102.1	99.6	97.3	95.1	93.3	87.1					
8	87.3	85.3	83.5	81.8	80.3	78.8	75.4	75.4			
9	76.1	74.5	73	71.5	70.3	69	67.8	66.6	63.4	63.4	62.1
10	67.3	65.9	64.7	63.4	62.4	61.3	60.2	59.2	58.3	57.1	55.6
11	58.9	58.8	58	56.9	56	55	54	53.1	52.4	51.5	50.3
12	51.8	51.8	51.7	51	50.4	49.7	48.9	48.1	47.4	46.7	45.8
13	46.2	46.2	46.2	46	45.4	44.8	44.2	43.6	43.1	42.5	41.8
14	41.5	41.5	41.5	41.4	41.3	40.7	40.2	39.7	39.2	38.6	38.1
15	37.6	37.6	37.6	37.5	37.5	37.3	36.8	36.3	35.8	35.3	34.8
16	34.3	34.3	34.3	34.2	34.3	34.2	33.8	33.4	33	32.5	32
17	31.5	31.5	31.5	31.4	31.4	31.3	31.2	30.8	30.5	30	29.6
18	29	29.1	29.1	29	29	28.9	28.8	28.6	28.3	27.9	27.5
19		26.9	26.9	26.8	26.8	26.7	26.6	26.5	26.4	26	25.6
20		25	25	24.9	24.9	24.8	24.7	24.6	24.5	24.3	23.9
22			21.8	21.7	21.8	21.6	21.5	21.4	21.3	21.2	21
24			19.2	19.1	19.2	19	18.9	18.8	18.7	18.6	18.5
26				17	17	16.9	16.8	16.7	16.6	16.4	16.3
28					15.2	15.1	15	14.8	14.8	14.6	14.5
30						13.5	13.4	13.3	13.2	13.1	13
32							12.1	12	11.9	11.8	11.6
34								10.9	10.8	10.8	10.6
36									9.8	9.7	9.6
38										8.8	8.7
40											7.9
42											7.1
44											7
Parts of line	12	10	10	9	8	7	6	6	5	5	5

- Notes:
- The actual lifting weight is the remained weight after the weights of hook, slings and wire ropes reeved on hook and boom (jib) head are subtracted from the rated lifting load in table.
  - The rated lifting capacity in the table is the value of the crane on level and solid ground, slowly lifting a load and without travel.
  - The rated lifting capacity in the table is the calculation value based on the boom sections without tower jib rear pendant, tower jib guide pulley and boom single pulley.
  - Tower jib rear pendant need to be removed from boom sections, tower/fixed jib guide pulley need to be removed from boom transition section.
  - Boom length exceeds 65m and with “\*”, center hitch must be used;

Performance of main boom main hook with boom single pulley auxiliary hook (HBS/1_48t+12t) under main book working condition (Continuous)							
Working radius (m)	Main boom length (m)						
	53	56	59	62	65	68*	71*
10	51.2	49.5					
11	49.1	48.1	44.5	38.8	37.4		
12	44.8	44.1	42.6	38.8	36.3	36.1	32.9
13	41.1	40.5	39.7	37.7	34.8	34.5	32.6
14	37.8	37.4	36.6	35.8	33.4	33.1	32.1
15	34.9	34.6	33.9	33.2	32	31.8	31.2
16	32.2	32.1	31.6	30.9	30.3	29.6	29.1
17	29.8	29.7	29.3	28.9	28.3	27.7	27.2
18	27.6	27.6	27.2	26.9	26.5	25.9	25.4
19	25.7	25.7	25.3	25	24.7	24.3	23.9
20	24	24	23.7	23.4	23	22.7	22.4
22	20.9	21.1	20.8	20.5	20.2	19.9	19.7
24	18.3	18.5	18.3	18.2	17.9	17.6	17.4
26	16.1	16.3	16.2	16	15.9	15.7	15.5
28	14.3	14.5	14.4	14.2	14	13.9	13.8
30	12.8	13	12.8	12.7	12.5	12.3	12.2
32	11.5	11.6	11.5	11.3	11.2	11	10.9
34	10.3	10.5	10.3	10.2	10	9.8	9.7
36	9.3	9.5	9.3	9.1	9	8.8	8.7
38	8.4	8.5	8.4	8.2	8.1	7.9	7.8
40	7.6	7.7	7.6	7.4	7.2	7.1	7
42	6.8	7	6.8	6.7	6.5	6.3	6.2
44	6.2	6.4	6.2	6	5.9	5.7	5.6
46	5.6	5.8	5.6	5.4	5.3	5.1	5
48		5.2	5	4.9	4.6	4.5	4.4
50		4.7	4.5	4.4	4	4	3.9
52			4.1	3.9	3.4	3.6	3.5
54				3.5	2.8	3.1	3.1
56					2.2	2.7	2.7
58						2.4	2.3
60						2	1.9
Parts of line	5	4	4	3	3	3	3

- Notes:
- The actual lifting weight is the remained weight after the weights of hook, slings and wire ropes reeved on hook and boom (jib) head are subtracted from the rated lifting load in table.
  - The rated lifting capacity in the table is the value of the crane on level and solid ground, slowly lifting a load and without travel.
  - The rated lifting capacity in the table is the calculation value based on the boom sections without tower jib rear pendant, tower jib guide pulley and boom single pulley.
  - Tower jib rear pendant need to be removed from boom sections, tower/fixed jib guide pulley need to be removed from boom transition section.
  - Boom length exceeds 65m and with “\*”, center hitch must be used;

**Typical working conditions**

Performance of main boom main hook with boom single pulley (HBS/1_38t+12t) under main boom working condition											
Working radius (m)	Main boom length (m)										
	20	23	26	29	32	35	38	41	44	47	50
5	130										
6	121.6	115.9	110.8	106							
7	98.9	95	91.4	88	84.9	81.9					
8	81.2	79.8	77.6	75.1	72.7	70.4	68.3	66.2			
9	68.4	67.4	66.3	65.2	63.4	61.6	59.9	58.2	56.6	55.1	53.6
10	59	58.1	57.3	56.4	55.6	54.6	53.2	51.8	50.5	49.2	48
11	51	51	50.3	49.6	48.9	48.2	47.5	46.6	45.5	44.4	43.3
12	44.8	44.8	44.7	44.1	43.6	43	42.3	41.7	41.1	40.3	39.3
13	39.8	39.8	39.8	39.6	39.2	38.6	38.1	37.5	37	36.5	35.9
14	35.8	35.8	35.8	35.7	35.5	35	34.6	34.1	33.6	33.1	32.6
15	32.4	32.4	32.4	32.3	32.3	32	31.6	31.1	30.7	30.2	29.8
16	29.5	29.5	29.5	29.4	29.4	29.3	29	28.6	28.2	27.8	27.3
17	27	27	27	26.9	26.9	26.8	26.7	26.3	26	25.6	25.2
18	24.8	24.8	24.8	24.8	24.8	24.7	24.6	24.4	24.1	23.7	23.3
19		23	23	22.9	22.9	22.8	22.7	22.6	22.4	22	21.7
20		21.3	21.3	21.2	21.2	21.1	21	20.9	20.8	20.5	20.2
22			18.5	18.4	18.4	18.3	18.2	18.1	18	17.9	17.7
24			16.2	16.1	16.2	16	15.9	15.8	15.7	15.6	15.5
26				14.2	14.3	14.2	14.1	13.9	13.8	13.7	13.6
28					12.7	12.6	12.5	12.3	12.3	12.1	12
30						11.2	11.1	11	10.9	10.8	10.6
32							9.9	9.8	9.7	9.6	9.5
34							8.9	8.8	8.7	8.6	8.4
36							7.9	7.8	7.7	7.5	7.5
38								7	6.9	6.7	6.7
40									6.2	6	6
42									5.5	5.4	5.4
44										4.8	4.8
Parts of line	12	10	10	9	8	7	6	6	5	5	5

Notes:

1. The actual lifting weight is the remained weight after the weights of hook, slings and wire ropes reeved on hook and boom (jib) head are subtracted from the rated lifting load in table.
2. The rated lifting capacity in the table is the value of the crane on level and solid ground, slowly lifting a load and without travel.
3. The rated lifting capacity in the table is the calculation value based on the boom sections without tower jib rear pendant, tower jib guide pulley and boom single pulley.
4. Tower jib rear pendant need to be removed from boom sections, tower/fixed jib guide pulley need to be removed from boom transition section.

Performance of main boom main hook with boom single pulley auxiliary hook (HBS/1_38t+12t) under main boom working condition (continuous table)					
Working radius (m)	Main boom length (m)				
	53	56	59	62	65
10	46.8	45.9			
11	42.2	41.6	40.6	38.8	37.4
12	38.4	37.9	37	36.1	35.3
13	35.2	34.7	33.9	33.2	32.4
14	32.3	31.9	31.2	30.6	29.9
15	29.9	29.5	28.9	28.3	27.6
16	27.5	27.4	26.8	26.2	25.7
17	25.4	25.3	25	24.4	23.9
18	23.5	23.4	23.1	22.8	22.3
19	21.8	21.8	21.5	21.2	20.9
20	20.3	20.3	20	19.7	19.4
22	17.6	17.8	17.5	17.2	17
24	15.3	15.5	15.3	15.2	14.9
26	13.4	13.6	13.4	13.3	13.1
28	11.8	12	11.8	11.7	11.5
30	10.5	10.6	10.5	10.3	10.2
32	9.3	9.5	9.3	9.1	9
34	8.3	8.4	8.3	8.1	8
36	7.4	7.5	7.4	7.2	7.1
38	6.6	6.7	6.6	6.4	6.3
40	5.9	6	5.9	5.7	5.5
42	5.2	5.4	5.2	5.1	4.9
44	4.6	4.8	4.6	4.5	4.3
46	4.1	4.3	4.1	4	3.8
48		3.8	3.6	3.5	3.3
50		3.4	3.2	3	2.9
52			2.8	2.6	2.5
54				2.3	2.1
Parts of line	5	4	4	3	3

Notes:

1. The actual lifting weight is the remained weight after the weights of hook, slings and wire ropes reeved on hook and boom (jib) head are subtracted from the rated lifting load in table.
2. The rated lifting capacity in the table is the value of the crane on level and solid ground, slowly lifting a load and without travel.
3. The rated lifting capacity in the table is the calculation value based on the boom sections without tower jib rear pendant, tower jib guide pulley and boom single pulley.
4. Tower jib rear pendant need to be removed from boom sections, tower/fixed jib guide pulley need to be removed from boom transition section.

**Typical working conditions**

Performance of main boom main hook with boom single pulley auxiliary hook (HBS/1_28t+12t) under main boom working condition												
Working radius (m)	Main boom length (m)											
	20	23	26	29	32	35	38	41	44	47	50	
5	130											
6	103.5	98.7	94.3	90.2								
7	84.1	80.8	77.7	74.8	72.1	69.5						
8	69.1	67.9	65.8	63.6	61.6	59.7	57.8	56				
9	58.1	57.2	56.2	55.2	53.7	52.1	50.6	49.1	47.8	46.4	45.1	
10	49.9	49.2	48.5	47.7	47	46.1	44.8	43.6	42.5	41.4	40.3	
11	43.2	43.1	42.5	41.9	41.3	40.7	40	39.1	38.2	37.2	36.3	
12	37.8	37.8	37.7	37.2	36.7	36.2	35.6	35	34.5	33.7	32.9	
13	33.5	33.5	33.5	33.3	32.9	32.5	32	31.5	31	30.5	30	
14	30	30	30	30	29.8	29.4	28.9	28.5	28	27.6	27.1	
15	27.1	27.1	27.1	27	27	26.7	26.3	25.9	25.5	25.1	24.7	
16	24.6	24.6	24.6	24.5	24.6	24.4	24.1	23.7	23.4	23	22.6	
17	22.5	22.5	22.5	22.4	22.4	22.3	22.2	21.8	21.5	21.2	20.8	
18	20.6	20.6	20.6	20.6	20.6	20.5	20.4	20.2	19.9	19.5	19.2	
19		19	19	18.9	19	18.8	18.7	18.6	18.4	18.1	17.8	
20		17.6	17.6	17.5	17.5	17.4	17.3	17.2	17.1	16.8	16.5	
22			15.2	15.1	15.1	15	14.9	14.8	14.7	14.5	14.3	
24			13.2	13.1	13.2	13	12.9	12.8	12.7	12.6	12.4	
26				11.5	11.5	11.4	11.3	11.2	11.1	11	10.8	
28					10.2	10	9.9	9.8	9.7	9.6	9.5	
30						8.9	8.8	8.6	8.6	8.4	8.3	
32							7.8	7.6	7.6	7.4	7.3	
34							6.9	6.7	6.7	6.5	6.4	
36								6	5.9	5.8	5.6	
38									5.2	5.1	4.9	
40										4.4	4.3	
42											3.9	
44												3.3
Parts of line	12	10	10	9	8	7	6	6	5	5	5	

Notes:

1. The actual lifting weight is the remained weight after the weights of hook, slings and wire ropes reeved on hook and boom (jib) head are subtracted from the rated lifting load in table.
2. The rated lifting capacity in the table is the value of the crane on level and solid ground, slowly lifting a load and without travel.
3. The rated lifting capacity in the table is the calculation value based on the boom sections without tower jib rear pendant, tower jib guide pulley and boom single pulley.
4. Tower jib rear pendant need to be removed from boom sections, tower/fixed jib guide pulley need to be removed from boom transition section.

Performance of main boom main hook with boom single pulley auxiliary hook (HBS/1_28t+12t) under main boom working condition (continuous table)			
Working radius (m)	Main boom length (m)		
	53	56	59
10	39.2	38.5	
11	35.3	34.8	33.9
12	32.1	31.6	30.8
13	29.2	28.9	28.2
14	26.8	26.5	25.9
15	24.7	24.4	23.9
16	22.8	22.6	22.1
17	21	20.9	20.5
18	19.4	19.3	19
19	17.9	17.9	17.6
20	16.6	16.6	16.4
22	14.3	14.4	14.2
24	12.3	12.5	12.3
26	10.7	10.8	10.7
28	9.3	9.5	9.3
30	8.1	8.3	8.1
32	7.1	7.3	7.1
34	6.2	6.4	6.2
36	5.5	5.6	5.5
38	4.8	4.9	4.8
40	4.2	4.3	4.2
42	3.6	3.8	3.6
44	3.1	3.3	3.1
46	2.6	2.8	2.7
48		2.4	2.2
50		2	1.9
Parts of line	5	4	4

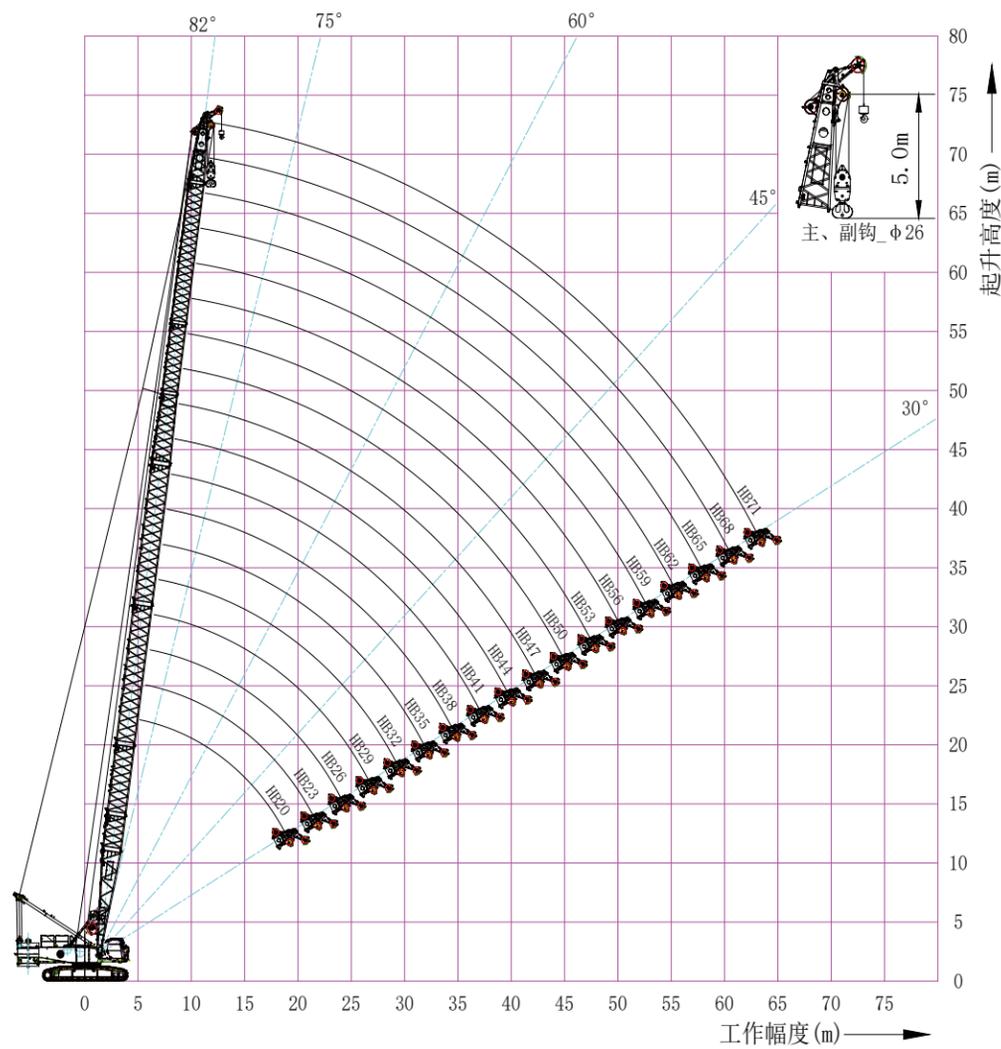
Notes:

1. The actual lifting weight is the remained weight after the weights of hook, slings and wire ropes reeved on hook and boom (jib) head are subtracted from the rated lifting load in table.
2. The rated lifting capacity in the table is the value of the crane on level and solid ground, slowly lifting a load and without travel.
3. The rated lifting capacity in the table is the calculation value based on the boom sections without tower jib rear pendant, tower jib guide pulley and boom single pulley.
4. Tower jib rear pendant need to be removed from boom sections, tower/fixed jib guide pulley need to be removed from boom transition section.

**Typical working conditions**

1.3 Characteristics of boom single pulley auxiliary hook with main boom main hook (HBS/2) under main boom working condition

Working range of boom single pulley auxiliary hook with main boom main hook (HBS/2) under main boom working condition



Working range of boom single pulley auxiliary hook with main boom main hook (HBS/2) under main boom working condition

Performance of boom single pulley auxiliary hook with main boom main hook (HBS/2_48t+12t) under main boom working condition											
Working radius (m)	Main boom length (m)										
	20	23	26	29	32	35	38	41	44	47	50
6	13.5	13.5									
7	13.5	13.5	13.5	13.5							
8	13.5	13.5	13.5	13.5	13.5	13.5	13.5				
9	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5		
10	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
11	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
12	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
13	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
14	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
15	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
16	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
17	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
18	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
19	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
20	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
22		13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
24			13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
26				13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
28				13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.4
30					12.6	12.5	12.4	12.2	12.1	12	11.8
32						11.2	11.1	10.9	10.8	10.7	10.5
34							9.9	9.7	9.7	9.5	9.4
36								8.7	8.7	8.5	8.3
38								7.8	7.7	7.6	7.4
40									6.9	6.8	6.6
42										6	5.9
44											5.2
46											4.6
Parts of line	1	1	1	1	1	1	1	1	1	1	1

- Notes:
1. The actual lifting weight is the remained weight after the weights of hook, slings and wire ropes reeved on hook and boom (jib) head are subtracted from the rated lifting load in table.
  2. The rated lifting capacity in the table is the value of the crane on level and solid ground, slowly lifting a load and without travel.
  3. The rated lifting capacity in the table is the calculation value based on the boom sections without tower jib rear pendant, tower jib guide pulley and boom single pulley.
  4. Tower jib rear pendant need to be removed from boom sections, tower/fixed jib guide pulley need to be removed from boom transition section.
  5. Boom length exceeds 65m and with “\*”, center hitch must be used;

**Typical working conditions**

Performance of boom single pulley auxiliary hook with main boom main hook (HBS/2_48t+12t) under main boom working condition (continuous table)							
Working radius (m)	Main boom length (m)						
	53	56	59	62	65	68*	71*
10	13.5						
11	13.5	13.5	13.5				
12	13.5	13.5	13.5	13.5	13.5		
13	13.5	13.5	13.5	13.5	13.5	13.5	13.5
14	13.5	13.5	13.5	13.5	13.5	13.5	13.5
15	13.5	13.5	13.5	13.5	13.5	13.5	13.5
16	13.5	13.5	13.5	13.5	13.5	13.5	13.5
17	13.5	13.5	13.5	13.5	13.5	13.5	13.5
18	13.5	13.5	13.5	13.5	13.5	13.5	13.5
19	13.5	13.5	13.5	13.5	13.5	13.5	13.5
20	13.5	13.5	13.5	13.5	13.5	13.5	13.5
22	13.5	13.5	13.5	13.5	13.5	13.5	13.5
24	13.5	13.5	13.5	13.5	13.5	13.5	13.5
26	13.5	13.5	13.5	13.5	13.5	13.5	13.5
28	13.5	13.4	13.5	13	12.9	12.7	12.6
30	11.7	11.8	11.7	11.5	11.3	11.1	11
32	10.3	10.5	10.3	10.2	10	9.8	9.7
34	9.2	9.3	9.2	9	8.8	8.6	8.5
36	8.2	8.3	8.1	8	7.8	7.6	7.5
38	7.3	7.4	7.2	7.1	6.9	6.7	6.6
40	6.5	6.6	6.4	6.3	6.1	5.9	5.8
42	5.7	5.9	5.7	5.6	5.4	5.2	5.1
44	5.1	5.2	5.1	4.9	4.7	4.5	4.4
46	4.5	4.6	4.5	4.3	4.1	3.9	3.8
48	3.9	4.1	3.9	3.8	3.6	3.4	3.3
50		3.6	3.4	3.3	3.1	2.9	2.8
52			3	2.8	2.6	2.4	2.3
54			2.5	2.4	2	2	1.9
56				1.9	1.6	1.6	1.5
Parts of line	1	1	1	1	1	1	1

Notes:

1. The actual lifting weight is the remained weight after the weights of hook, slings and wire ropes reeved on hook and boom (jib) head are subtracted from the rated lifting load in table.
2. The rated lifting capacity in the table is the value of the crane on level and solid ground, slowly lifting a load and without travel.
3. The rated lifting capacity in the table is the calculation value based on the boom sections without tower jib rear pendant, tower jib guide pulley and boom single pulley.
4. Tower jib rear pendant need to be removed from boom sections, tower/fixed jib guide pulley need to be removed from boom transition section.
5. Boom length exceeds 65m and with “\*”, center hitch must be used;

Performance of boom single pulley auxiliary hook with main boom main hook (HBS/2_28t+12t) under main boom working condition											
Working radius (m)	Main boom length (m)										
	20	23	26	29	32	35	38	41	44	47	50
6	13.5	13.5									
7	13.5	13.5	13.5	13.5							
8	13.5	13.5	13.5	13.5	13.5	13.5	13.5				
9	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5		
10	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
11	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
12	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
13	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
14	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
15	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
16	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
17	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
18	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
19	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
20	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
22		13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
24			13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
26				13.5	13.5	13.1	13	12.8	12.7	12.6	12.4
28				11.7	11.7	11.5	11.4	11.2	11.2	11	10.8
30					10.3	10.2	10.1	9.9	9.8	9.6	9.5
32						9	8.9	8.7	8.6	8.5	8.3
34							7.9	7.7	7.6	7.5	7.3
36								6.8	6.7	6.6	6.4
38								6	5.9	5.8	5.6
40									5.2	5.1	4.9
42										4.4	4.3
44											3.7
46											3.2
Parts of line	1	1	1	1	1	1	1	1	1	1	1

Notes:

1. The actual lifting weight is the remained weight after the weights of hook, slings and wire ropes reeved on hook and boom (jib) head are subtracted from the rated lifting load in table.
2. The rated lifting capacity in the table is the value of the crane on level and solid ground, slowly lifting a load and without travel.
3. The rated lifting capacity in the table is the calculation value based on the boom sections without tower jib rear pendant, tower jib guide pulley and boom single pulley.
4. Tower jib rear pendant need to be removed from boom sections, tower/fixed jib guide pulley need to be removed from boom transition section.

**Typical working conditions**

Performance of boom single pulley auxiliary hook with main boom main hook (HBS/2\_38t+12t) under main boom working condition (continuous table)

Working radius (m)	Main boom length (m)				
	53	56	59	62	65
10	13.5				
11	13.5	13.5	13.5		
12	13.5	13.5	13.5	13.5	13.5
13	13.5	13.5	13.5	13.5	13.5
14	13.5	13.5	13.5	13.5	13.5
15	13.5	13.5	13.5	13.5	13.5
16	13.5	13.5	13.5	13.5	13.5
17	13.5	13.5	13.5	13.5	13.5
18	13.5	13.5	13.5	13.5	13.5
19	13.5	13.5	13.5	13.5	13.5
20	13.5	13.5	13.5	13.5	13.5
22	13.5	13.5	13.5	13.5	13.5
24	13.5	13.5	13.5	13.5	13.5
26	12.3	12.4	12.3	12.1	11.9
28	10.7	10.8	10.7	10.5	10.3
30	9.3	9.5	9.3	9.2	9
32	8.2	8.3	8.1	8	7.8
34	7.1	7.3	7.1	7	6.8
36	6.3	6.4	6.2	6.1	5.9
38	5.5	5.6	5.4	5.3	5.1
40	4.7	4.9	4.7	4.6	4.4
42	4.1	4.3	4.1	3.9	3.8
44	3.5	3.7	3.5	3.4	3.2
46	3	3.2	3	2.8	2.7
48	2.6	2.7	2.5	2.4	2.2
50		2.2	2.1	1.9	1.7
52			1.7	1.5	
Parts of line	1	1	1	1	1

Notes:

1. The actual lifting weight is the remained weight after the weights of hook, slings and wire ropes reeved on hook and boom (jib) head are subtracted from the rated lifting load in table.
2. The rated lifting capacity in the table is the value of the crane on level and solid ground, slowly lifting a load and without travel.
3. The rated lifting capacity in the table is the calculation value based on the boom sections without tower jib rear pendant, tower jib guide pulley and boom single pulley.
4. Tower jib rear pendant need to be removed from boom sections, tower/fixed jib guide pulley need to be removed from boom transition section.

Performance of boom single pulley auxiliary hook with main boom main hook (HBS/2\_28t+12t) under main boom working condition

Working radius (m)	Main boom length (m)										
	20	23	26	29	32	35	38	41	44	47	50
6	13.5	13.5									
7	13.5	13.5	13.5	13.5							
8	13.5	13.5	13.5	13.5	13.5	13.5	13.5				
9	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5		
10	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
11	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
12	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
13	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
14	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
15	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
16	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
17	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
18	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
19	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
20	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
22		13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
24			12.3	12.1	12.1	12	11.8	11.7	11.6	11.4	11.3
26				10.5	10.5	10.4	10.2	10.1	10	9.8	9.7
28				9.1	9.1	9	8.9	8.7	8.6	8.5	8.3
30					8	7.8	7.7	7.6	7.5	7.3	7.2
32						6.8	6.7	6.6	6.5	6.3	6.2
34							5.8	5.7	5.6	5.4	5.3
36								4.9	4.8	4.7	4.5
38								4.2	4.1	4	3.8
40									3.5	3.4	3.2
42										2.8	2.7
44											2.2
46											1.7
Parts of line	1	1	1	1	1	1	1	1	1	1	1

Notes:

1. The actual lifting weight is the remained weight after the weights of hook, slings and wire ropes reeved on hook and boom (jib) head are subtracted from the rated lifting load in table.
2. The rated lifting capacity in the table is the value of the crane on level and solid ground, slowly lifting a load and without travel.
3. The rated lifting capacity in the table is the calculation value based on the boom sections without tower jib rear pendant, tower jib guide pulley and boom single pulley.
4. Tower jib rear pendant need to be removed from boom sections, tower/fixed jib guide pulley need to be removed from boom transition section.

**Typical working conditions**

Performance of boom single pulley auxiliary hook with main boom main hook (HBS/2_28t+12t) under main boom working condition (continuous table)			
Working radius (m)	Main boom length (m)		
	53	56	59
10	13.5		
11	13.5	13.5	13.5
12	13.5	13.5	13.5
13	13.5	13.5	13.5
14	13.5	13.5	13.5
15	13.5	13.5	13.5
16	13.5	13.5	13.5
17	13.5	13.5	13.5
18	13.5	13.5	13.5
19	13.5	13.5	13.5
20	13.5	13.5	13.5
22	13.1	13.3	13.1
24	11.1	11.3	11.1
26	9.5	9.7	9.5
28	8.2	8.3	8.1
30	7	7.1	7
32	6	6.1	6
34	5.1	5.3	5.1
36	4.3	4.5	4.3
38	3.7	3.8	3.6
40	3	3.2	3
42	2.5	2.7	2.5
44	2	2.2	2
46	1.6	1.7	1.5
Parts of line	1	1	1

Notes:

1. The actual lifting weight is the remained weight after the weights of hook, slings and wire ropes reeved on hook and boom (jib) head are subtracted from the rated lifting load in table.
2. The rated lifting capacity in the table is the value of the crane on level and solid ground, slowly lifting a load and without travel.
3. The rated lifting capacity in the table is the calculation value based on the boom sections without tower jib rear pendant, tower jib guide pulley and boom single pulley.
4. Tower jib rear pendant need to be removed from boom sections, tower/fixed jib guide pulley need to be removed from boom transition section.

2. Fixed jib working condition

2.1 Main boom sections combinations under fixed jib working condition

Name and Qty.	Boom butt 9m	Boom insert 3mA	Boom insert 6mA	Boom insert 12mA	Boom transition section 6m	Boom insert 3mB	Boom insert 6mB	Boom insert 12mB	Boom top section 5m
HB20	1	0	0	0	1	0	0	0	1
HB23	1	1	0	0	1	0	0	0	1
HB26	1	0	1	0	1	0	0	0	1
HB29	1	1	1	0	1	0	0	0	1
HB32	1	0	0	1	1	0	0	0	1
HB35	1	1	0	1	1	0	0	0	1
HB38	1	0	1	1	1	0	0	0	1
HB41	1	1	1	1	1	0	0	0	1
HB44	1	0	0	2	1	0	0	0	1
HB47	1	1	0	2	1	0	0	0	1
HB50	1	0	1	2	1	0	0	0	1
HB53	1	1	1	2	1	0	0	0	1

2.2 Jib sections combinations under fixed jib working condition

Name and Qty.	Jib butt 5m	Jib insert 3mB	Jib insert 6mB	Jib transition 5m	Jib insert 3mC	Jib insert 6mC	Jib top section 3m
F13	1	0	0	1	0	0	1
F16	1	1	0	1	0	0	1
F19	1	0	1	1	0	0	1
F22	1	1	1	1	0	0	1
F25	1	1	1	1	1	0	1
F28	1	1	1	1	0	1	1
F31	1	1	1	1	1	1	1

1. Each main boom section shall be installed with jib rear pendant.
2. when under fixed jib working condition with main hook or under main hook working condition with fixed jib, main boom transition section must be installed with guide pulley used for fixed jib.
3. When the combination length of the main boom and tower jib exceeds 71m, a wedge block is recommended to be used to raise the boom (jib).

## Typical working conditions

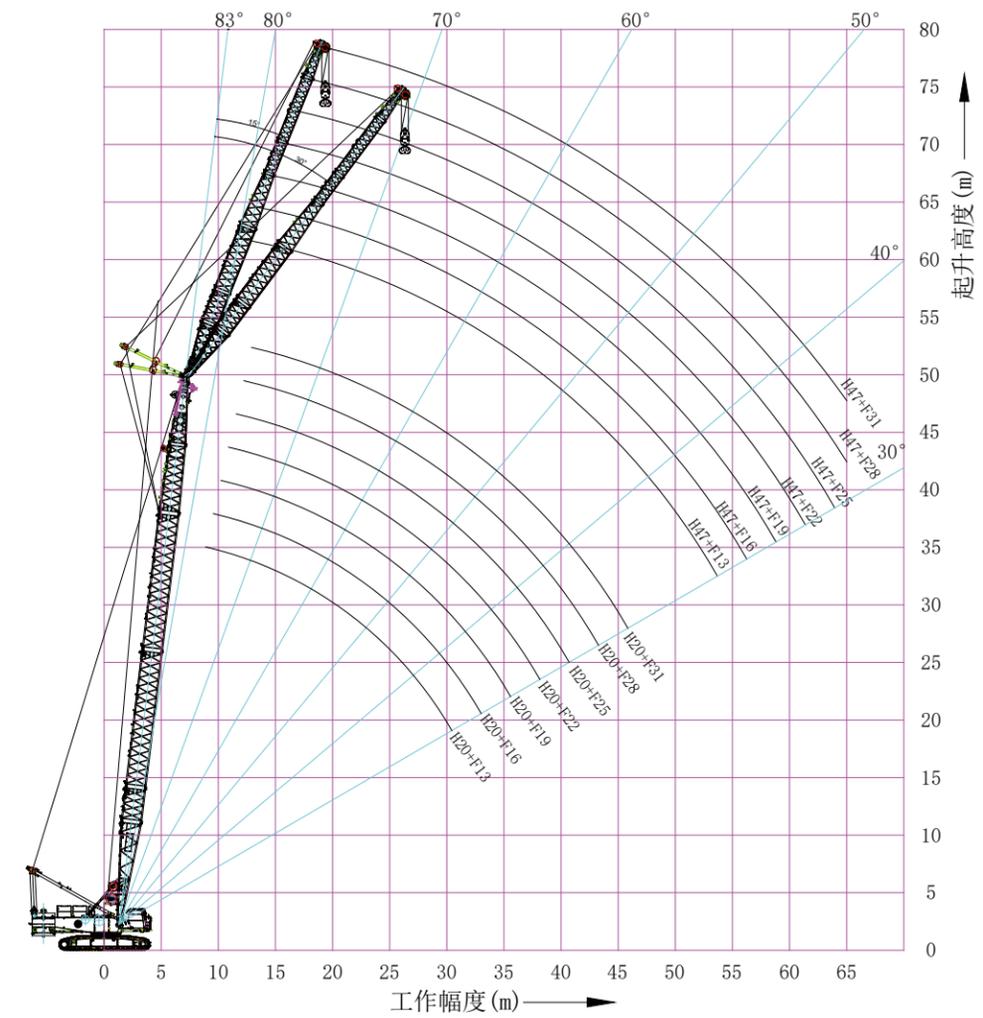
2.3 Boom (jib) raising table under fixed jib working condition (counterweight combination 48t+ 12t)

Tower jib \ Main boom	Main boom											
	HB20	HB23	HB26	HB29	HB32	HB35	HB38	HB41	HB44	HB47	HB50	HB53
F13	●	●	●	●	●	●	●	●	●	●	●	●
F16	●	●	●	●	●	●	●	●	●	●	●	●
F19	●	●	●	●	●	●	●	●	●	●	●	●
F22	●	●	●	●	●	●	●	●	●	●	●	●
F25	●	●	●	●	●	●	●	●	●	●	●	×
F28	●	●	●	●	●	●	●	●	●	●	●	×
F31	●	●	●	●	●	●	●	●	●	●	×	×

Notes:

1. When boom raising, place crawler drive roller at the rear of the crane.
2. “●” - boom can be raised; “×” - boom cannot be raised, this working condition cannot be used.
3. Main boom top section must without hook block. .
4. For the boom combination length of main boom and fixed jib exceeding 71m, the hook can be lifted off the ground only when the angle of the main boom is  $\geq 30^\circ$ ; Wedge assisted boom lifting is recommended to ensure safer boom raising/landing.

2.4 Working range of fixed jib working condition (HF)



Auxiliary hook working range without hook on main boom (HF/1) under fixed jib working condition

## Typical working conditions

### 2.5 Lifting performance of fixed jib working condition (HF)

#### Notes:

- 1.The actual lifting weight is the remained weight after the weights of hook, slings and wire ropes reeved on hook and boom (jib) head are subtracted from the rated lifting load in table.
- 2.The rated loads in the table are the lifted values when the loads are lifted slowly and stably in non-travelling state on plane and solid ground with the gradient no more than 1%.
- 3.The load values given in the table are the load hanging freely without consideration of the influence of wind load to the lifted load, the ground condition, gradient, operation speed and may other factors negatively impact on the safe operation of the crane. Thus, the operator is responsible for the current situation judgment, reducing the lifted load correspondingly and reducing the speed.
- 4.When the combination length of the main boom and fixed jib exceeds 71m, a wedge block is recommended to be used to raise the boom (jib).

#### A. Off-set angle of main boom and jib is 15°

Auxiliary hook, main boom 20~53m, Jib 13m, angle between main boom and jib 15°, without main hook												
Radius/m	Main boom length /m											
	20	23	26	29	32	35	38	41	44	47	50	53
10	45											
12	43.3	41.6	39.1	37.5	35.3	34.2						
14	40.9	38.4	36.1	34.7	32.7	31.8	31.1	30.6	30	29.5		
16	36	35.7	33.6	32.3	30.5	29.7	29.2	28.7	28.2	27.8	27.4	26.5
18	30.5	30.4	30.2	30	28.5	27.9	27.4	27	26.7	26.3	26	25.4
20	26.3	26.2	26	25.9	25.8	25.5	25.5	25.1	24.9	24.6	24.3	24
22	23	22.8	22.7	22.5	22.4	22.2	22.1	21.9	21.8	21.6	21.3	21
24	20.3	20.1	20	19.8	19.7	19.5	19.4	19.2	19.1	18.9	18.8	18.6
26	18.1	17.9	17.7	17.6	17.4	17.3	17.1	17	16.8	16.7	16.5	16.4
28	16.2	16	15.8	15.7	15.6	15.4	15.2	15.1	14.9	14.8	14.6	14.5
30	14.5	14.4	14.2	14	13.9	13.8	13.6	13.4	13.3	13.1	13	12.8
32	13.1	12.9	12.8	12.6	12.5	12.4	12.2	12	11.9	11.7	11.6	11.4
34		11.7	11.6	11.4	11.3	11.1	11	10.8	10.7	10.5	10.3	10.2
36			10.5	10.3	10.2	10.1	9.9	9.7	9.6	9.4	9.3	9.1
38				9.3	9.3	9.1	8.9	8.8	8.6	8.5	8.3	8.1
40				8.5	8.4	8.2	8.1	7.9	7.8	7.6	7.4	7.3
42					7.6	7.4	7.3	7.1	7	6.8	6.7	6.5
44						6.7	6.6	6.4	6.3	6.1	6	5.8
46							5.9	5.8	5.7	5.5	5.3	5.2
48								5.2	5.1	4.9	4.8	4.6
50								4.6	4.5	4.4	4.2	4
52									4	3.9	3.7	3.5
54										3.4	3.3	3.1
56											2.8	2.7
58											2.4	2.3
60												1.9
Counterweight	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12
Parts of line	4	4	4	4	4	4	3	3	3	3	2	2

Auxiliary hook, main boom 20~53m, Jib 19m, angle between main boom and jib 15°, without main hook												
Radius/m	Main boom length /m											
	20	23	26	29	32	35	38	41	44	47	50	53
14	25.5	25.9	26.2	26.4	26.5							
16	23.7	24.2	24.6	24.9	25	24.2	23.7	23.2	22.8			
18	22.2	22.7	23.1	23.5	23.3	22.7	22.2	21.8	21.5	21.1	20.8	20.5
20	20.8	21.4	21.8	22.3	21.9	21.4	21	20.6	20.3	20	19.7	19.5
22	19.6	20.2	20.7	21.1	20.7	20.2	19.8	19.5	19.3	19	18.8	18.5
24	18.5	19.1	19.7	20.1	19.6	19.1	18.8	18.6	18.3	18.1	17.9	17.7
26	17.5	18.1	18.3	18.1	18	17.8	17.7	17.5	17.4	17.3	17.1	16.9
28	16.6	16.5	16.4	16.2	16.1	15.9	15.8	15.6	15.5	15.3	15.2	15
30	15.1	14.9	14.8	14.6	14.5	14.3	14.1	14	13.8	13.7	13.5	13.4
32	13.7	13.5	13.4	13.2	13	12.9	12.7	12.5	12.4	12.2	12.1	11.9
34	12.5	12.3	12.1	11.9	11.8	11.6	11.5	11.3	11.2	11	10.8	10.7
36	11.4	11.2	11	10.8	10.7	10.5	10.4	10.2	10.1	9.9	9.7	9.6
38	10.4	10.2	10.1	9.9	9.8	9.6	9.4	9.2	9.1	8.9	8.8	8.6
40		9.3	9.2	9	8.9	8.7	8.5	8.4	8.2	8.1	7.9	7.7
42			8.4	8.2	8.1	7.9	7.8	7.6	7.4	7.3	7.1	6.9
44				7.5	7.4	7.2	7.1	6.9	6.7	6.6	6.4	6.2
46					6.7	6.6	6.4	6.2	6.1	5.9	5.8	5.6
48						6.1	6	5.8	5.6	5.5	5.3	5.2
50							5.4	5.3	5.1	5	4.8	4.6
52								4.7	4.6	4.5	4.3	4.1
54									4.1	4	3.8	3.5
56										3.7	3.6	3.4
58											3.1	3
60												2.6
62												2.4
64												2.1
66												1.9
Counterweight	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12
Parts of line	4	4	4	4	4	4	3	3	3	3	2	2

Typical working conditions

Auxiliary hook, main boom 20~50m, Jib 25m, angle between main boom and jib 15°, without main hook

Radius/m	Main boom length /m										
	20	23	26	29	32	35	38	41	44	47	50
16	18.8	19	19.2	19.4							
18	17.4	17.8	18	18.2	18.4	18.5	18.6	18.5	18.2		
20	16.2	16.6	16.9	17.2	17.4	17.5	17.7	17.5	17.2	16.9	16.6
22	15.2	15.6	15.9	16.2	16.5	16.7	16.8	16.5	16.2	16	15.8
24	14.2	14.7	15	15.4	15.6	15.9	15.9	15.7	15.4	15.2	15
26	13.3	13.8	14.2	14.6	14.9	15.1	15.1	14.9	14.7	14.5	14.3
28	12.6	13	13.4	13.8	14.1	14.4	14.4	14.2	14	13.8	13.7
30	11.8	12.3	12.7	13.1	13.5	13.8	13.7	13.5	13.4	13.2	13.1
32	11.2	11.7	12.1	12.5	12.8	13.1	12.9	12.7	12.6	12.4	12.3
34	10.6	11.1	11.5	11.9	12	11.8	11.7	11.5	11.4	11.2	11
36	10.1	10.6	11	11	10.9	10.7	10.6	10.4	10.2	10.1	9.9
38	9.7	10.1	10.3	10.1	9.9	9.8	9.6	9.4	9.3	9.1	8.9
40	9.3	9.6	9.4	9.2	9.1	8.9	8.7	8.5	8.4	8.2	8
42	8.9	8.8	8.6	8.4	8.3	8.1	7.9	7.7	7.6	7.4	7.3
44		8	7.9	7.7	7.6	7.4	7.2	7	6.9	6.7	6.5
46		7.4	7.2	7	6.9	6.7	6.6	6.4	6.2	6.1	5.9
48			6.6	6.4	6.3	6.1	6	5.8	5.6	5.5	5.3
50				5.9	5.8	5.6	5.4	5.2	5.1	4.9	4.7
52					5.2	5.1	4.9	4.7	4.6	4.4	4.2
54					4.8	4.6	4.4	4.3	4.1	3.9	3.8
56						4.1	4	3.8	3.7	3.5	3.3
58							3.6	3.4	3.3	3.1	2.9
60								3	2.9	2.7	2.5
62									2.5	2.4	2.2
64									2.2	2	1.9
Counterweight	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12
Parts of line	2	2	2	2	2	2	2	2	2	2	2

Auxiliary hook, main boom 20~47m, Jib 31m, angle between main boom and jib 15°, without main hook

Radius/m	Main boom length /m									
	20	23	26	29	32	35	38	41	44	47
18	13.8	14								
20	12.7	12.9	13.1	13.3	13.4	13.5	13.6			
22	11.7	12	12.2	12.4	12.6	12.7	12.8	12.9	13	13
24	10.9	11.2	11.4	11.6	11.8	12	12.1	12.2	12.3	12.4
26	10.1	10.4	10.7	10.9	11.1	11.3	11.5	11.6	11.7	11.8
28	9.5	9.8	10	10.3	10.5	10.7	10.9	11	11.2	11.3
30	8.8	9.2	9.4	9.7	9.9	10.1	10.3	10.5	10.6	10.8
32	8.3	8.6	8.9	9.2	9.4	9.6	9.8	10	10.2	10.3
34	7.8	8.1	8.4	8.7	8.9	9.2	9.4	9.5	9.7	9.9
36	7.3	7.7	7.9	8.2	8.5	8.7	8.9	9.1	9.3	9.5
38	6.9	7.2	7.5	7.8	8.1	8.3	8.5	8.7	8.9	9.1
40	6.5	6.9	7.2	7.4	7.7	7.9	8.1	8.4	8.5	8.4
42	6.2	6.5	6.8	7.1	7.3	7.6	7.8	7.9	7.7	7.5
44	5.9	6.2	6.5	6.8	7	7.2	7.3	7.1	7	6.8
46	5.6	5.9	6.2	6.5	6.7	6.8	6.7	6.5	6.3	6.2
48	5.4	5.6	5.9	6.2	6.4	6.2	6	5.9	5.7	5.5
50		5.4	5.7	5.9	5.9	5.7	5.5	5.3	5.2	5
52		5.2	5.4	5.5	5.3	5.2	5	4.8	4.7	4.5
54			5.2	5	4.9	4.7	4.5	4.3	4.2	4
56				4.5	4.4	4.2	4.1	3.9	3.7	3.6
58					4	3.8	3.7	3.5	3.3	3.1
60						3.6	3.4	3.3	3.1	2.9
62							3	2.9	2.7	2.6
64								2.5	2.4	2.2
66									2	1.9
Counterweight	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12
Parts of line	2	2	1	1	1	1	1	1	1	1

**Typical working conditions**

B、主Off-set angle of main boom and jib is 30

Auxiliary hook, main boom 20~53m, Jib 13m, angle between main boom and jib 30° , without main hook												
Radius/m	Main boom length /m											
	20	23	26	29	32	35	38	41	44	47	50	53
14	33.4	30.6	30.8									
16	31.1	28.9	29	27.6	25.8	24.9	24.2	23.7				
18	29	27.4	27.5	26.2	24.5	23.7	23.1	22.6	22.1	21.8	21.4	21
20	26.8	26.1	26.1	25	23.3	22.6	22.1	21.6	21.2	20.9	20.5	20.2
22	23.4	23.3	23.2	23.1	22.3	21.6	21.1	20.8	20.4	20.1	19.8	19.5
24	20.6	20.5	20.4	20.3	20.2	20.1	20	19.8	19.6	19.4	19.1	18.8
26	18.3	18.2	18.1	17.9	17.9	17.7	17.6	17.5	17.4	17.3	17.2	17
28	16.3	16.2	16.1	16	15.9	15.8	15.7	15.5	15.4	15.3	15.2	15
30	14.6	14.5	14.5	14.3	14.2	14.1	14	13.8	13.8	13.6	13.5	13.3
32	13.1	13.1	13	12.9	12.8	12.7	12.5	12.4	12.3	12.2	12	11.9
34		11.7	11.7	11.6	11.5	11.4	11.3	11.1	11	10.9	10.7	10.6
36			10.5	10.4	10.4	10.3	10.1	10	9.9	9.8	9.6	9.5
38				9.4	9.4	9.3	9.1	9	8.9	8.8	8.6	8.5
40				8.5	8.5	8.4	8.2	8.1	8	7.9	7.7	7.6
42					7.6	7.5	7.4	7.3	7.2	7.1	6.9	6.8
44						6.8	6.7	6.5	6.5	6.3	6.2	6
46							6	5.9	5.8	5.6	5.5	5.4
48							5.3	5.2	5.2	5	4.9	4.7
50								4.6	4.6	4.5	4.3	4.2
52									4.1	3.9	3.8	3.7
54										3.4	3.3	3.2
56											2.9	2.7
58											2.4	2.3
60												1.9
Counterweight	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12
Parts of line	4	3	3	3	2	2	2	2	2	2	2	2

Auxiliary hook, main boom 20~53m, Jib 19m, angle between main boom and jib 30° , without main hook												
Radius/m	Main boom length /m											
	20	23	26	29	32	35	38	41	44	47	50	53
18	19.1	19.3	19.5	19.6								
20	18.1	18.4	18.6	18.8	18.6	17.9	17.4	17	16.6			
22	17.2	17.5	17.8	18	17.7	17.1	16.6	16.3	15.9	15.7	15.4	15.1
24	16.4	16.7	17.1	17.3	16.9	16.4	16	15.6	15.3	15.1	14.8	14.6
26	15.7	16	16.4	16.7	16.2	15.7	15.3	15	14.8	14.5	14.3	14.1
28	15	15.4	15.8	16.1	15.6	15.1	14.8	14.5	14.2	14	13.8	13.6
30	14.5	14.9	15.2	15.1	15	14.6	14.3	14	13.8	13.6	13.4	13.2
32	14	13.8	13.7	13.6	13.5	13.4	13.3	13.1	13	12.9	12.8	12.7
34	12.7	12.6	12.4	12.3	12.2	12.1	12	11.8	11.7	11.6	11.5	11.3
36	11.5	11.4	11.3	11.2	11.1	10.9	10.8	10.7	10.6	10.4	10.3	10.2
38	10.4	10.4	10.3	10.1	10.1	9.9	9.8	9.7	9.6	9.4	9.3	9.1
40		9.4	9.3	9.2	9.1	9	8.9	8.7	8.6	8.5	8.4	8.2
42			8.5	8.4	8.3	8.2	8.1	7.9	7.8	7.7	7.5	7.4
44				7.6	7.5	7.4	7.3	7.2	7.1	6.9	6.8	6.6
46				6.8	6.8	6.7	6.6	6.5	6.4	6.2	6.1	5.9
48					6.2	6.1	6	5.8	5.7	5.6	5.5	5.3
50						5.5	5.4	5.2	5.2	5	4.9	4.7
52							4.8	4.7	4.6	4.5	4.4	4.2
54								4.3	4.2	4.1	4	3.9
56									3.7	3.6	3.5	3.4
58										3.2	3.1	3
60											2.6	2.5
62												2.1
62												2
Counterweight	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12
Parts of line	2	2	2	2	2	2	2	2	2	2	2	2

**Typical working conditions**

Auxiliary hook, main boom 20~50m, Jib 25m, angle between main boom and jib 30°, without main hook

Radius/m	Main boom length /m										
	20	23	26	29	32	35	38	41	44	47	50
22	13	13.1	13.3	13.4	13.5						
24	12.3	12.5	12.7	12.8	12.9	13	13.1	12.9	12.6	12.4	
26	11.7	11.9	12.1	12.2	12.4	12.5	12.6	12.4	12.1	11.9	11.7
28	11.1	11.4	11.6	11.7	11.9	12	12.1	11.9	11.7	11.5	11.3
30	10.6	10.9	11.1	11.3	11.5	11.6	11.7	11.5	11.3	11.1	10.9
32	10.2	10.4	10.7	10.9	11	11.2	11.3	11.1	10.9	10.7	10.5
34	9.8	10	10.3	10.5	10.7	10.9	10.9	10.7	10.5	10.3	10.2
36	9.4	9.7	9.9	10.1	10.3	10.5	10.6	10.4	10.2	10	9.9
38	9.1	9.4	9.6	9.8	10	10.2	10.2	10	9.9	9.7	9.6
40	8.9	9.1	9.3	9.5	9.5	9.4	9.2	9.1	9	8.9	8.7
42	8.7	8.9	8.9	8.8	8.7	8.5	8.4	8.3	8.1	8	7.9
44	8.3	8.2	8.1	8	7.9	7.8	7.6	7.5	7.4	7.2	7.1
46		7.5	7.4	7.3	7.2	7.1	6.9	6.8	6.7	6.5	6.4
48			6.7	6.6	6.6	6.4	6.3	6.1	6	5.9	5.8
50				6	6	5.8	5.7	5.6	5.5	5.3	5.2
52				5.4	5.4	5.3	5.2	5	4.9	4.8	4.6
54					4.8	4.7	4.6	4.5	4.4	4.3	4.1
56						4.2	4.1	4	3.9	3.8	3.7
58							3.7	3.6	3.5	3.3	3.2
60							3.2	3.1	3.1	2.9	2.8
62								2.7	2.6	2.5	2.4
64									2.3	2.1	2
Counterweight	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12
Parts of line	1	1	1	1	1	1	1	1	1	1	1

Auxiliary hook, main boom 20~47m, Jib 31m, angle between main boom and jib 30°, without main hook

Radius/m	Main boom length /m									
	20	23	26	29	32	35	38	41	44	47
26	8.6	8.7	8.8	8.9	8.9					
28	8.1	8.2	8.3	8.4	8.5	8.6	8.6	8.7	8.7	8.7
30	7.6	7.8	7.9	8	8.1	8.2	8.3	8.3	8.4	8.4
32	7.2	7.4	7.5	7.7	7.8	7.9	8	8	8.1	8.1
34	6.9	7	7.2	7.3	7.4	7.6	7.7	7.7	7.8	7.9
36	6.5	6.7	6.9	7	7.1	7.3	7.4	7.5	7.5	7.6
38	6.2	6.4	6.6	6.7	6.9	7	7.1	7.2	7.3	7.4
40	5.9	6.1	6.3	6.5	6.6	6.7	6.9	7	7.1	7.1
42	5.7	5.9	6.1	6.2	6.4	6.5	6.6	6.7	6.8	6.9
44	5.5	5.7	5.8	6	6.1	6.3	6.4	6.5	6.6	6.7
46	5.3	5.5	5.6	5.8	5.9	6.1	6.2	6.3	6.4	6.5
48	5.2	5.3	5.5	5.6	5.8	5.9	6	6.1	6.3	6.2
50	5.2	5.2	5.3	5.5	5.6	5.7	5.9	5.8	5.7	5.6
52		5.2	5.2	5.3	5.5	5.5	5.4	5.2	5.1	5
54			5.2	5.2	5.1	5	4.9	4.7	4.6	4.5
56				4.7	4.6	4.5	4.4	4.2	4.1	4
58					4.2	4.1	4	3.9	3.8	3.7
60						3.7	3.6	3.5	3.3	3.3
62							3.1	3.1	2.9	2.9
64								2.7	2.5	2.5
66									2.2	2.2
Counterweight	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12
Parts of line	1	1	1	1	1	1	1	1	1	1

## Typical working conditions

### 3. Tower jib working condition (optional)

#### 3.1 Main boom sections combinations under tower jib working condition

Name and quantity boom main combination	Boom butt 9m	Boom insert 3mA	Boom insert 6mA	Boom insert 12mA	Boom transition section 6m	Boom insert 3mB	Boom insert 6mB	Boom insert 12mB	Boom top section 5m
HB20	1	0	0	0	1	0	0	0	1
HB23	1	1	0	0	1	0	0	0	1
HB26	1	0	1	0	1	0	0	0	1
HB29	1	1	1	0	1	0	0	0	1
HB32	1	0	0	1	1	0	0	0	1
HB35	1	1	0	1	1	0	0	0	1
HB38	1	0	1	1	1	0	0	0	1
HB41	1	1	1	1	1	0	0	0	1
HB44	1	0	0	2	1	0	0	0	1
HB47	1	1	0	2	1	0	0	0	1
HB50	1	0	1	2	1	0	0	0	1

#### 3.2 Jib sections combinations under tower jib working condition

Name and quantity Jib length	Jib butt 5m	Jib insert 3mB	Jib insert 6mB	Jib insert 12mB	Jib transition 5m	Jib insert 3mC	Jib insert 6mC	Jib top section 3m
W22	1	1	1	0	1	0	0	1
W25	1	0	0	1	1	0	0	1
W28	1	1	0	1	1	0	0	1
W31	1	0	1	1	1	0	0	1
W34	1	1	1	1	1	0	0	1
W37	1	0	2	1	1	0	0	1
W40	1	1	2	1	1	0	0	1
*W43	1	1	2	1	1	1	0	1
*W46	1	1	2	1	1	0	1	1
*W49	1	1	1	1	1	1	1	1

Notes:

- Center hitch must be used for tower jib lengths with “\*”
  - Tower jib rear pendants must be installed for boom sections; tower jib guide pulley must be installed for boom transition section.
- When the combination length of the main boom and tower jib exceeds 71m, a wedge block is recommended to be used to raise the boom (jib).

#### 3.3 Boom (jib) raising table under tower jib working condition (HW) (counterweight combination 48t + 12t)

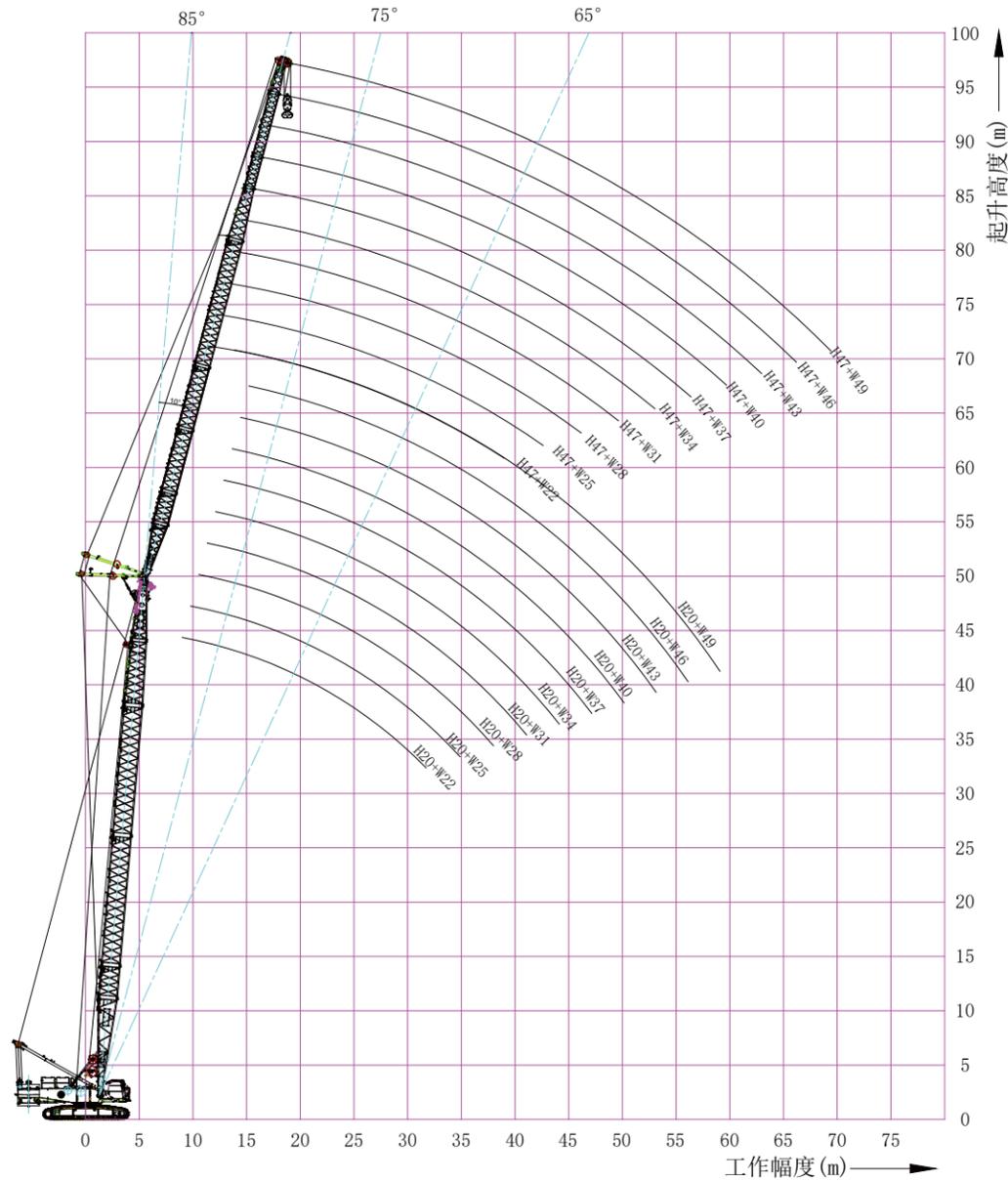
Main boom Tower jib	HB20	HB23	HB26	HB29	HB32	HB35	HB38	HB41	HB44	HB47	HB50
W22	●	●	●	●	●	●	●	●	●	●	●
W25	●	●	●	●	●	●	●	●	●	●	●
W28	●	●	●	●	●	●	●	●	●	●	●
W31	●	●	●	●	●	●	●	●	●	●	●
W34	●	●	●	●	●	●	●	●	●	●	●
W37	●	●	●	●	●	●	●	●	●	●	●
W40	●	●	●	●	●	●	●	●	●	●	●
*W43	●	●	●	●	●	●	●	●	●	●	×
*W46	●	●	●	●	●	●	●	●	●	●	×
*W49	●	●	●	●	●	●	●	●	●	●	×

Notes:

- When boom (jib) raising, place crawler drive roller at the rear of the crane.
- “●” - boom can be raised; “×” - boom cannot be raised, this working condition cannot be used.
- Boom lengths marked with “\*” need to use center hitch.
- When the combination length of the main boom and tower jib exceeds 71m, a wedge block is recommended to be used to raise the boom (jib) for safer boom raising/landing.

# Typical working conditions

## 3.4 Working range of tower jib working condition (HW)



Working range of tower jib main hook without boom (jib) single pulley (HW/1) under tower jib working condition

## 3.5 Lifting capacity of tower jib working condition (HW)

### Notes:

1. The actual lifting weight is the remained weight after the weights of hook, slings and wire ropes reeved on hook and boom (jib) head are subtracted from the rated lifting load in table.
2. The rated loads in the table are the lifted values when the loads are lifted slowly and stably in non-travelling state on plane and solid ground with the gradient no more than 1%.
3. The load values given in the table are the load hanging freely without consideration of the influence of wind load to the lifted load, the ground condition, gradient, operation speed and may other factors negatively impact on the safe operation of the crane. Thus, the operator is responsible for the current situation judgment, reducing the lifted load correspondingly and reducing the speed.
4. When tower jib length exceeds 40m, center hitch must be used; When the combination length of the main boom and tower jib exceeds 71m, a wedge block is recommended to be used to raise the boom (jib).
5. Tower jib top section without tower jib single pulley.

### A. Main boom working angle 85°

main boom 20m, main boom working angle 85°, without tower jib single pulley

Radius/m	Tower jib length/m										Radius/m
	22	25	28	31	34	37	40	43	46	49	
11	45										11
12	41.1	40.5									12
13	36.7	36.2	35.7								13
14	33.1	32.7	32.2	31.9							14
15	30.1	29.8	29.4	29.1	28.2						15
16	27.6	27.3	26.9	26.4	25.6	24.8					16
17	25.4	25.2	24.7	24	23.3	22.7	22				17
18	23.5	23.1	22.5	22	21.4	20.8	20.2	14.3	15.3		18
19	21.5	21.2	20.7	20.2	19.7	19.2	18.6	13.2	14.1	13	19
20	19.7	19.5	19.1	18.7	18.2	17.7	17.2	12.2	13.1	12.7	20
22	16.6	16.7	16.4	16.1	15.7	15.3	14.9	10.5	11.3	11.8	22
24	13.9	14.4	14.3	14	13.7	13.4	13	9.1	9.9	10.3	24
26		12.4	12.4	12.3	12.1	11.8	11.5	7.9	8.7	9.1	26
28			10.9	10.9	10.7	10.5	10.2	6.9	7.7	8	28
30			9.4	9.6	9.5	9.3	9.1	6	6.8	7.1	30
32				8.5	8.4	8.3	8.1	5.2	6	6.3	32
34					7.5	7.4	7.3	4.5	5.3	5.6	34
36					6.6	6.6	6.5	3.8	4.7	5	36
38						5.9	5.8	3.3	4.1	4.4	38
40							5.2	2.8	3.5	3.9	40
42							4.6	2.3	3	3.5	42
44								1.8	2.4	3	44
46									1.9	2.6	46
48										2.1	48
50										1.6	50
Counterweight	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	Counterweight
Parts of line	4	4	4	3	3	2	2	2	2	1	Parts of line

Typical working conditions

main boom 29m, main boom working angle 85°, without tower jib single pulley											
Radius/m	Tower jib length/m										Radius/m
	22	25	28	31	34	37	40	43	46	49	
12	39.7										12
13	37	36.1									13
14	34.6	33.9	33								14
15	32.5	31.9	31	30.2							15
16	30.1	29.9	29.3	28.3	27.4	25.2					16
17	27.5	27.4	26.5	25.7	24.9	24.2	22.8				17
18	25.3	25	24.2	23.5	22.8	22.1	21.5	15.2			18
19	23.3	22.9	22.2	21.6	21	20.4	19.8	14	15		19
20	21.3	21	20.5	19.9	19.4	18.8	18.3	13	13.9	12.8	20
22	18	18	17.6	17.2	16.7	16.3	15.8	11.2	12	12.1	22
24	15.3	15.5	15.3	15	14.6	14.2	13.8	9.7	10.5	10.9	24
26		13.4	13.3	13.1	12.8	12.5	12.1	8.5	9.2	9.6	26
28		11.5	11.7	11.6	11.4	11.1	10.8	7.4	8.1	8.5	28
30			10.2	10.3	10.1	9.9	9.6	6.4	7.2	7.5	30
32				9.1	9	8.8	8.6	5.6	6.4	6.7	32
34				8	8	7.9	7.7	4.9	5.7	6	34
36					7.1	7.1	6.9	4.2	5.1	5.3	36
38						6.3	6.2	3.6	4.5	4.7	38
40							5.6	3.1	3.9	4.2	40
42							5	2.6	3.4	3.8	42
44								2.1	2.8	3.3	44
46									2.3	2.9	46
48									1.7	2.5	48
50										2	50
Counterweight	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	Counterweight
Parts of line	4	4	4	3	3	2	2	2	2	1	Parts of line

main boom 38m, main boom working angle 85°, without tower jib single pulley											
Radius/m	Tower jib length/m										Radius/m
	22	25	28	31	34	37	40	43	46	49	
13	37.3										13
14	35.1	34.2	31.3								14
15	33.2	32.4	31.1	28.1							15
16	31.4	30.7	29.8	28	25.3						16
17	29.5	29.1	28.1	27.2	25.2	22.9					17
18	27.1	26.5	25.6	24.8	24	22.8	20.8				18
19	24.8	24.2	23.4	22.7	22	21.3	20.6	14.8			19
20	22.7	22.2	21.6	20.9	20.3	19.7	19.1	13.7	14.6		20
22	19.2	19	18.5	18	17.5	17	16.4	11.8	12.6	12.2	22
24	16.3	16.4	16	15.6	15.2	14.8	14.3	10.2	11	11.4	24
26	13.8	14.2	14	13.7	13.4	13	12.6	8.9	9.7	10	26
28		12.3	12.3	12.1	11.8	11.5	11.2	7.8	8.5	8.9	28
30			10.8	10.8	10.5	10.3	10	6.8	7.6	7.9	30
32			9.4	9.6	9.4	9.2	8.9	6	6.7	7	32
34				8.5	8.4	8.3	8	5.2	6	6.3	34
36					7.5	7.4	7.2	4.5	5.3	5.6	36
38						6.7	6.5	3.9	4.7	5	38
40						5.9	5.9	3.4	4.2	4.5	40
42							5.2	2.9	3.6	4	42
44								2.4	3.1	3.5	44
46								1.9	2.6	3.1	46
48									2	2.7	48
50										2.2	50
52										1.8	52
Counterweight	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	Counterweight
Parts of line	4	4	3	3	2	2	2	2	2	1	Parts of line

Typical working conditions

main boom 47m, main boom working angle 85°, without tower jib single pulley											
Radius/m	Tower jib length/m										Radius/m
	22	25	28	31	34	37	40	43	46	49	
13	32.7										13
14	31.4	29.8									14
15	30.2	28.8	27								15
16	29	27.6	25.9	24.2							16
17	27.5	26.3	24.8	23.3	21.7						17
18	25.9	24.9	23.6	22.3	21	19.6					18
19	24.4	23.5	22.5	21.4	20.2	19	17.7				19
20	22.9	22.2	21.3	20.4	19.4	18.3	17.2	14.3			20
22	20.1	19.7	19.2	18.5	17.7	16.9	16	12.3	13.2	12.3	22
24	17.3	17.1	16.7	16.3	15.8	15.3	14.8	10.7	11.5	11.7	24
26	14.7	14.9	14.6	14.3	13.9	13.5	13	9.3	10.1	10.5	26
28		13	12.9	12.6	12.3	11.9	11.6	8.2	8.9	9.2	28
30			11.3	11.2	10.9	10.6	10.3	7.2	7.9	8.2	30
32			10	10	9.8	9.5	9.2	6.3	7	7.3	32
34				8.9	8.8	8.6	8.3	5.5	6.3	6.5	34
36					7.8	7.7	7.5	4.8	5.6	5.8	36
38					7	6.9	6.8	4.2	5	5.2	38
40						6.2	6.1	3.6	4.4	4.7	40
42							5.5	3.1	3.9	4.2	42
44							4.9	2.6	3.3	3.7	44
46								2.1	2.8	3.3	46
48									2.3	2.9	48
50									1.7	2.5	50
52										2	52
Counterweight	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	Counterweight
Parts of line	3	3	3	2	2	2	2	2	1	1	Parts of line

B. Main boom working angle 75°

main boom 20m, main boom working angle 75°, without tower jib single pulley											
Radius/m	Tower jib length/m										Radius/m
	22	25	28	31	34	37	40	43	46	49	
18	31										18
19	28.9										19
20	26.6	26.3									20
22	22.8	22.6	22	21.4							22
24	19.5	19.3	18.8	18.3	17.8						24
26	16.5	16.6	16.3	15.9	15.5	15.1					26
28	13.9	14.3	14.2	13.9	13.6	13.3	12.9	9.2			28
30		12.4	12.4	12.3	12	11.7	11.4	8	8.8		30
32			10.9	10.9	10.7	10.4	10.1	7	7.7	8.1	32
34			9.5	9.6	9.5	9.3	9.1	6.1	6.9	7.2	34
36				8.5	8.5	8.4	8.1	5.3	6.1	6.4	36
38					7.6	7.5	7.3	4.6	5.4	5.7	38
40						6.7	6.6	4	4.8	5.1	40
42						6	5.9	3.4	4.3	4.5	42
44							5.3	2.9	3.7	4	44
46								2.4	3.2	3.6	46
48								1.9	2.6	3.2	48
50									2.1	2.7	50
52										2.3	52
54										1.8	54
Counterweight	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	Counterweight
Parts of line	3	2	2	2	2	2	1	1	1	1	Parts of line

Typical working conditions

main boom 29m, main boom working angle 75°, without tower jib single pulley											
Radius/m	Tower jib length/m										Radius/m
	22	25	28	31	34	37	40	43	46	49	
20	26.1										20
22	23.2	23.1									22
24	20.8	20.7	20.5								24
26	18.8	18.8	18.5	18.4	18.1						26
28	17.1	17.1	16.7	16.3	15.8	15.4					28
30	14.6	14.9	14.6	14.3	13.9	13.5	13.1	9.4			30
32		12.9	12.9	12.7	12.3	12	11.6	8.2	9		32
34			11.3	11.2	11	10.7	10.4	7.2	7.9	8.3	34
36			9.9	10	9.8	9.6	9.3	6.3	7.1	7.4	36
38				8.9	8.8	8.6	8.4	5.5	6.3	6.6	38
40					7.9	7.8	7.5	4.8	5.6	5.9	40
42					7	7	6.8	4.2	5	5.3	42
44						6.2	6.1	3.6	4.5	4.7	44
46							5.5	3.1	3.9	4.2	46
48							4.9	2.6	3.4	3.7	48
50								2.2	2.9	3.3	50
52									2.4	2.9	52
54										2.5	54
56										2.1	56
Counterweight	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	Counterweight
Parts of line	2	2	2	2	2	2	1	1	1	1	Parts of line

main boom 38m, main boom working angle 75°, without tower jib single pulley											
Radius/m	Tower jib length/m										Radius/m
	22	25	28	31	34	37	40	43	46	49	
24	19.9	19.8									24
26	18	17.9	17.7								26
28	16.4	16.3	16.1	15.9	15.7						28
30	15	15	14.7	14.6	14.3	14.1					30
32	13.8	13.8	13.6	13.4	13.2	13	12.8				32
34		12.8	12.5	12.4	12.2	12	11.7	8.4	9.1		34
36			11.6	11.4	11.1	10.8	10.5	7.4	8.1	8.4	36
38			10.2	10.2	10	9.7	9.4	6.5	7.2	7.5	38
40				9.1	8.9	8.7	8.5	5.7	6.4	6.7	40
42					8	7.9	7.6	5	5.7	6	42
44					7.2	7.1	6.9	4.3	5.1	5.4	44
46						6.4	6.2	3.8	4.6	4.8	46
48							5.6	3.2	4.1	4.3	48
50							5	2.7	3.5	3.8	50
52								2.3	3	3.4	52
54									2.5	3	54
56									2	2.6	56
58										2.2	58
Counterweight	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	Counterweight
Parts of line	2	2	2	2	2	2	1	1	1	1	Parts of line

Typical working conditions

main boom 47m, main boom working angle 75°, without tower jib single pulley

Radius/m	Tower jib length/m										Radius/m
	22	25	28	31	34	37	40	43	46	49	
26	17										26
28	15.5	15.4	15.2								28
30	14.2	14.1	13.9	13.7							30
32	13.1	13	12.8	12.6	12.3	12.1					32
34	12.1	12	11.8	11.6	11.4	11.2	10.9				34
36		11.2	11	10.8	10.5	10.4	10.1	8.5	9.2		36
38		10.4	10.2	10	9.8	9.6	9.4	7.5	8.2	8.5	38
40			9.5	9.4	9.1	9	8.7	6.6	7.3	7.6	40
42				8.7	8.5	8.4	8.1	5.8	6.5	6.8	42
44					8	7.8	7.6	5.1	5.8	6.1	44
46					7.3	7.2	7	4.4	5.2	5.4	46
48						6.5	6.3	3.9	4.7	4.9	48
50							5.7	3.3	4.1	4.4	50
52							5.1	2.8	3.6	3.9	52
54								2.4	3.1	3.5	54
56									2.6	3.1	56
58									2.1	2.7	58
60										2.3	60
Counterweight	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	Counterweight
Parts of line	2	2	2	2	2	2	1	1	1	1	Parts of line

C.Main boom working angle 65°

main boom 20m, main boom working angle 65°, without tower jib single pulley

Radius/m	Tower jib length/m										Radius/m
	22	25	28	31	34	37	40	43	46	49	
26	18.5										26
28	16.8	16.8	16.6								28
30	15.4	15.4	15.2	15							30
32		14.1	13.9	13.6	13.3						32
34		12.2	12.3	12.1	11.8	11.5					34
36			10.8	10.8	10.5	10.3	10				36
38				9.6	9.4	9.2	8.9	6.1			38
40				8.5	8.4	8.3	8.1	5.3	6.1		40
42					7.5	7.5	7.3	4.7	5.4	5.7	42
44						6.7	6.6	4	4.9	5.1	44
46						6	5.9	3.5	4.3	4.6	46
48							5.3	3	3.8	4.1	48
50								2.5	3.3	3.6	50
52									2.8	3.2	52
54									2.2	2.8	54
56										2.4	56
Counterweight	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	Counterweight
Parts of line	2	2	2	2	1	1	1	1	1	1	Parts of line

Typical working conditions

main boom 29m, main boom working angle 65°, without tower jib single pulley											
Radius/m	Tower jib length/m										Radius/m
	22	25	28	31	34	37	40	43	46	49	
30	14.4	14.3									30
32	13.2	13.2	12.9								32
34	12.2	12.2	12	11.8							34
36		11.3	11.1	10.9	10.7						36
38		10.5	10.3	10.2	9.9	9.7					38
40			9.6	9.5	9.2	9.1	8.8				40
42				8.9	8.6	8.5	8.2	6.1			42
44				8.3	8.1	7.9	7.7	5.4	6.1		44
46					7.6	7.4	7.2	4.7	5.4	5.7	46
48						6.7	6.6	4.1	4.9	5.1	48
50						6	5.9	3.5	4.3	4.6	50
52							5.4	3	3.9	4.1	52
54								2.6	3.4	3.7	54
56									2.9	3.3	56
58									2.3	2.9	58
60										2.5	60
Counterweight	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	Counterweight
Parts of line	2	2	1	1	1	1	1	1	1	1	Parts of line

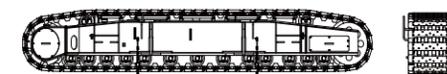
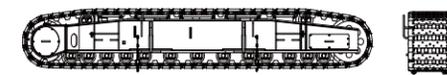
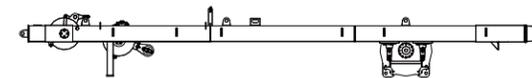
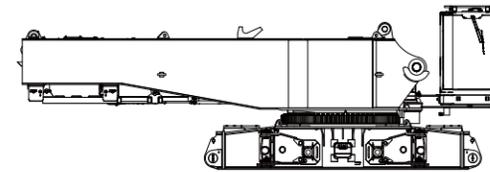
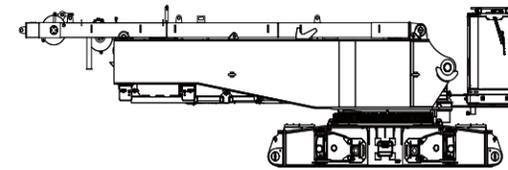
main boom 38m, main boom working angle 65°, without tower jib single pulley											
Radius/m	Tower jib length/m										Radius/m
	22	25	28	31	34	37	40	43	46	49	
32	12.1										32
34	11.2	11.1									34
36	10.4	10.3	10.1								36
38	9.7	9.6	9.4	9.2							38
40		9	8.7	8.5	8.3						40
42		8.4	8.2	8	7.7	7.5					42
44			7.6	7.5	7.2	7	6.8				44
46				7	6.8	6.6	6.3	6			46
48				6.6	6.3	6.2	5.9	5.3	5.7		48
50					6	5.8	5.6	4.6	5.4	5.3	50
52						5.4	5.2	4	4.8	4.9	52
54							4.9	3.5	4.3	4.5	54
56								4.6	3	3.8	56
58									2.6	3.4	58
60										2.9	60
62										2.4	62
64											64
Counterweight	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	Counterweight
Parts of line	1	1	1	1	1	1	1	1	1	1	Parts of line

## Typical working conditions

## Parameters of main transporting components

main boom 47m, main boom working angle 65°, without tower jib single pulley

Radius/m	Tower jib length/m										Radius/m
	22	25	28	31	34	37	40	43	46	49	
36	9.2										36
38	8.6	8.5									38
40	8	7.9	7.6								40
42	7.5	7.4	7.1	6.9							42
44		6.9	6.7	6.5	6.2						44
46		6.5	6.3	6.1	5.8	5.6					46
48			5.9	5.7	5.4	5.2	5				48
50				5.3	5.1	4.9	4.6	4.5			50
52					4.8	4.6	4.3	4.2	4.1		52
54					4.5	4.3	4	3.9	3.9	3.7	54
56						4	3.8	3.7	3.6	3.5	56
58							3.5	3.4	3.4	3.2	58
60							3.3	3	3.1	3	60
62								2.5	2.9	2.8	62
64									2.7	2.6	64
66									2.3	2.4	66
68										2.3	68
Counterweight	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	48+12	Counterweight
Parts of line	1	1	1	1	1	1	1	1	1	1	Parts of line



### Basic machine transport plan A ×1

L (m)	11.0 mm
W (m)	3.0 mm
H (m)	3.2 mm
W (t)	33.7 t

### Basic machine transport plan B (optional) ×1

L (m)	9.8 mm
W (m)	3.0 mm
H (m)	3.2 mm
W (t)	30.0 t

### Mast independent transport part (optional) ×1

L (m)	8.7 mm
W (m)	1.8 mm
H (m)	1.3 mm
W (t)	3.7 t

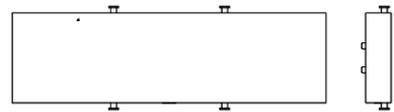
### Left track frame ×1

L (m)	8.0 mm
W (m)	1.2 mm
H (m)	1.3 mm
W (t)	13.3 t

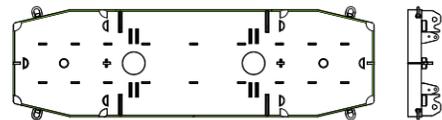
### Right track frame ×1

L (m)	8.0 mm
W (m)	1.2 mm
H (m)	1.3 mm
W (t)	13.3 t

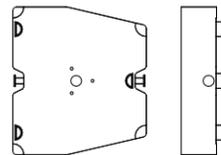
## Parameters of main transporting components



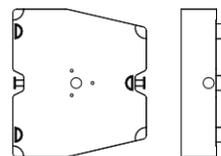
Car-body counterweight slab ×2	
L (m)	4.7 mm
W (m)	1.2 mm
H (m)	0.6 mm
W (t)	6 t



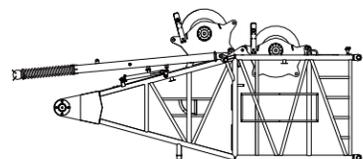
Turntable counterweight tray ×1	
L (m)	6.8 mm
W (m)	2.0 mm
H (m)	0.6 mm
W (t)	15.0 t



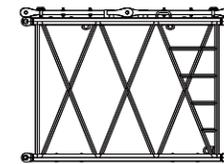
Turntable counterweight block I ×4	
L (m)	1.8 mm
W (m)	2.0 mm
H (m)	0.6 mm
W (t)	5.0 t



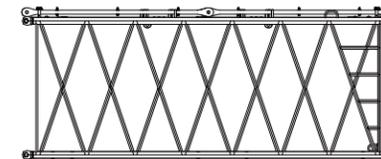
Turntable counterweight block II ×2	
L (m)	1.8 mm
W (m)	2.0 mm
H (m)	0.9 mm
W (t)	6.5 t



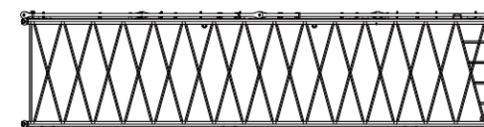
Boom butt ×1	
L (m)	9.7 mm
W (m)	3.0 mm
H (m)	2.0 mm
W (t)	6.6 t



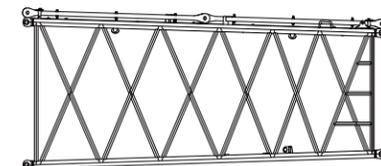
3mA section ×1	
L (m)	3.2 mm
W (m)	2.2 mm
H (m)	2.0 mm
W (t)	0.6 t



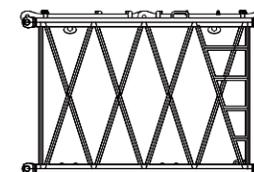
6mA section ×1	
L (m)	6.2 mm
W (m)	2.2 mm
H (m)	2.0 mm
W (t)	1.0 t



12mA section ×2	
L (m)	12.2 mm
W (m)	2.2 mm
H (m)	2.0 mm
W (t)	1.7 t

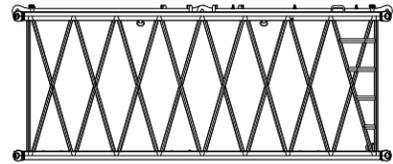


Main boom 6m transition section ×1	
L (m)	6.2 mm
W (m)	2.3 mm
H (m)	2.0 mm
W (t)	1.3 t

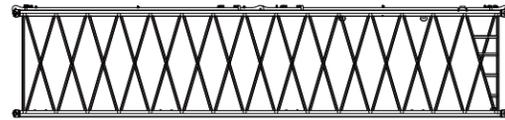


3mB section ×1	
L (m)	3.2 mm
W (m)	1.8 mm
H (m)	1.6 mm
W (t)	0.5 t

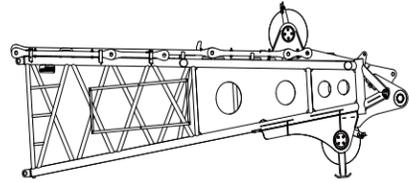
## Parameters of main transporting components



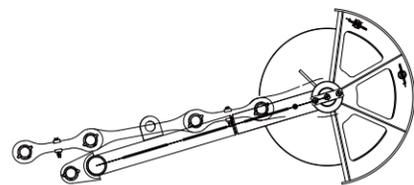
6mB section	×2
L (m)	6.2 mm
W (m)	1.8 mm
H (m)	1.6 mm
W (t)	0.8 t



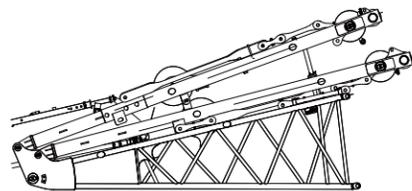
12mB section	×1
L (m)	12.2 mm
W (m)	1.8 mm
H (m)	1.6 mm
W (t)	1.4 t



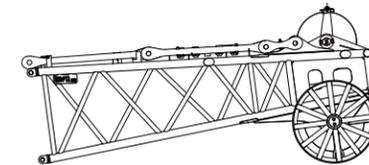
Boom top section	×1
L (m)	6.3 mm
W (m)	2.3 mm
H (m)	2.2 mm
W (t)	2.7 t



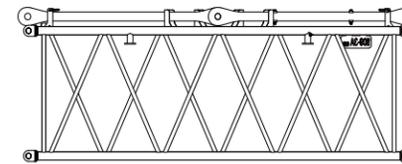
Boom single pulley	×1
L (m)	1.8 mm
W (m)	1.16 mm
H (m)	0.8 mm
W (t)	0.2 t



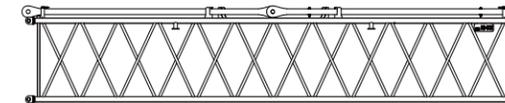
Tower arm three piece set	×1
L (m)	7.0 mm
W (m)	2.0 mm
H (m)	2.9 mm
W (t)	3.0 t



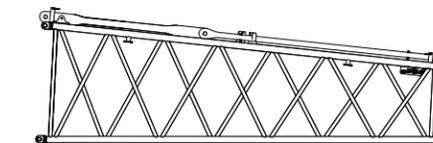
Tower jib top section	×1
L (m)	3.7 mm
W (m)	1.2 mm
H (m)	1.6 mm
W (t)	0.8 t



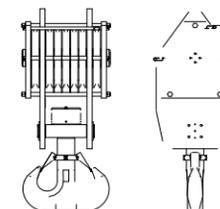
3mC section	×1
L (m)	3.2 mm
W (m)	1.2 mm
H (m)	1.1 mm
W (t)	0.25 t



6mC section	×1
L (m)	6.2 mm
W (m)	1.2 mm
H (m)	1.1 mm
W (t)	0.41 t

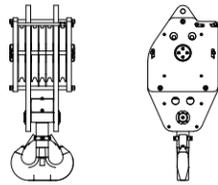


Fixed (tower) jib transition section	×1
L (m)	5.2 mm
W (m)	1.8 mm
H (m)	1.7 mm
W (t)	0.53 t

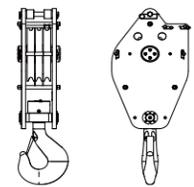


130t lifting hook assembly	×1
L (m)	0.91 mm
W (m)	0.76 mm
H (m)	1.93 mm
W (t)	2.0 t

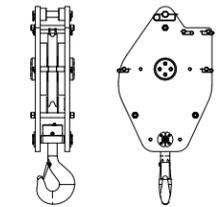
## Parameters of main transporting components



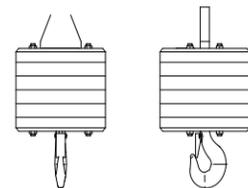
100t lifting hook assembly	×1
L(m)	0.71 mm
W(m)	0.76 mm
H(m)	1.9 mm
W(t)	1.67 t



80t lifting hook assembly	×1
L(m)	0.42 mm
W(m)	0.76 mm
H(m)	2.0 mm
W(t)	0.96 t



32t lifting hook assembly	×1
L(m)	0.36 mm
W(m)	0.76 mm
H(m)	1.63 mm
W(t)	0.73 t



13.5t lifting hook assembly	×1
L(m)	0.485 mm
W(m)	0.485 mm
H(m)	0.787 mm
W(t)	0.50 t

### Notes:

- 1.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.
- 2.Slight difference is ineluctable during product manufacture, and dimension and weight of some parts are variable due to continuous improvement in products.
- 3.Various pendants are easy confused, so before transportation, customers should make marks on corresponding pendants.