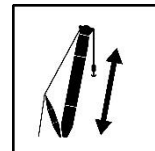


XLC450 CRAWLER CRANE

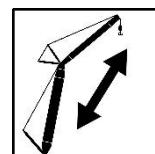
□ Technical specification



450t



108m



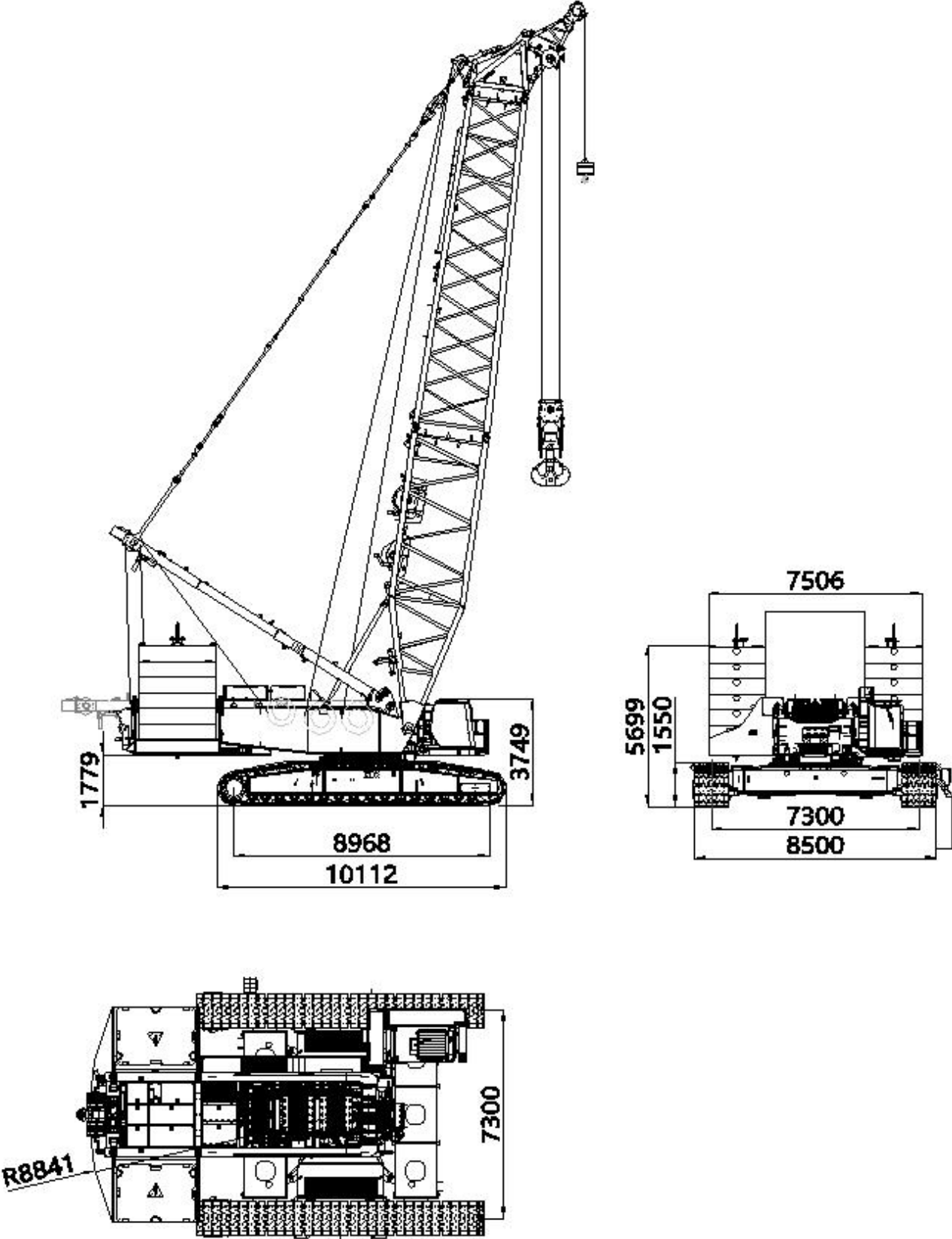
204m

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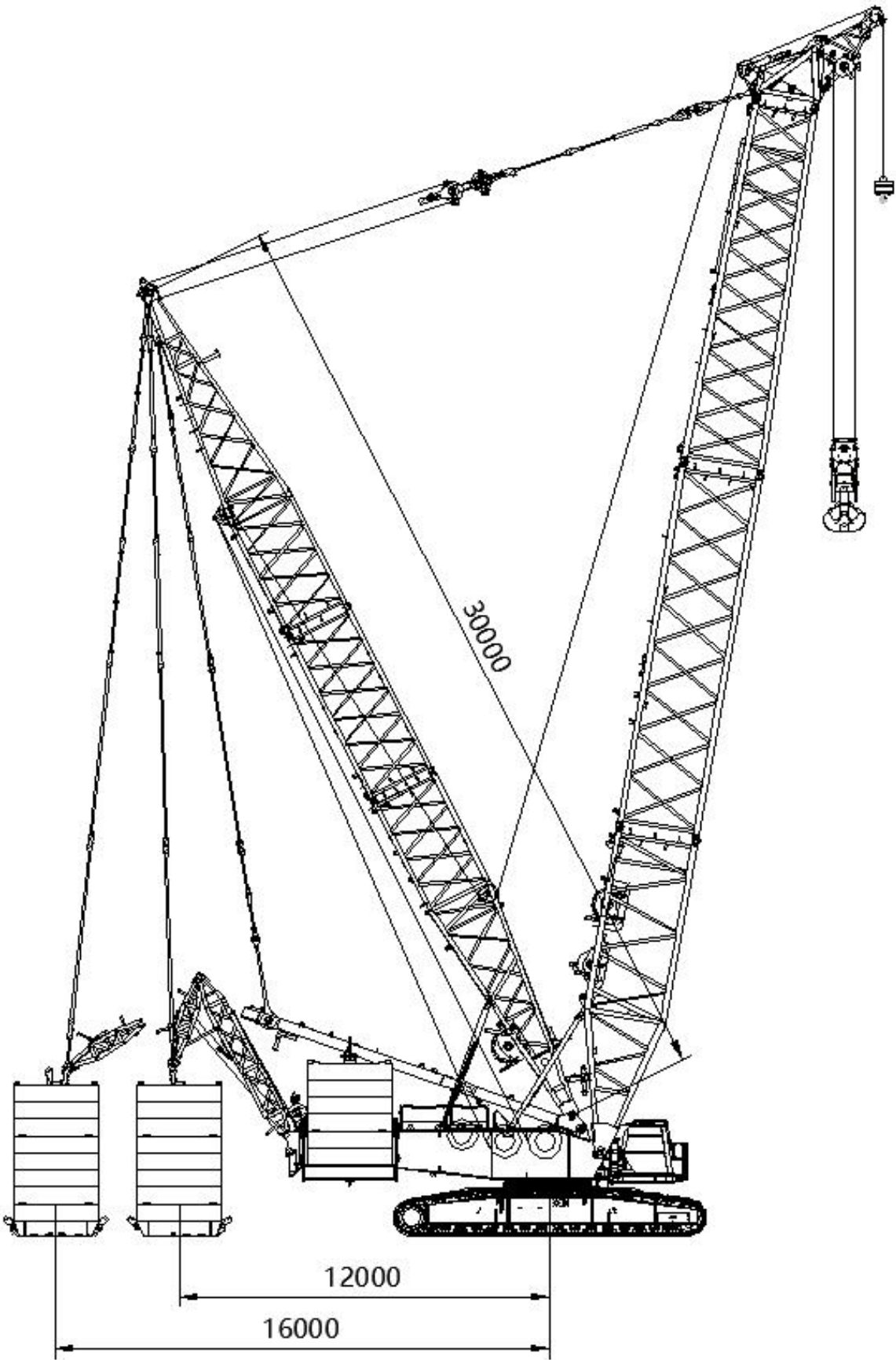
Dimension parameters (mm)

Without superlift device (standard operation mode)



Dimension parameters (mm)

With superlift device (superlift operation mode)



Technical specifications

➤ Cab

- The appearance of the cab is smooth, beautiful and novel. Fully enclosed steel frame structure is adopted, with a wide range of high-strength tempered glass installed on the front, side and top, which has good light transmission.
- A complete set of operating instruments and control devices arranged according to ergonomics, equipped with air duct type heating and cooling air conditioner, audio equipment, fire extinguisher, closed-circuit monitoring system, etc., with spacious and comfortable interior space.
- During operation, the cab can adjust its tilting angle to expand the field of view and facilitate operation; during transport, the cab can be rotated from the side to the front to reduce transport width.

➤ Engine

- Brand/model: Weichai WP14TG765E304
- Emission standard: China III/IV
- Rated power: 562kW
- Rated speed: 1,900rpm
- Maximum output torque: 2900N·m
- Speed at maximum output torque: 1200-1500rpm

➤ Traveling device

- The crawler tracks are designed with a box-shaped structure, featuring local reinforcements at the connection to car-body and a transverse partition positioned centrally.
- The rollers and track shoes are made of high-strength alloy cast steel. The two crawler tracks are symmetrically arranged and equipped with track shoes with a width of 1.2m, which can be operated simultaneously or separately to realize straight traveling and turning.
- Driven by double-drive traveling reducer, built-in planetary gear reducer and variable displacement motor.

➤ Car-body

- It is designed with a box-type structure. Cross panel is set in the middle to strengthen its torsion stiffness, simple structure, high load bearing capacity and good rigidity.

➤ Turntable

- Large box frame equal strength structure, Γ -shaped main vertical plates are connected at left and right sides by box beams. This structure has strong bending and torsional resistance and good stability. The space inside turntable is very large, convenient for maintenance.
- Turntable is connected to undercarriage through a slewing bearing. Key components such as cab, main luffing system, main and auxiliary hoisting systems, engine, mast, turntable counterweight and boom system are mounted on turntable.

➤ Mast

- Double-limb box structure, with good stability.
- It is equipped with an auxiliary lifting cylinder for self-disassembly and assembly of crawler frame, central counterweight and main boom.

Technical specifications

➤ Slewing system

- Slewing system is arranged on front part of turntable and equipped with two planetary reducers. It is externally engaged with slewing bearing, with hydraulic buffering and free sliding function. Normally closed disc brake is adopted, ensuring reliable operation and easy maintenance.

➤ Slewing bearing

- Adopt three-row roller-type externally-meshed slewing bearing, which has high strength, large bearing torque and easy maintenance.

➤ Hoisting system

- Adopt normally closed disc brake and built-in reducer.
- Variable displacement hydraulic motor drives the planetary gear reducer to control main and auxiliary hoisting systems, with good fine motion performance.
- No disorder occurs when the rope is reeved in multiple layers and at maximum parts of line, the reducer has features of low noise, high efficiency, long service life and convenient oil change.

Main and auxiliary hoisting systems	Drum diameter	660mm
	Rope speed at outermost working layer	140m/min
	Diameter of wire rope	28mm
	Length of winch wire rope	800m
	Rated single line pull	17.2t

➤ Luffing system

- Main boom luffing system adopts dual drum form, with ratchet locking device, built-in reducer and normally closed disc brake.
- Tower jib luffing system adopts ratchet locking device, built-in reducer and normally closed disc brake.
- Superlift luffing system adopts ratchet locking device, built-in reducer and normally closed disc brake.

Main luffing system	Drum diameter	626mm
	Rope speed at outermost working layer	2×51m/min
	Diameter of wire rope	26mm
	Length of winch wire rope	550m
	Rated single line pull	13t

Tower jib luffing system	Drum diameter	660mm
	Rope speed at outermost working layer	105m/min
	Diameter of wire rope	26mm
	Length of winch wire rope	520m
	Rated single line pull	18.4t

Superlift luffing system	Drum diameter	660mm
	Rope speed at outermost working layer	120m/min
	Diameter of wire rope	26mm
	Length of winch wire rope	790m
	Rated single line pull	18.4t

Technical specifications

➤ Hook block

- There are 5 types of hooks available, which can be flexibly selected by customers according to their needs. The specific parameters are as follows:

Description	Dead weight	Number of pulleys
400t hook	6.8t	2×14
320t hook	6t	2×11
200t hook	4.2t	7
50t hook	2.5t	1
16t hook	0.9t	—

➤ Main boom

- Main boom uses high-strength seamless pipe as chords and lacing tubes, supplemented by four-chord lattice structure which is welded by high strength steel plate, with equal section in the middle and variable section at two ends.
- Main boom length in standard heavy-duty main boom operation mode: 24m~84m. See “Operation mode and lifting performance” in this document for main boom combinations in this operation mode. A single pulley can be installed at main boom end.
- Main boom length in standard light-duty main boom operation mode: 48m~108m. See “Operation mode and lifting performance” in this document for main boom combinations in this operation mode. A single pulley can be installed at main boom end.
- Main boom length in standard TBM jib operation mode: 24m. See “Operation mode and lifting performance” in this document for main boom combinations in this operation mode.
- Main boom length in standard enhanced main boom operation mode: 24m~84m. See “Operation mode and lifting performance” in this document for main boom combinations in this operation mode. A single pulley can be installed at main boom end.
- Main boom length in standard enhanced light-duty main boom operation mode: 48m~108m. See “Operation mode and lifting performance” in this document for main boom combinations in this operation mode. A single pulley can be installed at main boom end.
- Main boom length in superlift heavy-duty main boom operation mode: 36m~96m. See “Operation mode and lifting performance” in this document for main boom combinations in this operation mode. A single pulley can be installed at main boom end.
- Main boom length in superlift light-duty main boom operation mode: 72m~126m. See “Operation mode and lifting performance” in this document for main boom combinations in this operation mode. A single pulley can be installed at main boom end.
- Main boom length in superlift TBM jib operation mode: 36m. See “Operation mode and lifting performance” in this document for main boom combinations in this operation mode.

➤ Tower jib and TBM jib

- Tower jib length in standard tower jib operation mode: 24m ~ 72m. See “Operation mode and lifting performance” in this document for main boom combinations in this operation mode. A single pulley can be installed at jib end.
- Jib length in standard TBM jib operation mode: 9m. See “Operation mode and lifting performance” in this document for main boom combinations in this operation mode.
- Tower jib length in standard enhanced tower jib operation mode: 24m ~ 78m. See “Operation mode and lifting performance” in this document for main boom combinations in this operation mode. A single pulley can be installed at jib end.
- Jib length in standard enhanced TBM jib operation mode: 9m. See “Operation mode and lifting performance” in this document for main boom combinations in this operation mode.
- Tower jib length in superlift tower jib operation mode: 36m~84m. See “Operation mode and lifting performance” in this document for main boom combinations in this operation mode. A single pulley can be installed at jib end.
- Jib length in superlift TBM jib operation mode: 9m. See “Operation mode and lifting performance” in this document for main boom combinations in this operation mode.

➤ Pendant

- High-strength pendant structure is adopted, which consists of two groups of pendants. The pendant is cut and formed by high-strength steel at one time, with a high safety factor. The pendant is equipped with a balance beam, which can effectively balance the load of two groups of pendants and make them evenly stressed.

Technical specifications

➤ Counterweight

- Counterweight includes car-body counterweight, turntable counterweight, additional counterweight and superlift counterweight.
- Car-body counterweight is 40t and consists of two 20t counterweight slabs.
- Turntable counterweight has three combinations: 110t, 130t and 150t, consisting of 15t counterweight tray and 10t counterweight slabs. The specific parameters are shown in the following table.
- Additional counterweight has four combinations: 10t, 40t, 70t and 90t, consisting of 10t counterweight tray and 10t counterweight slabs. The specific parameters are shown in the following table.

No.	Weight of turntable counterweight (t)	Combination type of counterweight
1	110	2×15+8×10
2	130	2×15+10×10
3	150	2×15+12×10

No.	Weight of additional counterweight (t)	Combination type of counterweight
1	10	10+0
2	40	10+3×10
3	70	10+6×10
4	90	10+8×10

➤ Oil cylinder assembly

- The connection between boom and turntable and the connection between car-body and crawler track are both realized by using hydraulic power pins. This crane is equipped with mast raising cylinder, mast derrick cylinder, car-body outrigger cylinder, track tension cylinder and etc., the operator's cab is also set with cab tilting cylinder and cab rotation cylinder.

➤ Hydraulic system

- Adopt electric proportional pump-controlled closed hydraulic system with volumetric speed control, offering high transmission stability, precise speed control, the system is energy-saving and stable.
- Hoisting, luffing and traveling are driven by closed pumps, which meet the switching and compound requirements of different actions through main switching valve. Other auxiliary movements such as backstop, outrigger, pin shaft insertion and extraction adopt constant pressure variable pump. Oil radiator, air conditioner and servo oil refilling use gear pumps as power source.
- Main hoisting, auxiliary hoisting, tower jib luffing and superlift luffing are driven by EP variable displacement motor. Variable displacement motor+variable pump control system not only realizes a large speed regulation range, but also has the advantages of accurate regulation and good fine motion performance.

➤ Electrical system

- Electrical system mainly consists of engine control, instrument monitoring, auxiliary equipment, hydraulic system control, load moment indicator and safety monitoring, etc.
- Composition of electrical system: conventional electrical system, PLC control system and electric drive control system. Conventional electrical system adopts 24V parallel circuit, and the wiring of electric equipment adopts single-wire system with negative ground. Including power supply, start control, engine control and status monitoring, cab air conditioner and audio, illuminating (lighting), wiper, interphone, etc.
- PLC control system includes the control of actions such as hoisting, luffing, slewing, traveling and cab rotation and tilting. All operations are controlled by electro-hydraulic proportional control technology and PLC logic, which effectively ensures all functions of crane.

Battery No.	Rated voltage	Rated capacity
6-QAW-180D	24V	180Ah

Safety devices

➤ Load moment indicator

- System composition: It consists of large screen color LCD display, host computer, angle sensor, tension sensor, and pressure sensor.
- Detection function: LMI can automatically detect parameters such as boom angle and lifting weight.
- Display function: 12.1-inch high-definition liquid crystal display, show important parameters in lifting operation through text and graphics, such as load moment percentage, actual lifting weight, rated lifting weight, radius, boom length, boom angle, maximum lifting height, operation mode code, parts of line, limit angle and information code.
- Warning function: with complete pre-alarm and overload stop function. If it is detected that the actual weight exceeds the rated lifting capacity or boom angle exceeds the maximum value, LMI will send alarm and limit the current movement of the crane.
- The system has self-diagnosis function.

➤ Over-wound prevention device for main and auxiliary hooks

- It is used to prevent the over-lifting of hook. When hook rises to a certain height, the limit switch is activated, the control system automatically cuts off the hoisting action of hook, and at the same time, the display and buzzer alarm, in this case, the hook can only be lowered to prevent the hook from being over-lifted.

➤ Over-released prevention device for main and auxiliary hooks

- It is used to prevent the over-releasing of winch rope. When there are only 3-loops of rope on the drum, the limit switch is activated, the control system automatically cuts off the releasing action of rope, and at the same time, the display and buzzer alarm, in this case, the hook can only be lowered to prevent the rope from being over-released.

➤ Angle limit device for boom

- In working mode, when boom luffs to the max. working angle, boom raising will be stopped under the control of LMI and stroke switch; meanwhile, the display and buzzer will alarm. At the moment, boom raising can not be operated, boom lowering can be operated.
- In working mode, when boom luffs to the min. working angle, boom lowering will be stopped under the control of LMI, meanwhile, the display and buzzer will alarm. At the moment, boom lowering can not be operated.

➤ Boom backstop device

- Main boom and superlift mast each have a pair of backstop oil cylinders. When boom tilts backwards, it needs to overcome the high pressure of backstop oil cylinders; when boom tilts forwards, the hydraulic system automatically replenishes high-pressure oil, tensioning the boom and preventing boom from vibrating and tilting back during operation.

➤ Mis-operation prevention function

- The handle has 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 mis-operation.

➤ Mode switching

- The installation mode and operation mode can be switched. In the installation mode, the over-wound prevention device, boom angle limiter and load moment indicator do not work to facilitate crane installation. In operation mode, all safety devices work normally.

Optional parts

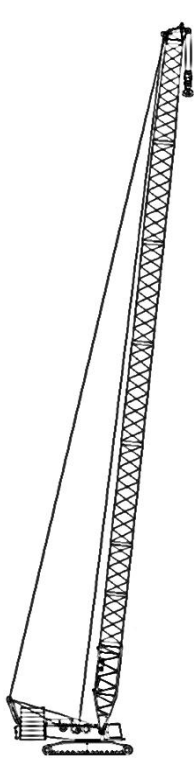
➤ **Optional parts**

Hook	400t hook
Optional parts in standard operation mode	Reeving winch, lightning protection and high voltage early warning, mast derrick function, single pulley hoisting system, safety rope
Optional parts in standard enhanced operation mode	8×10t counterweight, standard enhanced tower jib, superlift counterweight tray and additional counterweight bracket
Optional parts in superlift operation mode	Superlift heavy-duty main boom 96m (12m heavy-duty insert section), superlift counterweight pushing device, and superlift counterweight 2×10t

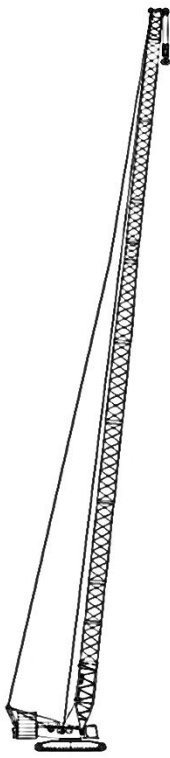
Main technical parameters

Item		Unit	Parameters
Max. rated lifting capacity in standard operation mode	Heavy-duty main boom	t	450
	Light-duty main boom	t	200
	Tower jib	t	162
	TBM jib (with main hook)	t	400
	TBM jib (with auxiliary hook)	t	200
Max. rated lifting capacity in standard enhanced operation mode	Heavy-duty main boom	t	450
	Light-duty main boom	t	200
	Tower jib	t	162
	TBM jib (with main hook)	t	400
	TBM jib (with auxiliary hook)	t	200
Max. rated lifting capacity in superlift operation mode	Heavy-duty main boom	t	450
	Light-duty main boom	t	200
	Tower jib	t	162
	TBM jib (with main hook)	t	400
	TBM jib (with auxiliary hook)	t	200
Max. lifting moment		t.m	5600
Max. slewing speed		rpm	1.2
Max. travel speed		km/h	1
Engine	Model	—	Weichai WP14
	Rated power	kW	562
	Rated speed	rpm	1900
	Max. output torque	N.m	2900
	Speed at max. output torque	rpm	1200-1500
	Emission standard	—	China III/IV
Overall weight of the crane (24m heavy-duty main boom, 350t hook)		t	343
Average ground pressure		MPa	0.16
Gradeability (with basic boom)		—	20%
Max. mass of single piece in transport		t	45
Max. dimension of single piece in transport		m	12.3×3×3.3

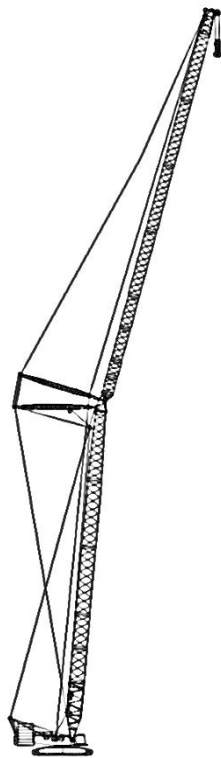
Operation mode and lifting performance



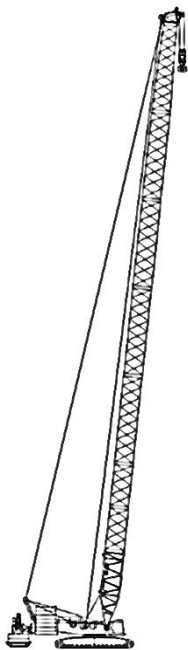
Standard heavy-duty main boom HB
Main boom: 24m~84m



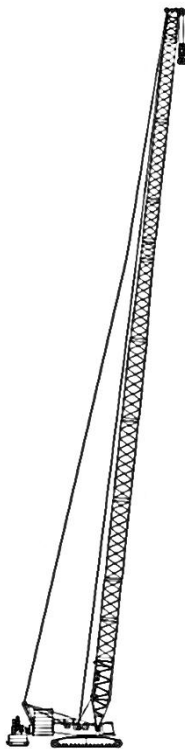
Standard light-duty main boom LB
Main boom: 48m~108m



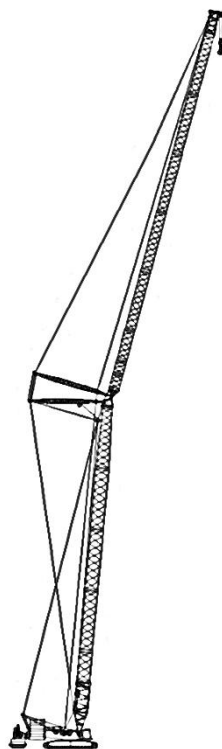
Standard tower jib HW
Main boom: 30m~60m Tower jib: 24m~72m



Standard enhanced heavy-duty main boom (EHB)
Main boom: 24m~84m

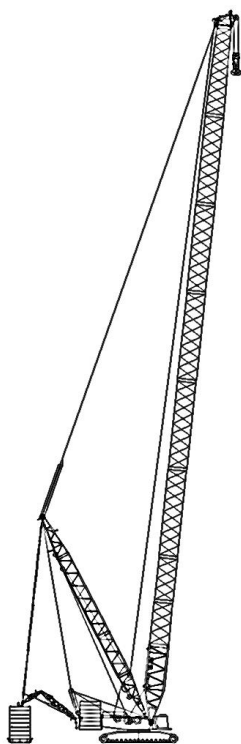


Standard enhanced light-duty main boom (ELB)
Main boom: 48m~108m



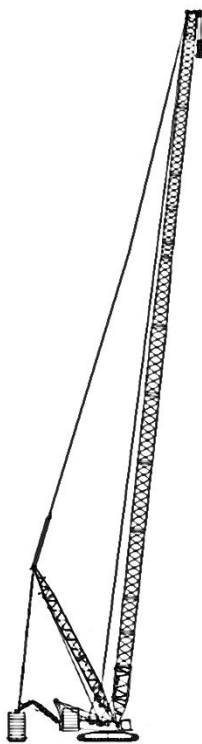
Standard enhanced tower jib (EHW)
Main boom: 30m~66m Tower jib: 24m~78m

Operation mode and lifting performance



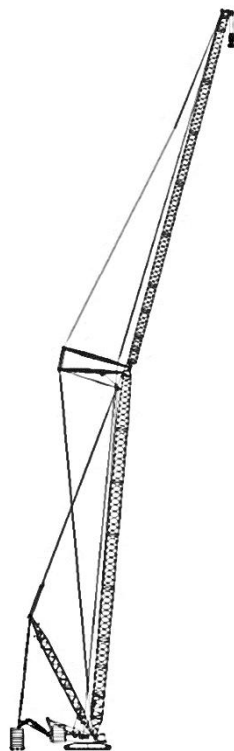
Superlift heavy-duty main boom (SHB)

Main boom: 36m~96m



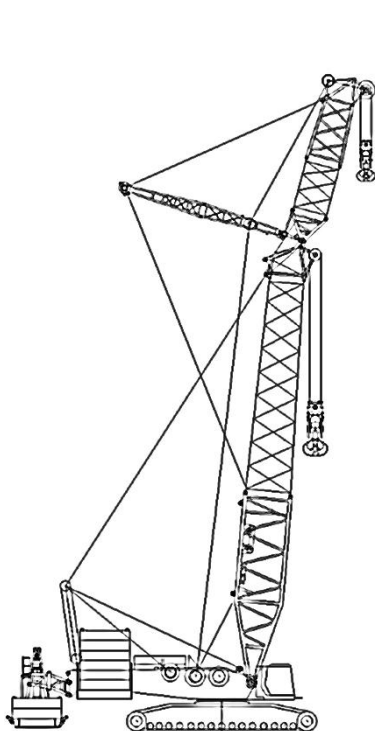
Superlift light-duty main boom (SLB)

Main boom: 72m~126m



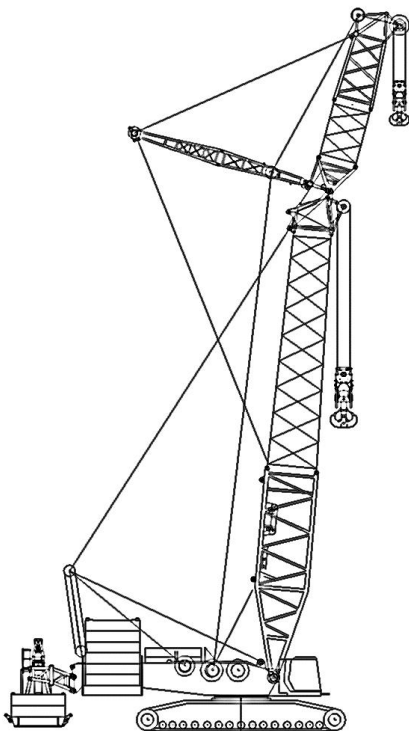
Superlift tower jib (SHW)

Main boom: 36m~84m
Tower jib: 24m~84m



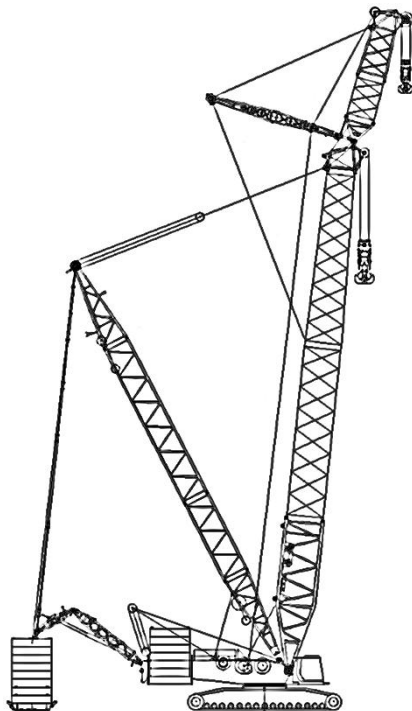
Standard TBM jib (HFS)

Main boom: 24m
Fixed jib: 9m



Standard enhanced TBM jib (EHFS)

Main boom: 24m
Fixed jib: 9m

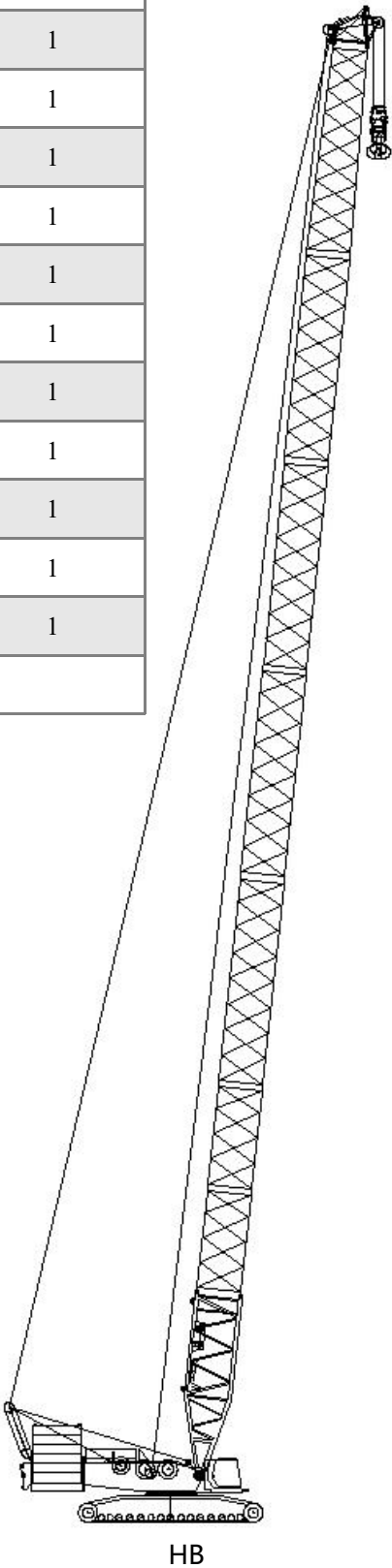


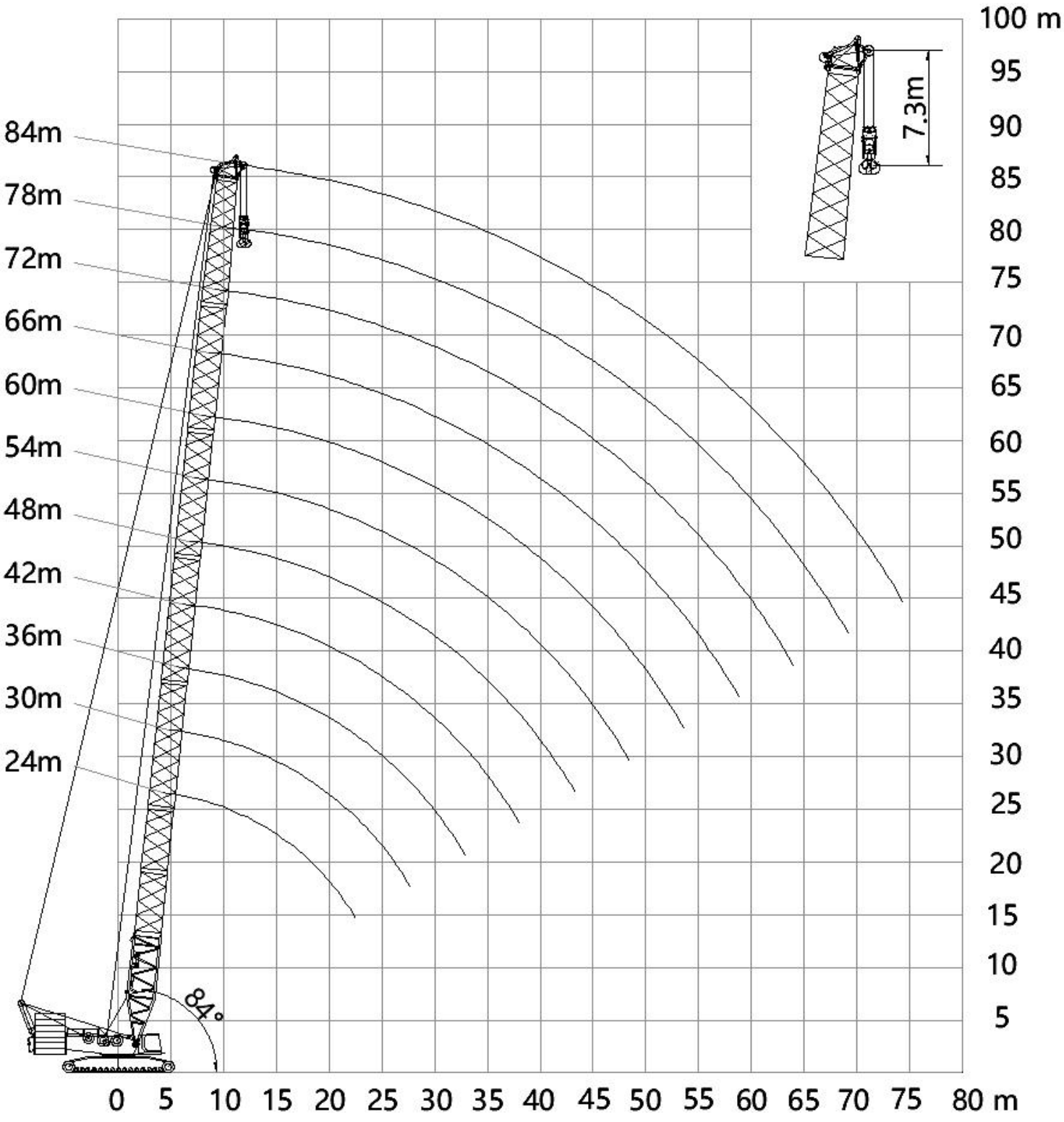
Superlift TBM jib (SHFS)

Main boom: 36m
Fixed jib: 9m

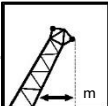
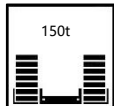
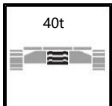
Operation mode and lifting performance-HB

Main boom combination					
Main boom length	Length of insert section				
	6m insert section	12m thick-wall insert section	12m thick-wall insert section	12m thin-wall insert section	12m transition section
24m					1
30m	1				1
36m		1			1
42m	1	1			1
48m		1	1		1
54m	1	1	1		1
60m	2	1	1		1
66m	1	1	1	1	1
72m	2	1	1	1	1
78m	1	1	1	2	1
84m	2	1	1	2	1
Note: Main boom butt 10.5m and main boom head 1.5m are required.					





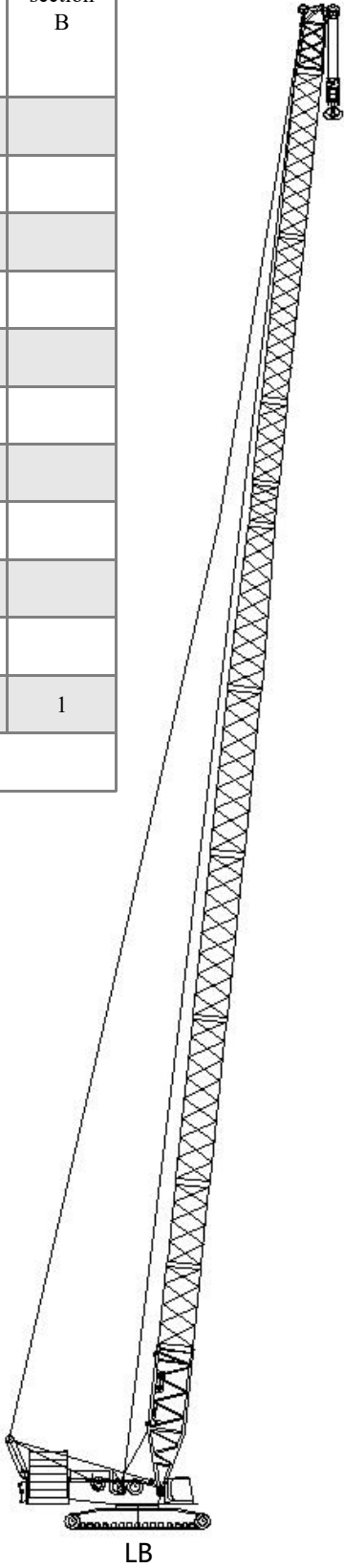
Operation mode and lifting performance-HB

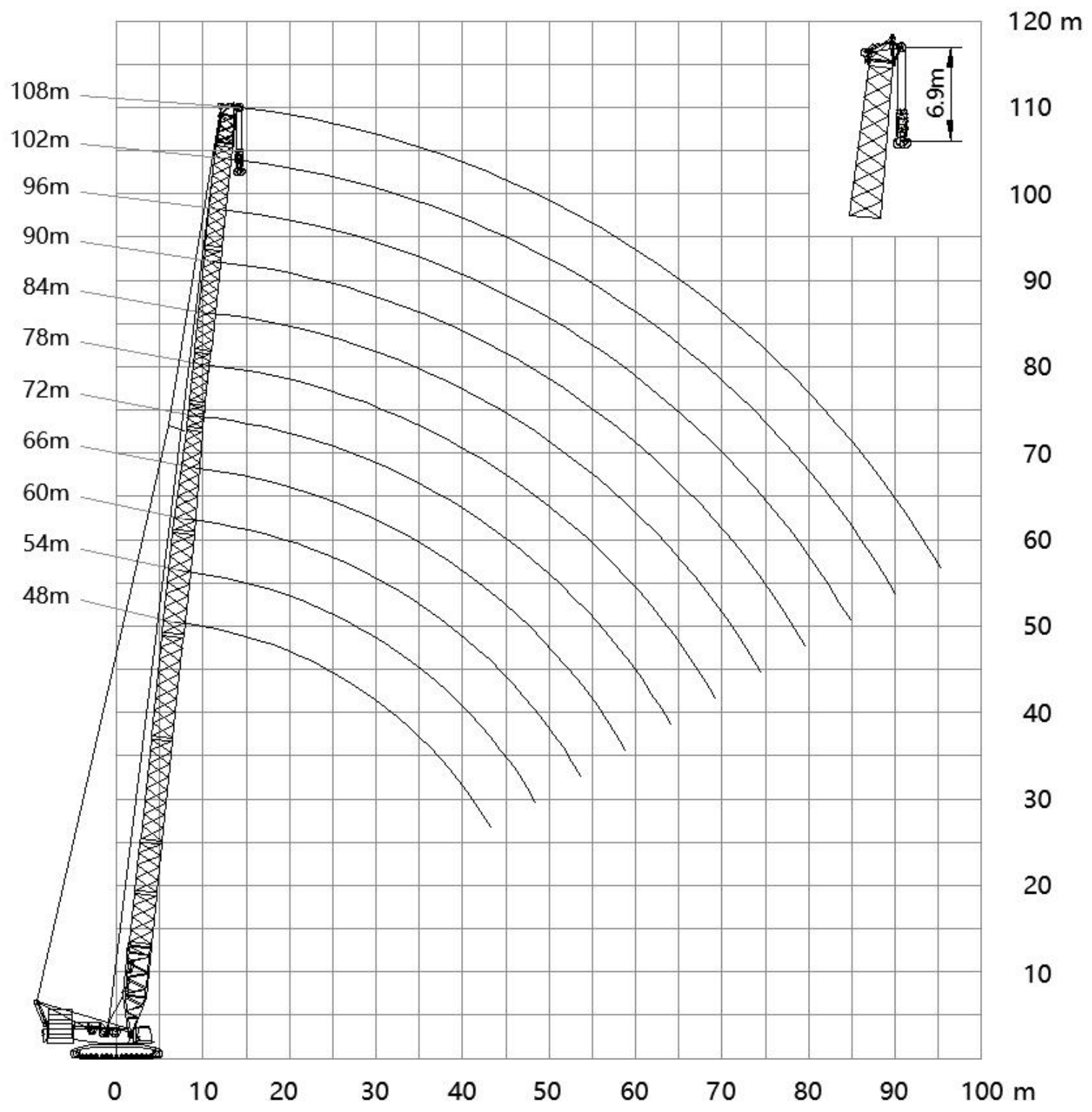
				Main boom length 24~84m								
	24	30	36	42	48	54	60	66	72	78	84	
6	450*											
7	395*	395*	384*	357*								
8	344*	343*	326*	306*	288	272						
9	304*	300*	283*	267	253	240	228	217				
10	269*	262*	249*	237	225	214	204	195	187	179		
11	234*	228*	222	212	203	194	185	177	170	163	156	
12	206*	202	197	192	184	176	169	162	156	150	144	
13	183*	181	177	173	168	161	155	149	143	138	133	
14	164	163	160	157	153	149	143	138	132	128	123	
15	148	148	146	143	140	138	132	128	123	119	114	
16	135	135	134	131	129	127	123	119	115	111	107	
17	123	123	123	121	119	117	115	111	107	104	100	
18	114	114	113	113	110	109	107	104	101	97.9	94.3	
19	105	105	105	104	103	102	100	98.4	95.1	92.1	88.8	
20	98.2	98.2	98	97.5	96.6	95.4	93.6	92.1	89.7	86.8	83.7	
22	85.8	85.9	85.7	85.1	84.6	83.8	82.5	81.2	79.5	77.7	74.9	
24		75.9	75.7	75.2	74.6	73.9	73.1	72.3	70.7	69.5	67.4	
26		67.7	67.6	67	66.4	65.7	64.8	64.4	63.4	62.2	60.8	
28		60.8	60.7	60.2	59.6	58.8	58	57.5	56.7	56.1	54.7	
30			54.9	54.4	53.8	53	52.2	51.7	50.8	50.3	49.4	
32			49.9	49.4	48.8	48	47.2	46.7	45.8	45.2	44.3	
34				45.1	44.5	43.7	42.8	42.4	41.4	40.9	39.9	
36				41.2	40.7	39.9	39	38.6	37.6	37	36.1	
38				37.8	37.3	36.5	35.7	35.2	34.3	33.7	32.7	
40					34.3	33.5	32.7	32.2	31.3	30.7	29.7	
44						28.4	27.6	27.1	26.1	25.5	24.6	
48						24.2	23.3	22.9	21.9	21.3	20.4	
52							19.8	19.4	18.4	17.8	16.8	
56								16.4	15.4	14.8	13.8	
60									12.8	12.3	11.3	
64									10.6	10	9	
68										8	7.1	
72											5.3	

Note: The mark "*" next to the lifting capacity in the table indicates a risk of backward tipping when the hook is empty in these operation modes. Refer to the instructions for the minimum load.

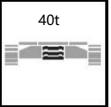
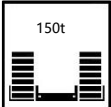
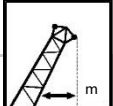
Operation mode and lifting performance-LB

Light duty main boom combination									
Length	Length of insert section								
	6m insert section	12m thick-wall insert section I	12m thick-wall insert section	12m thin-wall insert section	12m transition section	3m insert section A	6m insert section	12m insert section A	12m insert section B
48m	1	1			1	1			
54m		1	1		1	1			
60m	1	1	1		1	1			
66m		1	1	1	1	1			
72m	1	1	1	1	1	1			
78m	2	1	1	1	1	1			
84m	2	1	1	1	1	1	1		
90m	2	1	1	1	1	1	2		
96m	2	1	1	1	1	1	1	1	
102m	2	1	1	1	1	1	2	1	
108m	2	1	1	1	1	1	1	1	1
Note: Main boom butt 10.5m and tower jib top 4.5m are required.									





Operation mode and lifting performance-LB

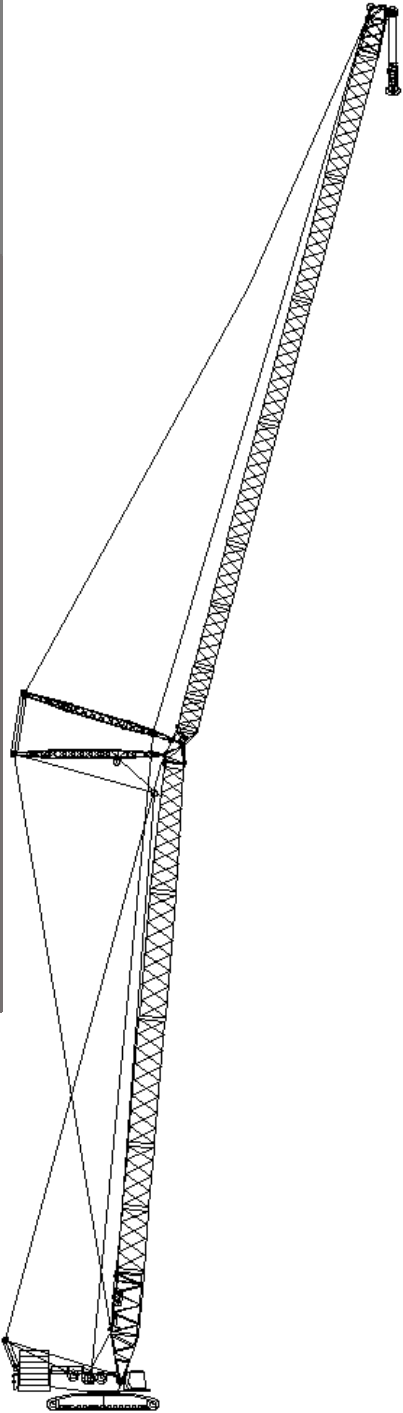


Light duty main boom length: 48~108m

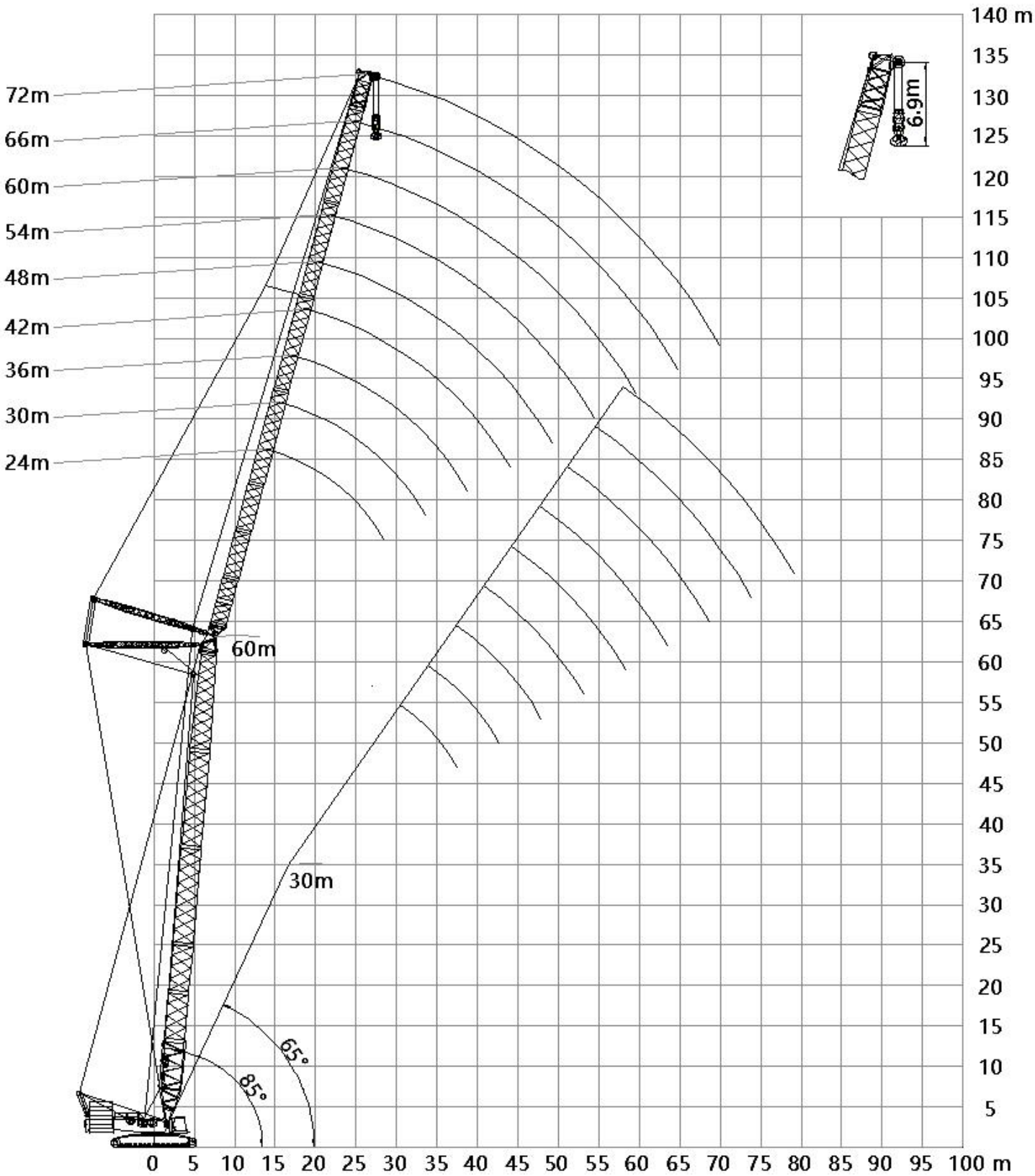
	48	54	60	66	72	78	84	90	96	102	108
8	200*	193*									
10	200*	193*	165	151	137	123					
12	187	182*	165	151	137	123	123	108	108	93.9	
14	155	154	146	141	136	123	123	108	108	93.9	90
16	131	132	126	122	118	114	110	107	104	93.9	87.1
18	113	114	109	107	104	100	98	95.4	92.8	90.2	84.4
20	99.1	100	96.1	94.5	92.6	89.7	87.4	85.2	83	80.7	78.8
22	87.4	88.8	85.2	83.7	82	80.3	78.6	76.6	74.7	72.7	71.1
24	77.5	78.8	76	74.9	73.3	71.7	70.8	69.4	67.7	65.9	64.4
26	69.3	70.5	67.8	67.3	66	64.5	63.7	62.8	61.7	60	58.7
28	62.5	63.7	61	60.4	59.6	58.4	57.6	56.8	56	54.9	53.7
30	56.7	57.8	55.2	54.6	53.8	52.8	52.4	51.7	51	50.1	49.3
32	51.8	52.8	50.2	49.7	48.8	47.8	47.7	47.2	46.5	45.7	45.1
34	47.5	48.5	45.9	45.3	44.4	43.5	43.3	43.1	42.6	41.9	41.3
36	43.7	44.7	42.1	41.5	40.6	39.7	39.5	39.3	39	38.5	37.9
38	40.3	41.3	38.8	38.2	37.3	36.3	36.1	35.9	35.7	35.3	34.9
40	37.3	38.3	35.8	35.2	34.3	33.3	33.1	32.9	32.7	32.3	32.1
44		33.1	30.7	30.1	29.2	28.2	28	27.8	27.5	27.2	27
48		28.8	26.5	25.9	25	24	23.8	23.6	23.3	23	22.8
52			23	22.4	21.5	20.5	20.3	20	19.8	19.5	19.3
56				19.5	18.5	17.6	17.3	17.1	16.9	16.5	16.3
60					16	15	14.8	14.5	14.3	13.9	13.8
64					13.7	12.8	12.6	12.3	12.1	11.7	11.5
68						10.8	10.6	10.3	10.1	9.8	9.6
72							8.9	8.6	8.4	8	7.9
76								7.1	6.9	6.5	6.3
80								5.6	5.5	5.1	5
84									4.2	3.9	3.7

Note: The area mark "*" next to the lifting capacity in the table indicates a risk of backward tipping when the hook is empty in these operation modes. Refer to the instructions for the minimum load.

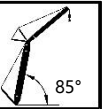
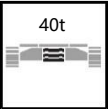
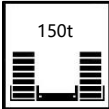
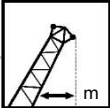
Main boom combination						
Main boom length	Length of insert section					
	6m insert section	12m thick-wall insert section	12m thick-wall insert section	12m thin-wall insert section	12m transition section	
30m	1				1	
36m		1			1	
42m	1	1			1	
48m		1	1		1	
54m	1	1	1		1	
60m	2	1	1		1	
Note: Main boom butt 10.5m and main boom head 1.5m are required.						
Tower jib combination						
Jib length	Length of insert section					
	3m insert section A	3m insert section B	6m insert section	12m insert section A	12m insert section B	12m insert section C
24m	1	1		1		
30m	1	1	1	1		
36m	1	1	2	1		
42m	1	1	1	2		
48m	1	1	2	2		
54m	1	1	1	2	1	
60m	1	1	2	2	1	
66m	1	1	1	2	1	1
72m	1	1	2	2	1	1
Note: Tower jib butt 1.5m and tower jib top 4.5m are required.						



HW



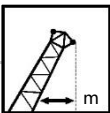
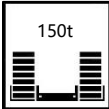
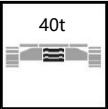
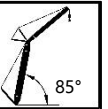
Operation mode and lifting performance-HW



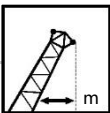
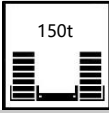
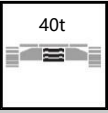
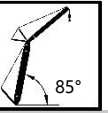
Main boom: 30m, tower jib: 24~72m

	24	30	36	42	48	54	60	66	72
14	162	156							
16	141	137	132						
18	123	121	117	114					
20	109	107	105	103	100				
22	97.6	96.2	94.5	93	91	88.5	82.9		
24	87.2	87	85.5	84.2	82.7	81.2	78.9	71.4	
26	78.5	78.6	77.9	76.7	75.4	74.2	72.7	70.6	60.7
28		71.5	71	70.4	69.2	68.1	66.9	65.3	60.4
30		65.4	65	64.6	63.8	62.8	61.7	60.4	59
32			59.8	59.5	58.9	58.2	57.1	56	54.9
34			55.3	55	54.4	54	53.1	52	51
36			51.3	51	50.5	50	49.4	48.5	47.5
38				47.5	47	46.6	46	45.3	44.4
40				44.4	43.9	43.5	42.9	42.2	41.6
42					41.1	40.7	40.1	39.4	38.8
44					38.6	38.2	37.6	37	36.3
46					36.3	35.9	35.4	34.7	34.1
48						33.9	33.3	32.6	32
50						32	31.4	30.8	30.1
52						30.2	29.7	29	28.4
54							28.1	27.4	26.8
56							26.6	26	25.4
58								24.6	24
60								23.3	22.7
62								22.1	21.5
64									20.4
66									19.4

Operation mode and lifting performance-HW

					Main boom length: 48m, tower jib: 24~72m				
	24	30	36	42	48	54	60	66	72
14	143								
16	126	122							
18	113	109	106						
20	102	99.2	96.1	93.4					
22	93	90.4	87.7	85.3	82.7	80.5			
24	84.6	83.1	80.5	78.3	76	74	71.4		
26	77.2	76.1	74.4	72.4	70.2	68.4	66.4	62	
28		70	68.7	67.2	65.2	63.5	61.6	59.7	53.4
30		64.7	63.5	62.5	60.8	59.2	57.4	55.6	53.2
32		59.5	59	58	56.9	55.4	53.7	51.9	50.3
34			54.6	54.1	53	51.9	50.3	48.7	47.1
36			50.7	50.3	49.6	48.7	47.3	45.7	44.3
38			47.2	46.9	46.3	45.6	44.6	43.1	41.6
40				43.8	43.2	42.8	41.9	40.7	39.3
42				41	40.5	40.1	39.4	38.5	37.1
44					38	37.6	37	36.3	35.1
46					35.7	35.3	34.7	34	33.3
48					33.7	33.3	32.7	32	31.4
50						31.4	30.9	30.2	29.5
52						29.7	29.1	28.5	27.8
54							27.6	26.9	26.3
56							26.1	25.4	24.8
58							24.7	24.1	23.5
60								22.8	22.2
62								21.7	21.1
64								20.6	20
66									18.9
68									18

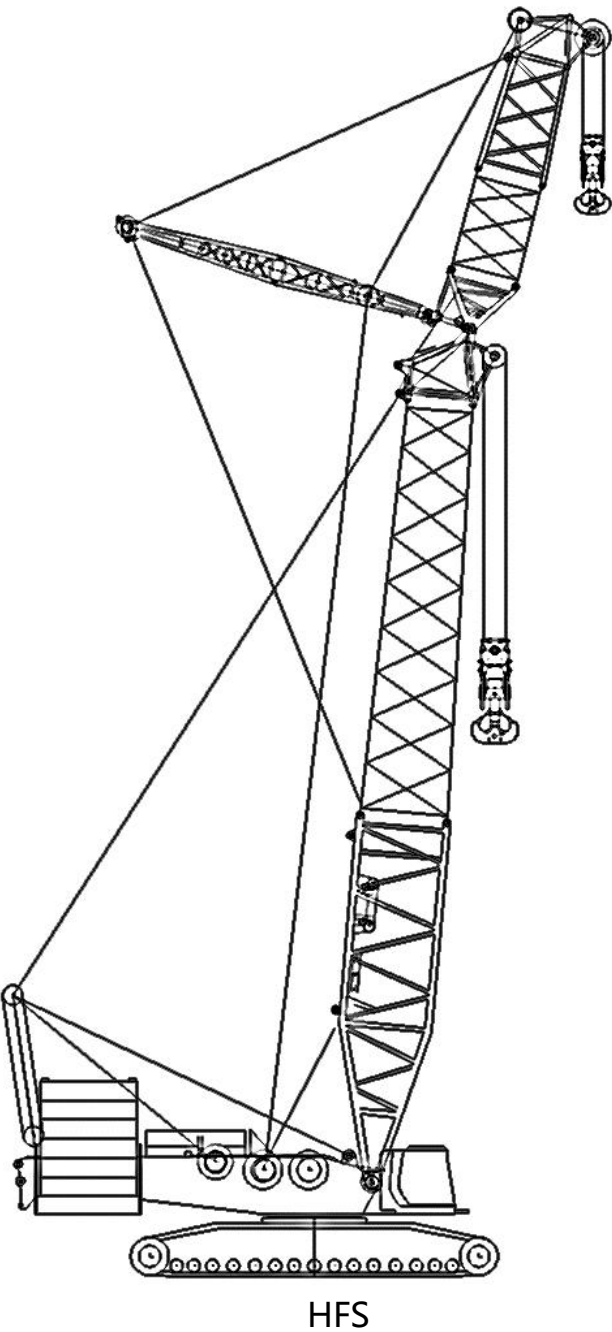
Operation mode and lifting performance-HW

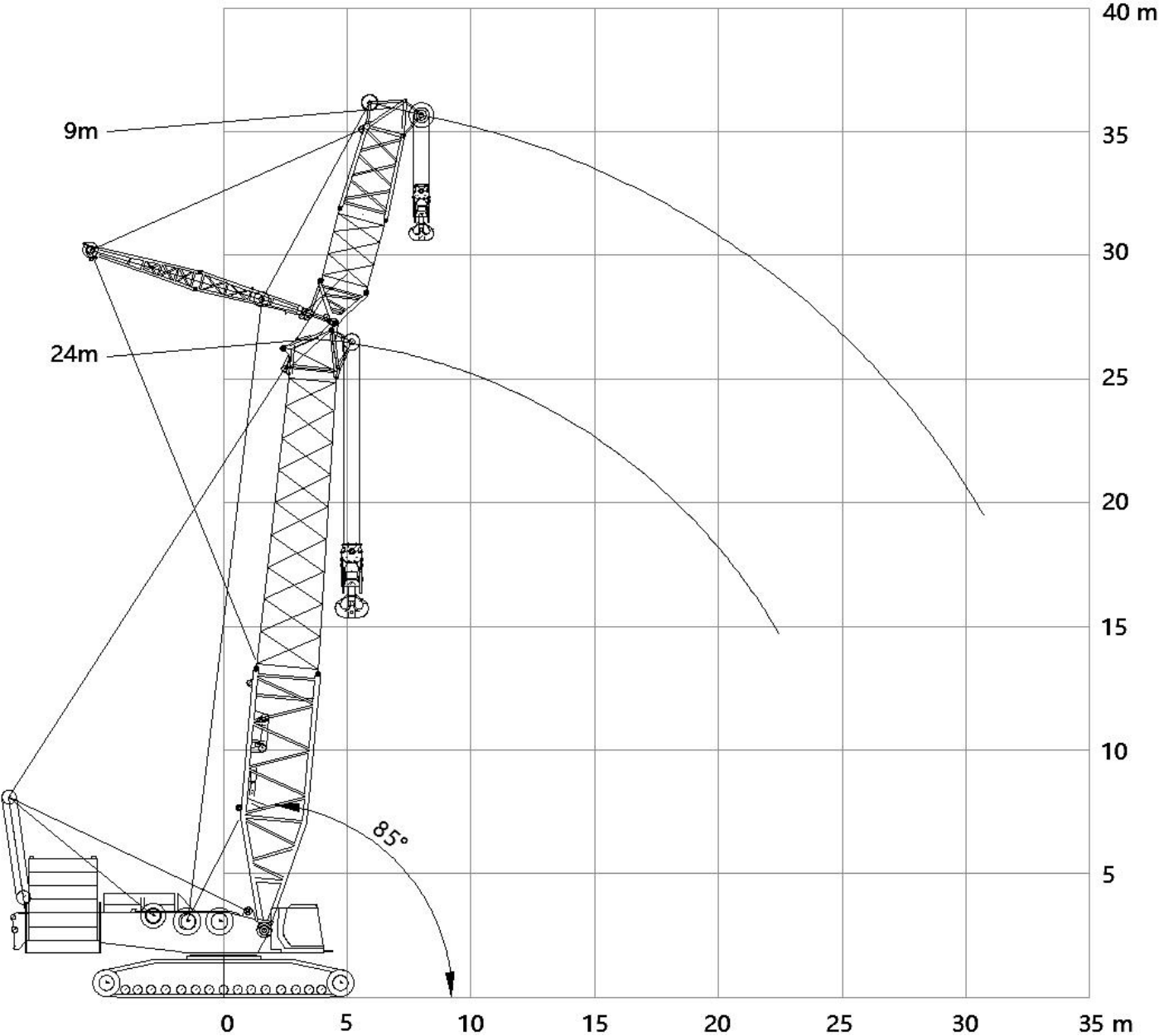
					Main boom length: 60m, tower jib: 24~72m				
	24	30	36	42	48	54	60	66	72
16	116								
18	104	101							
20	95.1	92.4	89.5	86.9					
22	86.8	84.4	81.8	79.5	77.1				
24	79.9	77.7	75.3	73.2	71	69			
26	73.9	71.9	69.7	67.8	65.7	63.9	61.8	54.5	
28	68.8	66.9	64.8	63	61.1	59.4	57.6	54.2	47.4
30		62.5	60.5	58.9	57	55.4	53.7	51.9	47.2
32		58.4	56.7	55.1	53.4	51.9	50.2	48.5	46.9
34		54.3	53.3	51.8	50.1	48.7	47.2	45.5	44
36			50	48.8	47.2	45.9	44.4	42.8	41.3
38			46.6	46.1	44.6	43.3	41.8	40.3	38.9
40				43.2	42.2	40.9	39.5	38.1	36.7
42				40.5	39.9	38.8	37.4	36	34.7
44				38	37.4	36.8	35.5	34.1	32.8
46					35.2	34.8	33.7	32.4	31.1
48					33.2	32.8	32	30.7	29.5
50						30.9	30.3	29.2	28
52						29.2	28.6	27.8	26.6
54						27.7	27.1	26.4	25.3
56							25.6	25	24.1
58							24.3	23.6	23
60							23	22.4	21.8
62								21.2	20.6
64								20.1	19.5
66									18.5
68									17.6
70									16.7

Operation mode and lifting performance-HFS

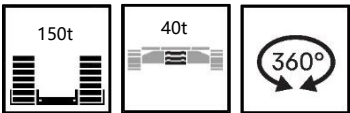
Jib combination			
Jib length	Length of insert section		
	Tower jib butt 1.5m	3m insert section A	Tower jib top 4.5m
9m	1	1	1

Note: Main boom combinations in this operation mode is the same as that in HB operation mode.

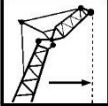




Operation mode and lifting performance-HFS

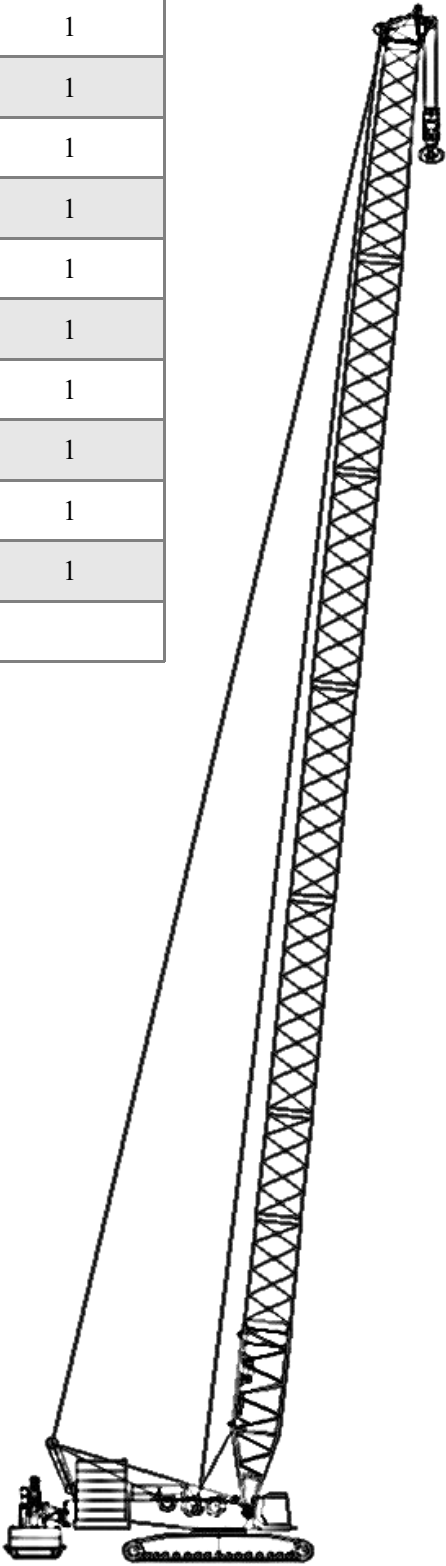


Main boom length: 24m, TBM jib: 9m

					
83.03	6	400	9.1	200	364.0
80.6	7	382	10.5	200	311.4
78.14	8	329	11.9	200	271.5
75.66	9	289	13.3	171	230.5
73.14	10	255	14.6	149	198.6
70.57	11	219	16.0	130	172.5
67.96	12	195	17.4	114	151.5
65.29	13	168	18.7	101	134.6
62.55	14	148	20.1	91.1	120.8
59.73	15	132	21.5	82.1	109.2
56.81	16	118	22.8	74.4	99.3
53.78	17	107	24.2	67.7	90.9
50.61	18	97.3	25.5	61.8	83.5
47.27	19	88.7	26.8	56.6	77.1
43.71	20	81.1	28.2	52	71.3
39.87	21	74.4	29.5	47.8	66.2
35.64	22	68.4	30.8	44.1	61.6

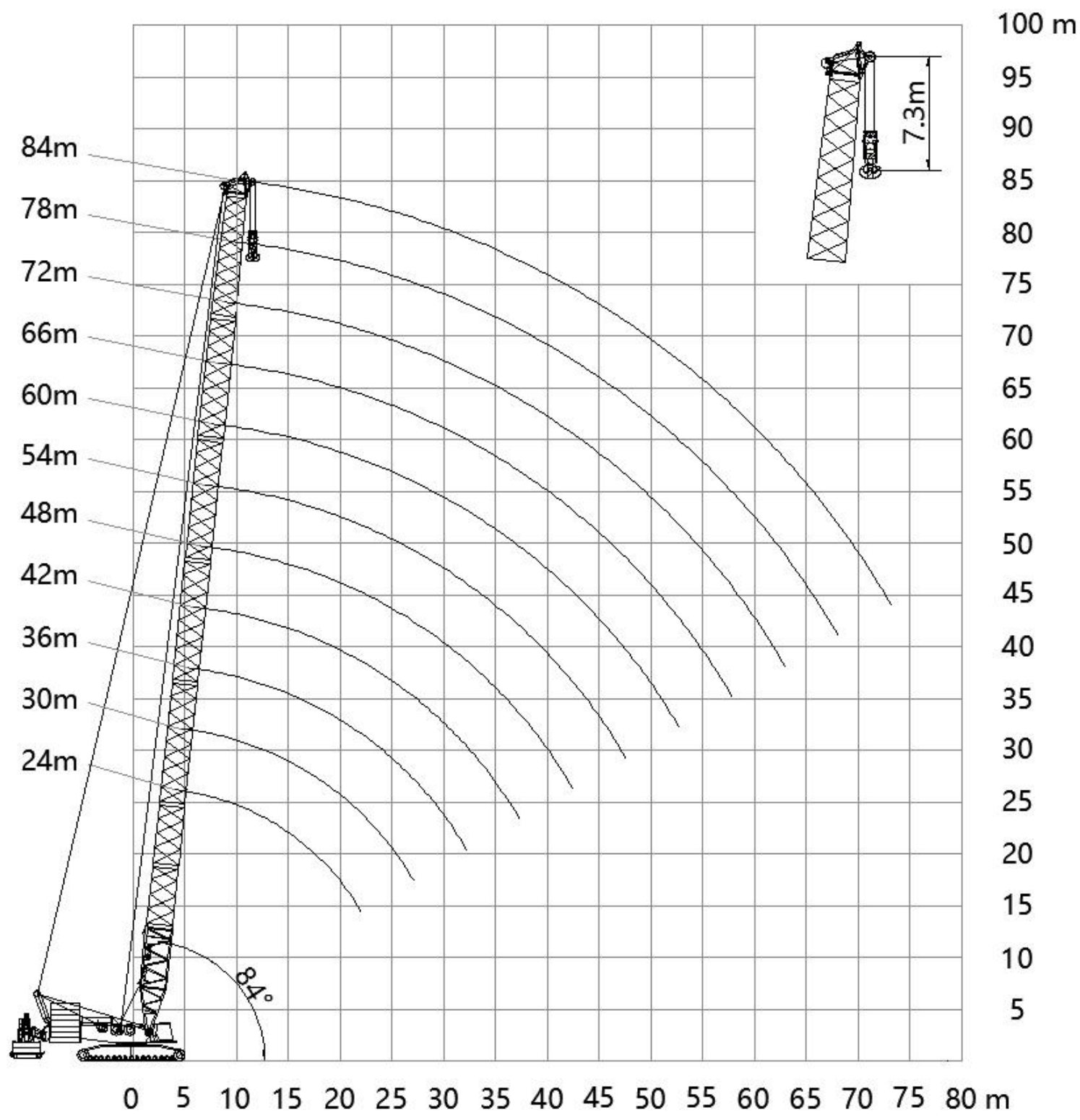
Operation mode and lifting performance-EHB

Main boom combination					
Main boom length	Length of insert section				
	6m insert section	12m thick-wall insert section	12m thick-wall insert section	12m thin-wall insert section	12m transition section
24m					1
30m	1				1
36m		1			1
42m	1	1			1
48m		1	1		1
54m	1	1	1		1
60m	2	1	1		1
66m	1	1	1	1	1
72m	2	1	1	1	1
78m	1	1	1	2	1
84m	2	1	1	2	1
Note: Main boom butt 10.5m and main boom head 1.5m are required.					

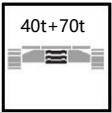
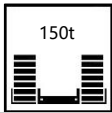
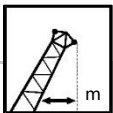


EHB

Operation mode and lifting performance-EHB



Operation mode and lifting performance-EHB



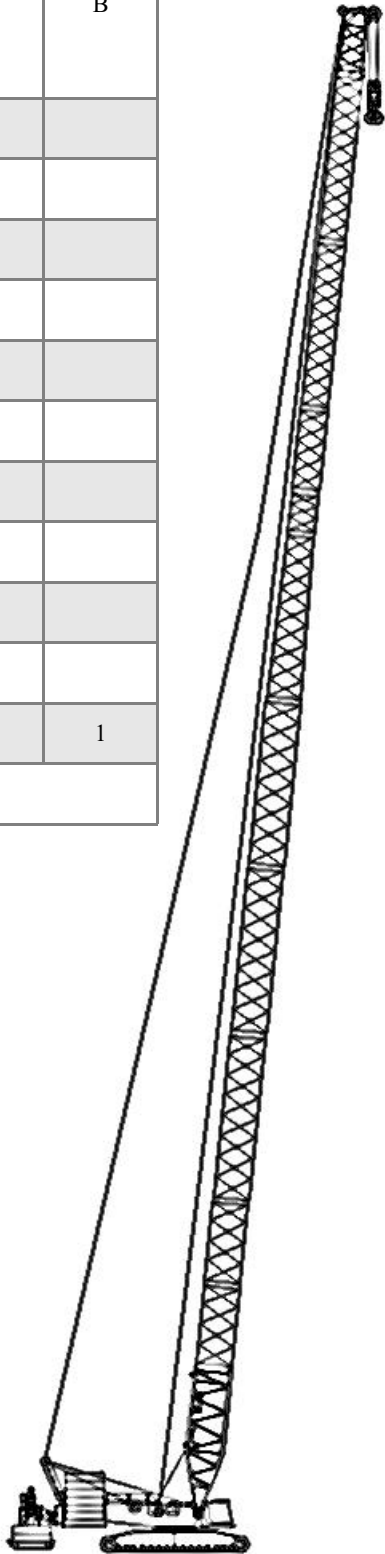
Main boom length: 24~84m

	24	30	36	42	48	54	60	66	72	78	84
6	450*										
7	400*	400*	400*	400*							
8	400*	379*	368*	356*	345	335					
9	380*	350*	340*	313	304	296	289	273			
10	301*	294*	286*	279	271	265	259	253	238	198	
11	270*	264*	258	251	245	239	234	229	224	195	168
12	244*	239	234	228	223	218	213	209	204	192	165
13	223*	219	214	209	204	199	195	191	188	184	162
14	205	201	197	192	188	184	180	177	173	170	160
15	189	186	182	178	174	170	167	164	161	158	154
16	176	173	169	166	162	159	155	153	149	147	144
17	164	161	158	155	151	148	145	143	140	137	134
18	153	151	148	145	142	139	136	134	131	129	126
19	144	142	139	136	134	131	128	126	123	121	118
20	135	134	131	129	126	123	121	118	116	114	112
22	120	120	118	115	113	110	108	106	104	102	100
24		108	106	104	102	99.9	97.7	95.9	93.8	92.1	90
26		98.1	96.9	94.9	93	90.8	88.6	87.1	85	83.4	81.5
28		89.4	88.6	86.8	85	83	80.9	79.4	77.4	76	74.1
30			81.3	79.7	78.1	76.1	74.2	72.8	70.9	69.5	67.7
32			74.8	73.5	72	70.1	68.3	66.9	65.1	63.8	62
34				68	66.6	64.8	63	61.8	60	58.7	57
36				63	61.8	60.1	58.4	57.2	55.5	54.2	52.5
38				58.5	57.4	55.9	54.2	53	51.4	50.1	48.5
40					53.5	52	50.4	49.3	47.7	46.5	44.9
44						45.3	43.8	42.8	41.2	40.1	38.6
48						39.6	38.2	37.3	35.8	34.8	33.3
52							33.4	32.7	31.2	30.2	28.8
56								28.6	27.2	26.3	24.9
60									23.7	22.8	21.4
64									20.5	19.7	18.4
68										17	15.7
72											13.2

Note: The area mark "*" next to the lifting capacity in the table indicates a risk of backward tipping when the hook is empty in these operation modes. Refer to the instructions for the minimum load.

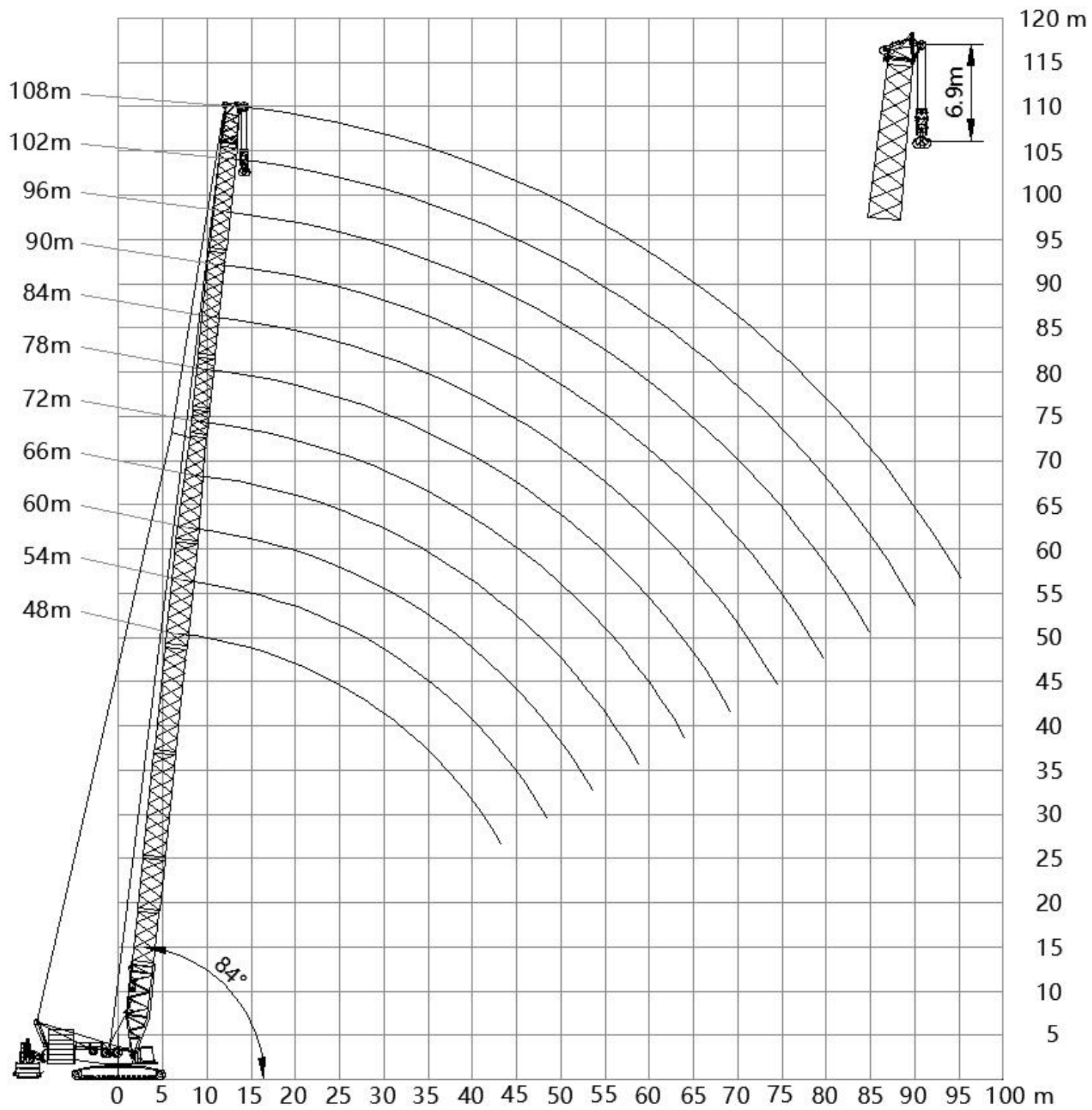
Operation mode and lifting performance-ELB

Light duty main boom combination									
Length	Length of insert section								
	6m insert section	12m thick-wall insert section I	12 m thick-wall insert section	12m thin-wall insert section	12m transition section	3m insert section A	6m insert section	12m insert section A	12m insert section B
48m	1	1			1	1			
54m		1	1		1	1			
60m	1	1	1		1	1			
66m		1	1	1	1	1			
72m	1	1	1	1	1	1			
78m	2	1	1	1	1	1			
84m	2	1	1	1	1	1	1		
90m	2	1	1	1	1	1	2		
96m	2	1	1	1	1	1	1	1	
102m	2	1	1	1	1	1	2	1	
108m	2	1	1	1	1	1	1	1	1
Note: Main boom butt 10.5m and tower jib top 4.5m are required.									

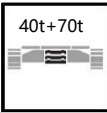
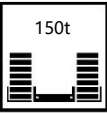
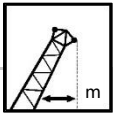


ELB

Operation mode and lifting performance-ELB



Operation mode and lifting performance-ELB



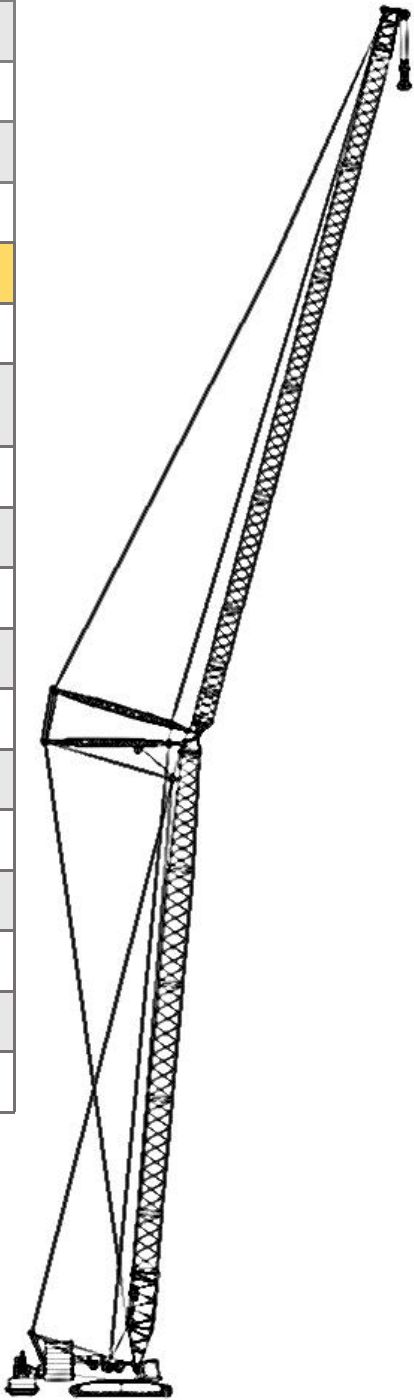
Light duty main boom length: 48~108m

	48	54	60	66	72	78	84	90	96	102	108
8	200*	200*									
10	200	200	200	200	200	200					
12	200	200	200	200	200	196	151	132	123	106	
14	191	189	183	180	176	172	147	129	121	103	90
16	165	164	158	156	152	149	144	125	119	99.8	87.1
18	145	144	139	137	134	131	129	122	115	96.5	84.4
20	129	129	124	122	119	117	115	113	112	93.4	81.8
22	116	116	111	109	107	104	103	102	100	90.5	79.4
24	105	105	101	99.2	97	94.8	93.5	92.3	91.2	87.7	77.1
26	96.3	96.3	92.1	90.3	88.3	86.2	85.1	83.9	83	81.8	75
28	88.4	88.5	84.4	82.8	80.8	78.8	77.7	76.7	75.8	74.8	72.9
30	81.5	81.6	77.7	76.1	74.2	72.3	71.4	70.4	69.6	68.6	67.8
32	75.4	75.7	71.8	70.3	68.5	66.7	65.8	64.8	64.1	63.1	62.4
34	70.1	70.4	66.6	65.2	63.4	61.6	60.8	59.9	59.2	58.3	57.6
36	65.3	65.6	62	60.6	58.9	57.1	56.3	55.5	54.9	54	53.3
38	60.9	61.4	57.8	56.5	54.8	53.1	52.4	51.6	51	50.1	49.5
40	57	57.5	54	52.8	51.1	49.5	48.8	48	47.4	46.6	46
44		50.8	47.5	46.4	44.8	43.2	42.5	41.8	41.3	40.5	40
48		45	42	40.9	39.4	37.8	37.2	36.6	36.1	35.3	34.9
52			37.2	36.3	34.8	33.3	32.8	32.1	31.7	31	30.5
56				32.2	30.8	29.4	28.9	28.3	27.9	27.2	26.8
60					27.3	25.9	25.5	24.9	24.6	23.9	23.5
64					24.2	22.9	22.5	22	21.6	21	20.6
68						20.1	19.8	19.3	19	18.4	18
72							17.4	17	16.7	16.1	15.7
76								14.8	14.5	14	13.7
80								12.4	12.6	12.1	11.8
84									10.8	10.3	10.1
88										8.7	8.5
92											7

Note: The area mark "*" next to the lifting capacity in the table indicates a risk of backward tipping when the hook is empty in these operation modes. Refer to the instructions for the minimum load.

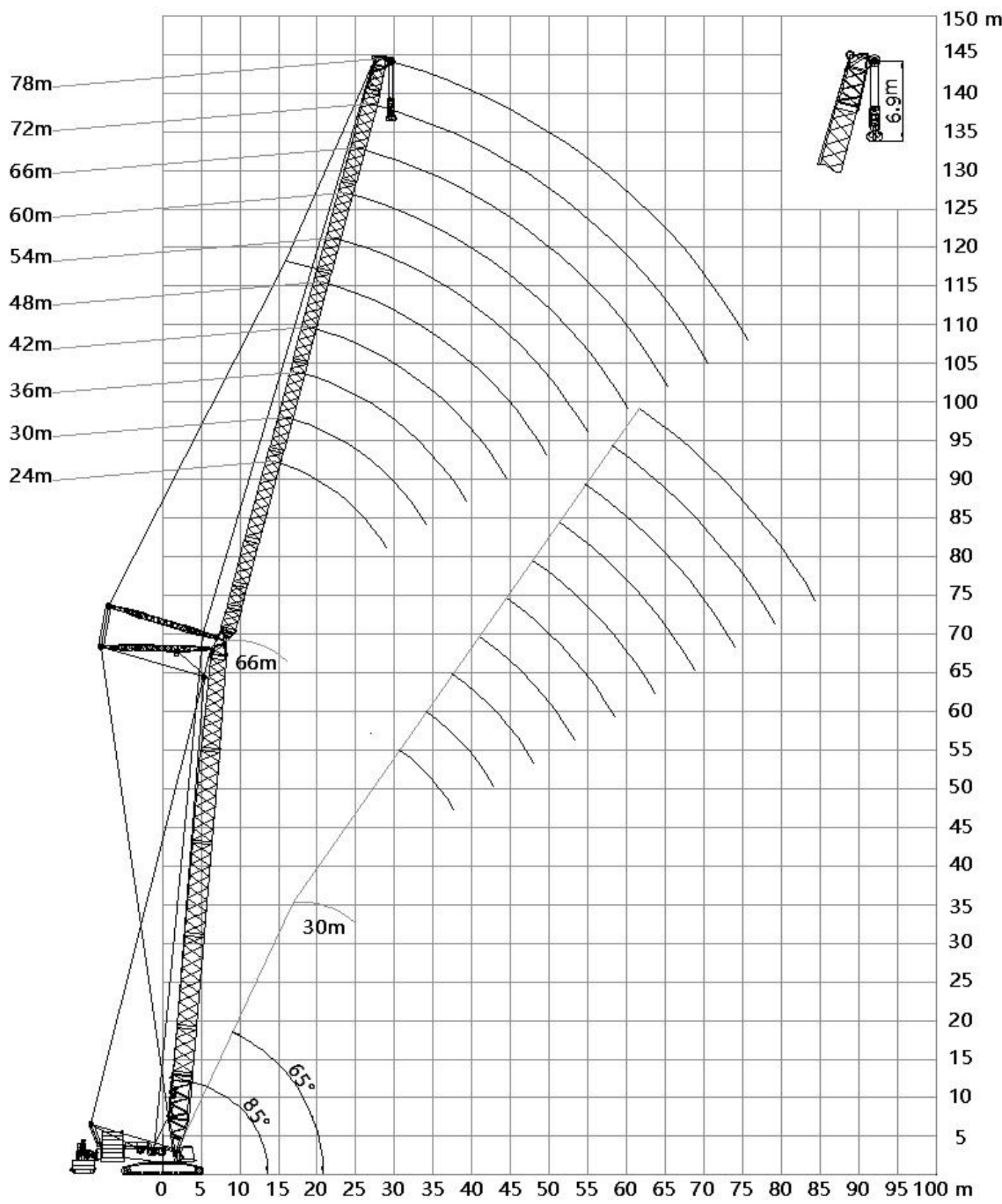
Operation mode and lifting performance-EHW

Main boom combination						
Main boom length	Length of insert section					
	6m insert section	12m thick-wall insert section	12m thick-wall insert section	12m thin-wall insert section	12m transition section	
30m	1				1	
36m		1			1	
42m	1	1			1	
48m		1	1		1	
54m	1	1	1		1	
60m	2	1	1		1	
66m	1	1	1	1	1	
Note: Main boom butt 10.5m and main boom head 1.5m are required.						
Tower jib combination						
Jib length	Length of insert section					
	3m insert section A	3m insert section B	6m insert section	12m insert section A	12m insert section B	12m insert section C
24m	1	1		1		
30m	1	1	1	1		
36m	1	1	2	1		
42m	1	1	1	2		
48m	1	1	2	2		
54m	1	1	1	2	1	
60m	1	1	2	2	1	
66m	1	1	1	2	1	1
72m	1	1	2	2	1	1
78m	1	1	1	2	1	2
Note: Tower jib butt 1.5m and tower jib top 4.5m are required.						

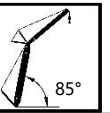
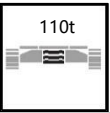
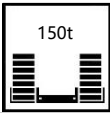
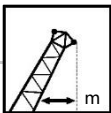


EHW

Operation mode and lifting performance-EHW



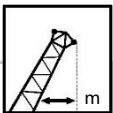
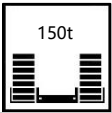
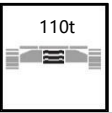
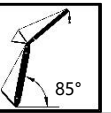
Operation mode and lifting performance-EHW



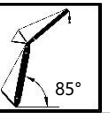
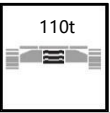
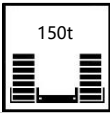
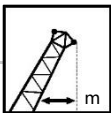
Main boom length: 30m, tower jib: 24~78m

	24	30	36	42	48	54	60	66	72	78
14	197	193								
16	171	169	166							
18	152	149	147	143						
20	131	132	132	130	121					
22	114	115	115	115	115	99.5	82.9			
24	101	102	101	101	101	99.2	82.6	71.4		
26	90.5	91.4	91.1	91.1	90.6	90.6	82.2	71.1	60.7	
28		82.4	82.3	82.2	81.7	81.5	81.3	70.8	60.4	51.3
30		74.9	74.9	74.8	74.3	74.1	73.7	70.5	60.1	50.9
32			68.5	68.5	68.1	67.8	67.3	66.8	59.8	50.6
34			63	63.1	62.6	62.3	61.8	61.3	59.4	50.2
36			58.2	58.3	57.9	57.6	57.1	56.6	56.2	49.8
38				54.1	53.7	53.4	52.9	52.4	52	49.5
40				50.4	50	49.8	49.3	48.8	48.3	48
42					46.7	46.5	46	45.5	45	44.7
44					43.8	43.5	43.1	42.6	42	41.7
46					41	40.9	40.4	39.9	39.4	39
48						38.4	38	37.5	37	36.6
50						36.2	35.8	35.3	34.8	34.4
52						34.1	33.8	33.3	32.8	32.4
54							31.9	31.5	31	30.5
56							30.2	29.8	29.3	28.8
58								28.2	27.7	27.3
60								26.7	26.2	25.8
62								25.3	24.9	24.5
64									23.6	23.2
66									22.4	22
68										20.9
70										19.8

Operation mode and lifting performance-EHW

					Main boom length: 48m, tower jib: 24~78m					
	24	30	36	42	48	54	60	66	72	78
14	185									
16	162	159								
18	143	141	139							
20	129	127	125	119						
22	117	115	113	112	99.8	84.2				
24	107	105	104	102	99.3	83.9	71.4			
26	98.7	97.3	95.7	94.3	92.7	83.5	71.1	62		
28		90.1	88.5	87.2	85.7	83.1	70.7	61.8	53.4	45.9
30		83.7	82.3	81	79.6	78.4	70.3	61.6	53.2	45.7
32		78.2	76.8	75.6	74.2	73.1	69.9	61.3	53	45.5
34			71.9	70.8	69.5	68.4	67.2	61	52.7	45.2
36			67.6	66.5	65.2	64.2	63	60.7	52.4	44.9
38			63.6	62.6	61.4	60.4	59.3	58	52.1	44.7
40				59.1	58	57	55.9	54.6	51.9	44.4
42				55.9	54.8	53.9	52.8	51.6	50.5	44.1
44					51.9	51	50	48.8	47.7	43.8
46					49.3	48.4	47.4	46.2	45.2	43.5
48					46.9	46	45	43.9	42.8	41.9
50						43.8	42.8	41.7	40.7	39.8
52						41.7	40.8	39.7	38.7	37.8
54							38.9	37.8	36.8	36
56							37.1	36	35.1	34.2
58							35.4	34.4	33.5	32.6
60								32.9	31.9	31.1
62								31.4	30.5	29.7
64								30.1	29.2	28.3
66									27.9	27.1
68									26.7	25.9
70										24.8
74										22.7

Operation mode and lifting performance-EHW



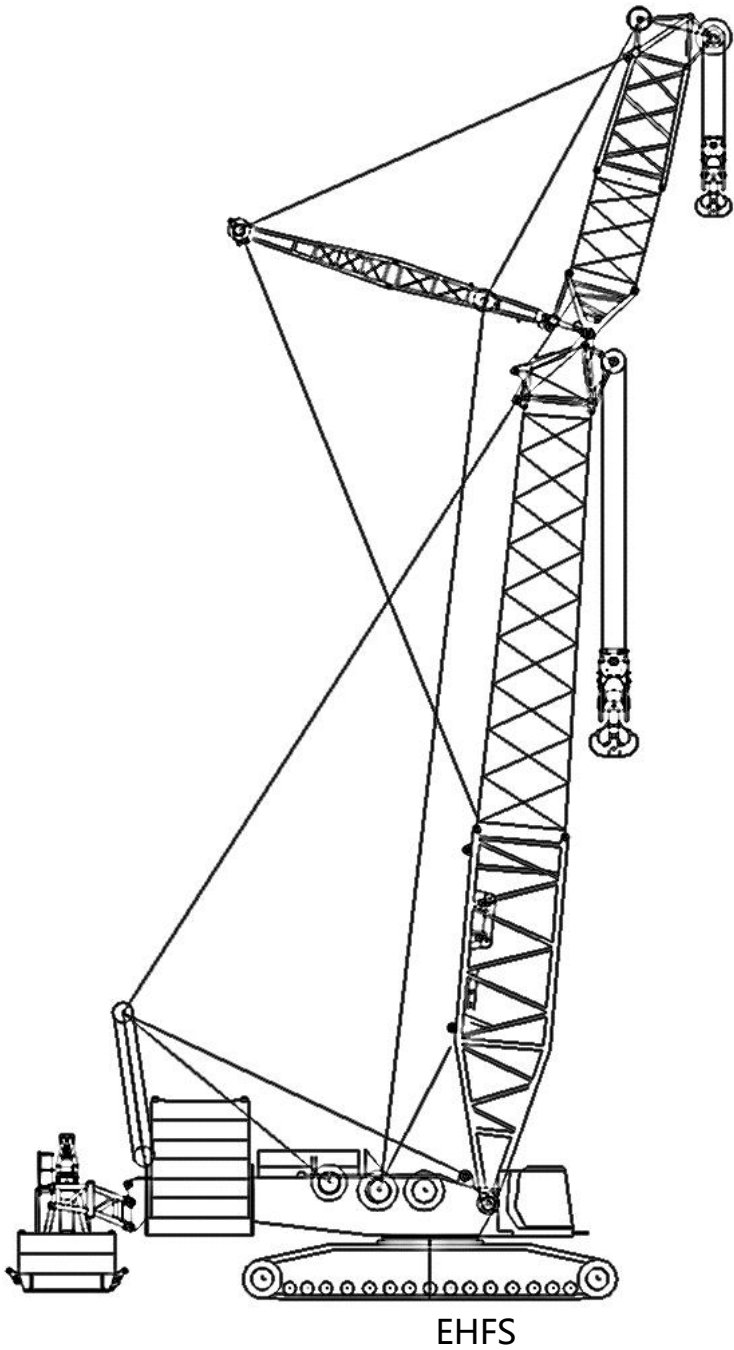
Main boom length: 66m, tower jib: 24~78m

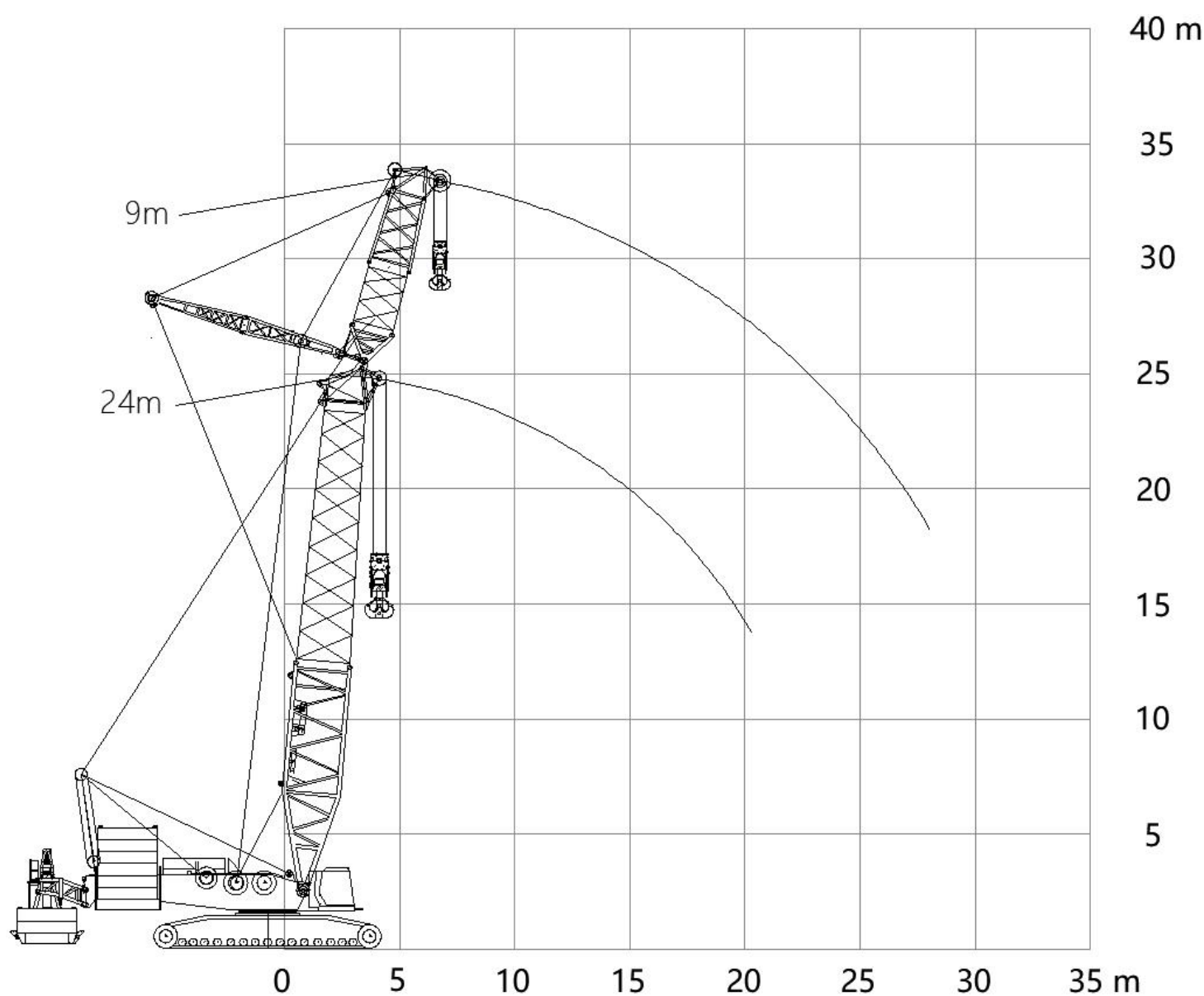
	24	30	36	42	48	54	60	66	72	78
16	135									
18	131	115								
20	122	112	98.5							
22	111	108	96.5	84.9	74.3					
24	101	100	94.2	83.5	73.5	64.3				
26	93.8	92.5	90.9	82	72.5	63.7	55.8			
28	86.8	85.7	84.2	80.3	71.5	63.1	55.4	49.2	43.3	
30		79.7	78.3	76.2	70.3	62.3	54.9	48.9	43.1	37.8
32		74.5	73.1	71.6	67	61.5	54.4	48.6	42.9	37.6
34		69.8	68.5	67.2	63.5	59.2	53.8	48.2	42.6	37.4
36			64.4	62.9	59.9	56.4	52.4	47.8	42.3	37.1
38			60.6	58.8	56.4	53.5	50.1	46.7	42	36.9
40				54.9	53.1	50.7	47.8	44.9	41.5	36.6
42				51.2	49.8	47.9	45.5	43	40	36.4
44				47.8	46.8	45.3	43.3	41.1	38.5	35.6
46					43.9	42.7	41.1	39.3	37	34.4
48					41.1	40.3	39	37.4	35.5	33.2
50					38.5	38	36.9	35.7	34	31.9
52						35.7	34.9	33.9	32.5	30.7
54						33.7	33.1	32.3	31	29.5
56							31.3	30.7	29.6	28.3
58							29.6	29.1	28.3	27.1
60							28	27.6	26.9	26
62								26.2	25.7	24.8
64								24.9	24.5	23.8
66									23.3	22.7
68									22.2	21.7
70									21.1	20.7
74										18.9

Operation mode and lifting performance-EHFS

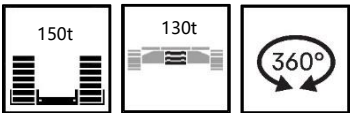
Jib combination			
Jib length	Length of insert section		
	Tower jib butt 1.5m	3m insert section A	Tower jib 4.5m
9m	1	1	1

Note: Main boom combinations in this operation mode are the same as that in HB operation mode.





Operation mode and lifting performance-EHFS

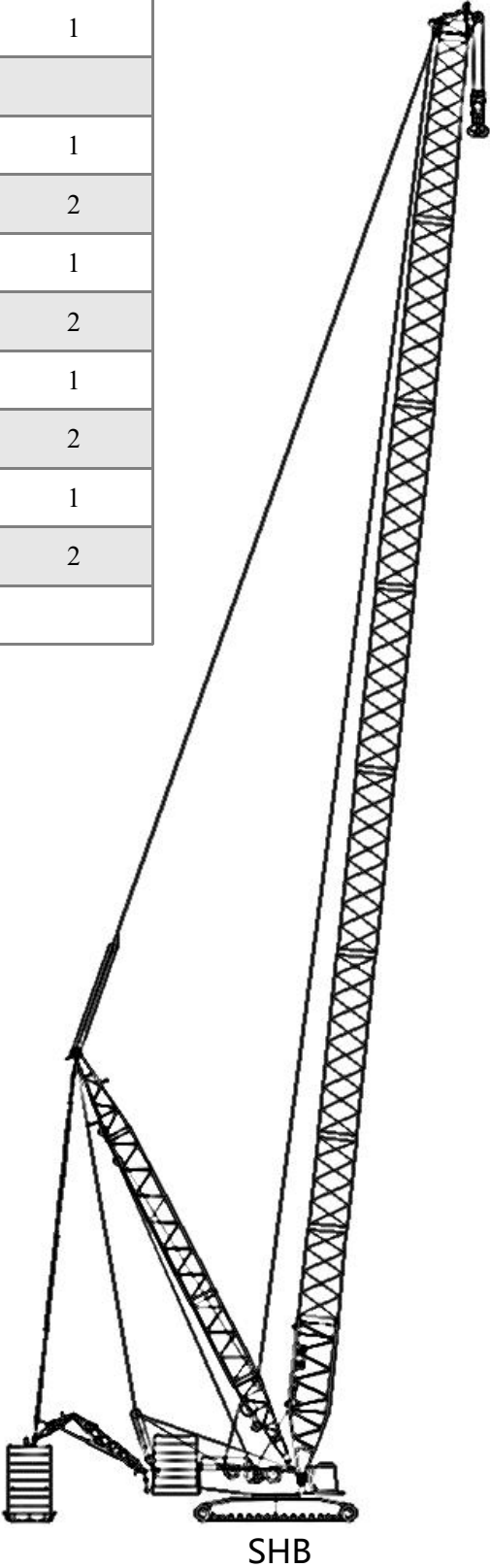


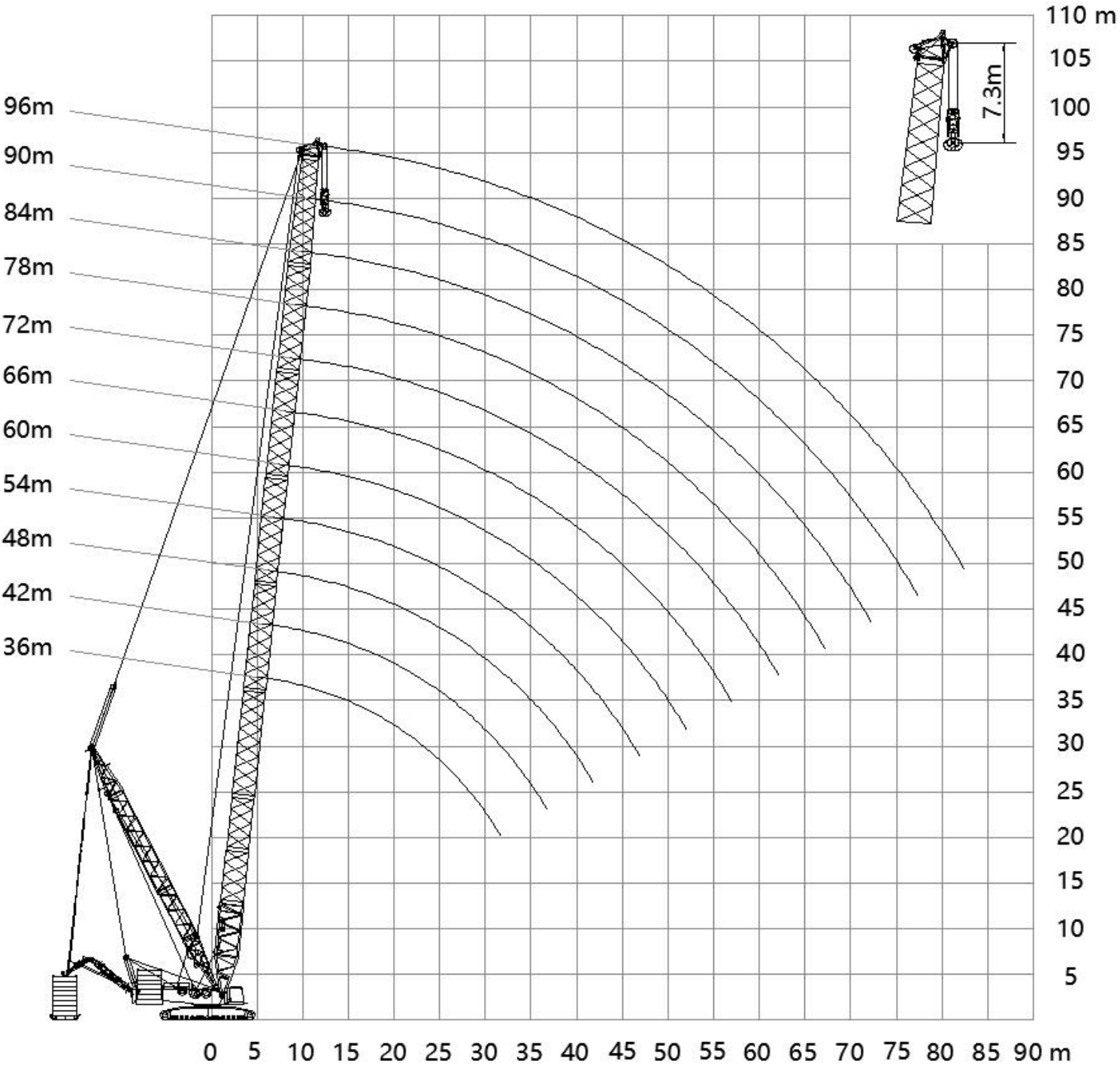
Main boom length: 24m, fixed jib: 9m

83.03	6	400	9.1	200	387.9
80.6	7	400	10.5	200	373.2
78.14	8	400	11.9	200	346.7
75.66	9	378	13.3	200	305.2
73.14	10	334	14.6	197	272.1
70.57	11	299	16.0	185	243.3
67.96	12	272	17.4	175	219.2
65.29	13	244	18.7	160	199.1
62.55	14	222	20.1	146	182.1
59.73	15	203	21.5	135	167.6
56.81	16	186	22.8	124	155.0
53.78	17	172	24.2	115	143.9
50.61	18	159	25.5	107	134.1
47.27	19	148	26.8	100	125.3
43.71	20	138	28.2	94	117.4
39.87	21	129	29.5	88	110.3
35.64	22	120	30.8	82.6	103.7

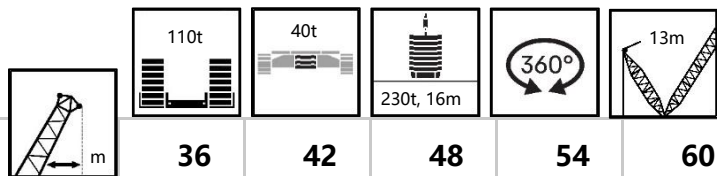
Operation mode and lifting performance-SHB

Main boom combination						
Main boom length	Length of insert section					
	6m insert section	12m thick-wall insert section	12m thick-wall insert section	12m thin-wall insert section	12m transition section	6m insert section
36m		1			1	
42m	1	1			1	1
48m		1	1		1	
54m	1	1	1		1	1
60m	2	1	1		1	2
66m	1	1	1	1	1	1
72m	2	1	1	1	1	2
78m	1	1	1	2	1	1
84m	2	1	1	2	1	2
90m	1	1	2	2	1	1
96m	2	1	2	2	1	2
Note: Main boom butt 10.5m and main boom head 1.5m are required.						





Operation mode and lifting performance-SHB



Main boom length: 36~84m

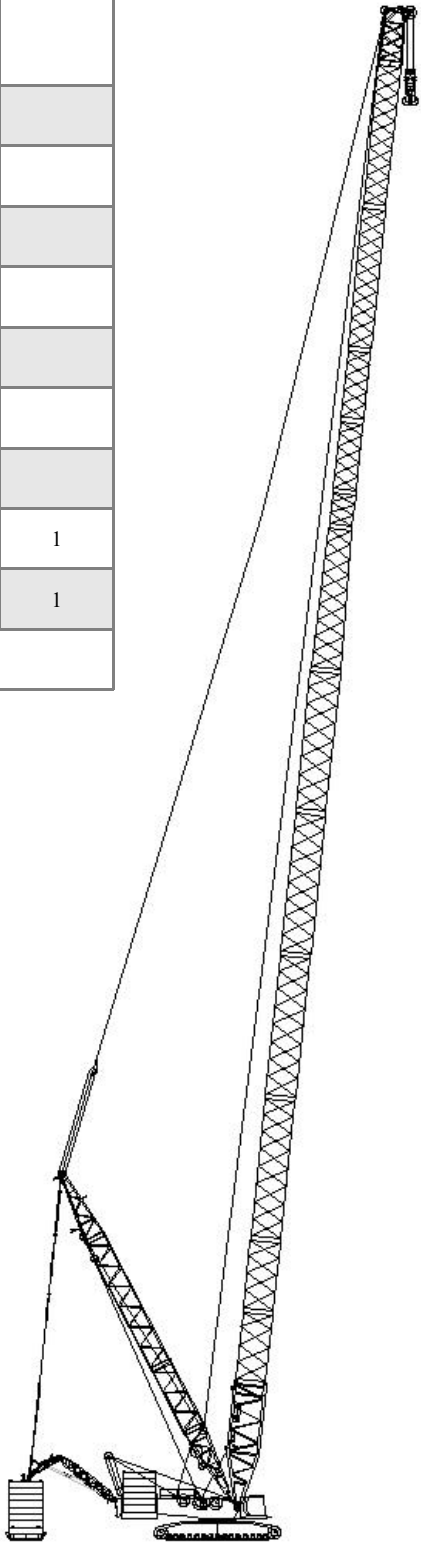
	36	42	48	54	60	66	72	78	84	(90)	(96)
8	450*										
10	400*	400*	400*	395*	354*						
12	400*	400*	400*	395*	354*	302*	269*	227*			
14	394	393	393	392	354	302*	269*	227*	197*	170*	147*
16	342	343	343	342	341	301	269*	226*	197*	170*	147*
18	300	303	303	302	301	300	269	226*	196*	169*	147*
20	266	271	271	270	269	269	268	225*	194*	168*	146*
22	238	245	245	244	243	243	242	225	193*	167*	145*
24	215	223	223	222	221	221	220	219	192	166*	144*
26	194	205	204	204	203	202	201	201	190	164	143*
28	177	187	188	188	187	186	185	185	184	163	142*
30	161	171	175	174	173	173	172	171	170	162	140
32	147	157	163	162	161	161	160	159	158	157	139
34		144	152	151	150	150	149	149	148	147	138
36		133	141	142	141	141	140	139	138	137	136
38		122	131	133	133	132	131	131	130	129	128
40			121	125	125	124	123	123	122	121	120
44				110	110	110	109	109	108	107	106
48				95.7	98.9	98.6	97.8	97.3	96.4	95.7	94.7
52					87.9	88.7	87.9	87.5	86.6	85.8	84.9
56						80.3	79.6	79.1	78.2	77.4	76.5
60							72.4	71.9	71.1	70.3	69.3
64							65.8	65.7	64.8	64	63.1
68								60.2	59.3	58.6	57.6
72									54.5	53.7	52.8
76										49.4	48.5
80										45.5	44.6
84											41.1

Note: (90) and (96) are optional lengths.

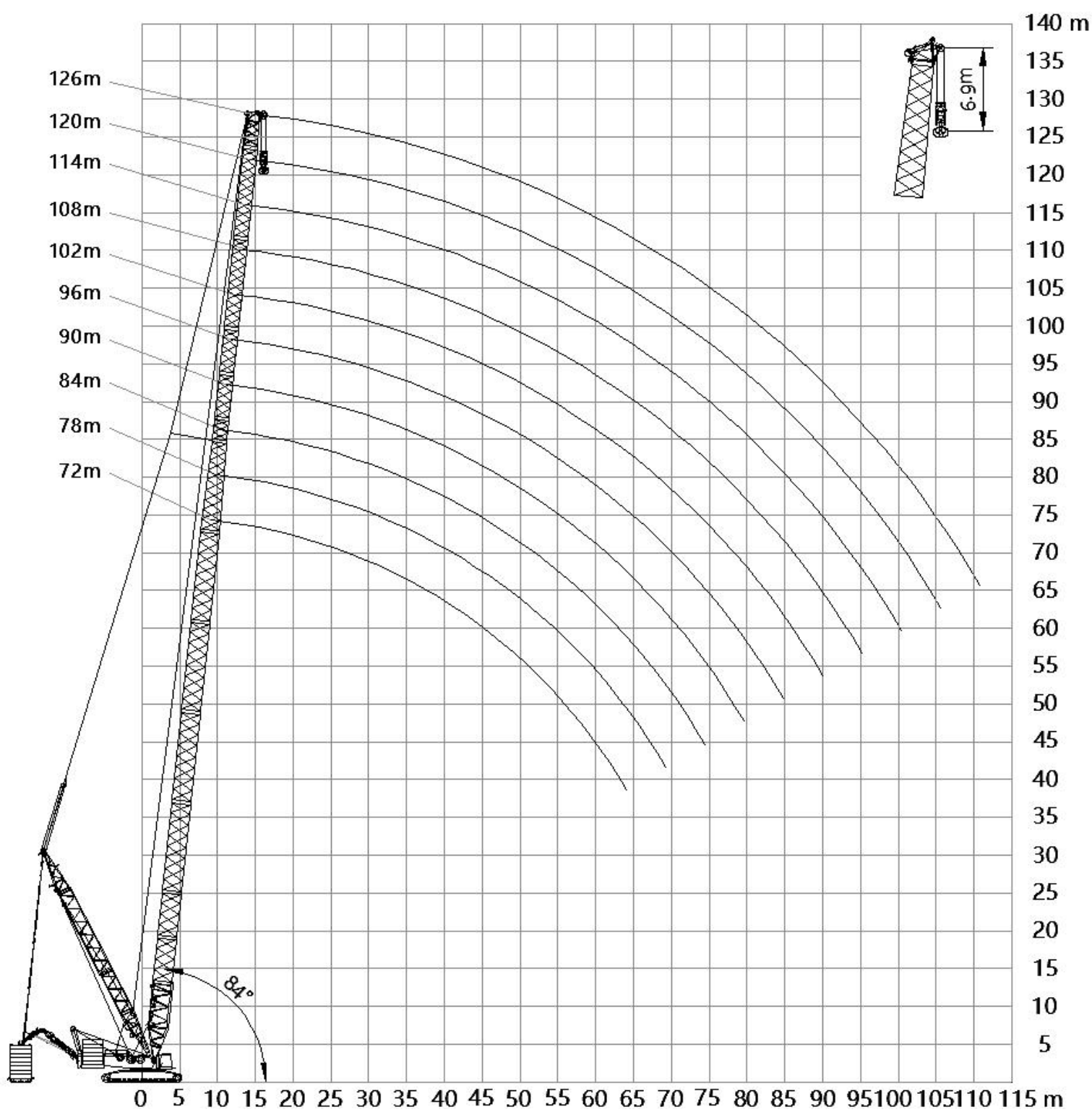
The area mark "*" next to the lifting capacity in the table indicates a risk of backward tipping when the hook is empty in these operation modes. Refer to the instructions for the minimum load.

Operation mode and lifting performance-SLB

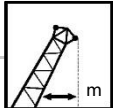
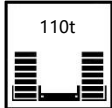
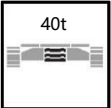
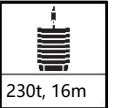
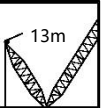
Light duty main boom combination									
Length	Length of insert section								
	6m insert section	12m thick-wall insert section I	12 m thick-wall insert section	12m thin-wall insert section	12m transition section	3m insert section A	6m insert section	12m insert section A	12m insert section B
72m	1	1	1	1	1	1			
78m	2	1	1	1	1	1			
84m	1	1	1	2	1	1			
90m	2	1	1	2	1	1			
96m	2	1	1	2	1	1	1		
108m	2	1	1	2	1	1		1	
114m	2	1	1	2	1	1	1	1	
120m	2	1	1	2	1	1		1	1
126m	2	1	1	2	1	1	1	1	1
Note: Main boom butt 10.5m and tower jib top 4.5m are required.									



SLB



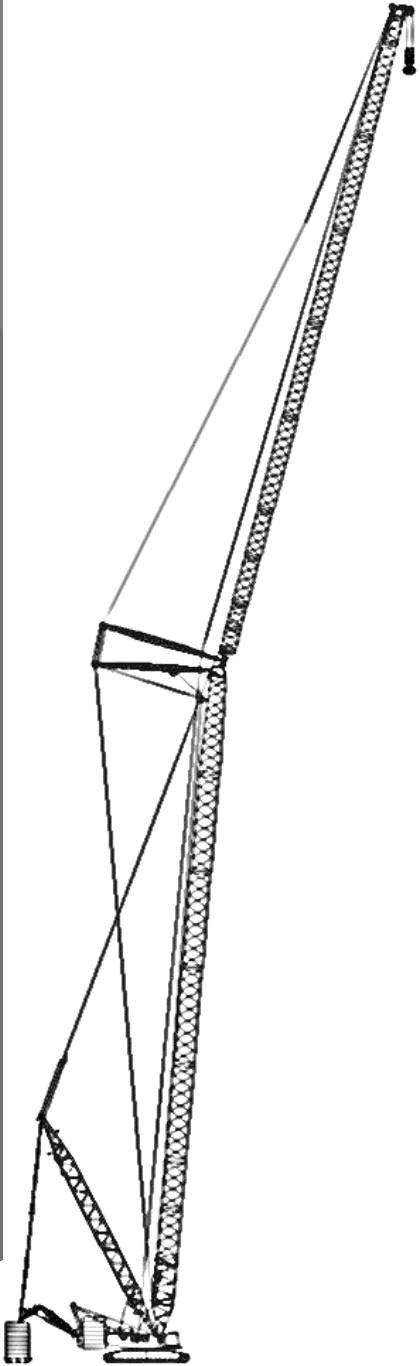
Operation mode and lifting performance-SLB

Light duty main boom length: 72~126m										
										
	72	78	84	90	96	102	108	114	120	126
12	200*	200*								
14	200*	200*	195*	155*	141*					
16	200*	200*	194*	155*	141*	123*	105*	92.1*		
18	200*	200*	193*	154*	141*	122*	104*	91.6*	78.8*	68.8*
20	200*	200*	191*	154*	140*	121*	103*	91*	78.3*	68.2*
22	200*	200*	190*	154*	139*	120*	102*	90.4*	77.7*	67.7*
24	200	200	189	153*	139*	119*	102*	89.7*	77.1*	67.1*
26	200	200	187	153*	138*	118*	101*	89.1*	76.5*	66.6*
28	188	187	186	153	137*	117*	100*	88.5*	76*	66.1*
30	175	174	173	151	136*	116*	99.1*	87.8*	75.4*	65.5*
32	163	162	161	150	134	115*	98.2*	87.2*	74.8*	65*
34	152	151	150	149	133	114*	97.2*	86.6*	74.3*	64.4*
36	143	142	141	140	132	113	96.2*	85.9*	73.7*	63.9*
38	134	133	133	131	131	112	95.3*	85.3*	73.1*	63.4*
40	126	126	125	124	124	111	94.3*	84.6*	72.5*	62.8*
44	112	111	111	110	110	108	91.6	83.2*	71.4*	61.1*
48	100	99.9	99.4	98.4	98.2	98.3	86.9	80.5	70.3*	59*
52	90.9	90.1	89.5	88.6	88.4	88.4	82.5	78	68.2	57*
56	82.6	81.7	81.2	80.2	80.1	80.1	76.6	75.6	66.1	55.1*
60	75.4	74.6	74	73.1	72.9	72.9	70	72.3	64.1	53.3
64	69.2	68.3	67.8	66.8	66.7	66.7	63.8	66.1	62.3	51.6
68		62.8	62.3	61.4	61.2	61.2	58	60.6	60.3	50
72			57.5	56.5	56.4	56.4	52.6	55.8	55.5	48.6
76				52.2	52.1	52.1	47.5	51.5	51.2	47.2
80				48.3	48.2	48.3	42.7	47.7	47.3	46
84					44.7	44.8	38.1	44.2	43.9	43.4
88						41.6	33.7	41.1	40.7	40.3
92							29.4	38.2	37.9	37.4
96								35.6	35.2	34.8
100								33.2	32.8	32.4
104									30.6	30.2
108										28.1

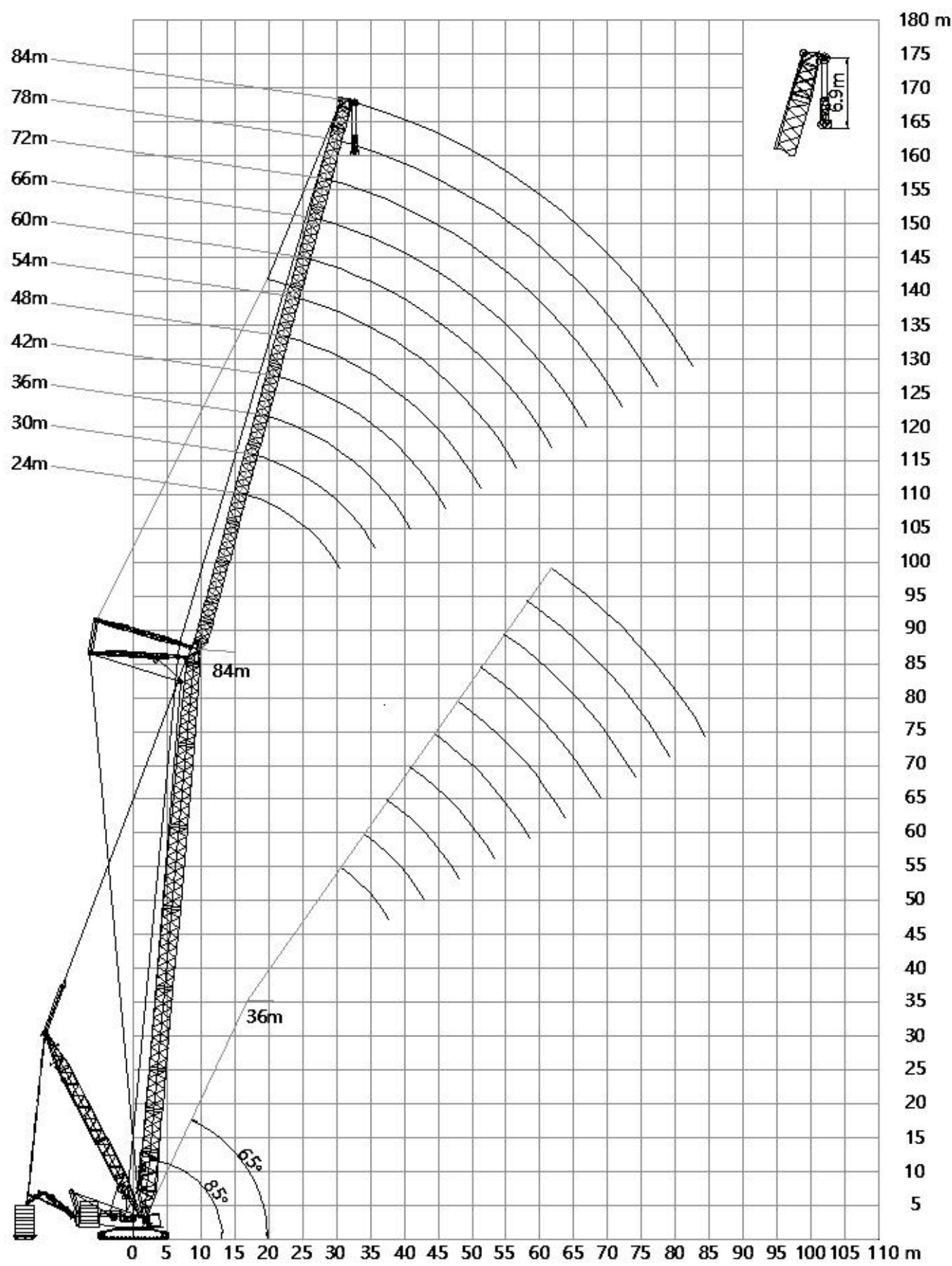
Note: The area mark "*" next to the lifting capacity in the table indicates a risk of backward tipping when the hook is empty in these operation modes. Refer to the instructions for the minimum load.

Operation mode and lifting performance-SHW

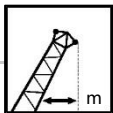
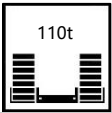
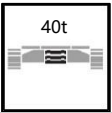
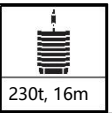
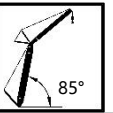
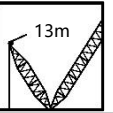
Main boom combination						
Main boom length	Length of insert section					
	6m insert section	12m thick-wall insert section	12m thick-wall insert section	12m thin-wall insert section	12m transition section	6m insert section
36m		1			1	
42m	1	1			1	1
48m		1	1		1	
54m	1	1	1		1	1
60m	2	1	1		1	2
66m	1	1	1	1	1	1
72m	2	1	1	1	1	2
78m	1	1	1	2	1	1
84m	2	1	1	2	1	2
Note: Main boom butt 10.5m and main boom head 1.5m are required.						
Tower jib combination						
Jib length	Length of insert section					
	3m insert section A	3m insert section B	6m insert section	12m insert section A	12m insert section B	12m insert section C
24m	1	1		1		
30m	1	1	1	1		
36m	1	1	2	1		
42m	1	1	1	2		
48m	1	1	2	2		
54m	1	1	1	2	1	
60m	1	1	2	2	1	
66m	1	1	1	2	1	1
72m	1	1	2	2	1	1
78m	1	1	1	2	1	2
84m	1	1	2	2	1	2
Note: Tower jib butt 1.5m and tower jib top 4.5m are required.						



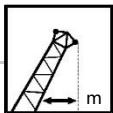
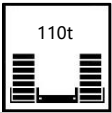
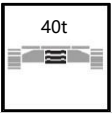
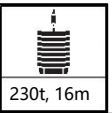
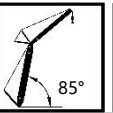
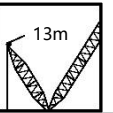
SHW



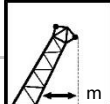
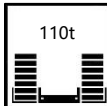
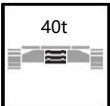
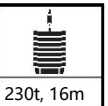
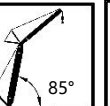
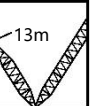
Operation mode and lifting performance-SHW

							Main boom length 36m, tower jib length 24~84m				
	24	30	36	42	48	54	60	66	72	78	84
14	200										
16	200	196									
18	200	194	162	137							
20	200	192	161	137	116						
22	184	186	160	136	116	96.9					
24	156	166	159	135	115	96.6	80.8	70			
26	128	150	154	134	114	96.1	80.4	69.7	59.7		
28		136	140	133	114	95.6	79.9	69.4	59.4	50.6	
30		123	129	128	113	95.1	79.5	69.1	59.1	50.2	43.9
32		104	119	118	110	94.5	79	68.7	58.7	49.9	43.6
34			107	110	105	93.9	78.4	68.4	58.4	49.5	43.3
36			93.4	102	100	91.2	77.9	68	58	49.2	43
38				95.7	95.1	87.5	77.3	67.6	57.7	48.8	42.6
40				85	90	83.7	76.2	67.2	57.3	48.4	42.3
42				75	81.6	79.9	73.5	66.8	57	48.1	42
44					73.3	76.1	70.6	65.4	56.6	47.7	41.7
46					65.7	72.4	67.8	63.3	56.2	47.4	41.4
48						66.7	65	61.1	55.9	47	41
50						60.5	62.2	58.9	54.3	46.7	40.7
52						54.6	59.4	56.7	52.7	46.3	40.4
54							55.4	54.5	51	46	40.1
56							50.4	52.3	49.3	45.2	39.8
58							45.7	50.2	47.6	43.9	39.6
60								46.2	45.9	42.6	39.3
62								42.1	44.2	41.3	38.5
64									42.4	40	37.5
66									39	38.7	36.4
68									35.6	37.5	35.4
70										36	34.4
74											32.3
78											28

Operation mode and lifting performance-SHW

							Main boom length 60m, tower jib length 24~84m				
	24	30	36	42	48	54	60	66	72	78	84
16	177										
18	174	147									
20	164	145	123	103							
22	151	138	122	103	88						
24	139	129	117	103	87.9	74.9					
26	127	120	111	101	87.6	74.8	64.1	56			
28	116	111	104	96.1	87.2	74.6	63.9	56	48.6		
30		102	97.1	90.7	83.4	74.3	63.7	55.9	48.5	41.9	
32		94.3	90.4	85.4	79.4	72.7	63.5	55.8	48.4	41.8	36.7
34		86.8	83.9	80.1	75.3	69.6	63.2	55.6	48.3	41.6	36.6
36			77.8	75	71.2	66.5	61.2	55.4	48.1	41.5	36.5
38			72.1	70.1	67.1	63.3	58.7	54.3	48	41.3	36.3
40				65.4	63.2	60.1	56.2	52.4	47.8	41.1	36.2
42				61	59.4	56.9	53.7	50.4	46.5	41	36
44				56.9	55.7	53.8	51.2	48.4	44.9	40.8	35.8
46					52.3	50.9	48.7	46.3	43.3	39.8	35.7
48					49	48	46.3	44.3	41.7	38.6	35.5
50						45.3	43.9	42.3	40	37.3	34.5
52						42.7	41.7	40.3	38.4	36	33.5
54						40.2	39.5	38.4	36.8	34.7	32.4
56							37.4	36.6	35.2	33.4	31.4
58							35.4	34.8	33.7	32.1	30.3
60							33.5	33.1	32.2	30.8	29.3
62								31.5	30.8	29.6	28.2
64								29.9	29.4	28.4	27.2
66									28	27.2	26.2
68									26.7	26.1	25.2
70									25.5	24.9	24.2
74										22.8	22.3
78											20.6

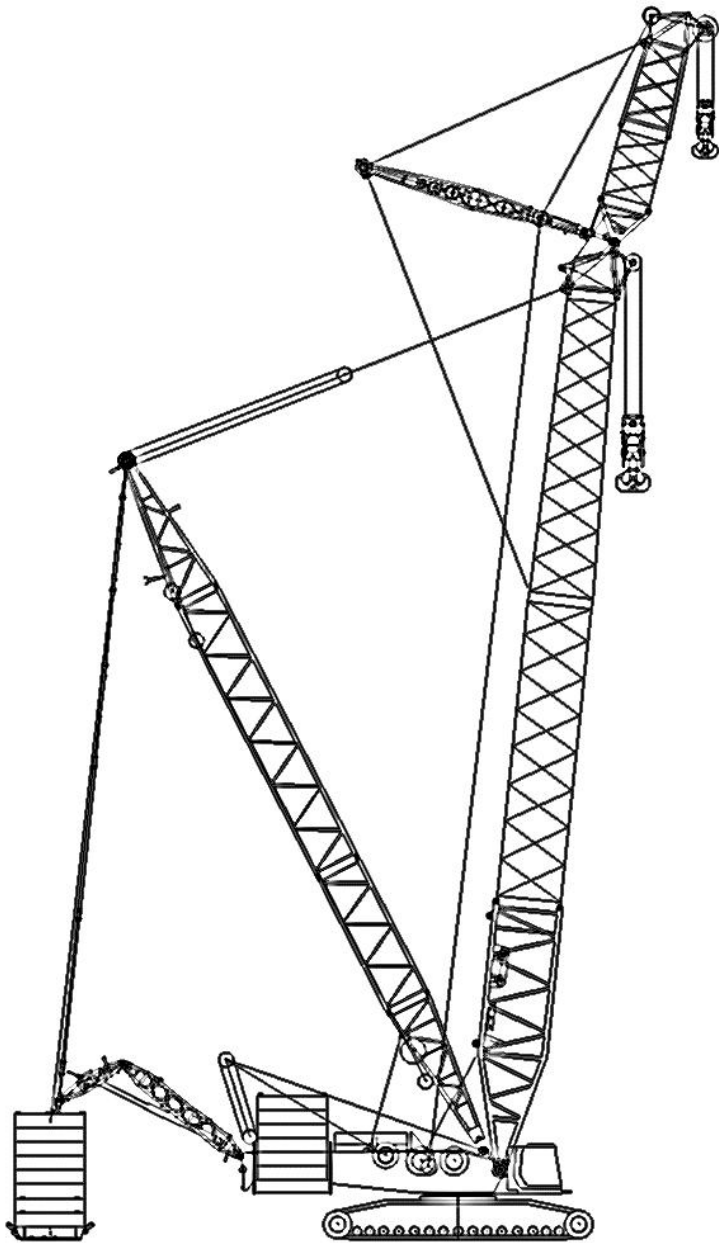
Operation mode and lifting performance-SHW

	110t 40t 230t, 16m 360° 85° 13m						Main boom length 84m, tower jib length 24~84m					
	24	30	36	42	48	54	60	66	72	78	84	
18	102											
20	99.6	88.6										
22	96.6	86.6	77.1	68.2								
24	93.5	84.5	75.7	67.4	59.7							
26	87.6	81.3	74.1	66.5	59.1	52.4						
28	81.8	76.5	71.2	65.4	58.4	52	46					
30	76.4	71.7	67.2	62.7	57.7	51.5	45.7	40.9	36.2			
32		67.1	63.3	59.5	55.4	50.9	45.4	40.7	36.1	31.9		
34		62.8	59.6	56.3	52.8	49.1	45	40.4	35.9	31.8	28.3	
36		58.7	55.9	53.2	50.2	47	43.5	40.1	35.7	31.6	28.2	
38			52.5	50.2	47.6	44.9	41.8	38.8	35.5	31.5	28.1	
40			49.2	47.3	45.1	42.7	40.1	37.4	34.6	31.3	27.9	
42				44.5	42.7	40.7	38.3	36	33.4	30.7	27.8	
44				41.9	40.4	38.6	36.6	34.6	32.2	29.8	27.4	
46				39.4	38.1	36.7	34.9	33.1	31	28.8	26.6	
48					36	34.8	33.3	31.7	29.9	27.8	25.8	
50					34	33	31.7	30.3	28.7	26.9	25	
52						31.2	30.1	28.9	27.5	25.9	24.2	
54						29.6	28.6	27.6	26.3	24.9	23.3	
56						28	27.2	26.3	25.2	23.9	22.5	
58							25.9	25.1	24.1	23	21.7	
60							24.6	23.9	23.1	22	20.9	
62							23.3	22.8	22	21.1	20.1	
64								21.7	21	20.2	19.3	
66								20.7	20.1	19.4	18.5	
68									19.2	18.6	17.8	
70									18.3	17.8	17.1	
74										16.3	15.7	
78											14.5	
82											13.3	

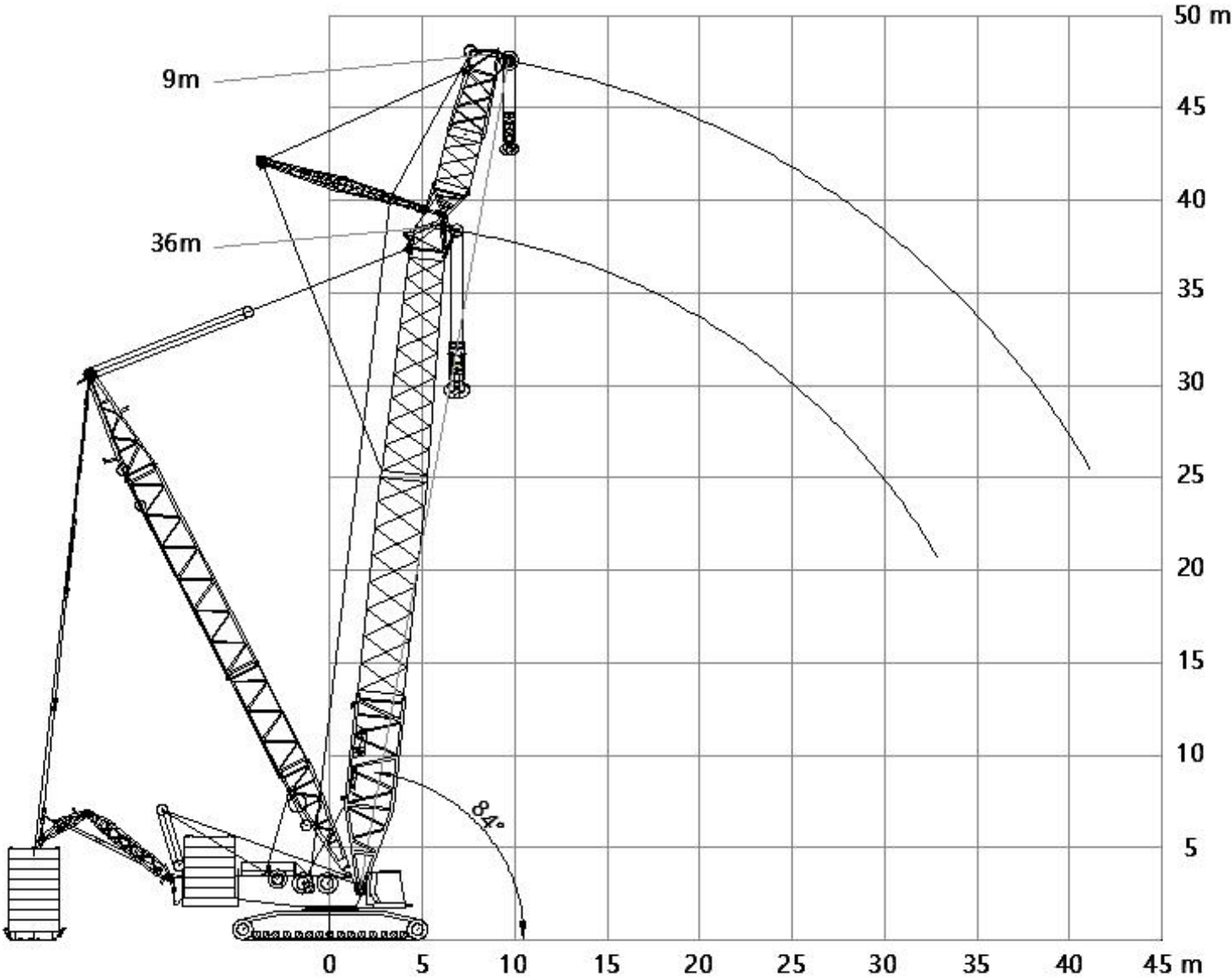
Operation mode and lifting performance-SHFS

Jib combination			
Jib length	Length of insert section		
	Tower jib butt 1.5m	3m insert section A	Tower jib top 4.5m
9	1	1	1

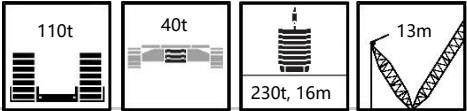
Note: Main boom combinations in this operation mode are the same as that in HB operation mode.



SHFS



Operation mode and lifting performance-SHFS

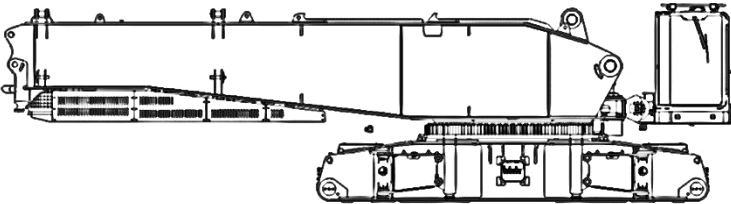
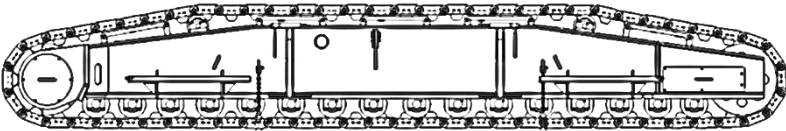
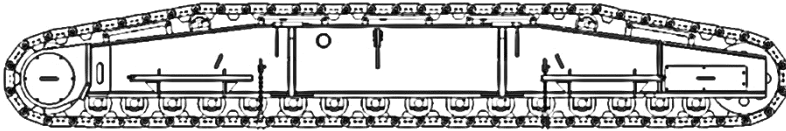
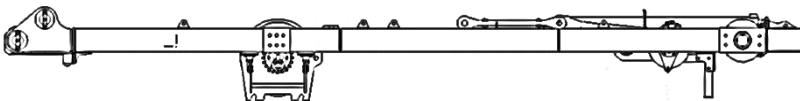
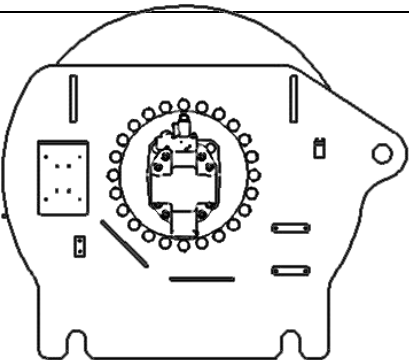


Main boom length: 36m, fixed jib: 9m

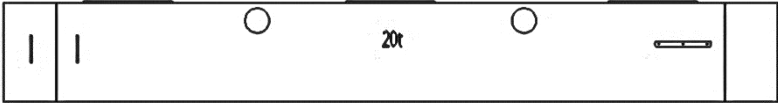
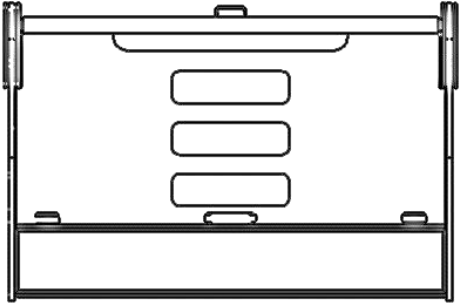
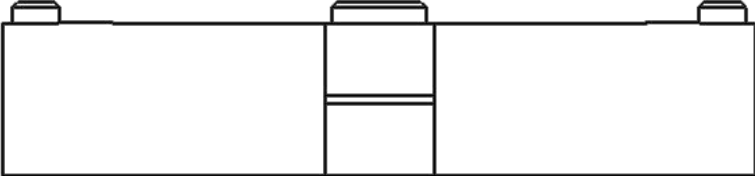
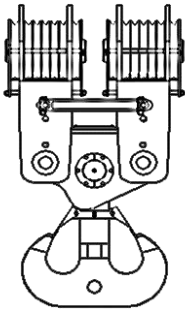
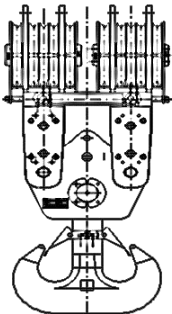
82.16	8	400*	11.1	200*	370*
80.54	9	400*	12.4	200*	362*
78.91	10	400*	13.6	200*	354*
77.27	11	400*	14.9	200*	346*
75.62	12	400	16.1	200*	340
73.95	13	395	17.4	200*	333
72.27	14	380	18.6	199*	321
70.56	15	351	19.9	191*	299
68.84	16	327	21.1	183*	279
67.09	17	306	22.4	177*	262
65.32	18	287	23.6	170*	246
63.52	19	270	24.9	164*	233
61.69	20	255	26.1	159*	220
57.92	22	229	28.6	150*	196
53.97	24	207	31.0	141*	175
49.79	26	187	33.5	134*	158
45.31	28	168	36.0	127*	142

Note: The area mark "*" next to the lifting capacity in the table indicates a risk of backward tipping when the hook is empty in these operation modes. Refer to the instructions for the minimum load.

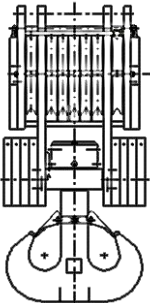
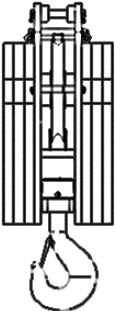
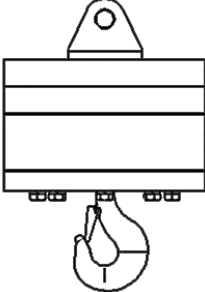
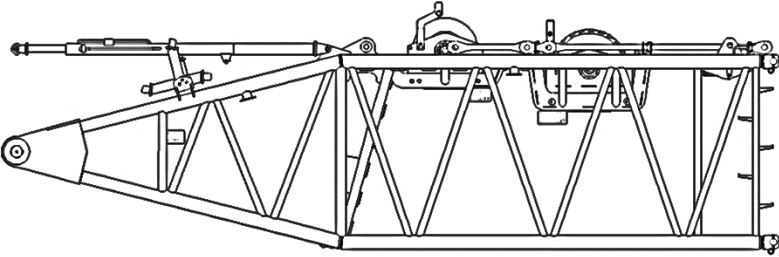
Dimensions of transported parts

	Basic crane	×1
	Length	12300 mm
	Width	3000 mm
	Height	3320 mm
	Weight	45000 kg
	Including turntable, car-body (including four outrigger pads), cab, etc.	
	Left crawler frame	×1
	Length	10110 mm
	Width	1550 mm
	Height	1550 mm
	Weight	27200 kg
	Right crawler frame	×1
	Length	10110 mm
	Width	1550 mm
	Height	1550 mm
	Weight	27200 kg
	Mast assembly	×1
	Length	11780 mm
	Width	2190 mm
	Height	1150 mm
	Weight	10700 kg
	The mast, main luffing pulley block, main luffing system and wire ropes, and boom pendant are included.	
	Hoisting system	×2
	Length	1890 mm
	Width	1320 mm
	Height	1150 mm
	Weight	5540 kg
	Including wire rope.	

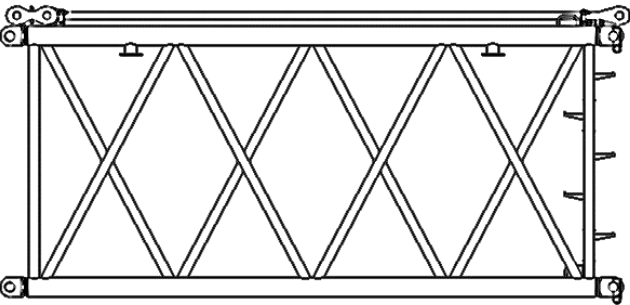
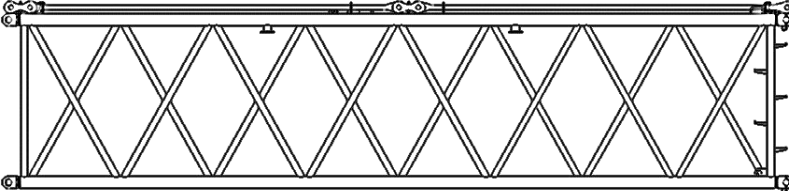
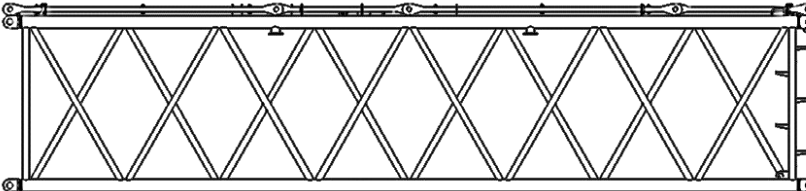
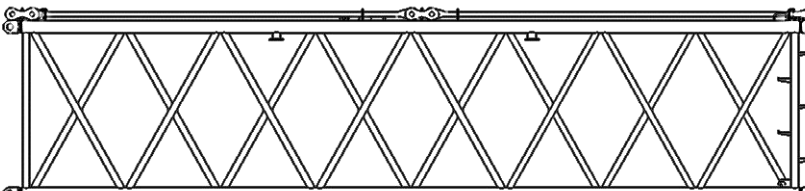
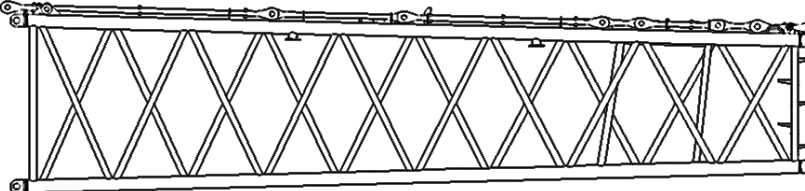
Dimensions of transported parts

	Central counterweight	×2
	Length	5800 mm
	Width	1790 mm
	Height	720 mm
	Weight	20000 kg
	Turntable counterweight frame	×2
	Length	3100 mm
	Width	2620 mm
	Height	2030 mm
	Weight	15000 kg
Including counterweight locking chain assembly.		
	Counterweight	×12
	Length	2750 mm
	Width	2000 mm
	Height	630 mm
	Weight	10000 kg
	400t hook	×1
	Length	1680 mm
	Width	950 mm
	Height	3100 mm
	Weight	6650 kg
Optional.		
	320t hook	×1
	Length	1310 mm
	Width	1220 mm
	Height	2970 mm
	Weight	6000 kg

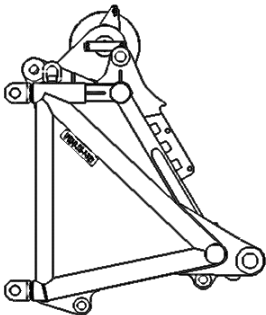
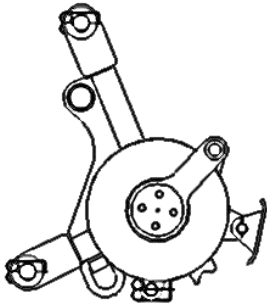
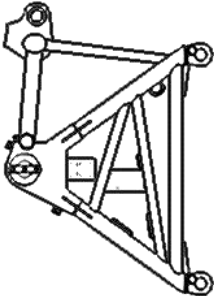
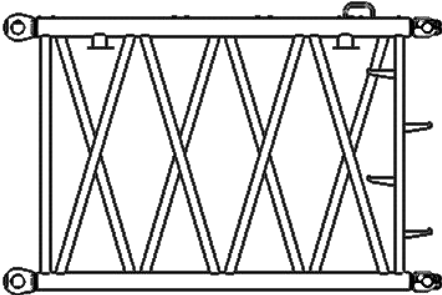
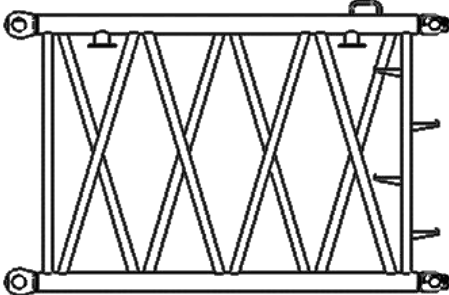
Dimensions of transported parts

	200t hook	× 1
	Length	950 mm
	Width	990 mm
	Height	2250 mm
	Weight	4200 kg
	50t hook	× 1
	Length	640 mm
	Width	760 mm
	Height	1840 mm
	Weight	2430 kg
	16t hook	× 1
	Length	600 mm
	Width	600 mm
	Height	870 mm
	Weight	880 kg
	Catwalk	× 1
	Length	
	Width	—
	Height	—
	Weight	430 kg
	Dismantling for transportation.	
	Main boom butt	× 1
	Length	10800 mm
	Width	3000 mm
	Height	3200 mm
	Weight	16260 kg
	Including main boom backstop cylinder, tower jib luffing winch and steel wire rope, boom pendant and etc.	

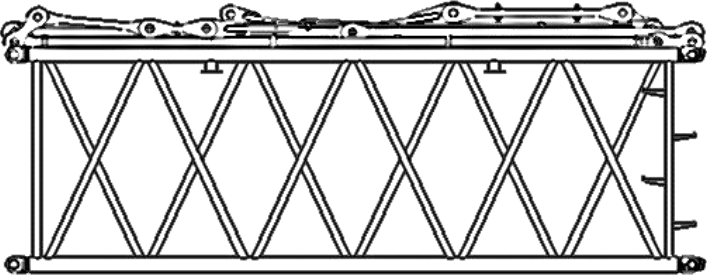
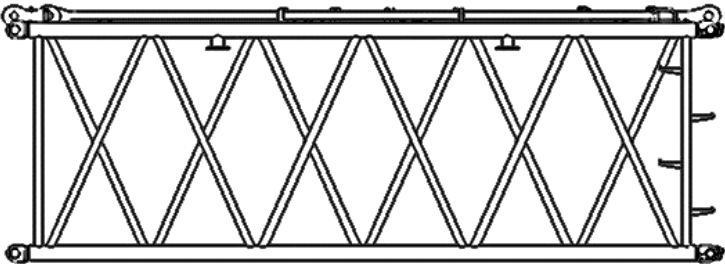
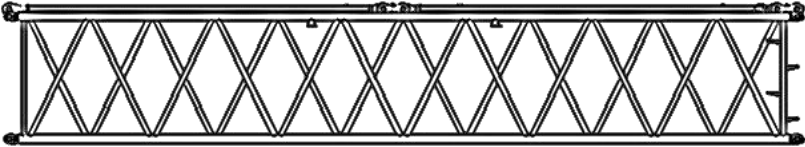
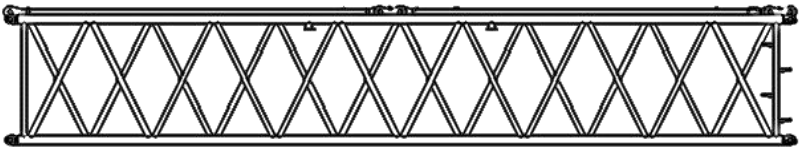
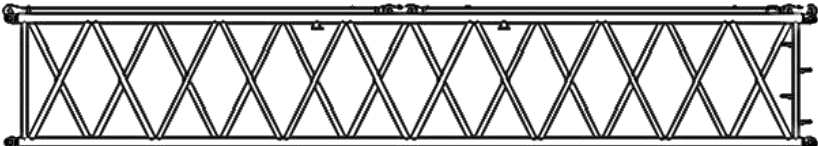
Dimensions of transported parts

	6m heavy-duty main boom insert section ×1	
	Length	6 260 mm
	Width	3 000 mm
	Height	2 880 mm
	Weight	2 740 kg
	Including pendants.	
	12m heavy-duty main boom insert section I ×1	
	Length	12 190 mm
	Width	3 000 mm
	Height	2 880 mm
	Weight	4 890 kg
	Including pendants.	
	12m heavy-duty main boom insert section II ×1	
	Length	12 190 mm
	Width	3 000 mm
	Height	2 880 mm
	Weight	4 890 kg
	Including pendants.	
	12m light-duty main boom insert section ×2	
	Length	12 190 mm
	Width	3 000 mm
	Height	2 880 mm
	Weight	4 380 kg
	Including pendants.	
	12m main boom transition section ×1	
	Length	12 350 mm
	Width	3 000 mm
	Height	2 890 mm
	Weight	5 550 kg
	Including pendants.	

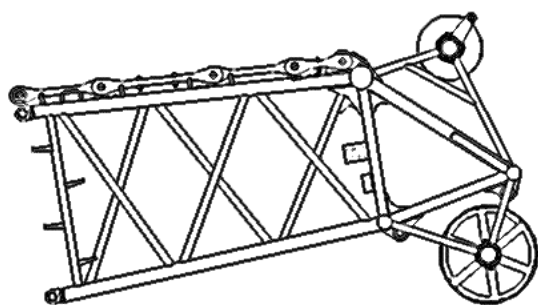
Dimensions of transported parts

	Main boom head	×1
	Length	2470 mm
	Width	2730 mm
	Height	3000 mm
	Weight	3200 kg
	Main boom pulley block	×2
	Length	1190 mm
	Width	980 mm
	Height	1360 mm
	Weight	880 kg
	Tower jib butt	×1
	Length	2930 mm
	Width	2600 mm
	Height	2430 mm
	Weight	1300 kg
	Tower jib 3m section A	×1
	Length	3170 mm
	Width	2530 mm
	Height	2090 mm
	Weight	870 kg
	Tower jib 3m section B	×1
	Length	3170 mm
	Width	2530 mm
	Height	2090 mm
	Weight	840 kg

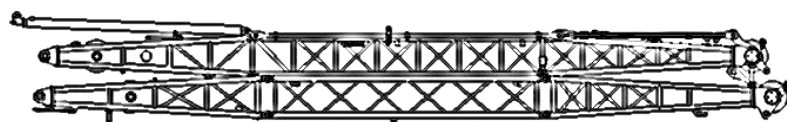
Dimensions of transported parts

	Tower jib 6m section A	×1
	Length	6 140 mm
	Width	2 530 mm
	Height	2 430 mm
	Weight	2 500 kg
	Including pendants.	
	Tower jib 6m section B	×1
	Length	6 140 mm
	Width	2 530 mm
	Height	2 170 mm
	Weight	1 690 kg
	Including pendants.	
	Tower jib 12m section A	×2
	Length	12 190 mm
	Width	2 530 mm
	Height	2 170 mm
	Weight	2 840 kg
	Including pendants.	
	Tower jib 12m section B	×2
	Length	12 190 mm
	Width	2 530 mm
	Height	2 170 mm
	Weight	2 680 kg
	Including pendants.	
	Tower jib 12m section C	×1
	Length	12 190 mm
	Width	2 530 mm
	Height	2 170 mm
	Weight	2 680 kg
	Including pendants.	

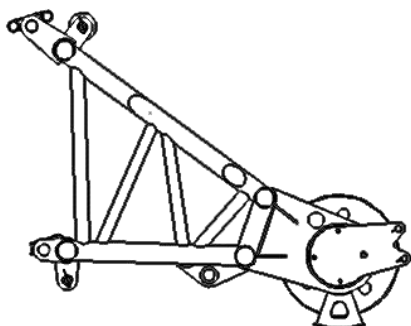
Dimensions of transported parts



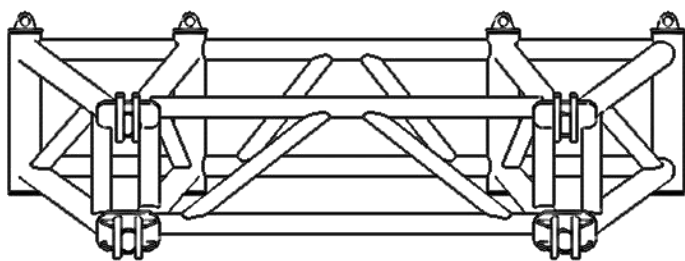
Tower jib top section	×1
Length	5 430 mm
Width	2 530 mm
Height	2 970 mm
Weight	2 410 kg
Including pendants.	



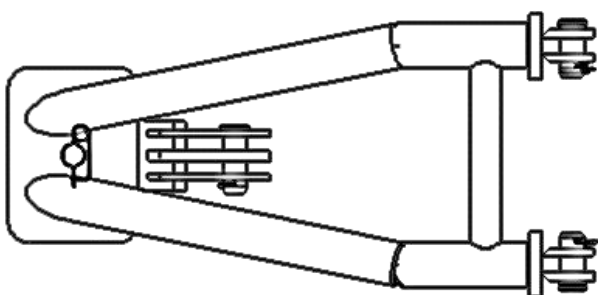
Tower jib front and rear brackets	×1
Length	15 350 mm
Width	2 630 mm
Height	2 040 mm
Weight	6 580 kg



Single pulley	×1
Length	2 000 mm
Width	700 mm
Height	1 590 mm
Weight	500 kg
Optional.	

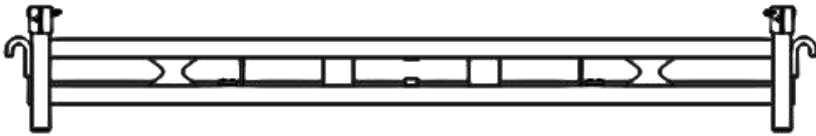
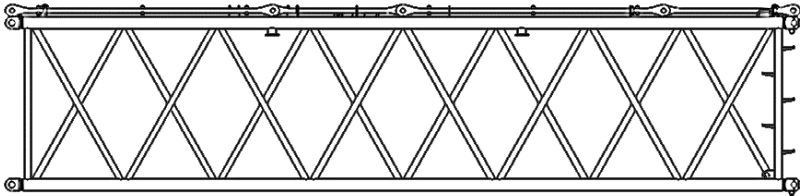
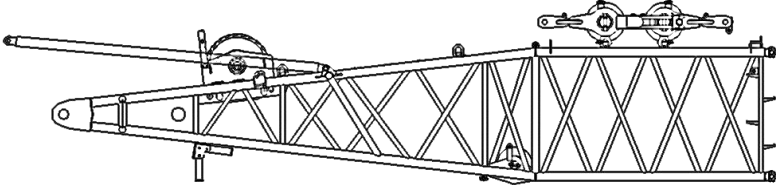
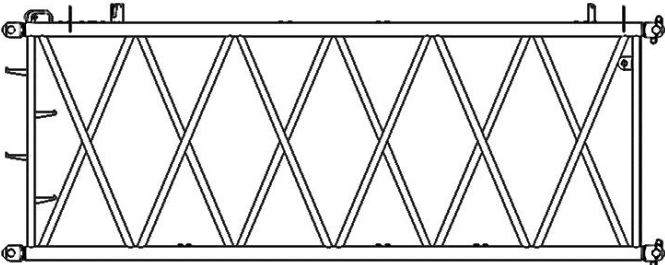
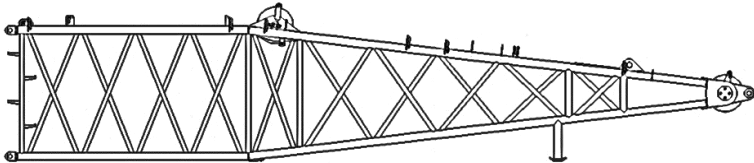


Main body of additional counterweight bracket	×1
Length	4 090 mm
Width	2 450 mm
Height	1 470 mm
Weight	1 910 kg
Optional.	

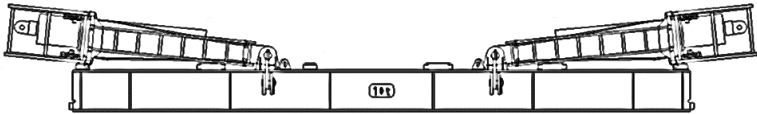
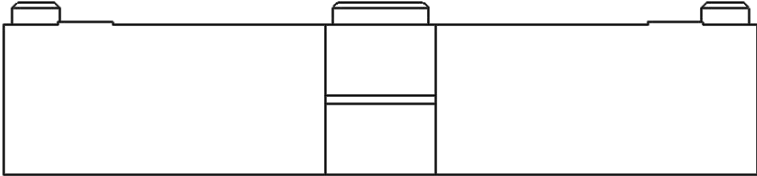
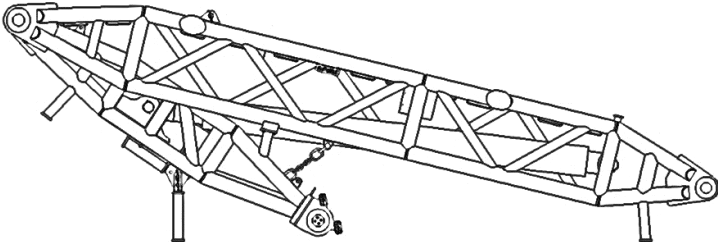
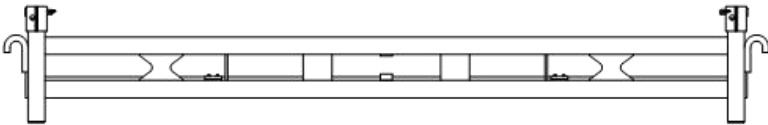


Additional bracket for additional counterweight	×2
Length	1 350 mm
Width	1 150 mm
Height	650 mm
Weight	210 kg
Optional.	

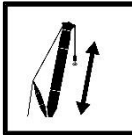
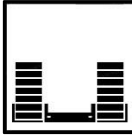
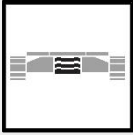
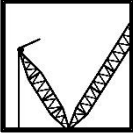
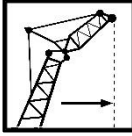
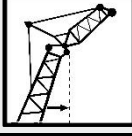
Dimensions of transported parts

	Pendant transportation	×1
	Length	3180 mm
	Width	1750 mm
	Height	480 mm
	Weight	600 kg
	12m heavy-duty main boom insert section II	×1
	Length	12190 mm
	Width	3000 mm
	Height	2880 mm
	Weight	4890 kg
Including pendants.		
	Superlift mast butt section	×1
	Length	12270 mm
	Width	3000 mm
	Height	3070 mm
	Weight	12910 kg
Including superlift luffing winch and wire rope, superlift luffing pulley block, superlift backstop cylinder, etc.		
	Superlift mast 6m section	×1
	Length	6160 mm
	Width	3000 mm
	Height	2410 mm
	Weight	1600 kg
	Superlift mast top section	×1
	Length	12580 mm
	Width	3000 mm
	Height	2610 mm
	Weight	5760 kg

Dimensions of transported parts

	Superlift counterweight tray	×1
	Length	9290 mm
	Width	2970 mm
	Height	1290 mm
	Weight	10000 kg
	Including superlift cylinder	
	Counterweight slab	×18
	Length	2750 mm
	Width	2000 mm
	Height	630 mm
	Weight	10000 kg
	Superlift counterweight pushing device	×1
	Length	5960 mm
	Width	2700 mm
	Height	1970 mm
	Weight	3370 kg
	Including pushing cylinder.	
	Pendant transportation	×2
	Length	3180 mm
	Width	1750 mm
	Height	480 mm
	Weight	500 kg

Symbols

	Rated lifting capacity		Max. main boom length
	Max. main boom and jib combination length		360° slewing
	Working radius		Turntable counterweight
	Undercarriage counterweight		Mass and radius of superlift counterweight
	Superlift mast		Reference radius of auxiliary hook
	Rated lifting capacity of auxiliary hook		Rated lifting capacity of main hook
	Rated lifting capacity of two hook operation		Main boom angle in tower jib operation mode
	Main boom angle in superlift tower jib operation mode		Reference radius of main hook

Points for attention

1. Do not rely on this document to operate the crane! For detailed and correct operating instructions of the crane, please refer to the "*Operation Manual*" and "*Rated Lifting Capacity Manual*".
2. The lifting capacity listed in the lifting performance table is "t". It is the maximum total lifting capacity that the crane can guarantee on a stable and horizontal surface under the current boom length and radius, including the mass of the hook, sling, and wire rope. The actual mass of the load is value after the mass of the above items is subtracted.
3. The working radius in the lifting performance table is the horizontal distance from the gravity center of lifted load to the slewing axis of the crane when the load is lifted off the ground.
4. This product has multiple combination operation modes, and the product images in the document may not be standard configurations. Each functional component can be customized and purchased according to different needs.
5. This document only displays partial lifting performance of the product. For detailed lifting performance, please refer to the "*Operation Manual*" or "*Rated Lifting Capacity Manual*".
6. This printed material does not belong to the contract. We reserve the right to make changes to product models, parameters, and configurations without notice due to the need of continuous product improvement. The pictures are for reference only, and the specific product is subject to the actual product.



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