Introduction on the Highlights of XLC150A (Singapore) Crawler Crane

- Complete working conditions and strong lifting performance: standard main boom (can be equipped with a single pulley) + heavy-duty fixed jib +tower jib (can be equipped with a single pulley) working conditions, with additional optional light-duty fixed jib working condition; The comprehensive performance of the main boom and tower jib working conditions are excellent, with a comprehensive performance of about 6% higher for medium and long tower jib working condition. The maximum lifting capacity of the fixed jib is industry-leading, and the fixed jib is equipped with heavy-duty and light-duty these two, forming a high and low range, which can meet the different needs of large lifting capacity and long boom combinations.
- Good adaptability to the site: a slewing radius of 6.4m, meeting the needs of lifting operations in narrow spaces; Large chassis, more stable; Optional graded counterweights and turntable counterweights have a ground clearance of 1.47m, which is the highest in the industry and meet construction scenarios such as trestle bridge that require equipment weight and space.
- Excellent disassembly and assembly efficiency: The basic crane can be transported with a boom butt, without the need for disassembly and assembly; A-frame can be lifted by an oil cylinder; Optional boom butt auxiliary lifting function, achieving self-disassembly and assembly of track beams; Optional counterweight self-disassembly function; car-body is connected to the track frame, turntable is connected to the self-disassembling counterweight device through a power pin, which is convenient and fast.
- Very high work efficiency: using a large flow main pump, the lifting, slewing, and luffing speeds are at the forefront of the industry. Confluence does not slow down, with the highest traveling speed in the industry, and the highest efficiency in short distance transitions.
- Economical and convenient operation: The transportation weight of basic crane with boom butt is 35.3 tons, which can meet the transportation needs of a 1m trailer. Boom structure has a high degree of standardization, with the least number of transportation components of main boom + heavy-duty fixed jib + tower jib, with a full set of working conditions; At the same time, the standard section of boom frame can meet the requirements of triple insertion transportation, saving 1-2 trailer compared to products of the same tonnage in the industry; Matching and optimizing the overall crane weight

combination, surpassing peers by up to 22t, saving transportation costs of about 6600 Yuan per thousand kilometers; The transportation weight of the whole machine with full working conditions is better than that of peers by more than 10 tons, saving transportation costs of about 3000 Yuan per thousand kilometers;

- Convenient maintenance: the whole vehicle has smooth access, and guardrails and handrails are arranged throughout the whole process, which improves safety; Engine triple filters, oil dipstick, water tank observation point, and winch grease filling point are all arranged on the side of the engine shed, without the need to climb onto the shed, making it convenient for users to conduct daily inspections and vehicle maintenance.
- Intelligent safety and comfort: the cab has a wide field of vision, integrated button design, increased legroom, and is equipped with a rest table; 12 inch large touch display, supporting facial recognition and voice recognition; Adopting an electronic control system, with high control accuracy and good micro motion, suitable for parameter adjustment in various scenarios, supporting later intelligent function upgrading and expansion; Configure the "virtual wall" anti-collision function; Automatic switching of "forward" driving; Equipped with one key hoisting (optional), one key slewing, one key luffing, and one key height setting (optional) functions; Automatic switching of big/small hook with handle; Wireless remote control operation for undercarriage and superstructure.
- Full coverage of monitoring system: Cameras are installed in front, rear, right rear, boom head, and all winches of the turntable to monitor the overall status in real-time from all angles.

XLC150A (Singapore model) Crawler Crane Technical Specification

Crawler crane model: XLC150A (Singapore)

Max. rated lifting capacity: 150t

Maximum lifting moment: 876t.m

I. Product profile

1. Boom combinations

The boom sections of the XLC150A multi-functional crawler crane are large cross-section, thick wall, and large-diameter, high-strength seamless steel pipe as the boom chords and web tubes, supplemented by high-strength steel plates welded in sections to form a four chord spatial lattice structure with equal cross-section in the middle and variable cross-section at both ends. When the crane is configured with full working conditions(main boom working condition, tower jib working condition, heavy-duty fixed jib working condition), boom system includes boom butt 1×8m, boom transition section 1×6m, boom top 1×5m, tower (fixed) jib butt 1×5m, tower (fixed) jib transition section 1×5m, tower (fixed) jib top 1×3m, front strut 1×5.5m,rear strut 1×5.5m, boom single top, 3m insert section (1×3mA, 1×3mB and 2×3mC), 6m insert section (1×6mA, 2×6mB and 1×6mC), 12m insert section (2×12mA, 1×12mB).The above standard sections have a high degree of standardization and can be used across different working conditions. The optimal number of boom sections is available for all working conditions. Standard sections A, B, and C can be transported in insertion sets. Besides, there are light duty jib butt 1×6m, light duty jib top section 1×7m, light duty fixed jib strut 4.5m, 6m light duty fixed jib insert section 3×6mD, the top section and standard section are universal with that of XGC150-IA.

Maximum lifting capacity under main boom working condition is 150t@5m (12 parts of line), maximum lifting moment 146t×6m=876t.m. Boom length 19m~76m, boom composition: boom butt 1×8m, boom transition section 1×6m, boom top 1×5m, boom insert 1×3mA and 2×3mB, boom insert 1×6mA and 1×6mB, boom insert 2×12mA and 1×12mB. Main boom is optionally configured with boom single pulley. When equipped with tower jib working condition configuration, the middle section of the 76m main boom length combination with a length of 2 × 3mB can be replaced by a middle section with a length of 1 × 6mB.

The maximum lifting capacity under heavy-duty fixed jib working condition is

50t@12m(4 parts of line). Fixed jib length 13m～31m, composition: jib butt 1×5m, (tower)jib transition section 1×5m, jib top 1×3m, jib insert 1×3mB and 1×3mC, jib insert 1×6mB and 1×6mC, strut 1×5.5m.

The maximum lifting capacity under light-duty fixed jib working condition (optional) is 25t@12m(2 parts of line). Fixed jib length 13m～31m, composition: light-duty jib butt 1×6m, light-duty jib top section 1×7m, 6m light duty fixed jib insert section 3×6m, strut 1×4.5m.

The maximum lifting capacity under tower jib working condition is 45t@11m(4 parts of line). Tower jib length:22m～52m, composition: tower jib butt 1×5m, (tower) jib transition section 1×5m, tower jib top section 1×3m, tower jib insert 1×3mB and 2×3mC, insert sections 2×6mB and 1×6mC, insert sections 1×12mB, front strut 1×5.5m, rear strut 1×5.5m. Tower jib is optionally configured with tower jib single top.

Optional main boom butt auxiliary lifting function, making disassembly and assembly of tracks more convenient.

2. Boom luffing components

Boom luffing component is made of high-strength pendant structure, with high safety factor. Pendant transition adopts balance beam structure with uniform stress; single pendant is equipped with “peach”-shaped connecting hole, the assembly is convenient, labor-saving and efficient.

3. A-frame

Gantry is a double-limb structure, with reinforced beam between the two limbs,with good stability. The main structure of the A-frame is made of high-strength structural steel, with a high safety factor. There are high and low two states of A-frame, it is erected for working and laid down for transportation. The mast jacking cylinder rotates around the connection hinge point of the turntable for mast self-erection and lowering.

4. Turntable

Turntable is the key load bearing structure to connect superstructure and undercarriage, The main load-bearing structure is a double-sided "I" shaped beam box frame composite structure welded with high-strength steel plates, side panels are set at both sides, which can be connected to undercarriage through slewing bearings, main hoisting, auxiliary hoisting, main luffing mechanism, A-frame, boom butt, superstructure counterweight are arranged on the main force bearing structure; cab, engine system, hydraulic tank, fuel tank, hydraulic pump groups, hydraulic valve, electric cabinet and hydraulic oil radiator are arranged on side panels at both sides; Turntable main structure and side panels of both sides are designed

according to the force bearing of the whole crane, with reasonable structure, good overall strength and stiffness.

5. Mechanism composition

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

No.	Mechanism name	Function	Position
1	Main hoisting system	Used for main hook in main boom, boom single top, heavy-duty fixed jib (include double hook) working conditions, light duty fixed jib (with double hook)（optional），tower jib, tower jib with single top;	Front part of turntable
2	Aux. hoisting system	Used for aux. hook in boom single top, heavy duty fixed jib(with double hook) working condition, and light duty fixed jib(with double hook)(optional), tower jib single top working conditions	Middle part of turntable
3	Boom luffing system	Boom luffing	Tail part of turntable
4	Tower jib luffing mechanism	In tower jib, tower jib with boom end pulley working conditions, used as tower jib luffing winch	Boom butt
5	Slewing gear	Used for superstructure slewing	Front of turntable
6	Traveling mechanism	Used for crane travel	Crawler track drive sprocket

6. Hoist system

Hoisting mechanism includes main lifting mechanism and auxiliary lifting mechanism.

The lifting mechanism is a planetary gear reducer driven by a motor, which achieves the lifting and lowering of the main hook or auxiliary hook through the drum, guide pulley, and lifting pulley group. Increase the lifting speed of the main and auxiliary lifting mechanisms through a large displacement pump.

Main hoisting winch and auxiliary hoisting winch have a built-in planetary reducer, with constant closed brake to achieve “spring braking/hydraulic release” function, safe and reliable.

The drum is made of ductile cast iron with double folding line multi-layer winding drum, which has good vibration absorption and ensures that the wire rope is not messed up by multi-layer winding, which effectively prolongs the service life of the wire rope.

The hoisting mechanism uses special anti-rotation steel wire rope with independent steel core, high breaking tension and high resistance to extrusion, the rated single rope tension is

13.5t, and the diameter of the steel wire rope is φ 26 mm, with main, auxiliary, and single pulley lifting ropes of 350m and 250m respectively.

7. Luffing system

The luffing mechanism includes main luffing mechanism and tower jib luffing mechanism.

Main luffing is installed at the middle part of turntable by pin shaft, planetary gear reducer is driven by fixed displacement motor, so as to achieve boom luffing by drum and luffing pulley block.

Main luffing winch has built-in planetary reducer, with constant closed brake to achieve “spring braking/hydraulic release” function, safe and reliable.

The main luffing drum has a ratchet locking device, and the pawl is driven by hydraulic cylinder to achieve multiple lock for protection.

The main luffing drum is made of ductile iron and is a double fold multi-layer winding single drum, which has good vibration absorption and ensures that the multi-layer winding of the steel wire rope is not disordered, effectively extending the service life of the steel wire rope.

The main luffing mechanism adopts independent steel core and high breaking force steel wire rope, with diameter of steel wire rope φ20mm, length 230m.

The tower jib luffing mechanism is installed at the bottom section of the main boom, there is a ratchet locking device, and the pawl is driven by hydraulic cylinder to achieve multiple lock for protection. independent steel core and high breaking force steel wire rope is used, with diameter of steel wire rope φ20mm, length 210m.

8. Slewing mechanism

The slewing mechanism and slewing bearing are driven by external meshing, arranged in the front of the turntable, and driven by a motor driven planetary gear reducer to achieve 360 ° rotation.

The slewing gear has built-in planetary reducer, with normally-closed brake to achieve “spring brake/ hydraulic release” function, so as to ensure the high braking safety of the system.

The slewing mechanism has a mechanical slewing locking device to realize the locking protection of slewing mechanism.

The slewing gear has free sliding function.

9. Slewing bearing

Adopting elliptical raceway double row ball type slewing bearing, it has high strength, large bearing moment, high accuracy, long service life, and convenient maintenance.

10. Oil cylinder assembly

The connection between the frame and the track beam is achieved through a power pin driven by an oil cylinder;

Main boom luffing/tower jib luffing ratchet lock cylinder is used to control the movement of ratchet pawl. When operating main boom luffing/tower jib luffing pilot handle, the pawl will open automatically, and when main boom luffing/tower jib luffing pilot handle returns to the neutral position, the pawl will close automatically. When boom luffing/tower jib luffing winch is not working, the ratchet lock device is always in the locked state, no need of any manual operation, which is safe and convenient.

A-frame raising cylinder, outrigger cylinder, and track tensioning oil cylinder make installation and disassembly more convenient;

The cab is equipped with oil cylinders to achieve the pitch of cab.

11. Operator’s cab

Operator’s cab modeling uses bionic design method, with smooth lines without losing a sense of power. Cab has a larger glass area, side glass has more reasonable partition, more technological sense, and wider field of vision. The cab can be tilted up, equipped with adjustable seats that can be tilted back 140°, and equipped with a rotating display screen. The visual area of the display screen is distributed within the best range of vision, with increased legroom and internal space. It is equipped with a rest table, air conditioning, power sockets, radio, etc. The interior is arranged with a human centered approach, and the control handle and various buttons comply with ergonomics, providing a comfortable operating environment for the operator.

Upgraded 12 inch large touch display in the cab, supporting facial recognition and voice recognition, with a stronger sense of technology.

12. Car-body

Car-body is radial box structure, welded by high strength steel plate, with features of good rigidity and high strength.

13. Crawler travel unit

Crawler travel unit is divided into left and right travel gears, consists of track frame, track shoe, track roller, drive sprocket, idle roller, carrier roller, travel unit and tension device.

Track frame: symmetrically arranged at the left and right sides, each side 1 piece. The box shaped structure welded with high-strength steel plates, with parallel pad iron for car-body installation and positioning, has good guiding and wear resistance effects.

Drive sprocket: it is connected on planetary reducer housing with high-strength bolts.

Bearing roller: double-flange design, with built-in floating seals, self-lubrication.

Tension roller: The rollers are used to adjust crawler tightness through cylinder and tensioning device.

The upper rollers: The rollers have built-in floating seals, self-lubrication.

Track shoe: installed on crawler beam.

Travel unit: constant closed planetary gear reducer with strong travel power and high flexibility and mobility. It has wet type multi-disc constant closed brake, spring brake, and hydraulic release.

14. Hydraulic system

Hydraulic system composition: winch hoist system, slewing system, travel system, pilot control system, radiation system, auxiliary system, etc.

Winch hoisting system and travel system: high-pressure and large displacement main pump, electric proportional positive flow control, combined with integral main valve, safe and reliable, precise speed, sensitive operation, good micro motion, and able to achieve composite operation of multiple actions.

Slewing system: high pressure closed slewing system, stable start and stop, strong resistance to load changes and interference, good fine motion, infinite speed regulation, meeting the requirements of fine lifting operations.

Heat dissipation system: independent oil dispersion drive, high-power fin type inner core air-cooled heat exchanger.

Auxiliary system: optional rear counterweight self-dis/assembly, for more efficient assembly and disassembly.

Hydraulic oil tank: with a capacity of 500L, equipped with multiple major flow filtration, and convenient maintenance.

15. Electrical system

The entire vehicle control system has been upgraded to a fully electronic control system, with controller upgrades, a fully CAN bus electronic control handle, and an electronic two-way foot pedal.

The electrical system mainly includes the following parts: engine control, auxiliary

equipment, hydraulic system control, load moment indicator, and safety monitoring, data display, etc.

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

Conventional electrical system includes power supply, start control, cab air conditioner and radio, illumination (light), wipers and etc.

PLC monitoring system includes the control of main and auxiliary winches, slewing, boom luffing, and the monitoring of engine state.

All actions are controlled by PLC logic using CAN-bus bus technology.

16. Engine system

Model: Weichai WP8G350E302

Type: in-line water-cooled, turbocharged, electronic injection and environmentally friendly diesel engine;

Environmental protection: meet national off-road Stage III/EURO Stage IIIA emission standards;

Rated power: 257kw/2100rpm;

Max. output torque: 1428N.m;

Fuel tank capacity: about 400L.

Counterweight

The counterweight is made up of car-body counterweight and turntable counterweight.

The car-body counterweight is 8t in total, the car-body counterweight can be disassembled and assembled by the pulley group on boom butt, and the car-body counterweight is installed in front and behind the track frame. It is composed as follows: car-body counterweight 2×4t.

There are two kinds of turntable counterweights available: 62t, 52t. In order to meet different lifting requirements, the design provides individual performance tables according to the graded counterweight, working conditions are more practical and economical, convenient and quick. In addition, depending on the optimum weight used, it can also save customers more transportation costs and purchase costs.

Turntable counterweights are installed behind the turntable. The optional turntable counterweights consist of:

(1) Turntable counterweight 62t: Counterweight tray 1×12t, turntable counterweight 4×10t+2×5t.

(2) Turntable weight 52t: Counterweight tray 1×12t, turntable counterweight 4×10t.

18. Hook block

The configuration of hook blocks is as follows:

Hook nominal load	150t (optional)	100t (optional)	80t	32t (optional)	13.5t
Number of pulley	7	5	3	1	0
Hook weight (t)	2.2	1.69	0.96	0.73	0.5
Qty.	1	1	1	1	1

Notes:

1) If the hook configuration with optional words is required in the table, the agreed terms must be specified in the contract;

2) If there are special needs other than those listed in the above table, be sure to contact our company to confirm, ensure that the choice of hook can be used properly.

II. Safety protection measures

This crane widely uses mechanical, electronic, hydraulic and other safety and warning devices to ensure the safe use of the machine. The safety devices include: load moment indicator, slewing locking device, boom backstop device, hoist limit switch, boom angle limiter, anemometer, level gauge, camera, slewing warning, travel warning and hydraulic system relief valve, balance valve, hydraulic lock, and etc.

1. Mode switch

Assembly mode & working mode selection switch in assembly mode, over-wind protection device, boom angle limiter and load moment limiter are all out of service, in order to facilitate crane assembly.

In working mode, all safety devices do work.

2. Emergency stop

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

3. Mis-operation protection function

The handles have mis-operation prevention function. A safety protection switch is set in front of the handle. If the switch is not pressed, all movement signals are shielded, and the handle will not work, thus to prevent operation error.

4. Rope over-wind protection function

Rope over-winded protection devices are set on boom head to prevent the rope from being over-wound. When hoisting to a certain height, the over-wind indicator light on display will turn on, at the same time, the movement of hoisting up will be stopped automatically.

5. Rope over-release protection function

An encoder is set on hoist winches as rope end limiter to prevent wire rope from over-releasing. When there are only three loops of rope left on drum, the over-release indicator light on display will turn on, at the same time, the movement of lowering down will be stopped automatically.

6. Ratchet locking function

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

7. Slewing locking function

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

8. Backstop function

Equipped with backstop devices for the main boom and jib bracket to prevent the boom and bracket from tilting back.

9. Boom angle limiting function

When boom is raised to a specified angle, boom raising is stopped under the dual control of load moment indicator and travel limit switch. When boom angle is less than the specified value, boom lowering is stopped under the control of load moment indicator and gives a warning sound.

10. Hook latch

All hook blocks are equipped with hook latch to prevent the hanging rope on the hook head from falling.

11. Hydraulic system safety protection

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

12. Load moment indicator system

Detection function: LMI can automatically detect parameters such as boom angle and lifting weight.

Display function: Large color screen touch-screen LCD (10.4 inch). Display 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, information code, etc. in Chinese (or English) and graphical format.

Warning function: with complete pre-alarm and overload stop function. If it is detected that the actual weight exceeds the rated lifting capacity or boom angle exceeds the maximum value, LMI will send alarm and limit the current movement of the crane.

The system has self-diagnosis function.

13. Sound and light alarm

With three-color light and sound alarm, it can show the load and status of crane movements to warn the driver and the person around.

14. Illumination light

There are illumination lights in front of turntable, above the cab or in the cab.

15. Rear-review mirror

It is located outside the cab, so that the driver can easily observe the situation behind the machine.

16. Height mark lamp

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

17. Anemometer

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

18. Level gauge

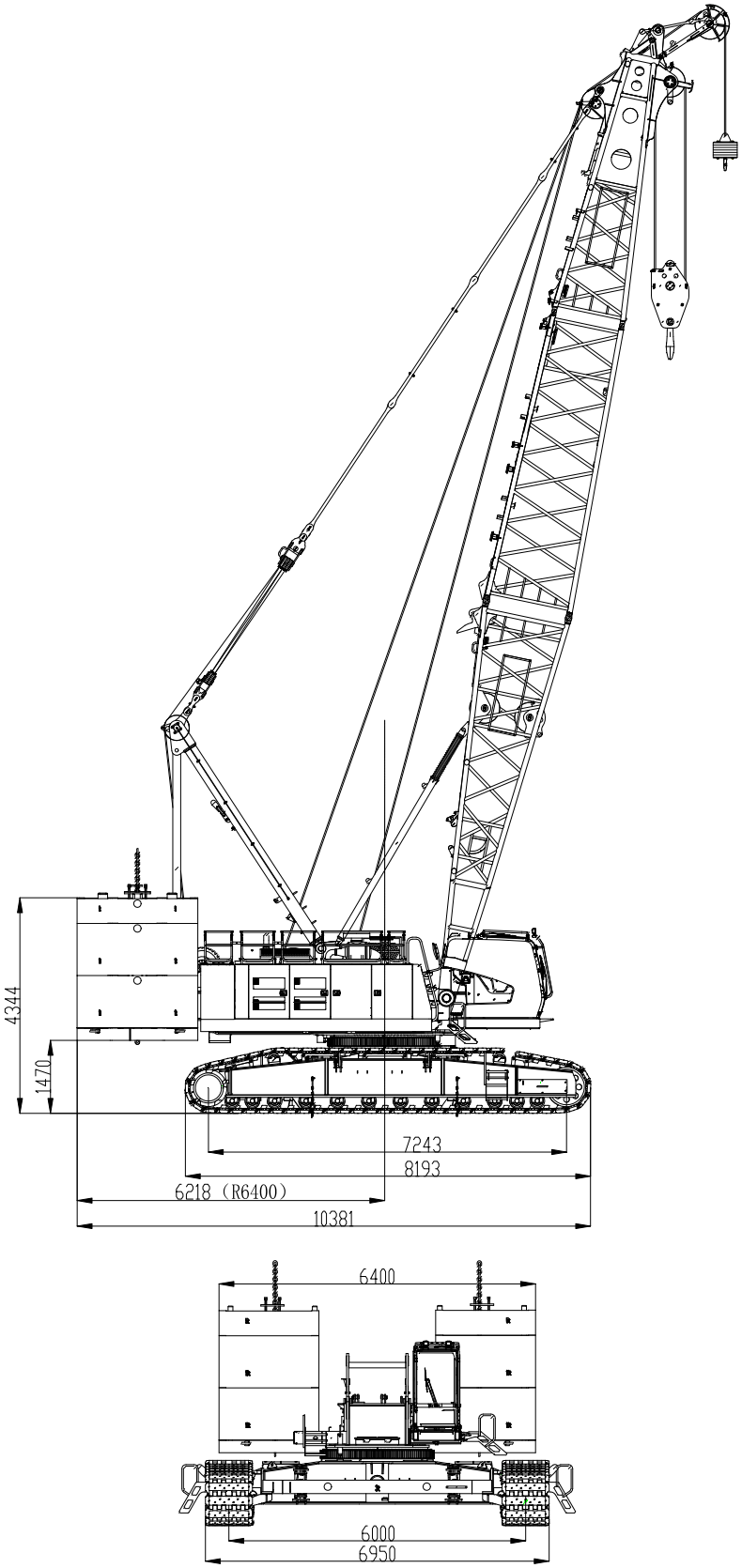
It is equipped with electronic (optional) and mechanical level meters, which can show the ground gradient and provide reference for the operator.

19. Monitoring system

Composed of seven cameras and one monitor, it is used to monitor the safety situation in front of, behind, and on the right side of the turntable, monitor the rope arrangement of the main and auxiliary hoisting winches on the turntable, and that of the main luffing winch, and that of tower jib winch on main boom butt. At the same time, a zoom camera is installed on boom head to achieve comprehensive monitoring of the vehicle status.

III. Main parameters

1. Overall dimension of the crane



XLC150A (Singapore) CRAWLER CRANE

2. Main technical parameters

Item		Unit	value
Max. rated lifting capacity	Boom working condition	t	*150
	Boom single top working condition	t	13.5
	Heavy-duty fixed jib working condition	t	50
	Light-duty fixed jib working condition (optional)	t	25
	Tower jib working condition	t	45
Max. lifting moment		t.m	*876
Dimension	Boom length	m	19～76
	Fixed jib length	m	13～31
	Combination of Max. boom + Max. heavy-duty fixed jib	m	52+31
	Combination of Max. boom + Max. light-duty fixed jib (optional)	m	64+31
	Tower jib length	m	22～52
	Main boom length in tower jib working condition	m	19～52
	Longest combination of main boom + tower jib	m	49+52/52+37
Speed parameters	Hoist winch max. single line speed	m/min	153
	Max. single line speed for boom luffing	m/min	80
	Tower jib luffing winch max. single line speed	m/min	75
	Max. slewing speed	rpm	1.2
	Max. travel speed	km/h	1.3
Engine	Rated net power	kW	257
	Emission standard	-	National off-road stage III/ EU Stage IIIA
*Overall crane weight (19m boom, 80t hook, 52t turntable counterweight, 8t car-body counterweight)		t	*128
*Average ground pressure (19m boom, 80t hook, 52t turntable counterweight, 8t car-body counterweight)		MPa	*0.095
Grade ability		-	30%
Max. weight of single piece in transport state		t	35.3
Maximum single-piece transport dimensions (L×W×H)		m	16.22×3.38×3.31

Notes:

1. Single line speed is the calculated value of the rope on the drum outermost layer with engine idle running, which changes according to different load and working conditions.
2. Travel speed, grade ability, mean ground pressure and slewing speed are the theoretical values for the crane based on level and solid ground and crane weight 128t.
3. The data marked with * are parameters based on land conditions, 52t turntable counterweight, and 8t

car-body counterweight; the remaining data are based on parameters of land conditions, 62t turntable counterweight, and 8t car-body counterweight.

4. We reserve the right to improve and update the technical specifications without notice.

IV. Typical Working Conditions

1. Working Conditions

6 types, 12 working condition combinations

Boom combinations in different working conditions

No.	Name of working conditions	Working condition code	Combination length (m)
1	Boom working condition	HB	HB(19～76)
2	Boom single top working condition	HBS	HB(19～76)+S1.2
3	Heavy-duty fixed jib working condition	HF	HB(19～52)+FJ(13～31)
4	Light-duty fixed jib working condition (optional)	LF	HB(28～64)+FJ(13～31)
5	Tower jib working condition	HW	HB(19～52)+W(22～52)
6	Tower jib + single pulley working condition	HWS	HB(19～49)+W(22～52)+S1.2 HB52+HW(22～37)+S1.2

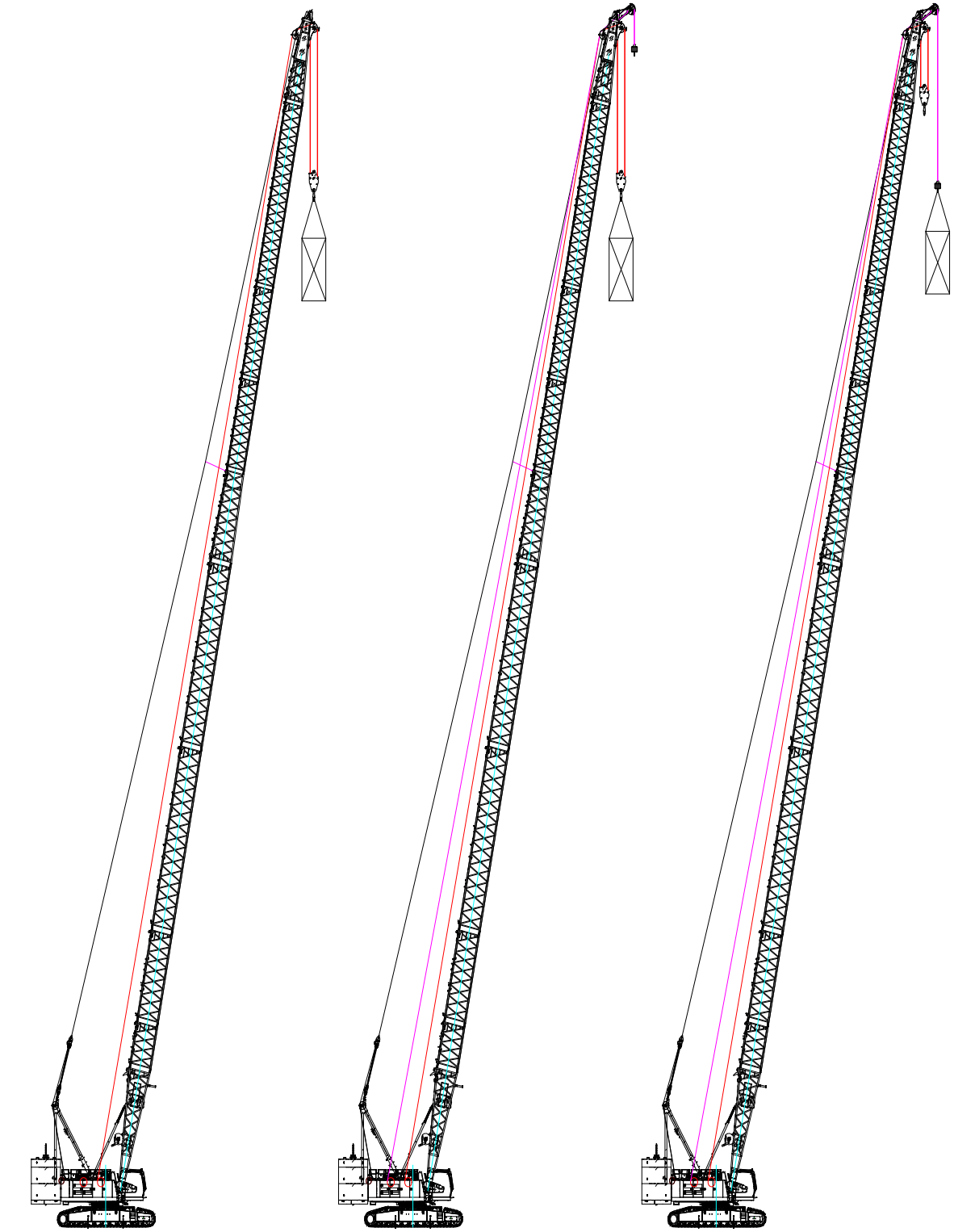


Fig.5-001 combinations of boom working conditions (a)

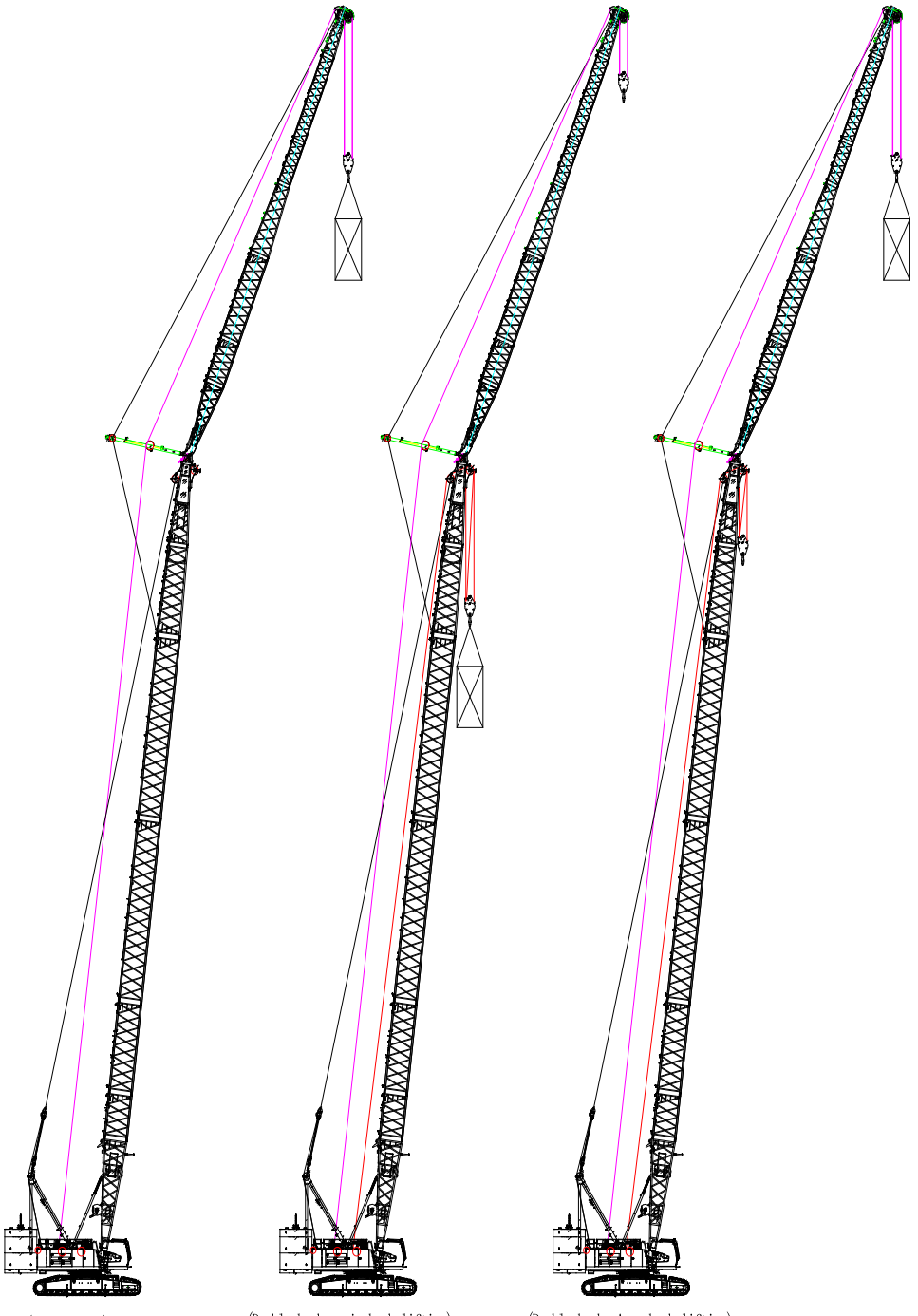


Fig.5-001 combinations of boom working conditions (b)

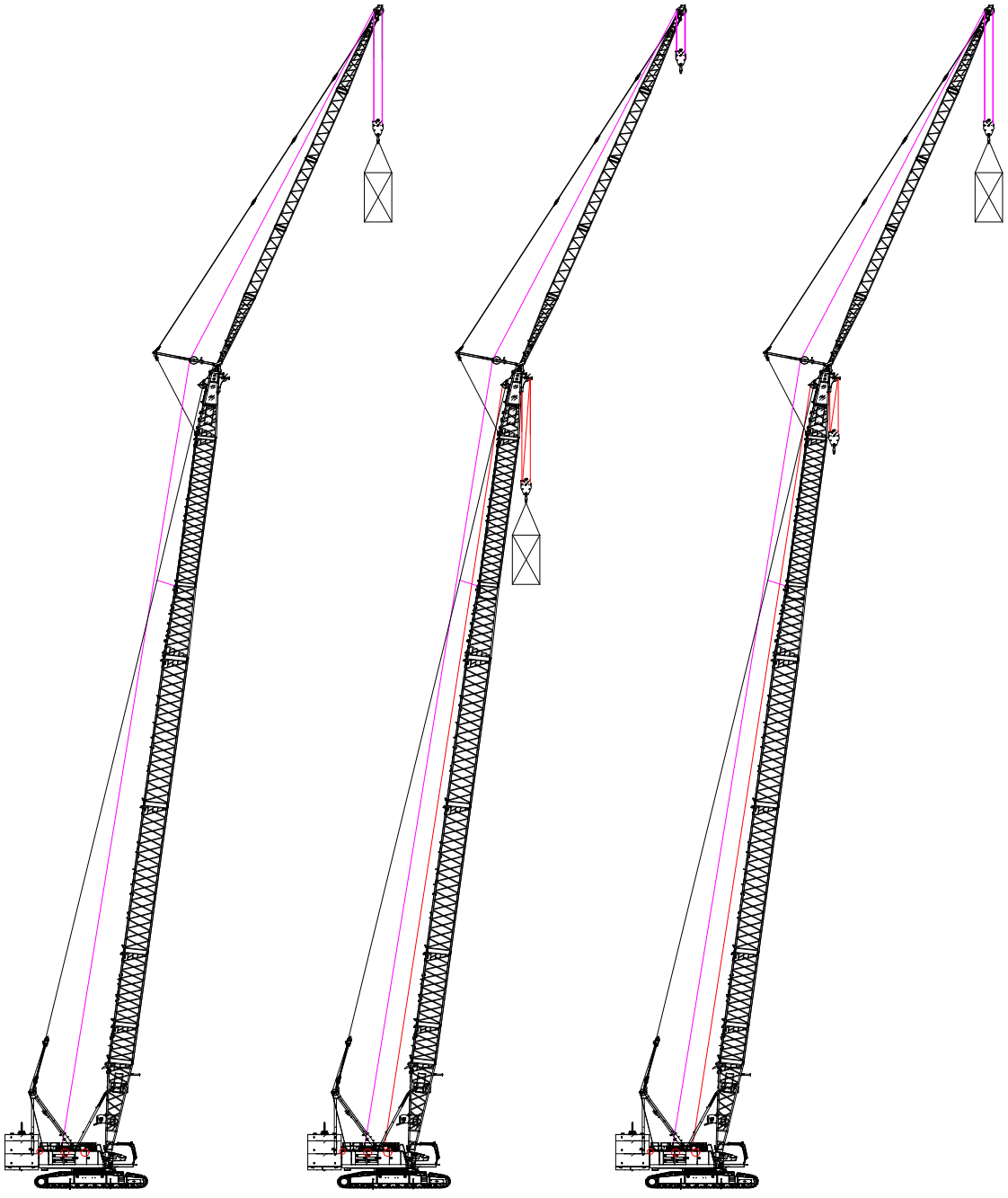
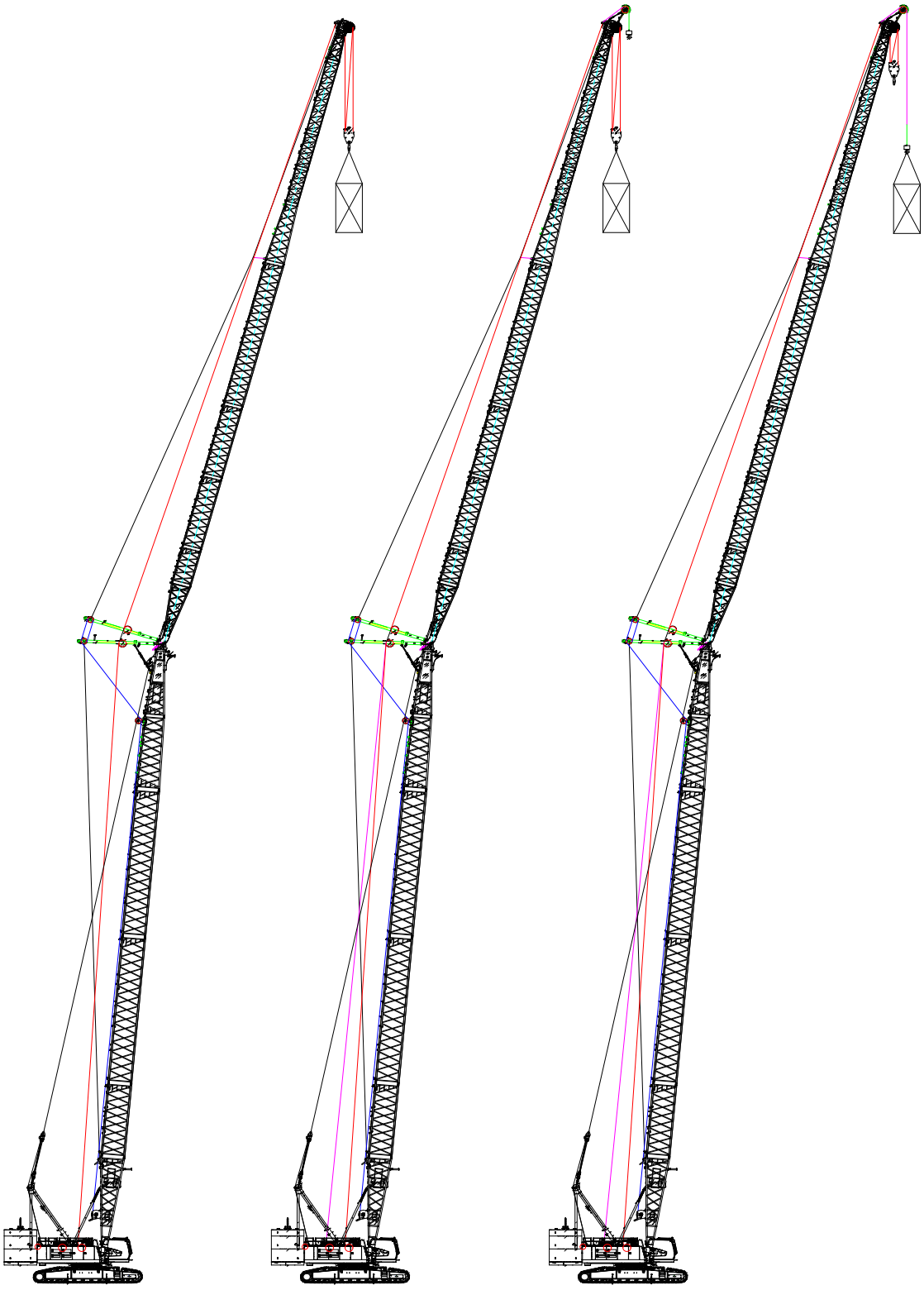


Fig.5-001 combinations of boom working conditions (c)



(Single hook)

Tower jib working condition(HW)

(Double hook, main hook lifting)

(Double hook, aux. hook lifting)

Tower jib +boom end single pulley working condition(HWS)

Fig.5-001 combinations of boom working conditions (d)

2. Main boom working condition (HB)

2.1 Boom combinations in HB working condition – without boom single top

Boom (HB) combinations – without boom single top

Name / Boom length	Boom butt 8m	boom insert 3 mA per segment	boom insert 6 mA per segment	boom insert 12 mA per segment	6m boom transition section	boom insert 3mB section	boom insert 6mB section	boom insert 12mB section	boom top section 5m
HB19	1	0	0	0	1	0	0	0	1
HB22	1	1	0	0	1	0	0	0	1
HB25	1	0	1	0	1	0	0	0	1
HB28	1	1	1	0	1	0	0	0	1
HB31	1	0	0	1	1	0	0	0	1
HB34	1	1	0	1	1	0	0	0	1
HB37	1	0	1	1	1	0	0	0	1
HB40	1	1	1	1	1	0	0	0	1
HB43	1	0	0	2	1	0	0	0	1
HB46	1	1	0	2	1	0	0	0	1
HB49	1	0	1	2	1	0	0	0	1
HB52	1	1	1	2	1	0	0	0	1
*HB55	1	1	1	2	1	1	0	0	1
*HB58	1	1	1	2	1	0	1	0	1
*HB61	1	1	1	2	1	1	1	0	1
*HB64	1	1	1	2	1	0	0	1	1
*HB67	1	1	1	2	1	1	0	1	1
*HB70	1	1	1	2	1	0	1	1	1
*HB73	1	1	1	2	1	1	1	1	1
*Hb76(plan I)	1	1	1	2	1	2	1	1	1
*Hb76(plan(II))	1	1	1	2	1	0	2	1	1

Notes: 1. "*" main boom combination requires a center hitch.
2. Tower jib rear pendant need to be removed from boom sections. Tower jib/fixed jib guide pulley needs to be removed from boom transition section.
3. There are two options for the combination of the main boom length of 76m, which can be selected according to the purchase configuration.

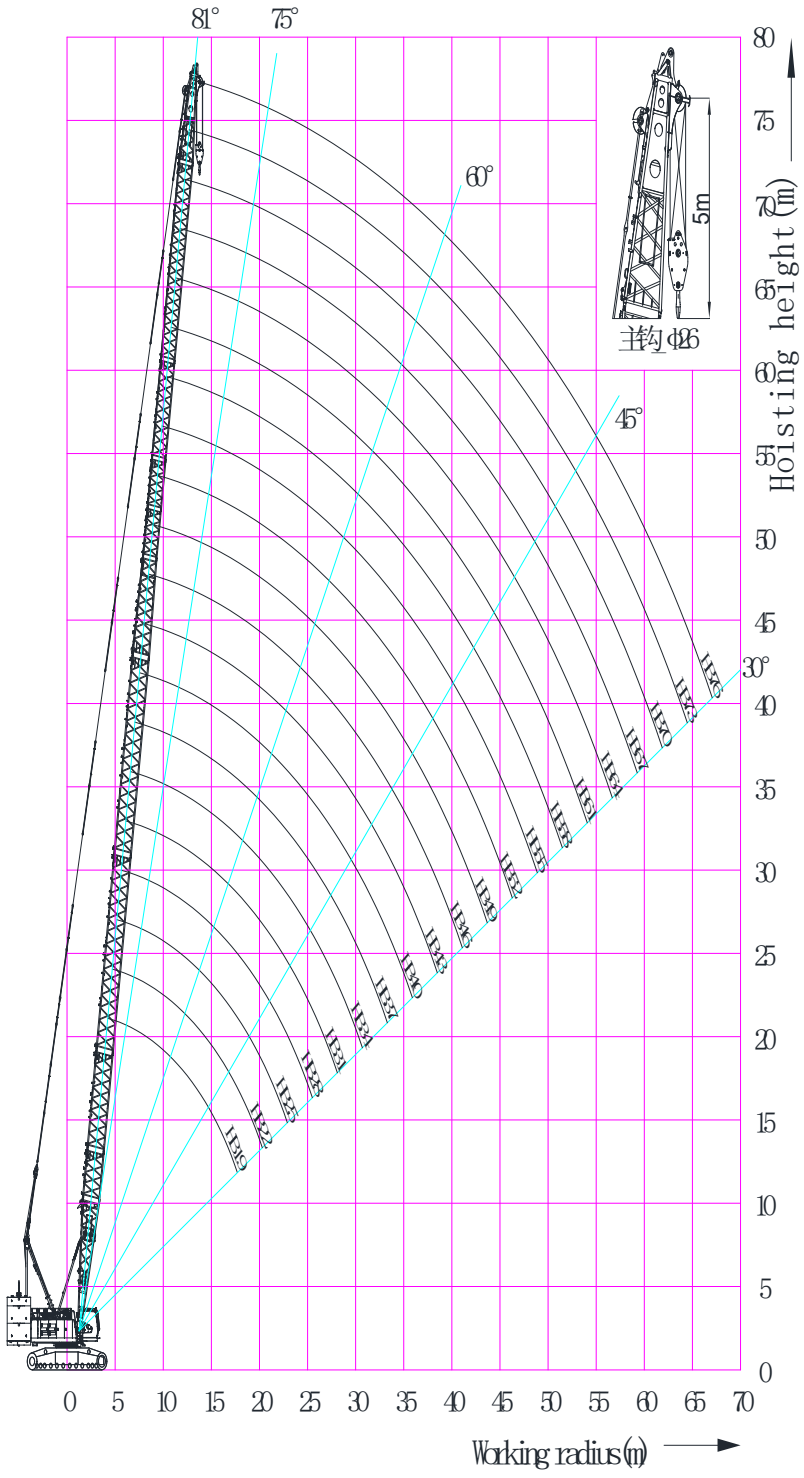
2.2 Boom raising table of main boom working condition (HB) (without boom single pulley);

Boom (HB) raising table – without boom single top

Boom length	Counterweight combination: Turntable counterweight (t) + Car-body counterweight (t)	
	62+8	52+8
HB19	◎	◎
HB22	◎	◎
HB25	◎	◎
HB28	◎	◎
HB31	◎	◎
HB34	◎	◎
HB37	◎	◎
HB40	◎	◎
HB43	◎	◎
HB46	◎	◎
HB49	◎	◎
HB52	◎	◎
*HB55	◎	◎
*HB58	◎	◎
*HB61	◎	◎
*HB64	◎	◎
*HB67	◎	◎
*HB70	◎	◎
*HB73	◎	◎
*HB76	◎	●

Notes:
1. "◎" -- boom can be raised. "● "- Wedge block is required to assist boom raising. "×" -- boom can not be raised, not allowed to use.
2. "*" main boom combination requires the use of center hitch.
3. For boom raising, position crawler drive sprocket at the rear of the crane.

2.3 Working range in HB working condition – without boom single top



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

2.4 Lifting capacity tables in HB working condition – without boom single top

2.4.1 Lifting capacity tables in HB working condition – without boom single top aux. hook (counterweight combination 52t+8t)

Working radius (m)	Main boom length (m)											
	19	22	25	28	31	34	37	40	43	46	49	52
5	150											
6	146	135	132									
7	118	113	109	104	101							
8	99.5	95.9	92.6	89.5	86.6	83.9	81.2					
9	82.7	82.6	80.3	77.9	75.6	73.4	71.3	69.3	67.4			
10	70.2	70.2	70.1	68.8	67	65.2	63.5	61.8	60.2	58.7	57.2	
12	53.7	53.6	53.5	53.4	53.3	53.1	51.8	50.6	49.4	48.3	47.1	46.1
14	43.2	43.1	43	42.8	42.8	42.6	42.5	42.3	41.7	40.7	39.8	39
16	35.9	35.8	35.7	35.5	35.5	35.3	35.2	35	34.9	34.8	34.3	33.6
18	30.6	30.5	30.4	30.2	30.1	30	29.8	29.7	29.5	29.4	29.2	29
20		26.4	26.3	26.1	26.1	25.9	25.7	25.6	25.4	25.3	25.1	24.9
22			23.1	22.9	22.9	22.7	22.5	22.3	22.2	22	21.9	21.7
24				20.3	20.2	20.1	19.9	19.7	19.6	19.4	19.2	19
26					18.1	17.9	17.7	17.6	17.4	17.2	17.1	16.9
28					16.3	16.1	15.9	15.7	15.6	15.4	15.2	15.1
30						14.5	14.4	14.2	14.1	13.9	13.7	13.5
32							13	12.8	12.7	12.5	12.4	12.2
34								11.7	11.6	11.4	11.2	11
36								10.6	10.5	10.3	10.2	10
38									9.6	9.4	9.3	9
40										8.6	8.4	8.2
42											7.7	7.5
44											7	6.8
46												6.2

Notes:

1. The actual lifting capacity must be subtracted from the rated lifting capacity in this table by the weight of the hook, lifting appliance, and the weight of wire rope wrapped around the hook and boom head.

2. The rated load in the table is the value when the heavy object is slowly and smoothly lifted on a level and hard ground, and not the lifting during traveling.

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 top.

4. Tower jib rear pendant need to be removed from boom sections,(tower) jib guide pulley need to be removed from boom transition section.

5. Boom length exceeds 55m with "*", center hitch must be used; boom length exceeds 71m, a wedge block must be used for boom raising.

Working radius (m)	Main boom length (m)							
	*55	*58	*61	*64	*67	*70	*73	*76
12	45	44.1	39.6	42.4				
14	38.1	37.4	36.4	36.1	35.3	32.9	30	26.7
16	32.9	32.3	31.6	31.2	30.6	30	28.6	25.3
18	28.7	28.2	27.7	27.4	26.8	26.3	25.8	23.6
20	24.8	24.7	24.4	24.2	23.7	23.3	22.8	22
22	21.5	21.5	21.3	21.4	21.1	20.7	20.3	19.8
24	18.9	18.8	18.6	18.7	18.6	18.5	18.2	17.7
26	16.7	16.6	16.5	16.5	16.4	16.3	16.1	15.9
28	14.9	14.8	14.6	14.7	14.5	14.4	14.3	14.1
30	13.3	13.3	13.1	13.1	13	12.9	12.7	12.5
32	12	11.9	11.7	11.8	11.6	11.5	11.4	11.2
34	10.8	10.7	10.6	10.6	10.5	10.4	10.2	10
36	9.8	9.7	9.5	9.6	9.4	9.3	9.1	9
38	8.9	8.8	8.6	8.7	8.5	8.4	8.2	8
40	8.1	8	7.8	7.9	7.7	7.6	7.4	7.2
42	7.3	7.3	7.1	7.1	7	6.9	6.7	6.5
44	6.7	6.6	6.4	6.5	6.3	6.2	6	5.8
46	6.1	6	5.8	5.9	5.7	5.6	5.4	5.2
48	5.5	5.4	5.3	5.3	5.1	5	4.9	4.7
50		4.9	4.8	4.8	4.6	4.5	4.4	4.2
52			4.3	4.4	4.2	4.1	3.9	3.7
54			3.9	3.9	3.8	3.7	3.5	3.3
56				3.5	3.4	3.3	3.1	2.9
58					3	2.9	2.7	2.5
60						2.6	2.4	2.2
62						2.2	2.1	1.9
64							1.8	1.6

Notes:

1. The actual lifting capacity must be subtracted from the rated lifting capacity in this table by the weight of the hook, lifting appliance, and the weight of wire rope wrapped around the hook and boom head.

2. The rated load in the table is the value when the heavy object is slowly and smoothly lifted on a level and hard ground, and not the lifting during traveling.

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 top.

4. Tower jib rear pendant need to be removed from boom sections,(tower) jib guide pulley need to be removed from boom transition section.

5. Boom length exceeds 55m with "*", center hitch must be used; boom length exceeds 71m, a wedge block must be used for boom raising.

2.4.2 Lifting capacity tables in HB working condition – without boom single top aux. hook (counterweight combination 62t+8t)

Working radius (m)	Main boom length (m)											
	19	22	25	28	31	34	37	40	43	46	49	52
7			122	118	104							
8		108	104	100	97.6	94.2	83.2					
9	93.1	93	90.5	87.8	85.3	82.8	80.5	78.3	72			
10	79.1	79	79	77.7	75.6	73.6	71.7	69.9	68.1	66.4	60.6	
12	60.6	60.5	60.4	60.3	60.2	60	58.6	57.3	56	54.7	53.5	52.3
14	48.8	48.7	48.6	48.5	48.4	48.3	48.1	48	47.3	46.3	45.3	44.4
16	40.7	40.6	40.5	40.3	40.2	40.1	39.9	39.8	39.7	39.5	39.2	38.4
18	34.7	34.6	34.5	34.3	34.3	34.1	34	33.8	33.7	33.5	33.3	33.2
20		30	29.9	29.8	29.7	29.5	29.4	29.2	29.1	28.9	28.7	28.6
22			26.3	26.2	26.1	25.9	25.8	25.6	25.5	25.3	25.1	24.9
24				23.2	23.2	23	22.8	22.7	22.5	22.4	22.2	22
26					20.8	20.6	20.4	20.2	20.1	19.9	19.8	19.6
28					18.7	18.6	18.4	18.2	18.1	17.9	17.7	17.5
30						16.8	16.7	16.5	16.4	16.2	16	15.8
32							15.2	15	14.9	14.7	14.5	14.3
34								13.7	13.6	13.4	13.2	13
36								12.5	12.4	12.2	12	11.8
38									11.4	11.2	11	10.8
40										10.3	10.1	9.9
42											9.3	9.1
44											8.5	8.3
46												7.7

Notes:

1. The actual lifting capacity must be subtracted from the rated lifting capacity in this table by the weight of the hook, lifting appliance, and the weight of wire rope wrapped around the hook and boom head.

2. The rated load in the table is the value when the heavy object is slowly and smoothly lifted on a level and hard ground, and not the lifting during traveling.

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 top.

4. Tower jib rear pendant need to be removed from boom sections,(tower) jib guide pulley need to be removed from boom transition section.

5. Boom length exceeds 55m with "*", center hitch must be used; boom length exceeds 71m, a wedge block must be used for boom raising.

Working radius	Main boom length (m)

(m)	*55	*58	*61	*64	*67	*70	*73	*76
12	51.2	47.4	39.6	43.1				
14	43.5	42.7	36.4	41.2	36.8	32.9	30	26.7
16	37.6	36.9	33.6	35.8	34.4	31.4	28.6	25.3
18	33	32.4	31.2	31.4	30.8	30	26.9	23.6
20	28.4	28.3	28.2	27.9	27.3	26.9	25.1	22
22	24.8	24.7	24.5	24.6	24.4	24.1	23.6	20.6
24	21.8	21.8	21.6	21.7	21.5	21.4	21.2	19.3
26	19.4	19.3	19.2	19.2	19.1	19	18.8	18.1
28	17.4	17.3	17.1	17.2	17	16.9	16.7	16.6
30	15.6	15.5	15.4	15.4	15.3	15.2	15	14.8
32	14.1	14	13.9	13.9	13.8	13.7	13.5	13.3
34	12.8	12.7	12.6	12.6	12.4	12.3	12.2	12
36	11.7	11.6	11.4	11.5	11.3	11.2	11	10.8
38	10.6	10.6	10.4	10.4	10.3	10.2	10	9.8
40	9.7	9.7	9.5	9.5	9.4	9.3	9.1	8.9
42	8.9	8.8	8.7	8.7	8.5	8.4	8.3	8.1
44	8.2	8.1	7.9	8	7.8	7.7	7.5	7.3
46	7.5	7.4	7.3	7.3	7.1	7	6.8	6.7
48	6.9	6.8	6.6	6.7	6.5	6.4	6.2	6.1
50		6.2	6.1	6.1	6	5.9	5.7	5.5
52			5.6	5.6	5.4	5.3	5.2	5
54			5.1	5.1	5	4.9	4.7	4.5
56				4.7	4.5	4.4	4.2	4.1
58					4.1	4	3.8	3.7
60						3.6	3.5	3.3
62						3.3	3.1	2.9
64							2.8	2.6
66								2.3

Notes:

1. The actual lifting capacity must be subtracted from the rated lifting capacity in this table by the weight of the hook, lifting appliance, and the weight of wire rope wrapped around the hook and boom head.

2. The rated load in the table is the value when the heavy object is slowly and smoothly lifted on a level and hard ground, and not the lifting during traveling.

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 top.

4. Tower jib rear pendant need to be removed from boom sections,(tower) jib guide pulley need to be removed from boom transition section.

5. Boom length exceeds 55m with "*", center hitch must be used; boom length exceeds 71m, a wedge block must be used for boom raising.

3. Heavy-duty fixed jib working condition

3.1 Boom/jib combinations in heavy-duty fixed jib working condition (HF) - without hook on main boom

Boom combinations in heavy-duty fixed jib (HF) working condition

Name / Boom length	Boom butt 8m	boom insert 3 mA per segment	boom insert 6 mA per segment	boom insert 12 mA per segment	6m boom transition section	boom top section 5m
HB19	1	0	0	0	1	1
HB22	1	1	0	0	1	1
HB25	1	0	1	0	1	1
HB28	1	1	1	0	1	1
HB31	1	0	0	1	1	1
HB34	1	1	0	1	1	1
HB37	1	0	1	1	1	1
HB40	1	1	1	1	1	1
HB43	1	0	0	2	1	1
HB46	1	1	0	2	1	1
HB49	1	0	1	2	1	1
HB52	1	1	1	2	1	1

Jib combinations in heavy-duty fixed jib (HF) working condition

Name / Boom length	Jib butt 5m	Boom insert 3mB	Boom insert 6mB	Jib transition section 5m	Jib insert section 3mC	Jib insert section 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

Notes:

1. Tower jib rear pendant need to be removed from boom sections. Tower jib guide pulley needs to be removed from boom transition section.

2. When boom and jib combination length exceeds 71m, it is suggested to use wedge block to assist boom raising.

3. When using heavy-duty fixing jib F13 working condition, the fixed jib must use a hook with weight not less 2.2t.

3.2 Boom raising table in heavy-duty fixed jib (HF) working condition – without hook on main boom (counterweight combination 62t+8t)

Main boom / Jib	HB 19	HB 22	HB 25	HB 28	HB 31	HB 34	HB 37	HB 40	HB 43	HB 46	HB 49	HB 52
F13	●	●	●	●	●	●	●	●	●	●	●	●
F16	●	●	●	●	●	●	●	●	●	●	●	●
F19	●	●	●	●	●	●	●	●	●	●	●	●
F22	●	●	●	●	●	●	●	●	●	●	●	●
F25	●	●	●	●	●	●	●	●	●	●	●	●
F28	●	●	●	●	●	●	●	●	●	●	●	●
F31	●	●	●	●	●	●	●	●	●	●	●	●

Notes:

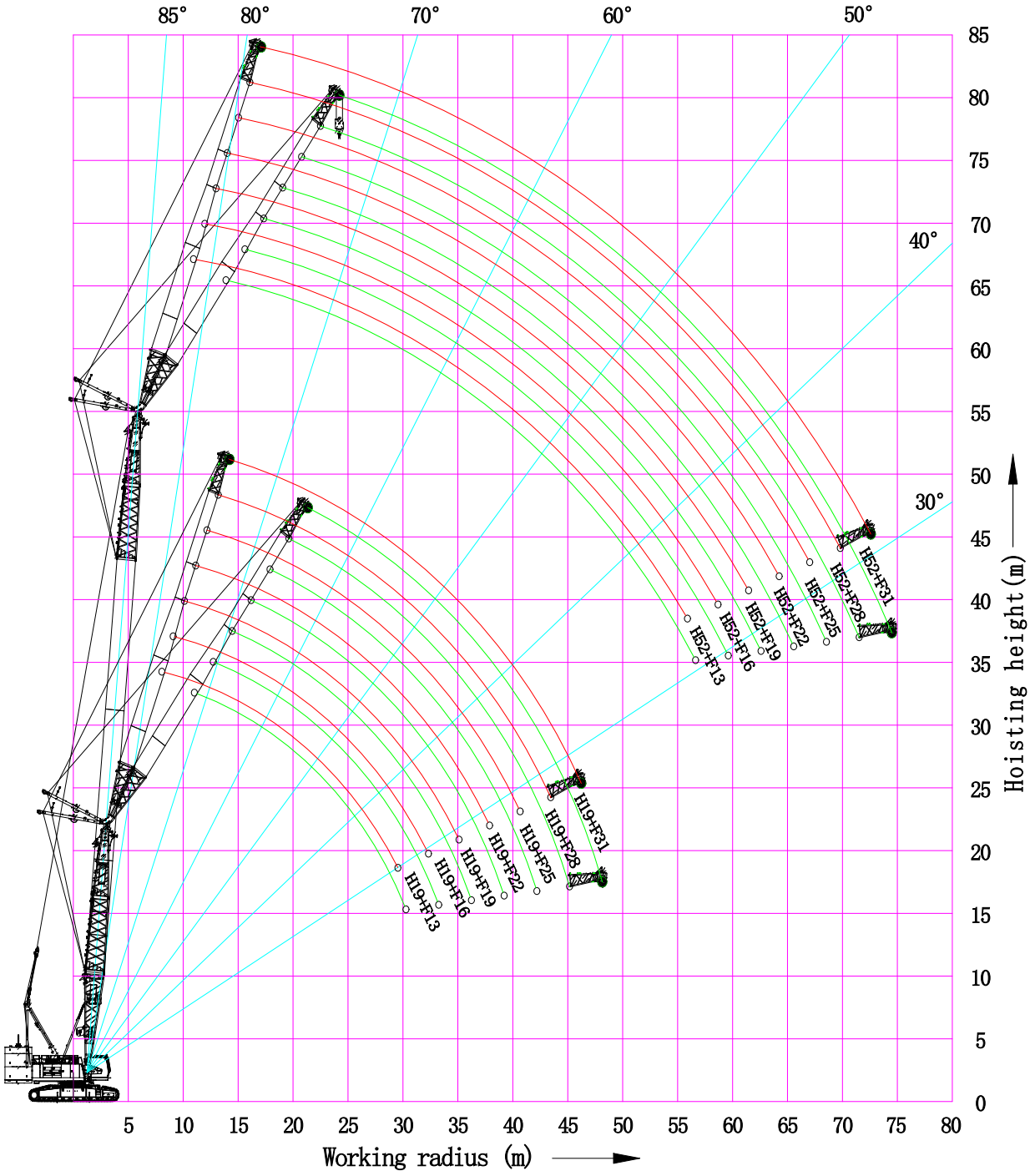
1. For boom raising, position crawler drive sprocket at the rear of the crane.

2. "●" -- can raise boom; "×"– cannot raise boom, this working condition cannot be used.

3. Tower jib rear pendant need to be removed from boom sections. Tower jib guide pulley needs to be removed from boom transition section.

4. When boom and jib combination length exceeds 71m, if the condition permits, it is suggested to use wedge to assist boom raising to ensure the safety.

3.3 Working range of heavy-duty fixed jib (HF) working condition – without hook on main boom (counterweight combination 62t+8t)



Working radius of heavy duty fixed jib working condition (HF)

3.4 Lifting capacity tables in heavy-duty fixed jib (HF) working condition – without hook on boom (counterweight combination 62t+8t)

Notes:

1. The weight of hook, sling, and rope on hook and boom head must be deducted from the rated lifting capacity in the table.
2. The rated lifting capacity in the table is the value of the crane on level and solid ground with gradient not exceed 1%, slowly lifting a load and without travel.
3. The rated load refers to the value when load is suspended freely. The influence of wind on lifting load, ground condition, ground slope, operating speed and any other factors that have negative influence on the safe operation of the equipment are not considered. Therefore, it is the operator's responsibility to assess the current situation and reduce the load and speed accordingly.
4. When boom and jib combination length exceeds 71m, it is suggested to use wedge block to assist boom raising.
5. Use auxiliary hoisting wire rope for reeving operation.
6. When using fixing jib F13, the fixed jib must use a hook with weight not less 2.2t.

A. Angle between boom and jib is 15°

Radius/m	Jib installation angle 15°											
	Jib length 13m											
	Boom length /m											
	19	22	25	28	31	34	37	40	43	46	49	52
12	50	44.4	48.2	47.8								
14	46.1	40.7	44.8	44.8	42.4	41.3	40.5	39.7				
16	41.3	37.5	41	40.9	39.7	38.8	38	37.4	36.8	36.1	34.2	32.5
18	35.2	34.9	34.8	34.6	34.5	34.4	34.2	34	33.3	32.7	32	31.4
20	30.4	30.2	30.1	29.9	29.7	29.6	29.4	29.3	29.1	28.9	28.3	27.7
22	26.7	26.5	26.3	26.1	26	25.8	25.6	25.5	25.3	25.1	25	24.7
24	23.7	23.5	23.3	23.1	22.9	22.8	22.6	22.4	22.2	22.1	21.9	21.7
26	21.2	21	20.8	20.6	20.4	20.2	20	19.9	19.7	19.5	19.3	19.2
28	19.1	18.9	18.7	18.4	18.3	18.1	17.9	17.7	17.6	17.4	17.2	17
30	17.2	17	16.9	16.6	16.5	16.3	16.1	15.9	15.7	15.6	15.4	15.2
32		15.5	15.3	15.1	14.9	14.7	14.5	14.3	14.2	14	13.8	13.6
34			13.9	13.7	13.6	13.4	13.2	13	12.8	12.6	12.4	12.2
36			12.7	12.5	12.4	12.2	12	11.8	11.6	11.4	11.2	11
38				11.4	11.3	11.1	10.9	10.7	10.5	10.3	10.1	9.9
40					10.3	10.1	9.9	9.7	9.6	9.4	9.2	9
42						9.2	9.1	8.9	8.7	8.5	8.3	8.1
44						8.5	8.3	8.1	7.9	7.7	7.5	7.3
46							7.6	7.4	7.2	7	6.8	6.6
48								6.7	6.6	6.4	6.2	6
50									6	5.8	5.6	5.4
52									5.4	5.2	5	4.8
54										4.7	4.5	4.3
56											4	3.8
58												3.4

Radius/m	Jib installation angle 15°											
	Jib length 16m											
	Boom length /m											
	19	22	25	28	31	34	37	40	43	46	49	52
12	45.6	38.3										
14	45.6	35.1	38.3	38.2	37.9	36.8						
16	41.5	32.3	35.7	35.9	35.4	34.5	33.7	33.1	32.5	31.9		
18	35.3	30	33.4	33.8	33.2	32.4	31.8	31.3	30.7	30.3	29.6	28.1
20	30.6	28	30.2	30	29.9	29.7	29.5	29.4	29.2	28.6	28	27.1
22	26.8	26.2	26.4	26.2	26.1	25.9	25.7	25.6	25.4	25.3	25	24.5
24	23.8	23.6	23.4	23.2	23	22.8	22.7	22.5	22.3	22.2	22	21.8
26	21.3	21.1	20.9	20.6	20.5	20.3	20.1	19.9	19.8	19.6	19.4	19.3
28	19.2	18.9	18.7	18.5	18.4	18.2	18	17.8	17.6	17.4	17.3	17.1
30	17.3	17.1	16.9	16.7	16.5	16.3	16.2	16	15.8	15.6	15.4	15.2
32	15.8	15.5	15.4	15.1	15	14.8	14.6	14.4	14.2	14	13.8	13.6
34	14.4	14.2	14	13.8	13.6	13.4	13.2	13	12.8	12.6	12.5	12.3
36		12.9	12.8	12.5	12.4	12.2	12	11.8	11.6	11.4	11.2	11
38			11.7	11.5	11.3	11.1	10.9	10.7	10.5	10.3	10.2	9.9
40				10.5	10.4	10.2	10	9.7	9.6	9.4	9.2	9
42					9.5	9.3	9.1	8.9	8.7	8.5	8.3	8.1
44					8.7	8.5	8.3	8.1	7.9	7.7	7.5	7.3
46						7.8	7.6	7.4	7.2	7	6.8	6.6
48							6.9	6.7	6.6	6.4	6.2	6
50								6.1	6	5.8	5.6	5.4
52								5.5	5.4	5.2	5	4.8
54									4.9	4.7	4.5	4.3
56										4.2	4	3.8
58											3.6	3.4
60											3.1	2.9
62												2.5

Radius/m	Jib installation angle 15°											
	Jib length 19m											
	Boom length /m											
	19	22	25	28	31	34	37	40	43	46	49	52
14	44.1	31.5	34.2									
16	39.4	29	31.8	31.9	32.4	31.4	30.7	30				
18	35.5	26.8	29.8	30	30.3	29.5	28.9	28.4	27.9	27.4	26.9	25.7
20	30.8	25	27.9	28.4	28.6	27.9	27.3	26.9	26.4	26	25.6	24.8
22	27	23.4	26.3	26.4	26.3	26.1	25.9	25.5	25.1	24.8	24.5	24
24	24	22	23.6	23.4	23.2	23	22.9	22.7	22.6	22.4	22.2	21.9
26	21.4	20.8	21	20.8	20.7	20.5	20.3	20.1	20	19.8	19.7	19.5
28	19.3	19.1	18.9	18.7	18.5	18.3	18.2	18	17.8	17.6	17.5	17.3
30	17.5	17.3	17.1	16.9	16.7	16.5	16.3	16.1	16	15.8	15.6	15.4
32	15.9	15.7	15.5	15.3	15.1	14.9	14.7	14.5	14.4	14.2	14	13.8
34	14.6	14.3	14.1	13.9	13.8	13.5	13.4	13.2	13	12.8	12.6	12.4
36	13.3	13.1	12.9	12.7	12.5	12.3	12.1	11.9	11.8	11.6	11.4	11.2
38		12	11.8	11.6	11.5	11.3	11.1	10.8	10.7	10.5	10.3	10.1
40			10.9	10.6	10.5	10.3	10.1	9.9	9.7	9.5	9.3	9.1
42			10	9.8	9.6	9.4	9.2	9	8.8	8.6	8.4	8.2
44				9	8.8	8.6	8.4	8.2	8.1	7.8	7.7	7.4
46					8.1	7.9	7.7	7.5	7.3	7.1	6.9	6.7
48						7.2	7	6.8	6.7	6.5	6.3	6.1
50						6.6	6.4	6.2	6.1	5.9	5.7	5.5
52							5.9	5.7	5.5	5.3	5.1	4.9
54								5.1	5	4.8	4.6	4.4
56									4.5	4.3	4.1	3.9
58										3.9	3.7	3.5
60										3.4	3.2	3
62											2.8	2.6
64												2.3

Radius/m	Jib installation angle 15°											
	Jib length 22m											
	Boom length /m											
	19	22	25	28	31	34	37	40	43	46	49	52
16	35.5	25.7	28	27.9								
18	32	23.8	26.2	26.3	27.5	26.7	26	25.5				
20	29.2	22.1	24.6	24.9	25.9	25.2	24.6	24.1	23.7	23.3	22.9	22.4
22	26.8	20.7	23.2	23.6	24.5	23.8	23.3	22.9	22.5	22.2	21.9	21.5
24	24	19.5	21.9	22.4	23.2	22.6	22.2	21.9	21.5	21.2	20.9	20.6
26	21.5	18.4	20.8	20.9	20.8	20.6	20.4	20.3	20.1	20	19.8	19.7
28	19.4	17.4	19	18.8	18.6	18.4	18.3	18.1	17.9	17.8	17.6	17.5
30	17.6	16.6	17.1	16.9	16.8	16.6	16.4	16.2	16.1	15.9	15.7	15.6
32	16	15.8	15.6	15.4	15.2	15	14.8	14.6	14.5	14.3	14.1	13.9
34	14.6	14.4	14.2	14	13.8	13.6	13.4	13.2	13.1	12.9	12.7	12.5
36	13.4	13.2	13	12.7	12.6	12.4	12.2	12	11.8	11.6	11.5	11.3
38	12.3	12.1	11.9	11.7	11.5	11.3	11.1	10.9	10.7	10.5	10.4	10.2
40	11.3	11.1	10.9	10.7	10.5	10.3	10.1	9.9	9.8	9.6	9.4	9.2
42		10.2	10	9.8	9.6	9.4	9.2	9	8.9	8.7	8.5	8.3
44			9.2	9	8.9	8.6	8.4	8.2	8.1	7.9	7.7	7.5
46				8.3	8.1	7.9	7.7	7.5	7.3	7.1	7	6.8
48					7.5	7.2	7.1	6.8	6.7	6.5	6.3	6.1
50					6.8	6.6	6.4	6.2	6.1	5.9	5.7	5.5
52						6.1	5.9	5.7	5.5	5.3	5.1	4.9
54							5.3	5.1	5	4.8	4.6	4.4
56								4.6	4.5	4.3	4.1	3.9
58								4.2	4	3.8	3.7	3.4
60									3.6	3.4	3.2	3
62										3	2.8	2.6
64											2.5	2.3
66											2.1	1.9
68												1.6

Radius/m	Jib installation angle 15°											
	Jib length 25m											
	Boom length /m											
	19	22	25	28	31	34	37	40	43	46	49	52
16	20	20.3	20.6									
18	18.3	18.7	19.1	19.4	19.7	19.9	20.1					
20	16.8	17.3	17.7	18.1	18.4	18.6	18.9	19.1	19.2	19.3	19.4	
22	15.5	16	16.5	16.9	17.2	17.5	17.8	18	18.2	18.4	18.5	18.6
24	14.4	14.9	15.4	15.8	16.2	16.6	16.8	17.1	17.3	17.5	17.7	17.8
26	13.5	14	14.5	14.9	15.3	15.7	15.9	16.2	16.5	16.7	16.9	17
28	12.6	13.1	13.6	14	14.4	14.8	15.1	15.4	15.7	15.9	16.1	16.3
30	11.8	12.4	12.8	13.3	13.7	14.1	14.4	14.7	15	15.2	15.5	15.7
32	11.2	11.7	12.2	12.6	13	13.4	13.7	14	14.3	14.4	14.3	14.1
34	10.6	11.1	11.5	12	12.4	12.8	13.1	13.4	13.2	13	12.8	12.7
36	10	10.5	11	11.4	11.8	12.2	12.3	12.1	12	11.8	11.6	11.4
38	9.5	10	10.5	10.9	11.3	11.4	11.2	11	10.9	10.7	10.5	10.3
40	9.1	9.6	10	10.4	10.7	10.5	10.3	10.1	9.9	9.7	9.5	9.3
42	8.7	9.2	9.6	10	9.8	9.6	9.4	9.2	9	8.8	8.6	8.4
44		8.8	9.2	9.2	9	8.8	8.6	8.4	8.2	8	7.8	7.6
46			8.7	8.4	8.3	8.1	7.9	7.7	7.5	7.3	7.1	6.9
48			8	7.8	7.6	7.4	7.2	7	6.8	6.6	6.4	6.2
50				7.2	7	6.8	6.6	6.4	6.2	6	5.8	5.6
52					6.4	6.2	6	5.8	5.7	5.4	5.3	5
54						5.7	5.5	5.3	5.1	4.9	4.7	4.5
56							5	4.8	4.7	4.4	4.2	4
58							4.6	4.4	4.2	4	3.8	3.6
60								3.9	3.8	3.6	3.4	3.2
62									3.4	3.2	3	2.8
64										2.8	2.6	2.4
66										2.4	2.3	2
68											1.9	1.7

Radius/m	Jib installation angle 15°											
	Jib length 28m											
	Boom length /m											
	19	22	25	28	31	34	37	40	43	46	49	52
18	15.6	15.9	16.1	16.4								
20	14.3	14.7	15	15.2	15.4	15.6	15.8	15.9				
22	13.3	13.6	13.9	14.2	14.5	14.7	14.9	15	15.2	15.3	15.4	15.4
24	12.3	12.7	13	13.3	13.6	13.8	14.1	14.2	14.4	14.5	14.7	14.7
26	11.5	11.9	12.2	12.5	12.8	13.1	13.3	13.5	13.7	13.9	14	14.1
28	10.7	11.1	11.5	11.8	12.1	12.4	12.6	12.9	13.1	13.2	13.4	13.5
30	10	10.4	10.8	11.2	11.5	11.8	12	12.3	12.5	12.7	12.8	13
32	9.4	9.8	10.2	10.6	10.9	11.2	11.4	11.7	11.9	12.1	12.3	12.4
34	8.9	9.3	9.7	10	10.3	10.6	10.9	11.2	11.4	11.6	11.8	12
36	8.4	8.8	9.2	9.5	9.8	10.1	10.4	10.7	10.9	11.1	11.3	11.5
38	8	8.3	8.7	9.1	9.4	9.7	10	10.2	10.5	10.7	10.8	10.6
40	7.6	7.9	8.3	8.6	9	9.3	9.5	9.8	10.1	9.9	9.8	9.6
42	7.2	7.6	7.9	8.3	8.6	8.9	9.2	9.4	9.3	9.1	8.9	8.7
44	6.9	7.2	7.6	7.9	8.2	8.5	8.8	8.6	8.4	8.3	8.1	7.9
46		7	7.3	7.6	7.9	8.2	8.1	7.9	7.7	7.5	7.3	7.1
48		6.7	7	7.3	7.6	7.6	7.4	7.2	7.1	6.8	6.7	6.5
50			6.8	7	7.2	7	6.8	6.6	6.4	6.2	6	5.8
52				6.8	6.7	6.4	6.3	6	5.9	5.7	5.5	5.3
54					6.1	5.9	5.7	5.5	5.4	5.1	5	4.7
56					5.6	5.4	5.2	5	4.9	4.7	4.5	4.3
58						5	4.8	4.6	4.4	4.2	4	3.8
60							4.3	4.1	4	3.8	3.6	3.4
62								3.7	3.6	3.4	3.2	3
64								3.4	3.2	3	2.8	2.6
66									2.8	2.6	2.5	2.3
68										2.3	2.1	1.9
70											1.8	1.6

Radius/m	Jib installation angle 15°											
	Jib length 31m											
	Boom length /m											
	19	22	25	28	31	34	37	40	43	46	49	52
18	13.6											
20	12.5	12.8	12.9	13.1	13.3							
22	11.5	11.8	12.1	12.2	12.4	12.6	12.7	12.8	12.9			
24	10.7	11	11.2	11.5	11.7	11.8	12	12.1	12.3	12.4	12.4	12.5
26	9.9	10.2	10.5	10.8	11	11.2	11.4	11.5	11.6	11.8	11.9	11.9
28	9.2	9.6	9.9	10.1	10.3	10.6	10.8	10.9	11.1	11.2	11.3	11.4
30	8.6	9	9.3	9.5	9.8	10	10.2	10.4	10.6	10.7	10.8	10.9
32	8.1	8.4	8.7	9	9.3	9.5	9.7	9.9	10.1	10.2	10.4	10.5
34	7.6	7.9	8.2	8.5	8.8	9	9.2	9.4	9.6	9.8	9.9	10.1
36	7.1	7.5	7.8	8.1	8.3	8.6	8.8	9	9.2	9.4	9.5	9.7
38	6.7	7.1	7.4	7.7	7.9	8.2	8.4	8.6	8.8	9	9.2	9.3
40	6.4	6.7	7	7.3	7.5	7.8	8	8.2	8.4	8.6	8.8	9
42	6	6.3	6.6	6.9	7.2	7.4	7.7	7.9	8.1	8.3	8.5	8.6
44	5.7	6	6.3	6.6	6.9	7.1	7.3	7.6	7.8	8	8.1	8.1
46	5.4	5.7	6	6.3	6.6	6.8	7	7.3	7.5	7.7	7.5	7.3
48	5.2	5.5	5.8	6	6.3	6.5	6.8	7	7.2	7	6.8	6.6
50		5.3	5.5	5.8	6	6.3	6.5	6.7	6.6	6.4	6.2	6
52			5.3	5.6	5.8	6	6.3	6.2	6	5.8	5.6	5.4
54				5.4	5.6	5.8	5.9	5.7	5.5	5.3	5.1	4.9
56				5.2	5.4	5.6	5.4	5.2	5	4.8	4.6	4.4
58					5.2	5.1	4.9	4.7	4.6	4.4	4.2	4
60						4.7	4.5	4.3	4.1	3.9	3.7	3.5
62							4.1	3.9	3.7	3.5	3.3	3.1
64							3.7	3.5	3.4	3.2	3	2.8
66								3.1	3	2.8	2.6	2.4
68									2.7	2.5	2.3	2.1
70										2.1	2	1.8
72										1.8	1.6	

B、Installation angle between boom and jib is 30°

Radius/m	Jib installation angle 30°											
	Jib length 13m											
	Boom length /m											
	19	22	25	28	31	34	37	40	43	46	49	52
14	34.9	30										
16	32.2	28.5	31.1	31	33.6	32.5	31.6					
18	30	27.2	29.9	30	32	31	30.3	29.6	29	28.5	27.9	
20	28.1	26	28.8	29	30.4	29.7	29.1	28.5	27.9	27.4	27	26.4
22	26.5	25	26.8	26.6	26.5	26.4	26.3	26.2	26.1	25.9	25.8	25.6
24	24	23.8	23.7	23.5	23.4	23.3	23.1	23	22.9	22.8	22.6	22.5
26	21.4	21.2	21.1	20.9	20.8	20.7	20.5	20.4	20.3	20.1	20	19.9
28	19.2	19.1	18.9	18.8	18.6	18.5	18.3	18.2	18.1	17.9	17.8	17.6
30	17.3	17.2	17.1	16.9	16.8	16.6	16.5	16.3	16.2	16	15.9	15.7
32		15.5	15.4	15.3	15.2	15	14.9	14.7	14.6	14.4	14.2	14.1
34		14.1	14	13.9	13.8	13.6	13.4	13.3	13.1	13	12.8	12.7
36			12.7	12.6	12.5	12.3	12.2	12	11.9	11.7	11.6	11.4
38				11.4	11.4	11.2	11.1	10.9	10.8	10.6	10.5	10.3
40					10.4	10.2	10.1	9.9	9.8	9.6	9.5	9.3
42					9.4	9.3	9.2	9	8.9	8.7	8.6	8.4
44						8.5	8.3	8.2	8.1	7.9	7.7	7.6
46							7.6	7.4	7.3	7.2	7	6.8
48								6.7	6.6	6.5	6.3	6.1
50									6	5.8	5.7	5.5
52									5.4	5.3	5.1	4.9
54										4.7	4.6	4.4
56											4.1	3.9
58												3.4
60												3

Radius/m	Jib installation angle 30°											
	Jib length 16m											
	Boom length /m											
	19	22	25	28	31	34	37	40	43	46	49	52
16	29.2	24.2	26.1									
18	27.1	23	25.1	25.1	27.7	27.2	26.4					
20	25.3	21.9	24.1	24.3	26.9	26	25.3	24.8	24.2	23.8	23.3	
22	23.8	21	23.3	23.5	25.7	25	24.4	23.8	23.4	22.9	22.5	22.2
24	22.5	20.2	22.5	22.8	23.7	23.6	23.4	23	22.5	22.2	21.8	21.5
26	21.3	19.5	21.3	21.2	21.1	20.9	20.8	20.7	20.5	20.4	20.3	20.2
28	19.4	18.9	19.1	19	18.9	18.7	18.6	18.4	18.3	18.2	18	17.9
30	17.5	17.4	17.3	17.1	17	16.8	16.7	16.5	16.4	16.3	16.1	16
32	15.9	15.8	15.6	15.5	15.3	15.2	15	14.9	14.8	14.6	14.5	14.3
34	14.4	14.3	14.2	14	13.9	13.8	13.6	13.4	13.3	13.2	13	12.9
36		13	12.9	12.8	12.7	12.5	12.3	12.2	12.1	11.9	11.7	11.6
38			11.8	11.6	11.5	11.4	11.2	11.1	10.9	10.8	10.6	10.4
40				10.6	10.5	10.4	10.2	10	9.9	9.7	9.6	9.4
42				9.6	9.6	9.4	9.3	9.1	9	8.8	8.7	8.5
44					8.7	8.6	8.5	8.3	8.2	8	7.8	7.7
46						7.8	7.7	7.5	7.4	7.3	7.1	6.9
48							7	6.8	6.7	6.6	6.4	6.2
50							6.3	6.2	6.1	5.9	5.8	5.6
52								5.6	5.5	5.3	5.2	5
54									4.9	4.8	4.6	4.5
56										4.3	4.1	3.9
58										3.8	3.6	3.5
60											3.2	3
62												2.6

Radius/m	Jib installation angle 30°											
	Jib length 19m											
	Boom length /m											
	19	22	25	28	31	34	37	40	43	46	49	52
18	25.1	20.2	21.9									
20	23.3	19.3	21.1	21.1	23.4	23.4	22.7					
22	21.8	18.4	20.3	20.4	22.7	22.4	21.8	21.3	20.8	20.4	20	
24	20.6	17.6	19.6	19.8	22.1	21.5	21	20.5	20.1	19.7	19.4	19.1
26	19.4	16.9	18.9	19.2	21.3	20.7	20.2	19.8	19.4	19.1	18.8	18.5
28	18.5	16.3	18.3	18.6	19.1	19	18.9	18.7	18.6	18.5	18.2	17.9
30	17.6	15.8	17.5	17.3	17.2	17.1	16.9	16.8	16.7	16.6	16.4	16.3
32	16.2	15.4	15.9	15.7	15.6	15.4	15.3	15.1	15	14.9	14.7	14.6
34	14.7	14.6	14.4	14.3	14.2	14	13.8	13.7	13.6	13.4	13.3	13.1
36	13.4	13.3	13.2	13	12.9	12.7	12.6	12.4	12.3	12.1	12	11.8
38		12.1	12	11.9	11.8	11.6	11.4	11.3	11.1	11	10.8	10.7
40		11.1	11	10.8	10.7	10.6	10.4	10.3	10.1	10	9.8	9.6
42			10	9.9	9.8	9.7	9.5	9.3	9.2	9	8.9	8.7
44				9	9	8.8	8.7	8.5	8.4	8.2	8	7.9
46					8.2	8	7.9	7.7	7.6	7.4	7.3	7.1
48					7.4	7.3	7.2	7	6.9	6.7	6.6	6.4
50						6.6	6.5	6.4	6.3	6.1	5.9	5.8
52							5.9	5.8	5.7	5.5	5.4	5.2
54								5.2	5.1	5	4.8	4.6
56									4.6	4.4	4.3	4.1
58									4.1	3.9	3.8	3.6
60										3.5	3.3	3.2
62											2.9	2.7
64												2.3
66												1.9

Radius/m	Jib installation angle 30°											
	Jib length 22m											
	Boom length /m											
	19	22	25	28	31	34	37	40	43	46	49	52
20	20.9	16.9										
22	19.5	16.1	17.7	17.7	19.7	19.8	19.5					
24	18.4	15.4	17	17.1	19.2	19.3	18.7	18.3	17.9	17.5	17.2	
26	17.3	14.8	16.5	16.6	18.7	18.5	18	17.6	17.2	16.9	16.6	16.3
28	16.4	14.3	15.9	16.2	18.1	17.9	17.4	17	16.7	16.4	16.1	15.8
30	15.6	13.8	15.4	15.7	17.3	17.3	16.8	16.5	16.1	15.9	15.6	15.4
32	14.9	13.3	15	15.3	15.8	15.6	15.5	15.3	15.2	15.1	15	14.9
34	14.3	12.9	14.6	14.4	14.3	14.2	14	13.9	13.8	13.6	13.5	13.4
36	13.6	12.6	13.3	13.1	13	12.9	12.7	12.6	12.5	12.3	12.2	12
38	12.4	12.3	12.2	12	11.9	11.7	11.6	11.4	11.3	11.2	11	10.9
40	11.3	11.2	11.1	11	10.9	10.7	10.5	10.4	10.3	10.1	10	9.8
42		10.3	10.2	10	9.9	9.8	9.6	9.5	9.3	9.2	9	8.9
44			9.3	9.2	9.1	8.9	8.8	8.6	8.5	8.3	8.2	8
46				8.4	8.3	8.1	8	7.8	7.7	7.6	7.4	7.2
48				7.6	7.6	7.4	7.3	7.1	7	6.8	6.7	6.5
50					6.9	6.8	6.6	6.5	6.4	6.2	6	5.9
52						6.1	6	5.9	5.7	5.6	5.4	5.3
54							5.4	5.3	5.2	5	4.9	4.7
56							4.9	4.7	4.6	4.5	4.3	4.2
58								4.2	4.1	4	3.9	3.7
60									3.7	3.5	3.4	3.2
62										3.1	3	2.8
64										2.6	2.5	2.4
66											2.1	2
68												1.6

Radius/m	Jib installation angle 30°											
	Jib length 25m											
	Boom length /m											
	19	22	25	28	31	34	37	40	43	46	49	52
22	13.1	13.3	13.5	13.7								
24	12.4	12.6	12.8	12.9	13.1	13.2	13.3	13.4				
26	11.7	11.9	12.1	12.3	12.5	12.7	12.8	12.9	13	13	13.1	13.2
28	11.1	11.4	11.6	11.8	12	12.1	12.3	12.4	12.5	12.6	12.7	12.8
30	10.5	10.8	11.1	11.3	11.5	11.7	11.8	12	12.1	12.2	12.3	12.4
32	10	10.3	10.6	10.8	11	11.2	11.4	11.6	11.7	11.8	11.9	12
34	9.6	9.9	10.2	10.4	10.6	10.8	11	11.2	11.3	11.5	11.6	11.7
36	9.2	9.5	9.8	10.1	10.3	10.5	10.7	10.8	11	11.1	11.2	11.4
38	8.9	9.2	9.5	9.7	9.9	10.1	10.3	10.5	10.7	10.8	10.9	11.1
40	8.7	8.9	9.2	9.4	9.6	9.8	10	10.2	10.4	10.4	10.2	10.1
42	8.5	8.7	8.9	9.1	9.4	9.6	9.8	9.7	9.6	9.4	9.3	9.1
44		8.5	8.7	8.9	9.1	9.2	9	8.9	8.7	8.6	8.4	8.3
46		8.5	8.5	8.7	8.6	8.4	8.2	8.1	7.9	7.8	7.6	7.5
48			8.1	7.9	7.8	7.7	7.5	7.4	7.2	7.1	6.9	6.8
50				7.2	7.2	7	6.9	6.7	6.6	6.4	6.3	6.1
52					6.5	6.4	6.3	6.1	6	5.8	5.7	5.5
54					5.9	5.8	5.7	5.5	5.4	5.3	5.1	4.9
56						5.3	5.2	5	4.9	4.7	4.6	4.4
58							4.6	4.5	4.4	4.2	4.1	3.9
60								4	3.9	3.8	3.6	3.5
62									3.5	3.3	3.2	3
64									3	2.9	2.8	2.6
66										2.5	2.4	2.2
68											2	1.8

Radius/m	Jib installation angle 30°											
	Jib length 28m											
	Boom length /m											
	19	22	25	28	31	34	37	40	43	46	49	52
24	10.5	10.6	10.7									
26	9.9	10	10.2	10.3	10.4	10.5	10.6	10.7				
28	9.3	9.5	9.7	9.8	10	10.1	10.2	10.3	10.3	10.4	10.4	10.5
30	8.8	9	9.2	9.4	9.5	9.7	9.8	9.9	10	10	10.1	10.2
32	8.4	8.6	8.8	9	9.1	9.3	9.4	9.5	9.6	9.7	9.8	9.9
34	8	8.2	8.4	8.6	8.8	8.9	9.1	9.2	9.3	9.4	9.5	9.6
36	7.6	7.9	8.1	8.3	8.5	8.6	8.8	8.9	9	9.1	9.2	9.3
38	7.3	7.6	7.8	8	8.1	8.3	8.5	8.6	8.7	8.8	8.9	9
40	7	7.3	7.5	7.7	7.9	8	8.2	8.3	8.5	8.6	8.7	8.8
42	6.8	7	7.2	7.4	7.6	7.8	7.9	8.1	8.2	8.3	8.5	8.6
44	6.7	6.8	7	7.2	7.4	7.6	7.7	7.9	8	8.1	8.2	8.3
46	6.6	6.7	6.8	7	7.2	7.3	7.5	7.6	7.8	7.9	8	7.8
48		6.6	6.7	6.8	7	7.2	7.3	7.5	7.5	7.4	7.2	7.1
50			6.6	6.7	6.8	7	7.1	7	6.9	6.7	6.6	6.4
52				6.6	6.7	6.7	6.6	6.4	6.3	6.1	6	5.8
54				6.3	6.3	6.1	6	5.8	5.7	5.5	5.4	5.2
56					5.7	5.6	5.5	5.3	5.2	5	4.9	4.7
58						5.1	4.9	4.8	4.7	4.5	4.4	4.2
60							4.5	4.3	4.2	4.1	3.9	3.7
62							4	3.9	3.8	3.6	3.5	3.3
64								3.4	3.3	3.2	3.1	2.9
66									2.9	2.8	2.7	2.5
68										2.4	2.3	2.1
70										2	1.9	1.8
72											1.6	

Radius/m	Jib installation angle 30°											
	Jib length 31m											
	Boom length /m											
	19	22	25	28	31	34	37	40	43	46	49	52
26	8.5	8.6	8.7									
28	8	8.1	8.2	8.3	8.4	8.5	8.6					
30	7.5	7.7	7.8	7.9	8	8.1	8.2	8.3	8.3	8.4	8.4	8.5
32	7.1	7.3	7.4	7.6	7.7	7.8	7.9	8	8	8.1	8.2	8.2
34	6.7	6.9	7.1	7.2	7.3	7.5	7.6	7.7	7.7	7.8	7.9	7.9
36	6.4	6.6	6.7	6.9	7	7.2	7.3	7.4	7.5	7.6	7.6	7.7
38	6.1	6.3	6.5	6.6	6.8	6.9	7	7.1	7.2	7.3	7.4	7.5
40	5.8	6	6.2	6.3	6.5	6.6	6.8	6.9	7	7.1	7.2	7.2
42	5.6	5.8	5.9	6.1	6.3	6.4	6.5	6.7	6.8	6.9	7	7
44	5.4	5.5	5.7	5.9	6	6.2	6.3	6.4	6.6	6.7	6.8	6.8
46	5.2	5.4	5.5	5.7	5.8	6	6.1	6.2	6.4	6.5	6.6	6.6
48	5.1	5.2	5.4	5.5	5.7	5.8	5.9	6.1	6.2	6.3	6.4	6.5
50		5.1	5.2	5.4	5.5	5.6	5.8	5.9	6	6.1	6.2	6.3
52		5.1	5.1	5.2	5.4	5.5	5.6	5.7	5.8	6	6.1	6
54			5.1	5.1	5.2	5.4	5.5	5.6	5.7	5.8	5.6	5.5
56				5.1	5.2	5.2	5.4	5.5	5.4	5.2	5.1	4.9
58					5.1	5.2	5.2	5	4.9	4.7	4.6	4.4
60					4.9	4.8	4.7	4.6	4.4	4.3	4.1	4
62						4.3	4.2	4.1	4	3.8	3.7	3.5
64							3.8	3.7	3.6	3.4	3.3	3.1
66								3.2	3.2	3	2.9	2.7
68									2.8	2.6	2.5	2.3
70									2.4	2.3	2.1	2
72										1.9	1.8	1.6

4. Light-duty fixed jib working condition (LF) (optional)

4.1. Light-duty fixed jib working condition (LF) (optional)

Boom combinations in Light-duty fixed jib (LF) working condition

Name / Boom length	Boom butt 8m	boom insert 3 mA per segment	boom insert 6 mA per segment	boom insert 12 mA per segment	6m boom transition section	boom insert 3mB section	boom insert 6mB section	boom insert 12mB section	boom top section 5m
HB28	1	1	1	0	1	0	0	0	1
HB31	1	0	0	1	1	0	0	0	1
HB34	1	1	0	1	1	0	0	0	1
HB37	1	0	1	1	1	0	0	0	1
HB40	1	1	1	1	1	0	0	0	1
HB43	1	0	0	2	1	0	0	0	1
HB46	1	1	0	2	1	0	0	0	1
HB49	1	0	1	2	1	0	0	0	1
HB52	1	1	1	2	1	0	0	0	1
*HB55	1	1	1	2	1	1	0	0	1
*HB58	1	1	1	2	1	0	1	0	1
*HB61	1	1	1	2	1	1	1	0	1
*HB64	1	1	1	2	1	0	0	1	1

Light duty fixed jib (LF) working condition-jib combinations

Name and Qty. / Main boom combinations	Light-duty jib butt 6m	Jib insert section 6mD	Light-duty jib top section 7m
F13	1	0	1
F19	1	1	1
F25	1	2	1
F31	1	3	1

Notes:

1. "*" main boom combination requires the use of center hitch.

2. Tower jib rear pendant need to be removed from boom sections. Tower jib guide pulley needs to be removed from boom transition section.

3. When boom and jib combination length exceeds 71m, it is suggested to use wedge block to assist boom raising.

4. When using fixing jib F13, the fixed jib must use a hook with weight not less 1.7t.

4.2 Boom raising table in light-duty fixed jib (LF) working condition – without hook on main boom (counterweight combination 62t+8t)

Main boom / Tower jib	HB 28	HB 31	HB 34	HB 37	HB 40	HB 43	HB 46	HB 49	HB 52	*HB 55	*HB 58	*HB 61	*HB 64
F13	●	●	●	●	●	●	●	●	●	●	●	●	●
F19	●	●	●	●	●	●	●	●	●	●	●	●	●
F25	●	●	●	●	●	●	●	●	●	●	●	●	●
F31	●	●	●	●	●	●	●	●	●	●	●	●	●

Notes:

1. When raising the boom, place the track drive roller behind the crane body.

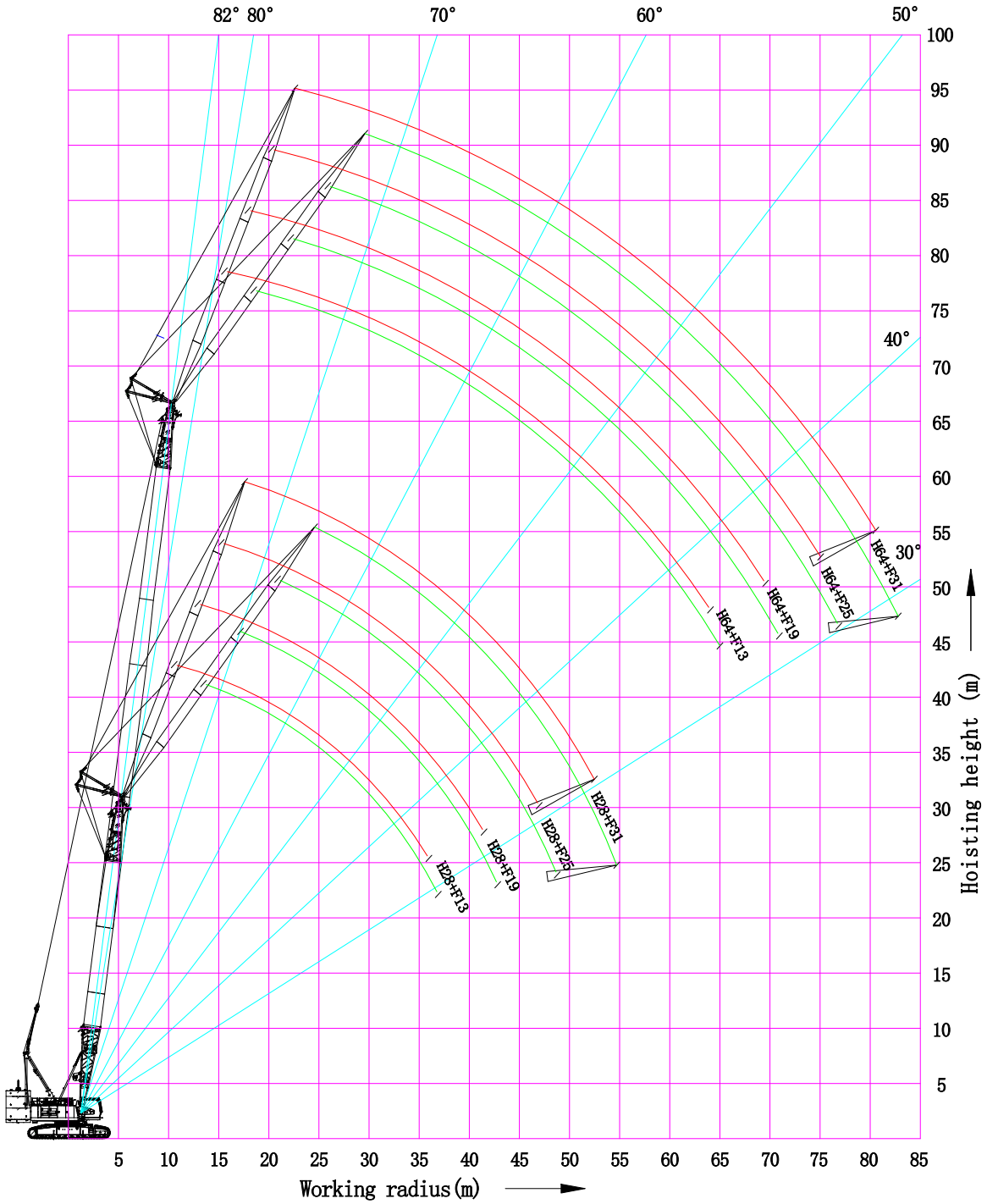
2. "*" main boom combination requires the use of center hitch.

3. "●" -- boom can be raised; "×"–boom cannot be raised, this working condition cannot be used.

4. Tower jib rear pendant need to be removed from boom sections. Jib guide pulley need to be installed on boom top.

5. When boom and jib combination length exceeds 71m, if the condition permits, it is suggested to use wedge to assist boom raising to ensure the safety.

4.3 Working range in light-duty fixed jib working condition (LF) – without hook on main boom



Working radange of light duty fixed jib working condition (HF2)

4.4 Lifting capacity tables in light-duty fixed jib(LF) working condition – without hook on boom (counterweight combination 62t+8t)

Notes:

1. The weight of hook, sling, and rope on hook and boom head must be deducted from the rated lifting capacity in the table.
2. The rated lifting capacity in the table is the value of the crane on level and solid ground with gradient not exceed 1%, slowly lifting a load and without travel.
3. The rated load refers to the value when load is suspended freely. The influence of wind on lifting load, ground condition, ground slope, operating speed and any other factors that have negative influence on the safe operation of the equipment are not considered. Therefore, it is the operator's responsibility to assess the current situation and reduce the load and speed accordingly.
4. For boom length with "*", center hitch must be used; boom +jib combined length exceeds 71m, a wedge block must be used for boom raising.
5. Use auxiliary hoisting wire rope for reeving operation.
6. When using fixing jib F13, the fixed jib must use a hook with weight not less 1.7t.

A、Installation angle between boom and jib is 15°

Radius/m	Jib installation angle 15°													Radius/m
	Jib length 13m													
	Boom length(m)													
	28	31	34	37	40	43	46	49	52	*55	*58	*61	*64	
12	25	23.5	23.2											12
14	23.2	23.2	23.2	24.6	24.6	24.6	24.6							14
16	23.2	23.2	23.2	24.6	24.6	24.6	24.6	24.6	24.6	18.1	16.3			16
18	21.9	22.8	23.2	24.4	24.6	24.6	24.6	24.6	24.6	17	15.2	14.3	16.5	18
20	20.3	21.1	21.9	22.7	23.4	24.1	24.6	24.6	24.6	16.1	14.3	13.3	15.6	20
22	18.8	19.7	20.4	21.2	21.9	22.6	23.2	23.8	24.4	15.2	13.4	12.5	14.7	22
24	17.6	18.4	19.2	19.9	20.6	21.2	21.9	22.5	22.7	14.4	12.7	11.8	13.9	24
26	16.5	17.3	18.1	18.8	19.4	20.1	20.5	20.4	20.2	13.7	12	11.1	13.2	26
28	15.6	16.4	17.1	17.8	18.4	18.6	18.4	18.3	18.1	13	11.4	10.5	12.6	28
30	14.8	15.5	16.2	16.9	17	16.8	16.7	16.5	16.3	12.4	10.8	9.9	12	30
32	14.1	14.8	15.4	15.7	15.5	15.3	15.1	14.9	14.7	11.9	10.3	9.4	11.5	32
34	13.4	14.1	14.5	14.3	14.1	14	13.8	13.6	13.4	11.4	9.8	8.9	11	34
36	12.9	13.5	13.3	13.2	12.9	12.8	12.6	12.4	12.2	11	9.4	8.5	10.5	36
38	12.4	12.5	12.3	12.1	11.9	11.8	11.6	11.4	11.2	10.5	9	8.1	10.1	38
40		11.6	11.4	11.2	11	10.8	10.6	10.4	10.2	10	8.6	7.8	9.7	40
42			10.5	10.3	10.1	10	9.8	9.6	9.4	9.2	8.3	7.4	8.9	42
44			9.8	9.6	9.4	9.2	9	8.8	8.6	8.4	8	7.1	8.2	44
46				8.9	8.7	8.5	8.3	8.1	7.9	7.7	7.6	6.8	7.5	46
48					8	7.9	7.7	7.5	7.3	7.1	7	6.6	6.8	48
50						7.3	7.1	6.9	6.7	6.5	6.4	6.2	6.3	50
52							6.6	6.4	6.2	6	5.9	5.7	5.7	52
54							6.1	5.9	5.7	5.5	5.4	5.2	5.2	54
56								5.4	5.2	5	4.9	4.8	4.8	56
58									4.8	4.6	4.5	4.3	4.4	58
60										4.2	4.1	3.9	4	60
62										3.8	3.7	3.6	3.6	62
64											3.4	3.2	3.2	64
66												2.9	2.9	66
68													2.6	68
70													2.3	70

Radius/m	Jib installation angle 15°													Radius/m
	Jib length 19m													
	Boom length(m)													
	28	31	34	37	40	43	46	49	52	*55	*58	*61	*64	
14	20.7	20.7												14
16	19.9	20	20.1	20.2	20.2	20								16
18	18.5	19.1	19.5	19.6	19.7	19.7	19.5	19.2	18.9	13.3	12.1			18
20	17.1	17.7	18.2	18.7	19.2	19.2	19.2	19	18.7	12.6	11.4	10.9	12.4	20
22	15.9	16.4	17	17.5	18	18.4	18.8	18.7	18.5	11.9	10.7	10.2	11.7	22
24	14.8	15.4	15.9	16.4	16.9	17.4	17.8	18.2	18.3	11.3	10.1	9.6	11.2	24
26	13.9	14.4	15	15.5	15.9	16.4	16.8	17.2	17.6	10.7	9.6	9.1	10.6	26
28	13.1	13.6	14.1	14.6	15.1	15.5	16	16.4	16.8	10.2	9.1	8.6	10.1	28
30	12.4	12.9	13.4	13.9	14.3	14.8	15.2	15.6	16	9.7	8.7	8.1	9.7	30
32	11.8	12.3	12.7	13.2	13.6	14.1	14.5	14.9	15.2	9.3	8.3	7.7	9.3	32
34	11.2	11.7	12.1	12.6	13	13.4	13.8	14	13.8	8.9	7.9	7.3	8.9	34
36	10.7	11.2	11.6	12	12.5	12.9	13	12.8	12.6	8.5	7.5	7	8.5	36
38	10.2	10.7	11.1	11.5	11.9	12.2	12	11.8	11.6	8.2	7.2	6.7	8.2	38
40	9.8	10.3	10.7	11.1	11.4	11.2	11	10.8	10.6	7.9	6.9	6.4	7.9	40
42	9.5	9.9	10.3	10.7	10.5	10.4	10.2	10	9.8	7.6	6.6	6.1	7.6	42
44	9.1	9.5	9.9	10	9.8	9.6	9.4	9.2	9	7.4	6.4	5.8	7.3	44
46		9.2	9.4	9.3	9.1	8.9	8.7	8.5	8.3	7.1	6.2	5.6	7.1	46
48			8.8	8.6	8.4	8.3	8.1	7.9	7.7	6.9	5.9	5.4	6.8	48
50				8	7.8	7.7	7.5	7.3	7.1	6.7	5.7	5.2	6.6	50
52				7.5	7.3	7.1	6.9	6.8	6.6	6.4	5.5	5	6.1	52
54					6.8	6.6	6.4	6.3	6.1	5.9	5.4	4.8	5.6	54
56						6.2	6	5.8	5.6	5.4	5.2	4.6	5.1	56
58							5.6	5.4	5.2	5	4.9	4.5	4.7	58
60							5.1	5	4.8	4.6	4.5	4.3	4.3	60
62								4.6	4.4	4.2	4.1	3.9	3.9	62
64									4	3.8	3.7	3.6	3.6	64
66										3.5	3.4	3.2	3.2	66
68										3.2	3.1	2.9	2.9	68
70											2.8	2.6	2.6	70
72												2.3	2.4	72
74													2.1	74

Radius/m	Jib installation angle 15°													Radius/m
	Jib length 25m													
	Boom length(m)													
	28	31	34	37	40	43	46	49	52	*55	*58	*61	*64	
16	15.4	15.4												16
18	15.1	15	15	14.9	14.8	14.7								18
20	14.7	14.7	14.7	14.6	14.5	14.5	14.3	14.2	14	10.4				20
22	14.2	14.3	14.4	14.3	14.3	14.2	14.1	14	13.8	9.9	9.1	8.7	9.7	22
24	13.3	13.7	14	14	14	14	13.9	13.8	13.7	9.4	8.6	8.2	9.3	24
26	12.5	12.9	13.3	13.7	13.8	13.7	13.7	13.6	13.5	8.9	8.1	7.7	8.8	26
28	11.7	12.1	12.5	12.9	13.3	13.5	13.5	13.4	13.3	8.5	7.7	7.3	8.5	28
30	11.1	11.5	11.9	12.2	12.6	12.9	13.2	13.2	13.1	8.1	7.3	7	8.1	30
32	10.5	10.9	11.3	11.6	12	12.3	12.6	12.9	12.9	7.7	7	6.6	7.7	32
34	10	10.3	10.7	11.1	11.4	11.7	12	12.3	12.6	7.4	6.6	6.3	7.4	34
36	9.5	9.9	10.2	10.6	10.9	11.2	11.5	11.8	12.1	7.1	6.3	6	7.1	36
38	9.1	9.4	9.8	10.1	10.4	10.7	11	11.3	11.6	6.8	6.1	5.7	6.9	38
40	8.7	9	9.4	9.7	10	10.3	10.6	10.9	11	6.5	5.8	5.4	6.6	40
42	8.3	8.7	9	9.3	9.6	9.9	10.2	10.3	10.1	6.3	5.6	5.2	6.4	42
44	8	8.3	8.7	9	9.3	9.6	9.7	9.5	9.3	6.1	5.3	5	6.1	44
46	7.7	8	8.3	8.6	8.9	9.2	9	8.8	8.6	5.9	5.1	4.8	5.9	46
48	7.5	7.8	8.1	8.3	8.6	8.6	8.4	8.2	8	5.7	4.9	4.6	5.7	48
50	7.2	7.5	7.8	8.1	8.1	8	7.8	7.6	7.4	5.5	4.8	4.4	5.5	50
52		7.3	7.6	7.8	7.6	7.4	7.2	7	6.9	5.3	4.6	4.2	5.4	52
54			7.3	7.3	7.1	6.9	6.7	6.5	6.3	5.1	4.4	4.1	5.2	54
56				6.8	6.6	6.5	6.3	6.1	5.9	5	4.3	3.9	5	56
58				6.4	6.2	6	5.8	5.7	5.5	4.9	4.2	3.8	4.9	58
60					5.8	5.6	5.4	5.3	5.1	4.7	4	3.6	4.6	60
62						5.3	5.1	4.9	4.7	4.5	3.9	3.5	4.2	62
64							4.7	4.5	4.3	4.1	3.8	3.4	3.8	64
66								4.2	4	3.8	3.7	3.3	3.5	66
68								3.9	3.7	3.5	3.4	3.2	3.2	68
70									3.4	3.2	3.1	2.9	2.9	70
72										2.9	2.8	2.6	2.6	72
74											2.5	2.4	2.4	74
76											2.3	2.1	2.1	76
78												1.9	1.9	78
80													1.6	80

Radius/m	Jib installation angle 15°													Radius/m
	Jib length 31m													
	Boom length(m)													
	28	31	34	37	40	43	46	49	52	*55	*58	*61	*64	
18	11.4	11.4												18
20	11.1	11.1	11.1	11	11	10.9								20
22	10.8	10.8	10.8	10.8	10.8	10.7	10.7	10.6	10.5	8.6				22
24	10.5	10.5	10.5	10.6	10.5	10.5	10.5	10.4	10.4	8.1	7.5	7.2	8	24
26	10.2	10.2	10.3	10.3	10.3	10.3	10.3	10.2	10.2	7.7	7.1	6.8	7.6	26
28	9.9	10	10	10	10	10.1	10	10	10	7.3	6.7	6.4	7.3	28
30	9.6	9.7	9.7	9.8	9.8	9.8	9.8	9.8	9.7	7	6.4	6.1	7	30
32	9.4	9.4	9.5	9.5	9.5	9.5	9.5	9.5	9.5	6.7	6.1	5.8	6.7	32
34	9.1	9.2	9.2	9.2	9.2	9.3	9.3	9.3	9.3	6.4	5.8	5.5	6.4	34
36	8.9	9	9	9	9	9.1	9.1	9.1	9.1	6.1	5.5	5.2	6.1	36
38	8.4	8.7	8.7	8.8	8.8	8.9	8.9	8.9	8.9	5.8	5.3	5	5.9	38
40	8.1	8.4	8.5	8.6	8.6	8.7	8.7	8.7	8.7	5.6	5	4.8	5.7	40
42	7.7	8	8.3	8.4	8.4	8.5	8.5	8.5	8.5	5.4	4.8	4.5	5.5	42
44	7.4	7.7	8	8.2	8.2	8.3	8.3	8.3	8.3	5.2	4.6	4.3	5.3	44
46	7.1	7.4	7.7	7.9	8	8.1	8.1	8.1	8.1	5	4.4	4.1	5.1	46
48	6.9	7.1	7.4	7.6	7.8	7.9	7.9	8	8	4.8	4.3	4	4.9	48
50	6.6	6.9	7.1	7.4	7.6	7.8	7.8	7.8	7.6	4.7	4.1	3.8	4.7	50
52	6.4	6.6	6.9	7.1	7.4	7.6	7.4	7.3	7.1	4.5	3.9	3.6	4.6	52
54	6.2	6.4	6.7	6.9	7.1	7.1	6.9	6.8	6.6	4.4	3.8	3.5	4.4	54
56		6.2	6.5	6.7	6.8	6.7	6.5	6.3	6.1	4.2	3.7	3.4	4.3	56
58		6.1	6.3	6.5	6.4	6.2	6.1	5.9	5.7	4.1	3.5	3.2	4.2	58
60			6.1	6.2	6	5.8	5.7	5.5	5.3	4	3.4	3.1	4.1	60
62				5.8	5.6	5.5	5.3	5.1	4.9	3.9	3.3	3	3.9	62
64					5.3	5.1	4.9	4.7	4.5	3.8	3.2	2.9	3.8	64
66					4.9	4.8	4.6	4.4	4.2	3.7	3.1	2.8	3.7	66
68						4.5	4.3	4.1	3.9	3.6	3	2.7	3.4	68
70							4	3.8	3.6	3.4	2.9	2.6	3.1	70
72								3.5	3.3	3.1	2.9	2.5	2.8	72
74								3.2	3.1	2.9	2.8	2.5	2.6	74
76									2.8	2.6	2.5	2.3	2.3	76
78										2.4	2.3	2.1	2.1	78
80											2	1.9	1.9	80

B. Angle between boom and jib is 30°

Radius/m	Jib installation angle 30°													Radius/m
	Jib length 13m													
	Boom length(m)													
	28	31	34	37	40	43	46	49	52	*55	*58	*61	*64	
14	16.2													14
16	15.2	15.4	15.7	15.9	16.2									16
18	14.3	14.6	14.9	15.1	15.4	15.6	15.8	16	16.1					18
20	13.5	13.8	14.1	14.4	14.6	14.9	15.1	15.3	15.5	12.9	11.8	11.2	12.7	20
22	12.8	13.2	13.5	13.7	14	14.3	14.5	14.7	14.9	12.4	11.2	10.7	12.2	22
24	12.2	12.6	12.9	13.2	13.4	13.7	13.9	14.1	14.4	11.9	10.7	10.1	11.7	24
26	11.7	12	12.4	12.6	12.9	13.2	13.4	13.6	13.9	11.5	10.2	9.6	11.3	26
28	11.2	11.6	11.9	12.2	12.5	12.7	13	13.2	13.4	11	9.8	9.2	10.9	28
30	10.8	11.2	11.5	11.8	12	12.3	12.5	12.8	13	10.6	9.4	8.8	10.5	30
32	10.5	10.8	11.1	11.4	11.6	11.9	12.1	12.4	12.6	10.3	9	8.4	10.1	32
34	10.2	10.5	10.8	11	11.3	11.6	11.8	12	12.2	9.9	8.7	8	9.7	34
36	9.9	10.2	10.5	10.7	11	11.2	11.5	11.7	11.9	9.6	8.4	7.7	9.4	36
38	9.8	10	10.2	10.5	10.7	10.9	11.2	11.4	11.5	9.3	8.1	7.4	9.1	38
40		9.8	10	10.2	10.4	10.7	10.9	10.7	10.5	9.1	7.8	7.1	8.8	40
42		9.7	9.8	10	10.2	10.2	10	9.8	9.6	8.8	7.6	6.8	8.5	42
44			9.7	9.7	9.5	9.4	9.2	9	8.9	8.6	7.3	6.6	8.3	44
46				8.9	8.8	8.7	8.5	8.3	8.1	8	7.1	6.4	7.8	46
48					8.1	8	7.8	7.7	7.5	7.3	6.9	6.2	7.1	48
50						7.4	7.2	7.1	6.9	6.7	6.6	6	6.5	50
52						6.8	6.7	6.5	6.3	6.2	6.1	5.8	5.9	52
54							6.1	6	5.8	5.6	5.6	5.4	5.4	54
56								5.5	5.3	5.2	5.1	4.9	5	56
58									4.9	4.7	4.6	4.5	4.5	58
60									4.4	4.3	4.2	4.1	4.1	60
62										3.9	3.8	3.7	3.7	62
64											3.5	3.3	3.3	64
66												3	3	66
68												2.6	2.7	68
70													2.4	70

Radius/m	Jib installation angle 30°													Radius/m
	Jib length 19m													
	Boom length(m)													
	28	31	34	37	40	43	46	49	52	*55	*58	*61	*64	
18	11.7	11.9												18
20	11	11.2	11.4	11.6	11.7	11.8								20
22	10.4	10.6	10.8	11	11.2	11.3	11.5	11.6	11.7	9.4				22
24	9.9	10.1	10.3	10.5	10.7	10.8	11	11.1	11.3	9	8.3	8	8.9	24
26	9.5	9.7	9.9	10.1	10.3	10.4	10.6	10.7	10.9	8.7	8	7.6	8.6	26
28	9.1	9.3	9.5	9.7	9.9	10	10.2	10.3	10.5	8.4	7.7	7.3	8.3	28
30	8.7	8.9	9.1	9.3	9.5	9.7	9.8	10	10.1	8.1	7.4	7	8	30
32	8.4	8.6	8.8	9	9.2	9.4	9.5	9.7	9.8	7.8	7.1	6.7	7.8	32
34	8.1	8.3	8.5	8.7	8.9	9.1	9.2	9.4	9.5	7.6	6.8	6.4	7.5	34
36	7.8	8	8.2	8.4	8.6	8.8	8.9	9.1	9.3	7.3	6.6	6.2	7.3	36
38	7.6	7.8	8	8.2	8.4	8.5	8.7	8.9	9	7.1	6.3	5.9	7.1	38
40	7.4	7.6	7.8	7.9	8.1	8.3	8.5	8.6	8.8	6.9	6.1	5.7	6.9	40
42	7.2	7.4	7.6	7.7	7.9	8.1	8.2	8.4	8.6	6.7	5.9	5.5	6.7	42
44	7.1	7.2	7.4	7.6	7.7	7.9	8.1	8.2	8.4	6.5	5.7	5.3	6.5	44
46		7.1	7.2	7.4	7.6	7.7	7.9	8	8.2	6.4	5.5	5.1	6.3	46
48		7	7.1	7.3	7.4	7.6	7.7	7.8	7.9	6.2	5.4	4.9	6.2	48
50			7	7.1	7.3	7.4	7.6	7.5	7.3	6.1	5.2	4.8	6	50
52				7.1	7.2	7.3	7.1	6.9	6.7	5.9	5.1	4.6	5.9	52
54					6.8	6.7	6.6	6.4	6.2	5.8	5	4.5	5.7	54
56						6.2	6.1	5.9	5.7	5.6	4.8	4.3	5.4	56
58						5.7	5.6	5.4	5.3	5.1	4.7	4.2	4.9	58
60							5.2	5	4.8	4.7	4.6	4.1	4.5	60
62								4.6	4.4	4.3	4.2	4	4.1	62
64									4.1	3.9	3.8	3.7	3.7	64
66									3.7	3.5	3.5	3.3	3.4	66
68										3.2	3.1	3	3	68
70											2.8	2.7	2.7	70
72												2.4	2.4	72
74												2.1	2.1	74
76													1.8	76

Radius/m	Jib installation angle 30°													Radius/m
	Jib length 25m													
	Boom length(m)													
	28	31	34	37	40	43	46	49	52	*55	*58	*61	*64	
22	9.2	9.3	9.4											22
24	8.7	8.8	9	9.1	9.2	9.3	9.4							24
26	8.3	8.4	8.6	8.7	8.8	8.9	9	9.1	9.2	7	6.6			26
28	7.9	8	8.2	8.3	8.4	8.6	8.7	8.8	8.9	6.8	6.3	6	6.7	28
30	7.5	7.7	7.8	8	8.1	8.2	8.4	8.5	8.6	6.5	6.1	5.8	6.4	30
32	7.2	7.4	7.5	7.7	7.8	7.9	8.1	8.2	8.3	6.3	5.8	5.6	6.3	32
34	6.9	7.1	7.3	7.4	7.6	7.7	7.8	7.9	8	6.1	5.6	5.3	6.1	34
36	6.7	6.9	7	7.2	7.3	7.4	7.6	7.7	7.8	5.9	5.4	5.1	5.9	36
38	6.5	6.6	6.8	6.9	7.1	7.2	7.3	7.4	7.6	5.7	5.2	5	5.7	38
40	6.2	6.4	6.6	6.7	6.9	7	7.1	7.2	7.4	5.6	5	4.8	5.6	40
42	6.1	6.2	6.4	6.5	6.7	6.8	6.9	7	7.2	5.4	4.9	4.6	5.4	42
44	5.9	6	6.2	6.3	6.5	6.6	6.7	6.9	7	5.3	4.7	4.4	5.3	44
46	5.7	5.9	6	6.2	6.3	6.4	6.6	6.7	6.8	5.1	4.5	4.3	5.1	46
48	5.6	5.8	5.9	6	6.2	6.3	6.4	6.5	6.6	5	4.4	4.1	5	48
50	5.5	5.6	5.8	5.9	6	6.1	6.3	6.4	6.5	4.8	4.3	4	4.9	50
52		5.5	5.7	5.8	5.9	6	6.1	6.2	6.4	4.7	4.1	3.8	4.8	52
54		5.5	5.6	5.7	5.8	5.9	6	6.1	6.2	4.6	4	3.7	4.6	54
56			5.5	5.6	5.7	5.8	5.9	6	6.1	4.5	3.9	3.6	4.5	56
58				5.5	5.6	5.7	5.8	5.8	5.6	4.4	3.8	3.5	4.5	58
60					5.5	5.6	5.5	5.4	5.2	4.3	3.7	3.4	4.4	60
62						5.3	5.1	5	4.8	4.3	3.6	3.3	4.3	62
64						4.9	4.7	4.6	4.4	4.2	3.5	3.2	4	64
66							4.3	4.2	4	3.9	3.5	3.1	3.7	66
68								3.8	3.7	3.5	3.4	3	3.3	68
70									3.4	3.2	3.1	2.9	3	70
72									3	2.9	2.8	2.7	2.7	72
74										2.6	2.5	2.4	2.4	74
76											2.3	2.1	2.1	76
78												1.8	1.9	78
80													1.6	80

Radius/m	Jib installation angle 30°													Radius/m
	Jib length 31m													
	Boom length(m)													
	28	31	34	37	40	43	46	49	52	*55	*58	*61	*64	
26	7.6	7.7	7.8	7.9										26
28	7.2	7.4	7.5	7.6	7.6	7.7	7.8	7.9						28
30	6.9	7	7.1	7.2	7.3	7.4	7.5	7.6	7.7	5.5	5.2	5	5.4	30
32	6.6	6.7	6.8	7	7.1	7.2	7.2	7.3	7.4	5.3	5	4.8	5.2	32
34	6.3	6.5	6.6	6.7	6.8	6.9	7	7.1	7.2	5.2	4.8	4.6	5.1	34
36	6.1	6.2	6.3	6.4	6.6	6.7	6.8	6.8	6.9	5	4.6	4.4	4.9	36
38	5.8	6	6.1	6.2	6.3	6.4	6.5	6.6	6.7	4.8	4.4	4.2	4.8	38
40	5.6	5.8	5.9	6	6.1	6.2	6.3	6.4	6.5	4.7	4.3	4.1	4.6	40
42	5.4	5.6	5.7	5.8	5.9	6	6.1	6.2	6.3	4.5	4.1	3.9	4.5	42
44	5.3	5.4	5.5	5.6	5.8	5.9	6	6.1	6.2	4.4	4	3.8	4.4	44
46	5.1	5.2	5.4	5.5	5.6	5.7	5.8	5.9	6	4.3	3.8	3.6	4.3	46
48	5	5.1	5.2	5.3	5.4	5.5	5.7	5.8	5.8	4.1	3.7	3.5	4.1	48
50	4.8	5	5.1	5.2	5.3	5.4	5.5	5.6	5.7	4	3.6	3.4	4	50
52	4.7	4.8	4.9	5.1	5.2	5.3	5.4	5.5	5.6	3.9	3.5	3.3	3.9	52
54	4.6	4.7	4.8	4.9	5	5.2	5.3	5.3	5.4	3.8	3.4	3.2	3.8	54
56	4.5	4.6	4.7	4.8	4.9	5	5.1	5.2	5.3	3.7	3.3	3	3.8	56
58		4.5	4.6	4.7	4.8	4.9	5	5.1	5.2	3.6	3.2	2.9	3.7	58
60			4.6	4.6	4.7	4.8	4.9	5	5.1	3.6	3.1	2.8	3.6	60
62			4.5	4.6	4.7	4.7	4.8	4.9	5	3.5	3	2.7	3.5	62
64				4.5	4.6	4.7	4.7	4.8	4.7	3.4	2.9	2.7	3.4	64
66					4.5	4.6	4.6	4.5	4.3	3.3	2.8	2.6	3.4	66
68						4.4	4.3	4.1	4	3.3	2.8	2.5	3.3	68
70						4.1	3.9	3.8	3.6	3.2	2.7	2.4	3.2	70
72							3.6	3.5	3.3	3.2	2.7	2.4	3	72
74								3.2	3	2.9	2.6	2.3	2.7	74
76									2.7	2.6	2.5	2.2	2.4	76
78									2.5	2.3	2.3	2.1	2.1	78
80										2.1	2	1.9	1.9	80

5. Tower jib working condition

5.1 Boom/ jib combinations in tower jib (HW) working condition – without tower jib single top

Boom combinations in tower jib (HW) working condition

Name / Boom length	Boom butt 8m	boom insert 3 mA per segment	boom insert 6 mA per segment	boom insert 12 mA per segment	6m boom transition section	boom top section 5m
HB19	1	0	0	0	1	1
HB22	1	1	0	0	1	1
HB25	1	0	1	0	1	1
HB28	1	1	1	0	1	1
HB31	1	0	0	1	1	1
HB34	1	1	0	1	1	1
HB37	1	0	1	1	1	1
HB40	1	1	1	1	1	1
HB43	1	0	0	2	1	1
HB46	1	1	0	2	1	1
HB49	1	0	1	2	1	1
HB52	1	1	1	2	1	1

Jib combinations in tower jib (HW) working condition

Name and Qty. / Jib length	Jib butt 5m	Insert section 3mB	Insert section 6mB	Insert section 12mB	Jib transition section 5m	Insert section 3mC	Insert section 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	2	1	1	1	1	1
*W52	1	1	2	1	1	2	1	1

Notes:

1. For tower jib length with "*", center hitch need to be used.
2. Tower jib rear pendant need to be installed on boom sections. Tower jib guide pulley need to be installed on boom transition section.
3. When boom and jib combination length exceeds 71m, it is suggested to use wedge to assist boom raising.

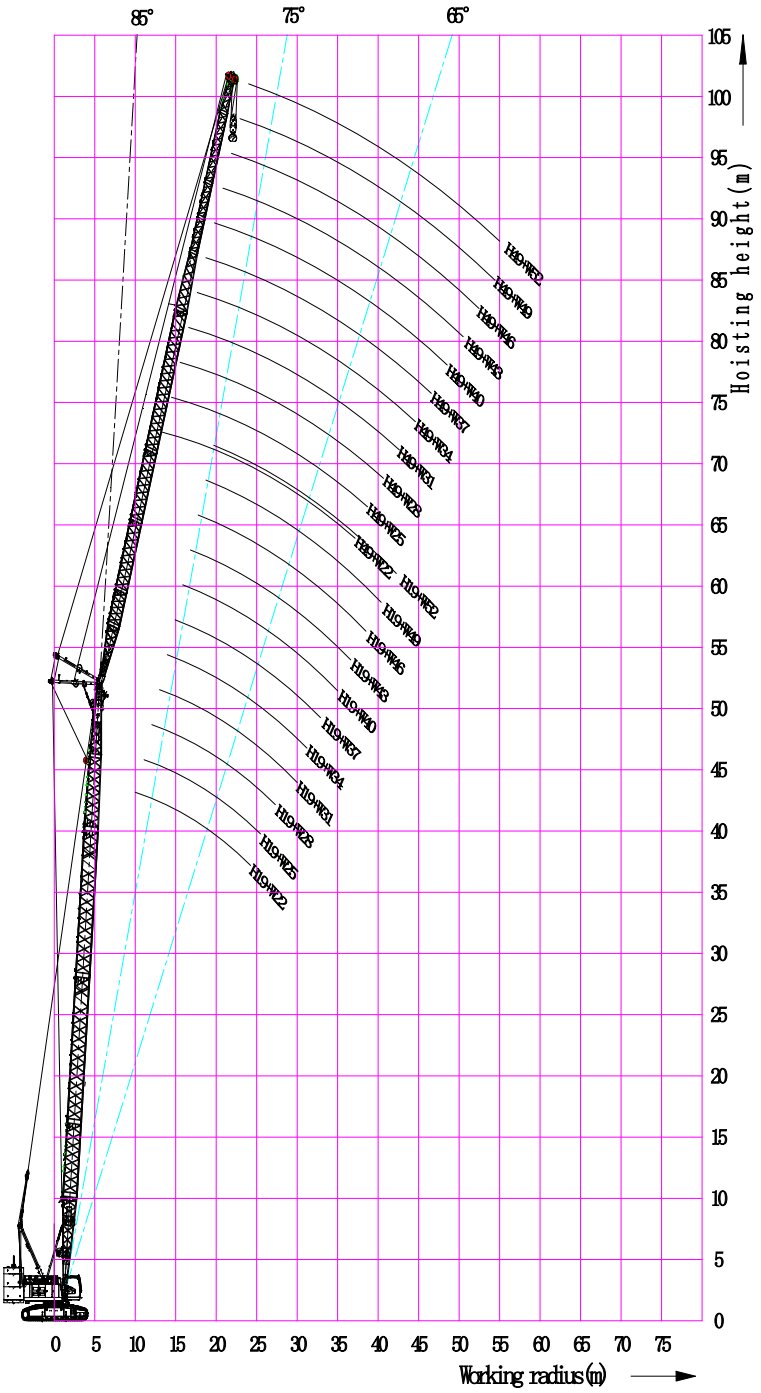
5.2 Boom raising table in tower jib (HW) working condition – without tower jib single top (counterweight combination 62t+8t)

Main boom / Tower jib	HB19	HB22	HB25	HB28	HB31	HB34	HB37	HB40	HB43	HB46	HB49	HB52
W22	●	●	●	●	●	●	●	●	●	●	●	●
W25	●	●	●	●	●	●	●	●	●	●	●	●
W28	●	●	●	●	●	●	●	●	●	●	●	●
W31	●	●	●	●	●	●	●	●	●	●	●	●
W34	●	●	●	●	●	●	●	●	●	●	●	●
W37	●	●	●	●	●	●	●	●	●	●	●	●
W40	●	●	●	●	●	●	●	●	●	●	●	×
*W43	●	●	●	●	●	●	●	●	●	●	●	×
*W46	●	●	●	●	●	●	●	●	●	●	●	×
*W49	●	●	●	●	●	●	●	●	●	●	●	×
*W52	●	●	●	●	●	●	●	●	●	●	●	×

Notes:

1. **When raising the boom, place the track drive roller behind the crane body.**
2. **"●" -- boom can be raised; "×"–boom cannot be raised, this working condition cannot be used.**
3. **For tower jib length with"*", center hitch must be used.**
4. **Tower jib rear pendant need to be installed on boom sections. Tower jib guide pulley need to be installed on boom transition section.**
5. **When boom and tower jib combination length exceeds 71m, if the condition permits, it is suggested to use wedge to assist boom raising to ensure the safety.**

5.3 Working range in tower jib (HW) working condition – without tower jib single pulley



Working radius of tower jib main hook under tower jib working condition_without boom end single pulley (HW/1)

5.4 Lifting capacity tables in tower jib (HW) working condition –without tower jib single pulley (counterweight combination 62t+8t)

Notes:

1. The weight of hook, sling, and rope on hook and boom head must be deducted from the rated lifting capacity in the table.
2. The rated lifting capacity in the table is the value of the crane on level and solid ground with gradient not exceed 1%, slowly lifting a load and without travel.
3. The rated load refers to the value when load is suspended freely. The influence of wind on lifting load, ground condition, ground slope, operating speed and any other factors that have negative influence on the safe operation of the equipment are not considered. Therefore, it is the operator's responsibility to assess the current situation and reduce the load and speed accordingly.
4. For tower jib length marked with"*", center hitch needs to be used; when boom and jib combination length exceeds 71m, it is suggested to use wedge block to assist boom raising.
5. use main hoisting rope for reeving operation.
6. Tower jib top is not installed with the single top unit.

A. Boom angle 85°

Boom length 19m, boom working angle 85°, without tower jib single pulley, counterweight 62+8t												
Radius (m)	Tower jib length/m											Radius (m)
	22	25	28	31	34	37	40	*43	*46	*49	*52	
11	45											11
12	42	40.4										12
13	38.5	37.6	36.1									13
14	35.4	34.6	33.7	32.4								14
15	32	32	31.2	30.3	29.2							15
16	29	29.2	28.8	28.2	27.4	26.4	24.2					16
17	26.6	26.7	26.5	26	25.5	24.8	24	15.2				17
18	24.4	24.6	24.3	23.9	23.5	23	22.5	14	15			18
19	22.6	22.7	22.5	22.1	21.7	21.3	20.9	12.9	13.8	13		19
20	20.9	21.1	20.8	20.4	20.1	19.7	19.3	12	12.8	12.7	10	20
22	18.1	18.2	18	17.7	17.4	17.1	16.8	10.3	11.1	11.6	9.4	22
24	14	15.8	15.7	15.5	15.3	15	14.7	8.9	9.7	10.1	8.9	24
26		13.7	13.8	13.7	13.5	13.3	13	7.7	8.5	8.9	8.5	26
28			12.2	12.2	12	11.8	11.6	6.7	7.5	7.8	8	28
30			9.9	10.8	10.7	10.6	10.4	5.8	6.6	6.9	7.1	30
32				9.6	9.6	9.5	9.3	5	5.9	6.1	6.3	32
34					8.6	8.6	8.4	4.3	5.2	5.5	5.6	34
36					7.1	7.7	7.6	3.7	4.6	4.8	5	36
38						6.9	6.9	3.1	4	4.3	4.4	38
40							6.2	2.6	3.4	3.8	3.9	40
42								2.2	2.8	3.3	3.5	42
44								1.7	2.3	2.9	3	44
46									1.7	2.4	2.7	46
48										2	2.3	48
50											1.9	50

Boom length 22m, boom working angle 85°, without tower jib single pulley, counterweight 62+8t												
Radius (m)	Tower jib length/m											Radius (m)
	22	25	28	31	34	37	40	*43	*46	*49	*52	
11	45											11
12	43	40.1										12
13	39.5	38.5	35.7									13
14	36.3	35.4	34.4	32								14
15	33	32.8	31.8	31	28.9							15
16	29.9	30.1	29.5	28.8	27.9	26.1						16
17	27.3	27.5	27.2	26.6	26	25.3	23.7					17
18	25.1	25.2	24.9	24.5	24	23.5	22.9	14.3				18
19	23.1	23.3	23	22.6	22.1	21.7	21.3	13.2	14.1			19
20	21.4	21.6	21.3	20.9	20.5	20.1	19.7	12.2	13.1	12.7	10	20
22	18.6	18.6	18.4	18.1	17.8	17.4	17.1	10.5	11.3	11.8	9.4	22
24	15.9	16.2	16.1	15.9	15.6	15.3	15	9.1	9.9	10.3	8.9	24
26		14.1	14.1	14	13.8	13.6	13.3	7.9	8.7	9.1	8.5	26
28			12.5	12.4	12.3	12.1	11.8	6.9	7.7	8	8.1	28
30			10.9	11.1	11	10.8	10.6	6	6.8	7.1	7.2	30
32				9.8	9.8	9.7	9.5	5.2	6	6.3	6.4	32
34					8.8	8.8	8.6	4.5	5.3	5.6	5.7	34
36					7.8	7.9	7.8	3.8	4.7	5	5.1	36
38						7.1	7	3.3	4.1	4.4	4.5	38
40							6.3	2.8	3.5	3.9	4	40
42							5.7	2.3	3	3.5	3.6	42
44								1.8	2.4	3	3.1	44
46									1.9	2.6	2.8	46
48										2.1	2.4	48
50										1.6	2	50
52											1.6	52

Boom length 25m, boom working angle 85°, without tower jib single pulley, counterweight 62+8t												
Radius (m)	Tower jib length/m											Radius (m)
	22	25	28	31	34	37	40	*43	*46	*49	*52	
11	44.6											11
12	43.9	39.5										12
13	40.3	39.1	35.2									13
14	37.1	36.1	34.9	31.6								14
15	33.9	33.4	32.4	31.3	28.4							15
16	30.7	30.9	30.1	29.3	28.2	25.7						16
17	28	28.2	27.8	27.2	26.4	25.5	23.3					17
18	25.7	25.8	25.5	25	24.5	23.9	23.1	14.6				18
19	23.7	23.8	23.5	23	22.6	22.1	21.7	13.5	14.4			19
20	21.9	22.1	21.7	21.3	20.9	20.5	20.1	12.5	13.3	12.8		20
22	19	19	18.8	18.5	18.1	17.8	17.4	10.8	11.6	12	9.5	22
24	16.4	16.6	16.4	16.2	15.9	15.6	15.2	9.3	10.1	10.5	9	24
26		14.4	14.4	14.3	14	13.8	13.5	8.1	8.8	9.2	8.5	26
28			12.7	12.7	12.5	12.3	12	7.1	7.8	8.1	8.1	28
30			11.2	11.3	11.2	11	10.8	6.1	6.9	7.2	7.4	30
32				10.1	10	9.9	9.7	5.3	6.1	6.4	6.5	32
34					9	8.9	8.7	4.6	5.4	5.7	5.8	34
36					8	8	7.9	4	4.8	5.1	5.2	36
38						7.2	7.1	3.4	4.2	4.5	4.6	38
40							6.5	2.9	3.7	4	4.1	40
42							5.8	2.4	3.1	3.5	3.6	42
44								1.9	2.6	3.1	3.2	44
46									2	2.7	2.8	46
48										2.2	2.5	48
50										1.7	2.1	50
52											1.7	52

Boom length 28m, boom working angle 85°, without tower jib single pulley, counterweight 62+8t												
Radius (m)	Tower jib length/m											Radius (m)
	22	25	28	31	34	37	40	*43	*46	*49	*52	
12	43.2											12
13	41	38.3										13
14	37.8	36.7	34.2	30.9								14
15	34.9	34	32.9	30.7	27.8							15
16	31.6	31.5	30.6	29.7	27.7	25.1						16
17	28.7	28.9	28.4	27.6	26.8	25	22.8					17
18	26.3	26.5	26	25.5	24.9	24.3	22.7	14.9				18
19	24.2	24.4	23.9	23.5	23	22.5	22	13.7	14.6			19
20	22.4	22.6	22.1	21.7	21.3	20.9	20.4	12.7	13.6	12.8		20
22	19.4	19.4	19.2	18.8	18.4	18.1	17.7	11	11.7	12.1	9.5	22
24	16.8	16.9	16.7	16.5	16.1	15.8	15.5	9.5	10.2	10.7	9	24
26		14.8	14.7	14.5	14.3	14	13.7	8.3	9	9.4	8.5	26
28		12.8	13	12.9	12.7	12.5	12.2	7.2	7.9	8.3	8.2	28
30			11.5	11.5	11.4	11.2	10.9	6.3	7	7.3	7.5	30
32				10.3	10.2	10	9.8	5.5	6.2	6.5	6.7	32
34				9.1	9.1	9.1	8.9	4.7	5.5	5.8	5.9	34
36					8.2	8.2	8	4.1	4.9	5.2	5.3	36
38						7.4	7.3	3.5	4.3	4.6	4.7	38
40							6.6	3	3.8	4.1	4.2	40
42							5.9	2.5	3.2	3.6	3.7	42
44								2	2.7	3.2	3.3	44
46									2.1	2.8	2.9	46
48									1.6	2.3	2.5	48
50										1.8	2.2	50
52											1.8	52

Boom length 31m, boom working angle 85°, without tower jib single pulley, counterweight 62+8t												
Radius (m)	Tower jib length/m											Radius (m)
	22	25	28	31	34	37	40	*43	*46	*49	*52	
12	42.2											12
13	41.6	37.5										13
14	38.4	37.2	33.5									14
15	35.5	34.5	33.3	30.1								15
16	32.4	32.1	31	29.9	27.1							16
17	29.4	29.6	28.9	28.1	27	24.5						17
18	26.9	27.1	26.6	26	25.3	24.4	22.2	15.1				18
19	24.8	24.9	24.4	23.9	23.4	22.9	22.1	14	14.9			19
20	22.9	23	22.6	22.1	21.7	21.2	20.8	12.9	13.8	12.8		20
22	19.7	19.9	19.5	19.1	18.7	18.4	18	11.1	11.9	12.2	9.6	22
24	17.2	17.2	17	16.7	16.4	16.1	15.7	9.7	10.4	10.8	9	24
26		15.1	15	14.8	14.5	14.2	13.9	8.4	9.1	9.5	8.6	26
28		13.1	13.2	13.1	12.9	12.7	12.4	7.3	8.1	8.4	8.2	28
30			11.7	11.7	11.5	11.3	11.1	6.4	7.1	7.4	7.6	30
32				10.5	10.4	10.2	10	5.6	6.3	6.6	6.8	32
34				9.3	9.3	9.2	9	4.8	5.6	5.9	6	34
36					8.3	8.3	8.2	4.2	5	5.2	5.4	36
38						7.5	7.4	3.6	4.4	4.7	4.8	38
40						6.7	6.7	3	3.9	4.2	4.3	40
42							6	2.6	3.3	3.7	3.8	42
44								2.1	2.8	3.3	3.4	44
46									2.2	2.8	3	46
48									1.7	2.4	2.6	48
50										1.9	2.2	50
52											1.8	52

Boom length 34m, boom working angle 85°, without tower jib single pulley, counterweight 62+8t												
Radius (m)	Tower jib length/m											Radius (m)
	22	25	28	31	34	37	40	*43	*46	*49	*52	
12	41.1											12
13	40.8	36.4										13
14	39	36.3	32.6									14
15	36.1	35	32.4	29.3								15
16	33.3	32.5	31.4	29.1	26.4							16
17	30.2	30.2	29.3	28.4	26.3	23.9						17
18	27.6	27.7	27.1	26.5	25.7	23.8	21.7					18
19	25.3	25.5	24.9	24.4	23.9	23.3	21.6	14.2				19
20	23.4	23.5	23	22.5	22	21.6	21.1	13.1	14			20
22	20.1	20.2	19.8	19.5	19	18.7	18.2	11.3	12.1	12.2	9.6	22
24	17.5	17.6	17.3	17	16.7	16.3	16	9.8	10.6	11	9.1	24
26		15.4	15.2	15	14.7	14.4	14.1	8.6	9.3	9.6	8.6	26
28		13.4	13.5	13.3	13.1	12.8	12.5	7.5	8.2	8.5	8.2	28
30			11.9	11.9	11.7	11.5	11.2	6.5	7.2	7.6	7.7	30
32				10.6	10.5	10.4	10.2	5.7	6.4	6.7	6.8	32
34				9.5	9.5	9.3	9.1	4.9	5.7	6	6.1	34
36					8.5	8.4	8.3	4.3	5.1	5.3	5.4	36
38						7.6	7.5	3.7	4.5	4.7	4.9	38
40						6.8	6.8	3.1	3.9	4.2	4.3	40
42							6.1	2.6	3.4	3.8	3.9	42
44								2.2	2.9	3.3	3.4	44
46								1.7	2.3	2.9	3	46
48									1.8	2.5	2.7	48
50										2	2.3	50
52											1.9	52

Boom length 37m, boom working angle 85°, without tower jib single pulley, counterweight 62+8t												
Radius (m)	Tower jib length/m											Radius (m)
	22	25	28	31	34	37	40	*43	*46	*49	*52	
12	39.8											12
13	39.6	35.4										13
14	38.5	35.3	31.6									14
15	36.6	34.7	31.5	28.4								15
16	34	32.9	31	28.4	25.7							16
17	31	30.7	29.6	27.8	25.6	23.3						17
18	28.2	28.4	27.6	26.7	25	23.2	21.1					18
19	25.9	26	25.4	24.9	24.1	22.6	21.1	14.4				19
20	23.9	24	23.5	22.9	22.4	21.8	20.5	13.3	14.2			20
22	20.5	20.6	20.2	19.8	19.4	19	18.5	11.5	12.3	12.2	9.6	22
24	17.9	17.9	17.6	17.3	16.9	16.6	16.2	10	10.7	11.1	9.1	24
26	15.3	15.7	15.5	15.3	14.9	14.6	14.3	8.7	9.4	9.8	8.6	26
28		13.7	13.7	13.5	13.3	13	12.7	7.6	8.3	8.6	8.2	28
30			12.1	12.1	11.9	11.7	11.4	6.6	7.3	7.6	7.8	30
32				10.8	10.7	10.5	10.3	5.8	6.5	6.8	6.9	32
34				9.6	9.6	9.5	9.3	5	5.8	6.1	6.2	34
36					8.6	8.6	8.4	4.4	5.2	5.4	5.5	36
38						7.7	7.6	3.8	4.6	4.8	4.9	38
40						7	6.9	3.2	4	4.3	4.4	40
42							6.2	2.7	3.5	3.8	3.9	42
44								2.2	3	3.4	3.5	44
46								1.8	2.4	3	3.1	46
48									1.9	2.5	2.7	48
50										2.1	2.4	50
52										1.6	2	52
54											1.6	54

Boom length 40m, boom working angle 85°, without tower jib single pulley, counterweight 62+8t												
Radius (m)	Tower jib length/m											Radius (m)
	22	25	28	31	34	37	40	*43	*46	*49	*52	
13	37.9											13
14	36.2	33.8										14
15	34.3	32.3	30.2									15
16	32.4	30.8	28.9	27.1	24.9							16
17	30.5	29.2	27.7	26.1	24.3	22.5						17
18	28.6	27.6	26.4	25	23.5	22	20.4					18
19	26.5	26.1	25	23.9	22.6	21.3	19.9	14.6				19
20	24.4	24.5	23.7	22.8	21.7	20.5	19.3	13.6	14.4			20
22	20.9	21	20.6	20.1	19.7	18.9	18	11.7	12.5	12.2	9.7	22
24	18.2	18.2	17.9	17.6	17.2	16.8	16.4	10.1	10.9	11.3	9.1	24
26	15.7	15.9	15.8	15.5	15.2	14.8	14.5	8.8	9.5	9.9	8.7	26
28		14	13.9	13.8	13.5	13.2	12.9	7.7	8.4	8.7	8.2	28
30			12.4	12.3	12.1	11.8	11.5	6.7	7.4	7.7	7.9	30
32			10.9	11	10.8	10.6	10.4	5.9	6.6	6.9	7	32
34				9.8	9.8	9.6	9.4	5.1	5.9	6.1	6.3	34
36					8.8	8.7	8.5	4.4	5.2	5.5	5.6	36
38						7.9	7.7	3.8	4.7	4.9	5	38
40						7.1	7	3.3	4.1	4.4	4.5	40
42							6.3	2.8	3.6	3.9	4	42
44								2.3	3	3.4	3.5	44
46								1.9	2.5	3	3.1	46
48									2	2.6	2.8	48
50										2.2	2.4	50
52										1.7	2	52
54											1.6	54

Boom length 43m, boom working angle 85°, without tower jib single pulley, counterweight 62+8t												
Radius (m)	Tower jib length/m											Radius (m)
	22	25	28	31	34	37	40	*43	*46	*49	*52	
13	35.5											13
14	34	31.8										14
15	32.3	30.5	28.4									15
16	30.6	29.1	27.3	25.6								16
17	28.9	27.7	26.2	24.7	23							17
18	27.3	26.2	25	23.7	22.3	20.8						18
19	25.6	24.8	23.8	22.7	21.4	20.2	18.9	14.8				19
20	24.1	23.4	22.6	21.7	20.6	19.5	18.3	13.7	14.6			20
22	21.2	20.8	20.3	19.6	18.9	18	17.1	11.8	12.6	12.3	9.7	22
24	18.5	18.4	18.1	17.7	17.2	16.6	15.8	10.3	11	11.4	9.2	24
26	16.1	16.2	16	15.7	15.4	15.1	14.6	9	9.7	10	8.7	26
28		14.2	14.2	14	13.7	13.4	13.1	7.8	8.5	8.8	8.3	28
30			12.6	12.5	12.2	12	11.7	6.8	7.5	7.8	7.9	30
32			11.1	11.2	11	10.8	10.5	6	6.7	7	7.1	32
34				10	9.9	9.7	9.5	5.2	6	6.2	6.3	34
36					8.9	8.8	8.6	4.5	5.3	5.5	5.7	36
38					8	8	7.8	3.9	4.7	5	5.1	38
40						7.2	7.1	3.4	4.2	4.4	4.5	40
42							6.4	2.8	3.6	3.9	4	42
44							5.8	2.4	3.1	3.5	3.6	44
46								1.9	2.6	3.1	3.2	46
48									2	2.7	2.8	48
50										2.2	2.5	50
52										1.8	2.1	52
54											1.7	54

Boom length 46m, boom working angle 85°, without tower jib single pulley, counterweight 62+8t												
Radius (m)	Tower jib length/m											Radius (m)
	22	25	28	31	34	37	40	*43	*46	*49	*52	
13	33.1											13
14	31.7	29.7										14
15	30.2	28.5	26.6									15
16	28.7	27.2	25.6	24								16
17	27.1	25.9	24.5	23.1	21.7							17
18	25.6	24.6	23.4	22.2	20.9	19.6						18
19	24.1	23.3	22.3	21.3	20.2	19	17.8					19
20	22.7	22	21.2	20.3	19.4	18.3	17.2	13.9				20
22	20	19.6	19.1	18.5	17.7	17	16.1	12	12.8	12.3		22
24	17.6	17.4	17.1	16.7	16.1	15.6	14.9	10.4	11.1	11.5	9.2	24
26	15.5	15.4	15.2	15	14.6	14.2	13.7	9.1	9.8	10.2	8.7	26
28		13.6	13.6	13.4	13.2	12.9	12.6	7.9	8.6	9	8.3	28
30			12.1	12	11.9	11.7	11.5	6.9	7.6	7.9	7.9	30
32			10.7	10.8	10.7	10.6	10.4	6.1	6.8	7.1	7.2	32
34				9.6	9.6	9.6	9.5	5.3	6	6.3	6.4	34
36					8.7	8.7	8.6	4.6	5.4	5.6	5.7	36
38					7.8	7.8	7.8	4	4.8	5	5.1	38
40						7.1	7.1	3.4	4.2	4.5	4.6	40
42							6.4	2.9	3.7	4	4.1	42
44							5.8	2.4	3.2	3.6	3.6	44
46								2	2.7	3.1	3.2	46
48									2.1	2.7	2.9	48
50									1.6	2.3	2.5	50
52										1.8	2.2	52
54											1.8	54

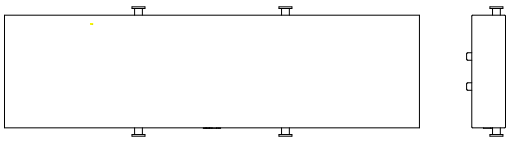
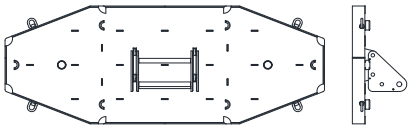
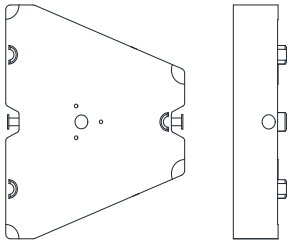
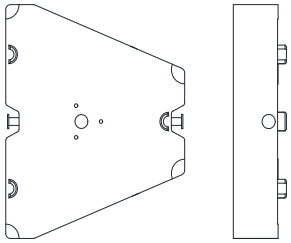
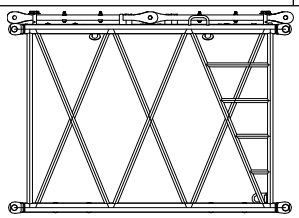
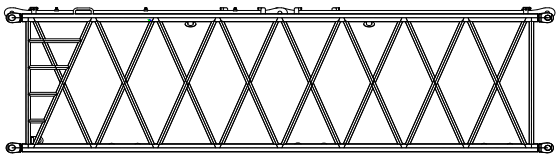
Boom length 49m, boom working angle 85°, without tower jib single pulley, counterweight 62+8t												
Radius (m)	Tower jib length/m											Radius (m)
	22	25	28	31	34	37	40	*43	*46	*49	*52	
14	29.7	27.8										14
15	28.3	26.7	25									15
16	27	25.6	24.1	22.6								16
17	25.6	24.4	23.1	21.8	20.4							17
18	24.2	23.2	22.1	21	19.7	18.5						18
19	22.8	22	21.1	20.1	19	17.9	16.8					19
20	21.5	20.9	20.1	19.2	18.3	17.3	16.3	14.1				20
22	19.1	18.7	18.1	17.5	16.8	16.1	15.2	12.2	13	12.3		22
24	16.9	16.6	16.3	15.8	15.3	14.8	14.1	10.6	11.3	11.7	9.2	24
26	14.9	14.8	14.5	14.3	13.9	13.5	13	9.2	9.9	10.3	8.7	26
28		13.1	13	12.8	12.6	12.3	11.9	8.1	8.7	9.1	8.3	28
30		11.7	11.6	11.5	11.4	11.2	10.9	7.1	7.7	8	7.9	30
32			10.4	10.3	10.3	10.1	9.9	6.2	6.9	7.2	7.3	32
34				9.3	9.2	9.2	9	5.4	6.1	6.4	6.5	34
36					8.3	8.3	8.2	4.7	5.5	5.7	5.8	36
38					7.5	7.5	7.5	4.1	4.9	5.1	5.2	38
40						6.8	6.8	3.5	4.3	4.5	4.6	40
42							6.2	3	3.8	4.1	4.1	42
44							5.6	2.5	3.3	3.6	3.7	44
46								2.1	2.7	3.2	3.3	46
48									2.2	2.8	2.9	48
50									1.7	2.4	2.6	50
52										1.9	2.2	52
54											1.8	54

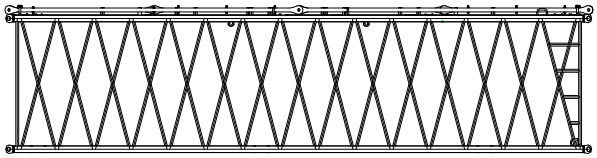
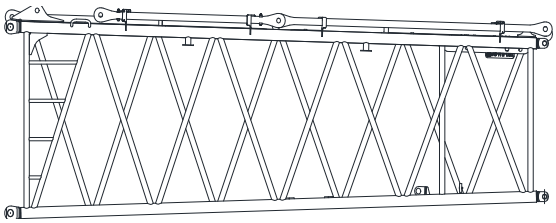
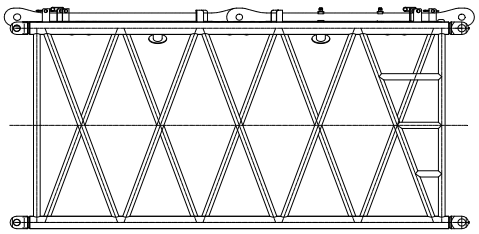
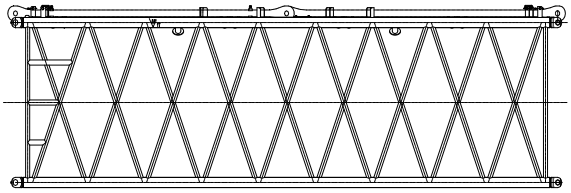
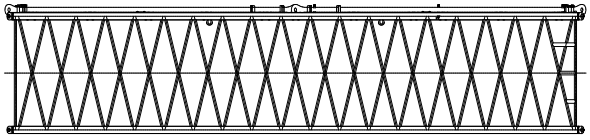
Boom length 52m, boom working angle 85°, without tower jib single pulley, counterweight 62+8t												
Radius (m)	Tower jib length/m											Radius (m)
	22	25	28	31	34	37						
14	27.7											14
15	26.5	25										15
16	25.3	24	22.6									16
17	24	22.9	21.7	20.5								17
18	22.7	21.8	20.8	19.7	18.6	17.4						18
19	21.5	20.7	19.8	18.9	17.9	16.9						19
20	20.3	19.7	18.9	18.1	17.2	16.3						20
22	18	17.6	17.1	16.5	15.8	15.1						22
24	16	15.7	15.4	14.9	14.4	13.9						24
26	14.2	14	13.8	13.5	13.1	12.7						26
28		12.5	12.3	12.2	11.9	11.6						28
30		11.1	11	10.9	10.8	10.6						30
32			9.9	9.8	9.7	9.6						32
34				8.8	8.8	8.7						34
36				8	7.9	7.9						36
38					7.1	7.1						38
40						6.5						40

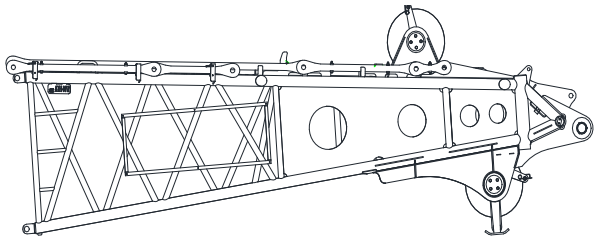
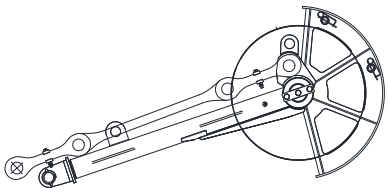
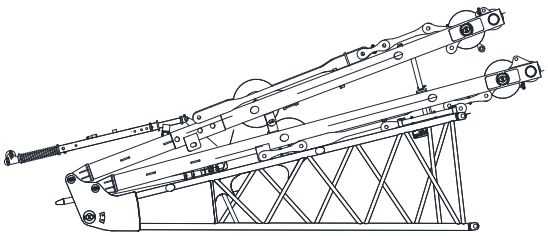
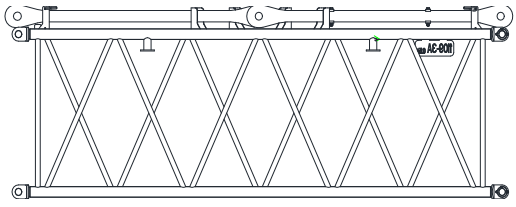
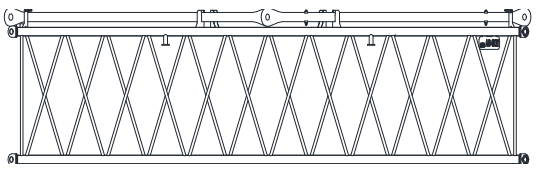
V. Transportation parameters of main components

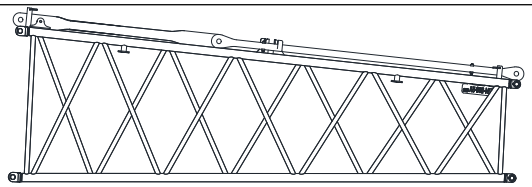
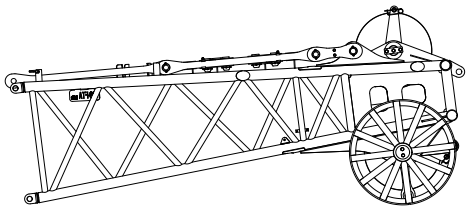
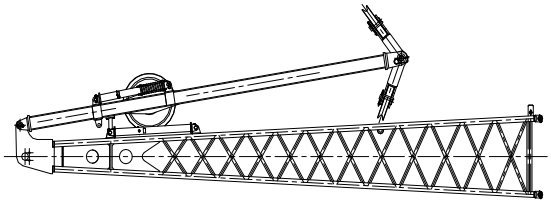
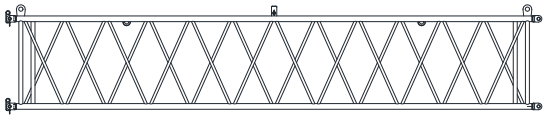
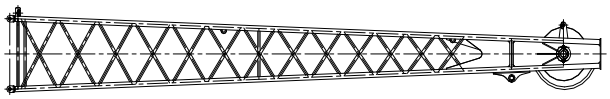
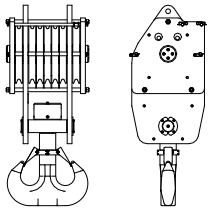
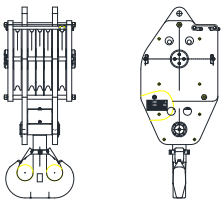
Transport weight and dimension of main parts of the crane

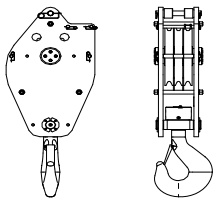
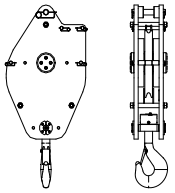
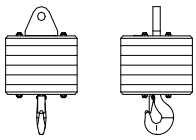
No.	Part name and figure			Length (m)	Width (m)	Height (m)	Weight (t)	Remarks
1	Basic machine transport plan A	Qty.	1	16.22	3.38	3.31	35.3	Including main/auxiliary hoisting winch, main luffing winch, tower jib luffing winch and wire rope, cab, A-frame and pulley block, boom butt, boom backstop etc., not including optional devices such as self-dis/assembly of turntable counterweight
2	Basic machine transport plan B	Qty.	1	10.27	3.38	3.31	31.3	Compared to basic crane transportation plan A, excluding the main boom bottom section, main boom backstop, tower jib mechanism, and steel wire rope, etc
3	Basic machine transport plan C	Qty.	1	8.13	3.38	3.24	29.0	Compared to basic crane transportation plan B, excluding A-frame and luffing pulley groups, etc
4	Left track frame	Qty.	1	8.19	0.95	1.32	14.2	
5	Right track frame	Qty.	1	8.19	0.95	1.32	14.2	
6	Car-body counterweight block	Qty.	2	4.63	1.04	0.36	4	

No.	Part name and figure			Length (m)	Width (m)	Height (m)	Weight (t)	Remarks
								
7	Turntable counterweight tray.	Qty.	1	6.40	2.44	0.50	12	Including connecting frame
								
8	Turntable counterweight (10t)	Qty.	4	2.02	2.44	1.15	10	
								
9	Turntable counterweight (5t)	Qty.	2	2.02	2.44	0.60	5	
								
10	3mA boom section	Qty.	1	3.2	2.2	2.0	0.72	Include boom and jib pendant
								
11	6mA boom section	Qty.	1	6.2	2.2	2.0	1.22	Include boom and jib pendant
								
12	12mA boom section	Qty.	2	12.2	2.2	2.0	2.20	Include boom

						and jib pendant
No.	**Part name and figure**	**Length (m)**	**Width (m)**	**Height (m)**	**Weight (t)**	**Remarks**
13	6m boom transition section Qty. 1 	6.2	2.2	2.0	1.24	Include boom and tower jib pendant
14	Boom insert 3mB Qty. 1 	3.2	1.8	1.6	0.49	Include boom and jib pendant
15	Boom insert 6mB Qty. 2 	6.2	1.8	1.6	0.84	Include boom and jib pendant
16	Boom insert 12mB Qty. 1 	12.2	1.8	1.6	1.54	Include boom and jib pendant
17	boom top section Qty. 1	6.3	2.3	2.2	2.74	Include boom

						and jib pendant
No.	**Part name and figure**	**Length (m)**	**Width (m)**	**Height (m)**	**Weight (t)**	**Remarks**
18	Main boom/tower jib single pulley Qty. 1 	1.8	1.16	0.8	0.17	
19	Tower jib 3-piece set Qty. 1 	7.0	2.0	2.9	3.0	Including tower jib butt, front strut, rear strut, pendant, backstop devices
20	Tower jib insert 3mC Qty. 2 	3.2	1.18	1.1	0.25	Including pendants
21	Tower jib insert 6mC Qty. 1 	6.2	1.18	1.1	0.41	Including pendants
22	Tower jib transition section Qty. 1	5.2	1.8	1.7	0.53	Including

							pendants
23	Tower jib top section 1 Qty. 1 		3.66	1.18	1.60	0.77	Including pendants
No.	**Part name and figure**		**Length (m)**	**Width (m)**	**Height (m)**	**Weight (t)**	**Remarks**
24	Light-duty fixed jib butt 2-piece set Qty. 1 		6.2	1.3	2.0	0.9	Including tower jib butt, jib strut, backstop device and etc. (optional)
25	Light-duty jJib length 6m Qty. 3 		6.1	1.1	0.9	0.25	(optional)
26	Light-duty jib top section Qty. 1 		7.5	1.1	0.9	0.47	(optional)
27	150t capacity hook block Qty. 1 		0.87	0.76	2.35	2.20	(optional)
28	100t capacity hook block Qty. 1 		0.76	0.70	1.90	1.69	(optional)
29	80t capacity hook block	Qty. 1	0.76	0.42	2.00	0.96	

							
30	32t capacity hook block	Qty.	1	0.76	0.35	1.63	0.73	(optional)
							
31	13.5t capacity hook block	Qty.	1	0.49	0.49	0.79	0.50	
							

Notes:

1. The parts not listed in above table include some clips, small size pin shafts, some bolts, small pendants or slings, total weight is not more than 3t (optional parts are not included in).
2. Due to some differences and technical improvements in the manufacturing process, the specifications and weight of the listed parts might be different.
3. Due to the easy confusion of pendants, please mark them before transportation to distinguish and avoid confusion.
4. Choose turntable counterweight according to the contract.