

Upperworks

Engine

DEUTZ engine with a BF8M1015CP 8-cylinder and water-cooled engine with a rated power/rotational speed of 381kW 2000rpm, and the maximum output torque of 2600N•m and rotational speed of maximum output torque of 1300rpm.

Fuel tank capacity: 610L.

Control System

Imported RC controller and display from BOSCH REXROTH Company and German encoder, load moment indicator and domestic closed circuit monitoring system. CAN Bus is used for the data transmission among controller, display, handles, encoder, engine and load moment indicator, improving the reliability of system.

Hydraulic System

Hydraulic system consists of hoisting hydraulic system, traveling hydraulic system, swing hydraulic system, luffing hydraulic system, servo hydraulic system, anti-tipback hydraulic system, cooling system and auxiliary hydraulic system. Hydraulic components mainly come from BOSCH REXROTH.

Features: Hoisting, traveling and swing adopting closed loop hydraulic system circuit; steady startup, stop and diversion without any impact; rapid operating response, less heat output and long service life.

The open loop hydraulic system's main pump is a displacement capacity pump with constant power, and its main valve is the LUDV system of REXROTH, both of which can meet the requirements of various executing components.

Main and Auxiliary Hoisting Gear

BOSCH REXROTH's variable displacement hydraulic motor controls the hoisting and lowering of main and auxiliary hoisting winches by driving planetary gear speed reducer. Hoisting winch speed is classified into 4 grades with the maximum speed of each grade (except for empty hook grade) set by user within the scope of 0-140m/min (including 140m/min). The hoisting gear features good micro-speed hoisting performance, and its max speed grade can achieve rapid dynamic hoisting. For a hoisting weight of less than 200t, only one hoisting winch is used, but for a hoisting weight of more than 200t, two hoisting winches must be used simultaneously. Main and auxiliary hoisting winches feature synchronization function, and the maximum multiplying factor of 34. Pfeifer steel wire rope and LEBUS winch drums ensure multiple layers without rope tangle, and the speed reducer is built in, featuring low noise, high efficiency, long service life and convenient oil replacement.

Main hoisting device	Main winch diameter	700mm
	Speed of the outermost operating layer	0 ~ 140 m/min
	Wire rope diameter	26mm
	Wire rope length of main winch	800m
	Rated single-line pull	15t
Aux. hoisting device	Aux. winch diameter	700mm
	Speed of the outermost operating layer	0 ~ 140 m/min
	Wire rope diameter	26mm
	Wire rope length of aux. winch	800m
	Rated single-line pull	15t

Swing System

Swing gear: It is driven by dual-motor speed reducer; operators can accurately set the maximum swing speed within the scope of 0-1.5 r/min with the speed increment of 0.015 r/min, stepless speed regulation and steady swing; in addition, it features middle free track-slip function, which can provide 360° swing.

Swing support device: Three-row roller swing bearing.

Luffing Gear

It is composed of main luffing gear, auxiliary luffing gear and super-lift luffing gear.

Adopting LEBUS winch drum, built-in speed reducer, Pfeifer steel rope and LUDV multiple-way valve control, the luffing gear can achieve load unrelated flow distribution and complete multiple actions. All luffing speeds are classified into two grades with the maximum speed of each grade set by operators, featuring good micro-speed regulating performance.

Main luffing device	winch diameter	560mm
	Speed of the outermost operating layer	(0 ~ 56) ×2 m/min
	Wire rope diameter	26mm
	Wire rope length of boom luffing	580m
	Rated single-line pull	15t

Aux. luffing device	winch diameter	600mm
	Speed of the outermost operating layer	0 ~ 101m/min
	Wire rope diameter	26mm
	Wire rope length of jib luffing	750m
	Rated single-line pull	22.6t
Super-lift luffing device	winch diameter	600mm
	Speed of the outermost operating layer	0 ~ 111m/min
	Wire rope diameter	26mm
	Wire rope length of super-lift luffing	930m
	Rated single-line pull	15t

Counterweight

Central counterweight: 40t: 4×10t, 4 blocks in total.
 Rear counterweight: 155t: 14×10t, 1×15t, 15 blocks in total.
 Super-lift counterweight: 250t, 24×10t, 24 blocks in total, and pallet and accessories 10t.

Driver's Cab

The driver's cab is a full-sealed steel framework structure, of which the front and flank sides are installed with toughened glass, featuring good transparence, high strength, high wear resistance, and low indoor noise (less than 85dB). It is equipped with control device, measuring instrument, fire extinguishing and alarm device and closed circuit monitoring system, all of which are designed according to ergonomics.

The driver's cab can be adjusted according to the operation requirement, which can not only be tilted up for 20°, but can also be rotated to the right ahead of the platform, convenient for transportation.

Control Operation

The load moment indicator display, closed circuit monitor, monitoring display and gauge are in the direct vision of operator; the display of load moment indicator is primarily to monitor the moment and other parameters of crane, while the monitoring display is primarily to display the operating status of crane, control parameters and alarms of various monitoring points; the left and right armrest boxes are equipped with a handle respectively and the handle action can be switched over through the press button of monitoring display; single action and permissible multiple action are displayed in the form of words and graph.

Alarm Display

When error occurs, all alarm information including wind speed, water temperature, oil temperature, oil volume, oil pressure, operating time, engine revolution will be displayed on the screen in the driver's cab.

Lowerworks

Traveling Drive

The traveling system features two-grade speeds; it has a strong tractor force, which can achieve deflected traveling under 70% load status; each traveling speed reducer can be driven independently to flexibly achieve forward, backward or pivot steering.

Traveling Brake

Traveling brake is a constantly-closed brake, which is built in speed reducer (i.e. it is in braking status when the traveling handle is not manipulated). It can be compensated automatically without any adjustment. When the traveling handle is manipulated, the brake will be released and the crane will travel.

Track Shoes

The left and right track traveling gear is composed of 154 track shoes with the width of 1,250mm. The tension of track shoes can be adjusted through hydraulic jack, with the position of adjusting spacer at ideal tension degree.

Chassis

It is a high-strength welded frame structure, which is connected with track frame by hydraulic oil cylinder-driven power pin, easy for assembly and disassembly.

Traveling Speed

Variable displacement motor features two-grade speeds, in which it can achieve variable speed change with the high speed of 0-1.2km/h and low speed of 0-0.4km/h, ensuring the steady operation of equipment and rapid traveling.

The pipelines of all operation devices are of imported high-strength pipe, the steel plates are of high-strength plate, and guy rods are also of imported high-strength steel pipe. Pulley material: all pulleys on the boom bar are of nylon pulley, and the pulleys on the hook block are of nodular cast iron pulley.

Main Boom

Boom frame is a space truss structure with uniform cross section in the middle and variable cross section at both ends. The steel pipes are welded and the top and bottom of the boom frame are reinforced by steel plate so as to transfer the load.

The length of main boom is between basic boom (24m) and maximum length (117m).

Composition: boom base 11.4m, transitional insert 6m, boom tip 0.6m, boom insert 3m×1, and boom insert 6m×2 and boom insert 12m×7

Main Luffing Mast

The overall structure is a door-type corbel with a height of 9m, which is welded by high-strength steel plate, with a beam fitted at the center for reinforcement. This structure features a high strength and good rigidity.

Luffing Jib

Jib frame is a spatial truss structure with uniform cross section in the middle and variable cross section at both ends. The steel pipes are welded and the end and bottom of the boom frame are reinforced by steel plate so as to transfer the load.

Basic jib (21m)(jib tip 10.5m, jib base 10.5m), jib inserts(6m×1, 12m×3) can be installed on the main boom with a length of 30m-84m. Usable jib features a length of 27m-63m.

Jib luffing is achieved by jib luffing mast and fixed mast. The jib luffing is a spatial truss structure with uniform cross section in the middle and variable cross section at both ends. The steel pipes are welded and the end and bottom of the boom frame are reinforced by steel plate so as to transfer the load. The fixed mast features a length of 14m, while the luffing mast 15.5m

Hook Block

Standard parts:
 15t hook block
 35t hook block
 100t hook block
 400t hook block (can be disassembled into 200t hook blocks)

Super-lift Mast

Mast boom frame is a spatial truss structure with uniform cross section at the center and variable cross section at both ends. The steel pipes are welded and the top and bottom of the boom frame are reinforced by steel plate so as to transfer the load.

The Length of super-lift mast is 24m and 30m respectively.

Composition: Boom tip (12m), boom base (12m) and boom insert (6m×1).

Operating Condition

H: Heavy duty main boom
 HD: Heavy duty main boom+super-lift mast
 HDB: Heavy duty main boom+super-lift mast+super-lift counterweight
 LJ: Luffing jib
 LJD: Luffing jib+super-lift mast
 LJDB : Luffing jib+over-hoisting mast+ super-lift counterweight
 HJ : Mixed main boom
 HJD : Mixed main boom +super-lift mast
 HJDB : mixed main boom+ super-lift mast+ super-lift counterweight

Note: the above operation equipments are of full configuration. The specific configuration please refer to the purchase contract.

Safety Device

Load Moment Indicator

As an imported load moment indicator with main components imported from Germany, the load moment indicator and other controllers constitute network by means of CAN bus, achieving safe and reliable control. Load moment indicator can not only automatically measure the hoisted weight of crane and the angle of boom, but can also display the rated loading capacity and actual load, operating radius and hook height. In addition, when there is super-lift device, it can display the pulling force of various coupling bars and the utilization ratio of super-lift counterweight. Composition: large-sized color display, host machine, angle sensor and pulling force sensor.

Anti-overwinding Devices of Main and Auxiliary Hook Blocks

Limit switch is used to prevent the hook block from being over-hoisted; when the hoisting hook is hoisted to certain height, the limit switch shall play its role, the buzzer on the control console shall give an alarm and the hoisting action of hook shall stop automatically but only used for lowering operating, so that the over-winding of hoisting hook shall be avoided.

Over-fall Device of Main and Auxiliary Lifting Hooks

Consist of movement trigger device and proximity switch installed in the drum. When the wire rope is loosened to near the last three rings, signal is given and the electrical control system will automatically cut off lowering of the hook and give alarm via the buzzer and the display.

Switch of Assembly Mode/Operation Mode

In assembly mode, the overwind device, limit device of boom, moment limiter and etc. does not work in order to facilitate assembling of the crane.

In operation mode, all the safety devices are working.

Caging Device of Boom/Jib

When the elevation angle of main boom is over 87° and the elevation angle of jib is more than 80°, the corresponding limit switches shall be activated to facilitate the buzzer to give an alarm, and the jib boom shall be automatically stopped.

At this time, the hoisting operation of luffing drum is inactivated, but the lowering operation of the luffing drum can be achieved. When the angle of main boom is less than 30° and the angle of jib is less than 25°, operation control shall be automatically limited by load moment indicator.

Anti-tipback Device of Boom/Jib

Main boom and super-lift mast are equipped with a pair of anti-tipback oil cylinders respectively. When the boom frame tips back, the high pressure of anti-tipback oil cylinder shall be overcome; when the boom frame protrudes forward, the hydraulic system shall automatically refill high-pressure oil and fasten the boom frame coupling bar to prevent the boom frame from vibrating and tipping back during operation.

Jib fixing mast is equipped with a mechanical anti-tipback device, while jib luffing mast is equipped with a pair of oil cylinders to prevent the mast from tipping back and tighten the jib luffing steel rope.

When the angle of jib reaches to 80°, mechanical anti-tipback device shall be activated to prevent the jib from tipping back.

Hoisting Winch Brake

Each hoisting winch brakes are of spring-loaded and constantly-closed disc-type brake, featuring strong braking force, maintenance-free, safe and reliable use and long service life.

Closed Circuit Monitoring System

It is used to monitor the winding of steel ropes of various hoisting winches, super-lift counterweight status and surrounding equipments.

Automatic Troubleshooting System

It can easily clear the failure according to false code.

Black Box

It can keep record of the operating of driver and the operational parameters of equipments so as to analyze accident.

Pharos

It is installed on the top of the boom frame.

Anemoscope

Installed on the top of the boom frame, it is used to carry out real-time monitoring on wind velocity and transfer data to the driver's cab for display on the monitor.

Electronic Gradiometer

Displayed on the monitor, it is used to show the inclination angle of crane in real time in order to ensure the safe operation of crane.

Safety Device

Lightning Protection Device

Include grounding device for lightning and surge protection device, which can effectively avoid damage to the electric system elements and injury to the personnel during lightning stroke.

Hook Clamp

Each hook block is equipped with clamp plate to prevent steel rope from falling off.

Swinging and Traveling Alarm

Alarm is given by the loudspeaker during swinging and traveling to warn relevant persons to leave the operation site.

Engine Power Limit Load Regulation and Stalling Protection

Controllers are used to monitor the engine power in order to prevent against engine shutdown or stalling.

Engine Monitoring Instrument

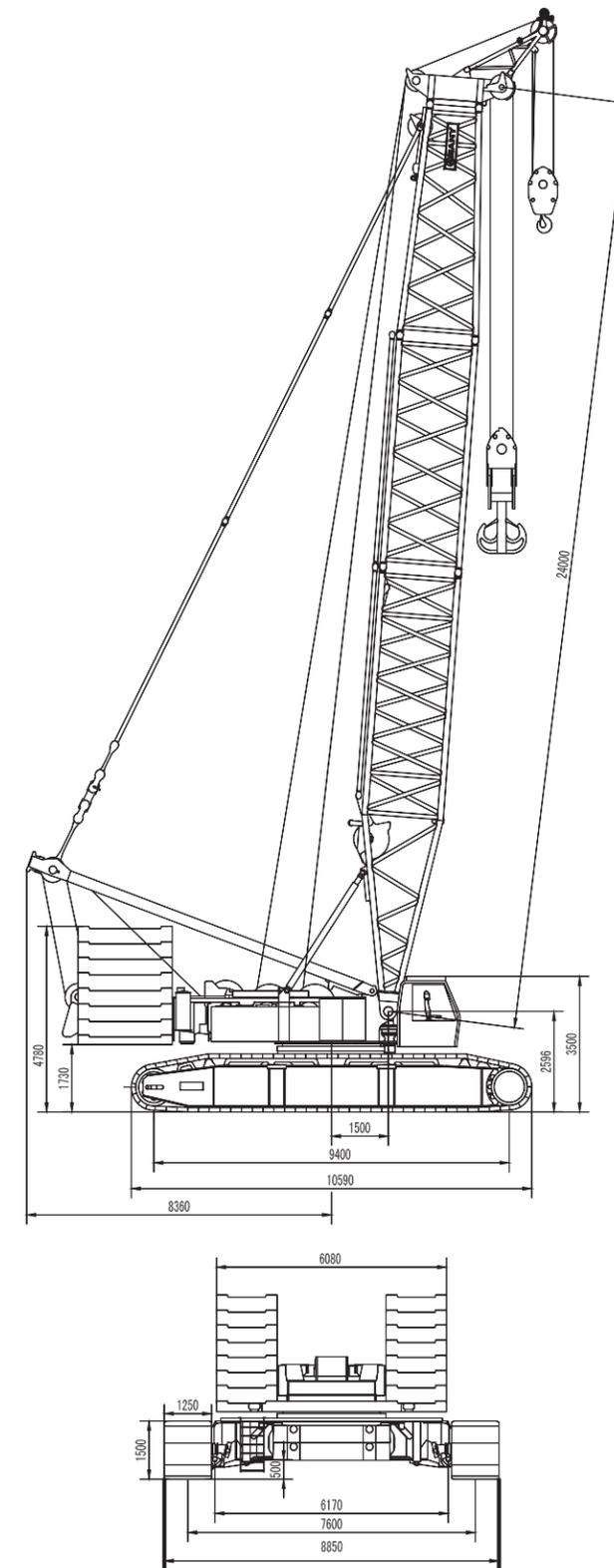
It is used to display water temperature, fuel capacity, accumulated operating time, oil pressure, engine rotation speed, battery charging status and voltage.

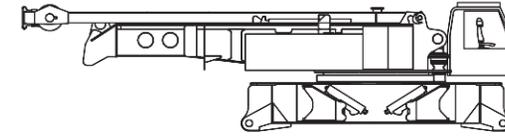
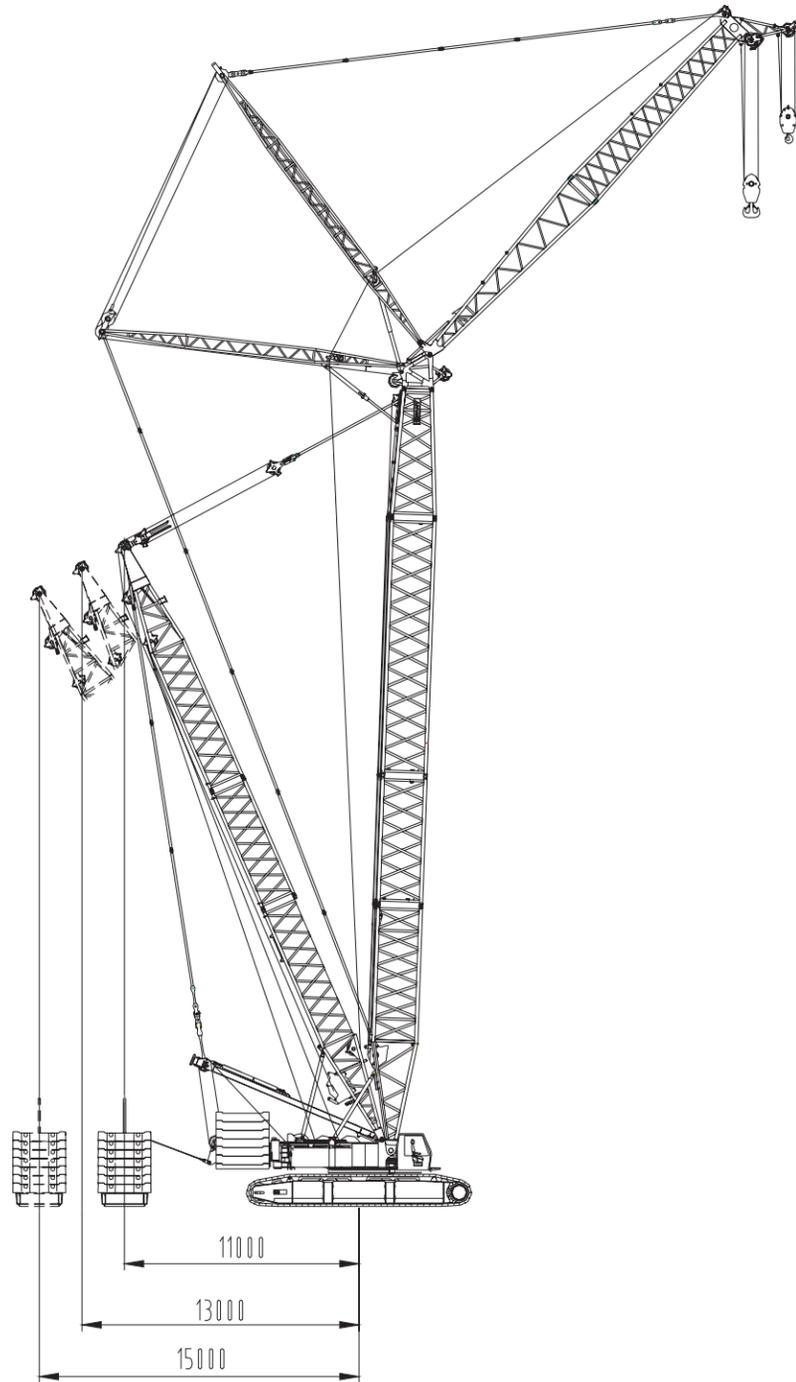
Optional remote supervision system

The system can realize GPS positioning, GPRS data transmission, inquiry of equipment operation state, statistics, remote failure diagnosis and etc.

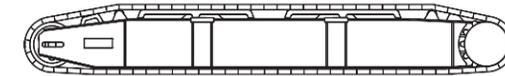
Control Release

Press the control release switch to disable all handles so as to prevent against misoperation resulting from body contact when climbing up/down the crane.

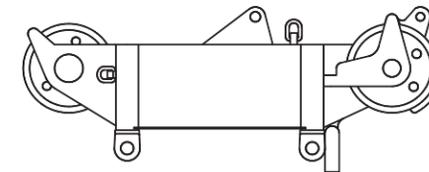




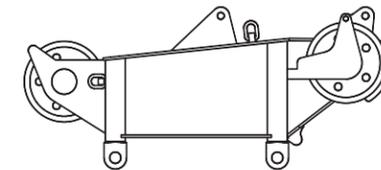
Crane body	×1
Length	12.2m
Width	3.1m
Height	3.3m
Weight	55t



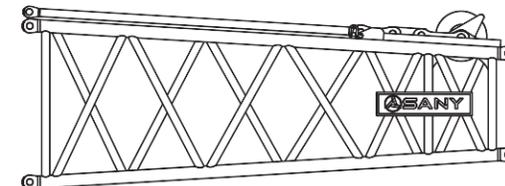
Track assembly	×2
Length	10.6m
Width	2.2m
Height	1.5m
Weight	34t



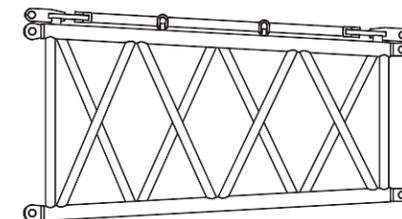
Main boom tip (250t boom heads)	×1
Length	3m
Width	2.3m
Height	1.2m
Weight	2.3t



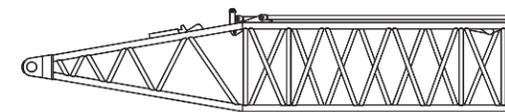
Main boom tip (400t boom head)	×1
Length	3m
Width	2.28m
Height	1.286m
Weight	4t



Transitional insert	×1
Length	6.18m
Width	2.76m
Height	2.34m
Weight	3.7t

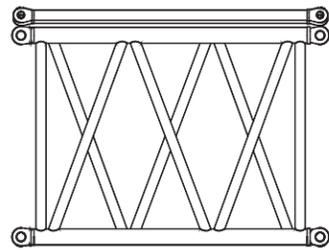


Transitional insert of mixed boom	×1
Length	4.26m
Width	2.76m
Height	2.34m
Weight	2.4t

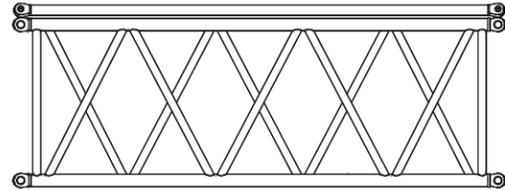


Main boom base	×1
Length	11.72m
Width	2.76m
Height	2.36m
Weight	13t

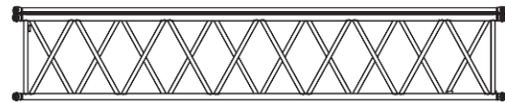
Transportation dimension of major parts



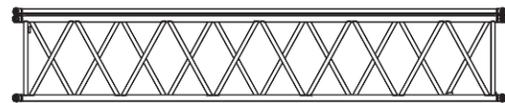
Boom insert 3m	×1
Length	3.18m
Width	2.76m
Height	2.36m
Weight	2t



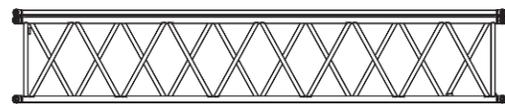
Boom insert 6m	×2
Length	6.18m
Width	2.76m
Height	2.36m
Weight	3.4t



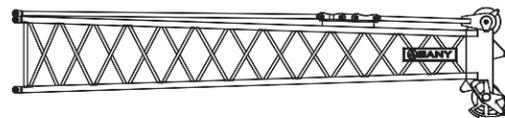
Boom insert 12mA	×5
Length	12.18m
Width	2.76m
Height	2.36m
Weight	6.1t



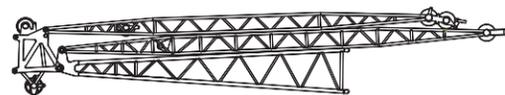
Boom insert 12mB	×1
Length	12.18m
Width	2.76m
Height	2.36m
Weight	6.1t



Boom insert 12mC	×1
Length	12.18m
Width	2.76m
Height	2.36m
Weight	6.1t

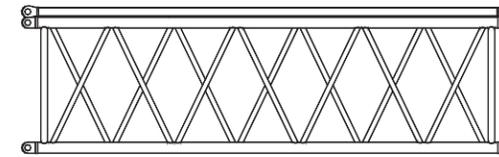


Jib tip	×1
Length	11m
Width	2.24m
Height	1.88m
Weight	4t

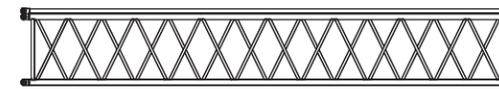


Jib base, jib luffing mast, jib fixed mast and connection insert assembly	×1
Length	18m
Width	2.3m
Height	3.3m
Weight	15.5t

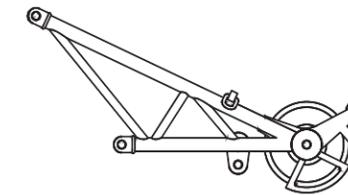
Transportation dimension of major parts



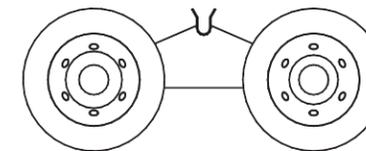
Jib insert 6m	×1
Length	6.15m
Width	2.24m
Height	1.88m
Weight	1.8t



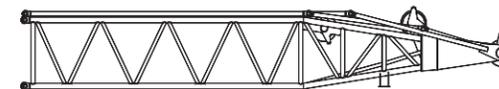
Jib insert 12m	×5
Length	12.15m
Width	2.24m
Height	1.88m
Weight	3.2t



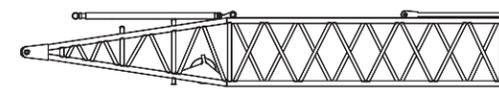
Boom extension	×1
Length	2.68m
Width	1.18m
Height	1.38m
Weight	0.5t



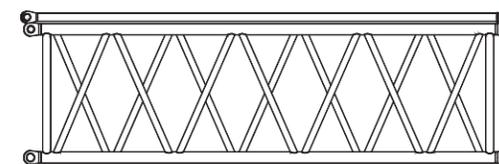
Bogie	×1
Length	2.56m
Width	1.74m
Height	1.004m
Weight	1t



Boom tip of super-lift mast	×1
Length	12.41m
Width	2.48m
Height	1.91m
Weight	5.9t



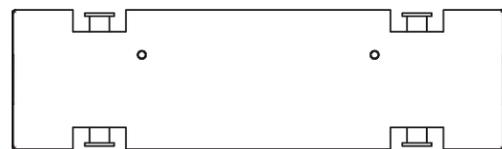
Boom base of super-lift mast	×1
Length	12.23m
Width	2.62m
Height	2.15m
Weight	15t



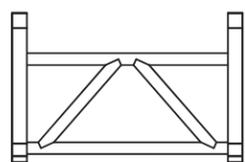
Boom insert of super-lift mast 6m	×1
Length	6.18m
Width	2.53m
Height	1.91m
Weight	2t

Transportation dimension of major parts

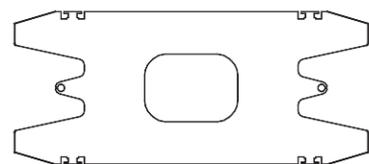
Transportation dimension of major parts



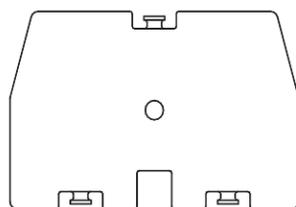
Central counterweight block	×4
Length	3.1m
Width	1.1m
Height	0.51m
Weight	10t



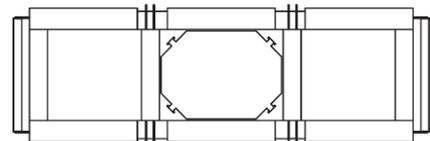
Hook block of central counterweight	×2
Length	1.57m
Width	0.825m
Height	1.005m
Weight	0.4t



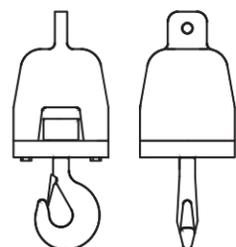
Bracket mount of rear counterweight	×1
Length	6.08m
Width	2.49m
Height	0.51m
Weight	15t



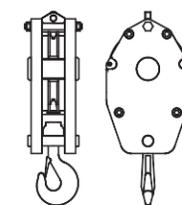
10t counterweight block	×36
Length	2.49m
Width	1.6m
Height	0.455m
Weight	10t



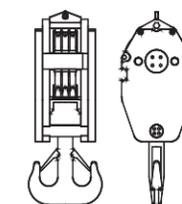
Super-lift counterweight frame	×1
Length	6.4m
Width	2.2m
Height	0.76m
Weight	5.7t



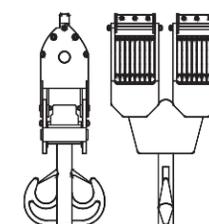
15t hook block	×1
Length	1.143m
Width	0.46m
Height	0.46m
Weight	0.77t



35t hook block	×1
Length	1.77m
Width	0.77m
Height	0.532m
Weight	1.5t

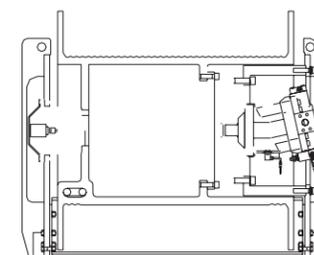


100t hook block	×1
Length	1.77m
Width	0.77m
Height	0.532m
Weight	2.8t



400t hook block	×1
Length	3.34m
Width	1.3m
Height	1.77m
Weight	7t

Note: it can be disassembled into 2 sets of 200t hook blocks.



Hoisting winch	×2
Length	1.6m
Width	1.2m
Height	1.2m
Weight	4.8t

Notes:

The transportation dimensions of the parts is a schematic plan, and is not plotted in proportion. The marked dimensions are of design value and do not include packaging.

The weight is the design value, and may differ slightly due to manufacturing errors.

Winch Performance Parameter

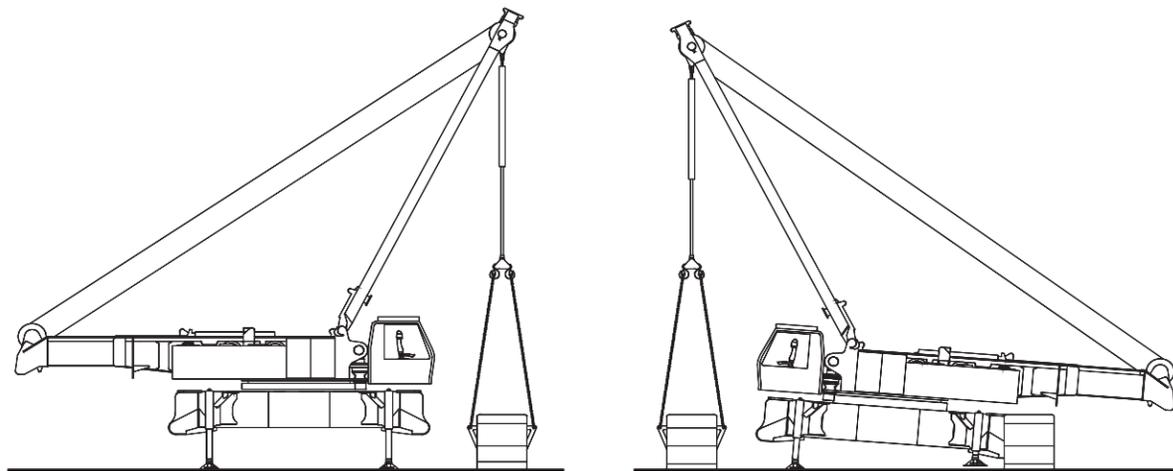
Name	Rated pull of single rope	Maximum rope speed
Main hoisting winch	15t	140 m/min
Auxiliary hoisting winch	15t	140 m/min
Main luffing winch	2×15t	2×56 m/min
Auxiliary luffing winch	15t	101 m/min
Super-lift luffing winch	15t	111 m/min

Steel Rope Performance Parameter

Purpose	Model and Specification	Diameter(mm)	Length(m)
Main hoisting	CASAR EUROLIFT	26	800
Auxiliary hoisting	CASAR EUROLIFT	26	800
Main luffing	CASAR TURBOPLAST	26	580
Auxiliary luffing	CASAR EUROLIFT	26	750
Super-lift luffing	CASAR TURBOPLAST	26	930

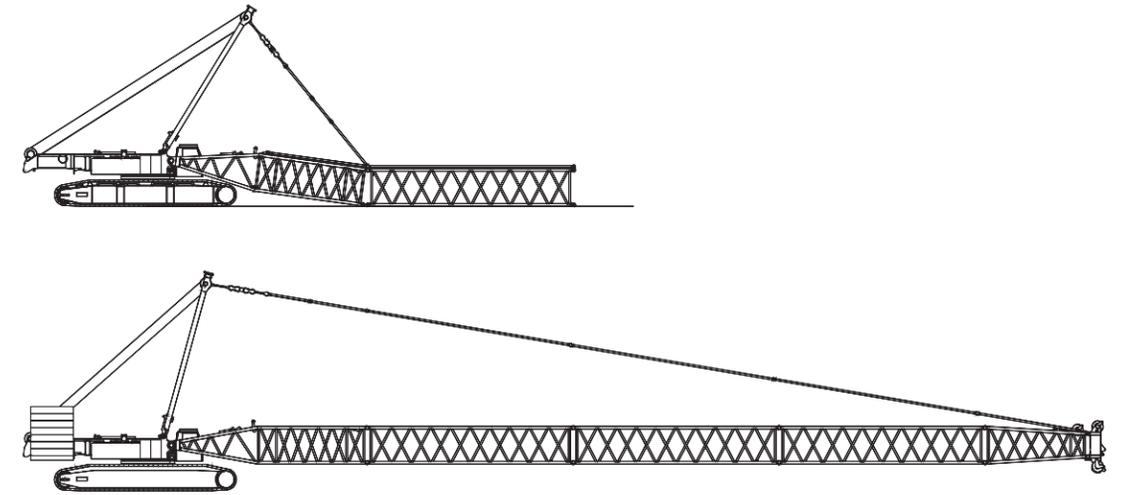
Self-assembly/disassembly

Schematic diagram of the self-assembly track frame:

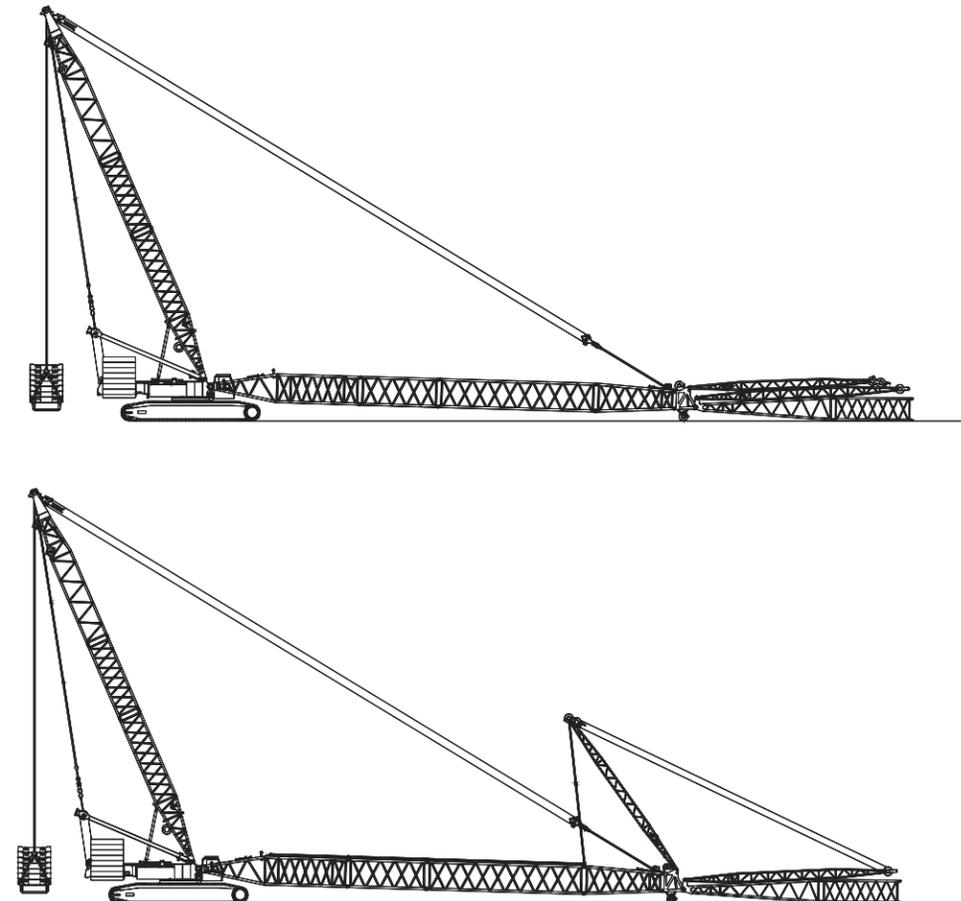


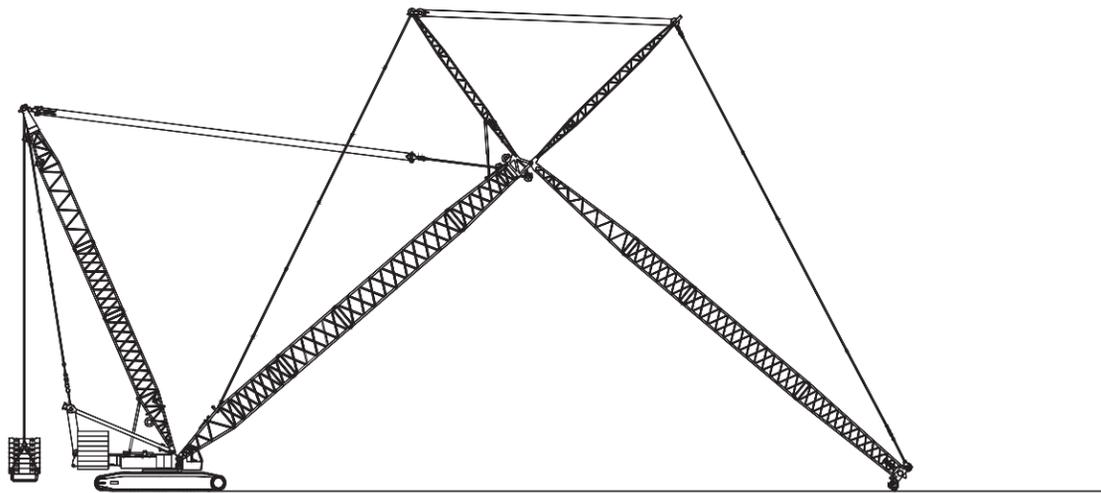
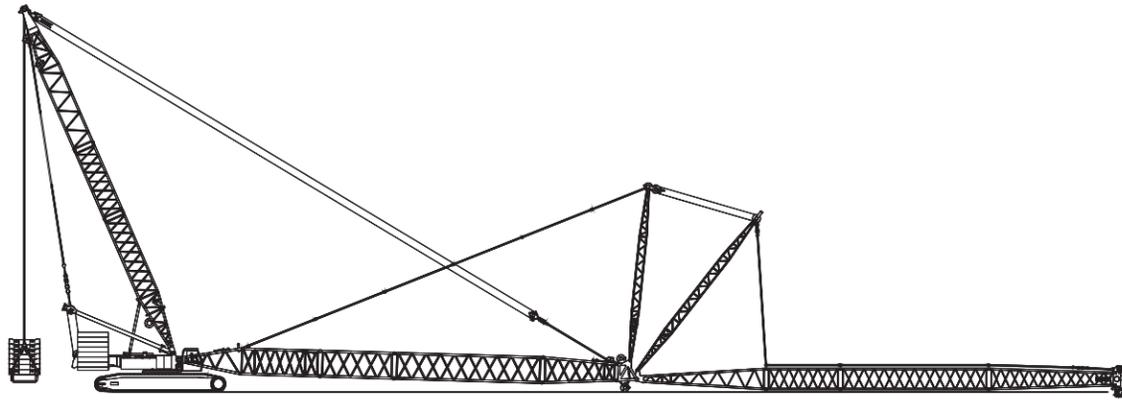
Self-assembly/disassembly

Schematic diagram of main boom installation:

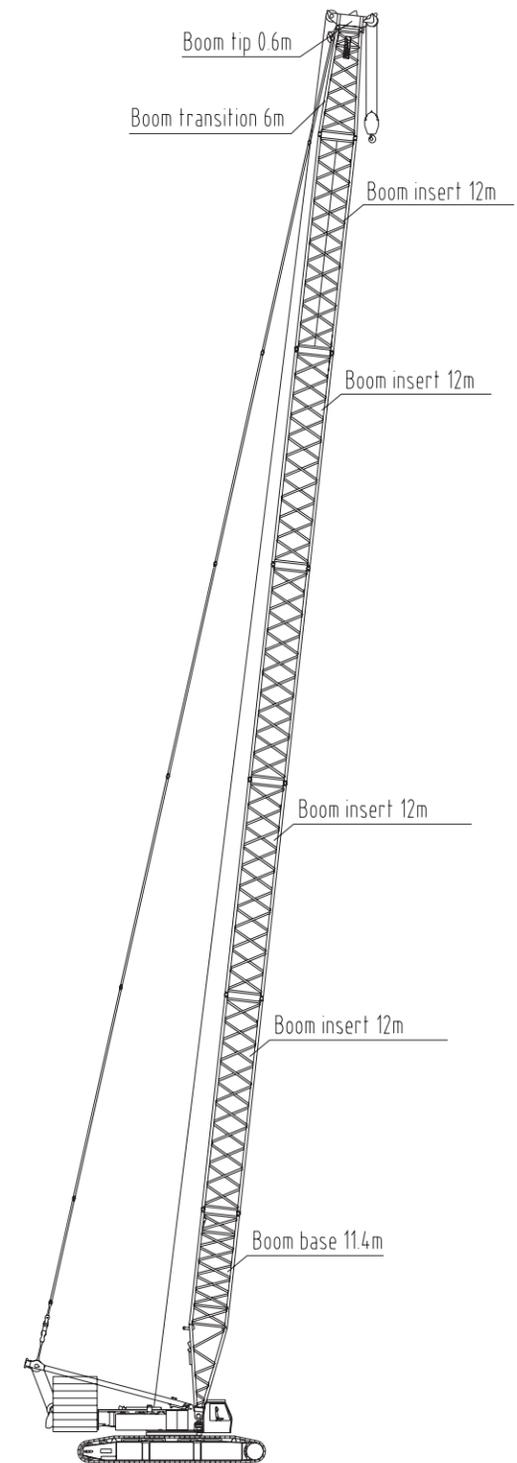


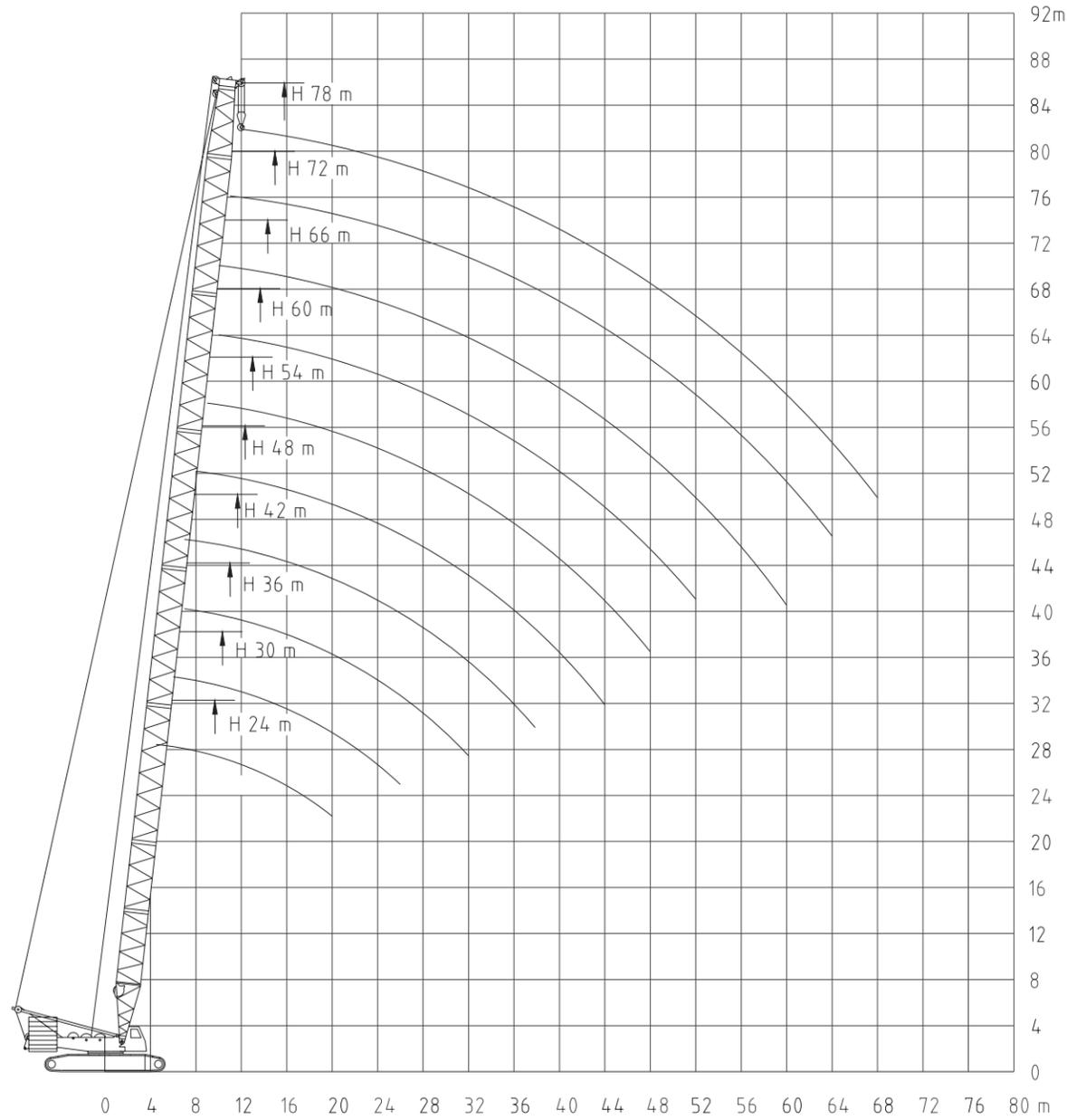
Schematic diagram of luffing jib installation:





Boom length (m)	Boom inserts	
	6 m	12mA
24	1	—
30	—	1
36	1	1
42	—	2
48	1	2
54	—	3
60	1	3
66	—	4
72	1	4
78	—	5





Hoisting height operation scope curve

SCC4000C crawler crane—H state

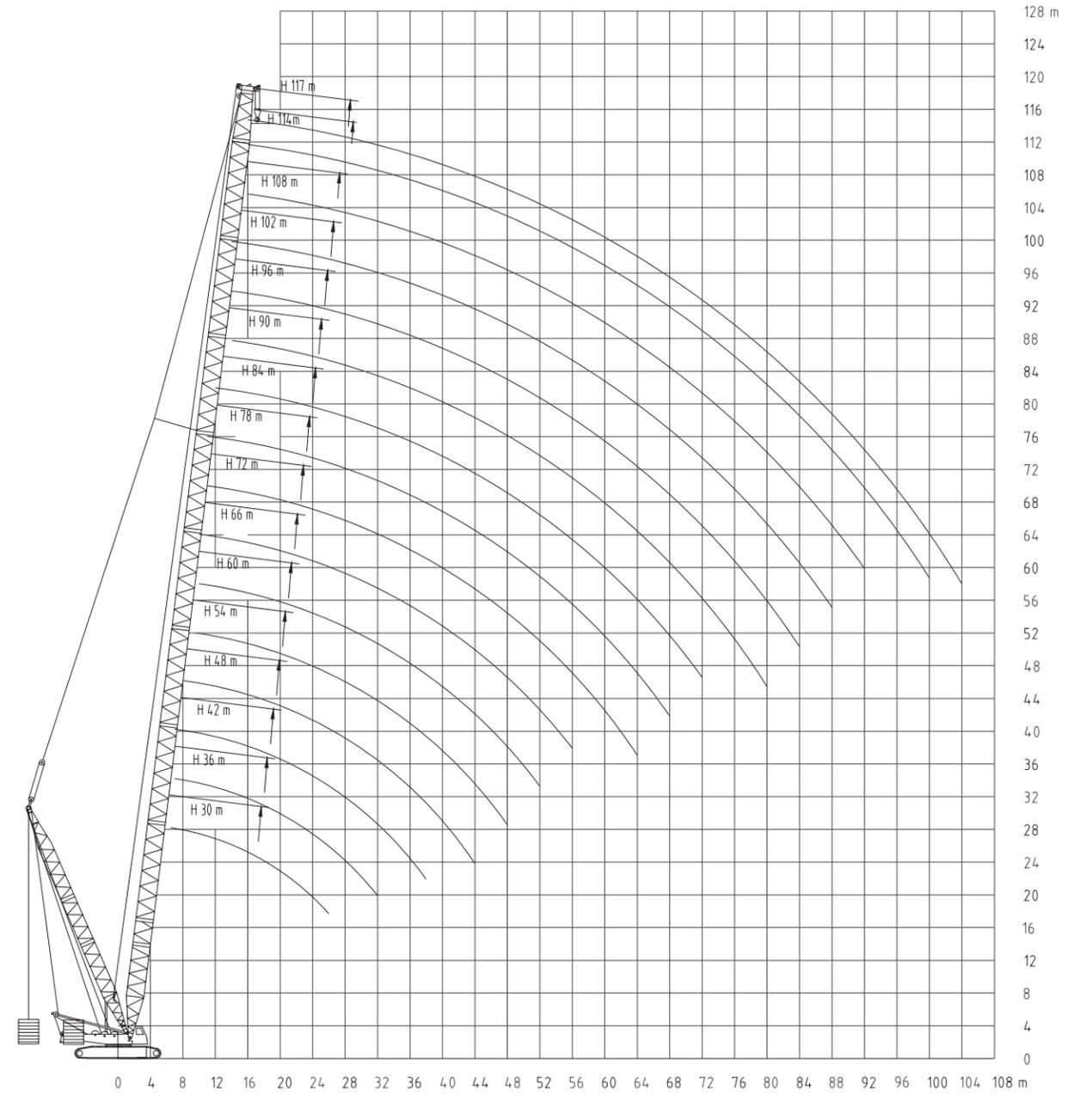
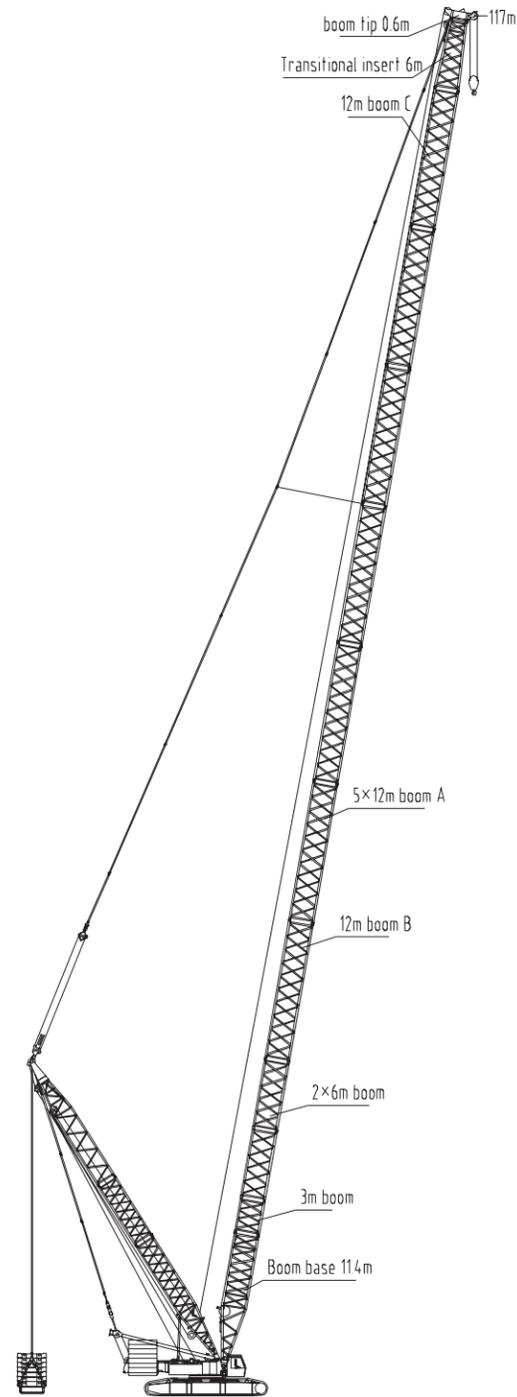
Boom length 24m~78m		counterweight 135/155t						Center pressure CW.40t			
length radius	24	30	36	42	48	54	60	66	72	78	length radius
4.5	400										4.5
5	350										5
5.5	338										5.5
6	312	305									6
6.5	290	283									6.5
7	270	265	269	260							7
8	240	240	236	230	226						8
9	215	215	212	205	202	193					9
10	200	195	192	185	182	174	163	147			10
11	182	177	175	169	165	158	149	140	125		11
12	165	162	159	155	150	144	136	129	122	114	12
14	142	140	136	130	127	122	116	110	104	102	14
16	118	118	116	112	109	105	98	95	90	90	16
18	98	98	97	96	95	92	85	83	78	78	18
20	86	85	84	82	82	81	73	74	69	68	20
22		72	75	72	71	72	64	66	62	61	22
24		64	65	63	63	64	58	59	55	55	24
26		58	59	56	56	57	51	53	50	49.5	26
28			54	51	50	51	46	47.5	45	44	28
30			48	46	45	46	41	43	41	39.5	30
32			43	42	41	41.5	37	38.5	37	35.5	32
34				38	36.5	38	33.5	35	33.5	32	34
36				35	33	34.5	30.5	32	30.5	29	36
38				32	31	32	28	29	27.5	26	38
40					28	29	27	26.5	25	23.5	40
44					25	25	23	22	21	19	44
48						21	20	18.5	17.5	15.8	48
52							17	15.6	14.5	12.8	52
56								13	12	10.5	56
60								11	9.6	8.3	60
64									7.5	6.4	64
68										4.8	68
wind speed (m/s)	14.3				12.8				11.8		wind speed (m/s)

The values in gray area are determined using 155t rear counterweight, the others are determined using 135t rear counterweight.

- Note: 1. Actual hoisting weight shall be the value of rated hoisting weight deducting the weight of hook blocks, hoisting tools and steel ropes winding the hook blocks and boom heads.
 2. The rated hoisting weight in the chart is the weight which is lifted by crane on level and hard ground.

length (m)	Boom insert				
	3m	6 m	12mA	12mB	12mC
30	—	—	1	—	—
36	—	1	1	—	—
42	—	—	1	1	—
48	—	1	2	—	—
54	—	—	2	1	—
60	—	1	3	—	—
66	—	—	4	—	—
72	—	1	3	1	—
78	—	—	5	—	—
84	—	1	4	1	—
90	—	—	5	—	1
96	—	1	5	1	—
102	—	—	5	1	1
108	—	1	5	1	1
114*	—	2	5	1	1
117*	1	2	5	1	1

Note: waist rope is used in the point marked with *. It must be used following operation manual or breaking danger may occur.



Hoisting height operation scope curve

SCC4000 Crawler Crane— Main boom+super-lift mast+super-lift CW. HDB Load

Boom length 30—117m, Super-lift mast 30m, Rear CW. 135t, Super-lift CW. 0-250t, Central pressure CW. 40t

length radius																	length radius				
6.5	400																	6.5			
7	400	400	400															7			
8	380	370	360	350														8			
9	365	360	355	350	328													9			
10	360	355	350	350	317	285	245											10			
11	350	347	347	347	307	284	244	208	180									11			
12	345	341	339	331	296	284	244	208	179	160								12			
14	317	312	307	301	278	267	243	207	177	158	133	118						14			
16	293	285	281	275	258	250	230	204	175	157	131	118	100	86	74	68		16			
18	270	263	259	254	239	232	220	196	174	155	129	117	100	85	73	68		18			
20	251	243	239	236	221	215	206	188	173	153	127	116	99	85	73	68		20			
22	228	225	223	220	206	201	193	180	168	150	123	115	98	84	72	67		22			
24	205	204	202	203	193	189	182	172	160	146	119	114	96	82	72	67		24			
26	190	188	185	184	181	177	172	163	153	142	115	113	94	80	71	67		26			
28		175	173	174	171	167	161	154	144	136	112	112	92	78	70	67		28			
30		163	162	160	160	158	152	145	137	129	109	110	90	76	69	66		30			
32		150	150	150	147	146	144	139	131	123	105	108	88	74	67	65		32			
34			143	141	137	136	136	131	124	117	103	104	85	73	65	64		34			
36			134	131	130	129	129	125	118	112	100	101	83	72	63	63		36			
38			125	125	123	121	118	117	112	107	96	97	82	70	62	62		38			
40				119	115	114	110	110	105	102	93	93	80	65	59	58		40			
44				107	100	101	102	97	92	93	87	86	74	63	55	54		44			
48					93	92	91	89	87	82	81	79	69	59	50	50		48			
52						84	82	81	78	76	73	73	61	53	47	46.5		52			
56							76	74	70	69	66	66	56	49.5	44	44		56			
60								67	64	62	62	59	53	46.5	40	40		60			
64									63	60	58	56	55	47	42.5	38	38		64		
68										55	54	51	51	41	39	36	36		68		
72											50	47	47	36	33	30	30		72		
76												44.5	42.5	31	28	23	23		76		
80													42	40	28	24	20	20		80	
84														37.5	26	20	16	15		84	
88															24	17.5	13	12		88	
92																16	11	10		92	
96																	10	9		96	
100																		9	8		100
104																				7	104
wind velocity (m/s)	14.3	12.8				11.1				9								Wind velocity (m/s)			

Note: 1. Actual hoisting weight shall be the value of rated hoisting weight deducting the weight of hook blocks, hoisting tools and steel ropes winding the hook blocks and boom heads.

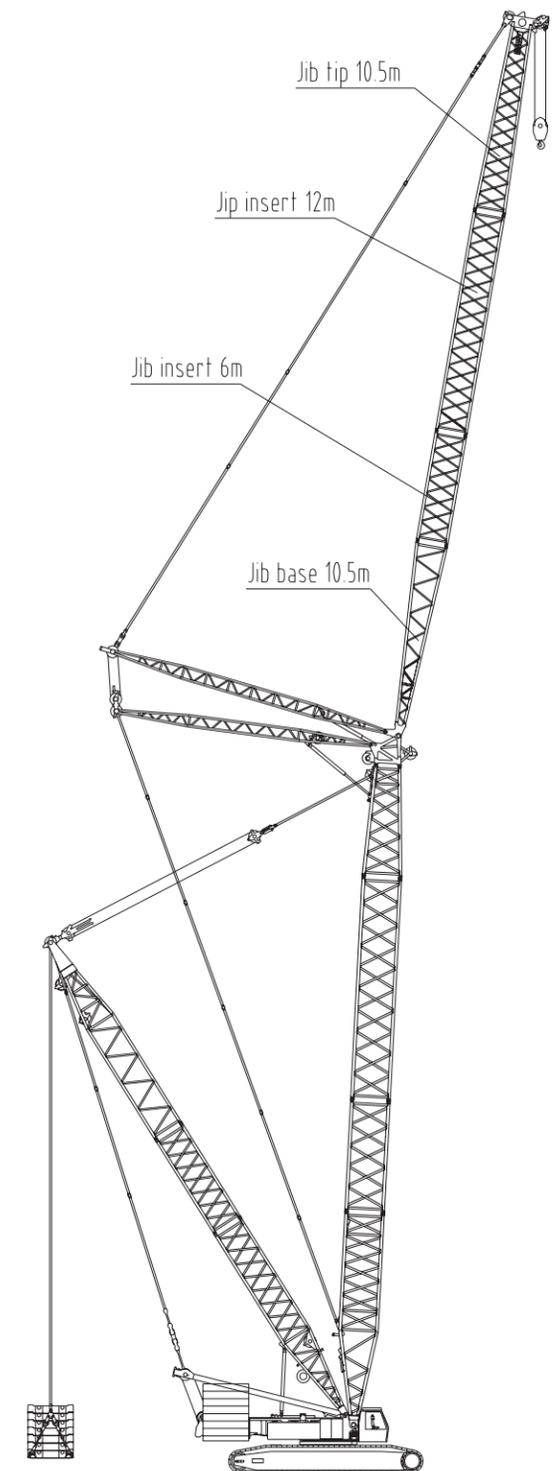
2. The rated load shown in the table refers to the value on level and solid ground.

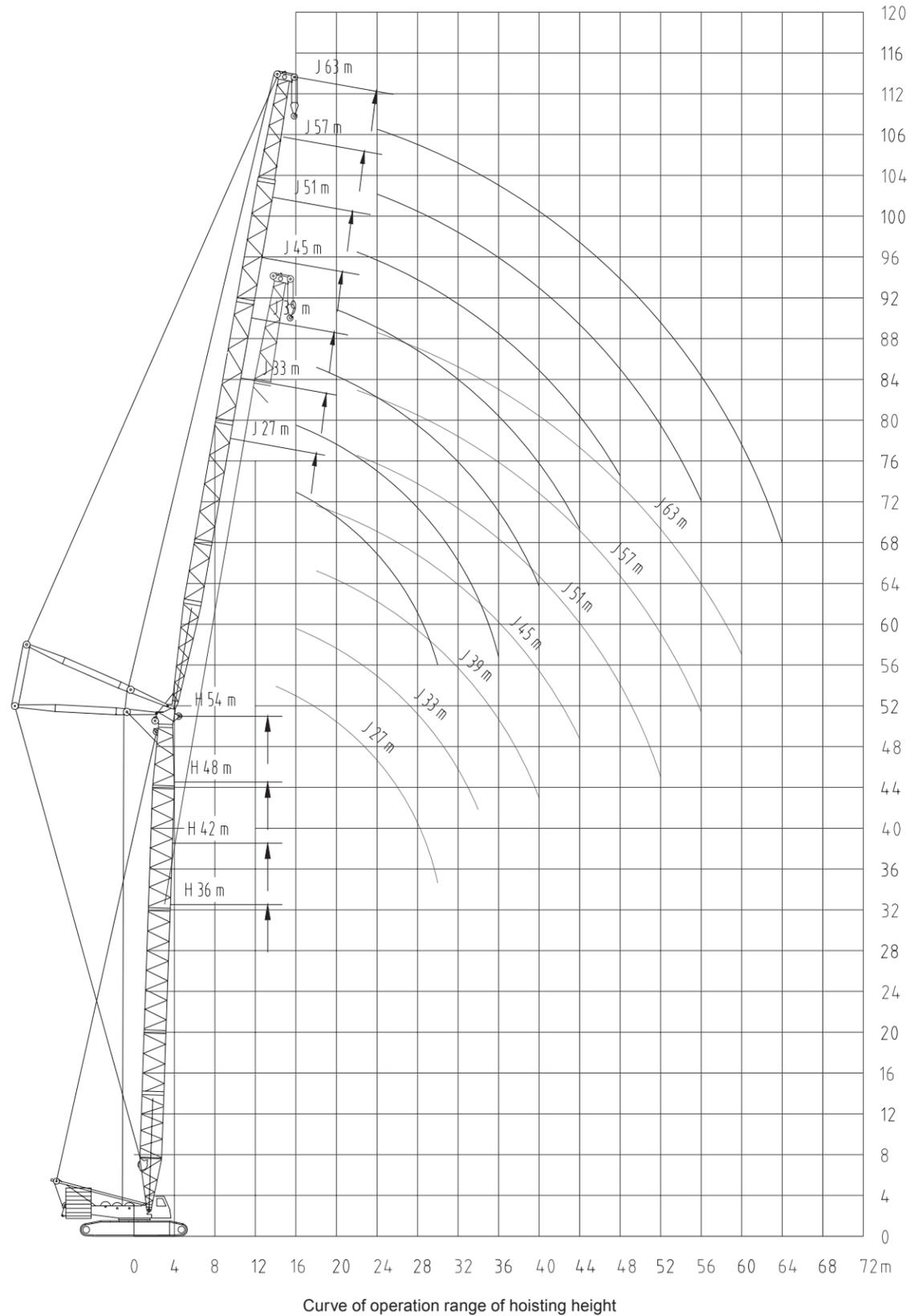
Jib length (m)	Jib inserts		Main boom length(m)
	6 m	12 m	
27	1	—	36~54(LJ) 36~84(LJDB)
33	—	1	
39	1	1	
45	—	2	
51	1	2	
57	—	3	
63	1	3	
69*	—	4	
75*	1	4	
81*	—	5	
87*	1	5	

Jib length in LJ state: 27m~63m

Jib length in LJDB state: 27m or 33m~87m

* means waist rope must be used for jib of 69-87m.





Curve of operation range of hoisting height

SCC4000 Crawler Crane— Luffing Jib(LJ) Operating Condition

Boom angle 87° Boom 36m~54m Rear CW.155t Central pressure CW.40t

Boom 36m

radius \ jib length	27	33	39	45	51	57	63	jib length \ radius
14	120							14
16	105	103						16
18	95	92	90	87				18
20	85	83	80	79				20
22	77	76	73	72	68	62		22
24	71	69	67	67	62	56	52	24
26	65.5	64	62	61	58	52	51	26
28	59.5	59	57	56	53	48	48	28
30	54	55	53	52	50	44.5	44	30
32		50.5	50	49	46.5	42	41	32
34		46.5	46	45.5	43.5	40	39	34
36			43	42	40.5	37.5	37	36
38			40	39.5	38	35	34	38
40			37	37	36	34	32	40
44				32.5	31.5	30	28	44
48					28	26.5	24	48
52					24.5	22.5	21	52
56						20	19	56
60							17	60
wind velocity (m/s)	12.8	11.1						wind velocity (m/s)

Flank plate must be used to support the 54m position of LJ main boom, or overturn danger may occur.

Note: 1. Actual hoisting weight shall be the value of rated hoisting weight deducting the weight of hook blocks, hoisting tools and steel ropes winding the hook blocks and boom heads.

2. The rated hoisting weight in the chart is the weight which is lifted by crane on level and hard ground.

SCC4000 Crawler Crane— Luffing Jib(LJ) Operating Condition

Boom angle 87° Boom 36m~54m Rear CW.155t Central pressure CW.40t

Boom42m									
radius \ jib length	27	33	39	45	51	57	63	jib length \ radius	
14	117							14	
16	103	100						16	
18	92	90	87					18	
20	82.5	80	78	75				20	
22	75	72	71	68	63	60.5		22	
24	69	66	65	63	58	57	53	24	
26	64	61	60	58	54	53	52	26	
28	59	57	56	54	50	49	48	28	
30	54	53	52	50	46	46	44.5	30	
32		49	48.5	47	43	42	41.5	32	
34		45.5	45	44	41	40	38	34	
36			42	41	38	37	36	36	
38			39	38.5	36	35	34	38	
40			35	36	34	33	32	40	
44				31.5	30	30	28	44	
48					27	25	25	48	
52					23.5	23	22.5	52	
56						21	20	56	
60							17	60	
wind velocity(m/s)	11.1						9		wind velocity(m/s)

Flank plate must be used to support the 54m position of LJ main boom, or overturn danger may occur.

Note: 1. Actual hoisting weight shall be the value of rated hoisting weight deducting the weight of hook blocks, hoisting tools and steel ropes winding the hook blocks and boom heads.

2. The rated hoisting weight in the chart is the weight which is lifted by crane on level and hard ground.

SCC4000 Crawler Crane— Luffing Jib(LJ) Operating Condition

Boom angle 87° Boom 36m~54m Rear CW.155t Central pressure CW.40t

Boom 48m									
radius \ jib length	27	33	39	45	51	57	63	jib length \ radius	
14	111							14	
16	98	96						16	
18	88	87	81					18	
20	80	78	75	67				20	
22	72	70	68	62	58			22	
24	66	65	62	58	55	55	49	24	
26	61	60	57	56	54	52	48.5	26	
28	57	56	53	51.5	51	47	46.5	28	
30	53	52	49	48	47	44	43.5	30	
32		48	46	45	43	41	40.5	32	
34		45	43	42	40	38	37.5	34	
36			40	39.5	38	36	34	36	
38			38	37.5	35.5	34	32	38	
40			36	35	34	32	30	40	
44				31	29.5	28.5	27	44	
48					26.5	25.5	24	48	
52					22	22.5	21	52	
56						20	18	56	
60							16	60	
64							14	64	
wind velocity(m/s)	11.1						9		wind velocity(m/s)

SCC4000 Crawler Crane— Luffing Jib(LJ) Operating Condition

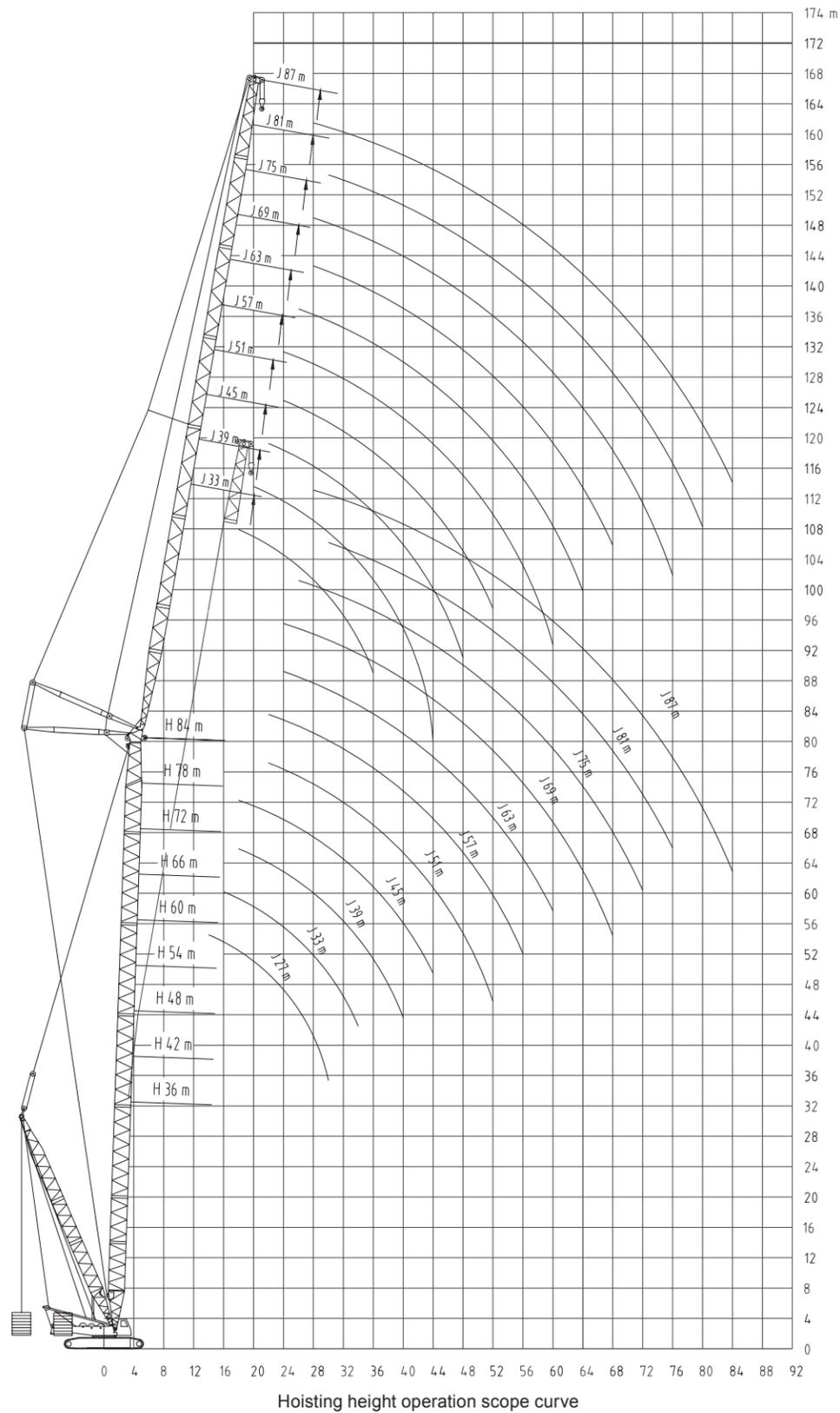
Boom angle 87° Boom 36m~54m Rear CW.155t Central pressure CW.40t

Boom 54m									
radius \ jib length	27	33	39	45	51	57	63	jib length \ radius	
16	94	82						16	
18	85	80	73					18	
20	77	72	70	65				20	
22	70	66	65	61	57			22	
24	64	61	60	57	54	50		24	
26	59	56	56	53	50	50	43.5	26	
28	55	52	52	49	46.5	47	42.5	28	
30	50	48.5	48	46	43	43	41.5	30	
32		45.5	45	43	40.5	41	38	32	
34		43	42	40	38	38	36	34	
36		39.5	39	37.5	35.5	36	33	36	
38			36.5	36	33.5	34	31	38	
40			34	33.5	32	32	29	40	
44				29.5	28.5	28	25.5	44	
48					25.5	25	23	48	
52					22.5	22	20	52	
56						19.6	17	56	
60							15	60	
64							13.5	64	
wind velocity(m/s)	11.1						9		wind velocity(m/s)

Flank plate must be used to support the 54m position of LJ main boom, or overturn danger may occur.

Note: 1. Actual hoisting weight shall be the value of rated hoisting weight deducting the weight of hook blocks, hoisting tools and steel ropes winding the hook blocks and boom heads.

2. The rated hoisting weight in the chart is the weight which is lifted by crane on level and hard ground.



SCC4000 Crawler Crane— Luffing jib+Super-lift mast+Super-lift CW. LJDB Load

Boom angle 87° Boom 36m~84m Superlift mast 30m jib 27m or 33~87m Superlift CW. 0~250t radius 11~15m rear CW. 135t central pressure CW.40t

		Boom 36m												
jib length radius	27	33	39	45	51	57	63	69	75	81	87	jib length radius		
14	180											14		
16	168	144										16		
18	158	138	119	103								18		
20	149	132	117	101								20		
22	140	127	112	98	85	70						22		
24	132	121	108	95	83	69	59	53				24		
26	120	115	104	92	81	68	57	52	44.5			26		
28	109	108	100	90	80	67	55	51	44			28		
30	99	98	96	86	78	66	54	50.5	43.5	36.5	30	30		
32		90	90	83	74	65	53.5	50	43	36	29.5	32		
34		84	83	80	72	64	52	50	42.5	36	29	34		
36			78	77	69	63	51	49	42	35.5	28	36		
38			73	71	66	61	49	47	42	35	28	38		
40			68	67	63	59	47	46	41.5	34.5	27.5	40		
44				60	59	56	43	42	40.5	34.5	27	44		
48					52	50	40	39.5	39	34	26	48		
52					45	44	37	36.5	36	33	25.5	52		
56						42	34	34	34	32	25	56		
60							32	32	31.5	31	24.4	60		
64								30	29.5	29.5	23.8	64		
68								29	29	26.5	23	68		
72									27	24.5	22.3	72		
76										22.5	22	76		
80											21.2	80		
84											19.5	84		
wind velocity (m/s)	12.8	11.1											wind velocity (m/s)	

Note: 1. Actual hoisting weight shall be the value of rated hoisting weight deducting the weight of hook blocks, hoisting tools and steel ropes winding the hook blocks and boom heads.

2. The rated hoisting weight in the chart is the weight which is lifted by crane on level and hard ground.

SCC4000 Crawler Crane— Luffing jib+Super-lift mast+Super-lift CW. LJDB Load

Boom angle 87° Boom 36m~84m Superlift mast 30m jib 27m or 33~87m Superlift CW. 0~250t radius 11~15m rear CW. 135t central pressure CW.40t

Boom 42m

jib length radius	27	33	39	45	51	57	63	69	75	81	87	jib length radius
14	159											14
16	153	133										16
18	145	127	112									18
20	138	123	109	96								20
22	128	118	106	93	80	67						22
24	122	113	101	91	78	66	55					24
26	115	107	98	88	76	64	54	49.5				26
28	108	102	94	85	75	63	53	49	39.5			28
30	100	96	90	82	73	62	52	48	39	34.5	27.4	30
32		93	87	78	71	60	51	47.5	38.5	34	27	32
34		88	84	74	69	59	50	47	37.5	33.5	26.6	34
36			81	70	68	58	48	46.5	37.5	33.5	26	36
38			78	65	63	56	46	45.5	37	33	25.5	38
40			73	60	59	55	44	44	36.5	33	25	40
44				54	54	52	41	41	35.5	32	24	44
48					49	49	38	38	34.5	31	23.2	48
52					46	45	34	34	33.5	31	22.5	52
56						40	33	33	32	30.5	22	56
60							32	31.5	30	28	21.3	60
64								29	27.5	26	20.5	64
68								28	25.5	24	20	68
72									23.5	22.2	19	72
76										21	18	76
80										20	16.5	80
84											15.5	84
wind velocity (m/s)	11.1	9										wind velocity (m/s)

Note: 1. Actual hoisting weight shall be the value of rated hoisting weight deducting the weight of hook blocks, hoisting tools and steel ropes winding the hook blocks and boom heads.

2. The rated hoisting weight in the chart is the weight which is lifted by crane on level and hard ground.

SCC4000 Crawler Crane— Luffing jib+Super-lift mast+Super-lift CW. LJDB Load

Boom angle 87° Boom 36m~84m Superlift mast 30m jib 27m or 33~87m Superlift CW. 0~250t radius 11~15m rear CW. 135t central pressure CW.40t

Boom 48m

jib length radius	27	33	39	45	51	57	63	69	75	81	87	jib length radius
14	140											14
16	135	118										16
18	130	114	100									18
20	123	110	96	87								20
22	118	106	94	85	75							22
24	112	101	91	83	74.5	65	53.5					24
26	106	98	88	81	73	64	52	47.5				26
28	100	94	84	78	72	63	51	47	40			28
30	95	89	80	75	70	62	51	46	39.5	33.5	24.5	30
32		85	78	72	68	60	49.5	45.5	39	33	24	32
34		82	75	71	66	59	49	45	38.5	32.6	23.5	34
36			72	69	64	56	47.5	44	38	32	23.1	36
38			69	65	62	54	46.5	43	37.5	31.2	22.7	38
40			65	62	59	52	45	42	37	30.8	22.2	40
44				57	55	50	42.5	40.5	36	30.2	21.2	44
48					50	47	39	38	35.5	29.3	20.8	48
52					41	41	36	36	34	28.7	20	52
56						35	33	33	32	28	19.2	56
60							31	31	30	26.5	18.7	60
64							29	29	26	25	18	64
68								27.5	24.5	23	17.2	68
72									23	21	16.9	72
76										20	16	76
80										18	14.2	80
84											13.5	84
wind velocity (m/s)	9											wind velocity (m/s)

Note: 1. Actual hoisting weight shall be the value of rated hoisting weight deducting the weight of hook blocks, hoisting tools and steel ropes winding the hook blocks and boom heads.

2. The rated hoisting weight in the chart is the weight which is lifted by crane on level and hard ground.

SCC4000 Crawler Crane— Luffing jib+Super-lift mast+Super-lift CW. LJDB Load

Boom angle 87° Boom 36m~84m Superlift mast 30m jib 27m or 33~87m Superlift CW. 0~250t radius 11~15m rear CW. 135t central pressure CW.40t

Boom 54m

jib length radius	27	33	39	45	51	57	63	69	75	81	87	jib length radius
16	122	106										16
18	115	102	90									18
20	111	99	86	77								20
22	105	96	85	76	68							22
24	100	92	82	74	66	59						24
26	97	87	79	71	65	58	49	43				26
28	93	84	77	70	63	57	47.5	42	36.5			28
30	92	81	73	67	62	55	46	41	36	30.1	23.7	30
32		78	71	65	60	54	45	40.5	35	29.5	23.2	32
34		76	69	63	58	52	44	40	35	29	22.9	34
36		75	67	61	57	51	43	39	34.5	28.7	22.5	36
38			65	60	55	50	41.5	38.5	34	28.3	22	38
40			63	59	54	48	40.5	38	33.5	27.8	21.5	40
44				57	51	45	38	36	33	27	21	44
48				54	47	43	36	35	32	26.3	20	48
52					45	41	34.5	33	31	25.5	19.2	52
56						39	32	30.5	28.5	25	18.5	56
60							30	28	26.5	24	17.5	60
64							28	26.5	25	22	17	64
68								25	23	20	16	68
72									21	19	15	72
76										18	14	76
80										15.5	13	80
84											12.5	84
wind velocity (m/s)	9											wind velocity (m/s)

Note: 1. Actual hoisting weight shall be the value of rated hoisting weight deducting the weight of hook blocks, hoisting tools and steel ropes winding the hook blocks and boom heads.

2. The rated hoisting weight in the chart is the weight which is lifted by crane on level and hard ground.

SCC4000 Crawler Crane— Luffing jib+Super-lift mast+Super-lift CW. LJDB Load

Boom angle 87° Boom 36m~84m Superlift mast 30m jib 27m or 33~87m Superlift CW. 0~250t radius 11~15m rear CW. 135t central pressure CW.40t

Boom 60m

jib length radius	27	33	39	45	51	57	63	69	75	81	87	jib length radius
16	106											16
18	101	92	82									18
20	97	88	79	72								20
22	94	85	77	70	62							22
24	90	82	75	68	60	54						24
26	87	79	72	66	58	53	45	41				26
28	84	76	70	64	57	52	44	40.5	34.5			28
30	83	72	67	62	55	51	43	40	34	28.6		30
32		70	65	60	53	49	42	39.5	33.5	28.2	23.5	32
34		69	64	58	52	48	41	39	33	27.7	23	34
36		67	63	57	50	46.5	40	38	32.5	27	22.6	36
38			62	56	49	45.5	39	37	32	26.6	22.2	38
40			60	53	47	44	37	36	31.4	26.2	21.7	40
44				49	45	42	35	34.5	30.5	25.5	21.2	44
48				45	44	40.5	33	32.5	29.3	24.8	20.5	48
52					42	38.5	31.5	31	28	23.5	19.5	52
56						36	29.5	29	26	22.5	18.8	56
60							27.5	27	24.5	21	18	60
64							25.5	25	23	20.5	17.2	64
68								23.5	21	19	16.3	68
72									20	17.5	15.4	72
76										16	14	76
80										15	13	80
84											12	84
wind velocity (m/s)	9											wind velocity (m/s)

Note: 1. Actual hoisting weight shall be the value of rated hoisting weight deducting the weight of hook blocks, hoisting tools and steel ropes winding the hook blocks and boom heads.

2. The rated hoisting weight in the chart is the weight which is lifted by crane on level and hard ground.

SCC4000 Crawler Crane— Luffing jib+Super-lift mast+Super-lift CW. LJDB Load

Boom angle 87° Boom 36m~84m Superlift mast 30m jib 27m or 33~87m Superlift CW. 0~250t radius 11~15m rear CW. 135t central pressure CW.40t

Boom 66m

jib length radius	Boom 66m											jib length radius
	27	33	39	45	51	57	63	69	75	81	87	
16	97											16
18	93	84										18
20	90	81	72									20
22	88	79	70	63	57							22
24	85	77	68	62	56	48						24
26	81	74	67	60	55	47	39					26
28	78	72	60	59	53	46	38.5	34	30			28
30	76	68	59	57	51	45	38	33.5	29.5	24.5		30
32		65	58	55	50	44.5	37.5	33	29	24	18	32
34		64	57.5	54	49	43.5	37	32	28.5	23.5	17.5	34
36		63	57	52	48.5	42.5	36.5	31.5	28	23	17.1	36
38			56	51	47	42	36	31	27.5	22.5	16.8	38
40			55	50	46	41	35	30.5	27	22	16.4	40
44				47	44	40	32.5	30	26	21.2	16	44
48				46	42	37	31.5	29.5	24.3	20.8	15.6	48
52					41	35	30	28.5	23	20	15.2	52
56						34	28	27	22	19	14.8	56
60							26	24.7	21	18	14	60
64							24	22.5	20	17	13.3	64
68								21	19	16	12.6	68
72									17	14.5	12	72
76									15.5	13.6	11	76
80										12.4	10.3	80
84											9	84
wind velocity (m/s)	9											wind velocity (m/s)

Note: 1. Actual hoisting weight shall be the value of rated hoisting weight deducting the weight of hook blocks, hoisting tools and steel ropes winding the hook blocks and boom heads.

2. The rated hoisting weight in the chart is the weight which is lifted by crane on level and hard ground.

SCC4000 Crawler Crane— Luffing jib+Super-lift mast+Super-lift CW. LJDB Load

Boom angle 87° Boom 36m~84m Superlift mast 30m jib 27m or 33~87m Superlift CW. 0~250t radius 11~15m rear CW. 135t central pressure CW.40t

Boom 72m

jib length radius	Boom 72m											jib length radius
	27	33	39	45	51	57	63	69	75	81	87	
16	87											16
18	83	76										18
20	81	74	64									20
22	78	72	62.5	58								22
24	75	70	60.5	56	50.5	43						24
26	72	67	59.5	54	49	42	35					26
28	71	65	58	53	48	41.5	34.5	30.5				28
30	70	63	56	52	47	40.5	34	30	26.5			30
32		61	54	50	46	40	33.5	29.5	26	22.6	17.6	32
34		60	53	49	44.5	39	33	29	25.5	22.2	17.2	34
36		59	52	47	43.5	38	32.5	28	25	21.8	16.8	36
38			50	45.5	42.5	37	32	27.5	24.5	21.4	16.3	38
40			49.5	44	41	36	31	27	24	21	16	40
44				42	39.5	34	30	26.5	23	20.4	15.5	44
48				40	38	32.5	28	25	22	19.5	15	48
52					37.5	31.5	27	24	21.5	19	14.5	52
56						30	25.5	22.7	20.5	17.5	14	56
60						28	24	21.6	19.4	16.3	13.4	60
64							22	19.8	18.3	15.1	12.5	64
68								18.6	17	14.3	12	68
72									16	13.2	11.5	72
76									14.6	12.1	10.8	76
80										11	10	80
84											9.3	84
wind velocity (m/s)	9											wind velocity (m/s)

Note: 1. Actual hoisting weight shall be the value of rated hoisting weight deducting the weight of hook blocks, hoisting tools and steel ropes winding the hook blocks and boom heads.

2. The rated hoisting weight in the chart is the weight which is lifted by crane on level and hard ground.

SCC4000 Crawler Crane— Luffing jib+Super-lift mast+Super-lift CW. LJDB Load

Boom angle 87° Boom 36m~84m Superlift mast 30m jib 27m or 33~87m Superlift CW. 0~250t radius 11~15m rear CW. 135t central pressure CW.40t

Boom 78m

jib length radius	27	33	39	45	51	57	63	69	75	81	87	jib length radius
16	79											16
18	77	67										18
20	74	65	58									20
22	71	64	56	52								22
24	69	61	55	51	45	38						24
26	66	59	53	50	44	37	32.5					26
28	64	57	51	48	43	36	32	28.9				28
30	63	54.5	49	47.5	41.5	35.5	32	28.3	24.3			30
32	62	52	47	45.5	40.5	35	31.5	27.7	23.8	20		32
34		51	46	43.5	40	34	31	27.2	23.3	19.5	15	34
36		51	44	42.5	39.5	33.5	30	26.5	22.8	19.1	14.8	36
38		50	43	42	38.5	33	29	25.8	22.4	18.8	14.5	38
40			42	40	37.5	32	28	25	21.8	18.4	13.8	40
44			41	38	36	30.5	26	23.5	20.8	17.7	12.5	44
48				35	34	29.5	24.5	22.3	19.5	16.8	11.5	48
52					32	28.5	23.5	21	18.5	16	10.8	52
56						27.5	22.5	20	17.5	15	10	56
60						26	21	19.2	16.5	14.2	9.6	60
64							19.5	18.2	15.6	13.3	9.2	64
68								17	15.1	12.7	9	68
72									14.1	12.2	8.8	72
76									13	11.2	8.6	76
80										10.2	8.4	80
84											8	84
wind velocity (m/s)	9											wind velocity (m/s)

Note: 1. Actual hoisting weight shall be the value of rated hoisting weight deducting the weight of hook blocks, hoisting tools and steel ropes winding the hook blocks and boom heads.

2. The rated hoisting weight in the chart is the weight which is lifted by crane on level and hard ground.

SCC4000 Crawler Crane— Luffing jib+Super-lift mast+Super-lift CW. LJDB Load

Boom angle 87° Boom 36m~84m Superlift mast 30m jib 27m or 33~87m Superlift CW. 0~250t radius 11~15m rear CW. 135t central pressure CW.40t

Boom 84m

jib length radius	33	39	45	51	57	63	69	75	81	87	jib length radius	
18	60										18	
20	58	52									20	
22	57	50	45								22	
24	55	49	43	39.5	36						24	
26	53	48	42	38.5	35	31					26	
28	51	46	41	38	34	30.5	26				28	
30	49	44	40	36	33	29.5	25.4	22.5			30	
32	47	42.5	38.5	35	32	29	24.8	22	18		32	
34	46	41.5	37	34	31	28.5	24.3	21.6	17.6	12.6	34	
36	45.5	41	36	33	30	27.5	23.7	21.2	17.2	12.2	36	
38		39	35	32	29	26.5	23.2	20.7	16.5	11.9	38	
40		38	34	31	28	26	22.8	20.2	15.7	11.5	40	
44		37	32	29	26	24.5	21.6	19.7	14.3	11.1	44	
48			30	27.5	25	23	20.3	18.6	13.2	10.5	48	
52				25.5	24	22	19.1	17.5	12.5	10	52	
56					23	21	18	16	12	9.3	56	
60					22.5	20	17.2	14.9	11.5	8.5	60	
64						19	16.6	14	11	7.8	64	
68							16	13.8	10.6	7	68	
72								13.5	10.5	6.2	72	
76								13	10.2	5.8	76	
80									10	5.4	80	
84										5	84	
wind velocity (m/s)												wind velocity (m/s)

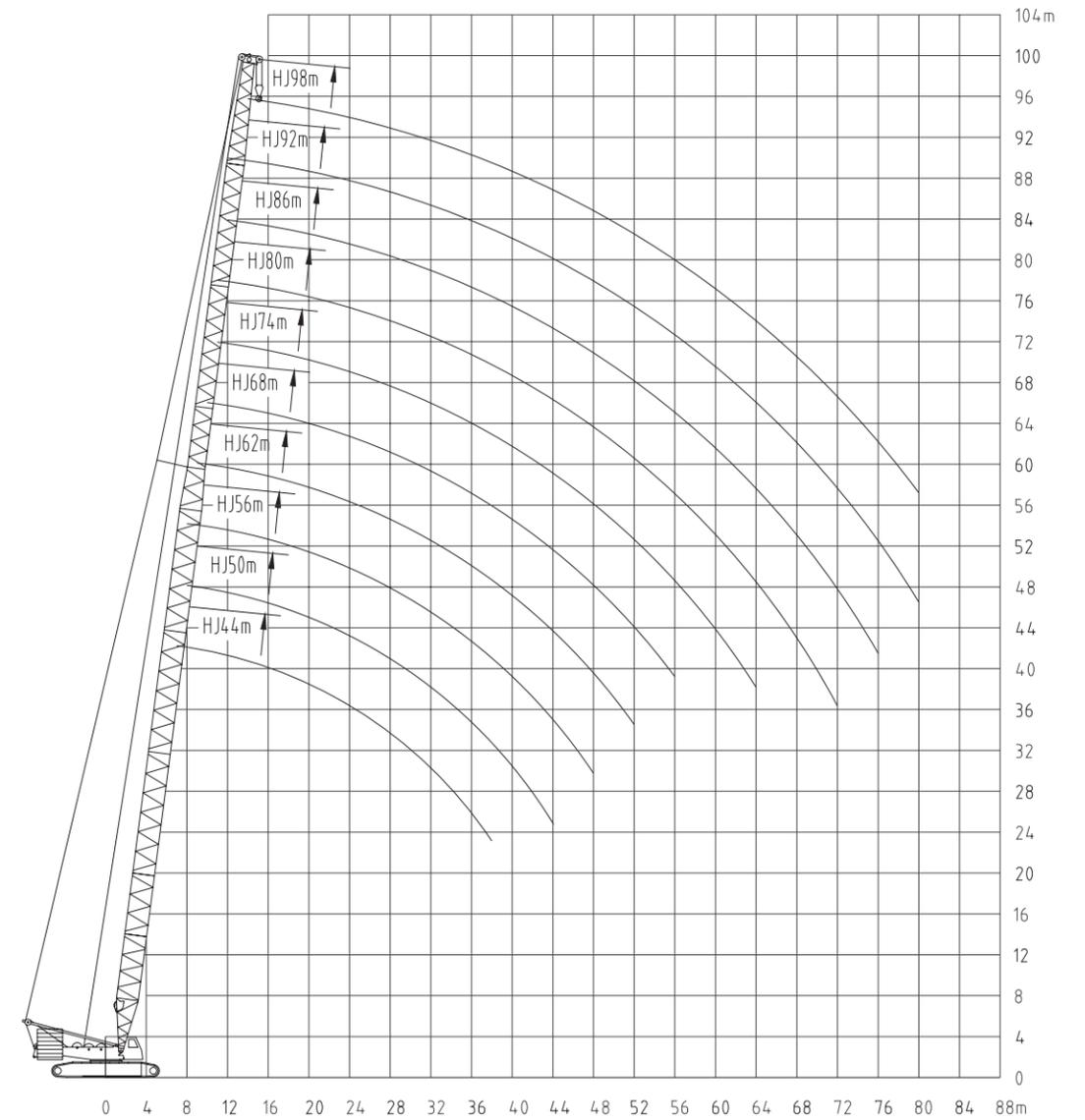
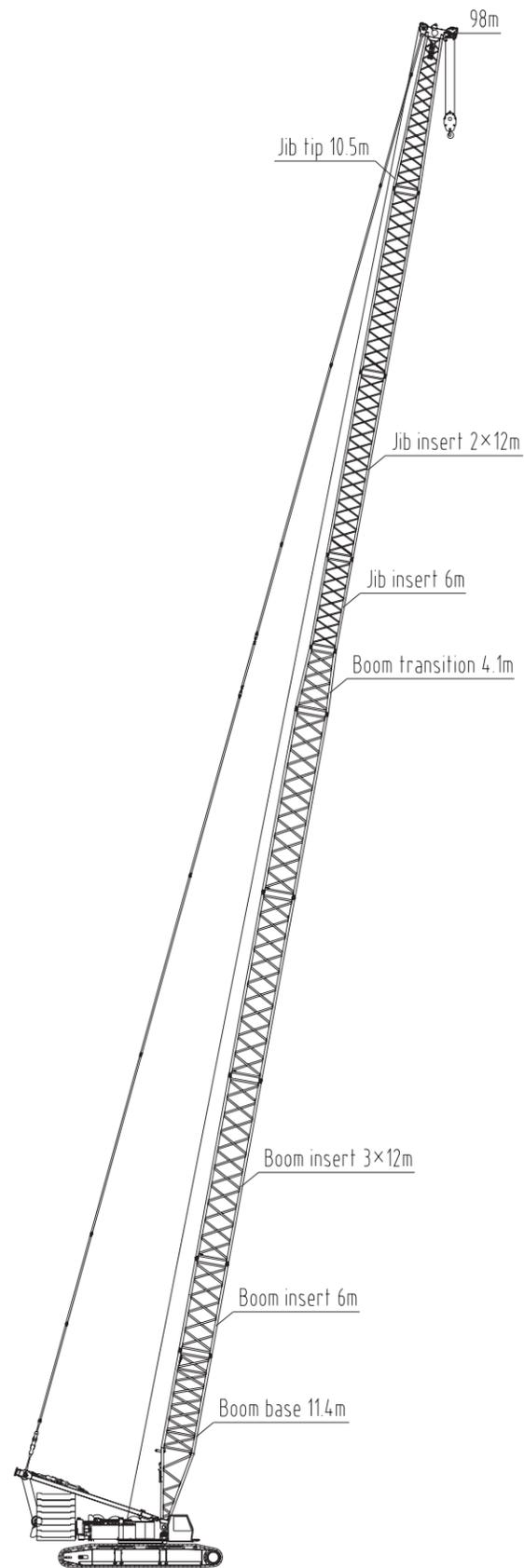
Note: 1. Actual hoisting weight shall be the value of rated hoisting weight deducting the weight of hook blocks, hoisting tools and steel ropes winding the hook blocks and boom heads.

2. The rated hoisting weight in the chart is the weight which is lifted by crane on level and hard ground.

Boom length m	Boom insert		Jib insert	
	6 m	12m	6m	12m
44	1	—	—	1
50	—	1	—	1
56	—	1	1	1
62	1	1	1	1
68*	—	2	1	1
74*	1	2	1	1
80*	—	3	1	1
86*	—	3	—	2
92*	1	3	—	2
98*	1	3	1	2

Note: waist rope is used in the point marked with * with boom from 68m to 98m.

Note: when in HJ working condition of 98m boom, the operator **MUST** erect the boom from the flank and use outriggers, otherwise, there might be the risk of tipping over.



Hoisting height operation scope curve

SCC4000 Crawler Crane— Load Table in HJ state

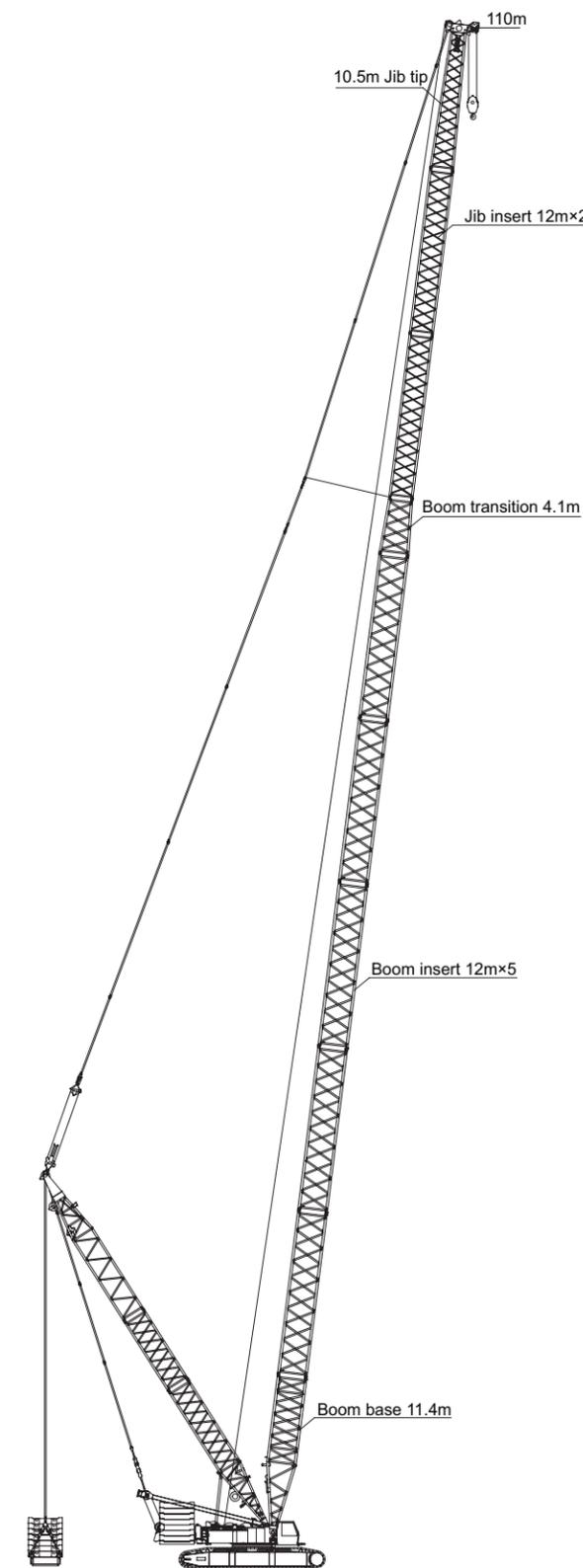
Mixed boom 44~98m				rear CW.135/155t,				Central pressure CW.40t				
jib length radius	44	50	56	62	68	74	80	86	92	98	jib length radius	
7	180										7	
8	180	170	153								8	
9	178	177	146	134							9	
10	177	175	138	126	112						10	
11	165	164	131	118	112	109	99				11	
12	159	155	124	112	108	107	105	89	81		12	
14	135	132	113	100	103	103	102	95	82	74	14	
16	113	111	102	90	95	95	94	89	80	72	16	
18	97	95.5	92	81	87	87	83	78	77	71	18	
20	85	83.5	81.6	73	78	77	74.5	70	68.5	67	20	
22	75.5	74	72.5	66	70	68	66.5	62	61.5	61	22	
24	68	66.2	65	60	62.5	61	59	56	55.5	55	24	
26	61	59.6	59	54	56.5	55	53	51	50	50	26	
28	55	54	53.5	49.5	51	49.5	47.6	46	45.5	45	28	
30	50	48	49	46.5	46.5	45	43.3	42	41	40.6	30	
32	46	45	45	43.5	42.5	41	39.5	38	37.5	36.8	32	
34	43	41	41	40	39	38	36	35	34	33.5	34	
36	39.5	38	37.5	37	36	35	33	32	31	30.5	36	
38	36.5	35	35	34.2	33.4	32	30	29	28.5	28	38	
40		33	33	32	31	30	27.8	26	26	25.5	40	
44		29	28.5	27.5	27	26	23.6	22	22	21.5	44	
48			25	24	23.5	22.5	20.3	18	19	18.2	48	
52				21	20.5	19.5	17.5	15	16.2	15.5	52	
56					18	17	15.2	12.5	13.8	13	56	
60						15	13	11	11.5	10.5	60	
64						13	11.3	9	9.5	8.5	64	
68							9.6	7	8	6.5	68	
72							8	6.5	6	5.5	72	
76								5	5	4	76	
80									4	3	80	
wind velocity (m/s)	12.8				11.1				wind velocity (m/s)			

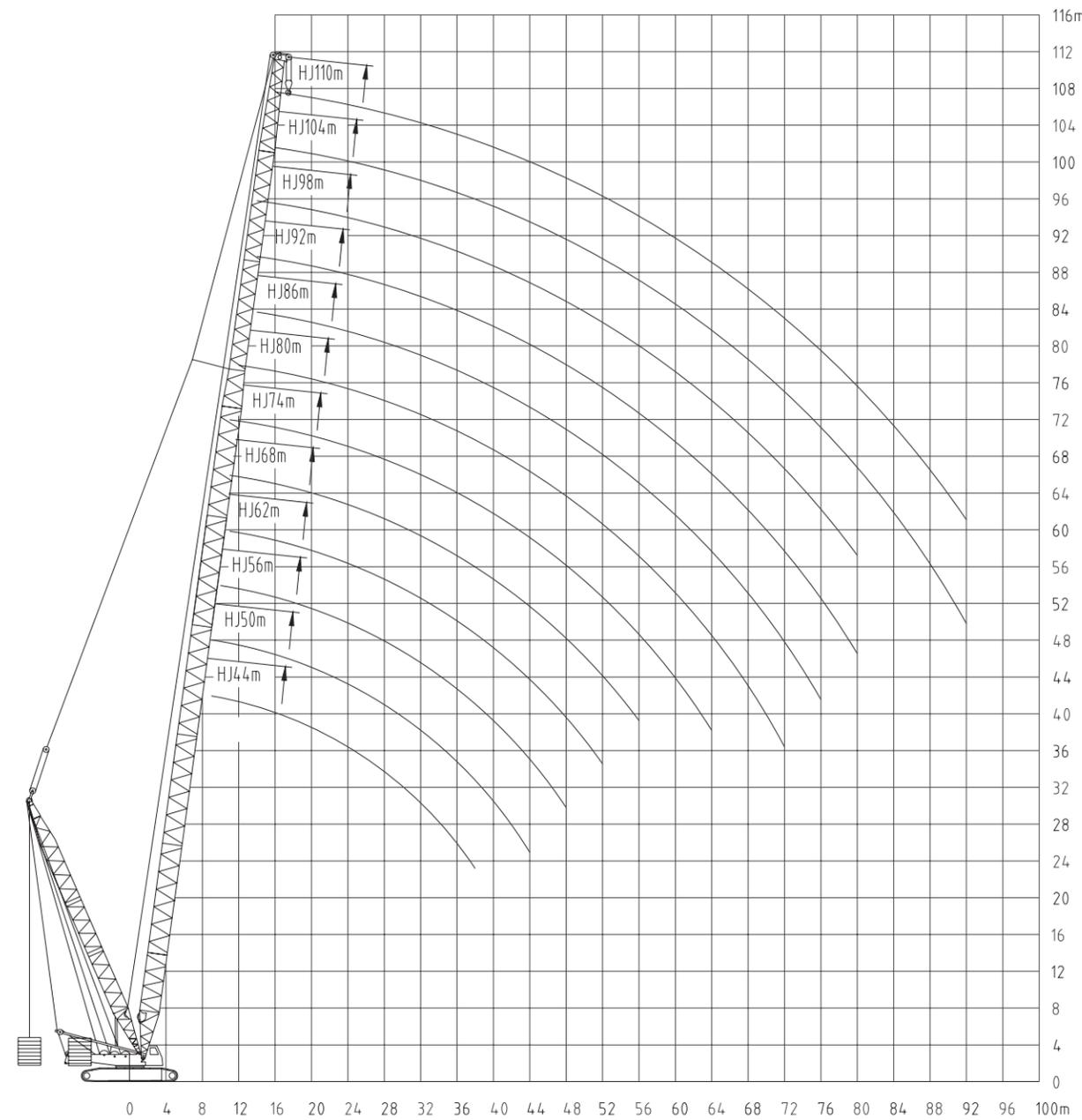
The values in gray area are determined using 155t rear counterweight, the others are determined using 135t rear counterweight.

- Note: 1. Actual hoisting weight shall be the value of rated hoisting weight deducting the weight of hook blocks, hoisting tools and steel ropes winding the hook blocks and boom heads.
2. The rated hoisting weight in the chart is the weight which is lifted by crane on level and hard ground.
3. when in HJ working condition of 98m boom, the operator **MUST** erect the boom from the flank and use outriggers.

Boom length m	Boom insert		Jib insert	
	6 m	12m	6m	12m
44	1	1	—	—
50	—	2	—	—
56	—	2	1	—
62	—	2	—	1
68	1	2	—	1
74	1	2	1	1
80*	—	3	1	2
86*	—	3	—	2
92*	1	3	—	2
98*	—	4	—	2
104*	1	4	—	2
110*	—	5	—	2

Note: waist rope is used in the point marked with * with boom from 80m to 110m.





Hoisting height operation scope curve

SCC4000 Crawler Crane— Load Table in HJDB state

Boom length 44~110m Super-lift mast 30m Rear CW. 135t Super-lift CW. 0~250t Central pressure CW. 40t

radius	jib length	44	50	56	62	68	74	80	86	92	98	104	110	jib length	radius
9		180	180												9
10		180	180	174											10
11		180	180	172	160	148	135								11
12		180	180	170	160	147	134	117							12
14		180	180	170	157	146	132	114	102	97	82				14
16		180	178	168	155	144	128	110	97	96	80	77	60		16
18		178	175	166	151	138	124	105	93	92	78	76	60		18
20		175	172	164	146	132	118	100	89	87	75	74	59		20
22		172	170	159	139	125	112	95	86	83	73	72	59		22
24		170	168	155	134	119	107	90	82	79	70	70	58		24
26		167	164	149	129	114	101	85	78	75	67	67	57		26
28		163	156	143	123	108	96	81	74	71	64	63.5	55		28
30		157	148	137	117	103	92	77	70	68	62	60	53		30
32		146	141	130	112	98	87	74	67	65	59	58	52		32
34		137	134	124	107	93	83	70	64	62	56	55	50		34
36		128	127	118	102	89	79	66	61	59	54	53	47		36
38		121	122	113	96	85	75	63	59	57	52	51	45		38
40			116	109	92	81	71	60	56	54	49.5	48	44		40
44			104	98	83	73	64	55	53	51	46	45	41		44
48				88	75	65	58	52	50	48	43	42	38		48
52					67	59	51	49	48	46	40	39	35		52
56					60	53	46	41	46	44	37	36	32.5		56
60							41	40	45	42	34	34	30.5		60
64							37	38	43	40	32	32	29		64
68								36	42	39	30	31	27.5		68
72								35	40	37	29	29	26		72
76									38	36	28	28	24.5		76
80										34	27	27	23.5		80
84												26	22.5		84
88												25	21		88
92												24	20		92
wind velocity (m/s)		12.8				11.1				9					wind velocity (m/s)

Note: 1. Actual hoisting weight shall be the value of rated hoisting weight deducting the weight of hook blocks, hoisting tools and steel ropes winding the hook blocks and boom heads.

2. The rated hoisting weight in the chart is the weight which is lifted by crane on level and hard ground.