SANY®

SCC1000A

SANY Crawler Crane
100 Tons Lifting Capacity

Quality Changes the World

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Crawler Crane Series
SCC1000A

A

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100 TONS LIFTING CAPACITY

QUALITY CHANGES THE WORLD

Main Characteristics

Driver's cab

Operating Comfort

- Fully-enclosed steel frame structure is adopted, and the front, side, and the top of the cab are installed with large high-strength tempered glass, which admits sufficient light. The driver's cab is bright with ample space, providing wider view and better noise-proof. Multimode and multilevel adjustable suspension seat is mounted with minimum vibration, bringing the most comfortable driving experience for the operator. Air conditioning and heater are designed to ensure the perfect temperature for operator. Better man-machine interactive interface are realized through integrated 14-inch touch screen, programmable key switch and vibrating handle (optional). On the left console mounted swing control handle, switches, emergent stop, radio and A/C panel; on the right console mounted three independent one-axis handles controlling winches, and two one-axis travel handles, as well as ignition, engine throttle and winch speed buttons. The total layout is more human-friendly and compliant to operators habits.

Closed Circuit Monitoring System

- The screen can mostly present four pictures on one page, showing the wire rope reeving on each winch, surroundings behind counterweight and environment around the machine.

Upperworks

Engine

- Isuzu (EU Tier III emission standard)
- Rated power 212 Kw;
- Rated revolution speed 2000rpm;
- Total Displacement: 7.79L;
- Revolution speed at max. output torque 1080N·m/1500rpm.

Electrical Control System

- SYIC-2 integrated control system independently developed is adopted to ensure high system integration, accurate operation, and reliable quality. The control system mainly includes power system, engine system, master control system, load moment limiter system, auxiliary system, and safety monitoring system. Main electrical components are from internationally or industrially well-known brands with reliable quality, which can perform stably in such bad environment as in severe low or high temperature, plateau, and sandstorms.
- The controller, display (integrated load moment limiter and remote control terminal), and the engine communicates through CAN Bus.
- Work parameters, such as the engine speed, fuel volume, engine oil pressure, servo pressure, wind speed, engine work hours, load conditions and boom angle are shown on the display.

Hydraulic System

- The hydraulic system includes main pump, main valve, operating handles and motors that are from internationally famous brands, saving energy and boosting efficiency while maintaining the stability and reliability.
- Increase efficiency of load hoisting and other multi-functions to hold the speed unchanged. Inching function of all actions is well performed.
- Strong heat exchange of hydraulic system is designed to improve heat balance. Automatic warm-up function is included to fit the machine perfectly to environment with higher or lower temperature, and protect the hydraulic components for longer service life.

Swing Mechanism

- Internal-mesh swing drive can swing the upperworks by 360°.
- Swing lock: Automatic cylinder lock pin can be controlled through switch on EPAD in the cab. When the operation is over or the machine is in transport, the upperworks can be locked tightly.
- Swing bearing: single row ball bearing.
- Swing speed: 0-2.7rpm

Main and Aux. Hoist Mechanism

- Main and aux. hoist winches are driven separately by motor via gearbox. Operating winch handle can control the winch to rotate to two directions, which are lifting and lowering of hook. Excellent inching function is equipped on the machine.
- Drums with fold-line grooves can ensure the wire rope reeved in order in multilayers.

Main Hoisting Mechanism	Drum diameter	630mm
	Rope speed on the outermost work layer	0~121m/min
	Wire rope diameter	26mm
	Wire rope length of main hoist	240m
	Rated single line pull	12t
Auxiliary Hoisting Mechanism	Drum diameter	630mm
	Rope speed on the outermost work layer	0~121m/min
	Wire rope diameter	26mm
	Wire rope length of auxiliary hoist	180m
	Rated single line pull	12t

Boom Hoist Mechanism

- Boom hoist winches are driven separately by motor via gearbox. Operating winch handle can control the winch to rotate to two directions, which are lifting and lowering of boom.
- Drums with fold-line grooves can ensure the wire rope reeved in order in multilayers.

Boom hoist mechanism	Drum diameter	400mm
	Rope speed on the outermost work layer	0~59m/min
	Wire rope diameter	20mm
	Wire rope length of boom luffing	140m
	Rated single line pull	7t

Counterweight

- Counterweight tray and blocks are piled up for easier assembly and transport.
- Rear counterweight: total 31.2t. There are normal rear counterweight (standard offering) and self-assembled counterweight (optional offering).
- Normal counterweight: tray 8.26t×1, left counterweight block 3.9t×2, right counterweight block 3.9t×2, left counterweight block 3.68t×1, and right counterweight block 3.68t×1.
- Optional self-assembled counterweight: tray 9.9t×1, left counterweight block 3.45t×3, and right counterweight block 3.45t × 3, cylinder bracket 0.6x1.
- Carbody counterweight: 5.5t×2 at the front and rear of carbody.

Lowerworks

- Independent travel driving units are adopted for each side of the crawler, to realize straight walking and turning driven by travel motor through gearbox and drive wheel.

Crawler Extension and Retraction

- The crawlers can extend and retract via cylinders. During Work Mode, the crawlers must be extended, and retracted during transport with crawlers on.

Crawler Tensioning

- The jack is used to push the guide wheel and insert the shim to adjust crawler tension.

Track Pad

- High-strength alloy cast steel track pad can prolong the service life. They are 850mm wide, and the total amount is 52pcs x 2.

Outrigger

- Outrigger cylinder is offered as optional to facilitate the track frame disassembly during jobsite transfer.

Operating Equipment

- All chords are high-strength steel tubes, and the boom/jib top sheaves are made of high-strength anti-wearing Nylon material protecting wire rope. The hooks are installed with milled welded steel sheave. Pendant cables with quick hitch connector that are easy to assemble are offered as options.

Boom

- Lattice structure. The chord adopts high-strength structural tube and each section is connected through pins.
- Basic boom: 6.5m boom top + 6.5m boom base;
- Boom insert: 3m×1, 6m×2, 9m×4;
- Boom length: 13m~64m.

Fixed Jib

- Lattice structure. The chord adopts high-strength structural tube and each section is connected through pins.
- Basic boom: 4.5m boom top + 4.5m boom base;
- Boom insert: 4.5m x 2;
- Boom length: 9m~18m;
- Longest boom + jib: 52m boom +18m jib.

Extension Jib

- The extension jib is a welded structure connected to the boom tip by pins, used for auxiliary hook.
- Extension jib length: 1.2m.

Hook Block

- 100t hook block, five sheaves;
- 50t hook block, three sheaves;
- 25t hook block, one sheave;
- 13.50t ball hook

Safety Device

Assembly Mode/Work Mode Switch

- In Assembly Mode, the over-hoist protection, boom limit, LML are all off work to facilitate crane assembly;
- In Work Mode, all safety devices activate to protect the operation.

Emergent Stop

- In emergent situation, this button is pressed down to cut off the power supply of whole machine and all actions stop.

Load Moment Limiter (LML)

- It is an independent computerized safety control system. LML can automatically detect the load weight, work radius and boom angle, and present on the display the rated load, actual load, work radius and boom angle. In normal operation, the LML can make a judgment and cut off automatically if the crane moves towards dangerous direction. It can also perform as a black box to record the lifting information.

Over-hoist Protection of the Main/Auxiliary Hooks

- Over-hoist protection device comprises of limit switch and weight on boom top, which prevents the hook lift up too much. When the hook lifts up to the limit height, the limit switch activates, buzzer on the left control panel sends alarm, and failure indicator light starts to flash, the hook hoisting action is cut off automatically.

Over-release Protection Device of the Main/Auxiliary Winch

- It is comprised of activator in the drum and proximity switch to prevent over release of wire rope. When the rope is paid out close to the last three wraps, the limit switch acts, and the system sends alarm through buzzer and show the alarm on the instrument panel, automatically cutting off the winch action.

Function Lock

- If the function lock level is not in work position, all the other handles won't work, which prevents any mis-operation caused by accidental collision.

Drum Lock

- Hydraulic-controlled lock is installed for boom hoist drum, which needs to unlock by switch before operation, in order to prevent mis-operation of handles and ensure safety during non-work time.

Swing Lock

- Swing Lock can lock the machine at four positions, front and back, left and right.

Boom Limit Device

- When the boom elevation angle is over 80°, the buzzer sounds and boom action cut off. This protection is two-stage control ensured by both LML system and travel switch.

Back-stop Device

- Its major components are nesting tubes and spring, in order to buffer the boom backlash and prevent further tipping back.

Boom Angle Indicator

- Pendulum angle indicator is fixed on the side of boom base close to the cab, so as to provide convenience to the operator.

Hook Latch

- The lifting hook is installed with a baffle plate to prevent wire rope from falling off.

Safety Device

Monitoring System

- Remote Monitoring system is a standardized offering to provide functions like GPS locating, GPRS data transfer, machine status inquiry and statistics, operating data monitoring and analysis, remote diagnosis of failures.

Lightning Protection Device

- It is offered as an optional feature, which includes the grounding device that can effectively protect the electric system elements and workers from lightning.

Tri-color Load Indicator

- The load indication light has three colors, green, yellow and red, and the real time load status is presented on the display. When the actual load is smaller than 90% of rated load, the green light is on; when the actual load is larger than 90% and smaller than 100%, the yellow light is on, the alarm light flashes and sends out intermittent sirens; when the actual load reaches 100% of rated load, the red light on, the alarm light flashes and sends out continuous sirens. At this moment, the system will automatically cut off the crane's dangerous operation.

Audio-Visual Alarm

- When the engine is working, the light flashes; when the machine is traveling or swinging, it sends out siren.

Swing Indicator Light

- The swing indicator light flashes during traveling or swing.

Illuminating Light

- The machine is equipped with, short-beam light in front of machine, front angle adjustable far-beam, lamps in operator's cab, lighting devices for night operation, so as to increase the visibility during work.

Rearview Mirror

- It is installed on the left of the operator's cab for monitoring the rear part of the machine.

Pharos

- Pharos is mounted on the top of boom/jib to indicating the height.

Anemometer

- It is mounted on the top of boom/jib, and displayed on the monitor in the cab.

Electronic Level Gauge

- It displays the tipping angle of crane on the monitor in real time, protecting the machine from dangerous situation.

Operation Release

- If the operator leaves the seat, all control handles will be locked immediately to prevent any mis-operation due to accidental collision.

Engine Power Limit Load Adjustment and Stalling Prot ection

- The controller monitors the engine power to prevent engine getting stuck and stalling.

Engine Status Monitoring

- The engine status will be presented, such as engine coolant temperature, fuel volume, total work hours, engine oil pressure, engine speed, battery charging, voltage.

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Technical Parameters

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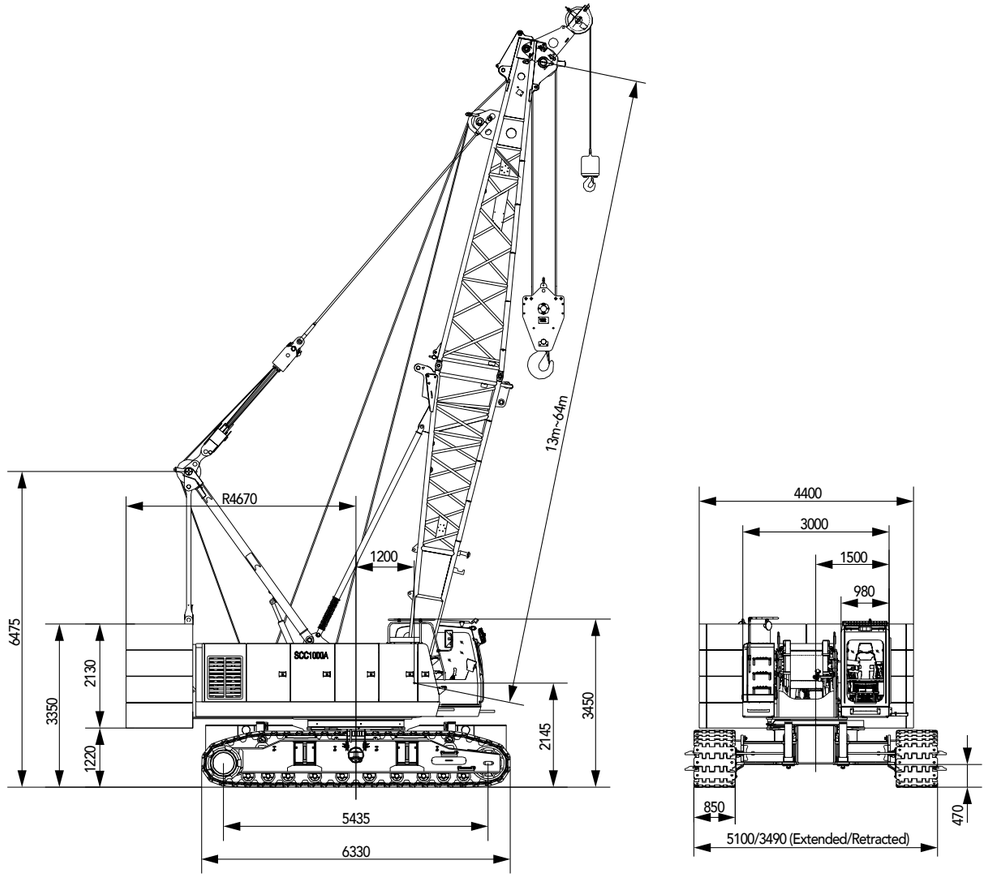
Major Performance & Specifications

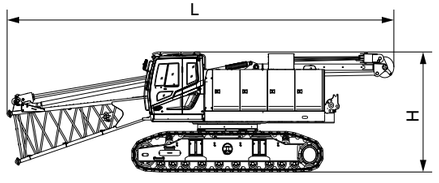
Major Performance & Specifications of SCC1000A			
Performance Indicators		Unit	Parameter
Configuration	Max. rated lifting capacity	t	100
	Boom length	m	13~64
	Boom luffing angle	°	30~80
FJ	Max. rated lifting capacity	t	11
	Jib length	m	9~18
	Longest boom + longest jib	m	52+18
	Jib angle	°	15，30
Speed	Rope speed of main/aux. winch (1st layer)	m/min	121
	Rope speed of boom hoist winch (3rd layer)	m/min	59
	Swing speed	rpm	2.7
	Travel speed	km/h	2\1
Wire rope	Main hoist wire rope: diameter × length	ϕ mm×m	26×240
	Aux. hoist wire rope: diameter × length	ϕ mm×m	26×180
	Single line pull of main/aux. hoist wire rope	t	12
Engine	Model/Displacement		6HK1\7.79L
	Rated power/revolution speed	kW/ rpm	212/2000
Transport	Weight of basic boom	t	91t
	Rear counterweight	t	31.2
	Carbody counterweight	t	5.5×2
	Transport weight of basic machine (with crawler frame and boom base)	t	46.5
	Transport weight of basic machine (without crawler frame)	t	28.1
	Machine transport dimension (with crawlers and boom base) L×W×H	mm	13300×3490×3450
	Machine transport dimension (without crawlers and boom base) L×W×H	mm	8450×3000×3050
Other specifications	Average ground pressure (basic boom)	MPa	0.091
	Gradeability	%	30

Outline Dimension

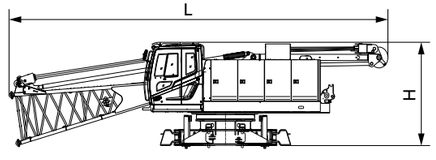


Note: Counterweight dimension in this scheme is standardized, not self-assembled. Third drum and assisting assembly cylinder for optional features are not shown in the figure.

Transport Dimension

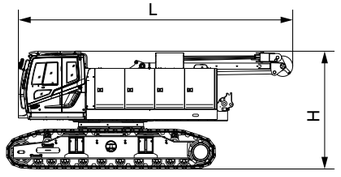


Basic Machine 1 (with boom base and crawlers)	×1
Length(L)	13.3m
Width(W)	3.49m
Height(H)	3.46m
Weight	46.5t

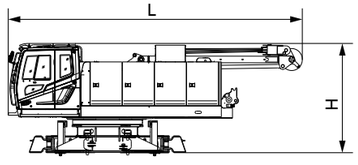


Basic Machine 2 (with boom base)	×1
Length (L)	13.3m
Width (W)	3.00m
Height (H)	3.07m
Weight	28.1t

Note: Optional outriggers are shown in the scheme.

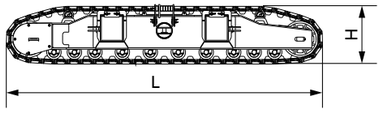


Basic Machine 3 (with crawlers)	×1
Length (L)	8.67m
Width (W)	3.49m
Height (H)	3.46m
Weight	44.6t

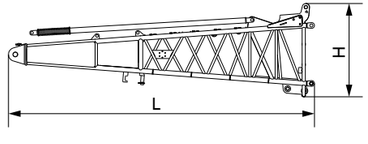


Basic Machine 4	×1
Length(L)	8.31m
Width(W)	3.00m
Height(H)	3.07m
Weight	26.2t

Note: Optional outriggers are shown in the scheme.



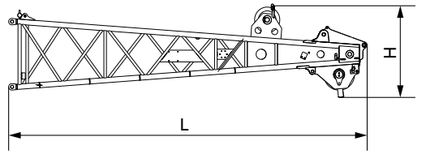
Crawlers	×1
Length(L)	6.33 m
Width(W)	1.09m
Height(H)	1.15m
Weight	9.2t



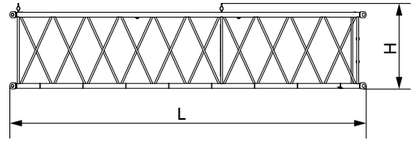
Boom Base	×1
Length(L)	6.72 m
Width(W)	1.78m
Height(H)	2.06m
Weight	1.90t

Note: It doesn't include auxiliary cylinder and 3rd winch.

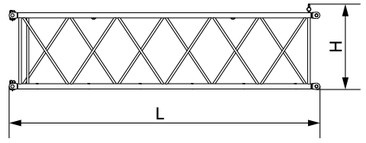
Transport Dimension



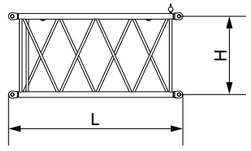
Boom Top	×1
Length(L)	7.13 m
Width(W)	1.49m
Height(H)	1.79m
Weight	1.35t



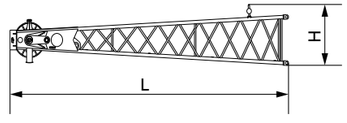
9m Boom Insert	×4
Length (L)	9.14 m
Width (W)	1.51m
Height (H)	1.47m
Weight	1.0t



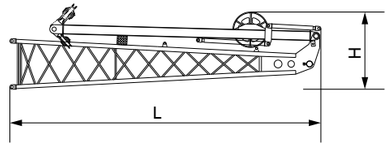
6m Boom Insert	×2
Length (L)	6.14 m
Width (W)	1.51m
Height (H)	1.47m
Weight	0.75t



3m Boom Insert	×1
Length(L)	3.14 m
Width(W)	1.51m
Height(H)	1.47m
Weight	0.48t

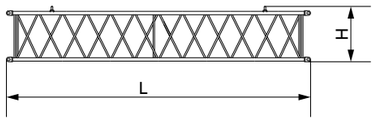


Fixed Jib Top	×1
Length(L)	4.93m
Width(W)	0.87m
Height(H)	0.92m
Weight	0.31t

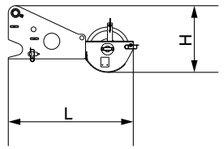


Fixed Jib Base and Strut	×1
Length(L)	4.75 m
Width(W)	0.87m
Height(H)	1.18m
Weight	0.75t

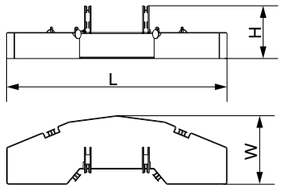
Transport Dimension



4.5m Fixed Jib	×2
Length(L)	4.57m
Width(W)	0.87m
Height(H)	0.83m
Weight	0.24t

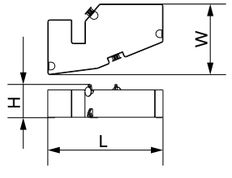


Extension Jib	×1
Length (L)	1.55m
Width (W)	0.96m
Height (H)	0.82m
Weight	0.30t

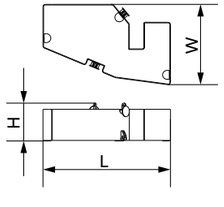


Counterweight Tray	×1
Length (L)	4.40 m
Width (W)	1.37m
Height (H)	1.05m
Weight	8.26t

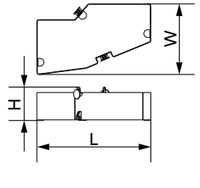
Note: for standardized counterweight, not optional self-assembled one.



Left Counterweight Block I	×1
Length(L)	2.19 m
Width(W)	1.37m
Height(H)	0.65m
Weight	3.68t

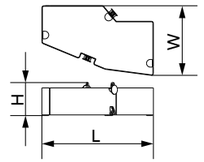


Right Counterweight Block I	×1
Length(L)	2.19 m
Width(W)	1.37m
Height(H)	0.65m
Weight	3.68t

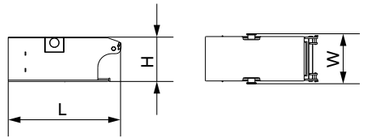


Left Counterweight Block II	×2
Length(L)	2.19 m
Width(W)	1.37m
Height(H)	0.65m
Weight	3.9t

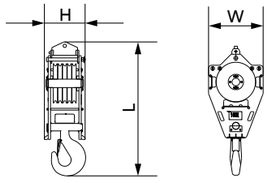
Transport Dimension



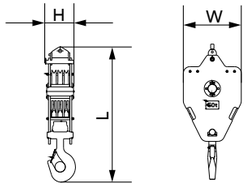
Right Counterweight Block II	×2
Length(L)	2.19 m
Width(W)	1.37m
Height(H)	0.65m
Weight	3.9t



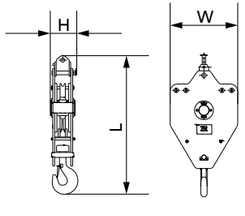
Carbody Counterweight	×2
Length (L)	2.02 m
Width (W)	0.90m
Height (H)	0.80m
Weight	5.5t



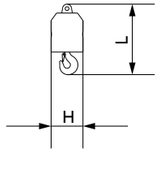
100T hook	×1
Length (L)	2.08m
Width (W)	0.85m
Height (H)	0.63m
Weight	1.36t



50T hook	×1
Length(L)	1.95 m
Width(W)	0.90m
Height(H)	0.45m
Weight	1.04t



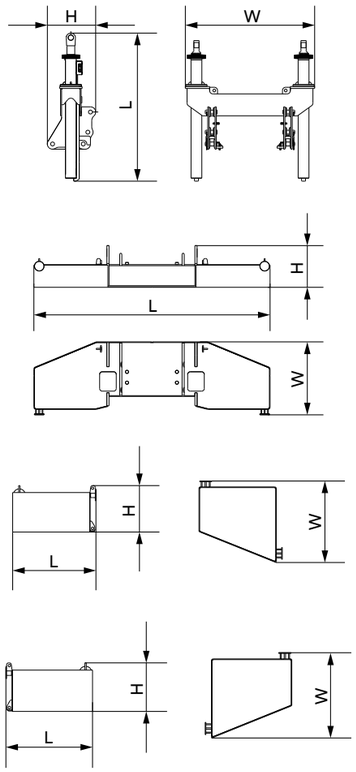
25T hook	×1
Length(L)	1.86 m
Width(W)	0.90m
Height(H)	0.35m
Weight	0.79t



13.5T Ball Hook	×1
Length(L)	0.95m
Width(W)	0.43m
Height(H)	0.43m
Weight	0.47t

Transport Dimension

The followings are for optional self-assembled counterweight



Counterweight cylinder bracket	×1
Length(L)	2.28 m
Width(W)	1.98m
Height(H)	0.74m
Weight	1.4t

Note: weight includes that for chains and pendant bar

Counterweight tray	×1
Length (L)	4.40 m
Width (W)	1.35m
Height (H)	0.77m
Weight	9.9t

Left Counterweight Block	×3
Length (L)	1.33 m
Width (W)	1.26m
Height (H)	0.72m
Weight	3.45t

Right Counterweight Block	×3
Length(L)	1.33 m
Width(W)	1.26m
Height(H)	0.72m
Weight	3.45t

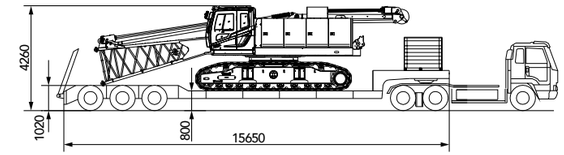
Note:
1.The transport dimensions of each part in the table are schematic, not proportional to the real parts. The dimensions are designed value without package considered.
2.The Weight is designed value that the actual manufactured part may deviate a little.

Transport Plan

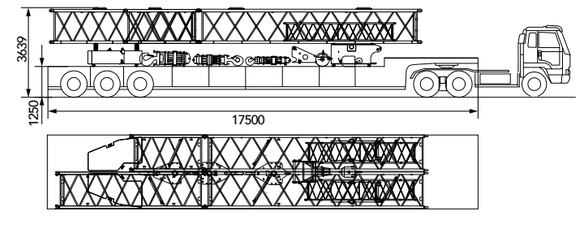
With crawlers

Trailer 1	
Part(s)	▪ Basic machine
Weight	▪ 46.5t

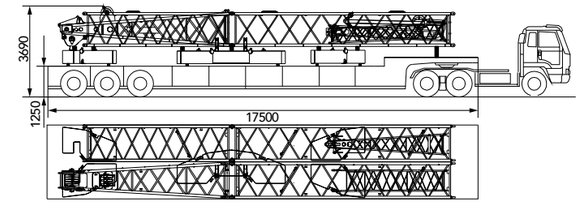
Note: The machine can be transported without crawlers and boom base. Without crawlers, the basic machine meets 3m transport width.



Trailer 2	
Part(s)	▪ 9m boom ×2 ▪ 6m boom×1 ▪ 3m boom ×1 ▪ Extension jib ×1 ▪ 4.5m fixed jib ×2 ▪ Carbody counterweight × 2 ▪ Left counterweight II×1 ▪ Right counterweight II×1 ▪ 100t hook ×1 ▪ 50t hook ×1 ▪ 25t hook ×1 ▪ 13.5t hook ×1
Weight	▪ 26.5t



Trailer 3	
Part(s)	▪ 9m boom ×2 ▪ 6m boom ×1 ▪ Boom top ×1 ▪ Fixed jib base ×1 ▪ Fixed jib top ×1 ▪ Counterweight tray ×1 ▪ Left counterweight I×1 ▪ Right counterweight I×1 ▪ Left counterweight II×1 ▪ Right counterweight II×1
Weight	▪ 28.5t



C

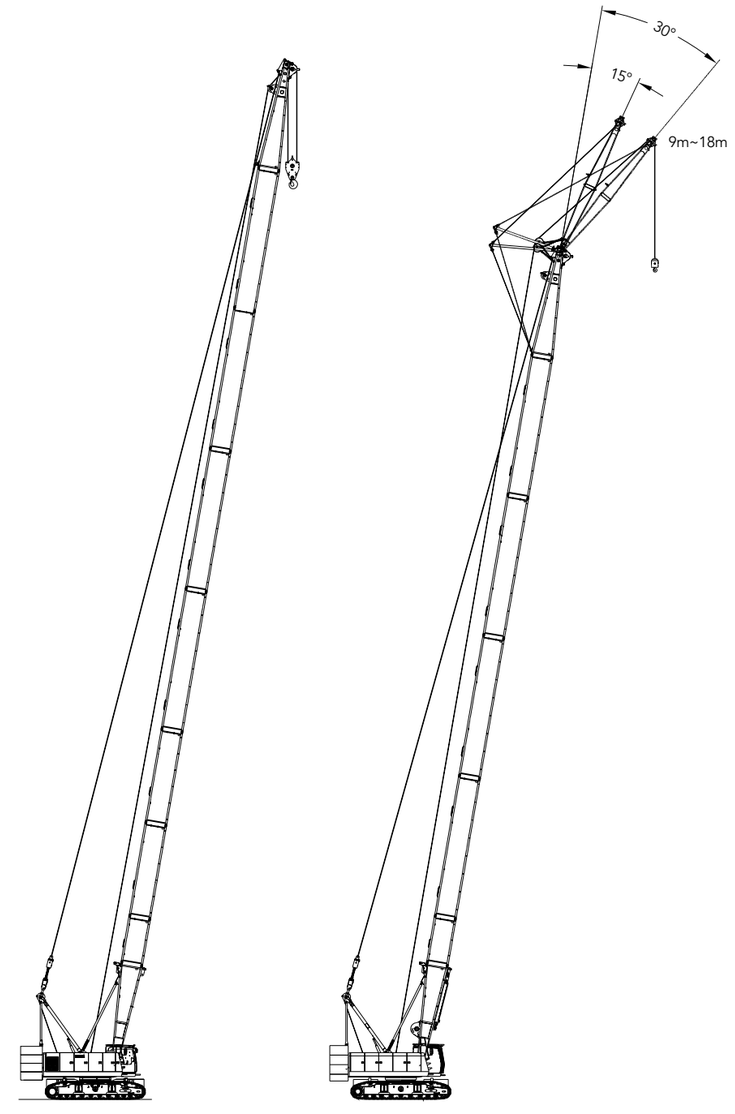
SCC1000A
SANY CRAWLER CRANE
100 TONS LIFTING CAPACITY

QUALITY CHANGES THE WORLD

Cofiguration

> 18

Combination



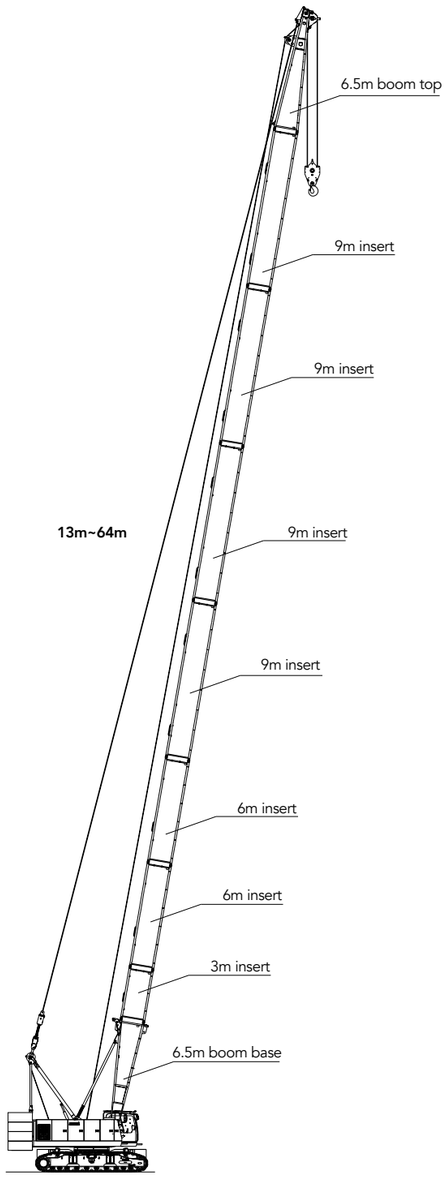
H Configuration
13m~64m

FJ Configuration
31m~52m

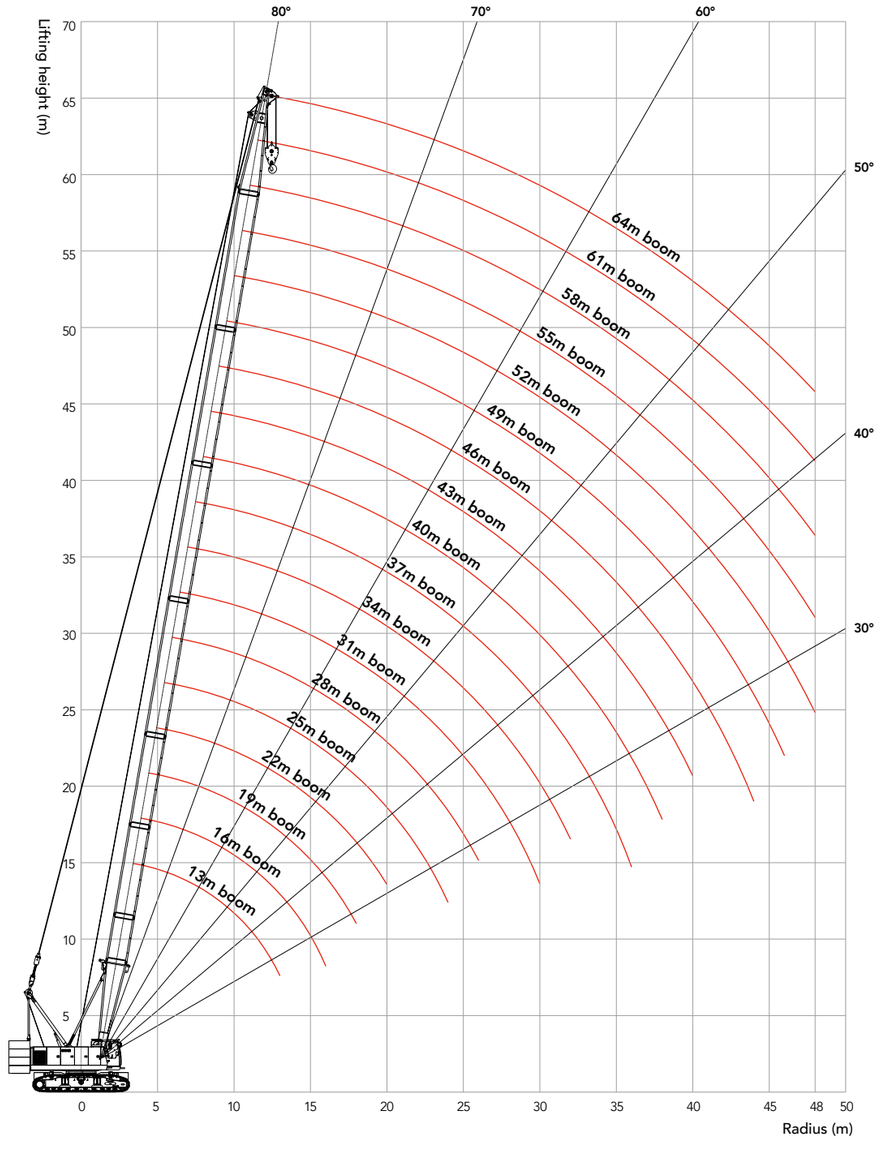
Boom Combination in H

Boom Combination in H Configuration

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



Working Radius in H Configuration



Unit: t

Load Chart of H Configuration

SCC1000A – H 1/2										
31t Rear Counterweight + 11t Carbody Counterweight										
R/BL (m)	13	16	19	22	25	28	31	34	37	R/BL (m)
3.8	100									3.8
4	90									4
4.5	84.2	82								4.5
5	75	73								5
5.5	69	68.8	68.2							5.5
6	62.9	62.2	61.4	59.2						6
6.5	55.6	55.1	54.6	53.8	52					6.5
7	49.9	49.4	49	48.6	47.6	46.2				7
7.5	45.1	44.7	44.3	44	43.6	42.7	41.5			7.5
8	41.2	40.8	40.5	40.2	39.8	39.5	38.6	37.5		8
9	35.1	34.7	34.4	34.2	33.9	33.6	33.4	32.9	32.1	9
10	30.5	30.1	29.9	29.7	29.4	29.2	28.9	28.7	28.4	10
11	26.9	26.6	26.4	26.2	25.9	25.7	25.5	25.2	25	11
12	24	23.7	23.5	23.4	23.1	22.9	22.7	22.5	22.3	12
13	21.7	21.4	21.2	21	20.8	20.6	20.4	20.2	20	13
14		19.5	19.3	19.1	18.9	18.7	18.5	18.3	18.2	14
15		17.8	17.7	17.5	17.3	17.1	16.9	16.7	16.6	15
16		16.4	16.3	16.1	15.9	15.7	15.6	15.3	15.2	16
18			14	13.8	13.6	13.5	13.3	13.1	12.9	18
20				12.1	11.8	11.7	11.6	11.3	11.2	20
22					10.4	10.3	10.1	9.9	9.8	22
24					9.3	9.1	9	8.8	8.6	24
26						8.2	8	7.8	7.7	26
28							7.2	7	6.9	28
30							6.5	6.3	6.2	30
32								5.7	5.6	32
34									5	34
36									4.6	36

Unit: t

Load Chart of H Configuration

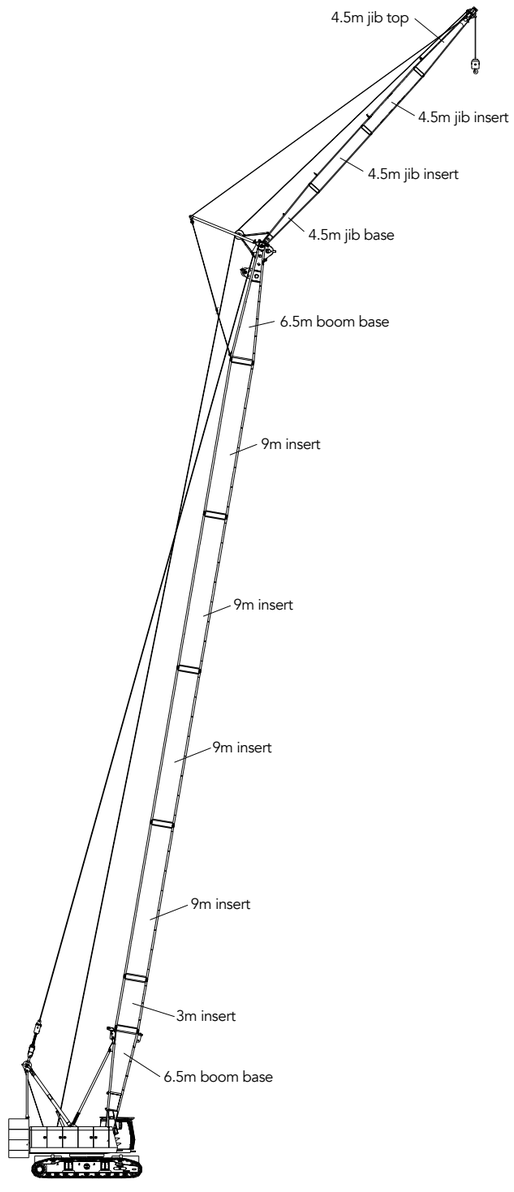
SCC1000A – H 2/2										
31t Rear Counterweight + 11t Carbody Counterweight										
R/BL (m)	40	43	46	49	52	55	58	61	64	R/BL (m)
9	31.4									9
10	27.9	27.2								10
11	24.8	24.5	23.9	23.4						11
12	22.1	21.9	21.7	21.2	20.7					12
13	19.9	19.6	19.5	19.3	18.9	18.1	16			13
14	18	17.8	17.6	17.4	17.2	16.9	15.4	14.2		14
15	16.4	16.2	16	15.9	15.6	15.5	14.8	13.6	11.8	15
16	15	14.8	14.7	14.5	14.3	14.1	13.9	12.9	10.5	16
18	12.8	12.6	12.4	12.3	12.1	11.9	11.7	11.6	9.8	18
20	11.1	10.8	10.7	10.6	10.3	10.2	10	9.9	8.8	20
22	9.7	9.4	9.3	9.2	9	8.8	8.6	8.5	7.8	22
24	8.5	8.3	8.2	8	7.8	7.7	7.5	7.4	6.8	24
26	7.6	7.3	7.2	7.1	6.9	6.7	6.5	6.4	5.8	26
28	6.7	6.5	6.4	6.3	6.1	5.9	5.7	5.6	5.2	28
30	6	5.8	5.7	5.6	5.4	5.2	5	4.9	4.5	30
32	5.4	5.2	5.1	5	4.8	4.6	4.4	4.3	3.9	32
34	4.9	4.7	4.6	4.4	4.2	4.1	3.9	3.8	3.4	34
36	4.4	4.2	4.1	4	3.8	3.6	3.4	3.3	2.9	36
38	4	3.8	3.7	3.6	3.3	3.2	3	2.9	2.5	38
40		3.4	3.3	3.2	3	2.9	2.6	2.5	2.1	40
42			3	2.8	2.6	2.5	2.3	2.2	1.8	42
44			2.7	2.5	2.3	2.2	2	1.9	1.5	44
46				2.3	2.1	1.9	1.7	1.6	1.2	46
48					1.8	1.7	1.5	1.3	1	48

Notes: Rated capacity of crawler crane

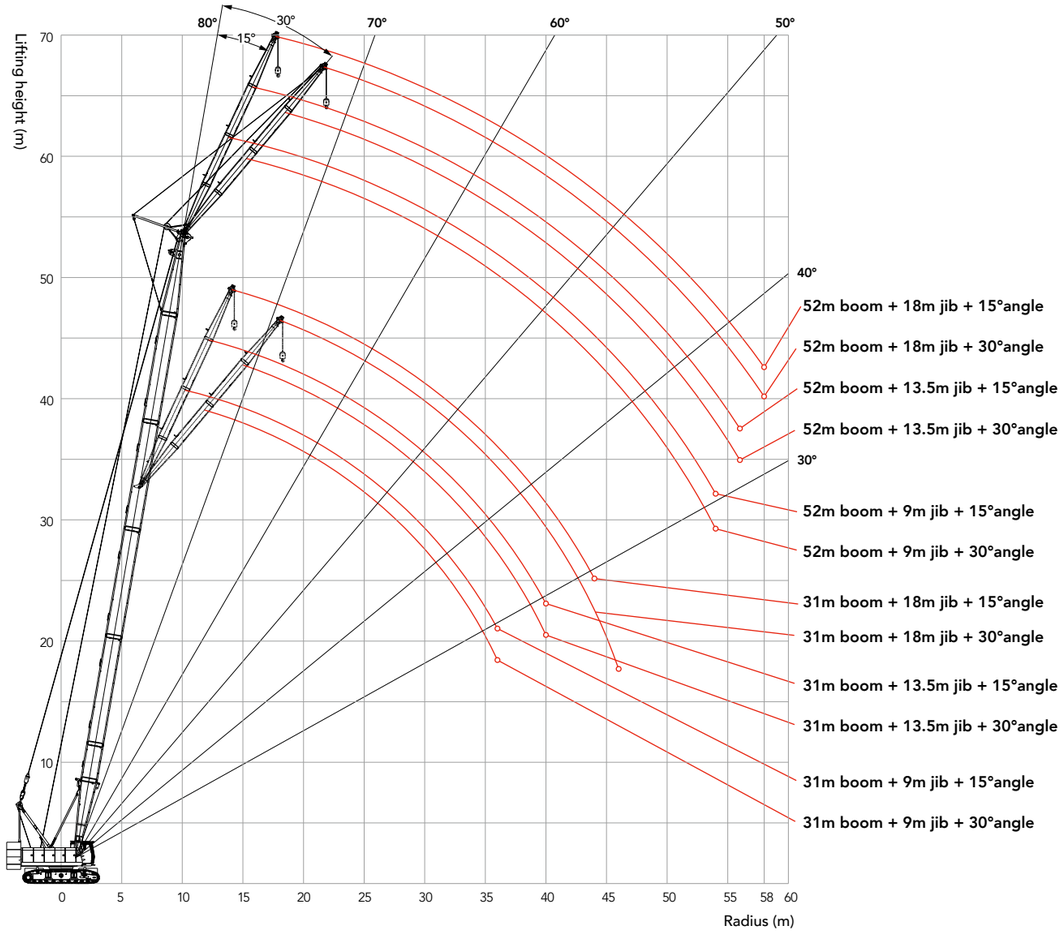
1. The rated capacity in the load charts is calculated based on conditions that the crane is parking on firm and level ground, lifting the load slowly and steadily.
2. The rated capacity values listed in the table are only valid when wind speed is lower than 9.8m/s.
3. The rated capacity listed in the table includes the weight of hook, wire rope and other riggings; therefore, the actual rated capacity shall deduct the weight of these components. (1.36t of 100t hook weight, 1.04t of 50t hook weight, 0.79t of 25t hook weight, 0.45t of 13.5t hook weight).
4. The crawlers must be extended during lifting.
5. The values listed in the load chart are valid for 360° swing.

Boom Combination of FJ Configuration

Boom Combination of FJ Configuration	
Jib Length (m)	Insert 4.5m
9	-
13.5	1
18	2



Working Radius in FJ Configuration



Unit: t

Load Chart of FJ Configuration

SCC1000A – FJ 1/4

31t Rear Counterweight + 11t Carbody Counterweight

R/BL (m)	31						34						R/BL (m)
Jib Length (m)	9		13.5		18		9		13.5		18		Jib Length (m)
Boom to Jib Angle	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	Boom to Jib Angle
12	11												12
13	11						11						13
14	11	11	11				11	11					14
15	11	11	11				11	11	11				15
16	11	11	11	11	11		11	11	11		11		16
18	11	11	11	11	11		11	11	11	11	10.9		18
20	11	11	11	11	10.8	9.1	11	11	11	11	10.6	8.9	20
22	10.4	10.5	10.5	10.7	10	8.9	10.2	10.4	10.3	10.6	9.9	8.7	22
24	9.2	9.3	9.3	9.5	9.3	8.7	9	9.2	9.1	9.4	9.2	8.5	24
26	8.2	8.3	8.3	8.5	8.3	8	8	8.2	8.1	8.4	8.2	7.8	26
28	7.4	7.5	7.5	7.6	7.5	7.2	7.2	7.3	7.3	7.5	7.3	7.6	28
30	6.7	6.8	6.7	6.9	6.8	7	6.5	6.6	6.6	6.8	6.6	6.9	30
32	6	6.1	6.1	6.3	6.1	6.4	5.8	5.9	5.9	6.1	6	6.2	32
34	5.5	5.5	5.6	5.7	5.6	5.8	5.3	5.4	5.4	5.5	5.4	5.6	34
36	5	5	5.1	5.2	5.1	5.3	4.8	4.9	4.9	5	4.9	5.1	36
38			4.7	4.7	4.7	4.8	4.4	4.4	4.5	4.6	4.5	4.7	38
40			4.3	4.3	4.3	4.4			4.1	4.2	4.1	4.2	40
42					3.9	4			3.7	3.8	3.8	3.9	42
44					3.6	3.7				3.4	3.4	3.5	44
46						3.3					3.1	3.2	46
48											2.9	2.9	48

Note: the capacity values in shade are determined by single line pull or boom strength.

Unit: t

Load Chart of FJ Configuration

SCC1000A – FJ 2/4

31t Rear Counterweight + 11t Carbody Counterweight

R/BL (m)	37						40						R/BL (m)
Jib Length (m)	9		13.5		18		9		13.5		18		Jib Length (m)
Boom to Jib Angle	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	Boom to Jib Angle
13	11												13
14	11						11						14
15	11	11	11				11						15
16	11	11	11				11	11	11				16
18	11	11	11	11	10.8		11	11	11		10.7		18
20	11	11	11	11	10.5		11	11	11	11	9.9		20
22	10	10.3	10.1	10.5	9.7	8.6	9.9	10.1	10	10.4	9.6	8.5	22
24	8.9	9.1	9	9.3	9	8.4	8.7	8.9	8.8	9.2	8.9	8.3	24
26	7.9	8	8	8.3	8	7.7	7.7	7.9	7.9	8.1	7.9	7.6	26
28	7.1	7.2	7.2	7.4	7.2	7.5	6.9	7.1	7	7.3	7.1	7.4	28
30	6.3	6.5	6.4	6.6	6.5	6.8	6.2	6.3	6.3	6.5	6.4	6.7	30
32	5.7	5.8	5.8	6	5.9	6.1	5.6	5.7	5.7	5.9	5.7	6	32
34	5.2	5.3	5.3	5.4	5.3	5.5	5	5.2	5.1	5.3	5.2	5.4	34
36	4.7	4.8	4.8	4.9	4.8	5	4.6	4.7	4.6	4.8	4.7	4.9	36
38	4.3	4.3	4.3	4.5	4.4	4.6	4.1	4.2	4.2	4.4	4.3	4.5	38
40	3.9	3.9	4	4.1	4	4.1	3.7	3.8	3.8	3.9	3.9	4	40
42	3.5	3.6	3.6	3.7	3.6	3.8	3.4	3.4	3.5	3.6	3.5	3.7	42
44			3.3	3.3	3.3	3.4	3.1	3.1	3.2	3.2	3.2	3.3	44
46			3	3	3	3.1			2.9	2.9	2.9	3	46
48					2.7	2.8			2.6	2.6	2.6	2.7	48
50					2.5	2.5					2.4	2.5	50
52											2.1	2.2	52
54												2	54

Note: the capacity values in shade are determined by single line pull or boom strength.

Unit: t

Load Chart of FJ Configuration

SCC1000A – FJ 3/4

31t Rear Counterweight + 11t Carbody Counterweight

R/BL (m)	43						46						R/BL (m)
Jib Length (m)	9		13.5		18		9		13.5		18		Jib Length (m)
Boom to Jib Angle	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	Boom to Jib Angle
14	11												14
15	11						11						15
16	11	11	11				11						16
18	11	11	11		10		11	11	11				18
20	11	11	11	11	9.7		11	11	11	10.7	9.6		20
22	9.7	10	9.8	10.2	9.5	8.4	9.6	9.9	9.7	10	8.9		22
24	8.5	8.8	8.7	9	8.7	8.2	8.4	8.7	8.5	8.9	8.6	7.6	24
26	7.6	7.8	7.7	8	7.8	7.5	7.4	7.6	7.6	7.9	7.6	7.4	26
28	6.7	6.9	6.8	7.1	6.9	7.3	6.6	6.8	6.7	7	6.8	7.2	28
30	6	6.2	6.1	6.4	6.2	6.5	5.9	6.1	6	6.3	6.1	6.4	30
32	5.4	5.5	5.5	5.7	5.6	5.9	5.3	5.4	5.4	5.6	5.4	5.8	32
34	4.9	5	5	5.2	5	5.3	4.7	4.9	4.8	5	4.9	5.2	34
36	4.4	4.5	4.5	4.6	4.5	4.8	4.2	4.4	4.3	4.5	4.4	4.7	36
38	3.9	4	4	4.2	4.1	4.3	3.8	3.9	3.9	4.1	4	4.2	38
40	3.6	3.6	3.6	3.8	3.7	3.9	3.4	3.5	3.5	3.7	3.6	3.8	40
42	3.2	3.3	3.3	3.4	3.3	3.5	3.1	3.2	3.2	3.3	3.2	3.4	42
44	2.9	2.9	3	3.1	3	3.2	2.8	2.8	2.8	3	2.9	3.1	44
46	2.6	2.6	2.7	2.8	2.7	2.9	2.5	2.5	2.6	2.7	2.6	2.8	46
48			2.4	2.5	2.4	2.6	2.2	2.3	2.3	2.4	2.3	2.5	48
50			2.2	2.2	2.2	2.3		2	2	2.1	2.1	2.2	50
52				2	2	2.1			1.8	1.9	1.9	2	52
54					1.8	1.8			1.6	1.6	1.6	1.7	54
56					1.6	1.6					1.4	1.5	56
58											1.3	1.3	58

Note: the capacity values in shade are determined by single line pull or boom strength.

Unit: t

Load Chart of FJ Configuration

SCC1000A – FJ 4/4

31t Rear Counterweight + 11t Carbody Counterweight

R/BL (m)	49						52						R/BL (m)
Jib Length (m)	9		13.5		18		9		13.5		18		Jib Length (m)
Boom to Jib Angle	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	Boom to Jib Angle
15	11												15
16	11						11						16
18	11	11	11				11	11	10.4				18
20	10.9	11	10.8	9.6	9		10.7	11	10.1		8.3		20
22	9.4	9.7	9.6	9.4	8.7		9.3	9.6	9.3	8.7	8.1		22
24	8.3	8.5	8.4	8.8	8	7.5	8.1	8.4	8.2	8.5	7.8	6.8	24
26	7.3	7.5	7.4	7.8	7.5	7.3	7.1	7.4	7.3	7.6	7.4	6.6	26
28	6.5	6.7	6.6	6.9	6.7	6.6	6.3	6.5	6.4	6.8	6.5	6.5	28
30	5.8	5.9	5.9	6.2	6	6.3	5.6	5.8	5.7	6	5.8	6.2	30
32	5.1	5.3	5.3	5.5	5.3	5.7	5	5.1	5.1	5.4	5.2	5.5	32
34	4.6	4.7	4.7	4.9	4.8	5.1	4.4	4.6	4.5	4.8	4.6	4.9	34
36	4.1	4.3	4.2	4.4	4.3	4.6	3.9	4.1	4	4.3	4.1	4.4	36
38	3.7	3.8	3.8	4	3.8	4.1	3.5	3.6	3.6	3.8	3.7	4	38
40	3.3	3.4	3.4	3.6	3.4	3.7	3.1	3.2	3.2	3.4	3.3	3.5	40
42	3	3.1	3	3.2	3.1	3.3	2.8	2.9	2.9	3	2.9	3.2	42
44	2.6	2.7	2.7	2.9	2.8	3	2.5	2.5	2.5	2.7	2.6	2.8	44
46	2.4	2.4	2.4	2.6	2.5	2.7	2.2	2.2	2.2	2.4	2.3	2.5	46
48	2.1	2.1	2.2	2.3	2.2	2.4	1.9	2	2	2.1	2	2.2	48
50	1.9	1.9	1.9	2	2	2.1	1.7	1.7	1.7	1.8	1.8	1.9	50
52	1.6	1.7	1.7	1.8	1.7	1.9	1.4	1.5	1.5	1.6	1.6	1.7	52
54			1.5	1.5	1.5	1.6	1.2	1.3	1.3	1.4	1.3	1.5	54
56			1.3	1.3	1.3	1.4			1.1	1.2	1.1	1.3	56
58					1.1	1.2					1	1	58

Note: the capacity values in shade are determined by single line pull or boom strength.

Notes

Zhejiang Sany Equipment Co.,LTD

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Service hotline 400 887 8318
Complaints hotline 400 887 9318

— Gent information —

Reminder:
For safe and reliable operation of the diesel engines, please fill Grade IV machines with Grade IV diesel and urea solution conforming to related national standards. Please refer to the operating instructions and related standards for details.

Any change in the technical parameters and configuration due to advancement in technology may occur without prior notice. The machine in the figures may include auxiliary equipment. This brochure is for reference only, and goods in kind shall prevail.

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