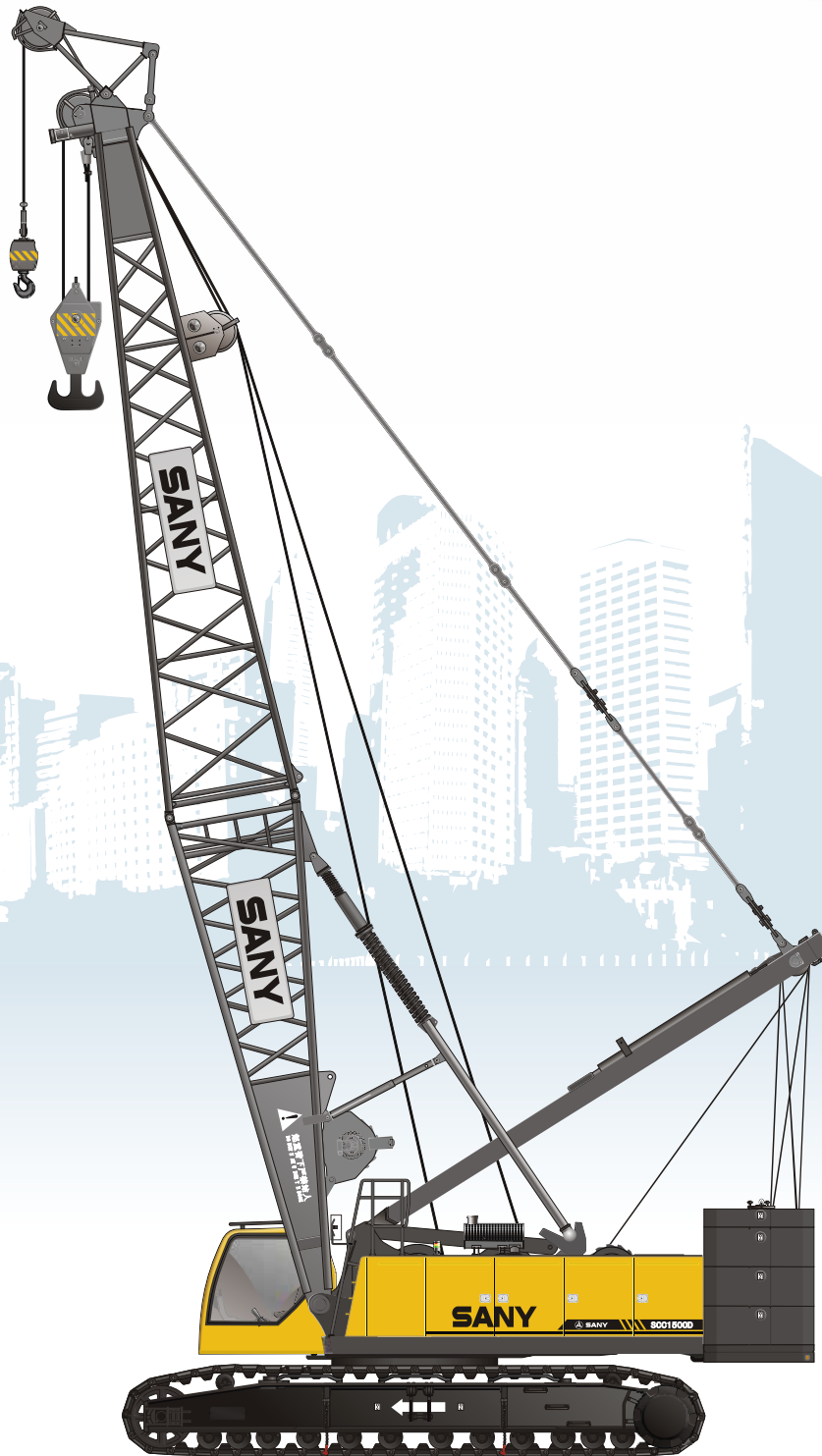




# SANY

Quality Changes the World



## SANY CRAWLER CRANE SCC 1500D

# CRAWLER CRANE

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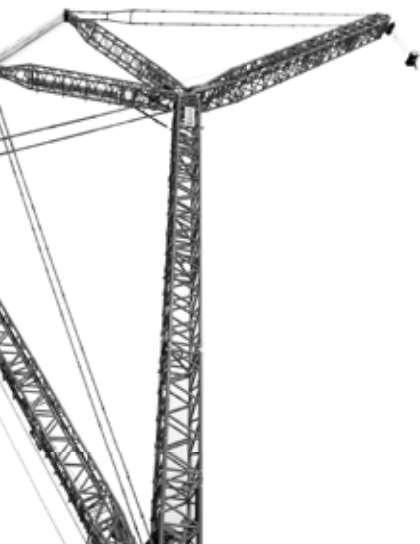
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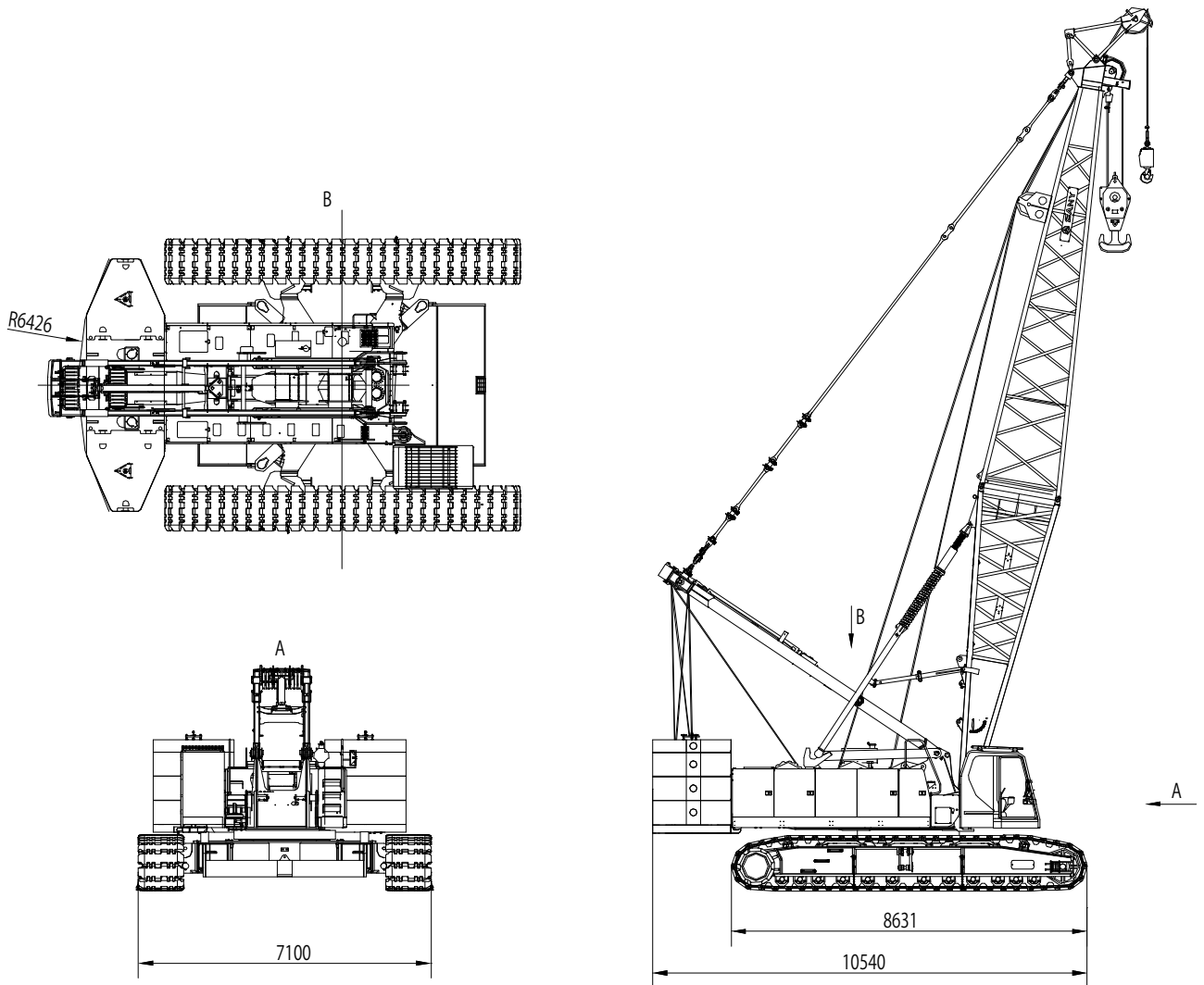




# SCC1500D

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# OUTLINE DIMENSIONS



# 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 inching performance extremely good and operation more stable;

## 3. Reliable functions assurance:

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 112.5t\*8m=900tm, the longest main boom 81m;

## 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 transportation program:

The transportation width of basic machine is only 3m, with a transportation weight of 43.5t, so it can be transported around the world without limitation;

## 8. Large-Chassis design:

Track frame which can be broadened, ensuring excellent machine and job stability within the range of 360 degree rotation with a gauge of 6m;

## 9. Automatic traveling direction:

The crane may travel forward through automatic adjustment after slewing 180o;

## 10. Fuel heater (optional):

Able to satisfy low temperature ignition in extremely cold areas;

## 11. Two-stage filter of engine:

Enable the use of domestic diesel engine;

## 12. 100% load travel:

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

## 13. Broad adaptability:

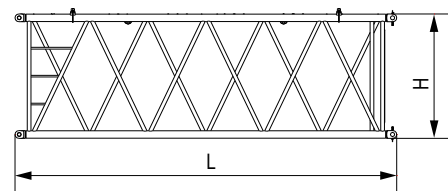
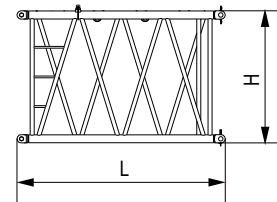
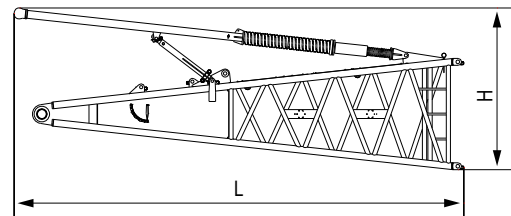
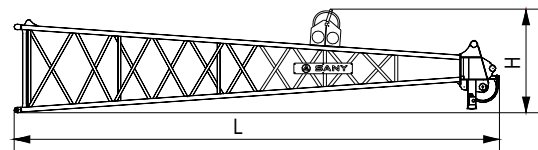
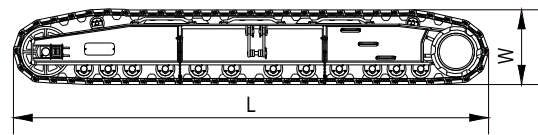
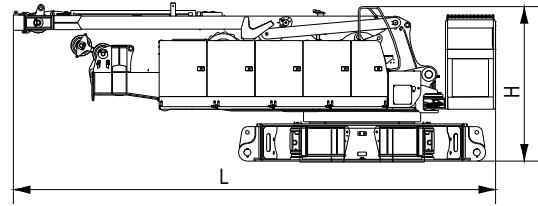
Meet certification requirements of CE, North America, Australia, Russia and Taiwan; the engine emission complies with the European and U.S. Non-highway Stage 3 Standards.

## MAIN PERFORMANCE DATA

Main Performance Data Of Scc1500d Crawler Crane			
Performance index		Unit	Data
Boom Operating Condition	Max. rated lifting capacity	t	150
	Max. rated lifting moment	t·m	112.5t×8
	Boom Length	m	18~81
	Boom Luffing Angle	°	30~80
Fixed jib Operating Condition	Fully extended boom+fully extended fixed jib	m	(69+31) / (75+13)
	Angle between boom and jib	°	15, 30
Speed parameter	Rope speed of main (auxiliary) winch (at outermost working layer)	m/min	0~125
	Rope speed of main luffing winch (at outermost working layer)	m/min	(0~24) ×2
	Swing speed	rpm	0~2
	Traveling Speed	km/h	0~1.2/0~0.6 (two options )
	Gradeability	%	30
Engine	Output power/rated engine speed	kW/ rpm	242 /2100
Transportation parameter	Maximum transport weight of single part piece	t	43.5
	Transportation dimension (length x width x height)	mm	10130×3000×3200
Other	Average ground bearing pressure	MPa	0.09
	Max gradeability	%	30

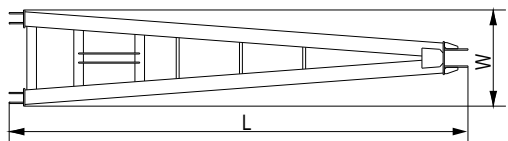
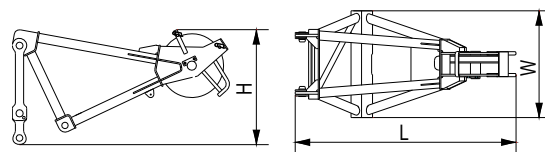
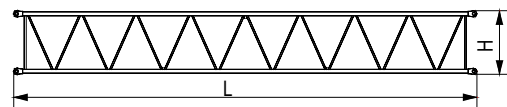
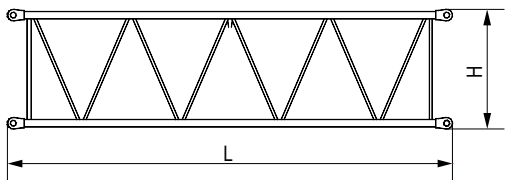
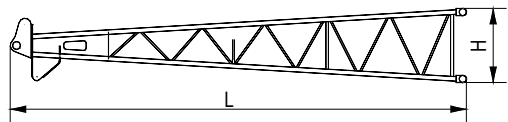
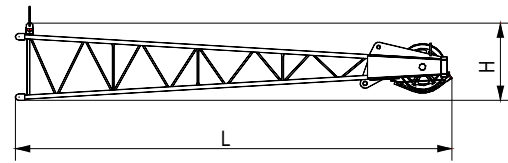
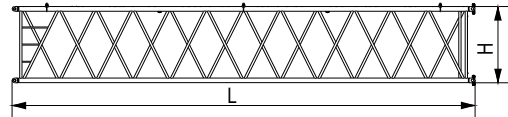
# TRANSPORT DIMENSIONS

<b>Basic Machine</b>	×1
Length	10.13m
Width	3.00m
Height	3.20m
Weight	43.5t
<b>Track Frame</b>	×2
Length	8.63m
Width	1.34m
Height	1.29m
Weight	20t
<b>Boom Tip</b>	×1
Length	10.91m
Width	2.21m
Height	2.31m
Weight	2.8t
<b>Boom Base</b>	×1
Length	8.07m
Width	2.23m
Height	2.91m
Weight	4.4t
<b>3m Boom Insert</b>	×1
Length	3.13m
Width	2.23m
Height	2.01m
Weight	0.81t
<b>6m Boom Insert</b>	×2
Length	6.14m
Width	2.30m
Height	2.01m
Weight	1.3t



# TRANSPORT DIMENSIONS

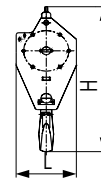
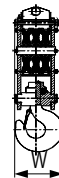
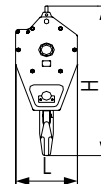
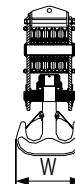
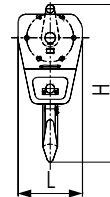
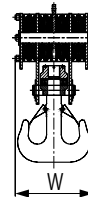
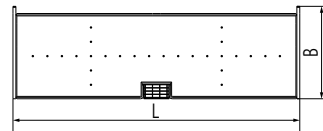
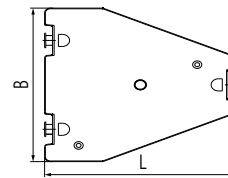
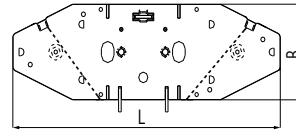
<b>12m Boom Insert</b>	<b>×4</b>
Length	12.14m
Width	2.30m
Height	2.01m
Weight	2.2t
<b>Fixed Jib Tip</b>	<b>×1</b>
Length	5.41m
Width	1.01m
Height	1.17m
Weight	0.32t
<b>Fixed jib Base</b>	<b>×1</b>
Length	5.11m
Width	1.03m
Height	0.83m
Weight	0.28t
<b>3m Fixed Jib</b>	<b>×1</b>
Length	3.08m
Width	1.01m
Height	0.83m
Weight	0.13t
<b>6m Fixed Jib</b>	<b>×3</b>
Length	6.08m
Width	1.01m
Height	0.83m
Weight	0.30t
<b>Boom Extension</b>	<b>×1</b>
Length	2.15m
Width	1.04m
Height	1.39m
Weight	0.32t
<b>Fixed Jib Strut</b>	<b>×1</b>
Length	5.44m
Width	1.14m
Height	0.21m
Weight	0.58t





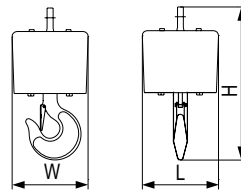
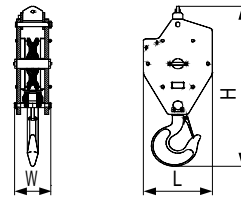
# TRANSPORT DIMENSIONS

<b>Counterweight Tray</b>	×1
Length	6.14m
Width	1.90m
Height	0.62m
Weight	9t
<b>5.5t Counterweight Block</b>	×8
Length	1.97m
Width	1.90m
Height	0.69m
Weight	5.5t
<b>Central Counterweight</b>	×2
Length	3.95m
Width	1.44m
Height	0.73m
Weight	8.0t
<b>150t Hook block</b>	×1
Length	0.89m
Width	1.03m
Height	2.44m
Weight	2.80t
<b>100t Hook block</b>	×1
Length	0.89m
Width	0.84m
Height	2.36m
Weight	1.99t
<b>50t Hook block</b>	×1
Length	0.89m
Width	0.47m
Height	1.95m
Weight	1.06t



# TRANSPORT DIMENSIONS

<b>25t Hook block</b>	<b>×1</b>
Length	0.90m
Width	0.37m
Height	1.87m
Weight	0.79t
<b>13.5t Hook block</b>	<b>×1</b>
Length	0.50m
Width	0.50m
Height	0.95m
Weight	0.53t



## Notes:

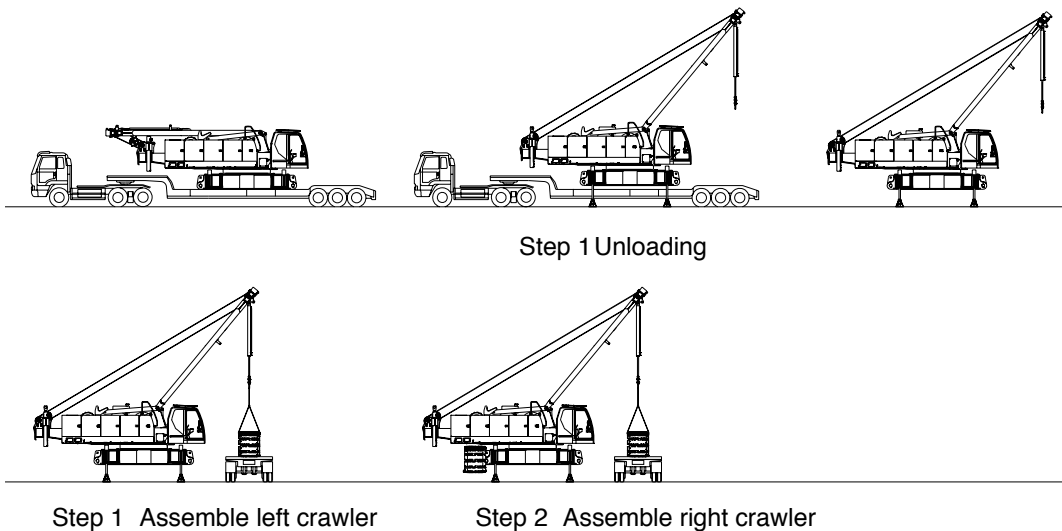
- (1) The transport dimensions of the parts are marked on schematic diagrams, but not drawn by scale; the dimensions indicated are the design values excluding package.
- (2) The weight is the designed value and there may be a weight error of  $\pm 2\%$  due to the manufacturing error.

# ASSEMBLY DIAGRAM

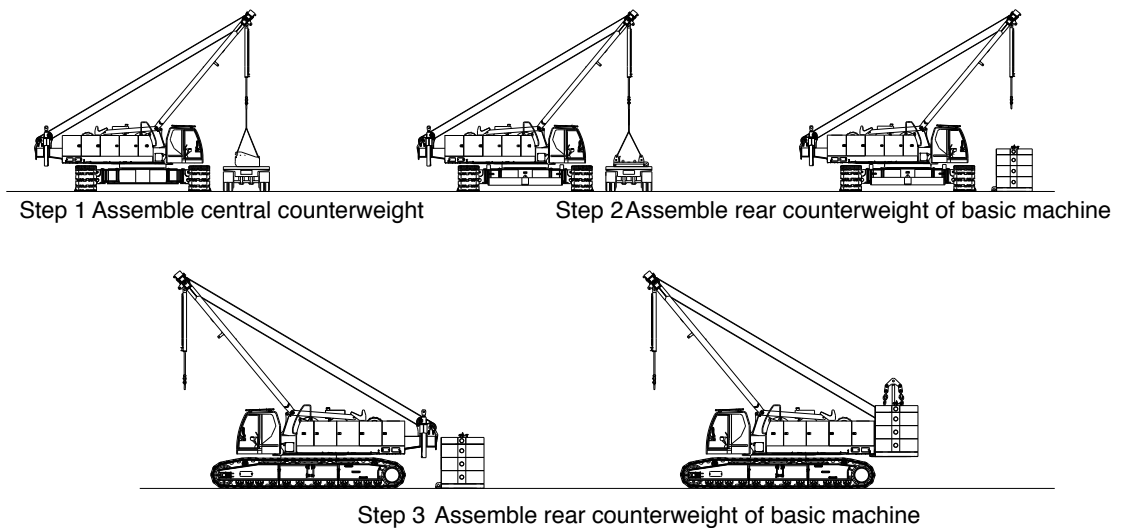
The crane is provided with functions of self-assembly/disassembly, e.g. crawler traveling tracks (optional), central counterweight (optional), rear counterweight of basic machine (optional) and boom base (optional) can all be self-assembled/disassembled. In the process of assembly, the crawler traveling

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) Assembly of crawler

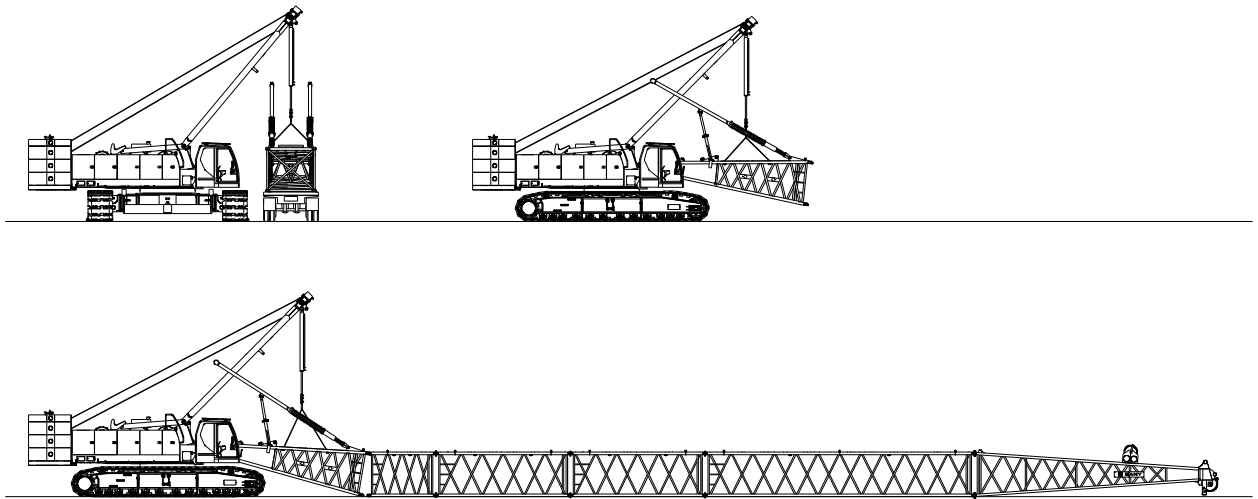


## 2) Assembly of counterweight



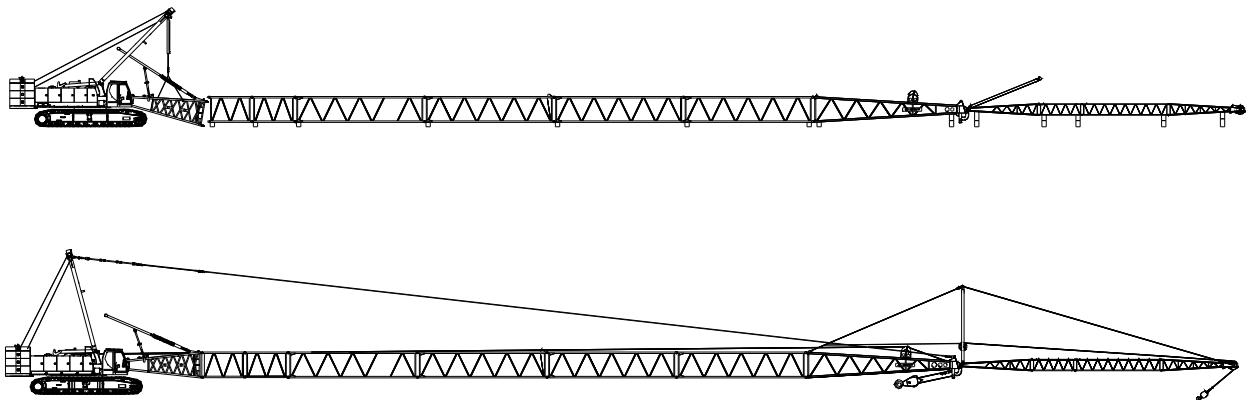
# ASSEMBLY DIAGRAM

## 3) Assembly of boom base



Assembly diagram of boom base

## 4) Assembly of fixed jib



Assembly diagram of fixed jib



# SCC1500D

12	Superstructure
14	Undercarriage
15	Operation Devices
16	Safety Devices
19	Table of Main Mechanism Data

# SUPERSTRUCTURE

## 1) Engine

- American Cummins:
  - Rated power/speed: 242kW/2100rpm.
  - Maximum torque: 1424N·m/1500rpm.
  - Emission standards: Tier 3.
- Dongfeng Cummins:
  - Rated power/speed: 242kW/2100rpm.
  - Maximum torque: 1385N·m/1500rpm.
  - Emission standards: Tier 3.
- Air filter: double filtration system compose of air pre-filter and air filter.
- Fuel tank: 400L with fuel indicator and digital display

## 2) 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; limit load regulation makes the operation more stable.
- Adopt controlled hydraulic oil cooling system independently.

## 3) Main and Auxiliary Hoisting Mechanisms

- The main and auxiliary winches are separately driven and are easy to assemble with their concise structure; the maintenance-free, built-in wet brake, boasting low abrasion, ensures the safety of winches.
- The variable hydraulic motor achieves max. winch speed by adjusting the displacement automatically according to load.
- High-quality non-rotating wire rope is selected to secure high hoisting safety and long service life.

### NO.1 Main hoisting winch

Drum diameter	596mm
Rope speed of the outermost working layer	0~125m/min
Wire rope diameter	26mm
Wire rope length of main winch	350m
Rated single rope pull force line pull	13.4t
Specification	Right-rotary concurrent twist

### NO.2 Auxiliary hoisting

Drum diameter	596mm
Rope speed of the outermost working layer	0~125m/min
Wire rope diameter	26mm
Wire rope length of auxiliary winch	300m
Rated single rope pull force line pull	13.4t
Specification	Right-rotary concurrent twist

## 4) Swing Mechanism

- Driven by swing motor and hydraulically buffered it may provide 360°.
- Brake: Built-in, wet, spring-loaded normal-engaged disk brake applies braking through spring force and release braking through oil pressure.
- Lock: A locking device is provided to protect the upper slewing from impact during hoisting transportation.
- Swing ring: Triple-row roller slewing ring.
- Swing speed: 0~2.0r/min.

## 5) Main And Auxiliary Luffing Mechanisms

The main luffing mechanism adopts tandem Drum.

### NO.3 Main luffing winch

Drum diameter	460mm
Rope speed of the outermost working layer	(0~24)×2 m/min
Wire rope diameter	20mm
Wire rope length of main luffing winch	320m
Rated single rope pull force line pull	9.73t
Specification of wire rope	Right-rotary alternating twist

## 6) Counterweight

Name	Q' ty	Single piece weight(kg)	Weight (kg)
Counterweight block	8	5500	44000
Counterweigh tray	1	9000	9000
Central counterweight	2	8000	16000
Total weight of all counterweights (kg)			69000

## 6) Cab

- Unique SANY-style and all-closed driver's cab in the latest design, with wide vision, is equipped with adjustable seat, and heating and cooling air conditioner.
- Four head lights provide illumination for far and near distances.
- Large glass window with rearview mirror makes the field of vision broader .
- Armrest box may be adjusted forward and backward with the seat, comfortable to operate, and it complies with ergonomic principle in a more desirable way.
- 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.

## 7) 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/slewing 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.

# UNDERCARRIAGE

## 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) Travel Brake

The travel brake is a disk brake normally engaged in the reducer, that is, the brake is in the braking state when the operation pedal valve is not pushed down; and it is capable of automatic compensation, free of adjustment. When the operation pedal valve is pushed down, the brake will be released to realize traveling.

## 3) Crawler Shoes

The crawler units at the left and right have 112 crawler shoes totally, each 1,100mm wide. The tensity of crawler shoe can be adjusted via the hydraulic jack, and an ideal tensity 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.
- The large chassis design obviously improves the stability of the whole machine.
- Counterweights of undercarriage weigh 16t, 8t respectively at the front and back, and they can be self assembled/disassembled.

## 5) Travel Speed

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



# OPERATION DEVICES

## 1) Boom

- Lattice structures; the main chord adopts high strength structure steel; each section is connected with pins.
- Basic boom: 10.5m tip +7.5m base boom insert: 3m×1,6m× 2, 12m×4.
- Boom Length: 18m~ 81m.

## 2) Fix Jib

- Lattice structures; the main chord adopts high strength structure steel; each section is connected with pins: Basic boom 5m tip +5m base boom insert: 3m× 1, 6m×3.
- Jib Length: 13m~ 31m.
- The longest Boom + Jib = 69m + 31m/ 75m + 13m.

## 3) Boom extension

All in welded structure, the arm has one pulley on head and is connected to the upper part of the boom with a pin roll.

## 4) Lifting Hook

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

Note: The operation devices are safe configuration ; order contract shall prevail for specific configuration.

# SAFETY DEVICES

## 1) Load Moment Indicator

- A completely separate and secure computer-controlled operating system; LMI can automatically detect the load of the cranes and the angle of the 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 the 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.
- Components: display, machine, monitor, angle sensors, force sensors etc.

## 2) Main and Auxiliary Hoisting Limiter

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.

## 3) Lowering Limiter of Main and Auxiliary 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) Installation/Operation Mode Change-Over Switch

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

## 5) 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.

## 6) Boom Angle Limiter

When the elevation angle of lifting arm is greater than the buzzer will alarm, and boom elevation control will be closed. This protection is controlled by load moment limiter and position switch.

## 7) Boom Back-stop Device

Composed of nesting tube and spring etc. Buffer the energy of boom backwards tilting by spring force to prevent boom backwards tilting.

## 8) Winch Locking Device

Main reel, auxiliary reel and luffing winch are equipped with electric locking device. Before winch operation, users need to switch towards dissolution for operation consciously, avoid handle mis-operation; ensure the security of winch under non-working states.

## 9) 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.

## 10) 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.

## 11) Navigation Light

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

## 12) 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.

### **13) Level Gauge**

Electronic leveling gauge can display tilt angle of upper works on monitor.

### **14) Boom Angle Indicator**

Pendulum angle indicating device is fixed in base next to the cab for the convenience of operator.

### **15) Hook Clamp**

Lifting hooks are provided with baffle to prevent the rope from dropping.

### **16) 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.

### **17) 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.

### **18) Traveling or Slewing Hoist**

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

### **19) 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 collisions in upper and lower works.
- When operator is not seated, all the manipulation will

not work; some mis-operations can effectively be avoided.

### **20) Automatic Reversing Travel**

Whatever relative positions superworks and undercarriage 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.

### **21) 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.

### **22) 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.

### **23) Monitoring System**

- Cameras: 2 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 and GPRS data transfer, device status information, statistics, monitoring and analysis of operational data and remote fault diagnosis can be realized.

#### **24) Emergency Stop Function**

In emergency, press the emergency stop button fixed inside the driver's cab to cut off power supply of the machine and stop all the operations.

#### **25) Lightning Protection Device**

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

#### **26) 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.

#### **27) 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.

#### **28) 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 OF MAIN MECHANISM DATA

Counterweight Parameters					
Name	Q' ty	Length(m)	Width (m)	Height (m)	Single piece weight (t)
Counterweight block	6	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	8

Hook Parameters					
Hook name	Max. hoisting capacity	Q' ty	Number of pulleys	Multipling factor	Single piece weight (t)
150t hook block	150t	1	7	13	2.80
100t hook block	100t	1	5	9	1.99
50t hook block	50t	1	3	4	1.06
25t hook block	25t	1	1	2	0.79
13.5t hook block	13.5t	1	0	1	0.53

# SCC1500D

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Operating Condition Combination 21

H Operating Condition 22

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Fixed Jib Operation Condition 27



# OPERATING CONDITION COMBINATION



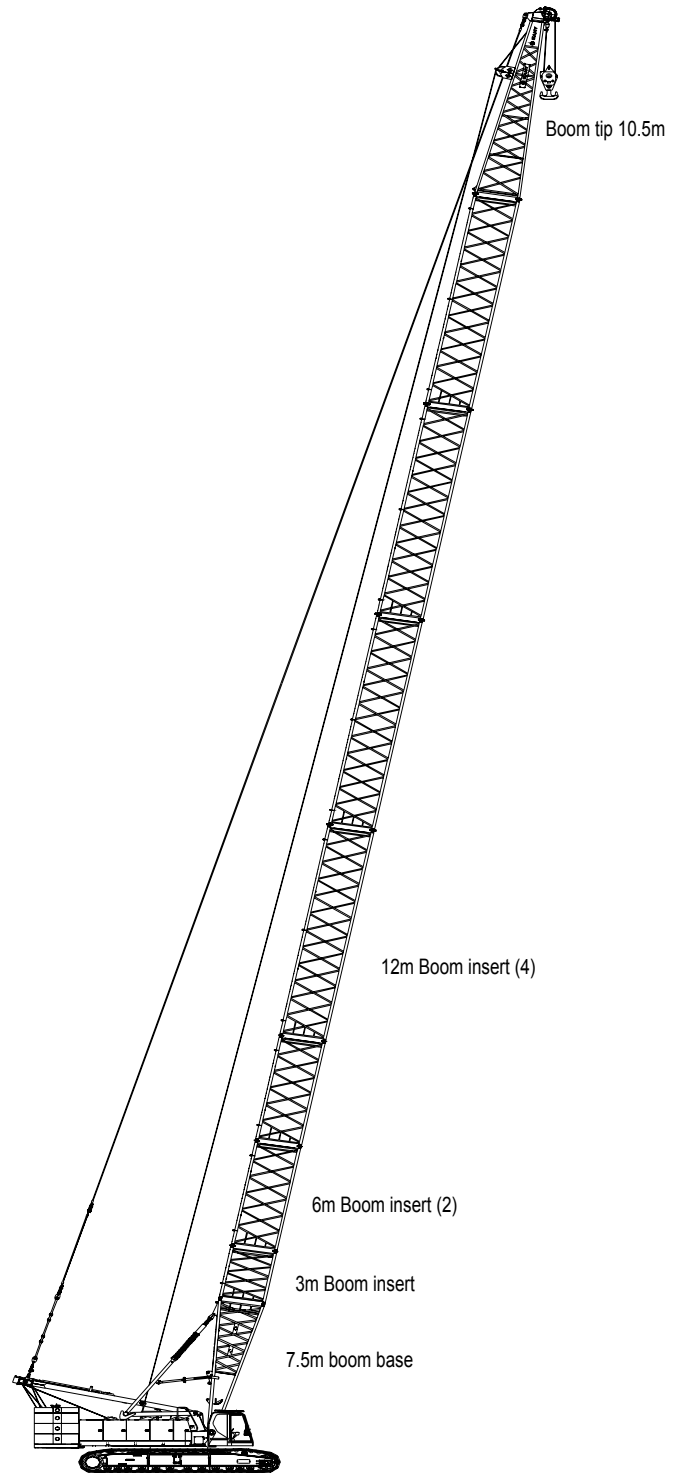
Operating condition of  
Main boom H  
(18~81)m  
(53+16)t

Operating condition of boom  
extension HC  
(18~81)m  
(53+16)t

Operating condition of  
fixed jib FJ  
(69+31)/(75+13)m  
(53+16)t

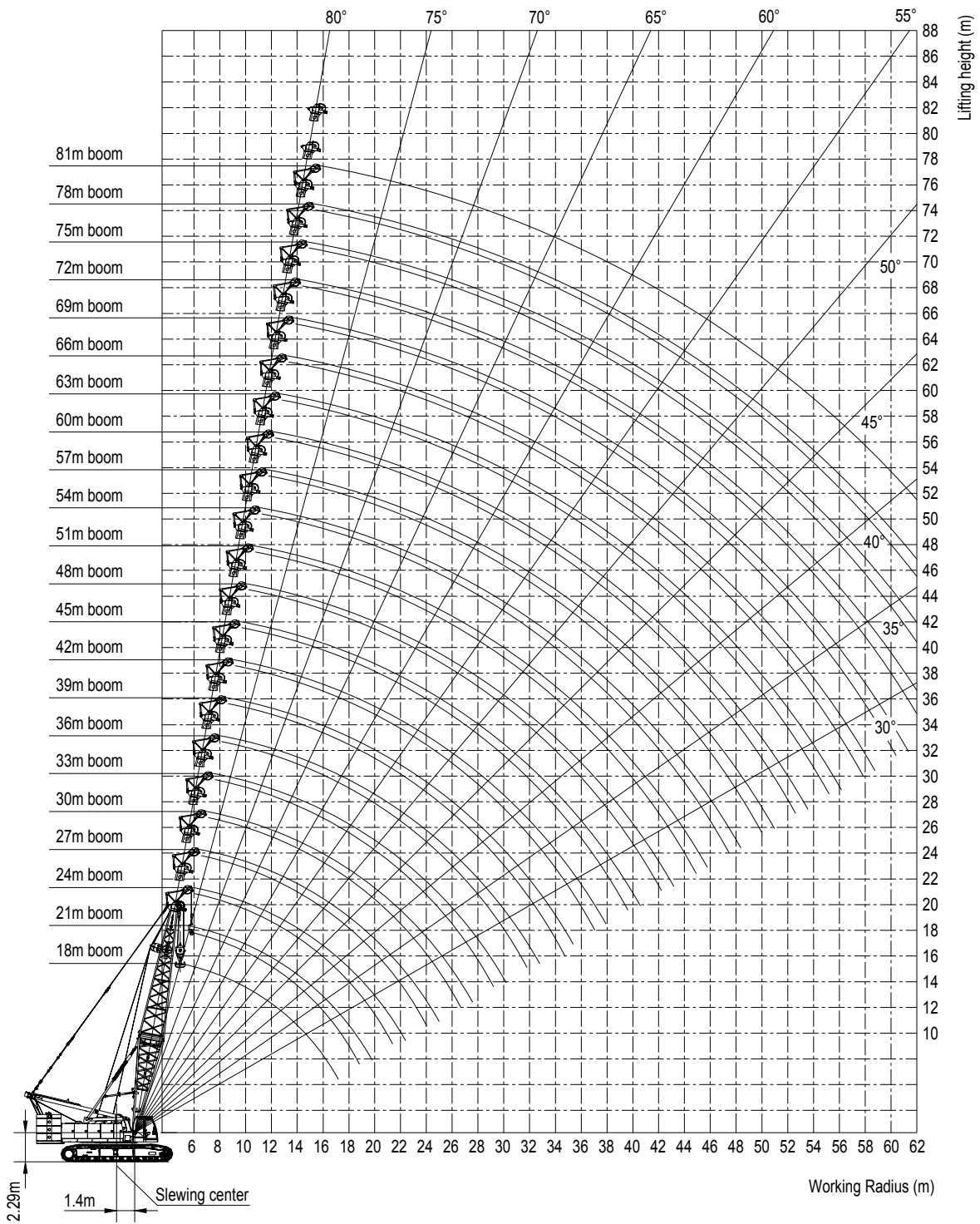
# H OPERATING CONDITION

Boom length	Insert		
	3 m	6 m	12 m
18	–	–	–
21	1	–	–
24	–	1	–
27	1	1	–
30	–	2	–
33	1	2	–
36	–	1	1
39	1	1	1
42	–	2	1
45	1	2	1
48	–	1	2
51	1	1	2
54	–	2	2
57	1	2	2
60	–	1	3
63	1	1	3
66	–	2	3
69	1	2	3
72	–	1	4
75	1	1	4
78	–	2	4
81	1	2	4





# H AND HC OPERATING CONDITION RANGE DIAGRAM



# H OPERATING CONDITION LOAD CHARTS

## Notes:

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 ton. The actual lifting capacity is the value obtained by deducting the weight of hoisting tools (e.g. main and auxiliary lifting hooks) from the rated lifting capacity indicated in the table.

The weight of lifting hook is shown as below:

- 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

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

# H OPERATING CONDITION LOAD CHARTS

## SCC 1500D Crawler Crane

### H Operating Condition Load Charts 1/2

Unit: (t)

Radius(m)	Boom length(m)										
	18	21	24	27	30	33	36	39	42	45	48
4	—	—	—	—	—	—	—	—	—	—	—
5	150/4.94	147.5/5.46	—	—	—	—	—	—	—	—	—
6	147.0	142.1	134.3/5.95	124.6/6.5	—	—	—	—	—	—	—
7	128.5	126.0	123.5	119.7	115.8	112/7.54	—	—	—	—	—
8	112.5	111.4	110.3	109.2	107.0	104.0	100/8.07	88/8.58	—	—	—
9	98.0	98.0	98.0	96.4	93.5	90.8	88.4	85.8	82.6/9.1	75.7/9.63	—
10	85.7	85.7	85.7	84.7	82.4	80.2	78.3	76.2	74.3	72.4	70.7/10.1
12	65.6	65.6	65.6	65.6	65.6	64.8	63.5	62.0	60.6	59.2	58.0
14	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.0	50.9	49.8	48.9
16	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.9	43.7	42.8	42.1
18	39.7/17.19	37.5	37.5	37.5	37.5	37.4	37.4	37.4	37.2	37.1	36.8
20	—	32.9/19.8	32.6	32.6	32.6	32.4	32.4	32.4	32.2	32.0	32.0
22	—	—	27.9/22.4	28.6	28.6	28.5	28.5	28.4	28.3	28.1	28.1
24	—	—	—	25.4	25.4	25.3	25.3	25.2	25.1	24.9	24.8
26	—	—	—	24.2/25	22.7	22.6	22.6	22.5	22.4	22.2	22.2
28	—	—	—	—	20.9/27.6	20.4	20.4	20.3	20.2	20.0	20.0
30	—	—	—	—	—	18.2/30.2	18.5	18.4	18.3	18.1	18.1
32	—	—	—	—	—	—	16.3/32.8	16.7	16.6	16.4	16.4
34	—	—	—	—	—	—	—	15.3	15.2	15.0	15.0
36	—	—	—	—	—	—	—	14.4/35.38	13.9	13.7	13.7
38	—	—	—	—	—	—	—	—	12.8/37.95	12.6	12.6
40	—	—	—	—	—	—	—	—	—	11.3/40.58	11.6
42	—	—	—	—	—	—	—	—	—	—	10.7
44	—	—	—	—	—	—	—	—	—	—	10.1/43.2
46	—	—	—	—	—	—	—	—	—	—	—
48	—	—	—	—	—	—	—	—	—	—	—
50	—	—	—	—	—	—	—	—	—	—	—
Counterweight (t)	53+16	53+16	53+16	53+16	53+16	53+16	53+16	53+16	53+16	53+16	53+16
Lines	13	12	11	10	10	9	8	7	7	6	6

# H OPERATING CONDITION LOAD CHARTS

## SCC 1500D Crawler Crane

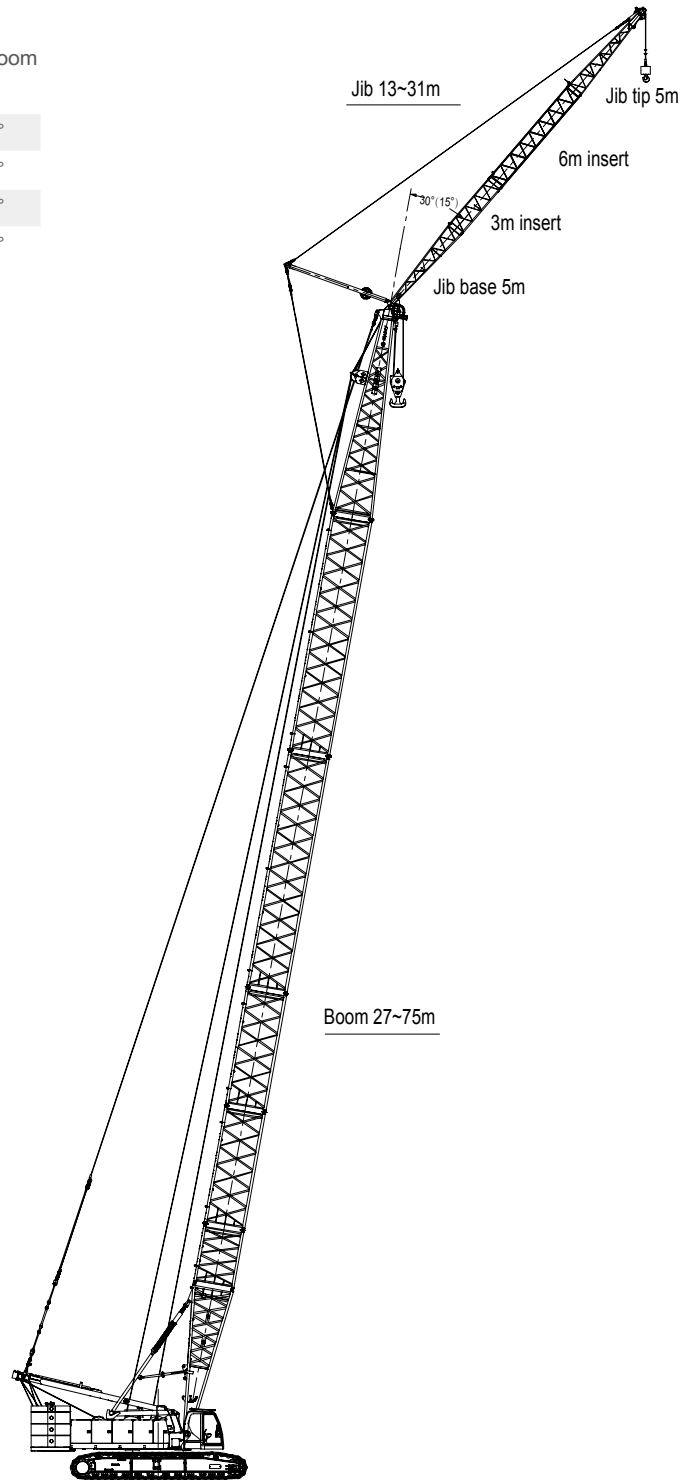
### H Operating Condition Load Charts 2/2

Unit: (t)

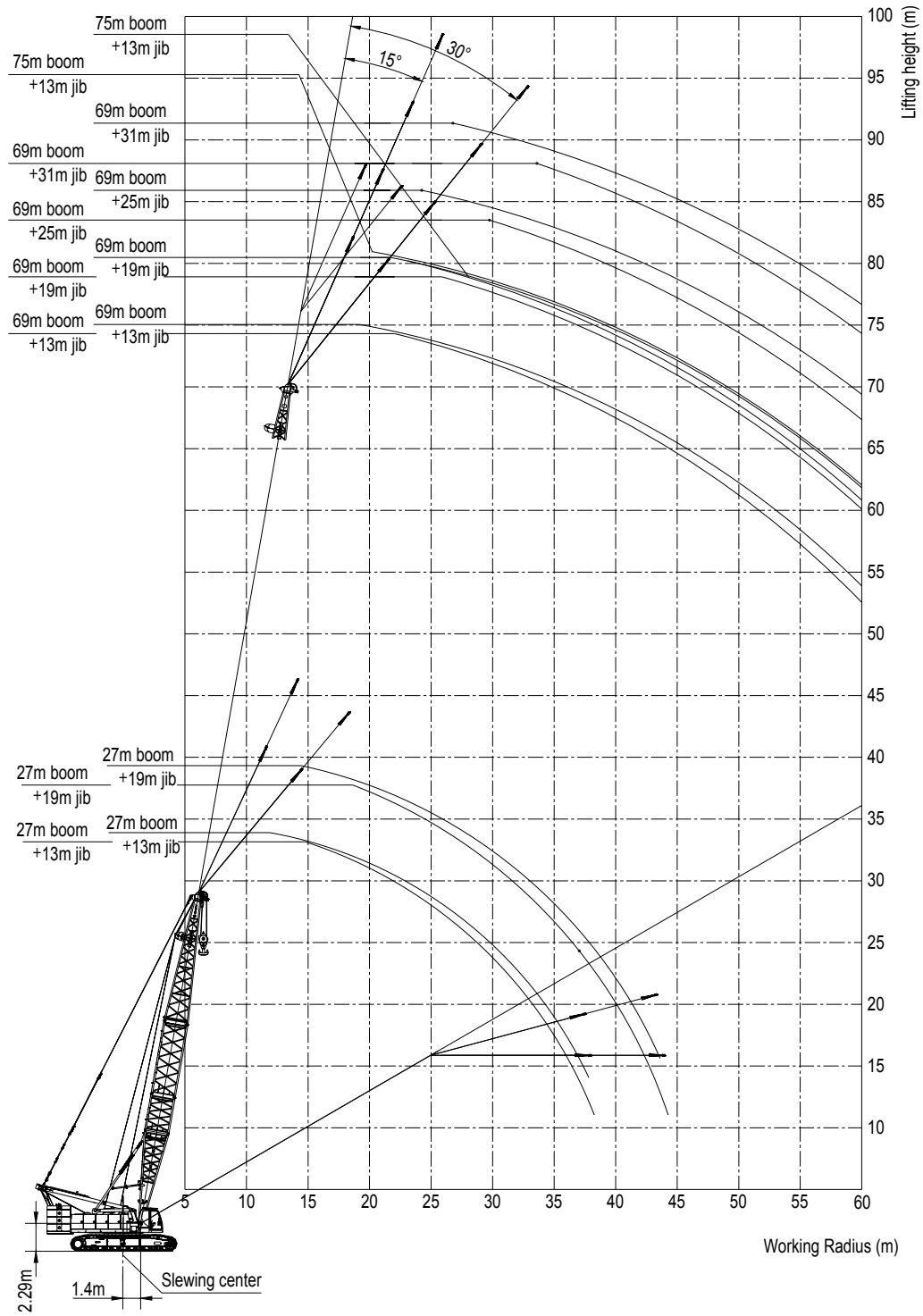
Radius(m)	Boom length(m)										
	51	54	57	60	63	66	69	72	75	78	81
10	63.6/10.6	—	—	—	—	—	—	—	—	—	—
12	56.7	62.5/11.2	50.0/11.7	50.0/12.2	48.8/12.75	47.5/13.2	—	—	—	—	—
14	47.9	46.9	45.9	45.0	44.1	43.1	42.9/13.8	38.5/14.3	38.2/14.8	36.1/15.3	—
16	41.2	40.4	39.6	38.9	38.1	37.3	36.5	35.8	35.1	34.3	33.6
18	36.1	35.3	34.6	34.0	33.3	32.7	32.0	31.4	30.7	30.1	29.4
20	31.8	31.3	30.6	30.1	29.5	28.9	28.3	27.8	27.2	26.6	26.0
22	27.9	27.7	27.3	26.9	26.3	25.8	25.2	24.8	24.2	23.7	23.1
24	24.7	24.5	24.3	24.2	23.6	23.1	22.6	22.2	21.7	21.2	20.7
26	22.0	21.8	21.6	21.5	21.3	20.9	20.4	20.0	19.5	19.1	18.6
28	19.8	19.6	19.4	19.3	19.1	18.9	18.5	18.1	17.7	17.2	16.8
30	17.9	17.7	17.5	17.4	17.2	17.0	16.8	16.5	16.0	15.6	15.2
32	16.2	16.0	15.8	15.7	15.5	15.3	15.1	15.0	14.6	14.2	13.8
34	14.8	14.6	14.4	14.3	14.1	13.9	13.7	13.6	13.3	12.9	12.5
36	13.5	13.3	13.1	13.0	12.8	12.6	12.4	12.3	12.1	11.8	11.4
38	12.4	12.2	12.0	11.9	11.7	11.5	11.3	11.2	10.9	10.7	10.4
40	11.4	11.2	11.0	10.9	10.7	10.5	10.3	10.2	9.9	9.7	9.5
42	10.5	10.3	10.1	10.0	9.8	9.6	9.4	9.3	9.0	8.8	8.6
44	9.6	9.5	9.3	9.2	9.0	8.8	8.5	8.4	8.2	8.0	7.8
46	9/45.75	8.7	8.5	8.4	8.2	8.0	7.8	7.7	7.5	7.3	7.0
48	—	7.9/48.38	7.8	7.8	7.6	7.4	7.1	7.0	6.8	6.6	6.3
50	—	—	7.2	7.1	6.9	6.7	6.5	6.4	6.2	6.0	5.7
52	—	—	6.9/50.97	6.6	6.4	6.2	5.9	5.8	5.6	5.4	5.2
54	—	—	—	6.1/53.57	5.8	5.6	5.4	5.3	5.1	4.9	4.6
56	—	—	—	—	5.3/56.16	5.1	4.9	4.8	4.6	4.4	4.1
58	—	—	—	—	—	4.5/58.8	4.5	4.4	4.1	3.9	3.7
60	—	—	—	—	—	—	4.0	3.9	3.7	3.5	3.3
62	—	—	—	—	—	—	3.7/61.4	3.5	3.3	3.1	2.9
64	—	—	—	—	—	—	—	3.1	2.9	2.7	2.5
66	—	—	—	—	—	—	—	—	2.6	2.4	2.1
68	—	—	—	—	—	—	—	—	2.4/66.5	2.0	1.8
70	—	—	—	—	—	—	—	—	—	1.9/69.2	1.5
Counterweight (t)	53+16	53+16	53+16	53+16	53+16	53+16	53+16	53+16	53+16	53+16	53+16
Lines	5	5	4	4	4	4	4	3	3	3	3

# FIXED JIB OPERATION CONDITION

Jib length (m)	Insert		Boom length (m)	Angle between boom and jib
	3 m	6 m		
13	1	—	27~75	15°, 30°
19	1	1	27~69	15°, 30°
25	1	2	33~69	15°, 30°
31	1	3	39~69	15°, 30°



# FIXED JIB WORKING RANGE DIAGRAM



# FIXED JIB LOAD CHARTS

## Notes:

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 lifting hooks) from the rated lifting capacity indicated in the table.

The weight of lifting hook is shown as below:

- 13.5t hook block——0.53t ;

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

# FIXED JIB LOAD CHARTS

## SCC 1500D Crawler Crane Fixed Jib Load Charts 1/5

Unit: (t)

Boom length (m)		27				30				33			
Jib length (m)		13		19		13		19		13		19	
Jib angle		15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°
Radius (m)													
12		13.0/12.3				13.0/12.9				13.0/13.4			
14		13.0	9.0/15.1	8.0/14.9		13.0	9.0/15.7	8.0/15.5		13.0			
16		13.0	9.0	8.0		13.0	9.0	8.0		13.0	9.0/16.3	8.0/16.1	
18		13.0	9.0	8.0	6.0/19.1	13.0	9.0	8.0	6.0/19.6	13.0	9.0	8.0	
20		13.0	9.0	8.0	6.0	13.0	9.0	8.0	6.0	13.0	9.0	8.0	6.0/20.2
22		13.0/23.2	9.0	8.0	6.0	13.0	9.0	8.0	6.0	13.0	9.0	8.0	6.0
24		12.7	9.0	8.0	6.0	13.0/24.8	9.0	8.0	6.0	13.0	9.0	8.0	6.0
26		12.3/24.9	9.0/24.9	8.0/24.9	6.0/24.9	12.5	9.0	8.0	6.0	13.0	9.0	8.0	6.0
28						11.9/27.5	9.0/27.5	8.0/27.5	6.0/27.5	12.3	9.0	8.0	6.0
30										11.6/30.1	9.0/30.1	8.0/30.1	6.0/30.1
32													
34													
Counterweight (t)		53+16											

Boom length (m)		33				36				39			
Jib length (m)		25		13		19		25		13		19	
Jib angle		15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°
Radius (m)													
14				13.0/14.1						13.0/14.6			
16				13.0	9.0/16.9	8.0/16.7				13.0	9.0/17.4	8.0/17.2	
18		5.0/18.7		13.0	9.0	8.0		5.0/19.3		13.0	9.0	8.0	
20		5.0		13.0	9.0	8.0	6.0/20.8	5.0		13.0	9.0	8.0	6.0/21.4
22		5.0		13.0	9.0	8.0	6.0	5.0		13.0	9.0	8.0	6.0
24		5.0	4.6/24.2	13.0	9.0	8.0	6.0	5.0	4.6/24.7	13.0	9.0	8.0	6.0
26		5.0	4.6	13.0/27.6	9.0	8.0	6.0	5.0	4.6	13.0	9.0	8.0	6.0
28		5.0	4.6	12.8	9.0	8.0	6.0	5.0	4.6	13.0/29.0	9.0	8.0	6.0
30		5.0/30.1	4.6/30.1	12.2	9.0	8.0	6.0	5.0	4.6	12.7	9.0	8.0	6.0
32				11.6	9.0	8.0	6.0	5.0	4.6	12.1	9.0	8.0	6.0
34				11.4/32.7	9.0/32.7	8.0/32.7	6.0/32.7	5.0/32.7	4.6/32.7	11.5	9.0	8.0	6.0
36										10.9/35.3	9.0/35.3	8.0/35.3	6.0/35.3
Counterweight (t)		53+16											



# FIXED JIB LOAD CHARTS

## SCC 1500D Crawler Crane Fixed Jib Load Charts 2/5

Unit: (t)

Boom length (m)		39											
Jib length (m)		25		31									
Radius (m)		Jib angle		15°		30°		15°		30°			
14													
16													
18		5.0/19.9											
20		5.0											
22		5.0			3.0/22.5								
24		5.0	4.6/25.3	3.0									
26		5.0	4.6	3.0									
28		5.0	4.6	3.0	2.6/29.2								
30		5.0	4.6	3.0	2.6								
32		5.0	4.6	3.0	2.6								
34		5.0	4.6	3.0	2.6								
36		5.0/35.3	4.6/35.3	3.0/35.3	2.6/35.3								
Counterweight (t)		53+16											

Boom length (m)		42								45					
Jib length (m)		13		19		25		31		13		19			
Radius (m)		Jib angle		15°		30°		15°		30°		15°		30°	
16		13.0/15.2		8.0/17.8						13.0/15.7					
18		13.0		8.0						13.0	9.0/18.6	8.0/18.4			
20		13.0	9.0	8.0	6.0/21.9	5.0/20.4				13.0	9.0	8.0			
22		13.0	9.0	8.0	6.0	5.0		3.0/23.1		13.0	9.0	8.0	6.0/22.5		
24		13.0	9.0	8.0	6.0	5.0	4.6/25.9	3.0		13.0	9.0	8.0	6.0		
26		13.0	9.0	8.0	6.0	5.0	4.6	3.0		13.0	9.0	8.0	6.0		
28		13.0	9.0	8.0	6.0	5.0	4.6	3.0	2.6/29.8	13.0	9.0	8.0	6.0		
30		13.0	9.0	8.0	6.0	5.0	4.6	3.0	2.6	13.0	9.0	8.0	6.0		
32		13.0	9.0	8.0	6.0	5.0	4.6	3.0	2.6	13.0	9.0	8.0	6.0		
34		13.0	9.0	8.0	6.0	5.0	4.6	3.0	2.6	12.0	9.0	8.0	6.0		
36		12.1	9.0	8.0	6.0	5.0	4.6	3.0	2.6	11.0	9.0	8.0	6.0		
38		11.1	9.0	8.0/37.9	6.0/37.9	5.0/37.9	4.6/37.9	3.0/37.9	2.5/37.9	10.2	9.0	8.0	6.0		
40		9.6/37.9	9.0/37.9							9.4	9.0	8.0	6.0		
42										9.2/40.5	9.0/40.5	8.0/40.5	6.0/40.5		
Counterweight (t)		53+16													

# FIXED JIB LOAD CHARTS

## SCC 1500D Crawler Crane Fixed Jib Load Charts 3/5

Unit: (t)

Boom length (m)		45						48					
Jib length (m)		25		31		13		19		25		31	
Jib angle		15°		30°		15°		30°		15°		30°	
Radius (m)													
16						13.0/16.3							
18						13.0	9.0/19.1	8.0/18.9					
20	5.0/21.0					13.0	9.0	8.0		5.0/21.6			
22	5.0		3.0/23.6			13.0	9.0	8.0	6.0/23.1	5.0			
24	5.0		3.0			13.0	9.0	8.0	6.0	5.0		3.0/24.2	
26	5.0	4.6/26.4	3.0			13.0	9.0	8.0	6.0	5.0	4.6/27.0	3.0	
28	5.0	4.6	3.0			13.0	9.0	8.0	6.0	5.0	4.6	3.0	
30	5.0	4.6	3.0	2.4/30.4		13.0/30.5	9.0	8.0	6.0	5.0	4.6	3.0	2.6/31.0
32	5.0	4.6	3.0	2.4		12.7	9.0	8.0	6.0	5.0	4.6	3.0	2.6
34	5.0	4.6	3.0	2.4		11.6	9.0	8.0	6.0	5.0	4.6	3.0	2.6
36	5.0	4.6	3.0	2.4		10.6	9.0	8.0	6.0	5.0	4.6	3.0	2.6
38	5.0	4.6	3.0	2.4		9.8	9.0	8.0	6.0	5.0	4.6	3.0	2.6
40	5.0	4.6	3.0	2.4		9.0	9.0	8.0	6.0	5.0	4.6	3.0	2.6
42	5.0/40.5	4.6/40.5	3.0/40.5	2.4/40.5		8.4	8.6	8.0	6.0	5.0	4.6	3.0	2.6
44						8.1/43.1	8.2/43.1	8.0/43.1	6.0/43.1	5.0/43.1	4.6/43.1	3.0/43.1	2.6/43.1
Counterweight (t)		53+16											
Boom length (m)		51						54					
Jib length (m)		13		19		25		31		13		19	
Jib angle		15°		30°		15°		30°		15°		30°	
Radius (m)													
16	13.0/16.9									13.0			
18	13.0	9.0/19.7	8.0/19.5							13.0			
20	13.0	9.0	8.0							13.0	9.0/20.3	8.0/20.1	
22	13.0	9.0	8.0	6.0/23.6	5.0/22.1					13.0	9.0	8.0	
24	13.0	9.0	8.0	6.0	5.0			3.0/24.8		13.0	9.0	8.0	6.0/24.2
26	13.0	9.0	8.0	6.0	5.0	4.6/27.6	3.0			13.0	9.0	8.0	6.0
28	13.0	9.0	8.0	6.0	5.0	4.6	3.0			13.0	9.0	8.0	6.0
30	13.0/30.1	9.0	8.0	6.0	5.0	4.6	3.0	2.6/31.5		13.0	9.0	8.0	6.0
32	12.7	9.0	8.0	6.0	5.0	4.6	3.0	2.6		12.6	9.0	8.0	6.0
34	11.7	9.0	8.0	6.0	5.0	4.6	3.0	2.6		11.4	9.0	8.0	6.0
36	10.7	9.0	8.0	6.0	5.0	4.6	3.0	2.6		10.5	9.0	8.0	6.0
38	9.8	9.0	8.0	6.0	5.0	4.6	3.0	2.6		9.6	9.0	8.0	6.0
40	9.1	9.0	8.0	6.0	5.0	4.6	3.0	2.5		8.9	8.9	8.0	6.0
42	8.3	8.3	8.0	6.0	5.0	4.6	2.9	2.5		8.1	8.1	8.0	6.0
44	7.8	7.8	7.8	6.0	5.0	4.6	2.9	2.4		7.6	7.6	7.6	6.0
46	7.3/45.7	7.3/45.7	7.3/45.7	6.0/45.7	5.0/45.7	4.6/45.7	2.8/45.7	2.35/45.7		7.0	7.0	7.0	6.0
48										6.5	6.5	6.5	6.0
50										6.4/48.3	6.4/48.3	6.4/48.3	6.0/48.3
Counterweight (t)		53+16											

# FIXED JIB LOAD CHARTS

## SCC 1500D Crawler Crane

### Fixed Jib Load Charts 4/5

Unit: (t)

Boom length (m)		54				57						
Jib length (m)	25	31	13	19	25	31						
Jib angle	15°		30°									
Radius (m)												
16					13.0							
18					13.0	9.0/20.9	8.0/20.7					
20					13.0	9.0	8.0			5.0/23.3		
22	5.0/22.7				13.0	9.0	8.0	6.0/24.8	5.0			3.0/25.5
24	5.0		3.0/25.3		13.0	9.0	8.0	6.0	5.0			3.0
26	5.0		3.0		13.0	9.0	8.0	6.0	5.0	4.6/28.7	3.0	
28	5.0	4.6/28.2	3.0		13.0	9.0	8.0	6.0	5.0	4.6	3.0	
30	5.0	4.6	3.0		12.4	9.0	8.0	6.0	5.0	4.6	3.0	2.6/32.7
32	5.0	4.6	3.0	2.6/32.1	11.2	9.0	8.0	6.0	5.0	4.6	3.0	2.6
34	5.0	4.6	3.0	2.6	10.3	9.0	8.0	6.0	5.0	4.6	3.0	2.6
36	5.0	4.6	3.0	2.6	9.4	9.0	8.0	6.0	5.0	4.6	3.0	2.6
38	5.0	4.6	3.0	2.6	8.7	8.7	8.0	6.0	5.0	4.6	3.0	2.6
40	5.0	4.6	3.0	2.6	7.9	7.9	7.9	6.0	5.0	4.6	3.0	2.6
42	5.0	4.6	3.0	2.6	7.4	7.4	7.4	6.0	5.0	4.6	3.0	2.6
44	5.0	4.6	3.0	2.6	6.7	6.7	6.7	6.0	5.0	4.6	3.0	2.6
46	5.0	4.6	3.0	2.6	6.3	6.3	6.3	6.0	5.0	4.6	3.0	2.6
48	5.0	4.6	2.9	2.5	5.9	5.9	5.9	5.9	5.0	4.6	2.9	2.5
50	5.0/48.3	4.6/48.3	2.9/48.3	2.5/48.3	5.7/50.9	5.7/50.9	5.7/50.9	5.7/50.9	5.0/50.9	4.6/50.9	2.9/50.9	2.5/50.9
Counterweight (t)	53+16											

Boom length (m)		60				63						
Jib length (m)	13	19	25	31	13	19						
Jib angle	15°		30°		15°		30°					
Radius (m)												
18	13.0/18.6								13.0/19.2			
20	13.0	9.0/21.4	8.0/21.2						13.0		8.0/21.8	
22	13.0	9.0	8.0			5.0/23.9			13.0	9.0	8.0	
24	13.0	9.0	8.0	6.0/25.4	5.0				13.0	9.0	8.0	6.0/25.9
26	13.0	9.0	8.0	6.0	5.0			3.0/26.5	13.0	9.0	8.0	6.0
28	13.0	9.0	8.0	6.0	5.0	4.6/29.3	3.0		13.0	9.0	8.0	6.0
30	13.0	9.0	8.0	6.0	5.0	4.6	3.0		13.0	9.0	8.0	6.0
32	12.6	9.0	8.0	6.0	5.0	4.6	3.0	2.6/33.2	12.4	9.0	8.0	6.0
34	11.4	9.0	8.0	6.0	5.0	4.6	3.0	2.6	11.2	9.0	8.0	6.0
36	10.4	9.0	8.0	6.0	5.0	4.6	3.0	2.6	10.2	9.0	8.0	6.0
38	9.5	9.0	8.0	6.0	5.0	4.6	3.0	2.6	9.3	9.0	8.0	6.0
40	8.8	8.8	8.0	6.0	5.0	4.6	3.0	2.6	8.6	8.6	8.0	6.0
42	8.0	8.0	8.0	6.0	5.0	4.6	3.0	2.6	7.8	7.8	7.8	6.0
44	7.4	7.4	7.4	6.0	5.0	4.6	3.0	2.6	7.2	7.2	7.2	6.0
46	6.7	6.7	6.7	6.0	5.0	4.6	3.0	2.6	6.5	6.5	6.5	6.0
48	6.3	6.3	6.3	6.0	5.0	4.6	3.0	2.6	6.1	6.1	6.1	6.0
50	5.8	5.8	5.8	5.8	5.0	4.6	3.0	2.5	5.6	5.6	5.6	5.6
52	5.4	5.4	5.4	5.4	5.0	4.6	2.9	2.5	5.0	5.0	5.0	5.0
54	5.0/53.5	5.0/53.5	5.0/53.5	5.0/53.5	5.0/53.5	4.6/53.5	2.9/53.5	2.4/53.5	4.6	4.6	4.6	4.6
56									4.2/56.1	4.2/56.1	4.2/56.1	4.2/56.1
Counterweight (t)	53+16											

# FIXED JIB LOAD CHARTS

## SCC 1500D Crawler Crane Fixed Jib Load Charts 5/5

Unit: (t)

Boom length (m)		63						66					
Jib length (m)		25		31		13		19		25		31	
Jib angle		15°		30°		15°		30°		15°		30°	
Radius (m)		15°		30°		15°		30°		15°		30°	
18						13.0/19.2							
20						13.0							
22						13.0	9.0/22.6	8.0/22.4					
24	5.0/24.4					13.0	9.0	8.0		5.0/25.0			
26	5.0		3.0/27.1			13.0	9.0	8.0	6.0/26.5	5.0		3.0/27.6	
28	5.0	4.6/29.9	3.0			13.0	9.0	8.0	6.0	5.0	4.6/30.4	3.0	
30	5.0	4.6	3.0			13.0	9.0	8.0	6.0	5.0	4.6	3.0	
32	5.0	4.6	3.0	2.6/33.8		12.2	9.0	8.0	6.0	5.0	4.6	3.0	
34	5.0	4.6	3.0	2.6		11.1	9.0	8.0	6.0	5.0	4.6	3.0	2.6/34.4
36	5.0	4.6	3.0	2.6		10.1	9.0	8.0	6.0	5.0	4.6	3.0	2.6
38	5.0	4.6	3.0	2.6		9.2	9.0	8.0	6.0	5.0	4.6	3.0	2.6
40	5.0	4.6	3.0	2.6		8.3	8.3	8.0	6.0	5.0	4.6	3.0	2.6
42	5.0	4.6	3.0	2.6		7.6	7.6	7.6	6.0	5.0	4.6	3.0	2.6
44	5.0	4.6	3.0	2.6		7.0	7.0	7.0	6.0	5.0	4.6	3.0	2.6
46	5.0	4.6	3.0	2.6		6.4	6.4	6.4	6.0	5.0	4.6	3.0	2.6
48	5.0	4.6	3.0	2.6		5.9	5.9	5.9	5.9	5.0	4.6	3.0	2.6
50	5.0	4.6	3.0	2.5		5.4	5.4	5.4	5.4	5.0	4.6	3.0	2.5
52	5.0	4.6	3.0	2.5		4.8	4.8	4.8	4.8	4.8	4.6	3.0	2.5
54	4.6	4.6	2.9	2.4		4.4	4.4	4.4	4.4	4.4	4.4	2.9	2.4
56	4.2/56.1	4.2/56.1	2.9/56.1	2.3/56.1		4.0	4.0	4.0	4.0	4.0	4.0	2.9	2.4
58						3.5	3.5	3.5	3.5	3.5	3.5	2.8	2.3
60						3.4/58.7	3.4/58.7	3.4/58.7	3.4/58.7	3.4/58.7	3.4/58.7	2.8/58.7	2.2/58.7
Counterweight (t)		53+16											

Boom length (m)		69						75					
Jib length (m)		13		19		25		31		13			
Jib angle		15°		30°		15°		30°		15°			
Radius (m)		15°		30°		15°		30°		15°			
18													
20	13.0/20.3									13.0/21.5			
22	13.0	9.0/23.1	8.0/22.9							13.0	9.0/24.3		
24	13.0	9.0	8.0			5.0/25.6				13.0	9.0		
26	13.0	9.0	8.0	6.0/27.1		5.0				13.0	9.0		
28	13.0	9.0	8.0	6.0		5.0		3.0/28.2		13.0	9.0		
30	13.0	9.0	8.0	6.0		5.0	4.6/31.0	3.0		13.0	9.0		
32	12.2	9.0	8.0	6.0		5.0	4.6	3.0		11.8	9.0		
34	11.0	9.0	8.0	6.0		5.0	4.6	3.0	2.6/35.0	10.6	9.0		
36	10.0	9.0	8.0	6.0		5.0	4.6	3.0	2.6	9.5	9.0		
38	9.1	9.0	8.0	6.0		5.0	4.6	3.0	2.6	8.7	8.7		
40	8.2	8.2	8.0	6.0		5.0	4.6	3.0	2.6	7.8	7.8		
42	7.6	7.6	7.6	6.0		5.0	4.6	3.0	2.6	7.1	7.1		
44	7.0	7.0	7.0	6.0		5.0	4.6	3.0	2.6	6.4	6.4		
46	6.3	6.3	6.3	6.0		5.0	4.6	3.0	2.6	5.8	5.8		
48	5.8	5.8	5.8	5.8		5.0	4.6	3.0	2.6	5.1	5.1		
50	5.2	5.2	5.2	5.2		5.0	4.6	3.0	2.5	4.6	4.6		
52	4.7	4.7	4.7	4.7		4.7	4.6	3.0	2.5	4.1	4.1		
54	4.2	4.2	4.2	4.2		4.2	4.2	2.9	2.4	3.6	3.6		
56	3.7	3.7	3.7	3.7		3.7	3.7	2.9	2.4	3.2	3.2		
58	3.4	3.4	3.4	3.4		3.4	3.4	2.8	2.3	2.8	2.8		
60	3.0	3.0	3.0	3.0		3.0	3.0	2.8	2.2	2.4	2.4		
Counterweight (t)		53+16											









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