



# SCC850A

## SANY Crawler Crane

### 85 Tons Lifting Capacity

Quality Changes the World



The parameters and diagrams in the brochure is only for reference, which is subject to further update in real machine.

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## Crawler Crane Series SCC850A

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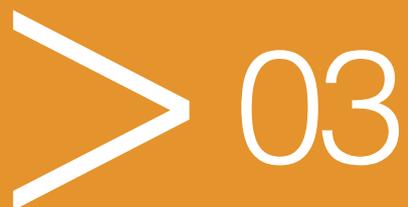


**SCC850A**  
**SANY CRAWLER CRANE**  
**85 TONS LIFTING CAPACITY**

QUALITY CHANGES THE WORLD

## Main Characteristics

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## Operator'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 operator's cab is bright with ample space, providing wider view and isolates noise in a better way. Multimode and multilevel adjustable suspension seat is mounted with minimum vibration and noise, 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 8.4 inch touch screen, programmable key switch and smarter human-machine interface. On the left console mounted the hydraulically controlled handle for swing /aux. load hoist functions, control buttons, emergent stop, radio and A/C panel; on the right console mounted cross control handles for main load hoist/boom hoist, and as well as ignition, engine throttle and winch speed buttons. The travel pedal and control levers are placed in front. The total layout is more human-friendly.

### CCTV System

- Cameras are optional to monitor in real time the wire rope on winches, rear counterweight and surrounding of machine.

## Upperworks



### Engine

- ISUZU 6HK1XKSC Diesel Engine
- Type: 6-cylinder in-line, direct injection, water-cooled, intercooler. Compliant with European off-way Tier III emission standard, and Chinese off-way Tier III emission standard.
- Displacement: 7.79L
- Rated power 212 Kw/2000rpm
- Max. output torque 1080N·m/1500rpm
- Starter device: 24V-5.0kW
- Battery: two 12V large battery in serial connection
- Fuel tank: 400L

### Electrical Control System

- SYIC-2 integrated control system independently developed by SANY 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, monitor, and the engine communicates through CAN Bus.

### Hydraulic System

- Main pump: adopt large piston pump with open displacement to provide oil for the machine actuator;
- Gear pump: dual gear pumps are used for swing, radiator and control circuit.
- Control: the main pump adopt the control of electrical proportionate positive flow; winch motor is piston motor of variable displacement. The operation components are two hydraulic control handles, and one dual travel pedal control valve to control each actuator in proportionate way.
- System max. pressure:  
Main load hoist, aux. load hoist, boom hoist winch and travel system: 32MPa  
Swing system: 20MPa  
Control system: 4.5MPa  
Hydraulic oil tank capacity: 460L

### Swing Mechanism

- Internal-gear swing drive can swing the upperworks by 360°.
- Swing lock: Swing lock is designed. 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: 0-2.5rpm.

### Main Load and Aux. Load 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, aux. load hoist	Rope speed of main/aux. load hoist winch	0~135m/min
	Wire rope diameter	Φ22mm
	Wire rope length of main/aux. load hoist	240m/150m
	Rated single line pull	8t

### 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	Rope speed of boom hoist winch	0~75m/min
	Wire rope diameter	Φ20mm
	Wire rope length of boom hoist	140m

### Counterweight

- Counterweight tray and blocks are piled up for easier assembly and transport.
- Rear counterweight: total 27.6t.
- Rear counterweight: tray 8.26t×1, left counterweight block 3t×2, right counterweight block 3t×2, left counterweight block 3.68t×1, and right counterweight block 3.68t×1.
- Carbody counterweight: 2t×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.
- Lower outrigger cylinders are optional.

### 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.

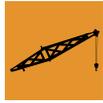
### Crawler Tensioning

- 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 800mm wide, and the total is 65pcs x 2.

## 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.

### Boom

- Lattice structure. The chord adopts high-strength structural tube and each section is connected through pins.
- Basic boom: 6m boom top + 6m boom base;
- Boom insert: 3m x 1, 6m x 1, 9m x 4;
- Boom length: 12m~57m.

### 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: 48m 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: 1.1m.

### Hook Block

- 80t hook block, five sheaves;
- 45t hook block, three sheaves;
- 15t hook block, one sheave;
- 9t ball hook.



## Safety Device

### Assembly Mode/Work Mode Switch

- In Assembly Mode, some safety protection devices are 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 Indicator (LMI)

- 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.
- Composition: display, angle sensor, force sensor.

### 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.

### Boom Hoist Drum Lock

- Boom hoist drum lock is designed to lock the winch action when it is not used, so as to prevent mis-operation. The boom hoist winch pawl can open and close along with the lever. When the lever comes back to neutral, the pawl will lock the drum automatically to make sure the boom stays safe while not working.

### 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 reaches the max. angle, 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



### 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.

### Warning Light

- Warning light will keep flashing once the machine is powered on, so as to warn the people around the machine.

### Swing Indicator Light

- The swing indicator light flashes during traveling or swing.

### Illumination 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 the real-time wind speed is displayed on the monitor in the cab.

### Electronic Level Gauge

- It displays the tipping angle of crane on the monitor in real time. The automatic warning will show up once it is over the set value.

### Function Lock Lever

- 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 Protection

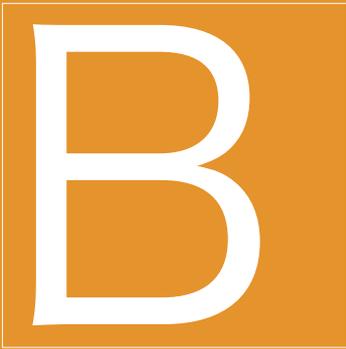
- The controller monitors the engine power to prevent engine getting stuck and stalling.

### 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.

### GPS Monitoring System

- Standard remote monitor: GPS positioning, GPRS data transfer, working status and statistics, operation data monitor and analysis, and remote diagnosis of failure.

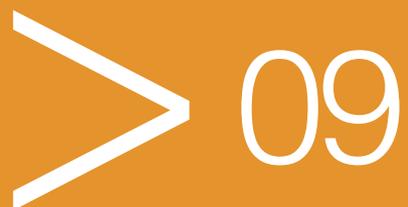


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## Technical Parameters

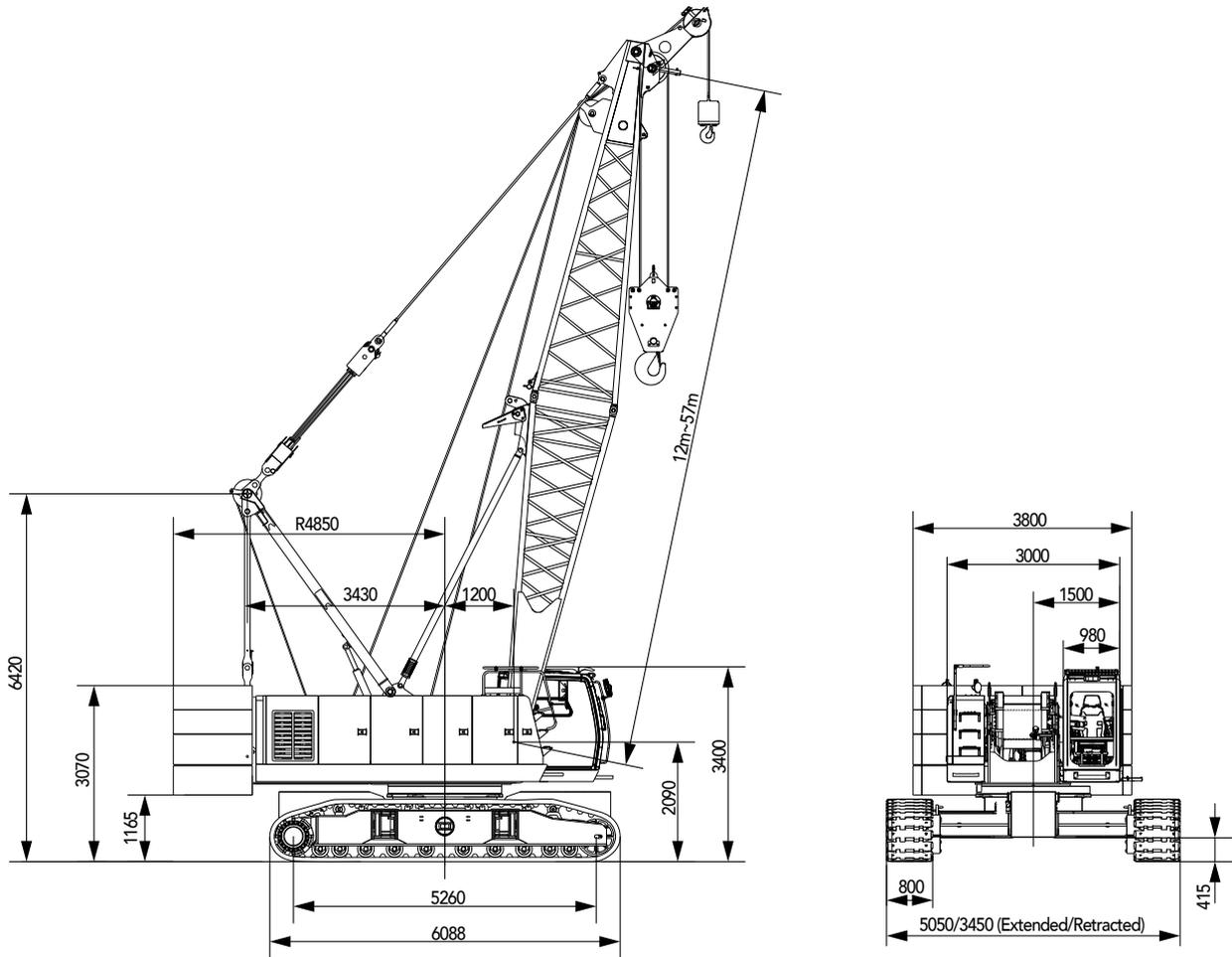
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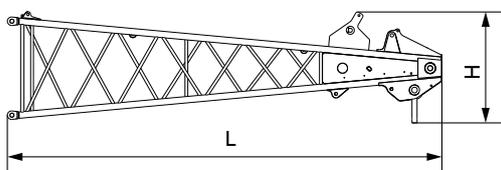
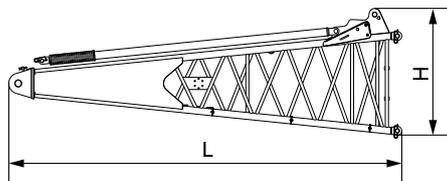
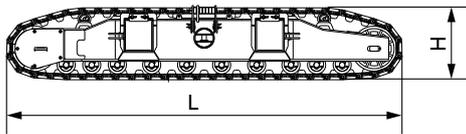
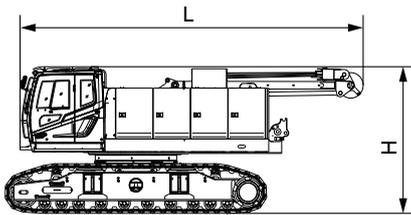
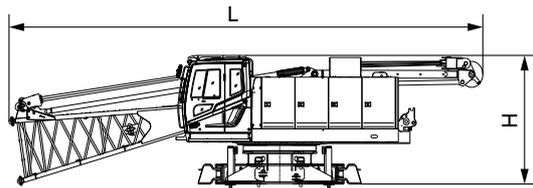
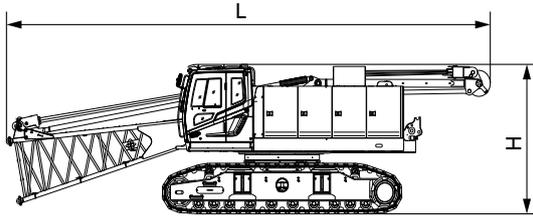
## Major Performance & Specifications

Major Performance & Specifications of SCC850A			
Performance Indicators		Unit	Parameter
Boom Configuration	Max. rated lifting capacity	t	85
	Max. lifting moment	t m	350
	Boom length	m	12~57
	Boom luffing angle	°	30~80
FJ	Max. rated lifting capacity	t	8
	Jib length	m	9~18
	Longest boom + longest jib	m	48+18
Speed	Rope speed of main/aux. winch (1st layer)	m/min	0~135
	Rope speed of boom hoist winch (3rd layer)	m/min	0~75
	Swing speed	rpm	0~2.5
	Travel speed	km/h	0~1.7
Wire rope	Main hoist wire rope: diameter × length	φ mm × m	22×240
	Aux. hoist wire rope: diameter × length	φ mm × m	22×150
	Single line pull of main/aux. hoist wire rope	t	8
Engine	Model/Displacement	\L	ISUZU 6HK1\7.79
	Rated power/revolution speed	kW/ rpm	212/2000
Transport	Weight of basic boom	t	75
	Rear counterweight	t	27.6
	Transport weight of basic machine (with crawler frame and boom base)	t	40
	Transport weight of basic machine (without crawler frame and boom base)	t	24.6
	Machine transport dimension (with crawlers and boom base) L×W×H	mm	12500×3450×3400
	Machine transport dimension (without crawlers and boom base)L×W×H	mm	8450×3000×3100
Other specifications	Average ground pressure (basic boom)	MPa	0.082
	Gradeability	%	30

## Outline Dimension



## Transport Dimension



### Basic Machine 1 (with boom base, crawlers) ×1

Length(L)	12.5m
Width(W)	3.45m
Height(H)	3.4m
Weight	40t

### Basic Machine 2 (with boom base) ×1

Length (L)	12.5m
Width (W)	3.0m
Height (H)	3.1m
Weight	24.6t

### Basic Machine 3 ×1

Length (L)	8.65m
Width (W)	3.45m
Height (H)	3.4m
Weight	38.4t

### Crawlers ×2

Length (L)	6.1m
Width (W)	1.1m
Height (H)	1.1m
Weight	7.7t

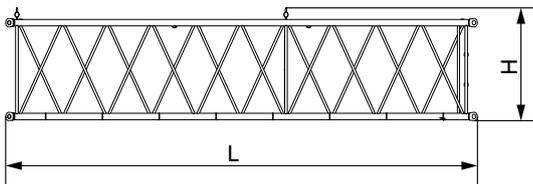
### Boom Base ×1

Length (L)	6.22m
Width (W)	1.51m
Height (H)	1.87m
Weight	1.6t

### Boom Top ×1

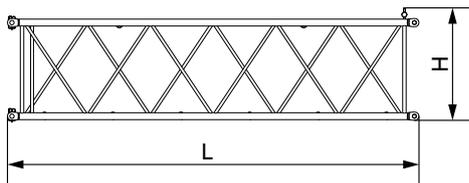
Length (L)	6.47 m
Width (W)	1.49m
Height (H)	1.66m
Weight	1.24t

## Transport Dimension



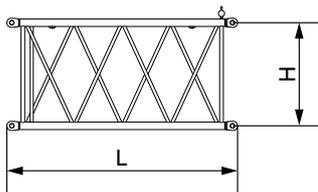
### 9m Boom Insert ×4

Length(L)	9.13 m
Width(W)	1.51m
Height(H)	1.56m
Weight	0.91t



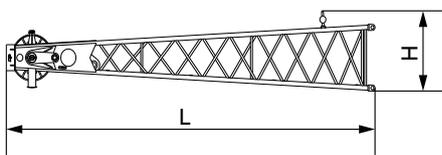
### 6m Boom Insert ×1

Length (L)	6.14 m
Width (W)	1.51m
Height (H)	1.56m
Weight	0.76t



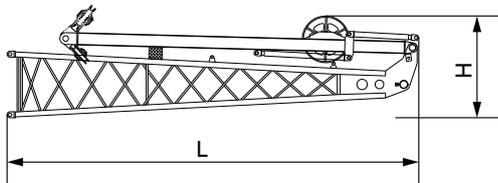
### 3m Boom Insert ×1

Length (L)	3.14 m
Width (W)	1.51m
Height (H)	1.56m
Weight	0.45t



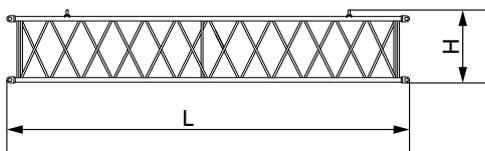
### Fixed Jib Top ×1

Length(L)	4.93m
Width(W)	0.87m
Height(H)	0.92m
Weight	0.31t



### Fixed Jib Base and Strut ×1

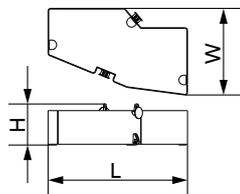
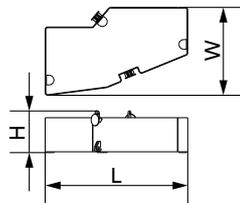
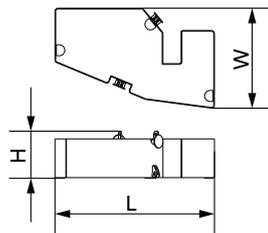
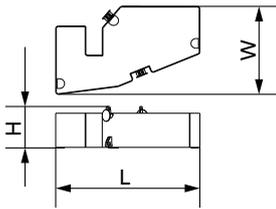
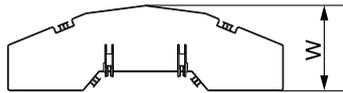
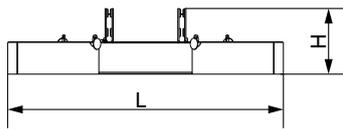
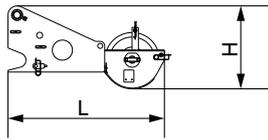
Length(L)	4.75 m
Width(W)	0.87m
Height(H)	1.18m
Weight	0.75t



### 4.5m Fixed Jib ×2

Length(L)	4.57m
Width(W)	0.87m
Height(H)	0.83m
Weight	0.24t

## Transport Dimension



### Extension Jib ×1

Length(L)	1.55m
Width(W)	0.96m
Height(H)	0.82m
Weight	0.30t

### Counterweight Tray ×1

Length (L)	3.8m
Width (W)	1.55m
Height (H)	1.05m
Weight	8.26t

### Left Counterweight Block 1 ×1

Length (L)	1.89 m
Width (W)	1.55m
Height (H)	0.65m
Weight	3.68t

### Right Counterweight Block 1 ×1

Length(L)	1.89 m
Width(W)	1.55m
Height(H)	0.65m
Weight	3.68t

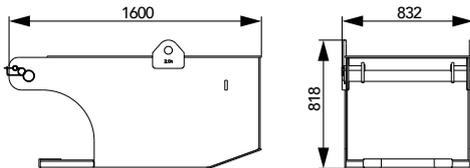
### Left Counterweight Block 2 ×2

Length(L)	1.89 m
Width(W)	1.55m
Height(H)	0.51m
Weight	3.0t

### Right Counterweight Block 2 ×2

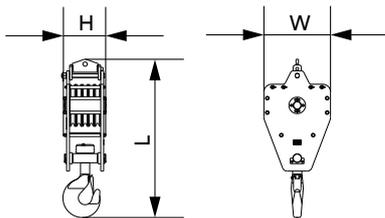
Length(L)	1.89 m
Width(W)	1.55m
Height(H)	0.51m
Weight	3.0t

## Transport Dimension



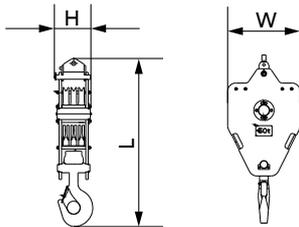
### Carbody Counterweigh ×2

Length(L)	1.6m
Width(W)	0.83m
Height(H)	0.82m
Weight	2t



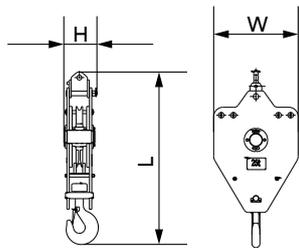
### 85T hook ×1

Length(L)	2.12m
Width(W)	0.85m
Height(H)	0.71m
Weight	1.44t



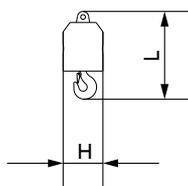
### 45T hook ×1

Length (L)	1.52 m
Width (W)	0.69m
Height (H)	0.37m
Weight	0.48t



### 15T hook ×1

Length (L)	1.34 m
Width (W)	0.6m
Height (H)	0.34m
Weight	0.28t



### 9T ball hook ×1

Length(L)	0.75m
Width(W)	0.37m
Height(H)	0.37m
Weight	0.26t

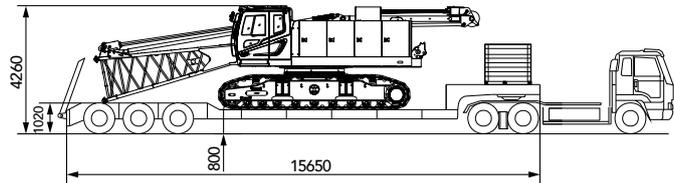
Note:

- 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.

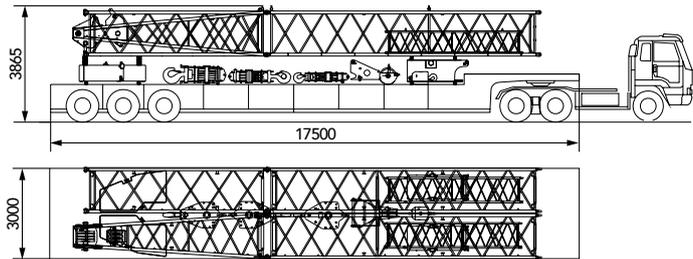
## Transport Plan

### Plan B: Transport with crawlers.

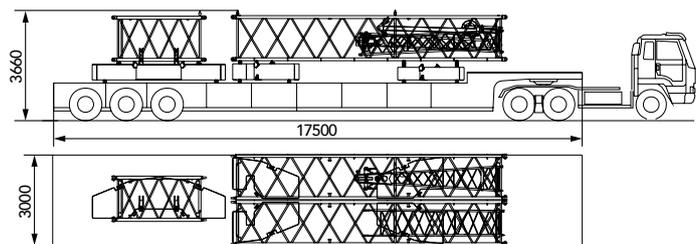
Trailer 1	
Part(s)	▪ Basic Machine
Weight	▪ 40t



Trailer 2	
Part(s)	<ul style="list-style-type: none"> <li>▪ 9m boom ×2</li> <li>▪ Boom top ×1</li> <li>▪ 6m boom×1</li> <li>▪ Extension jib x1</li> <li>▪ Carbody counterweight ×2</li> <li>▪ 4.5m fixed jib ×2</li> <li>▪ Left counterweight 2x1</li> <li>▪ Right counterweight 2x1</li> <li>▪ 80t hook ×1</li> <li>▪ 45t hook ×1</li> <li>▪ 15t hook ×1</li> <li>▪ 9t ball hook x1</li> </ul>
Weight	▪ 16.6t



Trailer 3	
Part(s)	<ul style="list-style-type: none"> <li>▪ 9m boom ×2</li> <li>▪ 3m boom ×1</li> <li>▪ Left counterweight 1x1</li> <li>▪ Right counterweight 1x1</li> <li>▪ Counterweight tray 1x1</li> <li>▪ Left counterweight 2x1</li> <li>▪ Right counterweight 2x1</li> <li>▪ Fixed jib base ×1</li> <li>▪ Fixed jib top ×1</li> </ul>
Weight	▪ 25t





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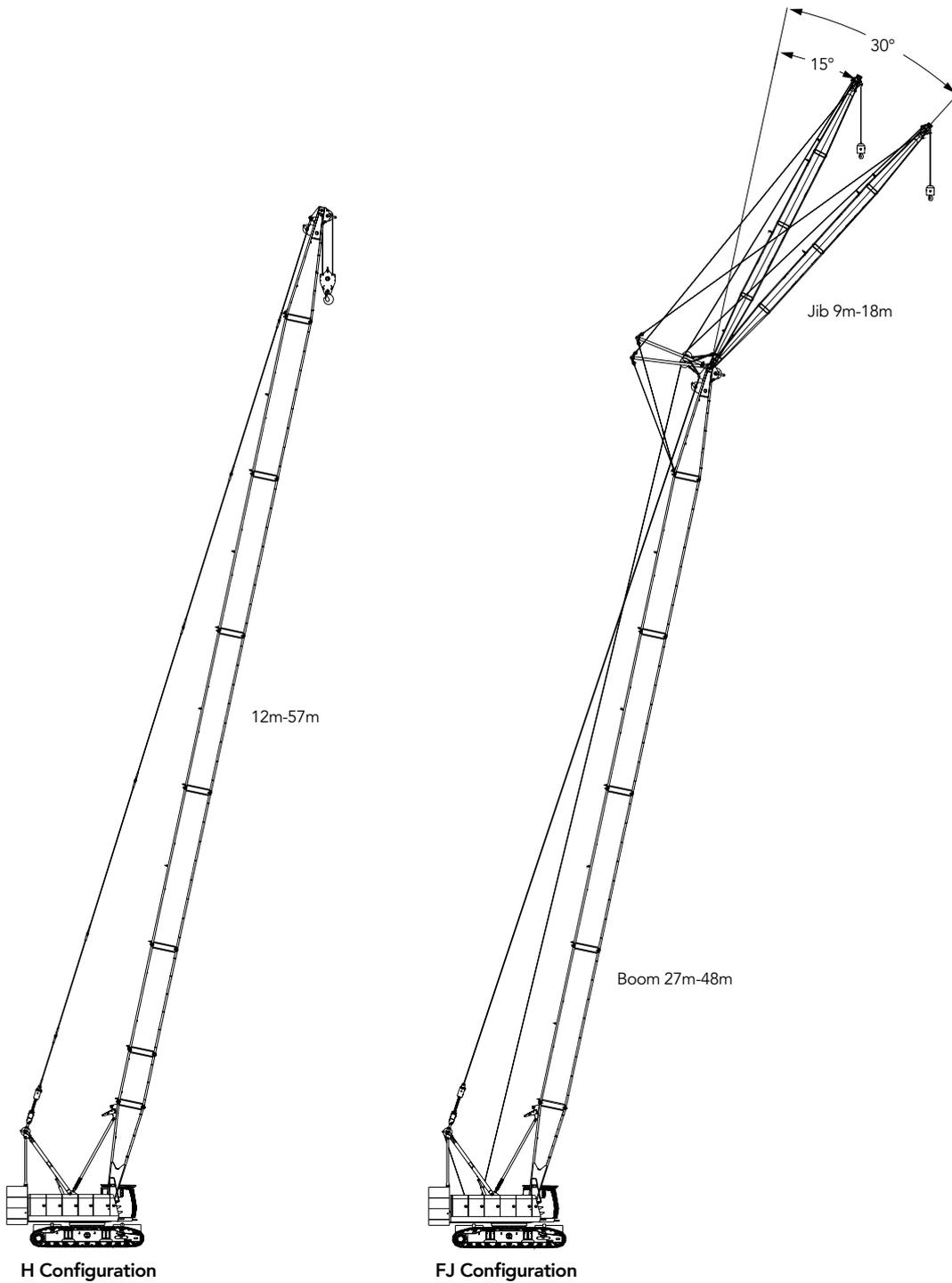
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## Boom Combination

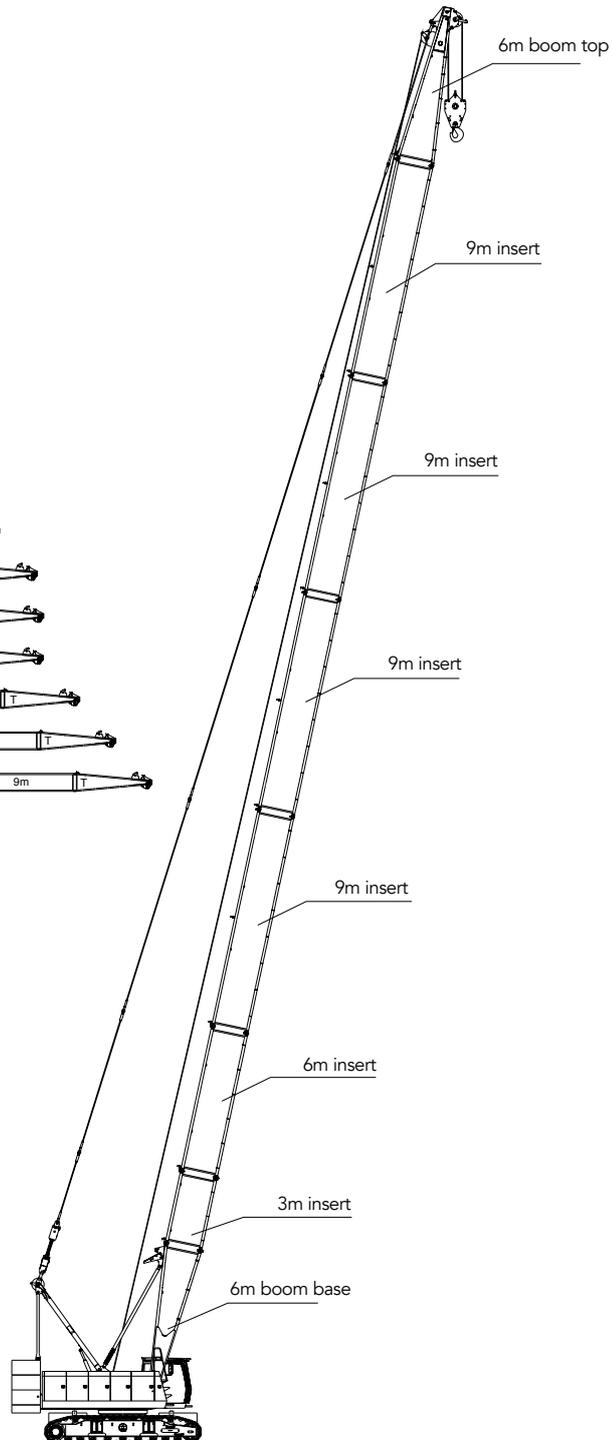
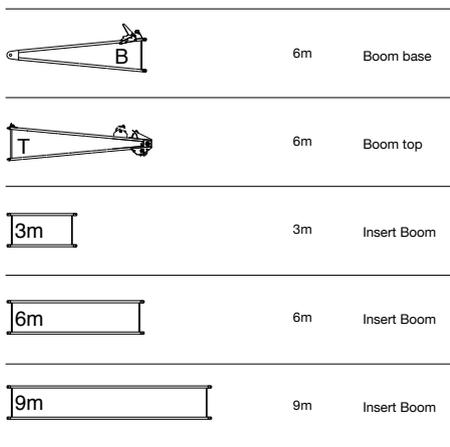
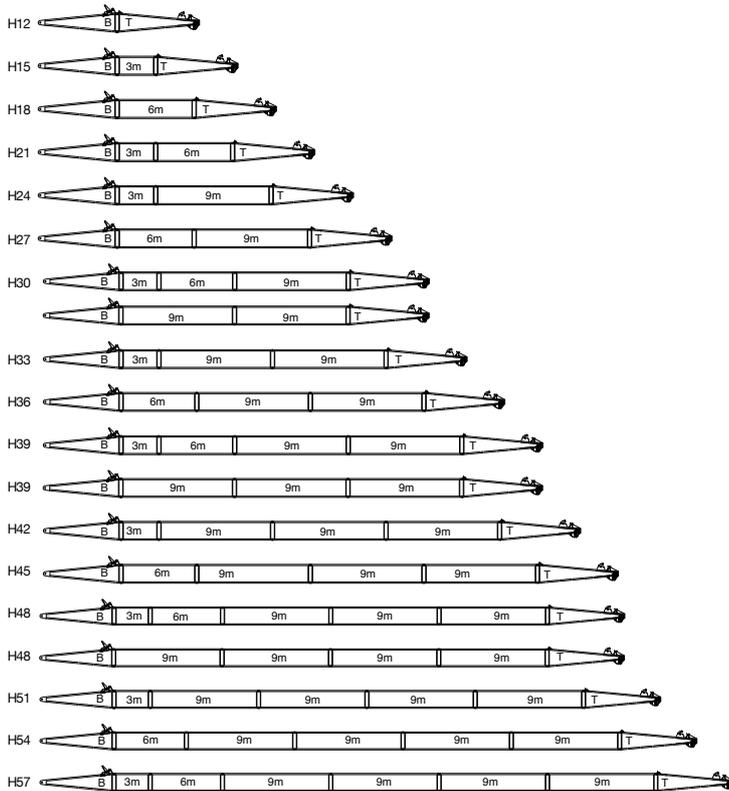
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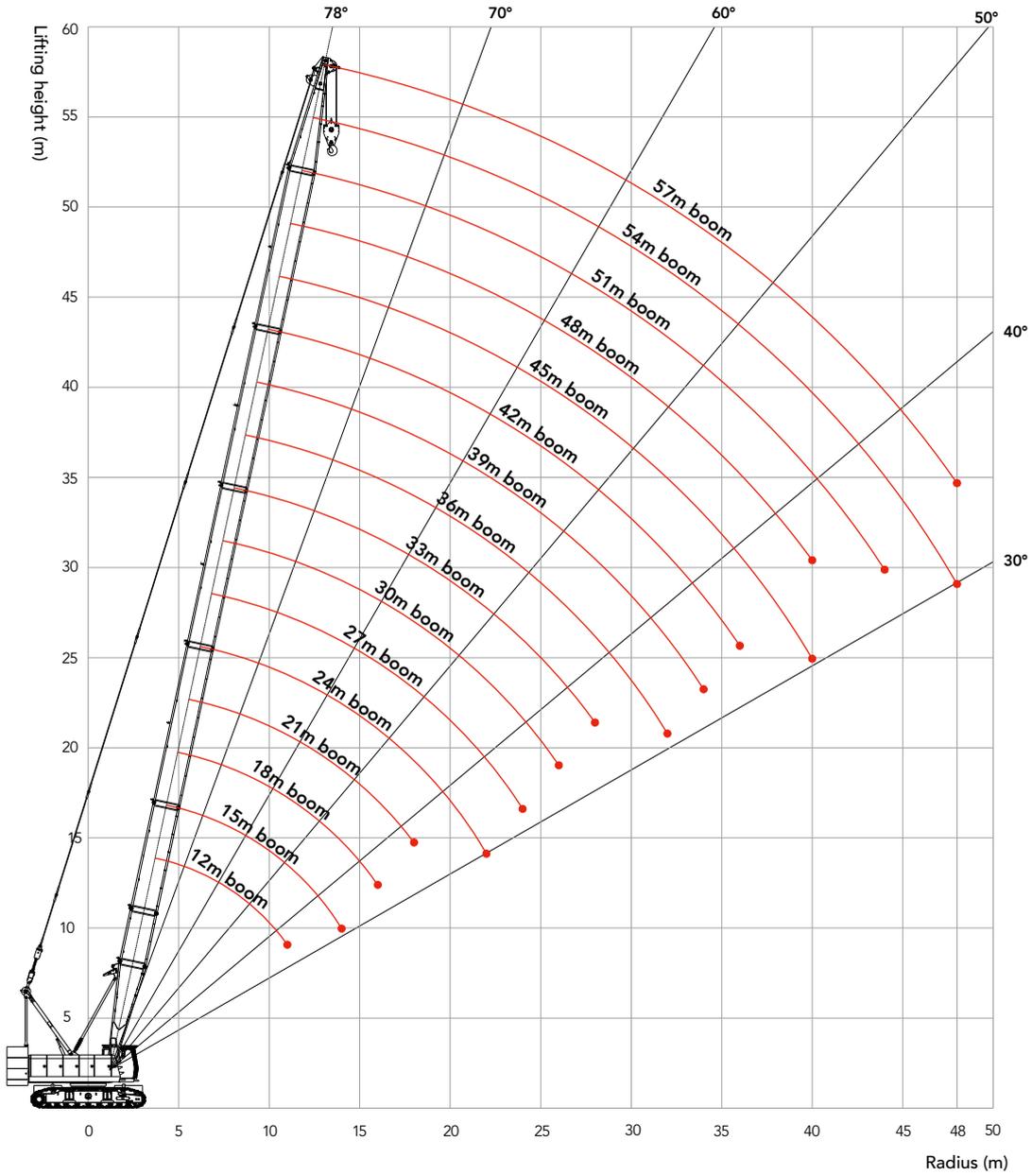
# Applications



## Boom Combination in H



# Working Radius in H Configuration



Unit: t

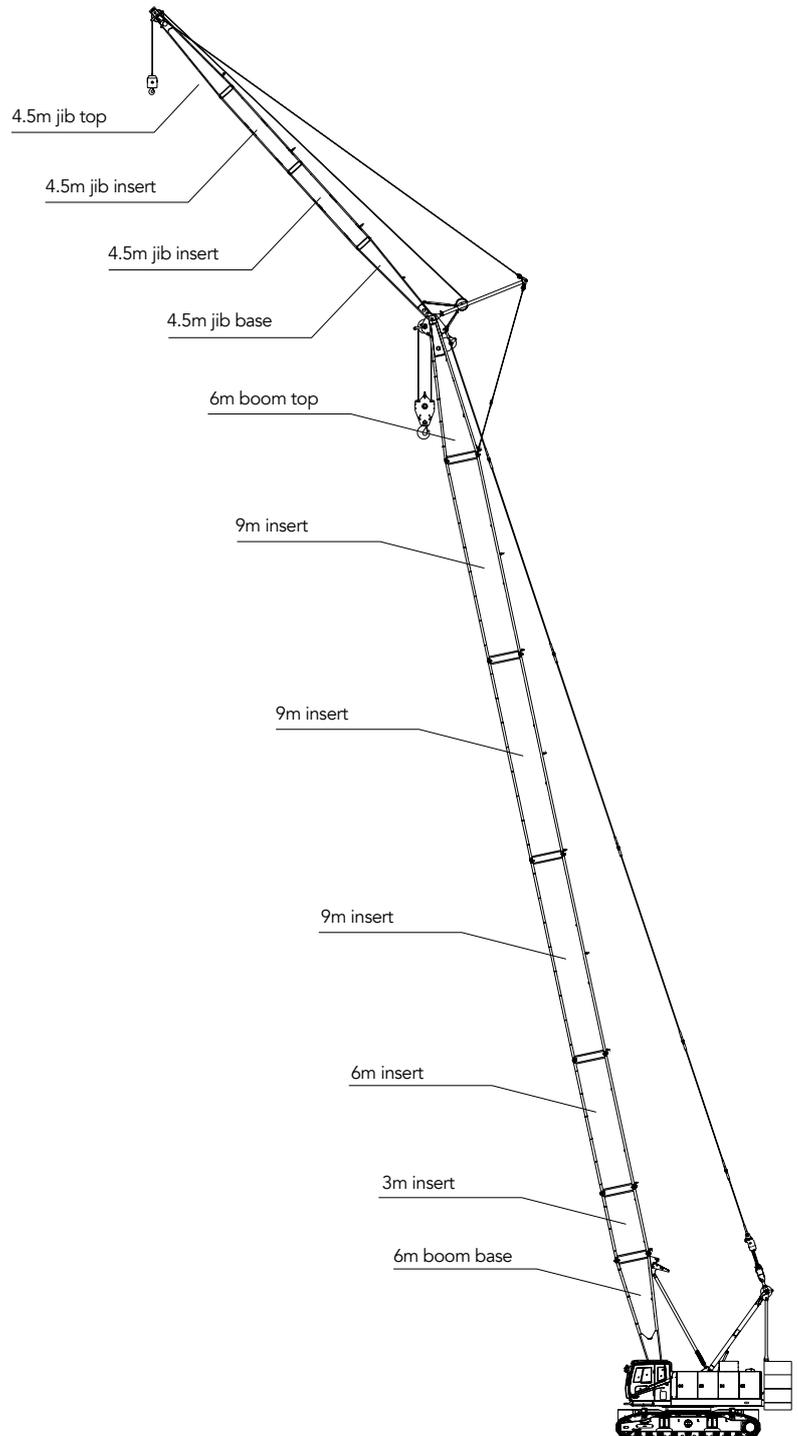
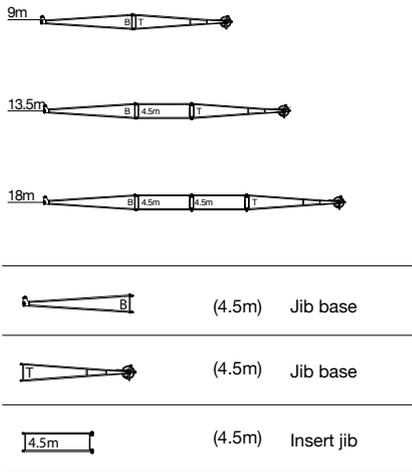
## Load Chart of H Configuration

SCC850A Crawler Crane –H Configuration 1/2										
R/BL (m)	Boom length 12m-57m			Rear Counterweight 27.6t		Carbody Counterweight 4t				R/BL (m)
	12	15	18	21	24	27	30	33		
4	85									4
5	70	68	62.8							5
6	53.9	53.4	52.4	51.8	46.8					6
7	42.8	42.5	42.2	41.9	41	40.9	38.1			7
8	35.5	35.2	35	34.8	34.4	34.1	33.8	33.6		8
9	30.2	30	29.8	29.6	29.3	29.1	29	28.1		9
10	26.3	26.2	25.9	25.7	25.5	25.4	25.2	25		10
11	23.3	23	22.9	22.7	22.5	22.4	22.2	22		11
12		20.6	20.5	20.4	20.3	20.2	20	19.7		12
14		16.9	16.8	16.7	16.5	16.4	16.3	16.2		14
16			14.2	14.1	13.9	13.8	13.7	13.5		16
18				12.2	12	11.9	11.8	11.6		18
20					10.5	10.4	10.3	10.1		20
22					9.3	9.1	9.1	8.9		22
24						8.2	8.1	7.9		24
26							7.2	7.1		26
28								6.4		28
30										30
32										32
34										34
36										36
38										38
40										40
44										44
48										48

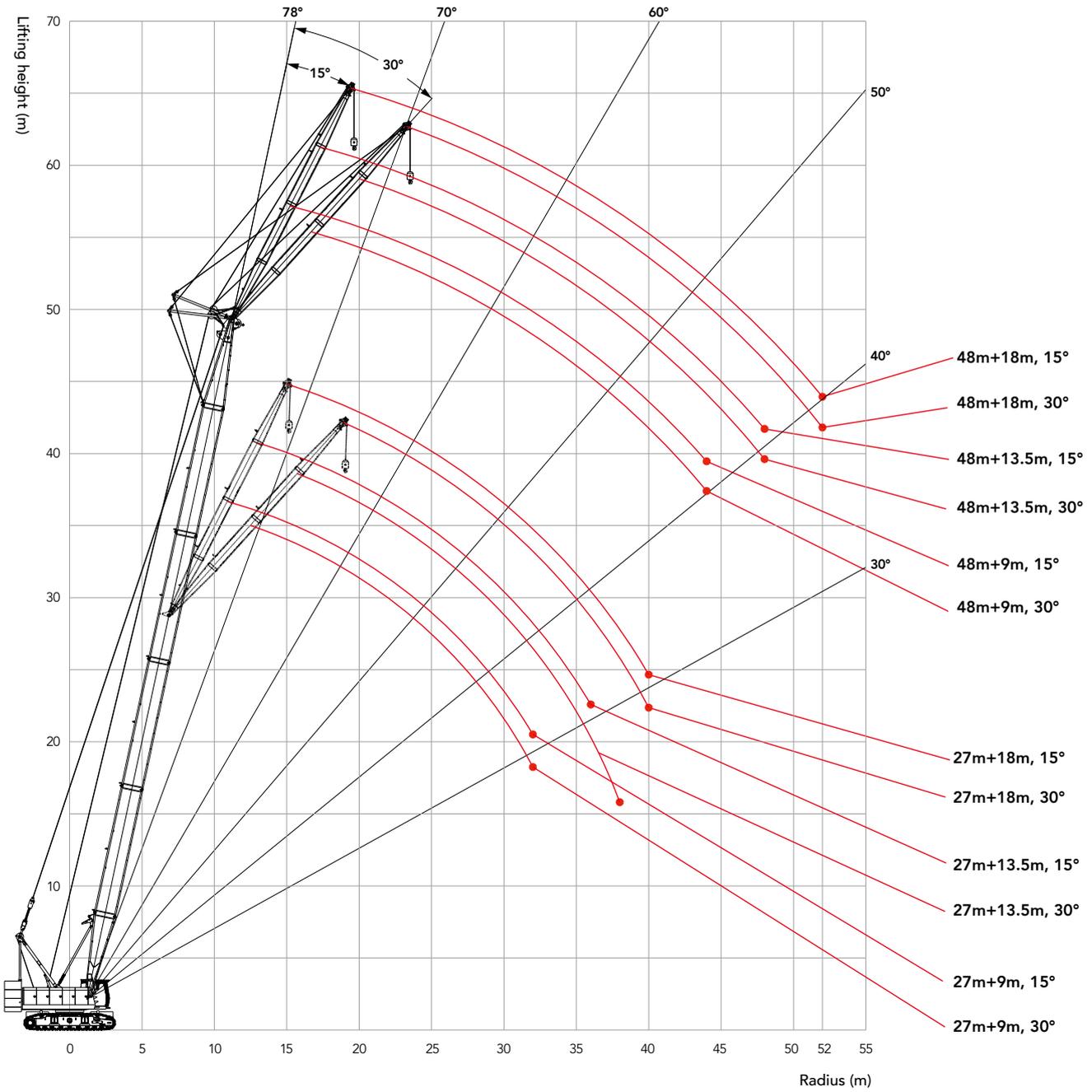
## Load Chart of H Configuration

SCC850A Crawler Crane -H Configuration 2/2											
R/BL (m)	Boom length 12m-57m					Rear Counterweight 27.6t			Carbody Counterweight 4t		R/BL (m)
	36	39	42	45	48	51	54	57			
4										4	
5										5	
6										6	
7										7	
8	30.8									8	
9	27.5	26.8	25.8							9	
10	24.4	23.9	23.3	22.8	21.8					10	
11	21.9	21.5	21	20.5	19.5	19.3				11	
12	19.5	19.4	19	18.7	18.5	17.9	16.8	15.8		12	
14	16	15.9	15.7	15.5	15.3	14.9	14.5	14.2		14	
16	13.4	13.3	13.1	13	12.9	12.7	12.4	12.1		16	
18	11.5	11.4	11.2	11.1	11	10.8	10.7	10.4		18	
20	10	9.9	9.7	9.6	9.5	9.3	9.2	9.1		20	
22	8.8	8.7	8.5	8.4	8.3	8.1	8	7.9		22	
24	7.8	7.7	7.5	7.4	7.3	7.2	7	6.9		24	
26	7	6.9	6.7	6.6	6.5	6.3	6.2	6.1		26	
28	6.3	6.2	6	5.9	5.8	5.7	5.5	5.4		28	
30	5.7	5.6	5.4	5.3	5.2	5.1	4.9	4.8		30	
32	5.1	5.1	4.9	4.8	4.7	4.5	4.4	4.3		32	
34		4.6	4.4	4.3	4.3	4.1	4	3.8		34	
36			4	3.9	3.8	3.7	3.6	3.4		36	
38				3.6	3.5	3.3	3.2	3.1		38	
40				3.2	3.2	3	2.9	2.7		40	
44						2.4	2.3	2.2		44	
48							1.8	1.6		48	

## Boom Combination in FJ



## Working Radius in FJ Configuration



Unit: t

## Load Chart of FJ Configuration

SCC850A Crawler Crane – FJ 1/4													
Rear Counterweight 27.6, Carbody Counterweight 4t													
R/BL (m) Jib Length (m) Boom to Jib Angle	27						30						R/BL (m) Jib Length (m) Boom to Jib Angle
	9		13.5		18		9		13.5		18		
	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	
12	8						8						12
14	8	8	8				8	8	8				14
16	8	8	8	7	7.8		8	8	8		8		16
18	8	8	8	6.6	7.1		8	8	8	6.7	7.3		18
20	8	8	7.9	6.2	6.5	4.8	8	8	8	6.4	6.8	4.9	20
22	8	8	7.3	5.9	6	4.5	8	8	7.7	6	6.3	4.6	22
24	7.4	7.5	6.9	5.6	5.6	4.3	7.3	7.4	7.2	5.8	5.9	4.4	24
26	6.6	6.7	6.4	5.4	5.3	4.1	6.5	6.6	6.6	5.5	5.5	4.2	26
28	6	6	6.1	5.2	4.9	3.9	5.8	5.9	5.9	5.3	5.2	4	28
30	5.4	5.4	5.5	5	4.7	3.7	5.2	5.3	5.4	5.1	4.9	3.8	30
32	4.9	4.9	5	4.8	4.4	3.6	4.7	4.8	4.9	5	4.6	3.7	32
34			4.6	4.6	4.2	3.4	4.3	4.3	4.4	4.5	4.4	3.6	34
36			4.2	4.2	4	3.3		3.9	4	4.1	4.1	3.4	36
38				3.8	3.9	3.2			3.7	3.7	3.8	3.3	38
40					3.5	3.1			3.3	3.4	3.5	3.2	40
44											2.8	2.9	44

Note: Gray shaded values are determined by strength; white

## Load Chart of FJ Configuration

SCC850A Crawler Crane – FJ 2/4													
Rear Counterweight 27.6, Carbody Counterweight 4t													
R/BL (m) Jib Length (m) Boom to Jib Angle	9		33		18		9		36		18		R/BL (m) Jib Length (m) Boom to Jib Angle
	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	
14	8	8	8				8						14
16	8	8	8		8		8	8	8				16
18	8	8	8	6.8	7.5		8	8	8	6.9	7.8		18
20	8	8	8	6.5	7	5	8	8	8	6.6	7.2		20
22	8	8	8	6.2	6.5	4.7	8	8	8	6.3	6.7	4.8	22
24	7.2	7.3	7.3	5.9	6	4.5	7.1	7.2	7.2	6	6.3	4.5	24
26	6.4	6.5	6.5	5.7	5.7	4.3	6.3	6.4	6.4	5.8	5.9	4.3	26
28	5.7	5.8	5.8	5.5	5.4	4.1	5.6	5.7	5.7	5.6	5.5	4.2	28
30	5.1	5.2	5.3	5.3	5.1	3.9	5	5.1	5.2	5.3	5.1	4	30
32	4.6	4.7	4.8	4.9	4.8	3.8	4.5	4.6	4.7	4.8	4.7	3.9	32
34	4.2	4.3	4.3	4.4	4.4	3.6	4.1	4.2	4.2	4.3	4.3	3.7	34
36	3.8	3.8	3.9	4	4	3.5	3.7	3.8	3.8	3.9	3.9	3.6	36
38	3.5	3.5	3.6	3.6	3.7	3.4	3.4	3.4	3.5	3.6	3.6	3.5	38
40			3.2	3.3	3.4	3.3	3	3	3.1	3.2	3.3	3.4	40
44					2.8	2.9			2.6	2.6	2.7	2.8	44
48											2.2	2.3	48

Note: Gray shaded values are determined by strength; white

Unit: t

## Load Chart of FJ Configuration

SCC850A Crawler Crane – FJ 3/4													
Rear Counterweight 27.6, Carbody Counterweight 4t													
R/BL (m) Jib Length (m) Boom to Jib Angle	39						42						R/BL (m) Jib Length (m) Boom to Jib Angle
	18		9		13.5		18		13.5		18		
	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	
14	8						8						14
16	8	8	8				8	8	8				16
18	8	8	8		8		8	8	8		8		18
20	8	8	8	6.7	7.4		8	8	8	6.8	7.6		20
22	7.9	8	8	6.4	6.9	4.9	7.8	8	7.8	6.5	7	5	22
24	6.9	7.1	7.1	6.1	6.4	4.7	6.8	7	7	6.3	6.3	4.7	24
26	6.1	6.3	6.3	5.9	5.9	4.5	6	6.2	6.2	6	5.7	4.5	26
28	5.5	5.6	5.6	5.7	5.4	4.3	5.4	5.5	5.5	5.7	5.3	4.3	28
30	4.9	5	5	5.2	5	4.1	4.8	4.9	4.9	5.1	4.9	4.2	30
32	4.4	4.5	4.5	4.7	4.6	4	4.3	4.4	4.4	4.6	4.5	4	32
34	4	4	4.1	4.2	4.2	3.8	3.8	3.9	4	4.1	4.1	3.9	34
36	3.6	3.6	3.7	3.8	3.8	3.7	3.4	3.5	3.6	3.7	3.7	3.8	36
38	3.2	3.2	3.3	3.4	3.4	3.6	3.1	3.1	3.2	3.3	3.3	3.5	38
40	2.8	2.9	3	3.1	3.1	3.3	2.7	2.8	2.9	3	3	3.2	40
44			2.4	2.5	2.5	2.7	2.1	2.2	2.3	2.4	2.4	2.6	44
48			1.9	1.9	2	2.1			1.8	1.8	1.9	2	48
52					1.6	1.7					1.5	1.6	52

Note: Gray shaded values are determined by strength; white

## Load Chart of FJ Configuration

SCC850A Crawler Crane – FJ 4/4													
Rear Counterweight 27.6, Carbody Counterweight 4t													
R/BL (m) Jib Length (m) Boom to Jib Angle	45						48						R/BL (m) Jib Length (m) Boom to Jib Angle
	9		13.5		18		9		13.5		18		
	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	15°	30°	
16	8						8						16
18	8	8	8				8	8	8				18
20	8	8	8	7	7.5		8	8	8	7	7.3		20
22	7.6	7.9	7.7	6.6	6.9		7.6	7.8	7.6	6.7	6.7		22
24	6.7	6.9	6.9	6.4	6.2	4.8	6.6	6.8	6.8	6.5	6.1	4.8	24
26	5.9	6.1	6.1	6.2	5.6	4.6	5.8	6	6	6	5.5	4.7	26
28	5.2	5.4	5.4	5.6	5.2	4.4	5.2	5.3	5.3	5.5	5.1	4.5	28
30	4.7	4.8	4.8	5	4.8	4.3	4.6	4.8	4.7	5	4.7	4.3	30
32	4.2	4.3	4.3	4.5	4.4	4.1	4.1	4.2	4.2	4.4	4.3	4.1	32
34	3.7	3.8	3.9	4	4	3.9	3.6	3.8	3.8	4	3.9	3.8	34
36	3.3	3.4	3.4	3.6	3.6	3.6	3.2	3.3	3.4	3.6	3.5	3.6	36
38	2.9	3	3.1	3.2	3.2	3.4	2.9	3	3	3.2	3.1	3.3	38
40	2.6	2.7	2.7	2.9	2.9	3.1	2.5	2.6	2.7	2.8	2.8	3	40
44	2	2.1	2.2	2.3	2.3	2.5	1.9	2	2.1	2.2	2.2	2.4	44
48	1.5	1.6	1.7	1.7	1.8	1.9	1.5	1.5	1.6	1.7	1.7	1.9	48
52			1.3	1.3	1.4	1.5			1.2	1.2	1.3	1.4	52

Note: Gray shaded values are determined by strength; white





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— Agent information —

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