



SANY CRAWLER CRANE SCC8100-2

CRAWLER CRANE CONTENT

P3

SCC8100-2 Crawler Crane

Outline Dimensions
Technical Features
Performance Parameters
Transportation Dimensions
Transport loading table
Self-assembly Diagram Of Basic Machine
Boom System Installation Diagram

P18

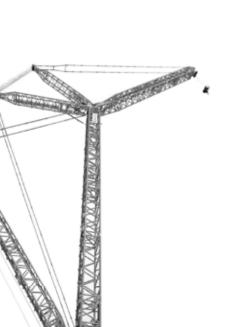
Specifications

Detailed Introduction Undercarriage Operation Devices Safety Devices

P25

Operating Condition Combination

Operating Condition Combination
H Operating Condition
Fixed Jib FJ Operating Condition

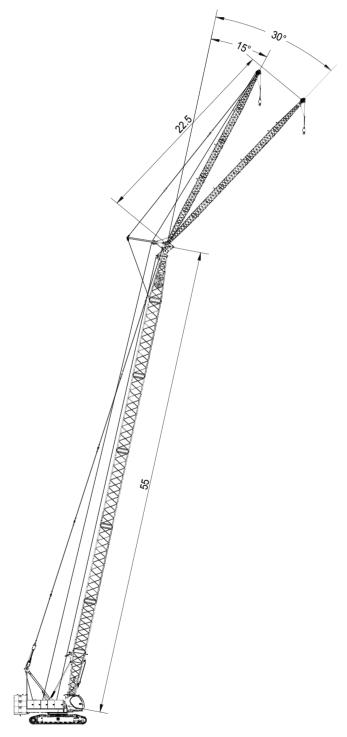




OUTLINE DIMENSIONS

4250 (Expended dimension) 2500 (Retracted dimension) 7966 5661

OUTLINE DIMENSIONS



Boom + Fixed Jib FJ Operating Condition Combination (55m boom + 22.5m fixed jib)

TECHNICAL FEATURES

1. Highly Secured Control System:

There are two operation modes, working and assembly for your convenience. It features with grounding pressure and levelness real-time display, machine-leaving stop action, emergency electrical control, protection against lightning strike, and automatic regulation of traveling direction, with complete set of safety and monitoring device.

2. Excellent Operation Performance:

Constant power control, pressure cutting-off, and electrical proportional control displacement are used, to ensure more stable operation.

3. Reliable Function Assurance:

All key parts adopt international well-known brands. The safety margin in structural design is sufficient; the control system is fully capable to function stably in extreme weather, such as high-and-cold, high-temperature, and high plateau weather;

4. Convenient Maintenance Access:

It takes no more than 10min/person to adjust, no more than 30 min/person for daily maintenance and no more than 2h/person to repair the machine.

5. Powerful lifting capacity:

The maximum lifting capacity of boom is $100t\times3.8m=380t$ ·m, the longest boom is 70m; length of longest boom + jib is 55m +22.5m; rated single rope pull of the main and auxiliary is powerful.

6.Flexible Configuration Combination:

Free fall winch is optional for main and auxiliary lifting winches.

7. Large Chassis Design:

Broaden track frame design ensures excellent machine performance and stability within 360° rotation.

8.Optimized Transportation Programs:

With telescopic crawler, the maximum transportation width of whole machine is 3.49m, ensuring it to be transported wholly.

9. Reliable drive system:

International well-known brand hydraulic technology is used, to ensure higher stable and reliable system.

10. Multiple optional configuration:

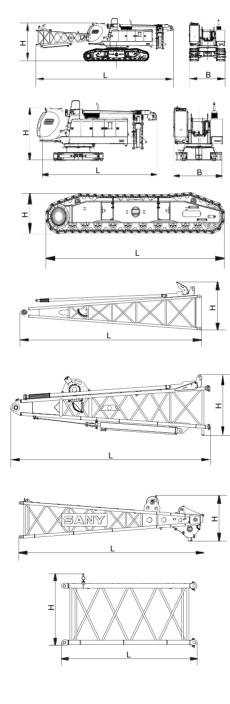
Third winch and angle iron boom are optional.

PERFORMANCE PARAMETERS

Main technical parameters of SCC8100-2 crawler crane							
Technical performa	ance index	Unit	Parameter				
Boom	Max. Rated Lifting Capacity	t	100				
	Max. Rated Lifting Torque	t·m	380				
Operating Condition	Boom length	m	70				
Condition	Boom luffing angle	0	20-80				
Fixed jib	Max. Rated Lifting Capacity	t	8.5				
operating	Fixed jib length	m	22.5				
condition	Boom luffing angle	0	30~80				
(optional)	Angle between fixed jib and boom	0	15/30				
	Main hoisting rope speed (free fall)	m/min	0~116				
	Boom luffing rope speed	m/min	79				
	Slewing speed	rpm	2.66				
Working speed	Traveling speed	km/h	0~2				
	Gradient capability	%	30				
	Engine model	-	QSL 9.0				
	Max. Rated Lifting Capacity Max. Rated Lifting Torque Boom length Boom luffing angle Max. Rated Lifting Capacity Fixed jib length Boom luffing angle Angle between fixed jib and boom Main hoisting rope speed (free fall) Boom luffing rope speed Slewing speed Gradient capability	kW/rpm	242/1800				
	Overall weight	t	88				
Transport	Basic machine counterweight	t	27.4+10				
parameters	Max. transportation Weight of Single Piece	t	45				
	Transportation Dimension (L×B×H)	m	13.23×3.49×3.49				

TRANSPORTATION DIMENSIONS

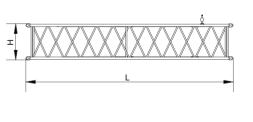
Basic Machine (with track frame)	×1
Length	13.23m
Width	3.49m
Height	3.49m
Weight	45t
Basic Machine (without track frame)	×1
Length	7.97m
Width	3.36m
Height	3.05m
Weight	26t
Track frames	×2
Length	6.29m
Width	1.09m
Height	1.20m
Weight	9.5t
Boom base NO.1513A	×1
Length	6.73m
Width	1.61m
Height	2.18m
Weight	2.18t
Boom Base(include third winch)	×1
Length	6,73m
Width	1.61m
Height	2.18m
Weight	3.44t
Boom tip NO.1513A	×1
Length	7.11m
Width	1.61m
Height	1.76m
Weight	1.5t
3m Boom insert NO.1513A	×2
Length	3.14m
Width	1.61m
Height	1.64m
Weight	0.43t

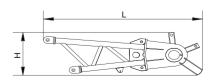


TRANSPORTATION DIMENSIONS

6m Boom insert NO.1513A	×1
Length	6.14m
Width	1.61m
Height	1.64m
Weight	0.7t
9m Boom insert NO.1513A	×5
Length	9.14m
Width	1.61m
Height	1.64m
Weight	0.94t
9m Boom insert II NO.1513A	×1
Length	9.14m
Width	1.61m
Height	1.64m
Weight	0.94t
Jib tip NO.0807A	×1
Length	4.875m
Width	0.87m
Height	0.77m
Weight	0.33t
Jib base NO.0807A	×1
Length	4.73m
Width	0.89m
Height	0.77m
Weight	0.3t
4.5m jib insert NO.0807A	×3
Length	4.57m
Width	0.87m
Height	0.77m
Weight	0.21t
Jib extension	×1
Length	1.89m
Width	0.74m
Height	0.64m
Weight	0.18t

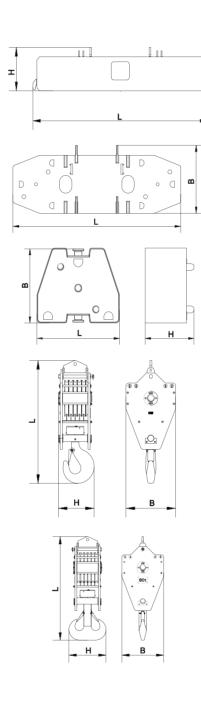
T L
L
T L
L
L





TRANSPORTATION DIMENSIONS

Central counterweight blocks	×2
Length	3.56m
Width	0.39m
Height	0.73m
Weight	5t
Counterweight tray	×1
Length	4.3m
Width	1.59m
Height	0.62m
Weight	10t
Counterweight blocks	×6
Length	1.36m
Width	1.09m
Height	0.80m
Weight	2.9t
100t lifting hook	×1
Length	2.09m
Width	0.85m
Height	0.62m
Weight	1.41t
80t lifting hook	×1
Length	2.1m
Width	0.85m
Height	0.75m
Weight	1.45t

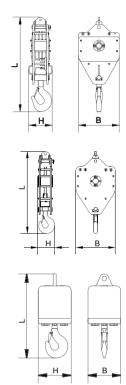


5	0t lifting hook	×1
L	ength	2.0m
V	Vidth	0.85m
Н	Height	0.49m
V	Veight	1.02t
2	5t lifting hook	×1
L	ength	1.79m
V	Vidth	0.89m
Н	Height	0.36m
V	Veight	0.56t
9	t ball hook	×1
L	ength	0.93m
V	Vidth	0.36m
Н	Height	0.36m
V	Veight	0.34t



- 1. The transportation dimensions are not drawn to proportion. The
- dimensions in the sketch are design value excluding packages.

 2. The weight is design value and there may be tiny difference due to the manufacturing calibration.



TRANSPORT LOADING TABLE

Table 1 Table of transport loading including track frame

	Transport loading table (with track frame)						
Name	Weight (t)	1	2	3	4	5	
Basic machine (with track frame)	45	1					
Rear counterweight tray	10		1				
Central counterweight blocks	5		1			1	
Counterweight blocks	2.9			2	2	2	
Boom tip	1.5		1				
3m boom insert	0.43			1		1	
6m boom insert	0.7					1	
9m boom insert	0.94			2	2	1	
Fixed jib tip	0.33			1			
Fixed jib base	0.6				1		
4.5m fixed jib	0.21			2			
Jib extension	0.18				1		
100t hook	1.41			1			
80t hook	1.45				1		
50t hook	1.02				1		
25t hook	0.56				1		
9t ball hook	0.34			1			
Transport weight per vehicle (t)		45	16.5	10.61	11.49	12.87	

TRANSPORT LOADING TABLE

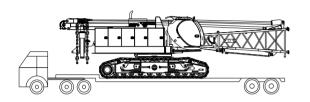
Table 2 Transport loading table without track frame

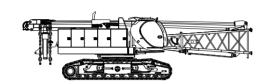
Transport loading table (without track frame)								
Name	Weight (t)	1	2	3	4	5	6	
Basic machine (without track frame)	26	1						
Track frame	9.5						2	
Boom base	2.18						1	
Rear counterweight tray	10		1					
Central counterweight blocks	5		1			1		
Counterweight blocks	2.9			2	2	2		
Boom tip	1.5		1					
3m boom insert	0.43			1		1		
6m boom insert	0.7					1		
9m boom insert	0.94			2	2	1		
Fixed jib tip	0.33			1				
Fixed jib base	0.6				1			
4.5m fixed jib	0.21			2				
Jib extension	0.18				1			
100t hook	1.41			1				
80t hook	1.45				1			
50t hook	1.02				1			
25t hook	0.56				1			
9t ball hook	0.34			1				
Transport weight per vehicle (t)		26	16.5	10.61	11.49	12.87	21.18	

BASIC MACHINE SELF-ASSEMBLY AND DISASSEMBLY DIAGRAM

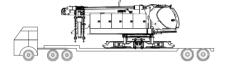
1) Basic Machine Self-Assembly and Disassembly

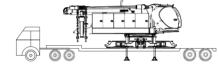
Method 1 (transportation including track frame) Basic machine traveling undercarriage

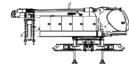




Method 2 (transportation with track frame removed)

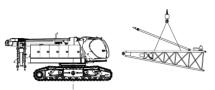


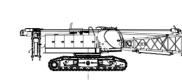


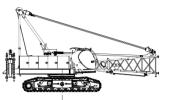


BASIC MACHINE SELF-ASSEMBLY AND DISASSEMBLY DIAGRAM

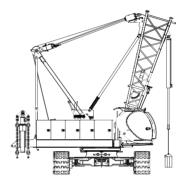
2) Installation of boom base

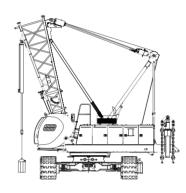


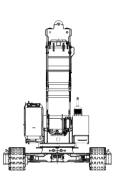




3) Assembly and disassembly of central counterweight

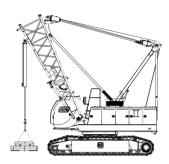


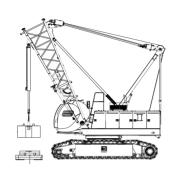


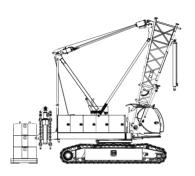


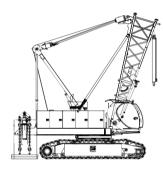
BASIC MACHINE SELF-ASSEMBLY AND DISASSEMBLY DIAGRAM

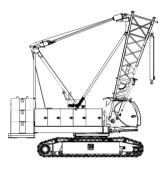
4) Assembly and disassembly of rear counterweight





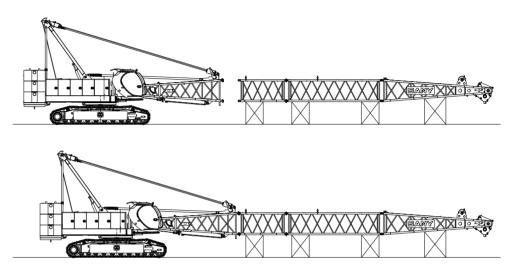


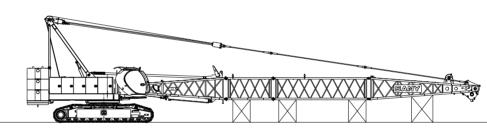




BOOM SYSTEM INSTALLATION DIAGRAM

1) Installation of boom system under H operating condition





2) Installation of boom system under FJ operating condition







DETAILED INTRODUCTION

1) Engine

- Imported Commins, QSL9-C325;
- Rated power / Speed: 242kW/1800rpm;
- Max. torque: 1424N·m/1400rpm;
- Emission Standard: Tier3;
- Air filter: Air pre-filter and air filter constitute the double-stage filtering system;
- Fuel Tank: 400L.

2) Electrical Control System

■ The CAN bus technology is applied for data communication between controlled, combined instrument, engine, and load moment limiter etc. control terminals. Display can show engine speed, fuel level, oil pressure, servo pressure, wind speed, and engine working time etc. working parameters, and main winch locking, boom luffing locking, slewing locking etc. working state. The self-diagnosis system is used. Once the system fails, alarm will be issued to the operator until the fault is eliminated.

3) Hydraulic System

- Well-known brand hydraulic components are adopted, including main pump, main valve, joystick and motor reducer, which are efficient, reliable, stable and energy-saving.
- It has the excellent slewing and lifting inching performance, with constant power, pressure cuttingof, and electrical proportional control displacement applied to ensure more stable operation.
- Independently controlled hydraulic oil cooling system is used.

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.
- Motor reducer of domestic well-known mature brand is adopted for higher reliability and durability.
- Free fall is optional for main winch, or simultaneously for main and auxiliary winches;
- The folded drum design ensures the multi-layer winding is always in order;
- Steel wire of domestic well-known brand is adopted for higher reliability and durability.

NO.1 Main and auxiliary hoisting mechanisms

Rope speed of the outermost working layer	0~116m/min
Wire rope diameter	φ24mm
Length of main / auxiliary wire rope	240m/160m

Rate single line pull 10.8T

DETAILED INTRODUCTION

5) Luffing Machanism

- 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.
- Motor reducer and steel wire of well-known brands are adopted for higher reliability and durability.
- The folded drum design ensures the multi-layer winding is always in order;
- Steel wire of domestic well-known brand is adopted for higher reliability and durability.

NO.2 Luffing Mechanism

Rope speed of the outermost working layer	0~79m/min
Wire rope diameter	φ20mm
Wire rope length of luffing winch	140m
Rated single line pull	7.0T

6) Swing Mechanism

- The inner toothing swing drive can rotate 360°
- Motor reducer and steel wire of well-known brands are adopted for higher reliability and durability.
- Swing Locking Device: Hydraulic locking pin can lock the superstructure reliably after the completion of the operation and transportation.
- Free Slewing Function: While hoisting, in case of imbalance, free slewing function can automatically reposition the upper structure to avoid movement of the load.
- Slewing ring: Single-row ball-type Q series slewing ring is used.

7) Counterweight

- The superposable tray and counterweight blocks are easy to assembly and disassembly.
- Rear counterweight: weight of rear counterweight of 27.4T; composition: Tray 10T×1, Counterweight block 2.9t×6; central counterweight block 5T×2.

8) 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: Suspension, multimode and multistage adjustable seat is adopted, with unloading switch
- Air conditioning provides heating and cooling air with optimized air duct and air outlet.

UNDERCARRIAGE

1) Telescopic Track:

Independent traveling driving device is equipped for crawler track on both sides. Straight traveling and steering are controlled by traveling motor through reducer and driving wheel.

2) Crawler Tensioning:

Crawler tension can be adjusted by using hydraulic jack to push guide wheel to adjust clearance between shims

3) Crawler Shoes:

High strength alloy steel with higher durability.

If no any transport weight is limited, crawler frame can be telescopic when transportation, to achieve the overall transportation of the basic machine including crawler frame, thus reducing assembly and disassembly time.

OPERATION DEVICES

1) Boom

- Lattice structure; main chord made of high strength structure steel; each section is connected with pins.
- Basic boom: 6.5m boom tip and 6.5m boom base;
- Insert: 3m×2, 6m×1, 9m (1)×5, 9m (11) ×1
- Boom Length: 13m~70m.

2) Fixed Jib

- Lattice structure; main chord made of high strength structure steel; each section is connected with pins.
- Basic jib: 4.5m jib tip + 4.5m jib base;
- Insert: 4.5m×3;
- Jib length: 9m~22.5m;
- Longest boom + Jib: 55m boom + 22.5 jib.

3) Lifting hook

- 100t lifting hook
- 80t lifting hook
- 50t lifting hook
- 25t lifting hook
- 9t ball hook

Notes

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

SAFETY DEVICES

1) Assemble/Operation Mode Change 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) Load Moment Indicator

- As an independent safety control system fully controlled by computer, the load moment indicator can detect automatically and show crane load, lifting boom angle, rated and actual loads, working radius and boom angle.
- Function: To show the rated load, actual load, working radius, and lifting boom angle and height etc. data in real time under crane current state, and to automatically detect the luffing angle out-of-limit, and overload etc. dynamic data, and to give an alarm timely to limit the action.

4) 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.

5) 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.

6) Function Lock

- If the function locking handle is not at proper position, all control handles will not function. It can prevent misuse and operational accident due to body impact when getting on or off the cab.
- If operator is not sited on the seat, all function can not work, to effectively avoid some mis-operation.

7) 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.

8) Swing Locking Device

It can lock the machine at the front, back, left and right direction. Electrical control interlock is used for slewing pin and slewing action, to avoid mis-operation.

9) A-frame alarm device

In assembly mode, if A-frame can not lift to the proper position, the working mode is activated, system will give an alarm through buzzer and display to deactivate all actions.

10) Boom Angle Limiter

when boom angle is more than 81° , buzzer would alarm and the boom hoisting would be stop, this protection is controlled by moment limiter and approach switch.

When boom angle is less than 20° , 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 indication automatically.

11) 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

12) Boom Angle Indicator

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

13) Hook Latch

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

14) Monitoring System

- Camera: There are two cameras to detect the auxiliary winch, luffing winch and rear state of the entire crane respectively.
- Optional monitoring: Zoom monitoring system is used, to monitor the working status of the hook.

15) Lightning Protection Device

It includes the lighting ground protection device and surge protective device, to effectively prevent damage to electrical system components and operators in the case of a lighting strike.

16) Level gauge

Electronic level gauge is used, to show the superstructure tilting angle on the display.

17) 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.

18) Audio and Visual Alarm

When the engine is working, the lamp will flash; when traveling or slewing, sound alarm will be given.

19) Slewing Alarm

When the machine is traveling or slewing, the slewing lamp 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

22) Pharos

It is on the top of boom for altitude lightning.

23) Seat-leaving protection

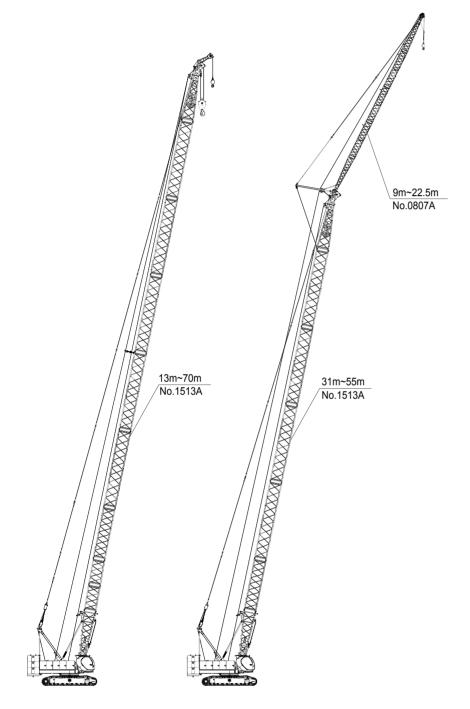
If operator is not sited on the seat, all function can not be activated, to effectively avoid some mis-operation.

24) Anemometer

It is on the top of boom to monitor the wind speed in real time and to transfer data to the display in cab.



OPERATING CONDITION COMBINATION



Length of the longest round steel boom under H operating condition is 70m

Length of the longest combination under FJ fixed jib operation condition is 55m + 22.5m

HOPERATING CONDITION

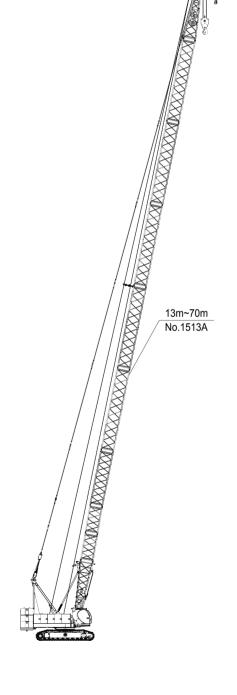
Boom combination under H operating condition

Boom length		Boom insert		
m	3	6	9(1)	9(11)
13	-	-	-	-
16	1	_	-	_
19	-	1	-	-
22	-	-	1	-
25	1	-	1	-
28	-	1	1	-
31	1	1	1	_
34	1	-	2	-
37	-	1	2	_
40	1	1	2	-
43	1	-	3	-
46	-	1	3	-
49	1	1	3	_
52	1	-	4	-
55	-	1	4	_
58	1	1	4	-
61	1	-	5	-
64	-	1	4	1
67	1	1	4	1
70	2	1	4	1

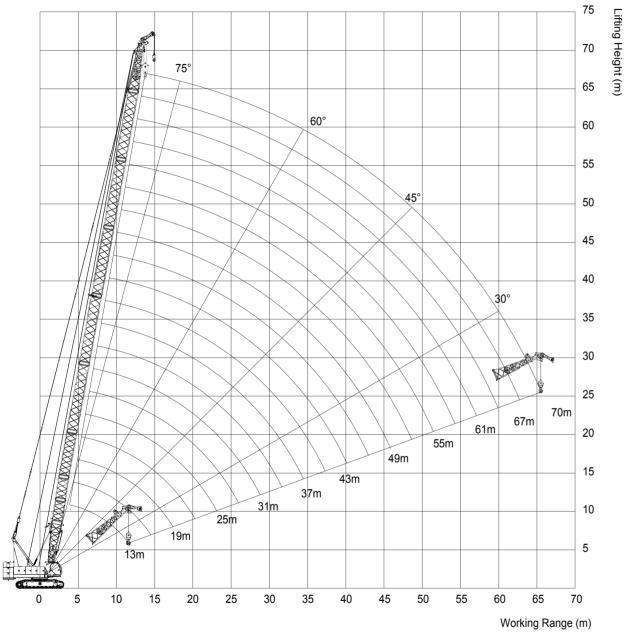
Notes:

No waist rope connecting seat at ends of joint of the 9m (1) boom insert;

Waist rope connecting seat applied at ends of joint of the 9m (II) boom insert;



OPERATING RANGE DIAGRAM OF HOPERATING CONDITION



Lifting Height – Working Range Curve

BOOM LOAD CHART (H OPERATING CONDITION)

SCC8100-2 Boom Series Two Load Chart BOOM No.1513A

Unit: t

Readius					Boom No.	1513A	27.4t+10.0t	360°				Oint. t
4.0 90.0 4.0 4.5 80.0 4.5 5.0 75.0 75.0 75.0		13	19	25	31	37	43	49	55	61	67	
4.5 80.0	3.8	100.0	-	-	-	-	-	-	-	-	-	3.8
5.0 75.0 75.0 -	4.0	90.0	-	-	-	-	-	-	-	-	-	4.0
5.5 68.9 67.1 -	4.5	80.0	-	-	-	-	-	-	-	-	-	4.5
6.0 62.5 60.2 60.0 - <t< td=""><td>5.0</td><td>75.0</td><td>75.0</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>5.0</td></t<>	5.0	75.0	75.0	-	-	-	-	-	-	-	-	5.0
6.5 55.9 54.6 53.5 - <t< td=""><td>5.5</td><td>68.9</td><td>67.1</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>5.5</td></t<>	5.5	68.9	67.1	-	-	-	-	-	-	-	-	5.5
7.0 50.0 49.3 46.7 46.3 - - - - - 7.0 7.5 45.2 44.6 43.1 41.6 - - - - - - 7.5 8.0 41.3 40.7 40.1 38.5 36.2 - - - - - 9.0 9.0 35.0 34.6 34.1 33.2 32.1 31.1 - - - - 9.0 10.0 30.4 30.0 29.5 29.1 28.4 28.0 - - - - 10.0 11.0 26.8 26.4 26.0 25.6 25.2 24.9 24.6 - - - 11.0 12.0 23.9 23.5 23.2 22.8 22.4 21.8 21.4 21.0 - - 11.0 12.0 13.0 12.5 21.2 20.9 20.5 20.2 19.8 19	6.0	62.5	60.2	60.0	-	-	-	-	-	-	-	6.0
7.5 45.2 44.6 43.1 41.6 - - - - - - 7.5 8.0 8.0 41.3 40.7 40.1 38.5 36.2 - - - - - 8.0 9.0 35.0 34.6 34.1 33.2 32.1 31.1 - - - - 10.0 11.0 26.8 26.4 26.0 25.6 25.2 24.9 24.6 - - - 11.0 12.0 23.9 23.5 23.2 22.8 22.4 21.8 21.4 21.0 - - 12.0 13.0 21.5 21.2 20.9 20.5 20.2 19.8 19.5 19.2 18.5 - 13.0 14.0 - 19.3 18.9 18.6 18.3 17.9 17.7 17.3 16.8 15.4 14.0 15.0 - 16.2 15.9 15.6 <td>6.5</td> <td>55.9</td> <td>54.6</td> <td>53.5</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>6.5</td>	6.5	55.9	54.6	53.5	-	-	-	-	-	-	-	6.5
8.0 41.3 40.7 40.1 38.5 36.2 - - - - - - 9.0 9.0 35.0 34.6 34.1 33.2 32.1 31.1 - - - - 9.0 10.0 30.4 30.0 29.5 29.1 28.4 28.0 - - - - 10.0 11.0 26.8 26.4 26.0 25.6 25.2 24.9 24.6 - - - 11.0 12.0 23.9 23.5 23.2 22.8 22.4 21.4 21.0 - - 112.0 13.0 21.5 21.2 20.9 20.5 20.2 19.8 19.5 19.2 18.5 - 13.0 14.0 - 19.3 18.9 18.6 18.3 17.7 17.3 16.8 15.4 14.0 15.0 - 17.6 17.3 17.0 16.6 16.3 16.1 15.7 15.3 14.5 15.0 16.0 -	7.0	50.0	49.3	46.7	46.3	-	-	-	-	-	-	7.0
9.0 35.0 34.6 34.1 33.2 32.1 31.1 9.0 10.0 30.4 30.0 29.5 29.1 28.4 28.0 10.0 11.0 26.8 26.4 26.0 25.6 25.2 24.9 24.6 111.0 12.0 23.9 23.5 23.2 22.8 22.4 21.8 21.4 21.0 12.0 13.0 21.5 21.2 20.9 20.5 20.2 19.8 19.5 19.2 18.5 - 13.0 14.0 - 19.3 18.9 18.6 18.3 17.9 17.7 17.3 16.8 15.4 14.0 15.0 - 17.6 17.3 17.0 16.6 16.3 16.1 15.7 15.3 14.5 15.0 16.0 - 16.2 15.9 15.6 15.3 14.9 14.6 14.4 14.0 13.3 16.0 18.0 - 13.9 13.6 13.3 13.0 12.7 12.4 12.1 11.8 11.2 18.0 20.0 111.8 11.7 11.3 10.9 10.6 10.4 10.0 9.6 20.0 22.0 - 10.4 10.2 9.9 9.6 9.3 9.0 8.6 8.2 22.0 24.0 9.2 9.1 8.8 8.4 8.2 7.8 7.4 7.1 24.0 26.0 8.1 7.8 7.5 7.2 6.9 6.5 6.2 26.0 28.0 5.6 6.2 5.9 5.7 5.3 5.0 4.6 30.0 32.0 6.5 6.2 5.9 5.7 5.3 5.0 4.6 30.0 32.0 5.6 6.2 5.9 5.7 5.3 5.0 4.6 30.0 32.0 5.6 6.2 5.9 5.7 5.3 5.0 4.6 30.0 32.0 5.6 6.2 5.9 5.7 5.3 5.0 4.6 30.0 32.0 5.6 6.2 5.9 5.7 5.3 5.0 4.6 30.0 32.0 5.6 6.2 5.9 5.7 5.3 5.0 4.6 30.0 32.0 5.6 6.2 5.9 5.7 5.3 5.0 4.6 30.0 32.0 5.6 6.2 5.9 5.7 5.3 5.0 4.6 30.0 32.0 5.6 6.2 5.9 5.7 5.3 5.0 4.6 30.0 32.0 5.6 6.2 5.9 5.7 5.3 5.0 4.6 30.0 32.0 5.6 6.2 5.9 5.7 5.3 5.0 4.6 30.0 32.0 5.6 6.2 5.9 5.7 5.3 5.0 4.6 30.0 32.0 5.6 6.2 5.9 5.7 5.3 5.0 4.6 30.0 32.0 5.6 5.3 5.0 4.7 4.3 4.0 32.0 34.0 5.6 6.2 5.9 5.7 5.3 5.0 4.6 30.0 32.0 5.6 6.2 5.9 5.7 5.3 5.0 4.6 30.0 32.0 5.6 6.2 5.9 5.7 5.3 5.0 4.6 30.0 32.0 5.6 6.2 5.9 5.7 5.3 5.0 4.6 30.0 32.0 5.6 5.2 2.2 40.0 34.0 2.8 2.2 2.9 2.5 2.2 40.0 34.0 2.9 2.6 2.2 1.9 1.6 44.0	7.5	45.2	44.6	43.1	41.6	-	-	-	-	-	-	7.5
10.0 30.4 30.0 29.5 29.1 28.4 28.0 - - - - 10.0 11.0 26.8 26.4 26.0 25.6 25.2 24.9 24.6 - - - 11.0 12.0 23.9 23.5 23.2 22.8 22.4 21.8 21.4 21.0 - - 12.0 13.0 21.5 21.2 20.9 20.5 20.2 19.8 19.5 19.2 18.5 - 13.0 14.0 - 19.3 18.9 18.6 18.3 17.9 17.7 17.3 16.8 15.4 14.0 15.0 - 17.6 17.3 17.0 16.6 16.3 16.1 15.7 15.3 14.5 15.0 16.0 - 16.2 15.9 15.6 15.3 14.9 14.6 14.4 14.0 13.3 16.0 18.0 - 13.9 13.6	8.0	41.3	40.7	40.1	38.5	36.2	-	-	-	-	-	8.0
11.0 26.8 26.4 26.0 25.6 25.2 24.9 24.6 - - - 11.0 12.0 23.9 23.5 23.2 22.8 22.4 21.8 21.4 21.0 - - 12.0 13.0 21.5 21.2 20.9 20.5 20.2 19.8 19.5 19.2 18.5 - 13.0 14.0 - 19.3 18.9 18.6 18.3 17.9 17.7 17.3 16.8 15.4 14.0 15.0 - 17.6 17.3 17.0 16.6 16.3 16.1 15.7 15.3 14.5 15.0 16.0 - 16.2 15.9 15.6 15.3 14.9 14.6 14.4 14.0 13.3 16.0 18.0 - 13.9 13.6 13.3 13.0 12.7 12.4 12.1 11.8 11.2 18.0 20.0 - - 11.8	9.0	35.0	34.6	34.1	33.2	32.1	31.1	-	-	-	-	9.0
12.0 23.9 23.5 23.2 22.8 22.4 21.8 21.4 21.0 - - 12.0 13.0 21.5 21.2 20.9 20.5 20.2 19.8 19.5 19.2 18.5 - 13.0 14.0 - 19.3 18.9 18.6 18.3 17.9 17.7 17.3 16.8 15.4 14.0 15.0 - 17.6 17.3 17.0 16.6 16.3 16.1 15.7 15.3 14.5 15.0 16.0 - 16.2 15.9 15.6 15.3 14.9 14.6 14.4 14.0 13.3 16.0 18.0 - 13.9 13.6 13.3 13.0 12.7 12.4 12.1 11.8 11.2 18.0 20.0 - - 11.8 11.7 11.3 10.9 10.6 10.4 10.0 9.6 20.0 22.0 - - 9.2	10.0	30.4	30.0	29.5	29.1	28.4	28.0	-	-	-	-	10.0
13.0 21.5 21.2 20.9 20.5 20.2 19.8 19.5 19.2 18.5 - 13.0 14.0 - 19.3 18.9 18.6 18.3 17.9 17.7 17.3 16.8 15.4 14.0 15.0 - 17.6 17.3 17.0 16.6 16.3 16.1 15.7 15.3 14.5 15.0 16.0 - 16.2 15.9 15.6 15.3 14.9 14.6 14.4 14.0 13.3 16.0 18.0 - 13.9 13.6 13.3 13.0 12.7 12.4 12.1 11.8 11.2 18.0 20.0 - - 11.8 11.7 11.3 10.9 10.6 10.4 10.0 9.6 20.0 22.0 - - 10.4 10.2 9.9 9.6 9.3 9.0 8.6 8.2 22.0 24.0 - - 9.2	11.0	26.8	26.4	26.0	25.6	25.2	24.9	24.6	-	-	-	11.0
14.0 - 19.3 18.9 18.6 18.3 17.9 17.7 17.3 16.8 15.4 14.0 15.0 - 17.6 17.3 17.0 16.6 16.3 16.1 15.7 15.3 14.5 15.0 16.0 - 16.2 15.9 15.6 15.3 14.9 14.6 14.4 14.0 13.3 16.0 18.0 - 13.9 13.6 13.3 13.0 12.7 12.4 12.1 11.8 11.2 18.0 20.0 - - 11.8 11.7 11.3 10.9 10.6 10.4 10.0 9.6 20.0 22.0 - - 10.4 10.2 9.9 9.6 9.3 9.0 8.6 8.2 22.0 24.0 - - 9.2 9.1 8.8 8.4 8.2 7.8 7.4 7.1 24.0 26.0 - - 8.1 7.8 <td>12.0</td> <td>23.9</td> <td>23.5</td> <td>23.2</td> <td>22.8</td> <td>22.4</td> <td>21.8</td> <td>21.4</td> <td>21.0</td> <td>-</td> <td>-</td> <td>12.0</td>	12.0	23.9	23.5	23.2	22.8	22.4	21.8	21.4	21.0	-	-	12.0
15.0 - 17.6 17.3 17.0 16.6 16.3 16.1 15.7 15.3 14.5 15.0 16.0 - 16.2 15.9 15.6 15.3 14.9 14.6 14.4 14.0 13.3 16.0 18.0 - 13.9 13.6 13.3 13.0 12.7 12.4 12.1 11.8 11.2 18.0 20.0 - - 11.8 11.7 11.3 10.9 10.6 10.4 10.0 9.6 20.0 22.0 - - 10.4 10.2 9.9 9.6 9.3 9.0 8.6 8.2 22.0 24.0 - - 9.2 9.1 8.8 8.4 8.2 7.8 7.4 7.1 24.0 26.0 - - - 8.1 7.8 7.5 7.2 6.9 6.5 6.2 26.0 28.0 - - - 6.5	13.0	21.5	21.2	20.9	20.5	20.2	19.8	19.5	19.2	18.5	-	13.0
16.0 - 16.2 15.9 15.6 15.3 14.9 14.6 14.4 14.0 13.3 16.0 18.0 - 13.9 13.6 13.3 13.0 12.7 12.4 12.1 11.8 11.2 18.0 20.0 - - 11.8 11.7 11.3 10.9 10.6 10.4 10.0 9.6 20.0 22.0 - - 10.4 10.2 9.9 9.6 9.3 9.0 8.6 8.2 22.0 24.0 - - 9.2 9.1 8.8 8.4 8.2 7.8 7.4 7.1 24.0 26.0 - - - 8.1 7.8 7.5 7.2 6.9 6.5 6.2 26.0 28.0 - - - 7.3 6.9 6.6 6.4 6.0 5.7 5.3 28.0 30.0 - - - - 5.6	14.0	-	19.3	18.9	18.6	18.3	17.9	17.7	17.3	16.8	15.4	14.0
18.0 - 13.9 13.6 13.3 13.0 12.7 12.4 12.1 11.8 11.2 18.0 20.0 - - 11.8 11.7 11.3 10.9 10.6 10.4 10.0 9.6 20.0 22.0 - - 10.4 10.2 9.9 9.6 9.3 9.0 8.6 8.2 22.0 24.0 - - 9.2 9.1 8.8 8.4 8.2 7.8 7.4 7.1 24.0 26.0 - - 8.1 7.8 7.5 7.2 6.9 6.5 6.2 26.0 28.0 - - 7.3 6.9 6.6 6.4 6.0 5.7 5.3 28.0 30.0 - - 6.5 6.2 5.9 5.7 5.3 5.0 4.6 30.0 32.0 - - - 5.6 5.3 5.0 4.7 4.3 <td< td=""><td>15.0</td><td>-</td><td>17.6</td><td>17.3</td><td>17.0</td><td>16.6</td><td>16.3</td><td>16.1</td><td>15.7</td><td>15.3</td><td>14.5</td><td>15.0</td></td<>	15.0	-	17.6	17.3	17.0	16.6	16.3	16.1	15.7	15.3	14.5	15.0
20.0 - 11.8 11.7 11.3 10.9 10.6 10.4 10.0 9.6 20.0 22.0 - - 10.4 10.2 9.9 9.6 9.3 9.0 8.6 8.2 22.0 24.0 - - 9.2 9.1 8.8 8.4 8.2 7.8 7.4 7.1 24.0 26.0 - - 8.1 7.8 7.5 7.2 6.9 6.5 6.2 26.0 28.0 - - - 8.1 7.8 7.5 7.2 6.9 6.5 6.2 26.0 28.0 - - - 8.1 7.8 7.5 7.2 6.9 6.5 6.2 26.0 28.0 - - - 6.5 6.2 5.9 5.7 5.3 5.0 4.6 30.0 30.0 - - - - 5.6 5.3 5.0 4.7	16.0	-	16.2	15.9	15.6	15.3	14.9	14.6	14.4	14.0	13.3	16.0
22.0 - - 10.4 10.2 9.9 9.6 9.3 9.0 8.6 8.2 22.0 24.0 - - 9.2 9.1 8.8 8.4 8.2 7.8 7.4 7.1 24.0 26.0 - - - 8.1 7.8 7.5 7.2 6.9 6.5 6.2 26.0 28.0 - - - 7.3 6.9 6.6 6.4 6.0 5.7 5.3 28.0 30.0 - - - 6.5 6.2 5.9 5.7 5.3 5.0 4.6 30.0 32.0 - - - - 5.6 5.3 5.0 4.7 4.3 4.0 32.0 34.0 - - - - 5.1 4.8 4.5 4.2 3.8 3.5 34.0 36.0 - - - - 4.6 4.3 4.0 3.7 3.3 3.0 36.0 38.0 - - -	18.0	-	13.9	13.6	13.3	13.0	12.7	12.4	12.1	11.8	11.2	18.0
24.0 - - 9.2 9.1 8.8 8.4 8.2 7.8 7.4 7.1 24.0 26.0 - - - 8.1 7.8 7.5 7.2 6.9 6.5 6.2 26.0 28.0 - - - 7.3 6.9 6.6 6.4 6.0 5.7 5.3 28.0 30.0 - - - 6.5 6.2 5.9 5.7 5.3 5.0 4.6 30.0 32.0 - - - - 5.6 5.3 5.0 4.7 4.3 4.0 32.0 34.0 - - - - 5.1 4.8 4.5 4.2 3.8 3.5 34.0 36.0 - - - - 4.6 4.3 4.0 3.7 3.3 3.0 36.0 38.0 - - - - - 3.9 3.6 3.3 2.9 2.6 38.0 40.0 - - - -	20.0	-	-	11.8	11.7	11.3	10.9	10.6	10.4	10.0	9.6	20.0
26.0 - - - 8.1 7.8 7.5 7.2 6.9 6.5 6.2 26.0 28.0 - - - 7.3 6.9 6.6 6.4 6.0 5.7 5.3 28.0 30.0 - - - 6.5 6.2 5.9 5.7 5.3 5.0 4.6 30.0 32.0 - - - - 5.6 5.3 5.0 4.7 4.3 4.0 32.0 34.0 - - - - 5.1 4.8 4.5 4.2 3.8 3.5 34.0 36.0 - - - - 4.6 4.3 4.0 3.7 3.3 3.0 36.0 38.0 - - - - - 3.9 3.6 3.3 2.9 2.6 38.0 40.0 - - - - - 3.5 3.2 2.9 2.5 2.2 40.0 42.0 - - - - <	22.0	-	-	10.4	10.2	9.9	9.6	9.3	9.0	8.6	8.2	22.0
28.0 - - 7.3 6.9 6.6 6.4 6.0 5.7 5.3 28.0 30.0 - - - 6.5 6.2 5.9 5.7 5.3 5.0 4.6 30.0 32.0 - - - - 5.6 5.3 5.0 4.7 4.3 4.0 32.0 34.0 - - - - 5.1 4.8 4.5 4.2 3.8 3.5 34.0 36.0 - - - - 4.6 4.3 4.0 3.7 3.3 3.0 36.0 38.0 - - - - - 3.9 3.6 3.3 2.9 2.6 38.0 40.0 - - - - 3.5 3.2 2.9 2.5 2.2 40.0 42.0 - - - - - 2.9 2.6 2.2 1.9 42.0 44.0 - - - - - - 2.3 2	24.0	-	-	9.2	9.1	8.8	8.4	8.2	7.8	7.4	7.1	24.0
30.0 - - 6.5 6.2 5.9 5.7 5.3 5.0 4.6 30.0 32.0 - - - 5.6 5.3 5.0 4.7 4.3 4.0 32.0 34.0 - - - - 5.1 4.8 4.5 4.2 3.8 3.5 34.0 36.0 - - - - 4.6 4.3 4.0 3.7 3.3 3.0 36.0 38.0 - - - - - 3.9 3.6 3.3 2.9 2.6 38.0 40.0 - - - - - 3.5 3.2 2.9 2.5 2.2 40.0 42.0 - - - - - 2.9 2.6 2.2 1.9 42.0 44.0 - - - - - 2.6 2.2 1.9 1.6 44.0 46.0 - - - - - - - 1.7 1.3 <td>26.0</td> <td>-</td> <td>-</td> <td>-</td> <td>8.1</td> <td>7.8</td> <td>7.5</td> <td>7.2</td> <td>6.9</td> <td>6.5</td> <td>6.2</td> <td>26.0</td>	26.0	-	-	-	8.1	7.8	7.5	7.2	6.9	6.5	6.2	26.0
32.0 - - - 5.6 5.3 5.0 4.7 4.3 4.0 32.0 34.0 - - - - 5.1 4.8 4.5 4.2 3.8 3.5 34.0 36.0 - - - - 4.6 4.3 4.0 3.7 3.3 3.0 36.0 38.0 - - - - - 3.9 3.6 3.3 2.9 2.6 38.0 40.0 - - - - - 3.5 3.2 2.9 2.5 2.2 40.0 42.0 - - - - - 2.9 2.6 2.2 1.9 42.0 44.0 - - - - - 2.6 2.2 1.9 1.6 44.0 46.0 - - - - - 2.3 2.0 1.6 1.3 46.0 48.0 - - - - - - 1.7 1.3 1.0	28.0	-	-	-	7.3	6.9	6.6	6.4	6.0	5.7	5.3	28.0
34.0 - - - 5.1 4.8 4.5 4.2 3.8 3.5 34.0 36.0 - - - 4.6 4.3 4.0 3.7 3.3 3.0 36.0 38.0 - - - - - 3.9 3.6 3.3 2.9 2.6 38.0 40.0 - - - - - 3.5 3.2 2.9 2.5 2.2 40.0 42.0 - - - - - 2.9 2.6 2.2 1.9 42.0 44.0 - - - - - 2.6 2.2 1.9 1.6 44.0 46.0 - - - - - 2.3 2.0 1.6 1.3 46.0 48.0 - - - - - - 1.7 1.3 1.0 48.0 50.0 - - - - - - 1.5 1.1 - 50.0 <td>30.0</td> <td>-</td> <td>-</td> <td>-</td> <td>6.5</td> <td>6.2</td> <td>5.9</td> <td>5.7</td> <td>5.3</td> <td>5.0</td> <td>4.6</td> <td>30.0</td>	30.0	-	-	-	6.5	6.2	5.9	5.7	5.3	5.0	4.6	30.0
36.0 - - - 4.6 4.3 4.0 3.7 3.3 3.0 36.0 38.0 - - - - 3.9 3.6 3.3 2.9 2.6 38.0 40.0 - - - - - 3.5 3.2 2.9 2.5 2.2 40.0 42.0 - - - - - 2.9 2.6 2.2 1.9 42.0 44.0 - - - - - 2.6 2.2 1.9 1.6 44.0 46.0 - - - - - 2.3 2.0 1.6 1.3 46.0 48.0 - - - - - - 1.7 1.3 1.0 48.0 50.0 - - - - - - - 1.5 1.1 - 50.0	32.0	-	-	-	-	5.6	5.3	5.0	4.7	4.3	4.0	32.0
38.0 - - - - - 3.9 3.6 3.3 2.9 2.6 38.0 40.0 - - - - - 3.5 3.2 2.9 2.5 2.2 40.0 42.0 - - - - - 2.9 2.6 2.2 1.9 42.0 44.0 - - - - - 2.6 2.2 1.9 1.6 44.0 46.0 - - - - - 2.3 2.0 1.6 1.3 46.0 48.0 - - - - - 1.7 1.3 1.0 48.0 50.0 - - - - - - 1.5 1.1 - 50.0	34.0	-	-	-	-	5.1	4.8	4.5	4.2	3.8	3.5	34.0
40.0 - - - - 3.5 3.2 2.9 2.5 2.2 40.0 42.0 - - - - - 2.9 2.6 2.2 1.9 42.0 44.0 - - - - - 2.6 2.2 1.9 1.6 44.0 46.0 - - - - - 2.3 2.0 1.6 1.3 46.0 48.0 - - - - - 1.7 1.3 1.0 48.0 50.0 - - - - - 1.5 1.1 - 50.0	36.0	-	-	-	-	4.6	4.3	4.0	3.7	3.3	3.0	36.0
42.0 - - - - - 2.9 2.6 2.2 1.9 42.0 44.0 - - - - - 2.6 2.2 1.9 1.6 44.0 46.0 - - - - - 2.3 2.0 1.6 1.3 46.0 48.0 - - - - - 1.7 1.3 1.0 48.0 50.0 - - - - - - 1.5 1.1 - 50.0	38.0	-	-	-	-	-	3.9	3.6	3.3	2.9	2.6	38.0
44.0 - - - - - 2.6 2.2 1.9 1.6 44.0 46.0 - - - - - 2.3 2.0 1.6 1.3 46.0 48.0 - - - - - 1.7 1.3 1.0 48.0 50.0 - - - - - 1.5 1.1 - 50.0	40.0	-	-	-	-	-	3.5	3.2	2.9	2.5	2.2	40.0
46.0 - - - - - 2.3 2.0 1.6 1.3 46.0 48.0 - - - - - 1.7 1.3 1.0 48.0 50.0 - - - - - - 1.5 1.1 - 50.0	42.0	-	-	-	-	-	-	2.9	2.6	2.2	1.9	42.0
48.0 - - - - - 1.7 1.3 1.0 48.0 50.0 - - - - - - 1.5 1.1 - 50.0	44.0	-	-	-	-	-	-	2.6	2.2	1.9	1.6	44.0
50.0 1.5 1.1 - 50.0	46.0	-	-	-	-	-	-	2.3	2.0	1.6	1.3	46.0
	48.0	-	-	-	-	-	-	-	1.7	1.3	1.0	48.0
52.0 1.2 52.0	50.0	-	-	-	-	-	-	-	1.5	1.1	-	50.0
	52.0	-	-	-	-	-	-	-	1.2	-	-	52.0

Notes

- 1. The actual hoisting capacity of the crane is a value that the rated value in the table minus the total weights of hooks, slings, and wire ropes winding on the hook and boom tip.
- 2. The rated load in the table is the value under the condition that the non-traveling heavy load is lifted slowly and steadily from the solid and flat ground.

BOOM LOAD CHART (H OPERATING CONDITION)

SCC8100-2 Boom Series One Load Chart BOOM No.1513A

U	ı	ш	ι.	

				Boom No	.1513A	21.6t+0.0t	360°						
Radius m	13	19	25	31	37	43	46	49	55	58	Radius m		
3.8	90.0	-	-	-	-	-	-	-	-	-	3.8		
4.0	85.0	-	-	-	-	-	-	-	-	-	4.0		
4.5	77.6	69.1	-	-	-	-	-	-	-	-	4.5		
5.0	65.1	60.4	-	-	-	-	-	-	-	-	5.0		
5.5	55.4	53.6	49.1	-	-	-	-	-	-	-	5.5		
6.0	48.2	47.4	44.4	-	-	-	-	-	-	-	6.0		
6.5	42.5	41.9	40.5	37.7	-	-	-	-	-	-	6.5		
7.0	38.1	37.5	36.9	34.7	-	-	-	-	-	-	7.0		
7.5	34.4	33.9	33.4	32.2	30.2	-	-	-	-	-	7.5		
8.0	31.4	30.9	30.5	30.0	28.1	26.5	-	-	-	-	8.0		
9.0	26.6	26.2	25.8	25.5	24.7	23.3	22.7	-	-	-	9.0		
10.0	23.0	22.7	22.4	22.0	21.7	20.8	20.2	19.7	-	-	10.0		
11.0	20.3	20.0	19.7	19.4	19	18.7	18.2	17.7	16.7	16.2	11.0		
12.0	18.1	17.8	17.5	17.2	16.9	16.6	16.4	16.0	15.1	14.7	12.0		
13.0	16.3	16.0	15.7	15.5	15.1	14.8	14.7	14.5	13.8	13.3	13.0		
14.0	14.8	14.5	14.2	14	13.7	13.4	13.2	13.1	12.6	12.2	14.0		
15.0	-	13.2	13.0	12.8	12.5	12.2	12.0	11.9	11.5	11.2	15.0		
16.0	-	12.2	11.9	11.7	11.4	11.1	11.0	10.8	10.5	10.3	16.0		
18.0	-	10.4	10.2	9.9	9.7	9.4	9.2	9.1	8.8	8.7	18.0		
20.0	-	9.0	8.8	8.6	8.3	8.0	7.9	7.8	7.5	7.3	20.0		
22.0	-	-	7.7	7.5	7.2	6.9	6.8	6.7	6.4	6.3	22.0		
24.0	-	-	6.8	6.6	6.3	6.1	5.9	5.8	5.5	5.4	24.0		
26.0	-	-	6.0	5.9	5.6	5.3	5.2	5.1	4.8	4.6	26.0		
28.0	-	-	-	5.2	5.0	4.7	4.6	4.5	4.2	4.0	28.0		
30.0	-	-	-	4.7	4.4	4.1	4.0	3.9	3.6	3.5	30.0		
32.0	-	-	-	4.2	3.9	3.7	3.6	3.4	3.2	3.0	32.0		
34.0	-	-	-	-	3.5	3.3	3.1	3.0	2.8	2.6	34.0		
36.0	-	-	-	-	3.2	2.9	2.8	2.7	2.4	2.2	36.0		
38.0	-	-	-	-	2.8	2.6	2.5	2.3	2.1	1.9	38.0		
40.0	-	-	-	-	-	2.3	2.2	2.1	1.8	1.6	40.0		
42.0	-	-	-	-	-	-	1.9	1.8	1.5	1.3	42.0		
44.0	-	-	-	-	-	-	1.7	1.6	1.3	1.0	44.0		
46.0	-	-	-	-	-	-	1.4	1.3	1.0	-	46.0		
48.0	-	-	-	-	-	-	-	1.1	-	-	48.0		

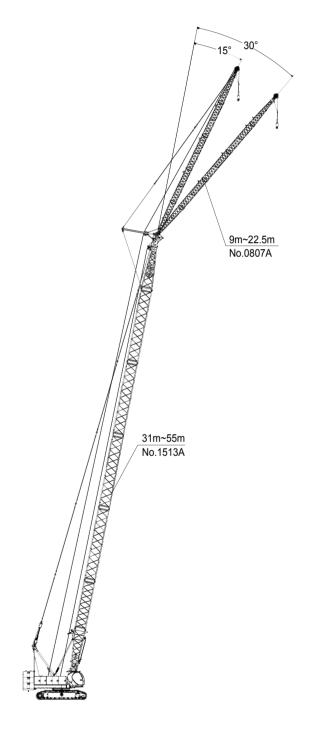
Notes

- 1. The actual hoisting capacity of the crane is a value that the rated value in the table minus the total weights of hooks, slings, and wire ropes winding on the hook and boom tip.
- 2. The rated load in the table is the value under the condition that the non-traveling heavy load is lifted slowly and steadily from the solid and flat ground.

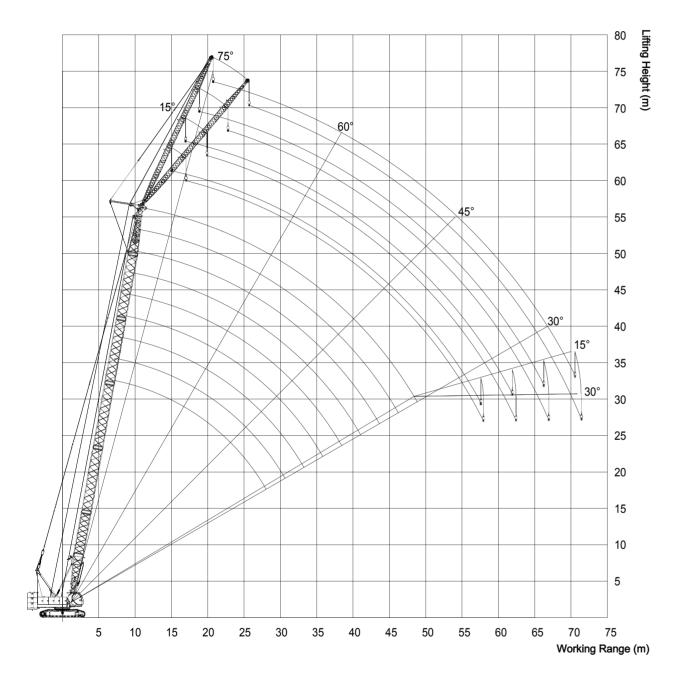
FIXED JIB FJ OPERATING CONDITION

Boom Combination under FJ Operating Condition

Jib Length	InsertInsert	Angle between
m	4.5m	boom and jib
9.0	-	
13.5	1	15° 30°
18.0	2	30
22.5	3	



OPERATING RANGE OF FIXED JIB OPERATING CONDITION



Lifting Height – Working Range Curve

LOAD CHART (FJ OPERATING CONDITION)

SCC8100-2 FJ Operating Condition – Jib 13.5 Load Chart

Boom No.1513A 27.4t+10.0t 360°

BOOM No.1513A + JIB No.0807A Angle between boom and jib is 15° Unit: t

Angle between boom and jib is 15°													
Radius m	31	34	37	40	43	46	49	52	Radius m				
12	7.0	-	-	-	-	-	-	-	12				
14	7.0	7.0	7.0	7.0	7.0	7.0	-	-	14				
16	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	16				
18	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	18				
20	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	20				
22	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	22				
24	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	24				
26	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	0 26				
28	7.0	7.0	7.0	7.0	7.0	6.8	6.7	6.6	28				
30	6.8	6.7	6.5	6.4	6.2	6.1	6.0	5.8	30				
32	6.2	6.1	5.9	5.8	5.6	5.5	5.4	5.2	32				
34	5.7	5.5	5.4	5.2	5.1	4.9	4.8	4.6	34				
36	5.2	5.0	4.9	4.7	4.6	4.4	4.3	4.2	36				
38	4.7	4.6	4.4	4.3	4.1	4.0	3.9	3.7	38				
40	4.3	4.2	4.0	3.9	3.7	3.6	3.5	3.3	40				
42	-	3.8	3.7	3.6	3.4	3.3	3.1	3.0	42				
44	-	-	3.4	3.2	3.1	2.9	2.8	2.6	44				
46	-	-	3.1	2.9	2.8	2.6	2.5	2.4	46				
48	-	-	-	2.7	2.5	2.4	2.2	2.1	48				
50	-	-	-	-	2.3	2.1	2.0	1.8	50				
52	-	-	-	-	-	1.9	1.8	1.6	52				
54	-	-	-	-	-	1.7	1.6	1.4	54				
56	-	-	-	-	-	-	1.4	1.2	56				
58	-	-	-	-	-	-	-	1.0	58				

Notes

- 1. The actual hoisting capacity of the crane is a value that the rated value in the table minus the total weights of hooks, slings, and wire ropes winding on the hook and boom tip.
- 2. The rated load in the table is the value under the condition that the non-traveling heavy load is lifted slowly and steadily from the solid and flat ground.

Ν	lote	S																																							
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
																																						_			
_	_	_																																					_		
_	_																																_						_	_	
_																																						-			
_	-	_	_	_	-	_	_	-	-	-	_	-	-	-	_	-	-	-	-	_	-	-	-	-	-	-	-	-	_	-	_	_	_	_	-	-	_	_	-	_	
_	-	_	_	_	_	_	-	-	_	_	_	-	-	-	_	-	_	_	_	_	-	-	-	-	_	-	-	_	_	_	_	_	-	_	-	-	-	-	-	_	
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
																																						_		_	
_																																									
_	_																																							_	
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
_	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	_	_	-	-	-	_	-	-	_	
_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	_	_	_	-	-	-	_	_	-	-	
_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	_	_	-	-	-	_	_	-	-	
_	_	_	_	_	_	_	_	_	_	_	_	_	-	-	_	-	_	_	_	_	_	-	_	_	_	-	_	_	_	_	_	_	_	_	-	-	_	_	-	_	
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
_	_																																					_		_	
																																	_								
_	_	_																																				_	_		
_																																								_	
-	-	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_	-	_	_	-	-	-	-	_	
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	



Quality Changes the World

SANY HEAVY INDUSTRY CO., LTD.

Address: SANY Industrial Park, Economic and Technological

Development Zone, Changsha, Hunan, China

Service Hotline: +0086-4006-098-318

E-mail: crd@sany.com.cn

For more information, please visit: www.sanygroup.com