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SANY CRAWLER CRANE SCC 8150

CRAWLER CRANE

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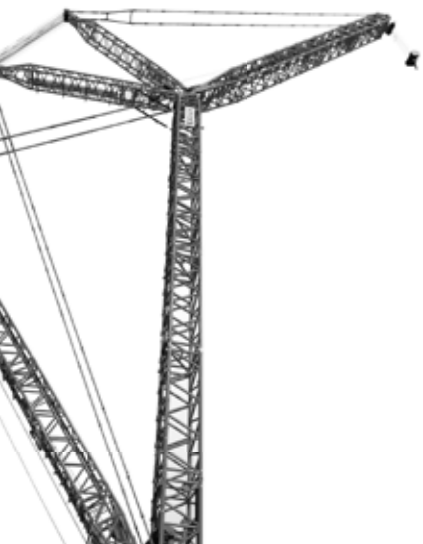
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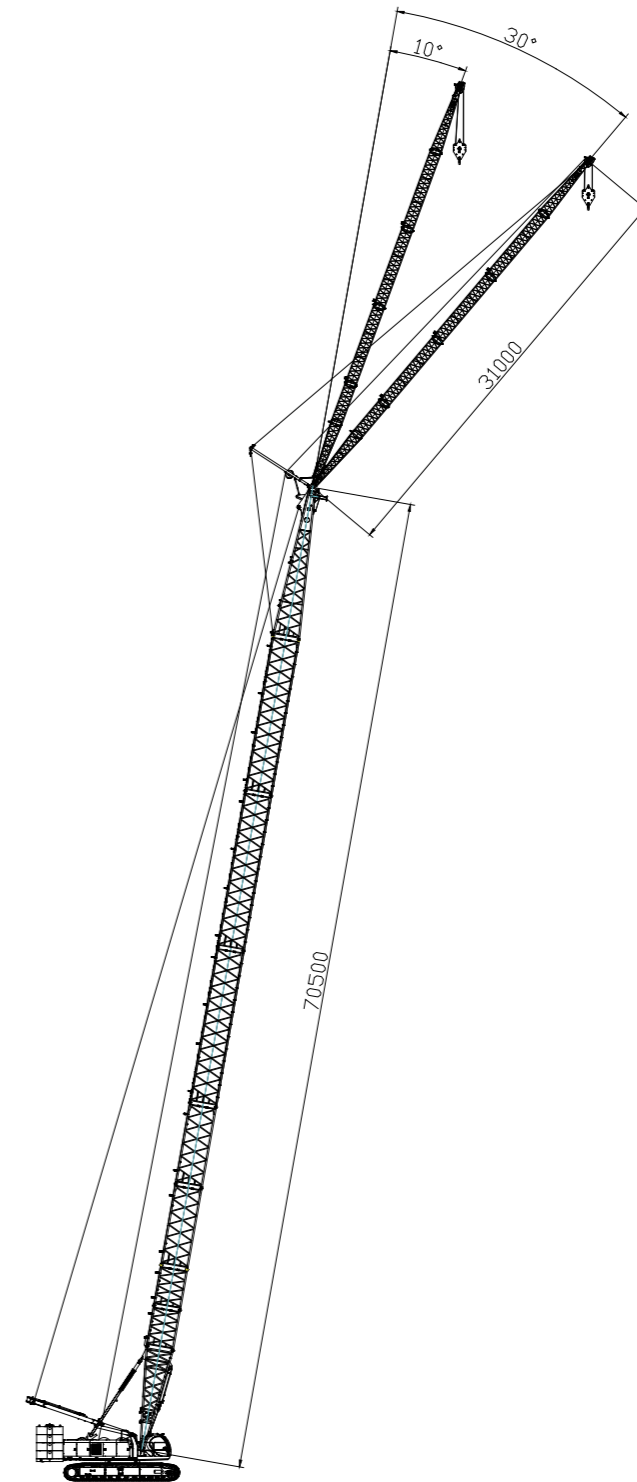
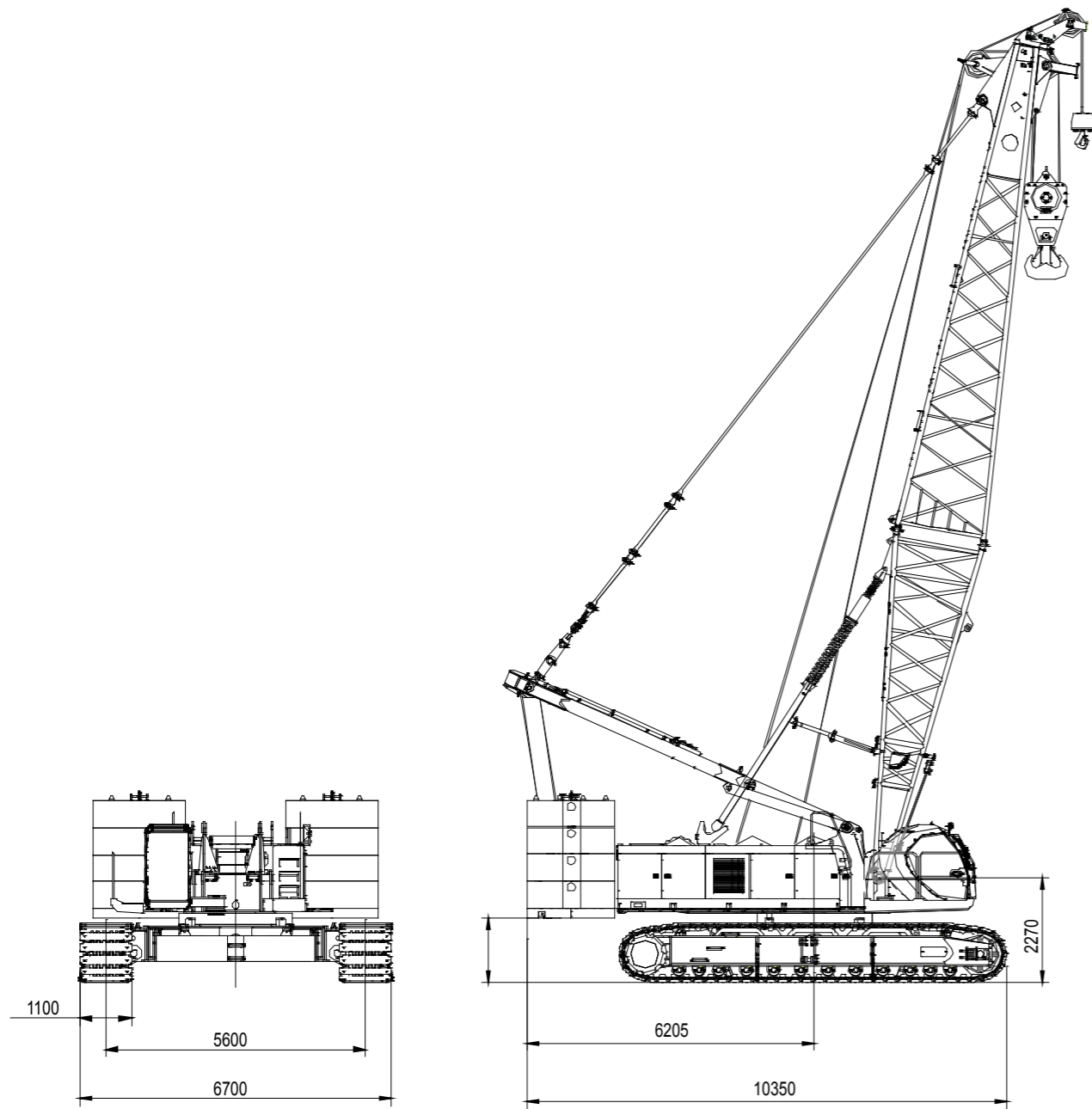
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DIMENSIONS



Boom + Fixed jib FJ operating condition combination (70.5m boom + 31m fixed jib)

TECHNICAL FEATURES

1. Highly Secured Control System:

There are assembly and working modes for your convenience. The system features with real-time level display, machine-leaving stop action, electrical emergency control, lightning protection, automatically walk switches, CCTV monitoring function, and complete safety and supervision system.

2. Excellent Operating Performance:

Advanced load-sensing, limit load regulation and electro-over-hydraulic control make each micro-movement extremely good and operation more stable.

3. Reliable Function Assurance:

Sufficient safety margin is kept for the structure and mechanical design; control system can operate stably in harsh environment such as cold, high temperature, altitude and sandy conditions.

4. Convenient Maintenance Technology:

It takes approximately no more than 10 min/person to adjust; no more than 30 min/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 110t×8m = 880t·m; the max. length of main boom is 82m and of main boom + jib is 70.5m +31m.

6. Flexible Configuration Combination:

Main winch with free hook or the main and auxiliary winches with free hook is optional.

7. Large-Chassis Design:

To ensure excellent machine and job stability within the range of 360° rotation.

8. Optimized Transportation Programs:

There are two transportation programs. When transport with boom base, the max. transportation width of the whole machine is 3.5m. Without boom base, the max. transportation width of the whole machine is 3 m.

9. Reliable Drive System:

Adopt advanced hydraulic technology for higher stability and reliability.

10. Variety of Optional Configurations:

Third winch and free falls can be optional.

11. Optional Engine:

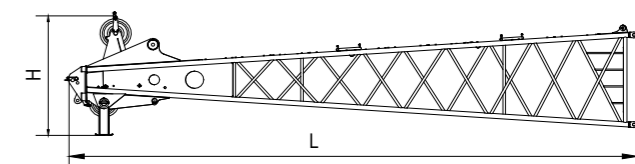
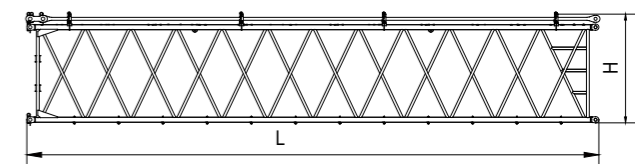
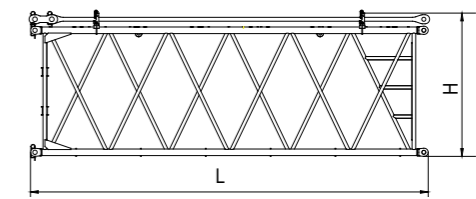
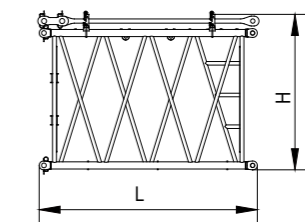
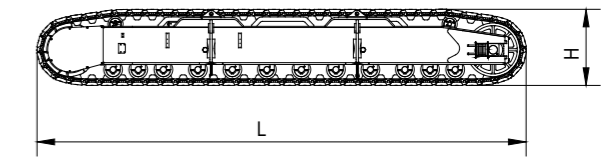
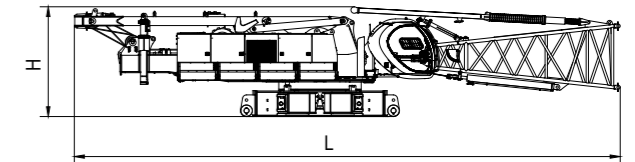
There are different engine configurations that comply with Tier 3 and Tier 4i emission standards for your choice.

PERFORMANCE PARAMETERS

Item	Technical performance index	Unit	SCC8150
Boom operating condition	Max. rated hoisting capacity	t	150
	Max. hoisting torque	t·m	880
	Boom length	m	18~82
	Boom luffing angle	°	30~80
Fixed jib operating condition (optional)	Max. rated hoisting capacity	t	25
	Boom length	m	27~70.5
	Fixed jib length	m	13~31
	Boom luffing angle	°	30~80
	Fixed jib offset angle	°	10/30
Working speed	Boom (jib) hoisting rope speed	m/min	0~130
	Boom luffing duration	s	150
	Swing speed	rpm	2
	Travelling speed	km/h	0~1.3
	Gradability	%	30
Engine	Output power / Engine speed(Euro III)	kW/rpm	242/2100
	Overall weight	t	165
	Machine counterweight	t	58+16
	Max. transport weight of single piece(with boom base)	t	45
Transportation parameter	Transport dimension of carbody (L×B×H) (with boom base)	m	15×3.5×3.2
	Max. transport weight of single piece(without boom base)	t	40.5
	Transport dimension of carbody (L×B×H) (without boom base)	m	10.9×3×3.2

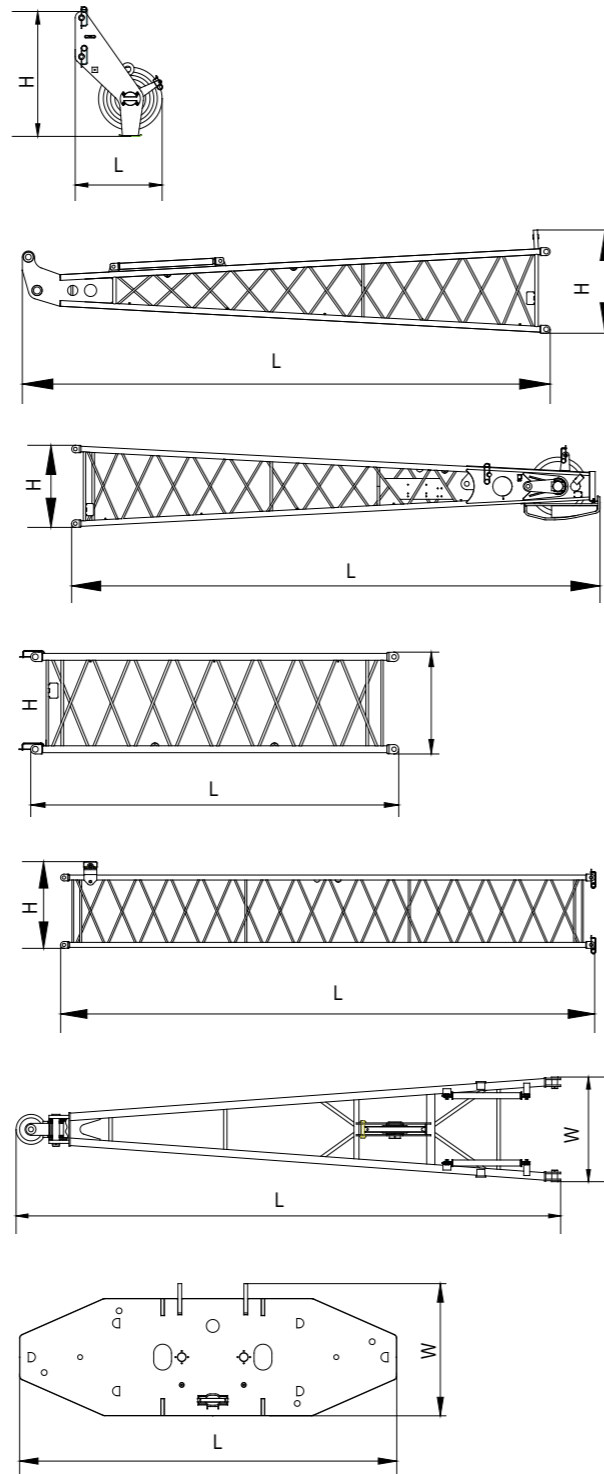
TRANSPORTATION DIMENSIONS

Basic Machine (with boom base)	×1
Length(L)	16.31m
Width(W)	3.50m
Height(H)	3.37m
Weight	45.00t
Track Frame Assembly	×2
Length(L)	8.37m
Width(W)	1.43m
Height(H)	1.30m
Weight	17.30t
3m boom insert NO.2119A	×2
Length(L)	3.14m
Width(W)	2.21m
Height(H)	2.30m
Weight	0.69t
6m boom insert NO.2119A	×2
Length(L)	6.14m
Width(W)	2.21m
Height(H)	2.30m
Weight	1.05t
11.5m boom insert I NO.2119A	×4
Length(L)	11.64m
Width(W)	2.21m
Height(H)	2.30m
Weight	1.83t
Boom tip NO.2119A	×1
Length(L)	11.26m
Width(W)	2.21m
Height(H)	2.50m
Weight	3.00t



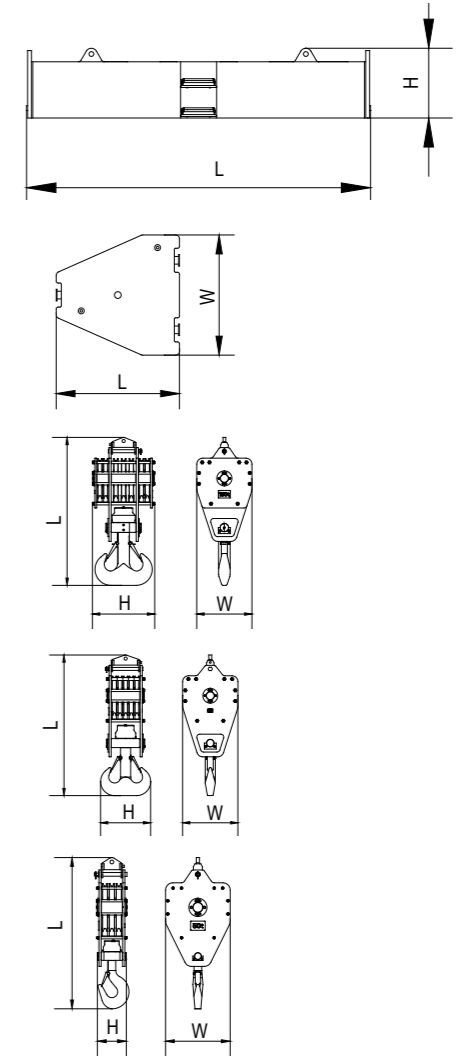
TRANSPORTATION DIMENSIONS

Boom Extension	×1
Length(L)	0.82m
Width(W)	0.45m
Height(H)	1.19m
Weight	0.22t
Fixed Jib Base NO.FJ5-0907	×1
Length(L)	5.18m
Width(W)	1.01m
Height(H)	1.02m
Weight	0.28t
Fixed jib tip NO.FJ5-0907	×1
Length(L)	5.47m
Width(W)	1.01m
Height(H)	0.84m
Weight	0.50t
3m Insert NO.FJ5-0907	×1
Length(L)	3.08m
Width(W)	1.01m
Height(H)	0.84m
Weight	0.13t
6m Insert NO.FJ5-0907	×3
Length(L)	6.08m
Width(W)	1.01m
Height(H)	0.99m
Weight	0.24t
Fixed Jib Mast	×1
Length(L)	5.46m
Width(W)	1.05m
Height(H)	0.60m
Weight	0.50t
Rear Counterweight Tray	×1
Length(L)	6.14m
Width(W)	2.14m
Height(H)	0.60m
Weight	13.90t



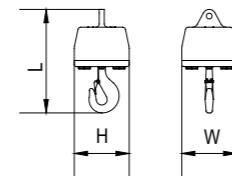
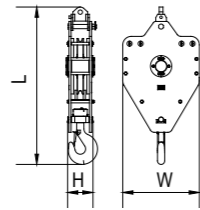
TRANSPORTATION DIMENSIONS

Central Counterweight	×2
Length(L)	3.53m
Width(W)	1.44m
Height(H)	0.72m
Weight	8.00t
Counterweight Block (rear counterweight)	×8
Length(L)	1.97m
Width(W)	1.90m
Height(H)	0.58m
Weight	5.50t
150t Lifting Hook	×1
Length(L)	2.45m
Width(W)	0.91m
Height(H)	1.03m
Weight	2.83t
100t Lifting Hook	×1
Length(L)	2.36m
Width(W)	0.93m
Height(H)	0.84m
Weight	1.99t
50t Lifting Hook	×1
Length(L)	2.07m
Width(W)	0.89m
Height(H)	0.40m
Weight	1.06t



TRANSPORTATION DIMENSIONS

25t Lifting Hook	×1
Length(L)	1.85m
Width(W)	0.90m
Height(H)	0.30m
Weight	0.78t
13.5t Ball Hook	×1
Length(L)	0.93m
Width(W)	0.50m
Height(H)	0.50m
Weight	0.53t



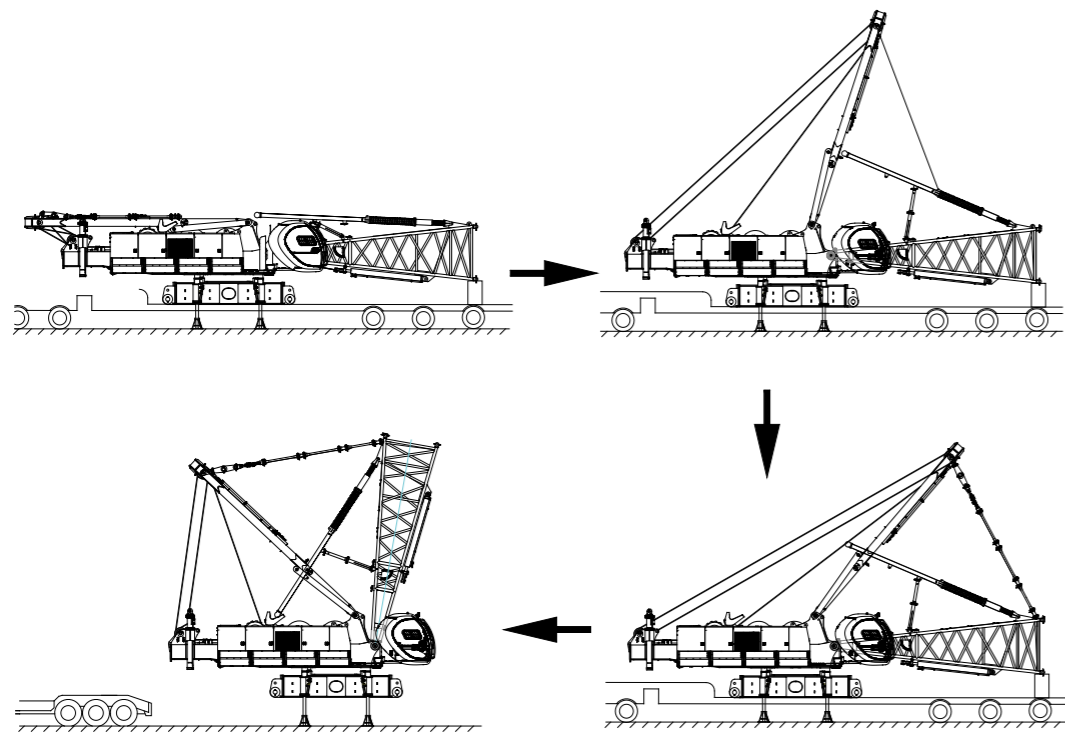
Note: 1. The transport dimensions of the parts are not drawn by scale; the dimensions indicated are the design values excluding package.
2. The weight is the design value and there may be tiny difference due to the manufacturing calibration.

TRANSPORTATION LOADING TABLE

Transportation Loading Table											
Item	Weight(t)	1	2	3	4	5	6	7	8	9	10
Basic crane ×1	45.00	1									
Left track frame assembly×1	17.30		1								
Right track frame assembly×1	17.30			1							
Rear counterweight tray×1	13.90				1						
Counterweight block×8	5.50					3	3		2		
Central counterweight×2	8.00										2
3m boom insert ×2	0.70									1	1
6m boom insert ×2	1.05									1	1
11.5m boom insert ×4	1.83					1	1	1	1		
Boom tip ×1	3.15				1						
Boom extension ×1	0.22				1						
Fixed jib base ×1	0.30		1								
3m insert ×1	0.13			1							
6m insert ×3	0.24		2	1							
Fixed jib tip×1	0.50			1							
Fixed jib mast×1	0.50								1		
150T lifting hook×1	2.83									1	
100T lifting hook×1	1.99									1	
50T lifting hook×1	1.06							1			
25T lifting hook×1	0.78							1			
13.5T ball hook ×1	0.53							1			
Transport weight of each truck (t)	45	18.1	18.2	17.3	18.4	18.4	4.5	13.5	6.9	17.8	

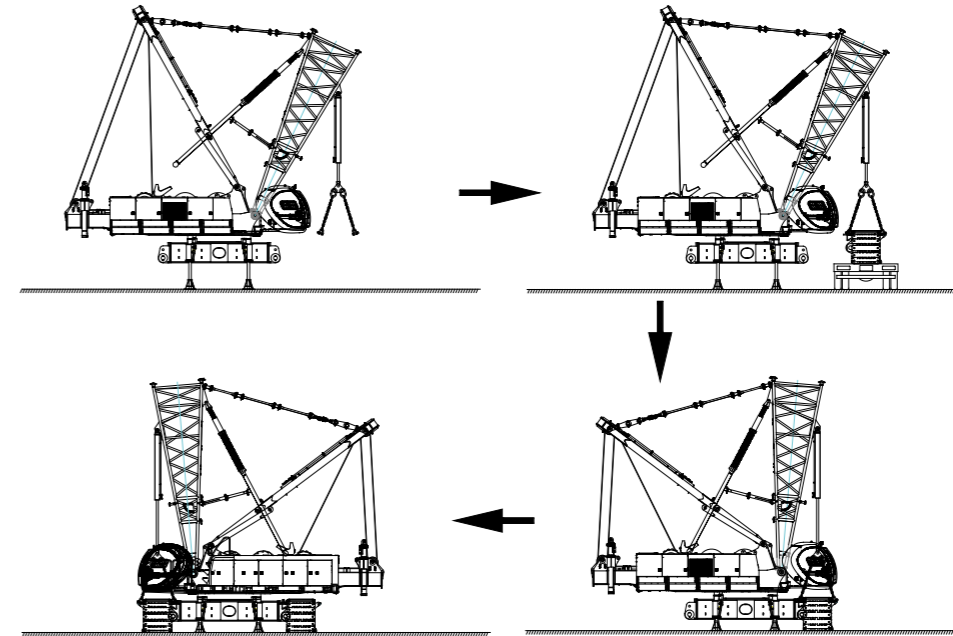
BASIC CRANE SELF ASSEMBLY DIAGRAM

1) Basic Crane Assembly

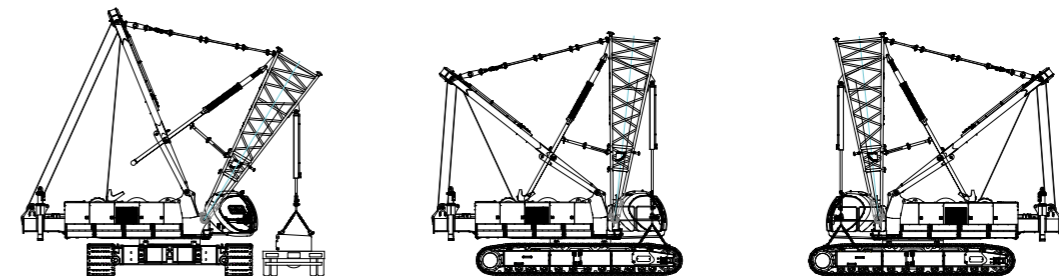


BASIC CRANE SELF ASSEMBLY DIAGRAM

2) Track Frame Assembly

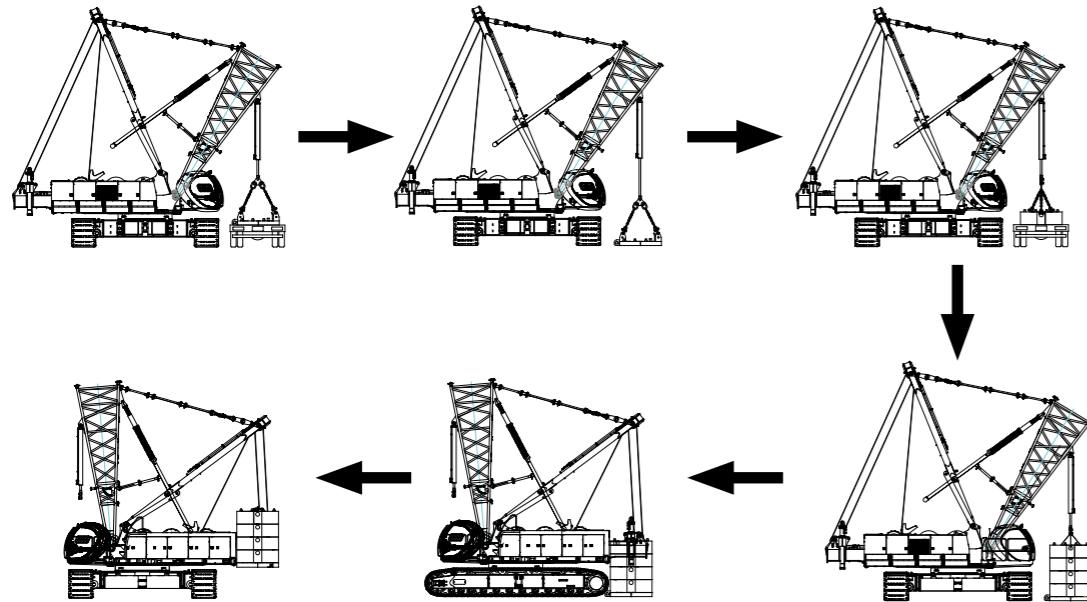


3) Central Counterweight Assembly

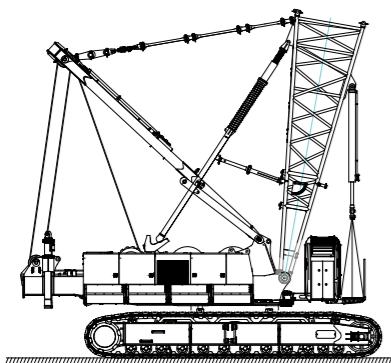


BASIC CRANE SELF ASSEMBLY AND DISASSEMBLY DIAGRAM

4) Rear Counterweight Assembly and Disassembly

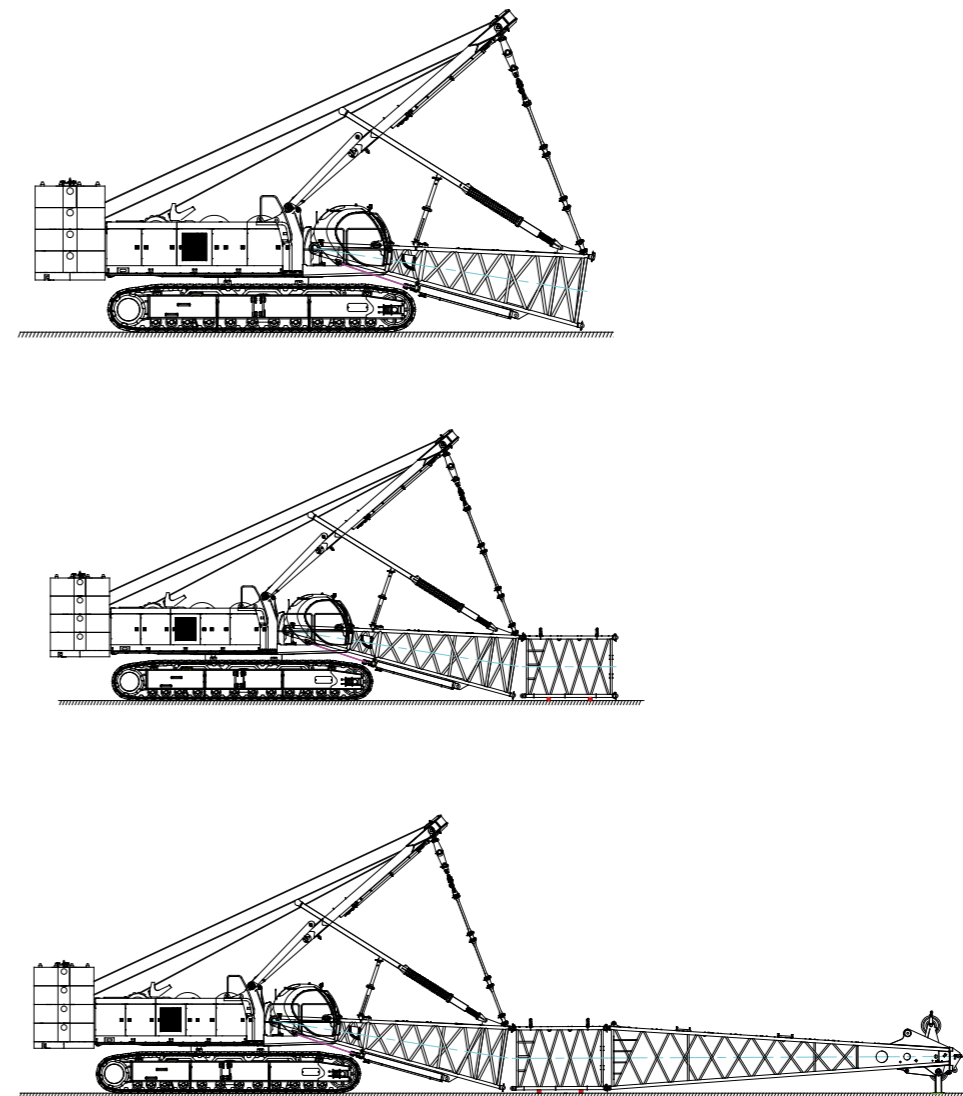


5) Assembly of Cab Walkway

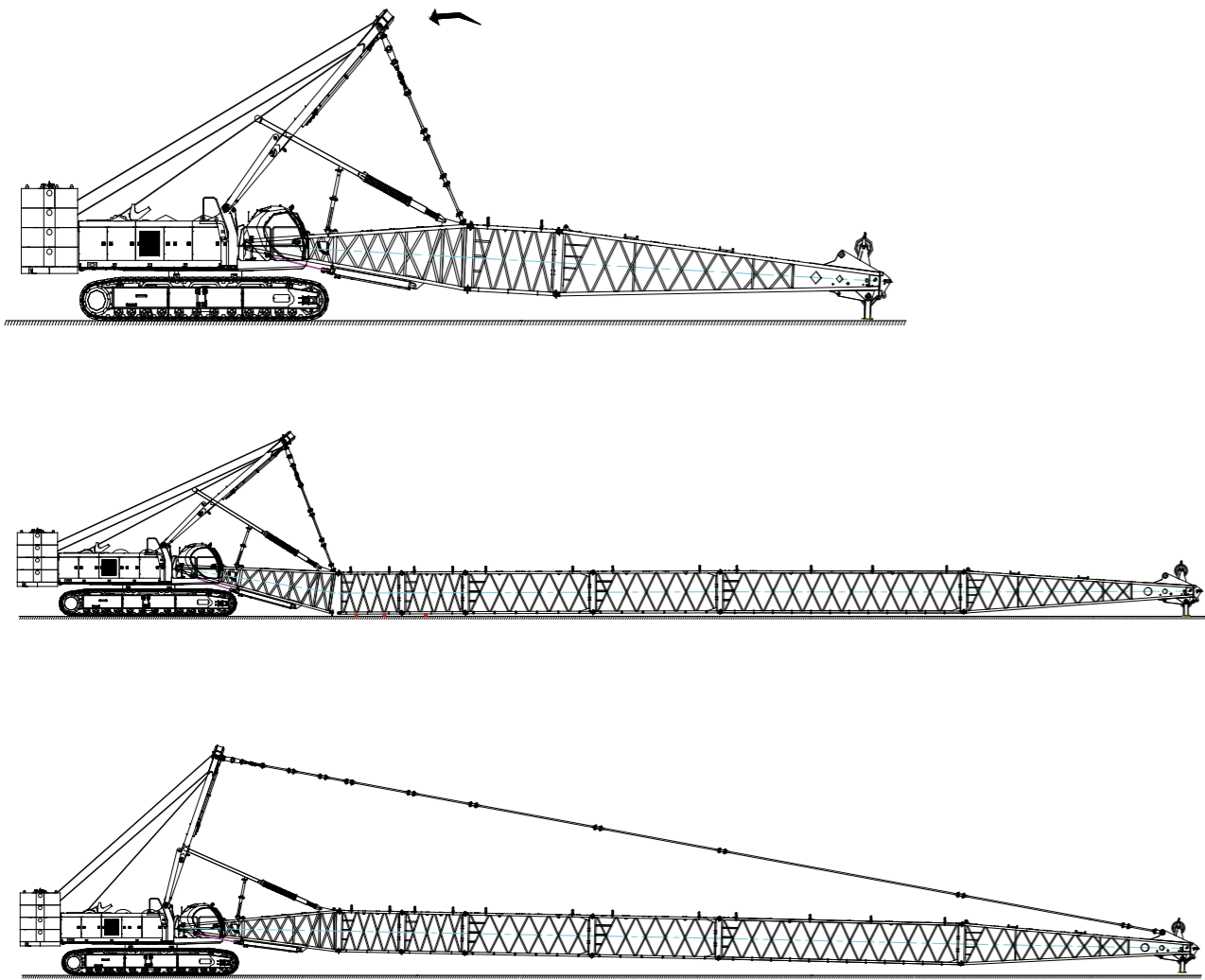


BOOM ASSEMBLY DIAGRAM

1) Boom Assembly under Boom Operating Condition

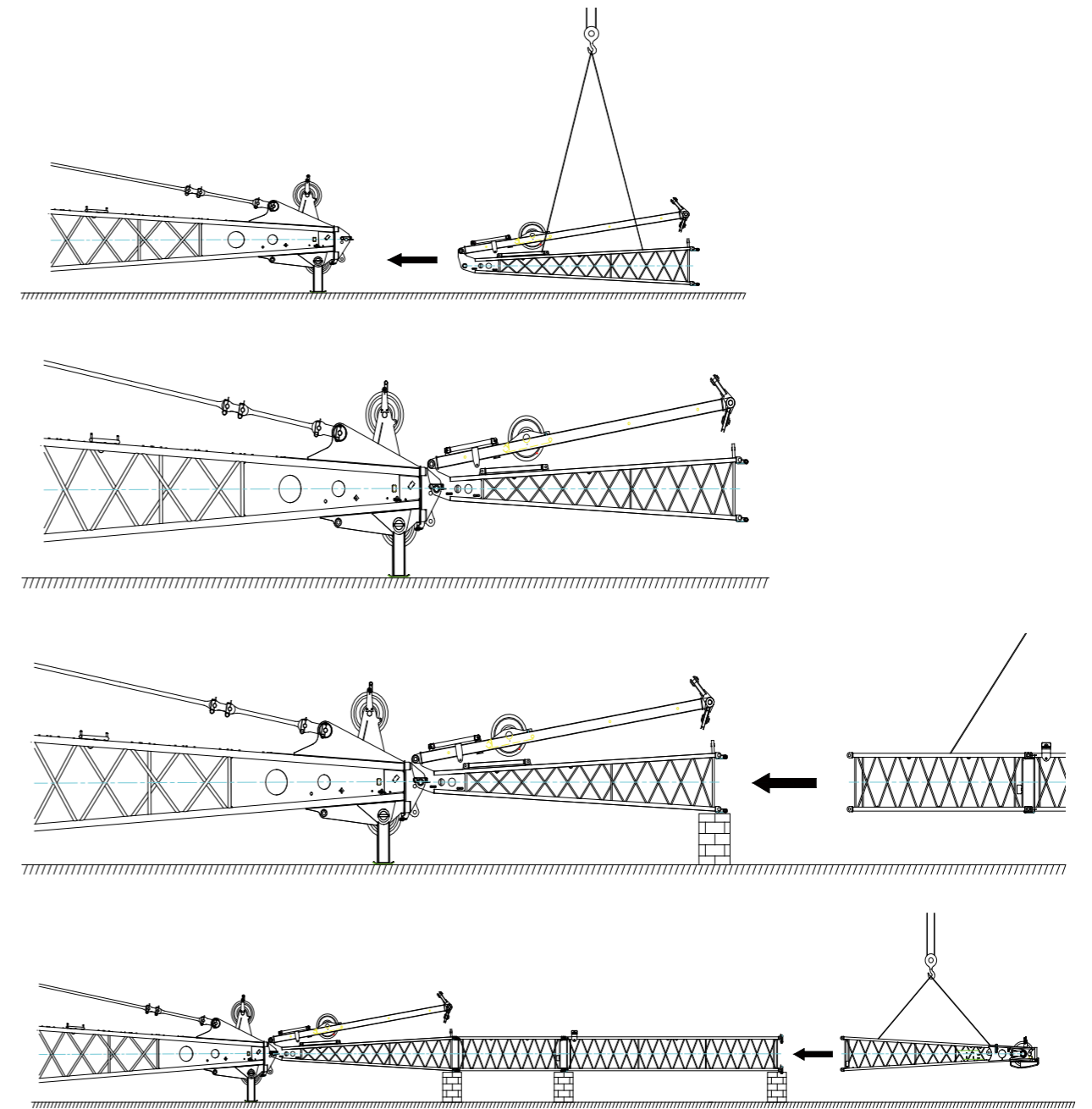


BOOM ASSEMBLY DIAGRAM

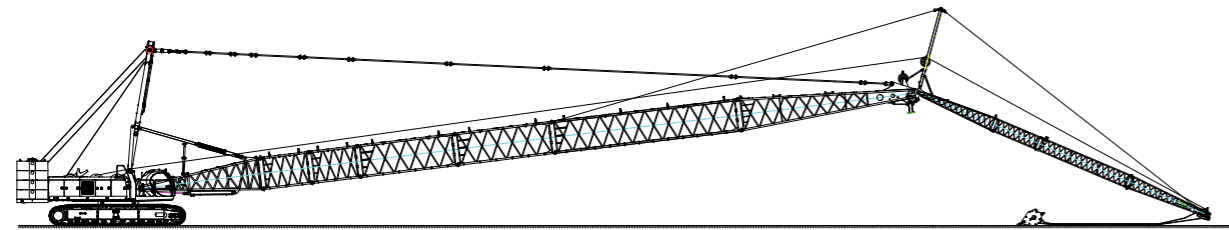
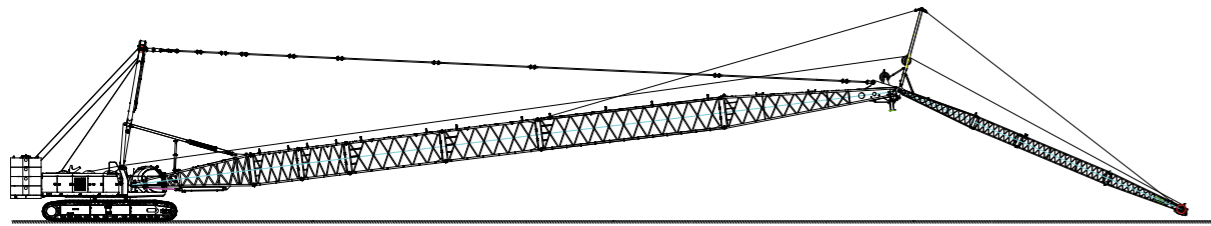
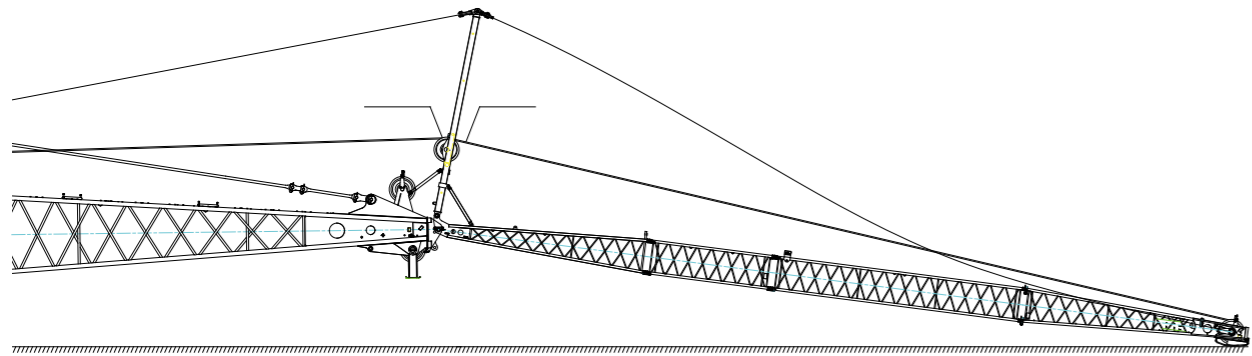
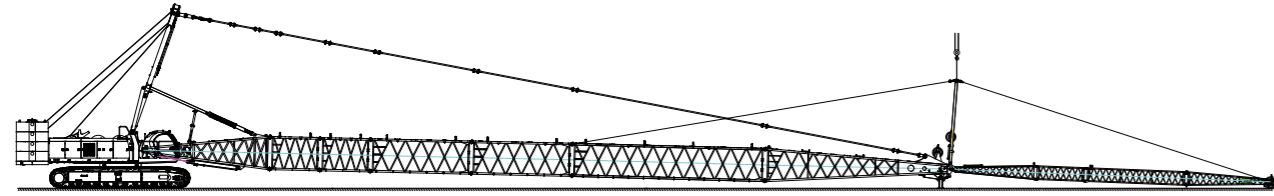


BOOM ASSEMBLY DIAGRAM

2) Boom Assembly under Fixed Jib Operating Condition



BOOM ASSEMBLY DIAGRAM



SCC8150

21	Specifications
23	Operation Devices
24	Safety Devices



SPECIFICATIONS

1) Engine

- Rated power/ speed: 254kW/1800rpm or 242kW/2100rpm;
- Max. torque: 1491·m/1400rpm or 1424N·m/1800rpm;
- Emission standard: Tier 4i or Tier 3
- Air filtering: Two-stage filtering system consisting of air pre-filer and air filter.
- Fuel tank: 800L.

2) Electrical Control System

- CAN bus technology is applied for data communication between controller, combination instrument, engine, load moment indicator and remote control terminal.
- Combined instrument can display parameters such as engine rotating speed, fuel quantity, machine oil pressure, servo pressure, wind speed, the engine working hours and working status of main winch lock, main-to-luffing winch lock and slewing lock etc.

3) Hydraulic System

- Configuration of hydraulic system: Advanced hydraulic system, 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 and limit load regulation makes the operation more stable.
- Adopt independently controlled hydraulic oil cooling system.

4) Main and Auxiliary Hoisting Mechanisms

- Main and auxiliary winches are independently driven. The winch drum is directly driven by winch motor through reducer, and can rotate into two directions through the manipulation of winch handle to carry out lifting and lowering actions of the hook.

- High quality motor reducer and steel wire are adopted for higher reliability and durability.
- The drum design ensures the multi-layer winding is always in order.

NO.1 Main and auxiliary hoisting mechanisms

Wire speed of the outermost working layer	0~130m/min
Wire rope diameter	φ26mm
Length of main/auxiliary hoisting wire rope	350m/300m
Rated single line pull	13.4T

5) Luffing Mechanism

- The winch drum is directly driven by luffing motor through reducer, and can rotate into two directions through the manipulation of luffing handle to carry out lifting and lowering actions of the hook.
- High quality motor reducer and steel wire are adopted for higher reliability and durability.
- The drum design ensures the multi-layer winding is always in order.

NO.2 Luffing mechanism

Wire speed of the outermost working layer	0~30m/min
Wire rope diameter	φ20mm
Wire rope length of luffing winch	320m
Rated single line pull	10.3T

6) Slewing Mechanism

- Inner gear compound swing can rotate 360°.
- High quality motor reducer is used, featuring higher reliability;
- Slewing lock: With hydraulic control auto locking pin, the superstructure can be locked when work is finished or in transport.
- Free slewing function: In hoisting, boom center and load center may not on the same level due to wrong judgment; it can automatically adjust the superstructure to avoid movement of load after being hoisted.
- Slewing ring: Three-row ball slewing ring.

7) Cab

- SANY's newly designed and manufactured fully enclosed cab features with artistic styling and interior decoration. There are large glass windows, short and long distance beam headlight, and rear-view mirror for more open vision.
- It is equipped with well ventilated air conditioning and MP3 player. The seat, joystick and all control buttons are all ergonomically designed, which provides the operator with a more comfortable working environment.
- Armrest box: Joystick, electric switch, emergency stop button and ignition lock are installed on left and right armrest box and auxiliary controlling box. The armrest box is adjustable with the seat.
- Seat: The suspension and multi-way adjustable seats with unloading switch is used.
- Air conditioning: it provides heating and cooling air with optimized air duct and air outlet.

8) Counterweight

- The superposable tray and counterweight blocks are easy to assembly, disassembly and transport.
- Counterweight: 58T in total including tray 13.9T×1, counterweight block 5.5T×8 and center counterweight block 8T×2.

9) Undercarriage

- Each track frames has an independent traveling drive. The traveling motor drives the machine to achieve independent traveling and turning through drive wheel and reducer.
- Track tensioning: Track tension can be adjusted by using hydraulic jack to push guide wheel to adjust clearance between shims
- Track Shoes: High strength alloy steel with higher durability.

OPERATION DEVICES

1) Boom

- Lattice structure; the main chord is made of the high-strength structural steel; all sections are connected with together with pins.
- Basic boom: composed of 10.5m tip and 7.5m base.
- Insert: 3m×2、6m×2、11.5m×4;
- Boom length: 18m~82m.

2) Fixed Jib

- Lattice structure; the main chord is made of the high-strength structural steel; all sections are connected with together with pins.
- Basic jib: composed of 5m jib and 5m base;
- Insert : 3m×1, 6m×3;
- Jib length: 13m~31m;
- Fully extended boom + jib: 70.5m boom +31m jib.

3) Lifting Hook

- 150T lifting hook
- 100T lifting hook
- 50T lifting hook
- 25T lifting hook
- 13.5T ball hook

Notes: The above operation devices are complete configuration. The order contract shall prevail for specific configuration.

SAFETY DEVICES

1) Assembly/Operation Mode Change-over Switch

- In assembly mode, over hoisting limiter, boom angle limiter and load moment indicator will be bypassed for the assembly of the crane.
- In operation mode, all safety limit devices will function.

2) Emergency Stop

In case of emergency, the operator can immediately shut down the entire machine by pressing the emergency stop button.

3) Emergency Back-up Function

When main controller crashes, use electrical emergency plug and manipulate the crane to a safe status. Then all the safety protection function will not be working.

4) Load Moment Indicator

- An independent safety control system fully controlled by computer. The load moment indicator can detect and show rated and actual load, working radius and boom angle.
- Under normal operation condition, it can automatically cut the crane action to dangerous direction, and record the over-load information.
- Composition: display, angle sensing, load sensor.
- Function: It can display rated load, actual load, working radius and boom angle, height and other data at current status of the crane in real time, and give real-time alarm and limit movement.

5) Load Moment Indicator

- A completely separate and secure computer-controlled operating system; LMI can automatically detect the load of cranes and the angle of lifting boom and show its rated load and actual load, working radius and boom angle.
- Components: Machine, display, angle sensors and force sensors etc.
- Function: It can display rated load, actual load, working radius and boom angle, height and other data at current status of the crane in real time, and give real-time alarm and limit movement.

6) Main and Auxiliary Hoisting Limiter

Composed of limit switch and hammer etc. on boom tip to prevent over hoisting of hook block. When the lifting hook is raised to a certain height, the limit switch will be activated. The buzzer on the control panel will alarm and the failure indicator will flash. The lifting operation of hook block will be automatically cut off.

7) Lowering Limiter of Main and Auxiliary Winch

- Composed of movement trigger device and proximity switches to prevent wire rope from
- being over-released. When the wire rope is released near the last three loops, limit switch will work. The system will alarm through buzzer, sending alarm information to the display and automatically stop the lowering of winches.

8) Function Lock

- If the function lock handle is not in place, all the other functions for operating handle will fail to avoid mis-operation caused by body impact getting on or off the cab.
- When operator is not seated, all the manipulation will not work; some mis-operation can effectively be avoided.

9) Drum Locking Device

There are electrically controlled locking devices for main winch, auxiliary winch and luffing winch. The action can be done only after the button is turned to the release position to prevent misuse of handle, thus ensuring the parking safety of winch during idle states.

10) Slewing Locking Device

Hydraulic power pin lock can lock the crane in front, rear, left and right positions. Slewing lock pin and slewing motion adopt electronically controlled linkage to prevent malfunction.

11) Boom Limit Device

- When the boom angle is greater than 80° , buzzer will give an alarm and the boom operation will be cut off. This protection is controlled by load moment limiter and travel switch.
- When boom angle is less than 30° , the system will alarm through buzzer and display alarm information in combined instrument to automatically stop boom lowering movement. This protection is controlled by load moment indicator automatically.

12) Boom Back-stop Device

Composed of nesting tubing and spring. It buffers the energy of boom backwards tilting by spring force to prevent the boom from tilting backwards.

13) Boom Angle Indicator

Boom angle indicator device is fixed on the boom base near the cab for convenient view of operator.

14) Hook Latch

There are baffle on the hook to prevent the wire rope fall off.

15) Monitoring System

- Cameras: 3 cameras are equipped for monitoring auxiliary winch, luffing winch and the back of whole machine.
- Optional monitoring: Variable zoom monitoring system monitors the working conditions of hooks.
- Optional remote control: GPS satellite positioning, GPRS data transfer, device status information, statistics, monitoring and analysis of operational data and remote fault diagnosis can be realized.

16) Lightning Protection Device

Including lightning protection grounding devices and surge protection device; it can effectively prevent damage to electrical components and operators in case of lightning strikes.

17) Level Gauge

Electronic level gauge can display title angle of superstructure on monitor.

18) Three-Color Load Alarm Light

Red, Yellow and Green lights indicate loading situations in Real-Time. If the actual load is less than 92% of the rated load, the Green light will turn on. If the actual load is more than 92%, but less than 100% of the rated load, the Yellow light will turn on with intermittent sound alarm. If the actual load is 100% of the rated load, the Red light will turn on with continuous sound alarm. If the actual load is 102% of the rated load, then the system will immediately cease the operation of the crane.

19) Audio And Visual Alarming Device

When the engine works, the light will flash; when at traveling or slewing operation state, the sound alarm will be given.

20) Slew Alarm

When the machine is travelling or slewing, slew alarm light will flash.

20) Illumination Light

The short-beam lamp at the front of cab, front angle adjustable far-beam lamp, cab lamp and other lighting device at night are equipped to improve the visibility of construction.

21) 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.

22) Pharos

It is on the top of boom for altitude lightning.

23) Seat Leaving Protection

If operator is not seated, all manipulation will not work to effectively avoid mis-operation.

24) Anemometer

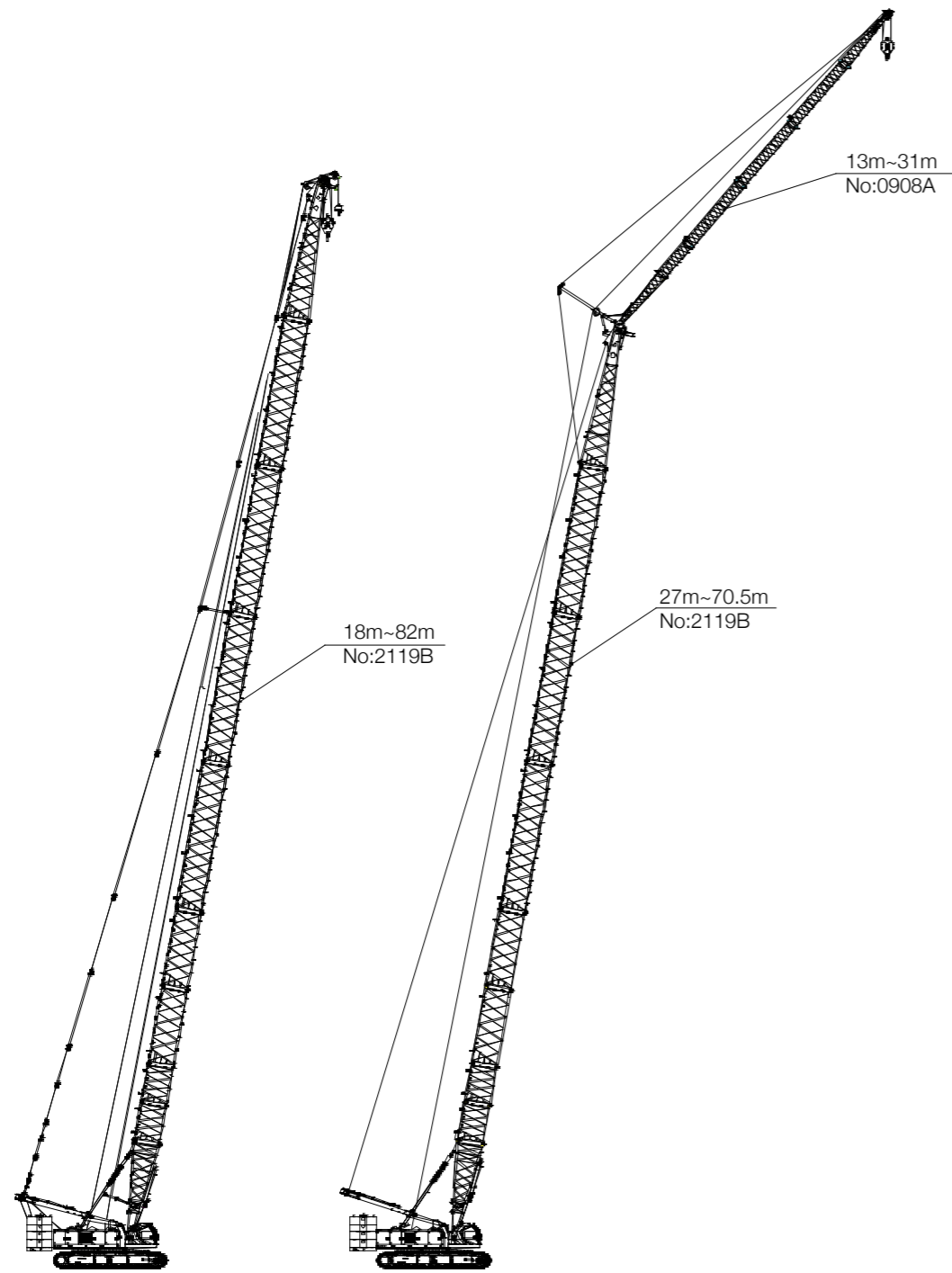
Installed on the top of boom, to monitor wind speed in real time and transfer data to the cab and display them on monitor.

SCC8150

29	Operating Condition Combination
30	H Operating Condition
34	FJ (Fixed Jib) Operating Condition



OPERATING CONDITION COMBINATION



H boom operating condition
Longest boom: 82m

FJ fixed jib operating condition
Longest combination: 70.5m+31m

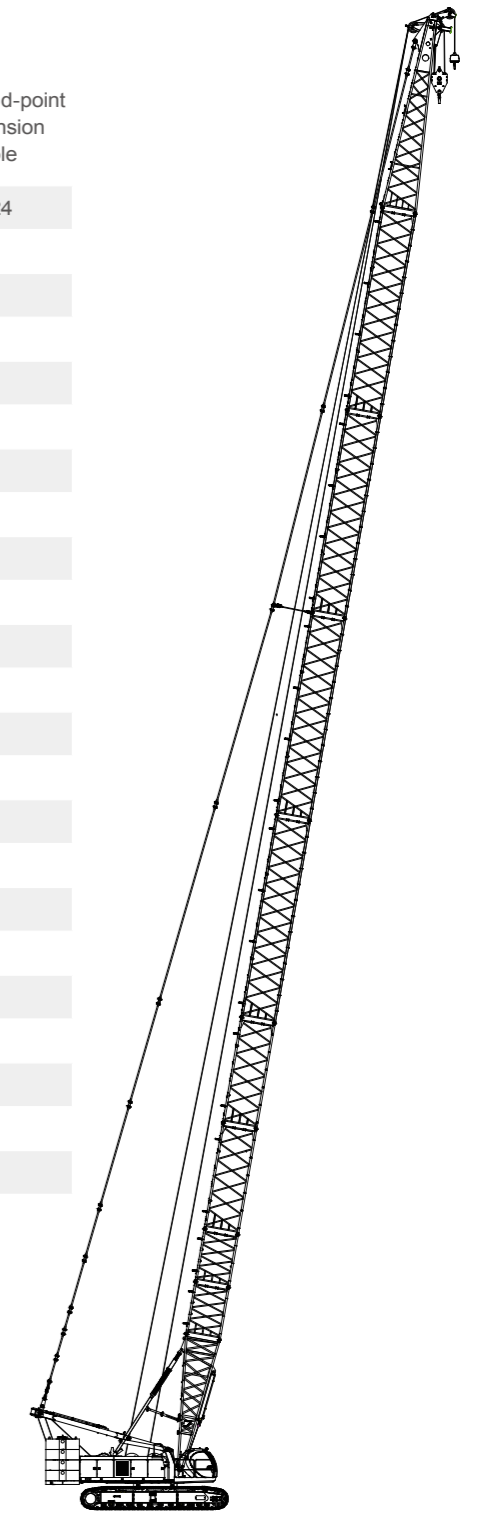
H OPERATING CONDITION

Boom combination under H operating condition

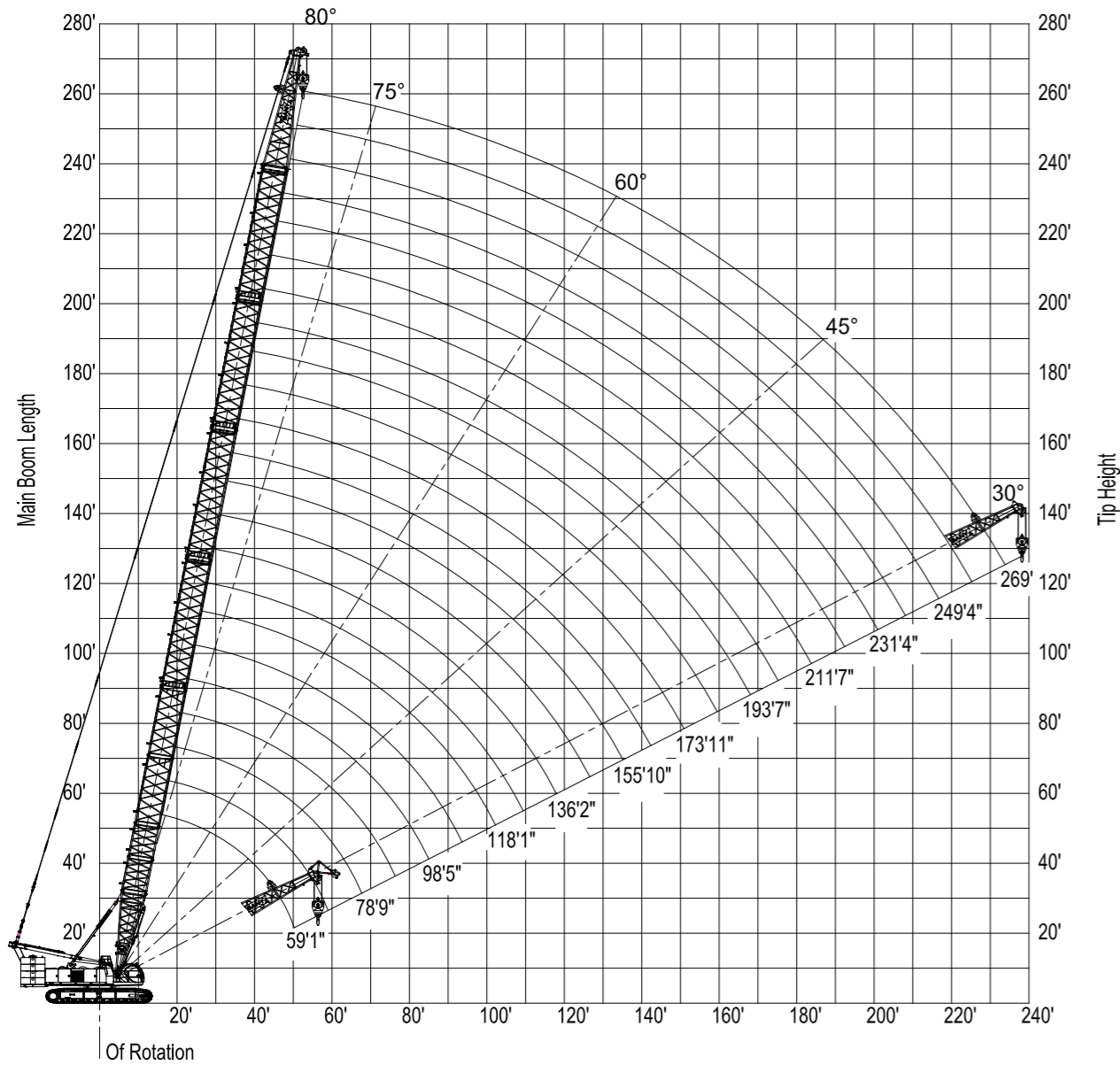
Name	insert			Boom mid-point suspension cable
	3	6	11.5	
18	-	-	-	-
21	1	-	-	-
24	2	-	-	-
27	1	1	-	-
30	2	1	-	-
33	1	2	-	-
36	2	2	-	-
38.5	1	1	1	-
41.5	2	1	1	-
44.5	1	2	1	-
47.5	2	2	1	-
50	1	1	2	-
53	2	1	2	-
56	1	2	2	-
59	2	2	2	-
61.5	1	1	3	-
64.5	2	1	3	-
67.5	1	2	3	-
70.5	2	2	3	-
73	1	1	4	-
76	2	1	4	1
79	1	2	4	1
82	2	2	4	1

Notes: If the boom length is 76m, 79m or 82m, 2.24m boom mid-point suspension cable should be adopted, with its installation position referring to "Boom configuration table".

Notes: when selecting the boom extension, see boom operating condition load table in the cab.



WORKING RANGE DIAGRAM OF H OPERATING CONDITION



Lifting height working range curve

LOAD CHART OF H OPERATING CONDITION

Load Chart of SCC8150 Boom Series 2 BOOM No.2119B

Unit: (t)

Radius (m)	BOOM No. 2119B										Radius (m)	
5	150	-	-	-	-	-	-	-	-	-	-	5
6	138	130.2/6.1	-	-	-	-	-	-	-	-	-	6
7	124	119.7	111.9/7.1	-	-	-	-	-	-	-	-	7
8	110	105	101	-	-	-	-	-	-	-	-	8
9	96	94.7	88.9	81.6	-	-	-	-	-	-	-	9
10	83	81	79.2	73.2	63.8/10.2	54.2/11.6	-	-	-	-	-	10
12	67.5	67.2	64.9	60.5	56.3	52.7	44.9/13.1	-	-	-	-	12
14	54.7	54.5	54.1	51.4	48	45.2	42.5	38.2/14.2	35/15.1	-	-	14
16	45.7	45.7	45.4	44.5	41.7	39.3	37.1	35	33.5	27.6/16.2	-	16
18	-	39.1	38.8	38.3	36.7	34.7	32.7	31.4	30.2	27.5	-	18
20	-	34	33.8	33.4	32.6	30.9	29.2	27.9	26.9	25.7	-	20
22	-	29.9	29.8	29.4	28.8	27.7	26.2	25.1	24.1	23.1	-	22
24	-	-	26.5	26.2	25.6	25	23.6	22.6	21.8	20.8	-	24
26	-	-	23.8	23.5	22.9	22.4	21.5	20.5	19.7	18.8	-	26
28	-	-	-	21.2	20.7	20.2	19.6	18.6	17.9	17	-	28
30	-	-	-	19.3	18.7	18.3	17.8	17	16.4	15.5	-	30
32	-	-	-	17.6	17.1	16.6	16.1	15.6	15	14.1	-	32
34	-	-	-	16.1	15.6	15.2	14.7	14.2	13.7	12.9	-	34
36	-	-	-	-	14.3	13.9	13.4	13	12.6	11.8	-	36
38	-	-	-	-	13.2	12.8	12.3	11.8	11.5	10.8	-	38
40	-	-	-	-	12.1	11.7	11.3	10.8	10.5	9.9	-	40
42	-	-	-	-	11.2	10.8	10.3	9.9	9.6	9.1	-	42
44	-	-	-	-	-	10	9.5	9.1	8.8	8.4	-	44
46	-	-	-	-	-	9.2	8.8	8.3	8	7.6	-	46
48	-	-	-	-	-	8.5	8.1	7.6	7.4	6.9	-	48
50	-	-	-	-	-	7.9	7.4	7	6.7	6.3	-	50
52	-	-	-	-	-	-	6.9	6.4	6.2	5.7	-	52
54	-	-	-	-	-	-	6.3	5.9	5.6	5.2	-	54
56	-	-	-	-	-	-	5.8	5.3	5.1	4.7	-	56
58	-	-	-	-	-	-	-	4.9	4.7	4.2	-	58
60	-	-	-	-	-	-	-	4.4	4.2	3.8	-	60
62	-	-	-	-	-	-	-	3.9	3.8	3.4	-	62
64	-	-	-	-	-	-	-	-	3.4	3	-	64
66	-	-	-	-	-	-	-	-	3.1	2.7	-	66
68	-	-	-	-	-	-	-	-	-	2.3	-	68
70	-	-	-	-	-	-	-	-	-	2	-	70
72	-	-	-	-	-	-	-	-	-	1.7	-	72

Notes:

- 1) The actual weight is that the rated lifting capacity in the table deducted by the total weight of the lifting hook, hangers and wire ropes winding on the lifting hook and tip.
- 2) The rated load in above table is a value of load being slowly and stably lifted from the level and solid ground.

LOAD CHART OF H OPERATING CONDITION

Load Chart of SCC8150 Boom Series 1 BOOM No. 2119B

Radius (m)	BOOM No. 2119B											Radius (m)
	18	24	30	38.5	47.5	56	64.5	70.5	73	76		
5	150	-	-	-	-	-	-	-	-	-	-	5
6	138	118.4/6.1	-	-	-	-	-	-	-	-	-	6
7	114	105	93.1/7.1	-	-	-	-	-	-	-	-	7
8	97.1	90.1	83.9	62.5/8.6	-	-	-	-	-	-	-	8
9	84	78.6	73.7	67.6	-	-	-	-	-	-	-	9
10	72.3	69.6	65.6	60.5	52.4/10.2	44.5/11.6	-	-	-	-	-	10
12	55.7	55.5	53.6	49.9	46.2	43.2	36.5/13.1	-	-	-	-	12
14	45	44.9	44.6	42.2	39.3	36.8	34.5	31.8/14.2	30.6/14.6	27.5/15.1	-	14
16	37.5	37.5	37.2	36.4	34	31.9	30	28.6	28.1	27.4	-	16
18	-	32	31.7	31.3	29.8	28	26.3	25.1	24.6	24.1	-	18
20	-	27.7	27.5	27.1	26.4	24.8	23.3	22.2	21.8	21.3	-	20
22	-	24.3	24.2	23.8	23.2	22.2	20.8	19.8	19.4	19	-	22
24	-	-	21.4	21.1	20.5	19.9	18.7	17.7	17.4	17	-	24
26	-	-	19.2	18.8	18.3	17.8	16.8	15.9	15.6	15.2	-	26
28	-	-	-	16.9	16.4	16	15.2	14.4	14.1	13.7	-	28
30	-	-	-	15.3	14.8	14.3	13.8	13	12.8	12.4	-	30
32	-	-	-	13.9	13.4	13	12.5	11.8	11.6	11.2	-	32
34	-	-	-	12.6	12.1	11.7	11.2	10.7	10.5	10.2	-	34
36	-	-	-	-	11.1	10.7	10.2	9.7	9.6	9.2	-	36
38	-	-	-	-	10.1	9.7	9.2	8.8	8.7	8.4	-	38
40	-	-	-	-	9.2	8.8	8.4	7.9	7.8	7.6	-	40
42	-	-	-	-	8.4	8.1	7.6	7.2	7.1	6.9	-	42
44	-	-	-	-	-	7.4	6.9	6.5	6.4	6.2	-	44
46	-	-	-	-	-	6.7	6.3	5.8	5.7	5.6	-	46
48	-	-	-	-	-	6.1	5.7	5.3	5.2	5	-	48
50	-	-	-	-	-	5.6	5.1	4.7	4.6	4.4	-	50
52	-	-	-	-	-	-	4.7	4.2	4.2	4	-	52
54	-	-	-	-	-	-	4.2	3.8	3.7	3.5	-	54
56	-	-	-	-	-	-	3.8	3.4	3.3	3.1	-	56
58	-	-	-	-	-	-	-	3	2.9	2.7	-	58
60	-	-	-	-	-	-	-	2.6	2.5	2.3	-	60
62	-	-	-	-	-	-	-	2.3	2.2	2	-	62
64	-	-	-	-	-	-	-	-	1.9	1.7	-	64
66	-	-	-	-	-	-	-	-	0.8	1.4	-	66

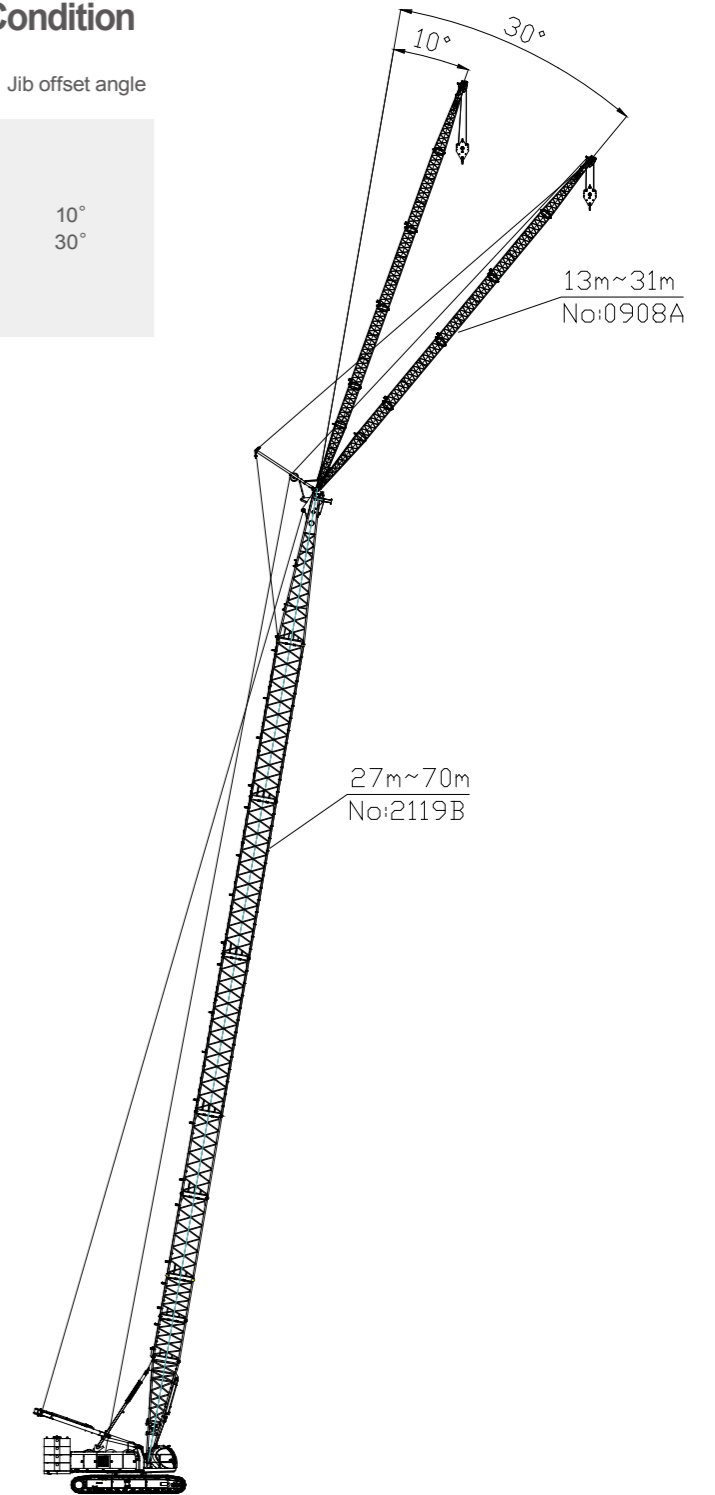
Notes:

- 1) The actual weight is that the rated lifting capacity in the table deducted by the total weight of the lifting hook, hangers and wire ropes winding on the lifting hook and tip.
- 2) The rated load in above table is a value of load being slowly and stably lifted from the level and solid ground.

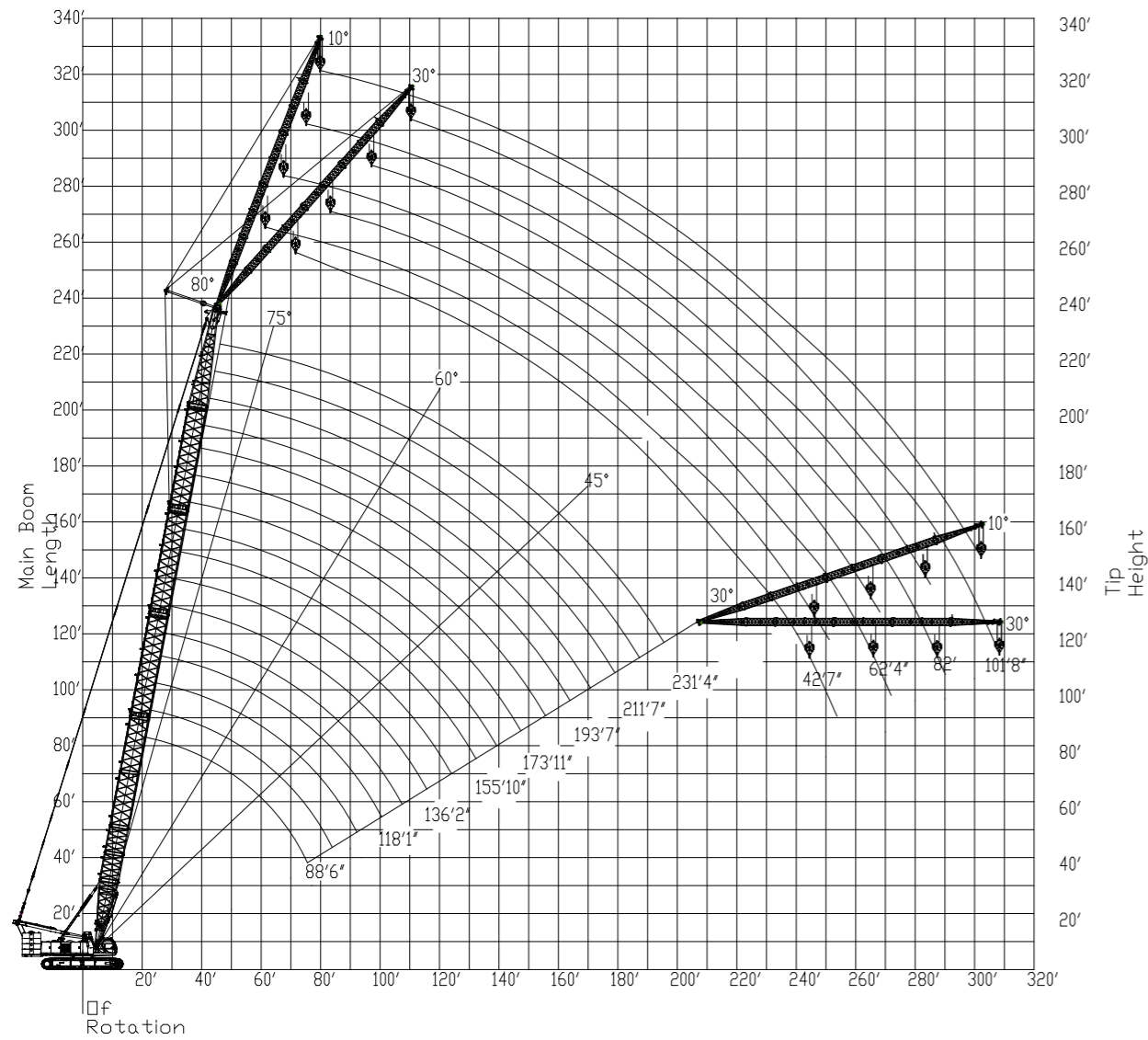
FJ (FIXED JIB) OPERATING CONDITION

Jib Combination under FJ Operating Condition

Jib length (m)	insert (m)		Jib offset angle
	3	6	
13	1	-	10° 30°
19	1	1	
25	1	2	
31	1	3	



WORKING RANGE DIAGRAM OF FJ OPERATING CONDITION



Lifting height working range curve

FJ OPERATING CONDITION LOAD CHART

Load Chart Of SCC8100 FJ Operating Condition – jib 13m

Unit: (t)

		BOOM No. 2119B + JIB No.0908A								
Radius (m)	27	33	38.5	47.5	53	59	64.5	70.5	Radius (m)	
10	25/10.6	24.3/11.7	-	-	-	-	-	-	10	
12	23.9	23.5	22.7/12.6	-	-	-	-	-	12	
14	22.7	22.3	22.1	21.3/14.2	20/15.2	-	-	-	14	
16	21.7	21.5	21.3	21.1	19.9	19.5/16.2	19.2/17.2	-	16	
18	20.8	20.5	20.2	19.7	19.5	19.1	19.1	18.3/18.2	18	
20	20.1	19.9	19.6	19.2	18.9	18.7	18.3	18.1	20	
22	19.4	19.2	19	18.5	18.3	18.1	17.9	17.8	22	
24	18.8	18.7	18.5	18.1	17.9	17.6	17.3	17.2	24	
26	18.3	18.3	18.3	17.8	17.5	17.2	17	16.7	26	
28	17.8	17.7	17.5	17.3	17	16.8	16.5	16.3	28	
30	17.5	17.3	17.2	16.9	16.6	16.3	16.1	16	30	
32	17.2	17.1	16.9	16.5	16.1	15.9	15.7	15.3	32	
34	17	17.2	16.9	16.3	16	15.4	14.8	14	34	
36	16.2	15.9	15.6	15	14.7	14.3	13.7	12.9	36	
38	-	14.7	14.5	13.9	13.6	13.2	12.7	11.9	38	
40	-	13.7	13.4	12.8	12.6	12.1	11.7	11	40	
42	-	12.7	12.5	11.9	11.6	11.2	10.9	10.2	42	
44	-	-	11.6	11.1	10.8	10.4	10.1	9.4	44	
46	-	-	10.9	10.3	10	9.6	9.3	8.7	46	
48	-	-	-	9.6	9.3	8.9	8.6	8.1	48	
50	-	-	-	8.9	8.7	8.3	8	7.5	50	
52	-	-	-	8.3	8.1	7.7	7.4	6.9	52	
54	-	-	-	7.8	7.5	7.1	6.8	6.4	54	
56	-	-	-	-	7	6.6	6.3	5.9	56	
58	-	-	-	-	6.5	6.1	5.9	5.4	58	
60	-	-	-	-	6.1	5.7	5.4	5	60	
62	-	-	-	-	-	5.3	5	4.6	62	
64	-	-	-	-	-	4.9	4.6	4.2	64	
66	-	-	-	-	-	-	4.3	3.8	66	
68	-	-	-	-	-	-	3.9	3.5	68	
70	-	-	-	-	-	-	3.6	3.2	70	
72	-	-	-	-	-	-	-	2.9	72	
74	-	-	-	-	-	-	-	2.6	74	

Notes:

- 1) The actual weight is that the rated lifting capacity in the table deducted by the total weight of the lifting hook, hangers and wire ropes winding on the lifting hook and tip.
- 2) The rated load in above table is a value of load being slowly and stably lifted from the level and solid ground.



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