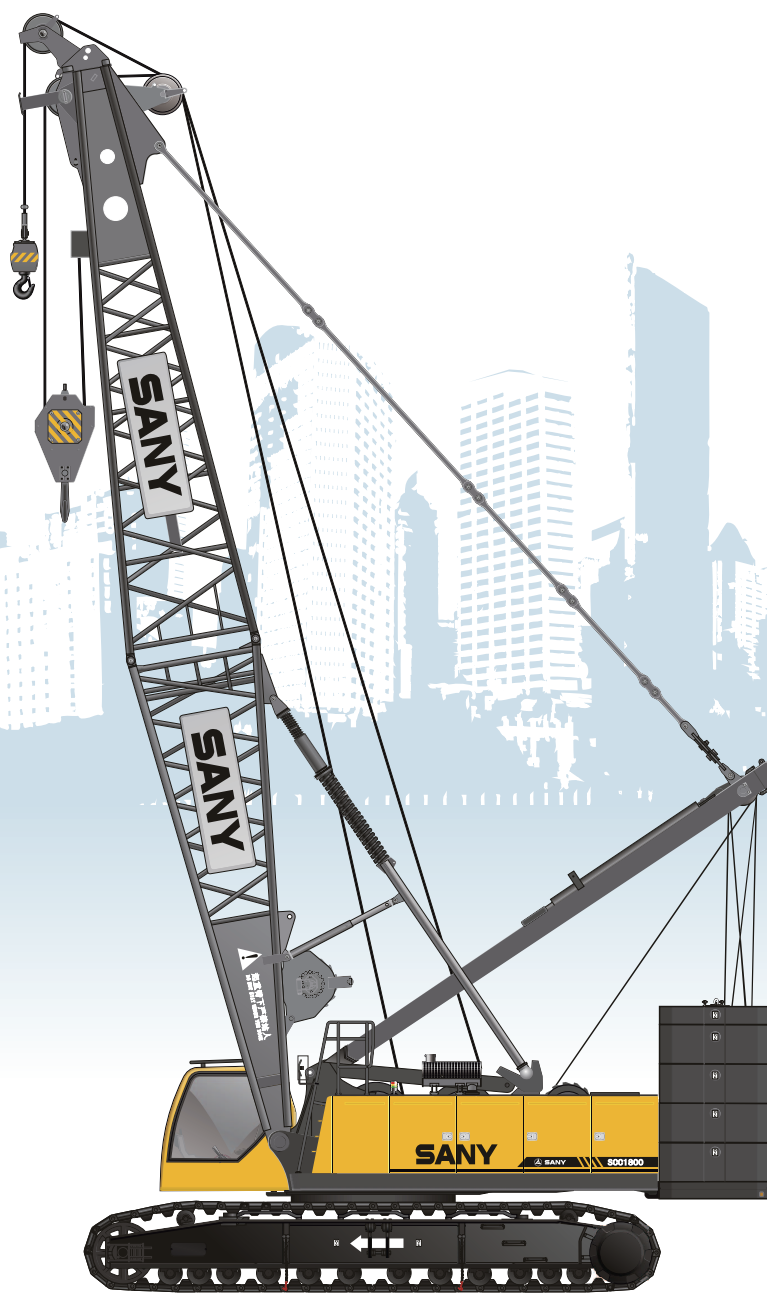
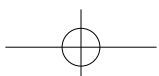


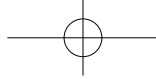
SANY

Quality Changes the World



SANY CRAWLER CRANE SCC 1800





CRAWLER CRANE

CONTENT

P3

SCC1800 Crawler Crane

Outline Dimensions
Main Technical Features
Performance Data
Transport Dimensions
Assembly Diagram

P14

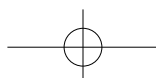
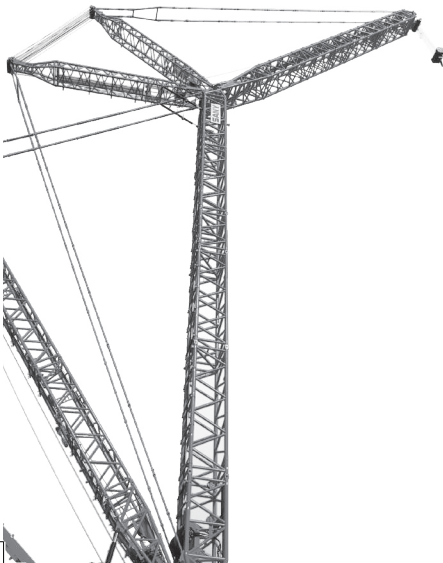
Specifications

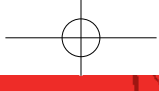
Upperworks
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Operation Device
Safety Devices
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P23

Operating Condition Combinationns

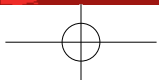
Operating Condition
H_L Operating Condition
H Operating Condition
LJ Operating Condition
FJ Operating Condition

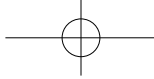




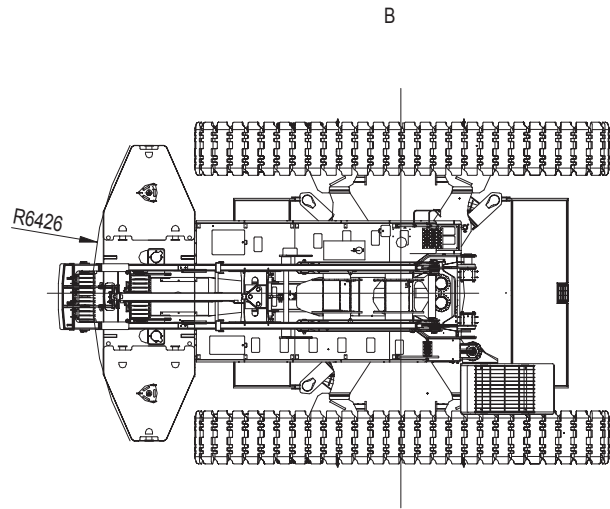
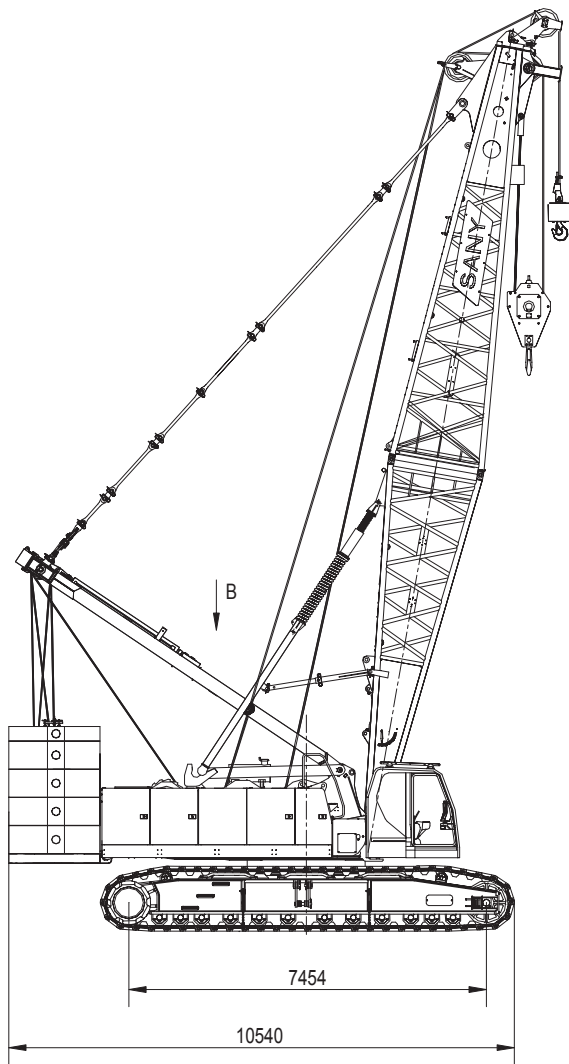
SCC1800

04	Outline Dimensions
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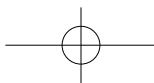
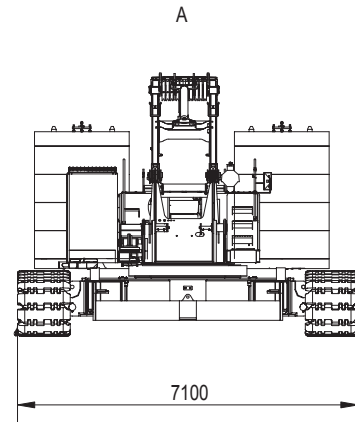




OUTLINE DIMENSIONS



A



MAIN TECHNICAL FEATURES

1. Safety control system:

Two convenient and reliable modes of operation; working and installation, with real-time level display, stop operation braking away from machine, electrical emergency control, anti-lightning protection, automatically walk switches, CCTV monitoring function, complete safety and supervision system;

2. Excellent operating performance:

Load-sensing, limit load regulation and electro-hydraulic proportional micro-speed control make each micro-movement extremely good and operation more stable;

3. Reliable functions assurance:

Key components adopt famous international brands; sufficient safety margin for structural and mechanical design; control system can operate stably in harsh environments such as cold, high temperature, altitude and sandy conditions;

4. Convenient maintenance technology:

It takes approximately no more than 10min/person to adjust;no more than 30min/person for daily maintenance;no more than 2h/person to repair.GPS remote monitoring system is optional for maintenance and management.;

5. Powerful lifting capacity:

The maximum lifting capacity of boom is $132t \times 8m = 1056t.m$, the longest boom 85m, The maximum lifting capacity of luffing jib is $48.7t \times 14m = 682t.m$,the longest boom + jib 53m+52m; it support up to 5 operating conditions;

6. Efficient self assembly and disassembly technology:

The whole machine can be assembled and disassembled by itself, and the assembly of basic machine only requires 3h; the patented synchronic control technology of one-key lifted mast has independent intellectual property right;

7. Optimized transport programs:

The transportation width of basic machine is only 3m, with a transportation weight of 42t, so it can be transported around the world without limitation;

8. Large chassis design:

6m gauge chassis ensuring excellent machine and job stability within the range of 360° rotation;

9. Automatic traveling direction:

The crane may travel forward through automatic adjustment after rotating 180° ;

10. Fuel heater (optional):

Engine can work under low temperature in extremely cold areas;

11. Two-stage engine filter:

Enable the use of home-made diesel;

12. Detection switch for on/off state of butterfly valve:

Used for preventing the main pump from being sucked off and facilitating maintenance;

13. 100% load travel:

Powerful tracking force and travel smoothness bring the advantages of crawler crane into full play;

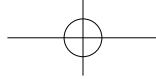
14. Broad adaptability:

Certifications: CE, North America, Australia, Russia and Taiwan; the engine emission complies with the European and U.S. Non-highway Stage 3 Standards.

PERFORMANCE DATA

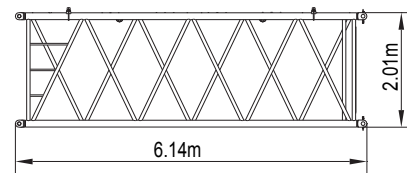
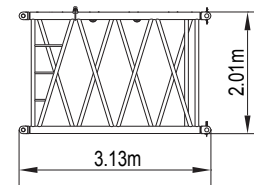
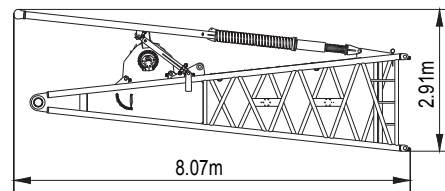
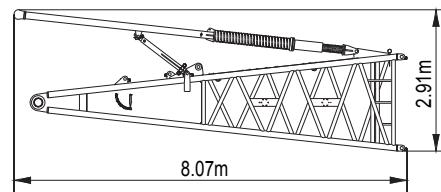
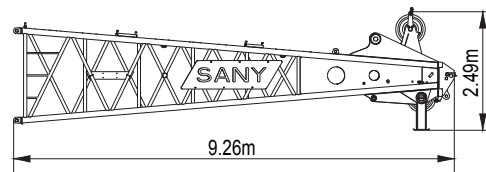
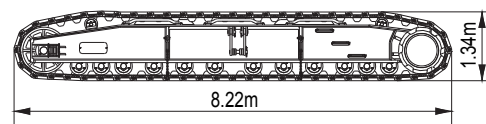
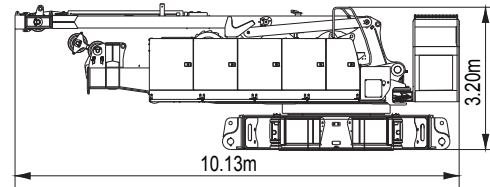
Main performance data of SCC1800 crawler crane

Performance index		Unit	Parameter
Boom H operating conditions	Max. rated lifting capacity	t	180
	Boom length	m	16~85
	Boom luffing angle	°	30~80
Fixed jib FJ operating conditions	Fully extended boom + fully extended fixed jib	m	70+31
	Angle between boom and jib	°	10, 30
	Max. rated lifting moment	t·m	48.7×14
Luffing jib LJ operating conditions	Fully extended boom + fully extended luffing jib	m	53+52
	Boom luffing angle	°	65~85
	Jib luffing angle	°	15~75
	Rope speed of main (auxiliary) winch (outermost working layer)	m/min	0~125
Speed parameters	Rope speed of main luffing winch (outermost working layer)	m/min	(0~24) × 2
	Rope speed of auxiliary luffing winch (outermost working layer)	m/min	0~24
	Swing speed	rpm	0~2
	Travel Speed	km/h	0~1.2/0~0.6 (two speeds)
	Gradeability	%	30
Engine	Output power/rated speed	kW/rpm	242 /2100
Transportation parameters	Maximum transport weight of single piece	t	42
	Transport dimensions (length X width X height)	mm	10130×3000×3200
	Average ground pressure	MPa	0.1



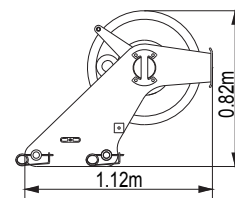
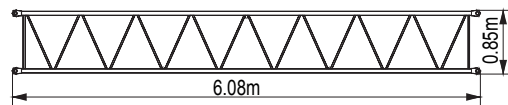
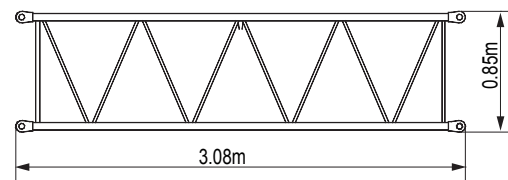
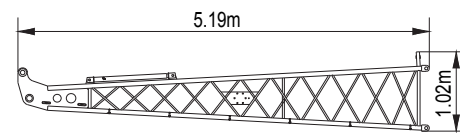
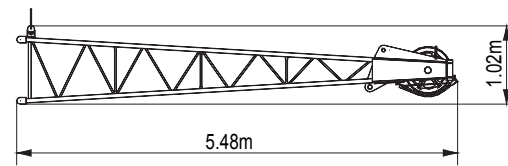
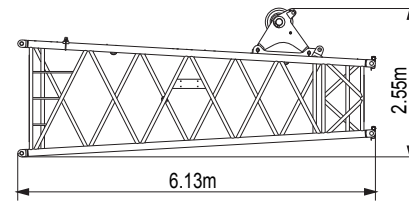
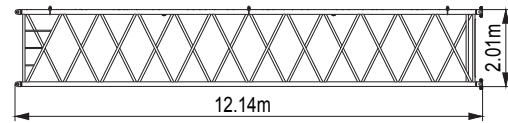
TRANSPORT DIMENSIONS

Basic machine	×1
Length	10.13m
Width	3.00m
Height	3.20m
Weight	42t
Crawler assembly	×2
Length	8.22m
Width	1.46m
Height	1.34m
Weight	20t
Boom tip	×1
Length	9.26m
Width	2.21m
Height	2.49m
Weight	3.1t
Boom base	×1
Length	8.07m
Width	2.23m
Height	2.91m
Weight	4.4t
Boom base (including winch)	×1
Length	8.07m
Width	2.23m
Height	2.91m
Weight	6.3t
3m boom insert	×1
Length	3.13m
Width	2.23m
Height	2.01m
Weight	0.81t
6m boom insert	×3
Length	6.14m
Width	2.30m
Height	2.01m
Weight	1.3t



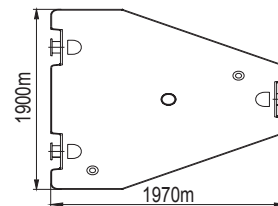
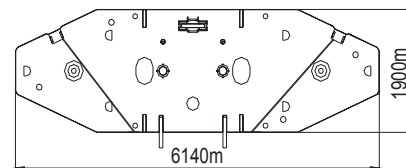
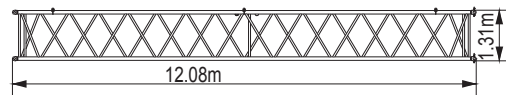
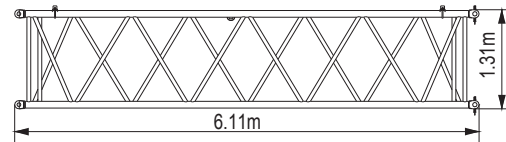
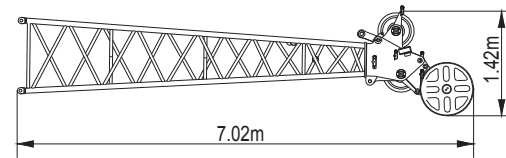
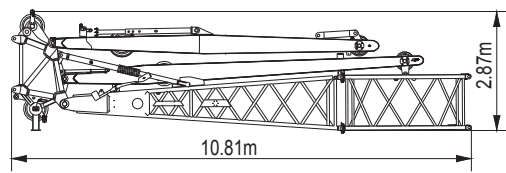
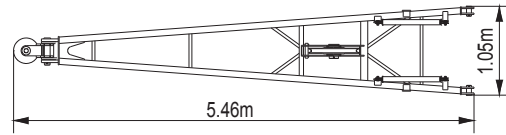
TRANSPORT DIMENSIONS

12m boom insert	×4
Length	12.14m
Width	2.30m
Height	2.01m
Weight	2.2t
Transitional section	×1
Length	6.13m
Width	2.23m
Height	2.55m
Weight	1.6t
Fixed jib tip	×1
Length	5.48m
Width	1.02m
Height	0.85m
Weight	0.47t
Fixed jib base	×1
Length	5.19m
Width	1.02m
Height	0.85m
Weight	0.27t
3m fixed jib insert	×1
Length	3.08m
Width	1.02m
Height	0.85m
Weight	0.12t
6m fixed jib insert	×3
Length	6.08m
Width	1.02m
Height	0.85m
Weight	0.28t
Boom extension	×1
Length	1.12m
Width	0.45m
Height	0.82m
Weight	0.21t



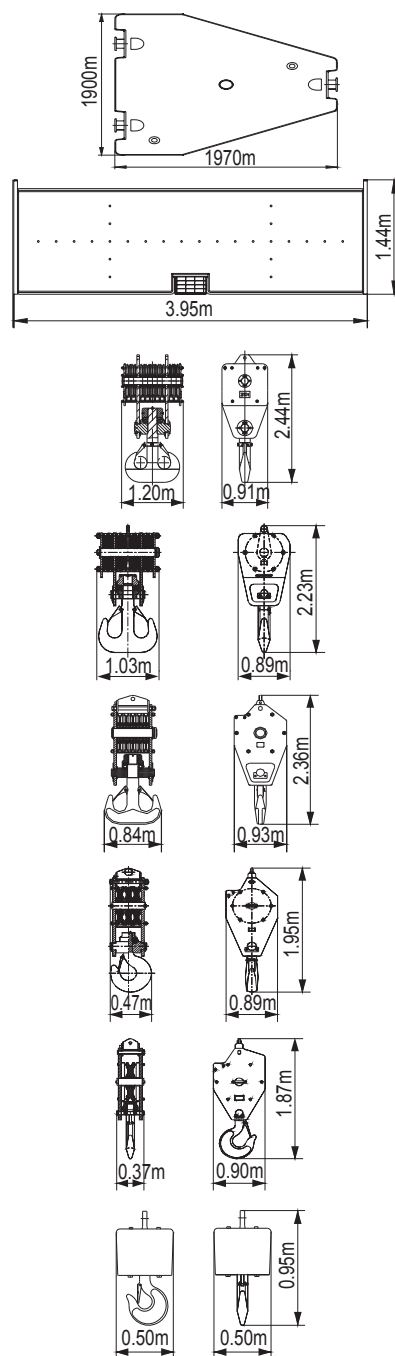
TRANSPORT DIMENSIONS

Fixed jib strut	×1
Length	5.46m
Width	1.05m
Height	0.60m
Weight	0.52t
Tower operating condition combination	×1
Length	10.81m
Width	1.79m
Height	2.87m
Weight	7.1t
Luffing jib tip (including boom extension)	×1
Length	7.02m
Width	1.50m
Height	1.42m
Weight	1.31t
6m luffing jib	×2
Length	6.11m
Width	1.50m
Height	1.31m
Weight	0.55t
12m luffing jib	×2
Length	12.08m
Width	1.50m
Height	1.31m
Weight	1.2t
Counterweight tray	×1
Length	6.14m
Width	1.90m
Height	0.62m
Weight	14t
5.5t counterweight	×8
Length	1.97m
Width	1.90m
Height	0.69m
Weight	5.5t

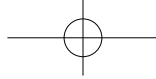


TRANSPORT DIMENSIONS

3t counterweight	×2
Length	1.97m
Width	1.90m
Height	0.35m
Weight	3.0t
Central counterweight	×2
Length	3.95m
Width	1.44m
Height	0.73m
Weight	10.0t
200t lifting hook	×1
Length	0.91m
Width	1.20m
Height	2.44m
Weight	3.83 t
150t lifting hook	×1
Length	0.89m
Width	1.03m
Height	2.23m
Weight	2.80 t
100t lifting hook	×1
Length	0.93m
Width	0.84m
Height	2.36m
Weight	1.99 t
50t hook block	×1
Length	0.89m
Width	0.47m
Height	1.95m
Weight	1.06t
25t ball hook	×1
Length	0.90m
Width	0.37m
Height	1.87m
Weight	0.79 t
13.5t hook block	×1
Length	0.50m
Width	050m
Height	0.95m
Weight	0.53 t



Notes: 1.The transport dimensions of the parts are marked on schematic diagrams, but not drawn by scale; the dimensions indicated are the design values excluding package.
2.Tiny difference(±2%)

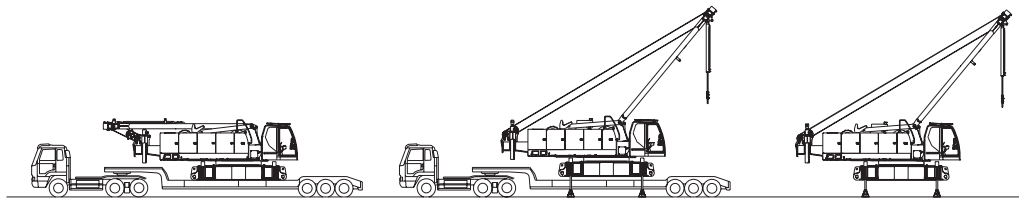


ASSEMBLY DIAGRAM

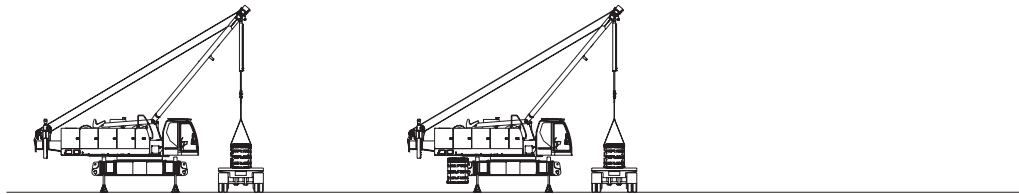
The crane is provided with functions of self-assembly/disassembly, e.g. crawler traveling tracks, central counterweight, rear counterweight of basic machine (optional) and base can all be self-assembled/disassembled. In the process of assembly, the crawler traveling tracks shall be first

assembled, then central counterweight, rear counterweight of basic machine and base. Reverse the order in the process of disassembly, and see the figure below for specific operation process (as for disassembly, reverse the procedure).

1) Installation of crawler



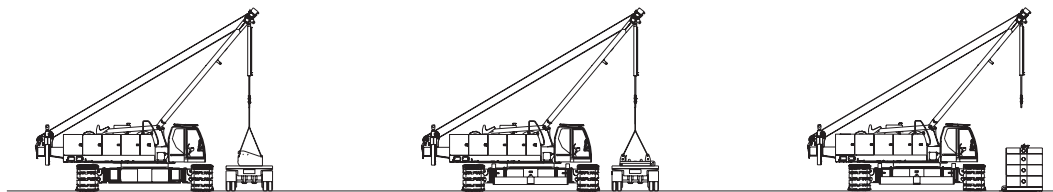
Step 1 Unloading



Step 1 Assemble left crawler

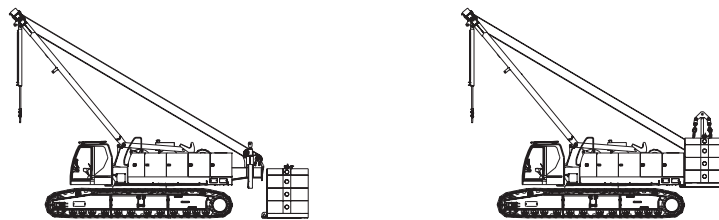
Step 2 Assemble right crawler

2) Installation of counterweight

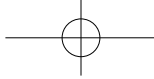


Step 1 Assemble central counterweight

Step 2 Assemble rear counterweight of basic machine

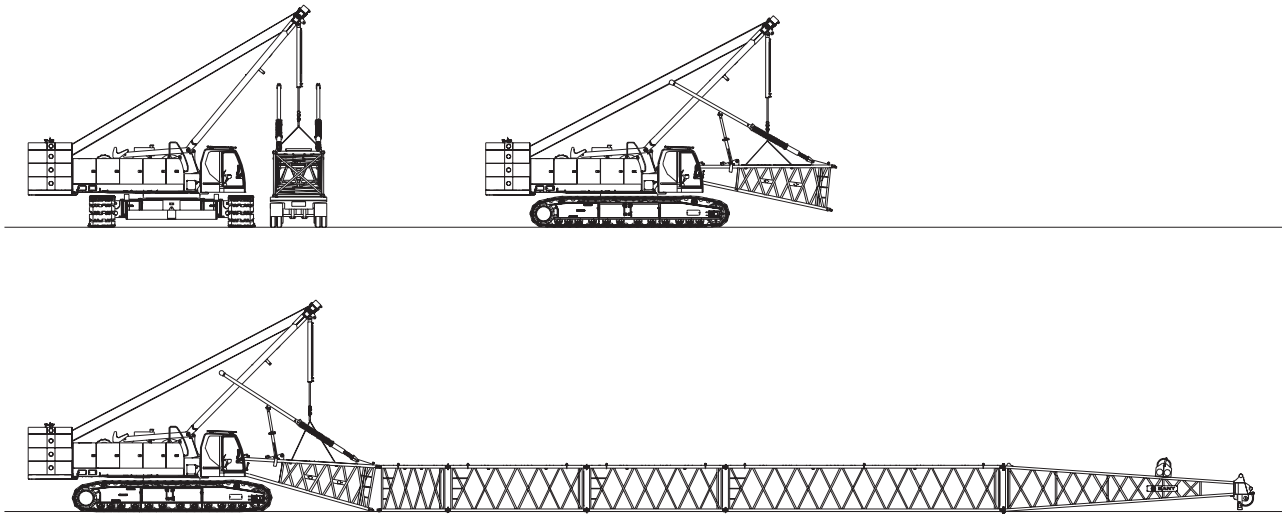


Step 3 Assemble rear counterweight of basic machine



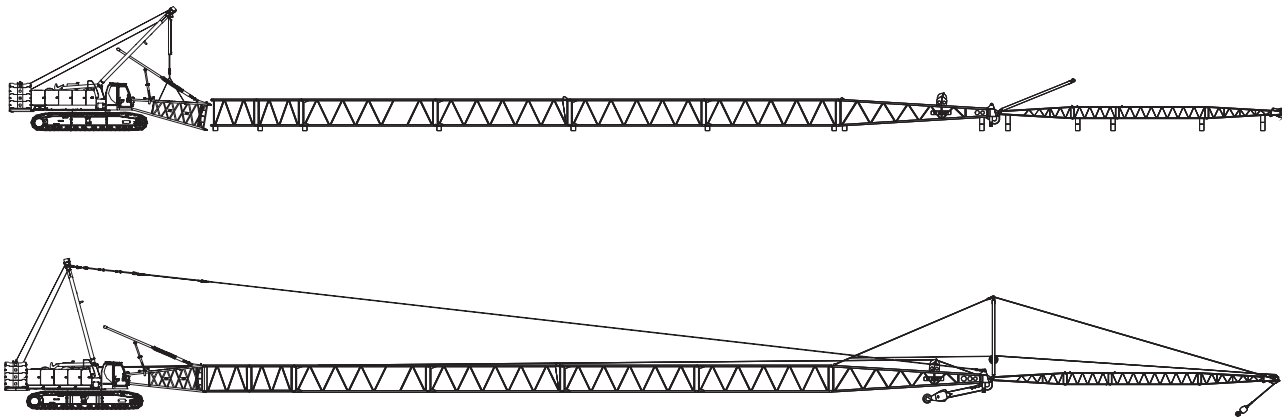
ASSEMBLY DIAGRAM

3) Installation of boom base

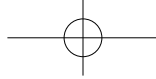


Assembly diagram of boom base

4) Installation of fixed jib

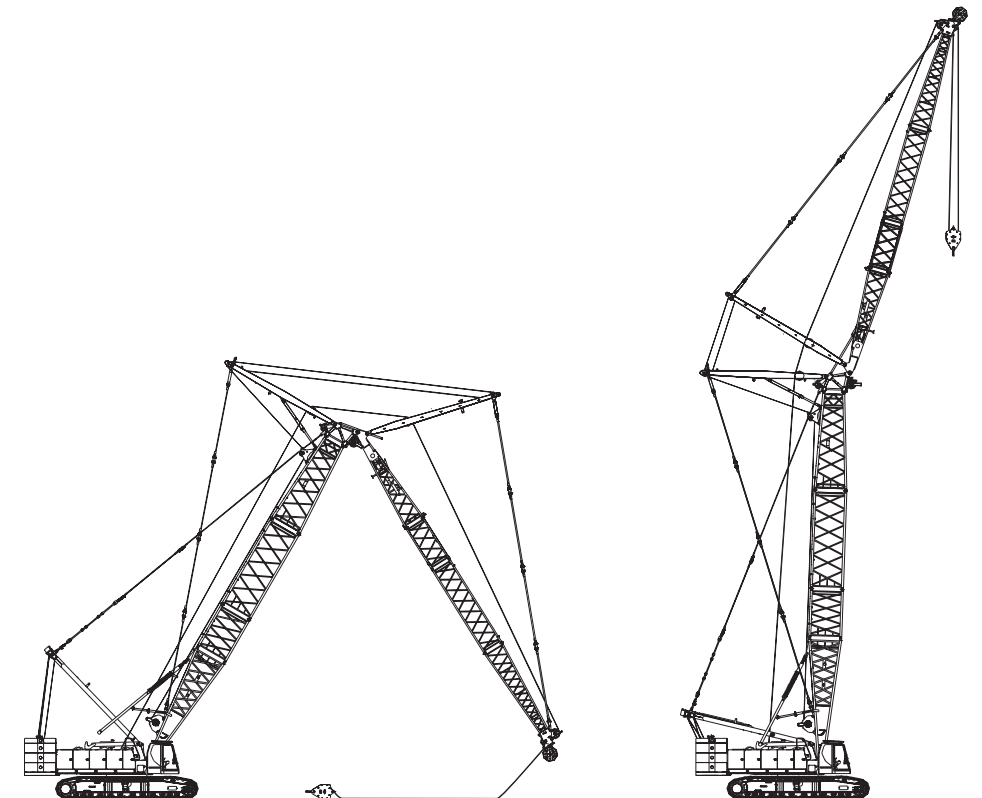
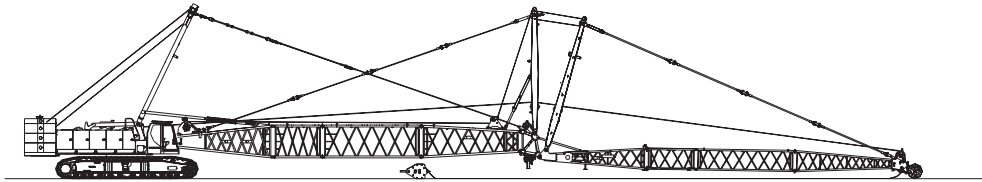
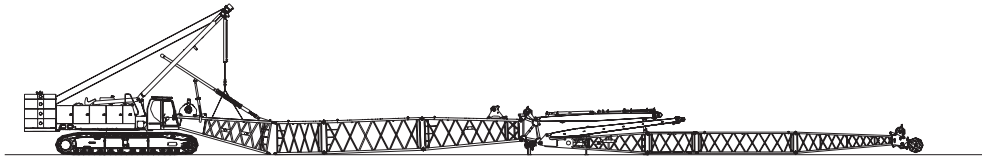


Assembly diagram of fixed jib



ASSEMBLY DIAGRAM

5) Installation of luffing jib



Assembly diagram of luffing jib



SCC1800

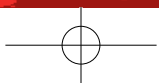
Upperworks 15

Lowerworks 17

Operation Device 18

Safety Devices 19

Table for Parameters of Main Mechanisms 22



UPPERWORKS

1) Engine

- Imported Cummins QSL9 .
- Rated power / speed: 242KW/2100rpm.
- Maximum torque: 1424N.M/1500rpm.
- Emission standards: Tier III.
- Air filter: double filtration system composed of air pre-filter and air filter.
- Fuel tank: capacity of 400LI.

2) Hydraulic System

- Configuration of hydraulic system: adopt the world-renowned brands of hydraulic systems, including the main pump, main valve, control handle and motor reducer. It is efficient, energy saving, stable and reliable.
- It has excellent micro-rotation and performance improvement, load sensing; limit load regulation makes the operation more stable.
- Adopt controlled hydraulic oil cooling system independently.

3) Main and Aux. Hoist Drums

- Main and auxiliary lifting mechanism are independently driven; winding drum is driven directly by winding motor; the drum handle can rotate towards both directions i.e. hoisting and lowering. Adopt the steel wire of global well-known brands, which are more reliable and durable.
- Global brands motor reducer with higher reliability.
- The primary winch hook is freely down; the primary and vice winch hooks are to be freely down at the same time.
- The fold line winding drum design can ensure that multi-layer winding rope without mess.

NO.1 Main hoisting winch

Drum diameter	596mm
Rope speed of the outermost working layer	0~125m/min
Diameter of wire rope	26mm
Wire rope length of main winch	390m
Rated single rope tension	13.4t
Specification of wire rope	Right-hand rotary concurrent twist

NO.2 Auxiliary hoisting winch

Diameter of steel wire	596mm
Wire speed of outer operating wires	0~125m/min
Wire rope diameter	26mm
Steel wire length of auxiliary lifting mechanism	300m
Rated tension of single wire	13.4t
Specification of steel wire	Right-hand rotary concurrent twist

4) Swing Mechanism

- External gear compound swing can rotate 360° .
- Global brands motor reducer with higher reliability.
- Revolution lock: hydraulic control lock adjust pin; upper works can be locked when work is finished or in transport.
- Free wheels pin: In hoisting, boom center and load center are not on the same level due to wrong judgment; free wheels pin can automatically arrange upper works to avoid movement of load after being hoisted.
- Revolution support: triple row ball Q series revolution support.....
- Swing speed: 0-2.0r/min.

5) Main and Auxiliary Luffing Mechanisms

The main luffing mechanism adopts tandem druml.

NO.3 Main luffing winch

Drum diameter	460mm
Wire speed of outer operating wires	(0~24)×2 m/min
Wire diameter	20mm
Wire length of main luffing winch	320m
Rated single rope tension	9.73t
Specification of wire	Right-rotary alternating twist

NO.4 Auxiliary luffing winch

Drum diameter	470mm
Wire speed of outer operating wires	0~24m/min
Wire diameter	20mm
Wire length of auxiliary luffing winch	240m
Rated single rope tension	6.15t
Specification of wire	Right-rotary alternating twist

6) Counterweight

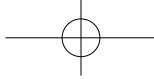
Name	Q' ty	Single piece weight (kg)	Total weight (kg)
Counterweight block	8	5500	44000
Counterweight block	2	3000	6000
Tray	1	14000	14000
Central counterweight Block	2	10000	20000
Total weight of all counterweights Block (kg)			84000

7) Cab

- Newly designed sliding-door cab, large area windows; with near and far beam headlamp, rear-view mirrors and more open vision; Installed with heating and cool air conditioning, MP3 player; seats, control handle; control button layout designed according to ergonomic; thus operation is more comfortable.
- Four head lights provide illumination for long and near distances.
- Large glass window with rearview mirror makes the field of vision broader.
- Armrest: installed, with the manipulation handle, all electrical switches and ignition lock on left, right arm and vice control box. Armrest can be adjusted with the seat.
- The driver's cab can be adjusted according to the operating needs, capable of realizing 20° pitching upward or downward, and it can be rotated to the right front of platform.
- The pitching cab broadens the operation vision of the driver, thus improving the safety in operation; it can be rotated and thus reduces the transportation width.

8) Control Operation

- All actions of the crawler travel unit are controlled by the traveling pedal (control lever). The left traveling pedal (control lever) drives the left crawler while the right traveling pedal (control lever) drives the right crawler. The engine speed is controlled by the foot throttle or hand throttle and the start switch is located on the right armrest box. The control handles of main luffing and main winch are located on the right armrest box while the control handles of auxiliary winch, auxiliary luffing/swing control handles on the left armrest box. To the right front of seat is the auxiliary control box, on the control panel of which all switches are operated manually to realize corresponding functions.
- The operation of traveling pedal (control lever) has the function of automatic direction adjustment, that is, the operation direction is always the front direction of the operator.



LOWERWORKS

1) Crawler Travel

All crawler frames are equipped with independent traveling drive. The hydraulic traveling motor drives planet gear reducer to achieve independent traveling through the transmission of the driving wheel.

2) Travelling Brake

Built-in, wet, spring-loaded normal-engaged disk brake applies braking through spring force and release braking through oil pressure.

3) Track Shoes

The crawler units at the left and right have 112 crawler shoes totally, each 1,100mm wide. The density of crawler shoe can be adjusted via the hydraulic jack, and an ideal density can be achieved through adjusting the position of adjusting gasket.

4) Chassis

- The hydraulic cylinder drives the power pin to connect with crawler frame, easy for assembly and disassembly. A frame structure welded with high-strength steel .
- is connected with the crawler frame by hydraulic power pin under the control of remote wired controller, safe, convenient and reliable.
- The large chassis design obviously improves the stability of the whole machine.
- Counterweights of lowerworks weigh 20t, 10t respectively at the front and back, and they may be self assembled/disassembled.

5) Travelling speed

- Low speed: 0.6 km/h
- High speed: 1.2 km/h



OPERATION DEVICE

1) Boom

- Truss structures;the main chord adopts high strength structure steel;each section is connected with pins.
- Standard boom sections include: base 7.5m, tip 8.5m, insert 3m×1, insert 6m×3, and insert 12m×4.
- The boom length is between the basic boom 16m and max. length 85m, each 3m as a length of increase or decrease.

2) Luffing Jib

- Truss structures;the main chord adopts high strength structure steel;each section is connected with pins.
- Luffing jib sections include: tip 6.5m, base 6.5m, insert 3m×1, insert 6m×2, and insert 12m×2; it can mounted onto the boom of 23m~53m long. The luffing jib available ranges 22m~52m long.

3) Heavy-duty Boom

- The boom is the truss structure with uniform section in the middle and variable sections at both ends. It is welded with steel tubes, and the top and root segment of arm support are reinforced with steel plates, which is favorable to transmit loads.
- Heavy-duty boom sections include: base 7.5m, reducing arm 6m, arm head 0.5m, insert 3m×1, insert 6m×3, and insert 12m×3.
- The heavy-duty boom length is between the basic boom 23m and the maximum length 71m, taking 3m as a step.

4) Fixed jib

- Truss structures; the main chord adopts high strength structure steel; each section is connected with pins.
- The fixed jib can be mounted onto the boom with the length of 28m~70m, including tip 5m, base 5m, insert (length x quantity): 3m×1, 6m×3; and available jibs are respectively 13m, 19m, 25m, and 31m long.
- Fully extended boom + fully extended jib: 70m + 31m.

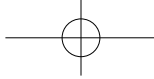
5) Boom extension

In a welded structure, it is jointed with boom through pin roll for auxiliary hook operation.

6) Hooks

- Standard configuration: 200t lifting hook
150t lifting hook
50t lifting hook
13.5t lifting hook
- Optional: 25t lifting hook
100t lifting hook

Notes: The above operating devices are safe configuration: order contract shall prevail for specific configuration.



SAFETY DEVICES

1) Load Moment Indicator (LMI)

A completely separate and secure computer-controlled operating system; LMI can automatically detect the load of cranes and the angle of lifting arm and show its rated load and actual load, working radius and boom angle. Functions: can real-time display rated load, actual load, working radius and boom angle, height and other data at current status of the crane. Automatically detect luffing angle transfinite and load transfinite and other dynamic data, and give real-time alarm and limit movement.

2) Three-color load warning light

The light works according to the load moment limiter working conditions, it also reflects the safety condition of loading.

3) Anti-pulley equipments of primary and vice winch

Composed of limit switch, hammer etc. on jib to prevent excessive promotion of hook block. When the lifting hook raises to a certain height, limit switch will work, the buzzer on the control panel will alarm, meanwhile the failure indicator blinks and automatically stop the lifting operation of hook block.

4) Anti over-discharge equipments of primary and vice hook

It is composed of movement trigger device and proximity switches installed in roll to prevent wire rope from being over-decentralized. When the wire rope is over-decentralized near the last three hoops, limit switch will work, the system will alarm through buzzer, alarm information will be displayed in instrument cluster and automatically stop the decentralization movement of hoist.

5) Switch between installation/operation mode

In installation mode, anti roll device, lifting boom inhibiting device, torque limiter do not work to facilitate crane installation. In operation mode, all the safety limit devices are working.

6) One-key Lifted Main and Auxiliary Luffing Masts

The main and auxiliary luffing masts are lifted and dropped in synchronization with the rolling-out and rolling-in of main and auxiliary luffing winches.

7) Boom inhibiting device

The device is made by steel tube, compressive force made by spring can effectively stop the boom from inhibition. There is a mechanical anti-tilting backwards device on luffing jib mast which can also prohibit the mast tilt.

8) Anti-tilting backwards device of boom

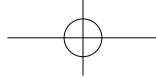
The anti-tilting backwards device works when the luffing jib and boom extension angle is 10° .

9) Winch Mechanism Brake

All winch brakes are spring-loaded normal-engaged disk brakes, which provide a big braking force and are safe, reliable, free of maintenance, and durable.

10) CCTV Monitoring System

With high-definition camera, the operator in the driver's cab may have detection the real-time state of luffing reel, hoisting winch reel and crane tail.



11) Self-diagnosis System

The system may automatically generate fault and alarm information, check the electrification of in-service electric circuit, and help troubleshoot electric fault.

12) Navigation light

Installed on the top of arm rest; provide instructions for boom at height.

13) Anemometer

Installed at the top of boom supporter for real-time monitoring of wind speed; and transmit the data to driver's cab and display on monitor.

14) Level gauge

The bubble gradiometer is lock as the benchmark of verification, and electronic gradiometer is used for real-time display in high accuracy to indicate the inclined angle of crane and the situation of safe operation ground of crane.

15) Boom Angle Indicator

Pendulum-type angle indicator is secured onto the boom base on the side near the driver's cab.

16) Hook Clamp

Each kind of hook block is equipped with a clamp plate to prevent the wire rope from falling off.

17) Real-time Display of Ground Pressure (Optional)

The following information is instantly calculated according the operation state of crane, distribution trend of pressure, effective ground contact length, average and max. ground pressure from crawler to ground, ground pressure at every key point, and eccentricity of crane gravity center, etc.

18) Operation Alarm

Before performing any operation to the crane, press the horn to give alarms, indicating that the crane will be operated and reminding others of safety.

19) Traveling or Swing Hoist

During traveling or swing, the alarming light flashes and swing buzzer tweets.

20) Function Lock

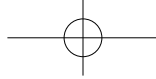
- If the function locking joystick is not fixed in position, all other functional control levers will not function, so as to prevent misoperation due to knocks of body in getting on and off the crane.
- When the operator is not at seat, all manipulations will be out of function, so as to avoid some misoperations effectively.

21) Automatic Reversing Travel

Whatever relative positions superworks and lowerworks are at, when the truck will travel forward when the traveling pedal is pushed forward and it will travel backward when the pedal is pulled backward.

22) Electronic Monitor

It can display the water temperature, fuel quantity, accumulated and present operating duration, oil pressure, engine speed, charging status of battery, and voltage. It is also equipped with main winch over roll-out alarm, auxiliary winch over roll-out alarm, and boom limit alarm; upon an alarm situation, the alarming light will turn on and the buzzer tweet.



23) Engine Power Limit Load Adjustment and Stalling Protection

Have real-time monitoring over the output power of engine and prevent the engine from stalling through power load adjustment.

24) Monitoring Display

A high-precision and TFT display is used as the indication terminal for electric human-machine dialogues of the whole machine, to indicate the operating parameters of engine system and hydraulic system, parameter state of every detection point and output point of the electric system, and the real-time parameters of operating conditions under all circumstances.

25) Emergency Stop Function

In emergency, press the emergency stop button to cut off power supply of the machine and stop all the operations.

26) Lightning Protection Device (Optional)

Including lightning protection grounding devices and surge protection devices; it can effectively prevent damage to electrical components and operators under lightning strikes.

27) Remote Monitoring System (optional)

It may achieve the functions of GPS satellite positioning, GPRS data transmission, query and collection of equipment service states, and remote fault diagnosis, etc.

28) Lighting

Equipped with winch lights, lower beam in front of driver, front adjustable high beam, the lighting lamps in driver's cab, lighting equipment for night; these can improve the visibility in construction.

29) Rearview Mirror

Set respectively on the right of the driver's cab and armrest in front of hood for the convenience of monitoring the rear status of the machine.

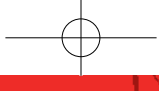
TABLE FOR PARAMETERS OF MAIN MECHANISMS

Counterweight Parameters

Name	Q' ty	Length (m)	Width (m)	Height (m)	Weight of single piece (t)
Counterweight block	8	1.97	1.90	0.69	5.5
Counterweight block	2	1.97	1.90	0.35	3
Counterweight tray	1	6.14	1.90	0.62	14
Central counterweight	2	3.95	1.44	0.73	10

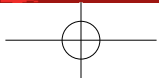
Hook Parameters

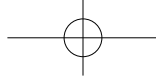
Hook block Name	Max. hoisting capacity	Q' ty	Number of pulleys	Multiplying factor	Weight of single piece (t)
200t lifting hook	200t	1	9	16	3.83
150t lifting hook	150t	1	7	12	2.80
100t lifting hook	100t	1	5	8	1.99
50t ball hook	50t	1	3	4	1.06
25t lifting hook	25t	1	1	2	0.79
13.5t lifting hook	13.5t	1	0	1	0.53



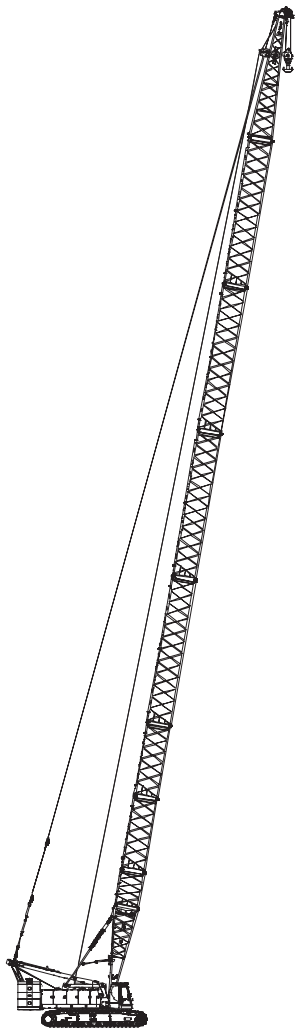
SCC1800

24	Operating Condition Combination
26	H _L Operating Condition of Light-duty Boom
31	H Operating Condition of Heavy-duty Boom
35	LJ Operating Condition of Luffing Jib
41	FJ Operating Condition of Fixed Jib

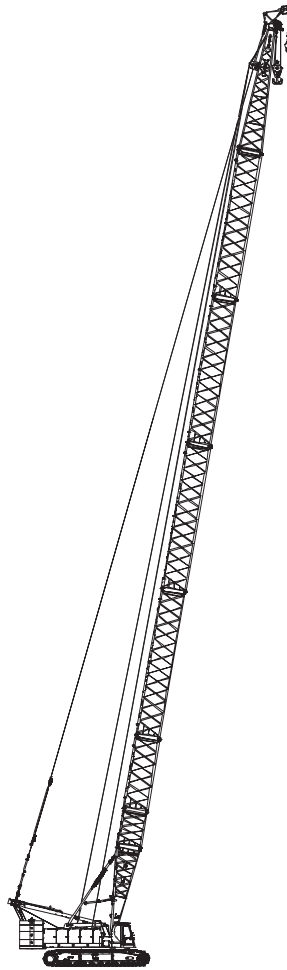




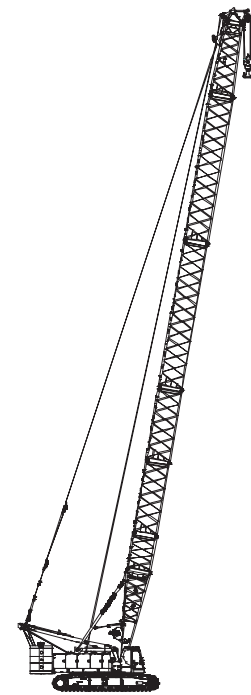
OPERATION CONDITION COMBINATION



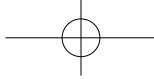
Light-duty Boom H_L
operating conditions
(16~85)m
(64+20)t



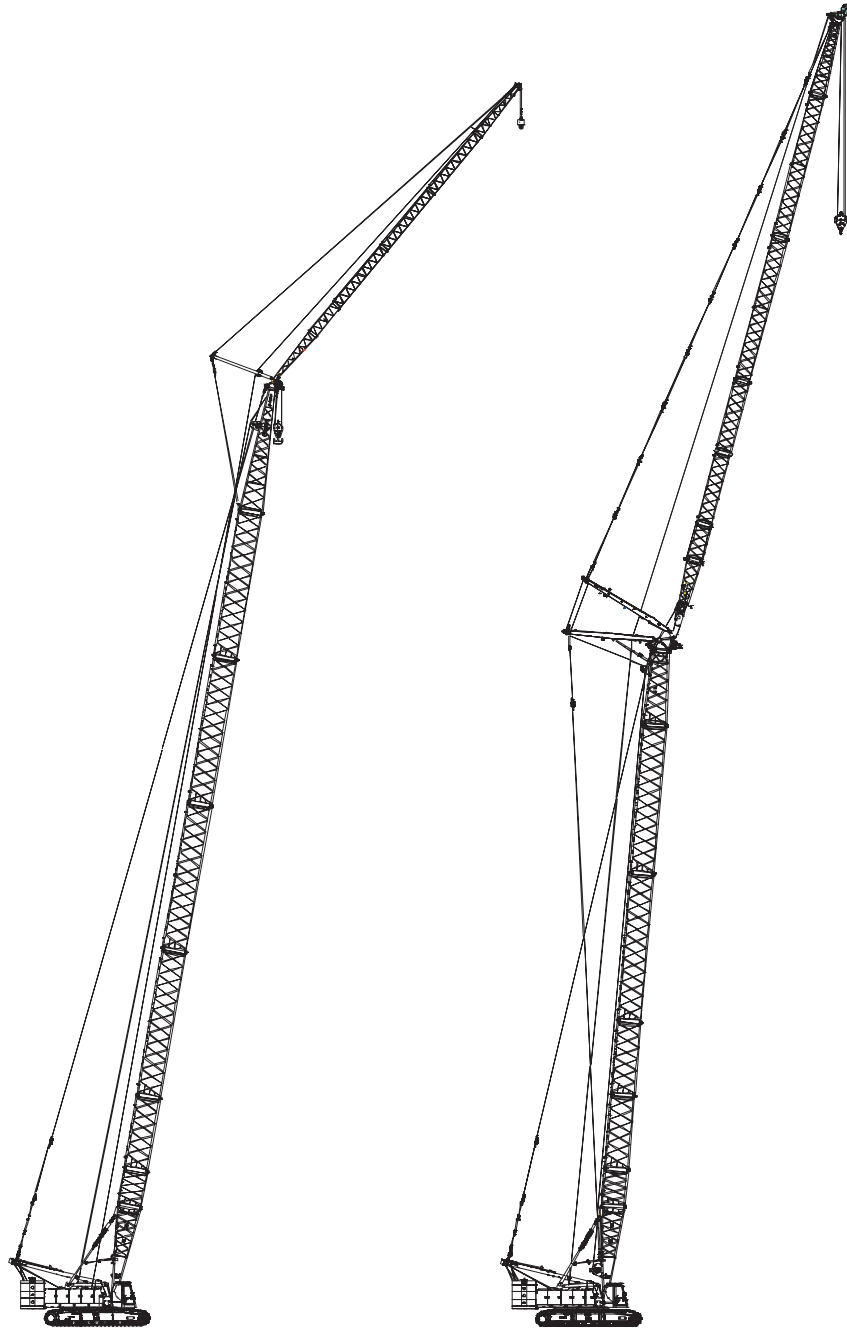
Light-duty boom extension
H_C operating conditions
(16~85)m
(64+20)t



Heavy-duty boom H
operating conditions
(23~71)m
(64+20)t

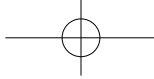


OPERATION CONDITION COMBINATION



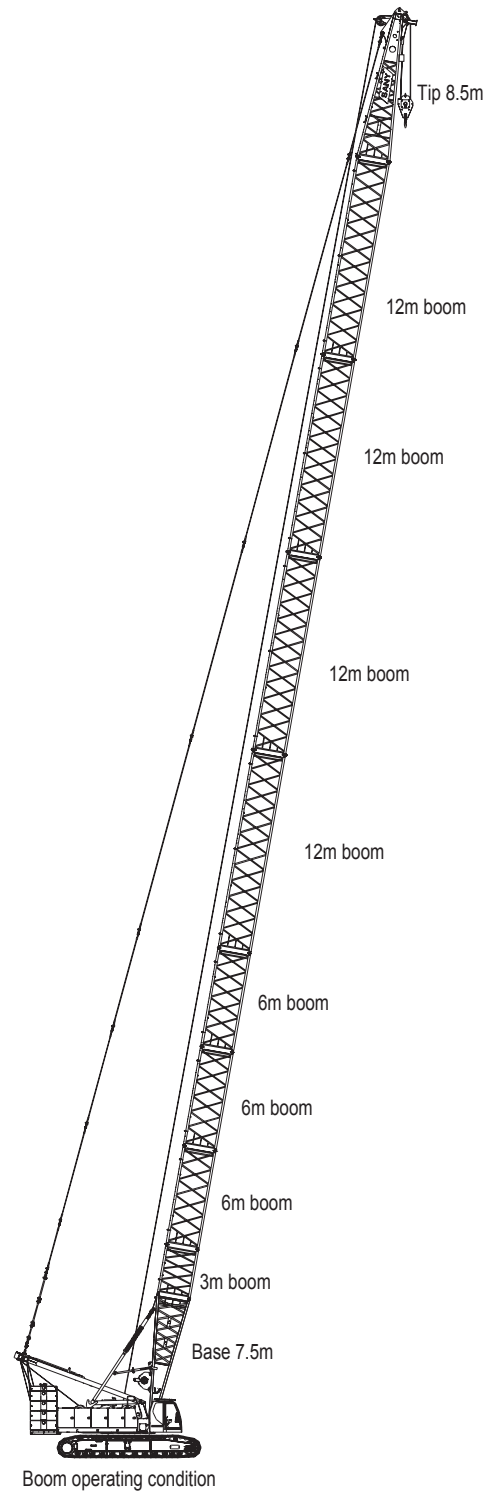
Fixed jib FJ operating conditions
(70+31)m
(64+20)t

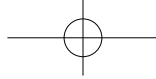
Luffing jib LJ operating condition
(53+52)m
(64+50)t



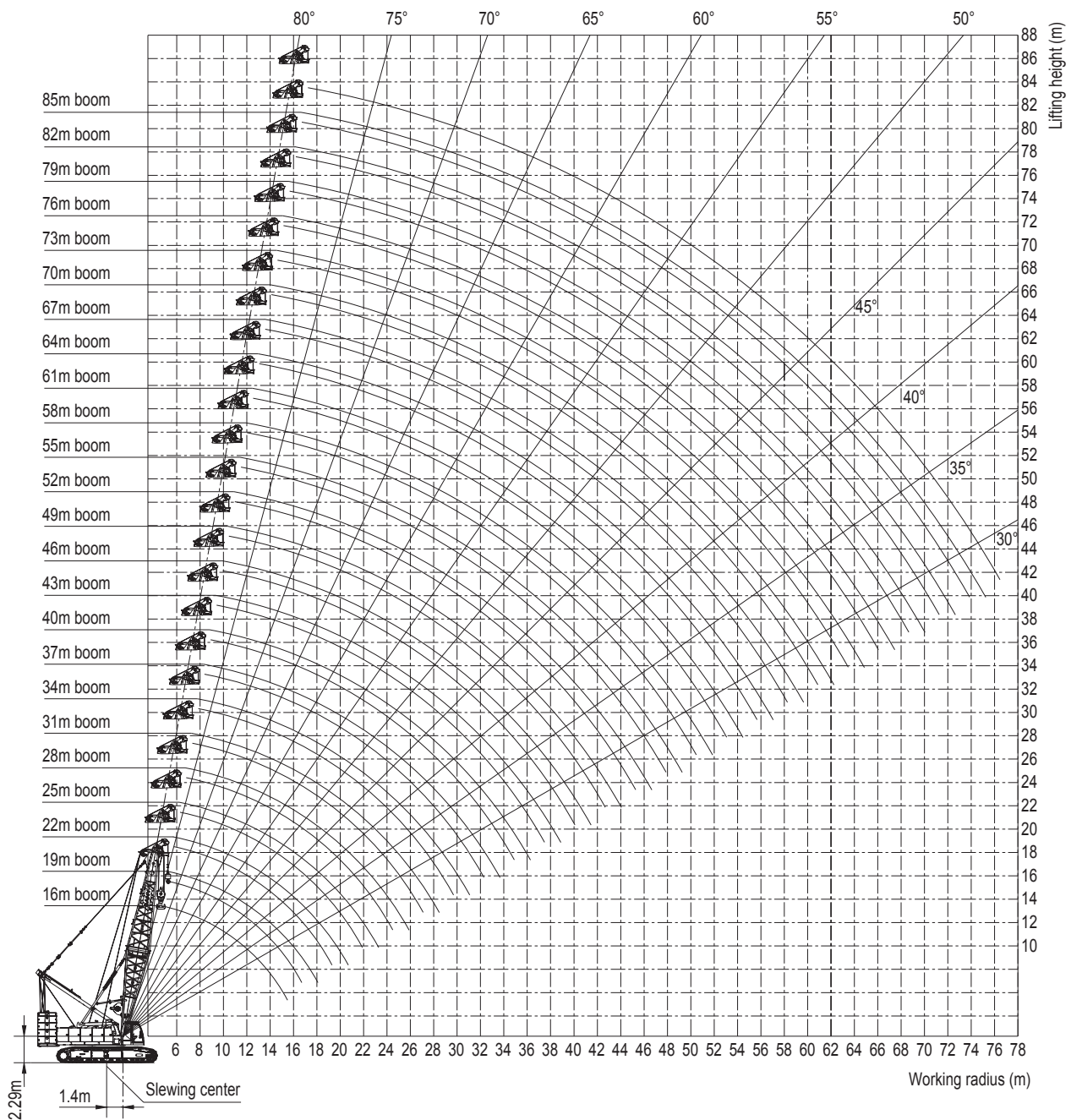
H_L LIGHT-DUTY OPERATING CONDITIONS

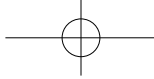
Boom length	Insert		
	m	3 m	6 m
16	-	-	-
19	1	-	-
22	-	1	-
25	1	1	-
28	-	2	-
31	1	2	-
34	-	1	1
37	1	1	1
40	-	2	1
43	1	2	1
46	-	1	2
49	1	1	2
52	-	2	2
55	1	2	2
58	-	1	3
61	1	1	3
64	-	2	3
67	1	2	3
70	-	1	4
73	1	1	4
76	-	2	4
79	1	2	4
82	-	3	4
85	1	3	4





H_L LIGHT-DUTY RANGE DIAGRAM





H_L LIGHT-DUTY RANGE DIAGRAM

Description:

1. The rated load indicated in the table is the max. permissible value for objects hoisted slowly and stably on a level and hard ground when the crane does not travel.
2. The rated load indicated in the table is the value computed by taking 75% of the tipover load when the wind speed is below 9.8m/s.
3. All values in the load chart are suitable for 360° swing.
4. The boom that can be assembled is 16~85m long.

The value of load indicated is in the unit of t. The actual lifting capacity is the value obtained by deducting the weight of hoisting tools (e.g. main and auxiliary hook blocks) from the rated lifting capacity indicated in the table.

The weight of hook block is shown as below:

- 200t hook block – 3.83t
- 150t hook block – 2.80t
- 100t hook block – 1.99t
- 50t hook block – 1.06t
- 25t hook block – 0.79t
- 13.5t hook block – 0.53t

H_L LIGHT-DUTY RANGE DIAGRAM

SCC 1800 Crawler Crane Light-duty load charts 1/2

Unit: (t)

Radius(m)	Arm length/m												
	16	19	22	25	28	31	34	37	40	43	46	49	
5	180.0/4.6	161.6/5.1	--	--	--	--	--	--	--	--	--	--	
6	161.0	151.0	141.1/5.7	133.5/6.2	--	--	--	--	--	--	--	--	
7	145.9	138.9	135.5	132.0	130/6.7	120/7.2	--	--	--	--	--	--	
8	132.0	132.0	130.0	129.0	125.0	120.0	109.7/7.8	97.9/8.4	--	--	--	--	
9	114.0	114.0	114.0	111.0	108.0	105.0	102.0	97.9	96.5/8.8	86.5/9.3	--	--	
10	97.4	97.4	97.4	97.4	95.3	92.7	90.4	88.0	85.7	83.5	74.9/9.8	73.2/10.4	
11	84.5	84.5	84.5	84.5	84.5	82.7	80.9	78.9	77.0	75.1	73.5	71.7	
12	74.5	74.5	74.5	74.5	74.5	74.5	73.1	71.4	69.8	68.2	66.8	65.3	
13	66.5	66.5	66.5	66.5	66.5	66.5	66.5	65.2	63.7	62.3	61.1	59.8	
14	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.8	58.6	57.3	56.3	55.1
15	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	54.1	53.0	52.1	51.0
16	50.5/15.5	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	49.9	49.2	48.4	47.4
17	--	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	45.8	45.2	44.3
18	--	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	42.5	42.3	42.3	41.4
19	--	--	39.7	39.7	39.7	39.7	39.7	39.7	39.6	39.5	39.3	39.3	38.9
20	--	--	37.1/20.7	37.1	37.1	37.0	37.0	37.0	37.0	36.8	36.7	36.6	36.5
22	--	--	--	32.6	32.6	32.5	32.5	32.5	32.5	32.3	32.2	32.1	32.0
24	--	--	--	30/23.3	29.0	28.9	28.9	28.8	28.7	28.5	28.5	28.3	28.3
26	--	--	--	--	25.5/25.9	25.8	25.8	25.8	25.7	25.5	25.5	25.3	25.3
28	--	--	--	--	--	23.3	23.3	23.3	23.2	23.0	23.0	22.8	22.8
30	--	--	--	--	--	22.6/28.5	21.3	21.1	21.0	20.8	20.8	20.6	20.6
32	--	--	--	--	--	--	20.1/31.1	19.2	19.1	19.0	18.9	18.8	18.8
34	--	--	--	--	--	--	--	17.1/33.7	17.5	17.3	17.3	17.1	17.1
36	--	--	--	--	--	--	--	--	16.0	15.9	15.9	15.7	15.7
38	--	--	--	--	--	--	--	--	15.5/36.3	14.6	14.6	14.4	14.4
40	--	--	--	--	--	--	--	--	--	13.5/38.9	13.5	13.3	13.3
42	--	--	--	--	--	--	--	--	--	--	12.3/41.5	12.3	12.3
44	--	--	--	--	--	--	--	--	--	--	--	11.3	11.3
46	--	--	--	--	--	--	--	--	--	--	--	--	--
48	--	--	--	--	--	--	--	--	--	--	--	--	--
50	--	--	--	--	--	--	--	--	--	--	--	--	--
Counterweight (t)	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20
Multiplying factor	16	14	12	11	11	10	9	8	8	7	6	6	6

- Notes: 1. The actual lifting capacities shown in the table are the values remained after the rated lifting capacities minus all lifting tools (like lifting hook).
 2. The rated lifting capacity indicated in the table is the weight hoisted slowly and stably on a level and hard soil ground when the crane does not travel.
 3. The orange-filled parts in the tables depend on structural strength.

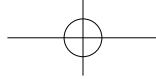
H_L LIGHT-DUTY BOOM RANGE DIAGRAM

SCC 1800 Crawler Crane Light-duty load charts 2/2

Unit:(t)

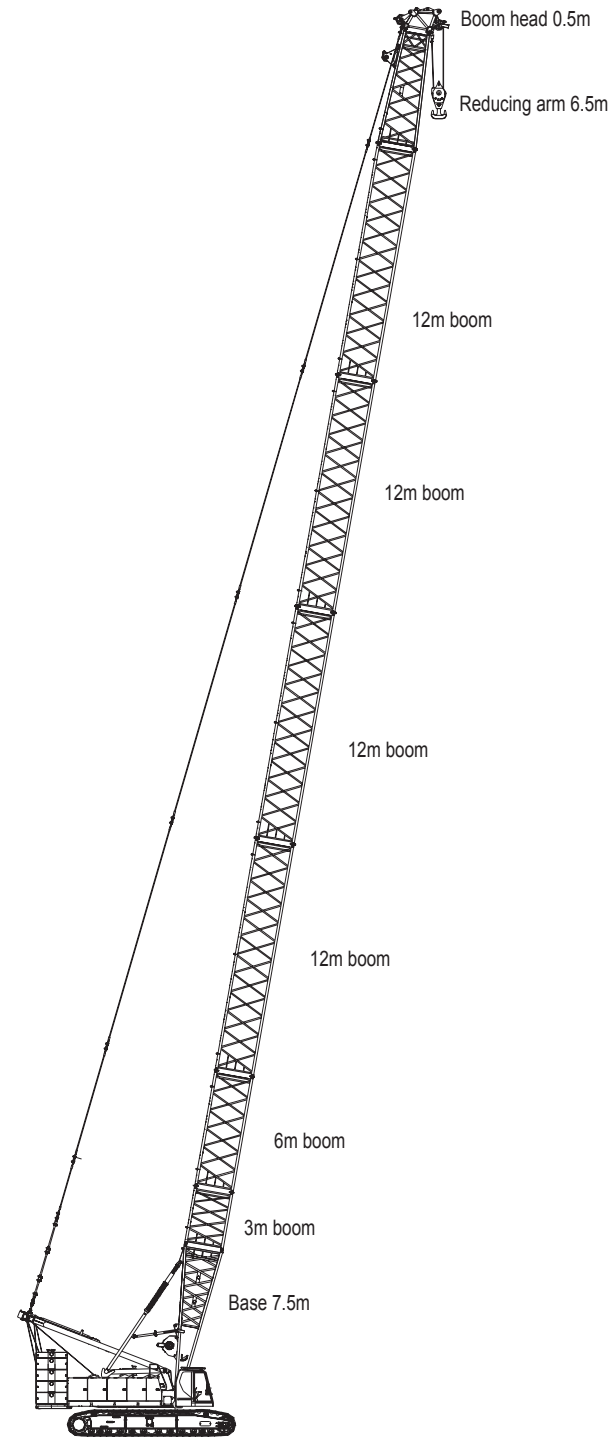
Radius(m)	Arm length/m												
	52	55	58	61	64	67	70	73	76	79	82	85	
11	63/10.9	62.6/11.4	--	--	--	--	--	--	--	--	--	--	
12	63	62.4	61	50.9/12.4	--	--	--	--	--	--	--	--	
13	58.5	57.2	56.1	50.9	50.3	46.1/13.5	--	--	--	--	--	--	
14	53.9	52.8	51.8	50.7	49	45	41.7	38/14.5	--	--	--	--	
15	50.0	48.9	48.1	47.1	46.1	43.9	40.6	37.6	34.6	31.6/15.5	--	--	
16	46.5	45.5	44.7	43.8	43.0	42.1	39.6	36.6	33.9	31.4	29.1/16.1	26.5/16.6	
17	43.4	42.5	41.8	41.0	40.1	39.3	38.6	35.7	33.1	30.6	28.4	26.3	
18	40.7	39.8	39.2	38.4	37.6	36.9	36.2	34.7	32.2	29.7	27.6	25.5	
19	38.2	37.4	36.8	36.1	35.4	34.6	34.0	33.3	31.3	28.9	26.8	24.8	
20	36.0	35.2	34.7	34.0	33.3	32.6	32.1	31.4	30.4	28.1	26.1	24.1	
22	31.8	31.5	31.0	30.3	29.7	29.1	28.6	28.0	27.4	26.6	24.7	22.8	
24	28.2	28.0	27.9	27.3	26.7	26.1	25.7	25.1	24.6	24.1	23.4	21.6	
26	25.1	24.9	24.9	24.7	24.2	23.6	23.2	22.7	22.2	21.7	21.2	20.4	
28	22.6	22.4	22.3	22.1	21.9	21.4	21.1	20.6	20.1	19.6	19.1	18.6	
30	20.4	20.2	20.2	20.0	19.8	19.5	19.2	18.7	18.3	17.8	17.3	16.9	
32	18.6	18.4	18.3	18.1	17.9	17.7	17.5	17.1	16.6	16.2	15.8	15.3	
34	17.0	16.7	16.7	16.5	16.3	16.1	15.9	15.6	15.2	14.8	14.3	13.9	
36	15.5	15.3	15.2	15.0	14.8	14.6	14.5	14.3	13.9	13.5	13.1	12.7	
38	14.3	14.0	14.0	13.8	13.6	13.3	13.2	13.0	12.7	12.3	11.9	11.5	
40	13.1	12.9	12.8	12.6	12.4	12.2	12.1	11.9	11.7	11.3	10.9	10.5	
42	12.1	11.9	11.8	11.6	11.4	11.2	11.1	10.9	10.7	10.3	10.0	9.6	
44	11.2	11.0	10.9	10.7	10.5	10.3	10.2	9.9	9.7	9.5	9.1	8.7	
46	10.3	10.1	10.1	9.8	9.7	9.4	9.3	9.1	8.9	8.7	8.3	7.9	
48	9.8/47.1	9.3	9.3	9.1	8.9	8.7	8.6	8.3	8.1	7.9	7.6	7.2	
50	--	8.5/49.7	8.6	8.4	8.2	8.0	7.9	7.6	7.4	7.2	6.9	6.5	
52	--	--	7.6/51.9	7.7	7.5	7.3	7.2	7.0	6.8	6.6	6.3	5.9	
54	--	--	--	7.1	6.9	6.7	6.6	6.4	6.2	6.0	5.7	5.3	
56	--	--	--	6.8/54.5	6.4	6.2	6.1	5.9	5.6	5.4	5.2	4.8	
58	--	--	--	--	6.0/57.5	5.7	5.6	5.3	5.1	4.9	4.7	4.3	
60	--	--	--	--	--	5.2/69.7	5.1	4.9	4.7	4.4	4.2	3.8	
62	--	--	--	--	--	--	4.6	4.4	4.2	4.0	3.8	3.4	
64	--	--	--	--	--	--	4.3/62.3	4.0	3.8	3.6	3.3	3.0	
66	--	--	--	--	--	--	--	3.5/65	3.4	3.2	2.9	2.6	
68	--	--	--	--	--	--	--	--	2.8/67.5	2.8	2.6	2.2	
70	--	--	--	--	--	--	--	--	--	2.5	2.2	1.9	
72	--	--	--	--	--	--	--	--	--	--	1.9	1.5	
74	--	--	--	--	--	--	--	--	--	--	--	1.2	
Counterweight (t)	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	
Multiplying factor	5	5	5	4	4	4	4	3	3	3	3	2	

- Notes:1.The actual lifting capacities shown in the table are the values remained after the rated lifting capacities minus all lifting tools (like lifting hook).
 2.The rated lifting capacity indicated in the table is the weight hoisted slowly and stably on a level and hard soil ground when the crane does not travel.
 3.The orange-filled parts in the tables depend on structural strength.

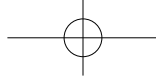


H OPERATING CONDITION OF HEAVY-DUTY BOOM

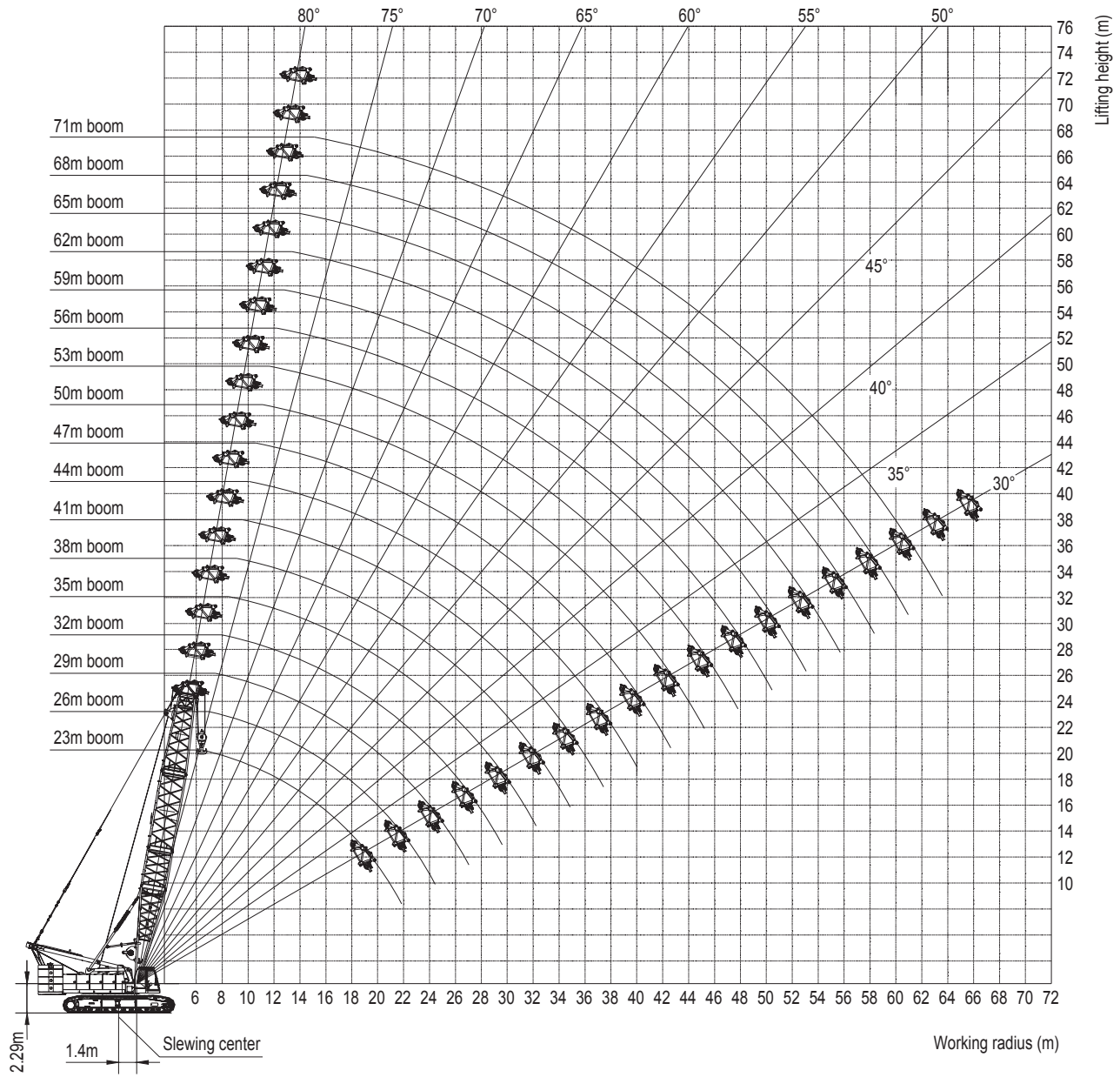
Boom length	Insert		
	m	3 m	6 m
23	1	1	–
26	–	2	–
29	1	2	–
32	–	1	1
35	1	1	1
38	–	2	1
41	1	2	1
44	–	1	2
47	1	1	2
50	–	2	2
53	1	2	2
56	–	1	3
59	1	1	3
62	–	2	3
65	1	2	3
68	–	3	3
71	1	3	3



Operating condition of heavy-duty boom



HEAVY-DUTY RANGE DIAGRAM



HEAVY-DUTY LOAD CHARTS

SCC 1800 Crawler Crane – Heavy-duty load charts 1/2

Boom length 23-71m Rear counterweight 66t Central counterweight 20t

Unit: (t)

Radius(m)	Boom length(m)									
	23	26	29	32	35	38	41	44	47	50
6	100/6.43									
7	100	100/6.95	100/7.47							
8	100	100	100	100	100/8.51					
9	100	100	100	100	100	97.6/9.04	86.5/9.56			
10	97.4	96.8	94.1	91.8	89.3	87	84.7	82/10.08	74.9/10.6	
11	84.5	84.6	83.9	82	80	78	76.1	74.4	72.6	68.6/11.12
12	74.5	74.5	74.4	74	72.3	70.6	69	67.6	66	64.5
13	66.4	66.5	66.4	66.5	65.9	64.4	63	61.8	60.4	59.1
14	59.9	59.9	59.8	60	59.8	59.2	57.9	56.8	55.6	54.5
15	54.4	54.4	54.3	54.5	54.4	54.3	53.5	52.5	51.5	50.4
16	49.8	49.8	49.7	49.9	49.7	49.6	49.4	48.8	47.8	46.9
17	45.8	45.8	45.7	45.9	45.7	45.6	45.5	45.5	44.6	43.7
18	42.3	42.4	42.3	42.4	42.3	42.2	42	42	41.7	40.9
19	39.3	39.4	39.3	39.4	39.3	39.2	39	39	38.8	38.4
20	36.6	36.7	36.6	36.8	36.6	36.5	36.3	36.3	36.1	36
21	34.2	34.3	34.2	34.4	34.3	34.1	34	34	33.8	33.6
22		32.2	32.1	32.3	32.1	32	31.8	31.8	31.6	31.5
23		30.3	30.2	30.4	30.2	30.1	29.9	29.9	29.7	29.6
24		28.5	28.5	28.6	28.5	28.4	28.2	28.2	28	27.8
25			26.9	27.1	26.9	26.8	26.6	26.6	26.4	26.3
26			25.4	25.6	25.5	25.4	25.2	25.2	25	24.8
27				24.3	24.2	24	23.9	23.9	23.7	23.5
28				23.1	22.9	22.8	22.6	22.7	22.5	22.3
29				21.9	21.8	21.7	21.5	21.5	21.3	21.2
30					20.8	20.7	20.5	20.5	20.3	20.1
31					19.8	19.7	19.5	19.5	19.3	19.2
32						18.8	18.6	18.6	18.4	18.3
33						17.9	17.8	17.8	17.6	17.4
34						17.1	17	17	16.8	16.6
35							16.2	16.3	16.1	15.9
36							15.5	15.6	15.4	15.2
37							14.9	14.9	14.7	14.5
38								14.3	14.1	13.9
39								13.7	13.5	13.3
40									12.9	12.8
41									12.4	12.3
42									11.9	11.8
43										11.3
44										10.8
Counterweight (t)	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20
Multiplying factor	8	8	8	8	8	8	7	7	6	6

- Notes:1.The actual lifting capacity must be obtained by deducting the weights of lifting hook, hoisting tools, and wire rope wound around the lifting hook and arm head from the rated lifting capacity in the table.
2.The rated lifting capacity indicated in the table is the weight hoisted slowly and stably on a level and hard soil ground when the crane does not travel.

HEAVY-DUTY LOAD CHARTS

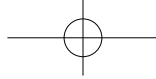
SCC 1800 Crawler Crane – Heavy-duty load charts 2/2

Boom length 23-71m Rear counterweight 64t Central counterweight 20t

Unit: (t)

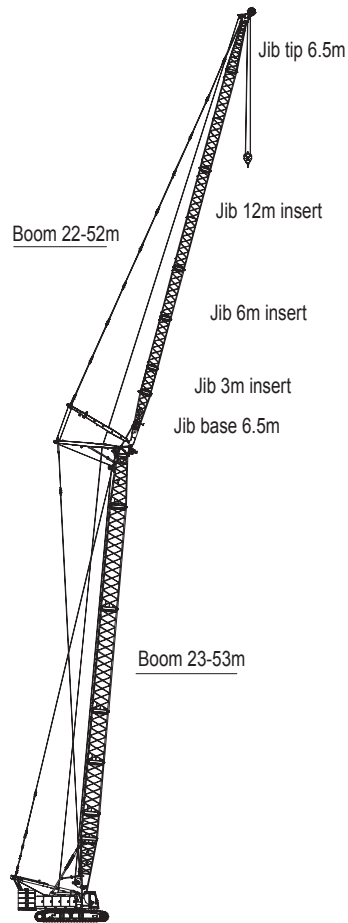
Radius(m)	Boom length(m)						
	53	56	59	62	65	68	71
11	61.5/11.64						
12	60.9	55.2/12.17	49.9/12.69				
13	57.8	54	49.5	44.8/13.21			
14	53.3	52.3	48.2	43.9	40.5/13.73	36.8/14.25	
15	49.4	48.5	47	42.7	39.2	36.1	33.1/14.77
16	45.9	45.1	44.2	41.7	38.2	35.1	32
17	42.8	42.1	41.3	40.5	37.2	34.2	31.2
18	40.1	39.5	38.7	37.9	36.1	33.3	30.2
19	37.7	37.1	36.3	35.6	34.9	32.3	29.4
20	35.5	34.9	34.2	33.5	32.8	31.4	28.5
21	33.4	32.9	32.3	31.6	31	30.5	27.7
22	31.3	31.1	30.5	29.9	29.3	28.8	26.9
23	29.4	29.3	28.9	28.3	27.7	27.2	26.2
24	27.6	27.6	27.3	26.9	26.3	25.8	25.3
25	26	26	25.8	25.5	25	24.5	24
26	24.6	24.5	24.3	24.1	23.7	23.3	22.8
27	23.3	23.2	23	22.8	22.6	22.2	21.7
28	22.1	22	21.8	21.6	21.4	21.1	20.7
29	20.9	20.9	20.7	20.5	20.2	20.1	19.7
30	19.9	19.8	19.6	19.4	19.2	19.1	18.8
31	18.9	18.9	18.7	18.5	18.2	18.1	17.9
32	18	18	17.8	17.6	17.3	17.2	17
33	17.2	17.1	16.9	16.7	16.5	16.4	16.2
34	16.4	16.3	16.1	15.9	15.7	15.6	15.4
35	15.7	15.6	15.4	15.2	15	14.9	14.6
36	15	14.9	14.7	14.5	14.3	14.2	13.9
37	14.3	14.3	14	13.8	13.6	13.5	13.3
38	13.7	13.6	13.4	13.2	13	12.9	12.7
39	13.1	13.1	12.8	12.6	12.4	12.3	12.1
40	12.6	12.5	12.3	12.1	11.9	11.8	11.5
41	12	12	11.8	11.6	11.3	11.2	11
42	11.6	11.5	11.3	11.1	10.8	10.7	10.5
43	11.1	11	10.8	10.6	10.4	10.3	10
44	10.6	10.6	10.4	10.2	9.9	9.8	9.6
45	10.2	10.1	9.9	9.7	9.5	9.4	9.2
46	9.8	9.7	9.5	9.3	9.1	9	8.8
47	9.4	9.3	9.1	8.9	8.7	8.6	8.4
48		9	8.7	8.6	8.3	8.2	8
49		8.6	8.4	8.2	8	7.9	7.6
50		8.2	8	7.8	7.6	7.5	7.3
51			7.7	7.5	7.3	7.2	7
52			7.4	7.2	7	6.9	6.6
53				6.9	6.7	6.6	6.3
54				6.6	6.4	6.3	6
55				6.3	6.1	6	5.8
56					5.8	5.7	5.5
57					5.6	5.5	5.2
58						5.2	5
59						5	4.7
60						4.7	4.5
61							4.3
62							4.1
63							3.8
Counterweight (t)	64+20	64+20	64+20	64+20	64+20	64+20	64+20
Multiplying factor	5	5	4	4	4	3	3

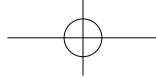
Notes:1.The actual lifting capacity must be obtained by deducting the weights of lifting hook, hoisting tools, and wire rope wound around the lifting hook and arm head from the rated lifting capacity in the table.
 2.The rated lifting capacity indicated in the table is the weight hoisted slowly and stably on a level and hard soil ground when the crane does not travel.



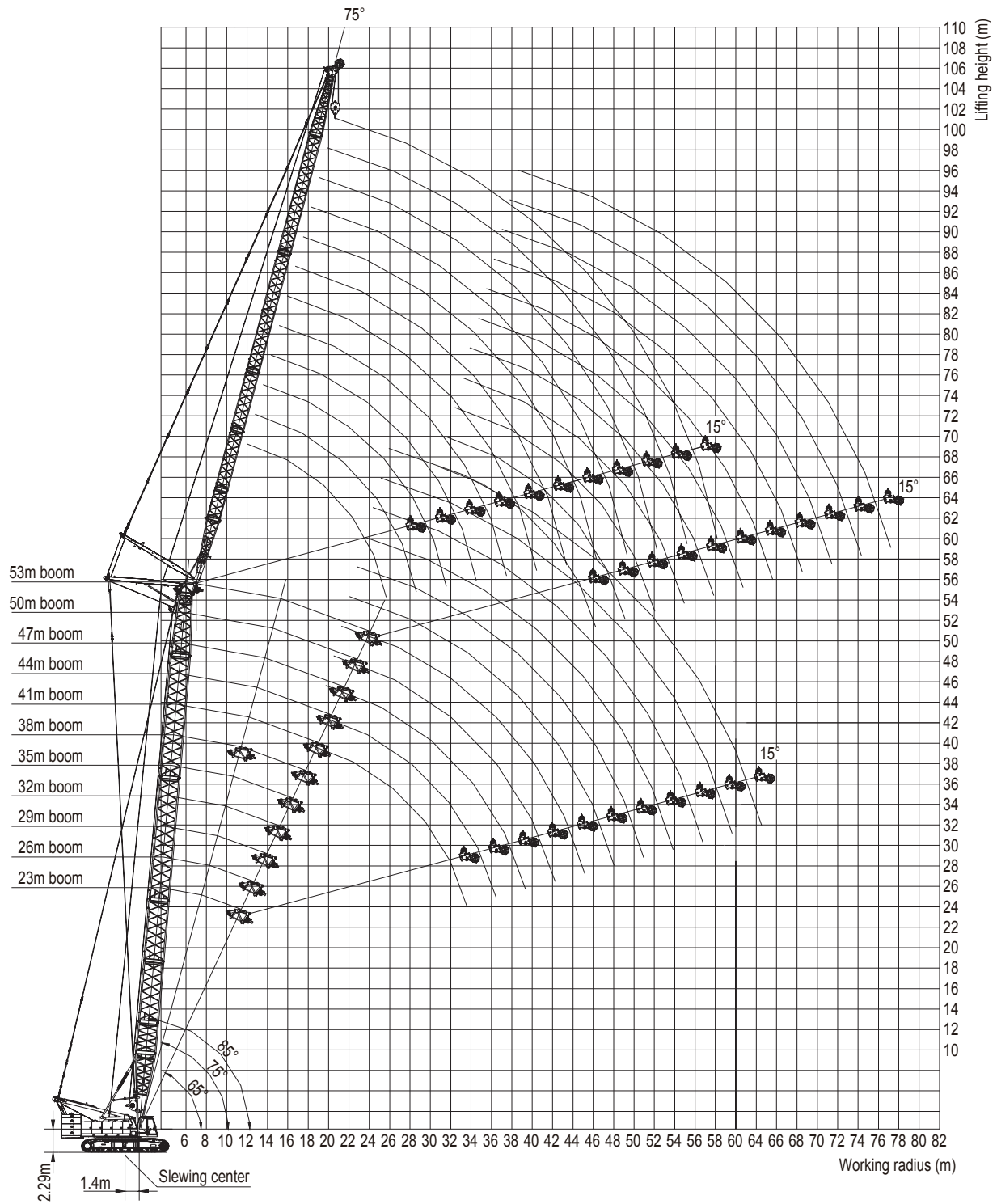
LUFFING JIB OPERATION CONDITION

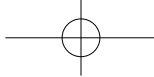
Jib length (m)	Insert			Boom length (m)	Boom angle
	3 m	6 m	12m		
22	1	1	–	23~53	65° ~85°
25	–	2	–	23~53	65° ~85°
31	–	1	1	23~53	65° ~85°
37	–	2	1	23~53	65° ~85°
43	–	1	2	23~53	65° ~85°
52	1	2	2	23~53	65° ~85°





LUFFING JIB RANGE DIAGRAM





LUFFING JIB LOAD CHARTS

Description:

1. The rated load indicated in the table is the max. permissible value for objects hoisted slowly and stably on a level and hard ground when the crane does not travel.
2. The rated load indicated in the table is the value computed by taking 75% of the tipover load when the wind speed is below 9.8m/s. The value of load indicated is in the unit of t. The actual lifting capacity is the value obtained by deducting the weight of hoisting tools (e.g. main and auxiliary hook blocks) from the rated lifting capacity indicated in the table.

The weight of hook block is shown as below:

- 100t hook block – 1.99t
- 50t ball hook – 1.06t
- 25t ball hook – 0.79t
- 13.5t ball hook – 0.53t

3. All values in the load chart are suitable for 360° swing.

LUFFING JIB LOAD CHARTS

SCC 1800 Crawler Crane – Luffing jib load charts

Boom 23m Boom angle 85° Jib length 22-52m Rear counterweight 64t Central counterweight 20t Unit: (t)

Radius(m)	Boom length(m)					
	22	25	31	37	43	52
10	61.3/10.3m	54.3/11.1m				
12	54.8	54.3	54.3/11.9m			
14	48.7	48.7	48.4	35.8/13.4m		
16	42.2	42.0	41.3	35.5	26.2	
18	35.6	35.4	34.7	32.9	24.5	15.6/17.3m
20	30.7	30.6	30.4	29.9	22.6	14.4
22	26.8	26.6	26.5	25.7	21.0	13.3
24	23.7	23.5	23.4	21.8	19.6	12.5
26		21.7	21.1	20.3	18.5	11.6
28		19.8	19.6	19.0	17.3	10.9
30			17.8	17.2	16.4	10.2
32			16.2	15.5	14.5	9.5
34				14.8	13.5	9.0
36				13.5	12.5	8.5
38					11.5	8.0
40					10.5	7.6
42					9.1	7.2
44						6.8
46						6.3
48						6.2
50						5.9
Multiplying factor	5	5	5	3	3	2

SCC 1800 Crawler Crane – Luffing jib load charts

Boom 26m Boom angle 85° Jib length 22-52m Rear counterweight 64t Central counterweight 20t Unit: (t)

Radius(m)	Boom length(m)					
	22	25	31	37	43	52
10	54.8/10.6m					
12	54.8	54.3/11.4m	54.3/12.9m			
14	48.4	48.4	48.4	35.5/15m		
16	41.3	41.3	41.3	35.5	26.2	
18	34.7	35.4	35.4	32.9	24.5	15.5/18.3m
20	30.6	30.4	30.4	30.4	22.6	14.4
22	25.7	25.7	25.7	25.7	21.0	13.3
24	24.4	23.4	23.4	23.4	19.6	12.5
26		21.7	21.1	21.1	18.5	11.6
28		19.6	19.0	19.0	17.3	10.9
30			17.2	17.2	16.4	10.2
32			16.2	16.2	15.5	9.5
34			14.8	14.8	14.7	9.0
36				13.5	13.5	8.5
38				12.5	12.5	8.0
40				11.5	11.5	7.6
42					10.5	7.2
44					9.1	6.8
46					8.1	6.3
48						6.2
50						5.9
52						5.7
54						5.5
Multiplying factor	5	5	5	3	3	2

LUFFING JIB LOAD CHARTS

SCC 1800 Crawler Crane – Luffing jib load charts

Boom 35m Boom angle 85° Jib length 22-52m Rear counterweight 64t Central counterweight 20t Unit: (t)

Radius(m)	Boom length(m)					
	22	25	31	37	43	52
12	54.9/11.4m	54.3/12.1m				
14	49.9	49.5	47.3/13.7m			
16	43.8	43.5	42.7	35.8/15.2m	26.2/16.8m	
18	36.7	36.4	35.8	33.3	24.7	15.6/19m
20	31.5	31.2	30.9	30.6	22.9	14.6
22	28.3	27.4	27.1	27.0	21.3	13.5
24	24.9	24.1	23.9	21.7	19.9	12.6
26	22.2	21.5	20.9	19.5	18.6	11.7
28		19.9	19.3	17.5	17.5	11.0
30			18.0	17.4	16.4	10.3
32			17.2	15.8	15.6	9.6
34			15.0	14.9	14.8	9.0
36				13.7	13.6	8.5
38				12.6	12.3	8.0
40				11.6	11.5	7.6
42					10.7	7.2
44					9.6	6.8
46					8.6	6.5
48						6.2
50						5.9
52						5.7
54						5.5
Multiplying factor	5	5	4	3	3	2

SCC 1800 Crawler Crane – Luffing jib load charts

Boom 38m Boom angle 85° Jib length 22-52m Rear counterweight 64t Central counterweight 20 Unit: (t)

Radius(m)	Boom length(m)					
	22	25	31	37	43	52
12	55/11.6m	47.3/12.4m				
14	49.8	47.3	47.3	35.8/15.5m		
16	43.8	43.5	43.1	35.8		
18	36.9	36.7	36.1	33.4	24.8	
20	31.6	31.4	31.0	30.8	23.0	13.5/19.4m
22	28.5	27.5	27.2	26.7	21.3	13.5
24	25.0	24.2	24.0	22.0	19.9	12.6
26	22.3	21.6	20.7	18.6	17.6	11.8
28		20.0	19.4	17.5	17.5	11.0
30			18.0	17.4	16.5	10.3
32			16.4	15.6	15.6	9.6
34			15.0	14.8	14.6	9.0
36				13.8	13.7	8.5
38				12.6	12.5	8.0
40				11.6	11.0	7.6
42					10.7	7.2
44					9.7	6.8
46					8.7	6.5
48						6.2
50						5.9
52						5.7
54						5.5
Multiplying factor	5	4	4	3	2	2

LUFFING JIB LOAD CHARTS

SCC 1800 Crawler Crane – Luffing jib load charts

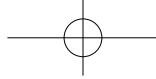
Boom 50m Boom angle 85° Jib length 22-52m Rear counterweight 64t Central counterweight 20t Unit: (t)

Radius(m)	Boom length(m)					
	22	25	31	37	43	52
12	47.3/12.7m	35.8/13.4m				
14	47.3	35.8				
16	42.3	35.8	35.8	32.9/16.6m		
18	37.1	35.8	35.8	32.6	25.2/18.1m	
20	32.4	32.3	31.6	31.4	23.2	14.9/20.4m
22	28.7	28.1	27.8	27.2	21.6	13.7
24	25.5	24.7	24.4	23.3	20.1	12.7
26	22.7	21.9	21.6	20.1	18.8	11.8
28	20.3	19.6	19.1	17.7	17.5	11.0
30		18.4	17.6	16.8	16.6	10.3
32			16.6	15.9	15.7	9.7
34			15.2	14.8	14.4	9.1
36			13.9	13.8	12.8	8.6
38				12.7	12.6	8.1
40				8.8	11.7	7.6
42				6.1	10.8	7.2
44					10.0	6.9
46					9.0	6.5
48					8.1	6.2
50						5.9
52						5.7
54						5.4
56						5.1
Multiplying factor	4	3	3	3	2	2

SCC 1800 Crawler Crane – Luffing jib load charts

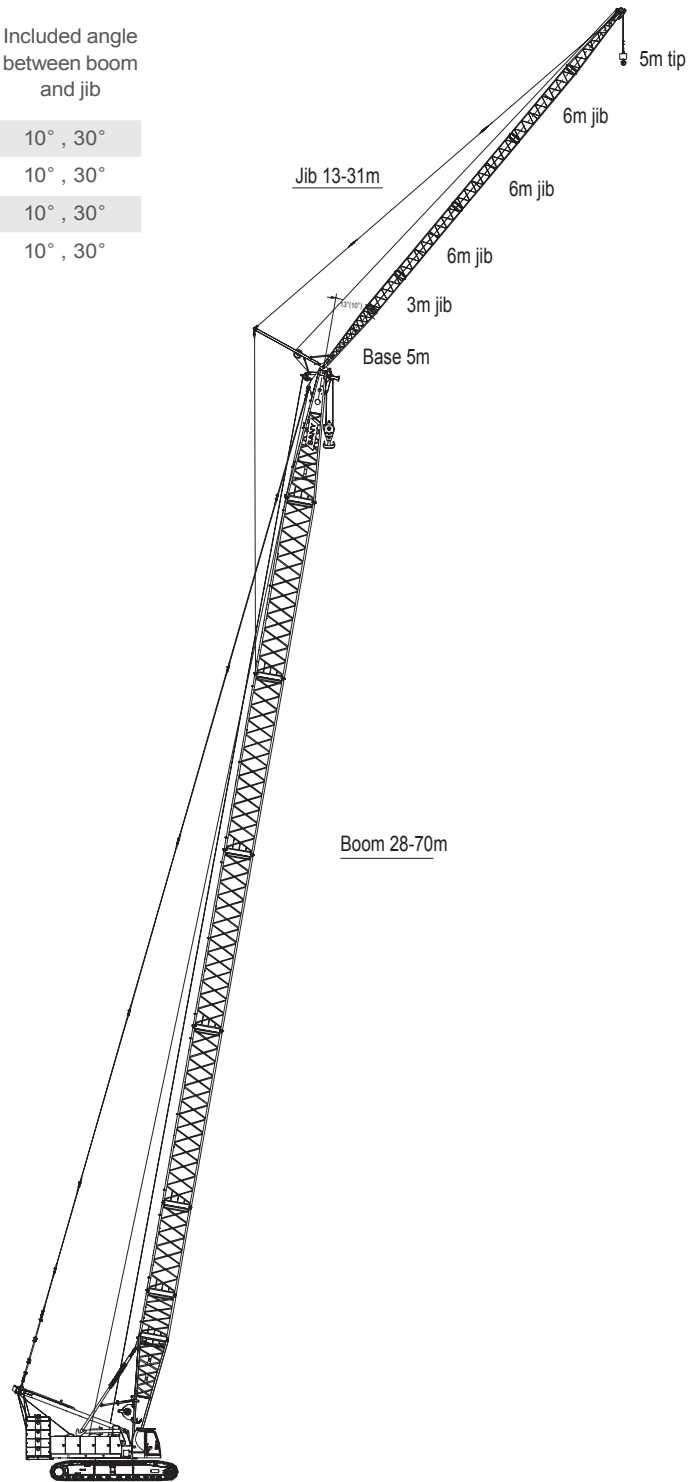
Boom 52m Boom angle 85° Jib length 22-52m Rear counterweight 64t Central counterweight 20t Unit: (t)

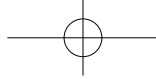
Radius(m)	Boom length(m)					
	22	25	31	37	43	52
12	35.8/12.9m	35.8/13.7m				
14	35.8	35.8	35.8/15.3m			
16	35.8	35.8	35.8	31.7/16.8m		
18	35.8	35.8	35.4	31.3	23.7/18.4m	
20	32.1	32.4	32.1	30.8	23.3	14.9/20.7m
22	27.7	28.0	28.7	28.2	21.7	13.8
24	23.9	24.6	25.2	25.7	20.2	12.7
26	21.9	21.7	22.5	22.8	18.8	11.8
28	20.2	17.8	20.0	20.4	17.7	11.0
30		16.4	17.9	18.4	16.6	10.3
32			16.3	16.7	15.7	9.7
34			15.2	15.2	14.8	9.1
36			14.2	14.0	13.9	8.6
38				12.8	12.7	8.1
40				12.0	11.8	7.7
42				11.0	10.8	7.2
44					10.0	6.9
46					9.1	6.5
48					8.2	6.2
50						5.9
52						5.7
54						5.4
56						5.1
Multiplying factor	3	3	3	3	2	2



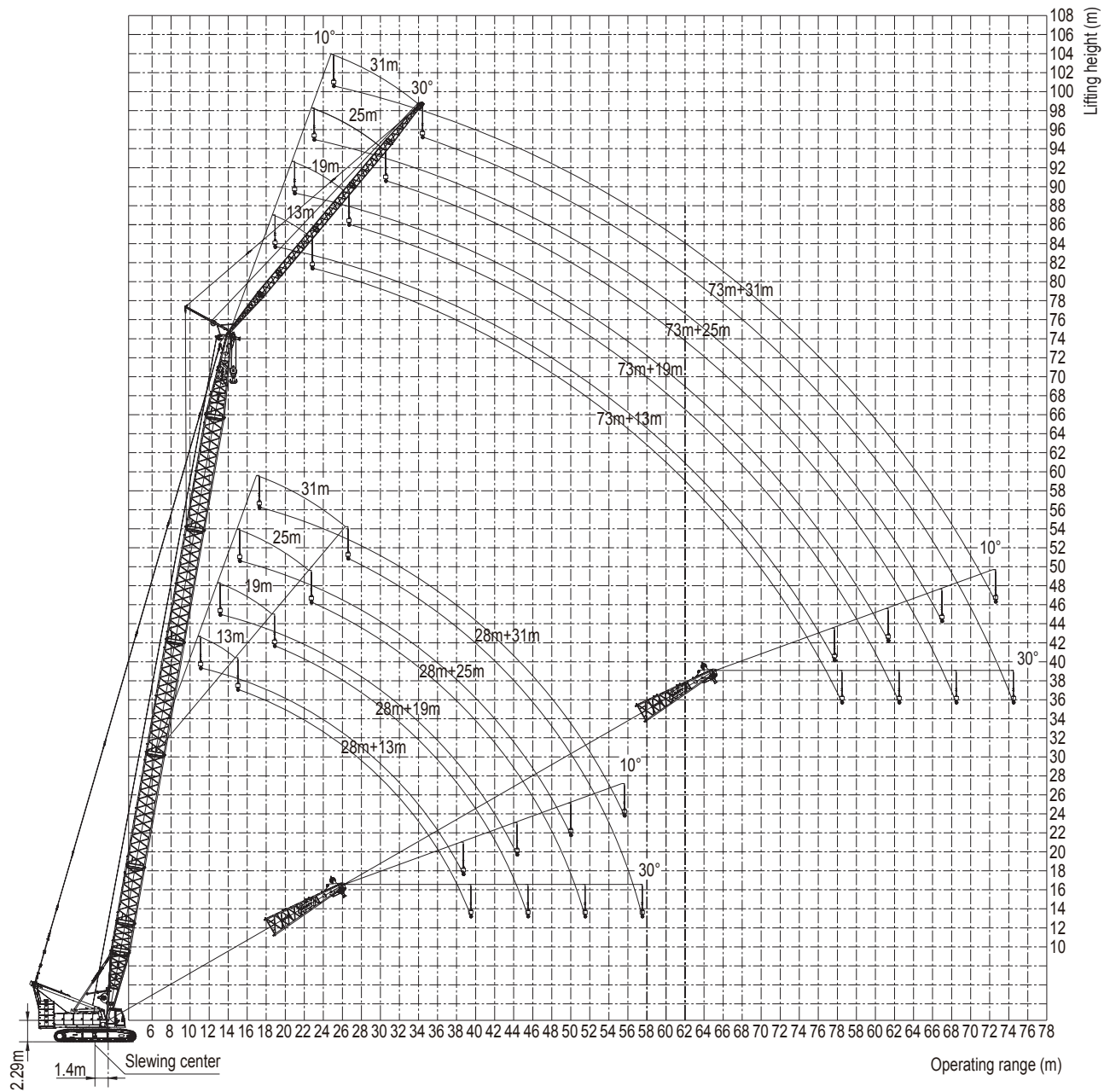
FJ OPERATING CONDITION

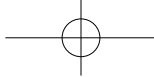
Jib length (m)	Insert		boom length (m)	Included angle between boom and jib
	3 m	6 m		
13	1	-	28—70	10° , 30°
19	1	1	28—70	10° , 30°
25	1	2	28—70	10° , 30°
31	1	3	28—70	10° , 30°





FIXED JIB RANGE DIAGRAM





FIXED JIB LOAD CHART

Description:

1. The rated load indicated in the table is the max. permissible value for objects hoisted slowly and stably on a level and hard ground when the crane does not travel.
2. The rated load indicated in the table is the value computed by taking 75% of the tipover load when the wind speed is below 9.8m/s. The value of load indicated is in the unit of t. The actual lifting capacity is the value obtained by deducting the weight of hoisting tools (e.g. main and auxiliary hook blocks) from the rated lifting capacity indicated in the table.

The weight of hook block is shown as below:

- 25t ball hook – 0.79t
- 13.5t ball hook – 0.53t

3. All values in the load chart are suitable for 360° swing.

FIXED JIB LOAD CHART

SCC 1800 Crawler Crane – Fixed jib load charts

No main hook, jib deflection angle: 10°

Unit: (t)

Boom length Radius	28m				31m				34m			
	Jib length 13m	19m	25m	31m	13m	19m	25m	31m	13m	19m	25m	31m
10m	25/10.4				25/10.8				25/11.3			
12m	25.0	21.2/12.3			25.0	21.2/12.8			25.0	21.2/13.3		
14m	23.5	19.7	11.6/14.3		23.9	20.0	11.9/14.7		24.3	20.3	11.9/15.2	
16m	22.0	18.4	11.3	6.2/16.2	22.6	18.8	11.4	6.6/16.7	23.0	19.1	11.5	6.6/17.2
18m	20.5	17.3	10.5	6.1	21.4	17.7	10.7	6.2	21.8	18.0	10.9	6.3
20m	19.2	16.3	9.9	5.8	20.3	16.6	10.1	5.9	20.7	17.0	10.3	5.9
22m	18.1	15.4	9.4	5.4	19.2	15.8	9.6	5.5	19.7	16.1	9.8	5.6
24m	17.1	14.5	8.9	5.1	18.2	14.9	9.1	5.1	18.7	15.3	9.3	5.2
26m	16.1	13.7	8.4	4.7	17.4	14.2	8.6	4.9	17.8	14.5	8.8	5.0
28m	15.2	12.5	8.0	4.5	16.4	13.3	8.2	4.6	17.0	13.8	8.3	4.7
30m	14.4	11.6	7.5	4.2	15.5	12.2	7.7	4.3	16.2	12.8	8.0	4.4
32m	13.7	10.7	7.2	4.0	14.7	11.3	7.3	4.1	15.3	11.8	7.5	4.2
34m	13.0	10.0	6.8	3.8	13.8	10.5	7.0	3.9	14.5	11.1	7.1	3.9
36m	12.3	9.3	6.4	3.6	13.0	9.8	6.6	3.6	13.7	10.3	6.9	3.7
38m	11.8/37.1	8.7	6.2	3.3	12.2	9.2	6.3	3.4	12.9	9.7	6.5	3.5
40m		8.2	5.8	3.1	11.6/39.7	8.6	6.1	3.2	12.1	9.0	6.2	3.4
42m		7.7	5.6	3.0		8.1	5.7	3.1	11.5	8.5	5.9	3.2
44m		7.5/42.9	5.3	2.8		7.7	5.5	2.9	11.2/42.4	8.1	5.7	3.0
46m			5.2	2.7		7.4/45.5	5.3	2.7		7.6	5.4	2.8
48m			4.9	2.5			5.1	2.6		7.3	5.2	2.7
50m			4.8/48.9		2.4		4.9	2.5		7.1/48.1	5.0	2.6
52m				2.2			4.8/51.5	2.3			4.8	2.5
54m				2.1				2.2			4.7	2.3
56m				2.1/54.6				2.2			4.6/54.2	2.2
58m								2.1/57.2				2.1
60m												2.0/59.9
Counterweight (t)	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20
Multiplying factor	2	2	1	1	2	2	1	1	2	2	1	1

FIXED JIB LOAD CHART

SCC 1800 Crawler Crane – Fixed jib load charts

No main hook, jib deflection angle: 10°

Unit: (t)

Boom length	46m				49m				52m			
Jib length	13m	19m	25m	31m	13m	19m	25m	31m	13m	19m	25m	31m
Radius												
12m	25/13.2				25/13.7							
14m	25.0	20.9/15.1			25.0	20.9/15.6			25/14.1			
16m	24.2	20.0	11.7/17.1		24.5	20.3	11.7/17.6		24.7	20.1/16.1		
18m	23.2	19.0	11.4	6.5/19.0	23.4	19.3	11.5	6.5/19.5	23.6	19.5	11.5/18.0	
20m	22.1	18.1	10.8	6.2	22.4	18.3	11.0	6.3	22.7	18.5	11.1	6.4/20.0
22m	21.1	17.2	10.4	5.9	21.3	17.4	10.4	6.0	21.5	17.7	10.5	6.0
24m	20.1	16.3	9.8	5.6	20.2	16.6	9.9	5.7	20.6	16.8	10.0	5.7
26m	19.1	15.6	9.3	5.3	19.2	15.8	9.5	5.3	19.7	16.1	9.6	5.4
28m	18.2	14.9	9.0	5.0	18.3	15.2	9.1	5.1	18.9	15.4	9.2	5.2
30m	17.3	14.3	8.6	4.8	17.6	14.5	8.7	4.8	18.1	14.7	8.8	4.9
32m	16.4	13.6	7.9	4.5	16.8	13.9	8.3	4.6	17.3	14.1	8.4	4.7
34m	15.6	13.1	7.8	4.3	16.0	13.3	8.0	4.4	16.5	13.5	8.1	4.4
36m	14.7	12.2	7.4	4.1	15.3	12.6	7.6	4.1	15.9	13.0	7.7	4.2
38m	13.9	11.4	7.2	3.9	14.5	11.9	7.2	4.0	14.4	12.3	7.4	4.1
40m	13.0	10.7	6.8	3.7	13.4	11.1	7.0	3.8	13.1	11.5	7.0	3.8
42m	12.2	10.1	6.5	3.5	12.2	10.5	6.7	3.6	12.0	10.9	6.8	3.7
44m	11.3	9.5	6.3	3.3	11.2	9.9	6.4	3.4	10.9	10.2	6.5	3.5
46m	10.4	9.0	6.0	3.2	10.2	9.4	6.1	3.3	10.0	9.7	6.2	3.4
48m	9.5	8.5	5.8	3.0	9.4	8.8	5.8	3.1	9.1	9.1	6.0	3.1
50m	8.8	8.1	5.5	2.9	8.6	8.4	5.7	2.9	8.4	8.7	5.7	3.0
52m	8.1	7.7	5.3	2.7	8.0	8.0	5.4	2.8	7.7	8.0	5.5	2.9
54m	7.8/53.0	7.3	5.1	2.6	7.3	7.6	5.2	2.7	7.1	7.4	5.3	2.8
56m		7.0	4.9	2.5	6.8/55.6	7.0	5.0	2.6	6.6	6.8	5.1	2.7
58m		6.6	4.7	2.4		6.5	4.8	2.5	6.0	6.3	4.9	2.5
60m		6.4/58.7	4.6	2.3		6.0	4.6	2.4	5.8/58.3	5.8	4.8	2.4
62m			4.4	2.2		5.7/61.4	4.5	2.2		5.3	4.5	2.3
64m			4.3	2.1			4.3	2.1		5.0/64.0	4.4	2.2
66m			4.2/64.7	2.0			4.2	2.0			4.2	2.1
68m				1.9			4.0/67.3	2.0			4.1	2.0
70m				1.8				1.9			3.9/70.0	1.9
72m				1.8/70.4				1.8				1.8
74m								1.8/73.1				1.7
76m												1.7/75.7
Counterweight (t)	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20
Multiplying factor	2	2	1	1	2	2	1	1	2	2	1	1

FIXED JIB LOAD CHART

SCC 1800 Crawler Crane – Fixed jib load charts

No main hook, jib deflection angle: 10°

Unit: (t)

Boom length Radius	64m				67m				70m			
	Jib length 13m	19m	25m	31m	13m	19m	25m	31m	13m	19m	25m	31m
16m	25/16.0				16.5/25.6				16.9/25.6			
18m	24.5	18.0/20.4	19.9/11.5		24.7	18.4/20.4			24.9	18.9/20.4		
20m	23.5	19.2	11.3	21.7/6.3	23.7	19.4	20.4/11.4		23.9	19.6	20.8/11.4	
22m	22.6	18.4	10.9	6.2	22.8	18.6	11.0	22.3/6.32	23.0	18.8	11.0	22.8/6.2
24m	21.8	17.6	10.5	6.0	21.9	17.8	10.6	6.0	22.1	18.0	10.6	6.1
26m	20.9	16.9	10.1	5.7	21.2	17.1	10.1	5.7	21.4	17.2	10.1	5.8
28m	20.2	16.1	9.7	5.4	20.3	16.3	9.7	5.4	20.5	16.5	9.7	5.5
30m	19.4	15.6	9.3	5.2	19.4	15.7	9.3	5.2	19.9	15.9	9.3	5.3
32m	18.5	14.9	8.9	4.9	18.2	15.1	8.9	5.0	17.8	15.2	9.0	5.0
34m	16.6	14.3	8.6	4.7	16.4	14.5	8.6	4.8	16.1	14.7	8.6	4.8
36m	15.0	13.8	8.2	4.5	14.7	14.0	8.3	4.5	14.5	14.1	8.3	4.6
38m	13.5	13.3	7.9	4.3	13.3	13.4	8.0	4.4	13.0	13.4	8.1	4.4
40m	12.2	12.6	7.5	4.1	12.0	12.4	7.6	4.2	11.8	12.2	7.7	4.2
42m	11.1	11.4	7.2	3.9	10.9	11.3	7.3	4.0	10.6	11.0	7.4	4.0
44m	10.1	10.5	7.0	3.8	9.8	10.2	7.1	3.8	9.6	10.0	7.1	3.9
46m	9.1	9.5	6.7	3.6	8.9	9.3	6.8	3.7	8.7	9.1	6.9	3.7
48m	8.3	8.7	6.4	3.4	8.2	8.5	6.5	3.5	7.9	8.2	6.6	3.5
50m	7.6	7.9	6.2	3.3	7.4	7.7	6.3	3.4	7.1	7.5	6.3	3.4
52m	6.9	7.2	5.9	3.2	6.7	7.0	6.0	3.2	6.5	6.8	6.1	3.3
54m	6.3	6.6	5.7	3.0	6.1	6.4	5.8	3.1	5.9	6.2	5.9	3.1
56m	5.7	6.1	5.5	2.9	5.6	5.9	5.6	2.9	5.3	5.7	5.7	3.0
58m	5.3	5.5	5.3	2.7	5.1	5.3	5.4	2.8	4.9	5.1	5.5	2.9
60m	4.8	5.0	5.1	2.6	4.6	4.8	5.2	2.7	4.4	4.6	5.0	2.8
62m	4.4	4.6	4.9	2.5	4.2	4.4	4.8	2.6	4.0	4.2	4.6	2.6
64m	3.9	4.2	4.5	2.4	3.8	4.0	4.4	2.5	3.6	3.8	4.2	2.5
66m	3.6	3.9	4.2	2.3	3.4	3.7	4.0	2.3	3.2	3.5	3.8	2.4
68m	3.3	3.5	3.8	2.2	3.1	3.4	3.7	2.2	2.9	3.2	3.5	2.3
70m	3.1/68.8	3.2	3.5	2.1	2.8	3.0	3.3	2.1	2.6	2.9	3.2	2.2
72m		2.9	3.2	2.0	71.5/2.7	2.7	3.0	2.1	2.3	2.6	2.9	2.1
74m		2.7	2.9	1.9		2.5	2.7	2.0	2.1	2.3	2.6	2.0
76m		74.6/2.5	2.7	1.9		2.2	2.5	1.9	74.1/2.0	2.0	2.3	1.9
78m			2.4	1.8		77.2/2.1	2.3	1.8		1.8	2.1	1.8
80m			2.2	1.7			2.1	1.7		79.8/1.6	1.9	1.8
82m			80.5/2.1	1.6			1.9	1.6			1.7	1.7
84m				1.6			83.2/1.7	1.6			1.5	1.6
86m				1.5				1.5			85.8/1.4	1.5
88m				86.3/1.5				1.5				1.3
90m								88.9/1.4				1.2
92m												91.6/1.0
Counterweight (t)	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20
Multiplying factor	2	2	1	1	2	2	1	1	2	2	1	1

FIXED JIB LOAD CHART

SCC 1800 Crawler Crane – Fixed jib load charts

No main hook, jib deflection angle: 30°

Unit: (t)

Boom length	28m				31m				34m					
Jib length Radius	13m	19m	25m	31m	13m	19m	25m	31m	13m	19m	25m	31m		
14m	18.9/14.3		14.8/18.9				15.3/18.9							
16m	17.8				18.0				18.1					
18m	16.9	18.1/12.7			17.2	18.6/12.7			17.4	19.0/12.7				
20m	15.6	12.5	21.9/7.7			16.1	12.5			16.4	12.5			
22m	14.6	12.0	7.5		15.0	12.1	23.3/7.6			15.4	12.3	23.3/7.6		
24m	13.7	11.4	7.1	25.6/3.8		14.1	11.7	7.2	3.8	14.5	11.7	7.2		
26m	12.9	10.7	6.8	3.7	13.3	11.0	6.9	26.1/3.8		13.7	11.2	6.9	26.6/3.8	
28m	12.2	10.0	6.5	3.5	12.6	10.3	6.6	3.5		13.0	10.5	6.7	3.6	
30m	11.6	9.4	6.2	3.3	11.9	9.7	6.3	3.4		12.3	9.9	6.3	3.4	
32m	11.0	8.9	6.0	3.2	11.4	9.1	6.0	3.2		11.8	9.4	6.1	3.2	
34m	10.7	8.4	5.7	2.9	10.9	8.6	5.8	3.0		11.2	8.9	5.9	3.0	
36m	10.3	8.0	5.5	2.8	10.5	8.3	5.5	2.9		10.7	8.5	5.6	2.9	
38m	9.9/37.8		7.6	5.3	2.7	10.2	7.9	5.4	2.7	10.3	8.1	5.4	2.8	
40m		7.4	5.0	2.6	9.9	7.5	5.1	2.6		10.0	7.7	5.2	2.6	
42m		7.1	4.9	2.4	40.5/9.7		7.2	5.0	2.4	9.8	7.4	5.0	2.5	
44m		6.9	4.8	2.3		7.0	4.8	2.4		43.1/9.8	7.1	4.9	2.4	
46m		44.2/6.8		4.6	2.2		6.8	4.6	2.3		6.9	4.7	2.3	
48m			4.6	2.1		46.9/6.7		4.6	2.2		6.7	4.6	2.2	
50m			4.5	2.1			4.5	2.1		49.5/6.6		4.5	2.1	
52m				50.3/4.4		2.0		4.4	2.0			4.4	2.0	
54m				1.9			53.0/4.4		1.9			4.3	2.0	
56m				1.9				1.9			55.6/4.3		1.9	
58m				56.4/1.8					1.8				1.8	
60m									59.1/1.8				1.8	
62m													61.7/1.8	
Counterweight (t)	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	
Multiplying factor	2	1	1	1	2	1	1	1	2	1	1	1		

FIXED JIB LOAD CHART

SCC 1800 Crawler Crane – Fixed jib load charts

No main hook, jib deflection angle: 30°

Unit: (t)

Boom length	46m				49m				52m			
Jib length Radius	13m	19m	25m	31m	13m	19m	25m	31m	13m	19m	25m	31m
16m	18.5/17.1				18.5/17.6							
18m	18.0				18.1				18.3/18.1			
20m	17.4	12.5/20.9			17.5	12.5/21.4			17.6	12.5/21.8		
22m	16.7	12.4			16.9	12.4			16.9	12.4		
24m	15.7	12.1	7.4/24.7		16.0	12.2	7.4/25.2		16.3	12.2	7.4/25.6	
26m	14.9	11.8	7.1		15.1	11.8	7.2		15.4	11.8	7.2	
28m	14.1	11.3	6.8	3.7/28.5	14.4	11.4	6.9	3.7/28.9	14.7	11.5	6.9	3.7/29.4
30m	13.5	10.8	6.6	3.5	13.7	11.0	6.7	3.5	14.0	11.2	6.7	3.5
32m	12.9	10.2	6.4	3.3	13.1	10.4	6.4	3.4	13.4	10.6	6.5	3.4
34m	12.2	9.7	6.1	3.2	12.5	9.9	6.2	3.2	12.8	10.1	6.2	3.3
36m	11.7	9.3	5.9	3.1	12.0	9.4	5.9	3.1	12.2	9.7	6.0	3.1
38m	11.3	8.9	5.7	2.9	11.5	9.0	5.8	2.9	11.7	9.2	5.8	3.0
40m	10.8	8.5	5.5	2.8	11.0	8.6	5.5	2.8	11.3	8.8	5.6	2.9
42m	10.5	8.1	5.3	2.7	10.6	8.3	5.4	2.7	10.8	8.4	5.4	2.8
44m	10.1	7.7	5.1	2.6	10.2	7.9	5.2	2.6	10.5	8.1	5.3	2.6
46m	9.8	7.5	5.0	2.4	9.9	7.6	5.0	2.5	10.1	7.8	5.1	2.5
48m	9.4	7.2	4.8	2.4	9.6	7.3	4.9	2.4	9.4	7.5	4.9	2.4
50m	8.9	6.9	4.6	2.3	8.8	7.1	4.7	2.3	8.6	7.1	4.8	2.4
52m	8.2	6.7	4.6	2.2	8.1	6.8	4.6	2.2	7.9	6.9	4.6	2.2
54m	7.6/53.7	6.5	4.4	2.1	7.4	6.5	4.4	2.1	7.2	6.7	4.5	2.1
56m		6.3	4.3	2.0	6.8	6.3	4.3	2.0	6.6	6.4	4.3	2.1
58m		6.1	4.2	2.0	6.6/56.3	6.2	4.2	2.0	6.1	6.2	4.2	2.0
60m		6.0	4.1	1.9		6.0	4.1	1.9	5.8/59.0	6.0	4.1	1.9
62m		5.9/60.1	4.0	1.8		5.7	4.0	1.8		5.5	4.0	1.8
64m			3.9	1.7		5.5/62.7	3.9	1.8		5.1	3.9	1.8
66m			3.9	1.7			3.9	1.7		4.8/65.4	3.8	1.8
68m			3.8/66.2	1.7			3.8	1.7			3.7	1.7
70m				1.6			3.7/68.8	1.6			3.6	1.6
72m				1.6				1.6			3.6/71.5	1.6
74m				1.6/72.3				1.6				1.6
76m								1.5/74.9				1.5
78m												1.5/77.6
Counterweight (t)	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20
Multiplying factor	2	1	1	1	2	1	1	1	2	1	1	1

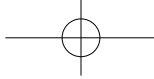
FIXED JIB LOAD CHART

SCC 1800 Crawler Crane – Fixed jib load charts

No main hook, jib deflection angle: 30°

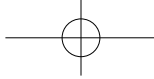
Unit: (t)

Boom length	64m				67m				70m					
Jib length Radius	13m	19m	25m	31m	13m	19m	25m	31m	13m	19m	25m	31m		
20m	18.0/20.0				17.9/20.4				17.9/20.9					
22m	17.3	12.3/23.7			17.4				17.5					
24m	16.8	12.2			16.9	12.2/24.2			17.0	12.2/24.7				
26m	16.3	12.0	7.3/27.5		16.4	12.0			16.5	12.0				
28m	15.5	11.8	7.1		15.7	11.8	7.2/28.0		15.9	11.8	7.2/28.4			
30m	14.9	11.4	6.8	3.6/31.3	15.0	11.5	6.9	3.6/31.7	15.2	11.5	6.9			
32m	14.2	11.1	6.6	3.5	14.4	11.1	6.6	3.5	14.6	11.2	6.7	3.5/32.2		
34m	13.6	10.7	6.4	3.4	13.8	10.8	6.5	3.4	13.9	10.8	6.5	3.4		
36m	13.1	10.2	6.2	3.2	13.2	10.3	6.2	3.2	13.4	10.5	5.0	3.2		
38m	12.5	9.8	6.0	3.1	12.7	9.9	6.0	3.1	12.9	10.1	6.1	3.1		
40m	12.0	9.4	5.8	3.0	12.2	9.5	5.8	3.0	12.2	9.6	5.8	3.0		
42m	11.5	9.0	5.6	2.8	11.3	9.1	5.7	2.8	11.0	9.2	5.7	2.9		
44m	10.5	8.6	5.4	2.7	10.2	8.8	5.5	2.8	10.0	8.8	5.5	2.8		
46m	9.4	8.3	5.3	2.6	9.3	8.4	5.3	2.7	9.1	8.5	5.3	2.7		
48m	8.6	7.9	5.1	2.5	8.5	8.1	5.2	2.5	8.2	8.2	5.2	2.5		
50m	7.9	7.7	4.9	2.4	7.7	7.8	5.0	2.4	7.4	7.9	5.0	2.5		
52m	7.2	7.4	4.8	2.3	6.9	7.5	4.8	2.4	6.7	7.4	4.8	2.4		
54m	6.5	7.1	4.6	2.3	6.3	7.0	4.7	2.3	6.1	6.8	4.7	2.3		
56m	5.9	6.5	4.5	2.2	5.8	6.3	4.5	2.2	5.5	6.1	4.6	2.2		
58m	5.4	6.0	4.4	2.1	5.2	5.8	4.4	2.1	5.0	5.6	4.5	2.1		
60m	4.9	5.4	4.2	2.0	4.8	5.2	4.3	2.0	4.5	5.1	4.3	2.1		
62m	4.5	4.9	4.2	2.0	4.3	4.8	4.2	2.0	4.1	4.6	4.2	2.0		
64m	4.1	4.5	4.0	1.9	3.9	4.4	4.0	1.9	3.7	4.2	4.1	1.9		
66m	3.7	4.1	3.9	1.8	3.5	4.0	3.9	1.8	3.4	3.8	3.9	1.8		
68m	3.4	3.7	3.8	1.7	3.2	3.6	3.8	1.8	3.0	3.4	3.8	1.8		
70m	3.1/69.5		3.4	3.7	1.7	2.9	3.3	3.6	1.7	2.7	3.1	3.4	1.8	
72m		3.1	3.4	1.7	2.6	3.0	3.3	1.7	2.4	2.8	3.1	1.7		
74m		2.8	3.1	1.6	2.5/72.2		2.7	3.0	1.6	2.2	2.5	2.8	1.6	
76m		2.5/75.9		2.8	1.5		2.4	2.7	1.5	2.0/74.8		2.2	2.5	1.6
78m			2.6	1.5		2.2	2.4	1.5		2.0	2.3	1.5		
80m			2.3	1.5		2.1/78.6		2.2	1.5		1.8	2.0	1.5	
82m			2.1/82.0		1.4		2.0	1.4		1.7/81.2		1.8	1.4	
84m				1.4			1.8	1.4			1.6	1.4		
86m				1.4			1.7/84.7		1.4		1.4	1.4		
88m				1.3				1.3		1.3/87.3		1.3		
90m				1.3/88.1				1.3				1.3		
92m								1.2/90.8				1.1		
94m												1.0/93.4		
Counterweight (t)	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20	64+20		
Multiplying factor	2	1	1	1	2	1	1	1	2	1	1	1		



Notes

Area with horizontal dashed lines for writing notes.



Notes

Area with horizontal dashed lines for notes.



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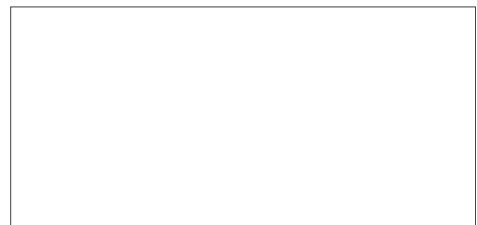
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