# SCC900HD

## Base Construction Crawler Crane
## 90 Tons Lifting Capacity

Quality Changes the World


**Max. lifting capacity：90t**
**Max. boom length：55m**

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

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## Base Construction Crawler Crane

# SCC900HD

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# SCC900HD
# BASE CONSTRUCTION CRAWLER CRANE
# 90 TONS LIFTING CAPACITY

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## Major Specifications



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# Product Specification

## Engine

- Model: Cummins QSL9-C325;
- Type: 4 stroke, water-cooled, vertical in-line 6, direct injection, turbo-charger, intercooler;
- Displacement: 8.9L;
- Rated power: 242kW/2100rpm;
- Max. Torque: 1424N·m/1500rpm ;
- Cooling System: Water-cooled;
- Starter: 24V-7.8kW;
- Radiator: fin type core in aluminum;
- Air cleaner: Dry type with replaceable paper element;
- Throttle: Grip type hand throttle, electrically controlled;
- Fuel filter: Replaceable paper element;
- Batteries: Two 12V×180Ah capacity batteries, connected in series;
- Emission standard:meet China Off-way Tier III emission standard;
- Fuel tank capacity: 400L

## Hydraulic System

- Two Kawasaki piston pump in series;
- Control: Open-circuit system with full-flow hydraulic control system;
- Cooling: Multi-stage cooling to make sure hydraulic system maintains optimum temperature at heavy load;
- Max. pressure of system: 32 Mpa;
- Swing system: 20 MPa;
- Control system: 5 MPa;
- Hydraulic Tank Capacity: 450L.

## Electrical System

- SANY SYIC-II integrated control system is adopted with high integration, precise operation and reliable quality;
- Control system consists of power system, engine, main control system, LMI system, assisting system and monitoring system;
- CAN BUS is used for data communication between controller, monitor (of LMI and Remote Controller Terminal) and the engine;
- Monitor: the working parameters and status are shown on the monitor, such as the engine speed, fuel volume, engine oil pressure, servo pressure, wind speed, engine working hours, lifting conditions and boom angle.

## Load Hoist System

- The main and aux. load hoist system are equipped with free fall winches of larger single fall, adopting new free fall control system, and reducer of single line pull up to 25t are available.

| | | |
|---|---|---|
| Main Hoist Winch | Drum Pitch Diameter | 648mm |
| | Rope speed on the 3rd layer | 0-120m/min |
| | Wire rope diameter | 28mm |
| | Wire rope working length | 200m |
| | Max. single line pull | 25t |
| | Rated single line pull | 13.5t |

| | | |
|---|---|---|
| Aux. Hoist Winch | Drum Pitch Diameter | 648mm |
| | Rope speed on the 3rd layer | 0-120m/min |
| | Wire rope diameter | 28mm |
| | Wire rope working length | 130m |
| | Max. single line pull | 25t |
| | Rated single line pull | 13.5t |

# Product Specification

## Boom Hoist System

- It is powered by a hydraulic motor through reducer.

| | | |
|---|---|---|
| Boom Hoist Winch | Drum Pitch Diameter | 420mm |
| | Rope speed on the outermost layer | 0-59m/min |
| | Wire rope diameter | 20mm |
| | Wire rope working length | 140m |

## Swing Mechanism

- Swing unit is powered by hydraulic motor driving reducer to swing 360° rotation;
- Swing parking brake: normally-closed, embedded, wet, spring-loaded disc brake; braking with spring force and release with oil pressure;
- Swing bearing: Single-row ball bearing;
- Swing lock: Lock devices on four position are designed to prevent swing backlash during traveling or transport. EPAD switch is used to control locking/unlocking of swing pin cylinder.
- Swing Speed: 0-4rpm.

## Upperworks

- Torsion-free precision machined high-strength welded structure. All components are located in optimum and easier for maintenance and service. Engine noise is low;
- Counterweight: 30.3 ton.

## Cab and Control

- Full vision safety glass with rear-view mirror is designed;
- Armrest control panel can be adjusted with the operator's seat and provide comfortable experience, which is more ergonomically;
- Cab configuration: 10.4-inch touch screen, programmable smart buttons and handles with vibration available, and man-machine interaction interface perfectly improved.

## Lowerworks

- Crawler drive: Independent drive is built into each crawler side frame, driven by hydraulic motor in reducer to realize straight walking and turning;
- Crawler telescoping: telescoping cylinder is used to expand and retract crawlers;
- Track tension: Jack is used to push guide wheel and shims are added to adjust the tension;
- Track rollers: maintenance-free roller;
- Shoe: 850 mm wide each crawler;
- Max. gradeability: 30 %.

## Weight

- Include upper and lower machine, 30.3t rear counterweight, 6.4t undercarriage weight, and basic boom, hook, and other accessories;
- Basic Boom Weight: 90t;
- Ground pressure: 0.085MPa.

## Boom

- Boom: welded lattice structure with high-strength tubes;
- Pendant cable: quick-connecting hitches for pendant cables to facilitate assembly.

## Boom Length

| | Shortest | Longest |
|---|---|---|
| Boom | 13m | 55m |

# Safety Device

### Assembly/Work Mode Switch

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

### Emergency 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.

### Over-hoist Protection of the Main/ Auxiliary Hooks

- It 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 is activated, 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 comprises 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 shows the alarm on the instrument panel, automatically cutting off the winch action.

### Function Lock

- If the function lock lever 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

- The boom hoist winch is electrically locked. Press the EPAD winch locking switch before operation, so as to prevent any accidental hitting, making sure the winch parked safely at non-working 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 LMI 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.

# Safety Device

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

### 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. When the actual load reaches 102% of rated load, the system will automatically cut off the crane operation in dangerous trend.

### 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
- Set on the left front of the cab and on the handrail at the front of right sheet metal, so as to monitor the rear part of machine.

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

### Anemometer
- It is mounted on the top of boom/jib to monitor the wind speed and send the data back to be displayed on the monitor in the cab.

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# SCC900HD
# BASE CONSTRUCTION CRAWLER CRANE
# 90 TONS LIFTING CAPACITY

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## Technical Parameters



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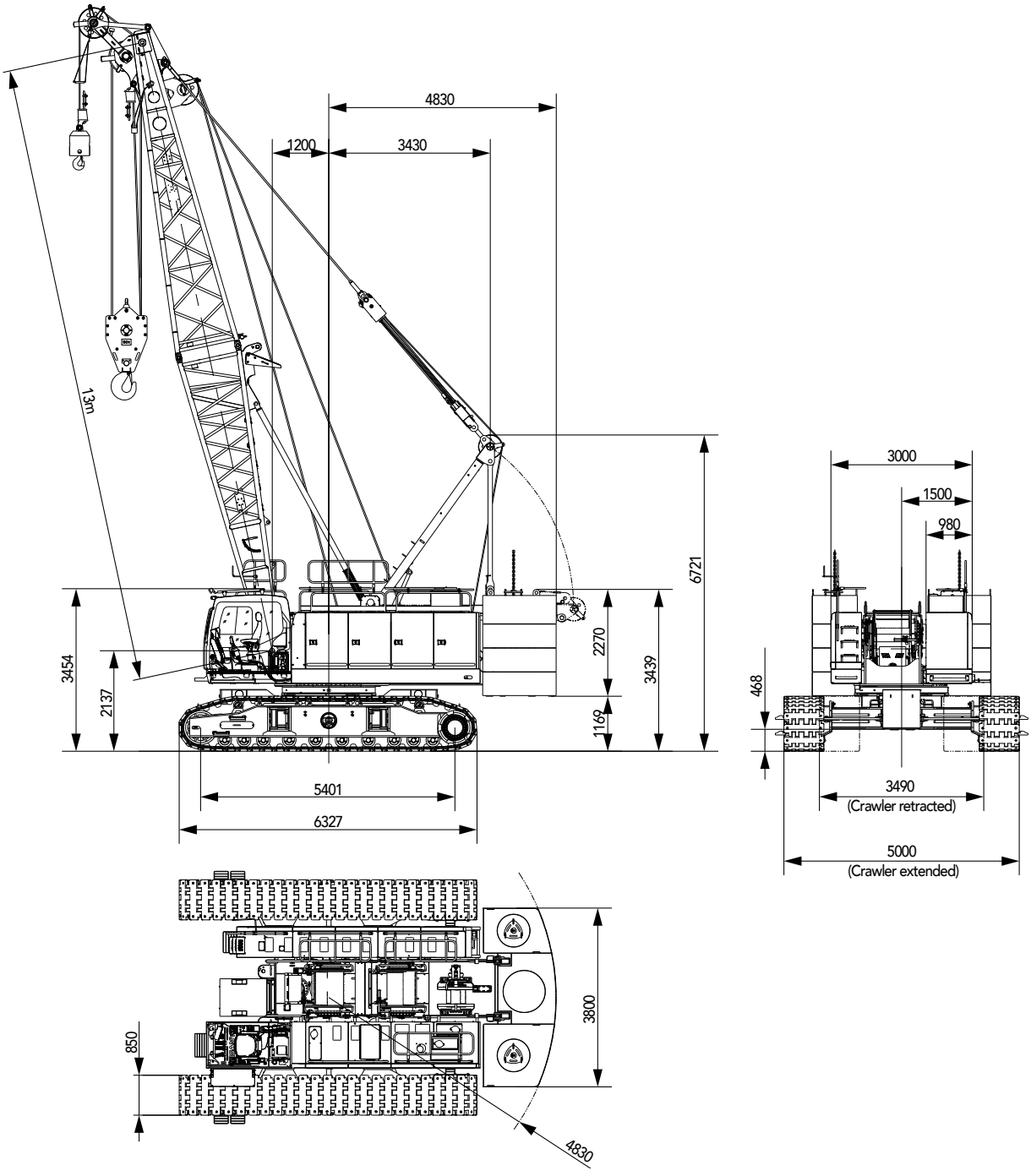
# Major Performance & Specifications

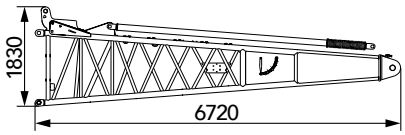
| Major Performance & Specifications of SCC900HD | | | |
|---|---|---|---|
| Performance Indicators | | Unit | Parameter |
| Boom Configuration | Max. rated lifting capacity | t | 90 |
| | Max. lifting moment | t·m | 365 |
| | Boom length | m | 13~55 |
| | Boom luffing angle | ° | 30~80 |
| Speed | Rope speed of main/aux. load hoist winch (3rd layer) | m/min | 120 |
| | Rope speed of boom hoist winch (3rd layer) | m/min | 59 |
| | Swing speed | rpm | 4 |
| | Travel speed | km/h | 1.8/0.9 |
| Wire rope | Main and aux. hoist wire rope: diameter × length | mm | 28 |
| | Single line pull of main/aux. load hoist wire rope | t | 13.5 |
| Engine | Model | - | QSL9-C325 |
| | Rated power/revolution speed | kW/ rpm | 242/2100 |
| Transport | Weight of machine with basic boom | t | 90 |
| | Rear counterweight | t | 30.3 |
| | Undercarriage counterweight | t | 3.2×2 |
| | Transport weight of basic machine (with crawler frames and boom base) | t | 48.1 |
| | Transport weight of basic machine (without crawlers and boom base) | t | 28.5 |
| | Machine transport dimension (with crawlers and boom base) L×W×H | mm | 13250×3490×3405 |
| | Machine transport dimension (without crawlers and boom base) L×W×H | mm | 8300×3000×2960 |
| Other specifications | Average ground pressure (basic boom) | MPa | 0.085 |
| | Gradeability | % | 30 |

Unit: mm

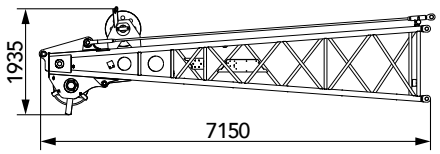
## Outline Dimension



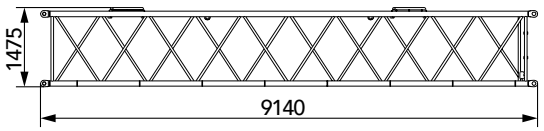
# Transport Dimension



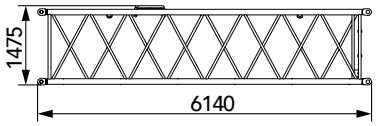

| Boom base | ×1 |
|---|---|
| Length (L) | 6720mm |
| Width (W) | 1780mm |
| Height (H) | 1830mm |
| Weight | 1840kg |



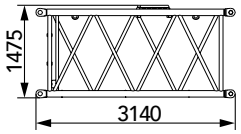

| Boom top | ×1 |
|---|---|
| Length (L) | 7150mm |
| Width (W) | 1490mm |
| Height (H) | 1935mm |
| Weight | 1785kg |



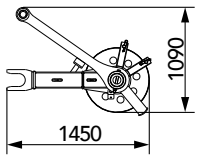

| 9m boom | ×3 |
|---|---|
| Length (L) | 9140mm |
| Width (W) | 1510mm |
| Height (H) | 1475mm |
| Weight | 1015kg |




| 6m boom | ×2 |
|---|---|
| Length (L) | 6140mm |
| Width (W) | 1510mm |
| Height (H) | 1475mm |
| Weight | 750kg |

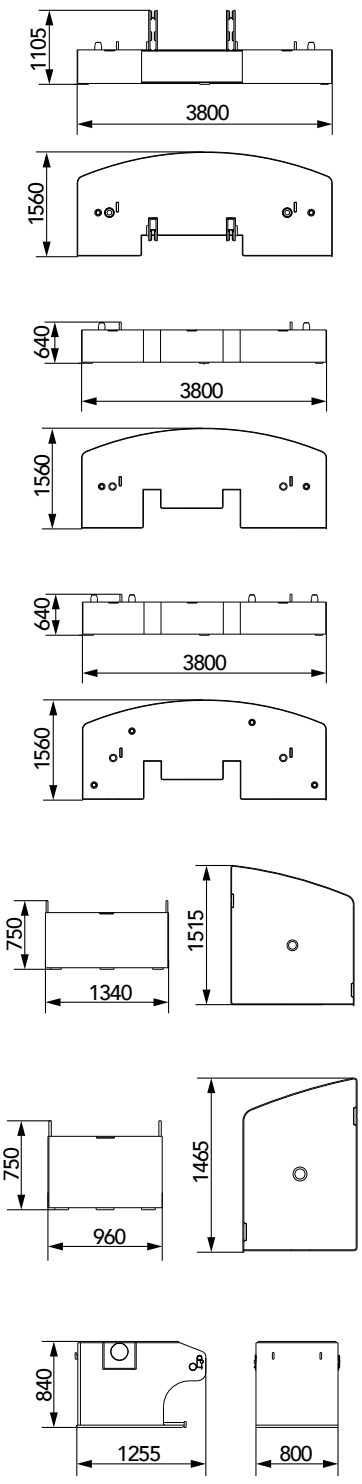



| 3m boom | ×1 |
|---|---|
| Length (L) | 3140mm |
| Width (W) | 1510mm |
| Height (H) | 1475mm |
| Weight | 485kg |




| Extension jib | ×1 |
|---|---|
| Length (L) | 1450mm |
| Width (W) | 855mm |
| Height (H) | 1090mm |
| Weight | 345kg |

## Transport Dimension




| Counterweight tray | ×1 |
|---|---|
| Length (L) | 3800mm |
| Width (W) | 1560mm |
| Height (H) | 1105mm |
| Weight | 8315kg |

| Counterweight block I | ×1 |
|---|---|
| Length (L) | 3800mm |
| Width (W) | 1560mm |
| Height (H) | 640mm |
| Weight | 7950kg |

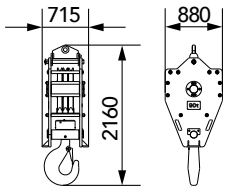
| Counterweight block II | ×1 |
|---|---|
| Length (L) | 3800mm |
| Width (W) | 1560mm |
| Height (H) | 640mm |
| Weight | 7955kg |

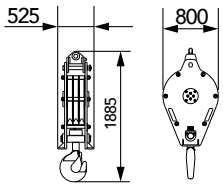
| Left counterweight | ×1 |
|---|---|
| Length (L) | 1340mm |
| Width (W) | 1515mm |
| Height (H) | 750mm |
| Weight | 3605kg |

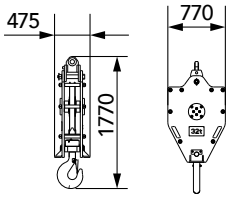
| Right counterweight | ×1 |
|---|---|
| Length (L) | 960mm |
| Width (W) | 1465mm |
| Height (H) | 750mm |
| Weight | 2530kg |

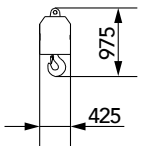
| Carbody counterweight | ×2 |
|---|---|
| Length (L) | 1255mm |
| Width (W) | 800mm |
| Height (H) | 840mm |
| Weight | 3200kg |

# Transport Dimension




| 90T Hook | ×1 |
|---|---|
| Length (L) | 2160mm |
| Width (W) | 880mm |
| Height (H) | 715mm |
| Weight | 1275kg |

| 50T Hook | ×1 |
|---|---|
| Length (L) | 1885mm |
| Width (W) | 800mm |
| Height (H) | 525mm |
| Weight | 780kg |

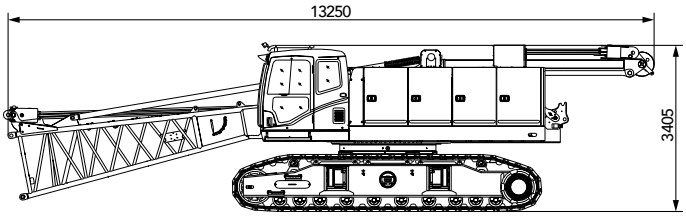
| 32T Hook | ×1 |
|---|---|
| Length (L) | 1770mm |
| Width (W) | 770mm |
| Height (H) | 475mm |
| Weight | 575kg |

| 13.5T Hook | ×1 |
|---|---|
| Length (L) | 975mm |
| Width (W) | 425mm |
| Height (H) | 425mm |
| Weight | 445kg |

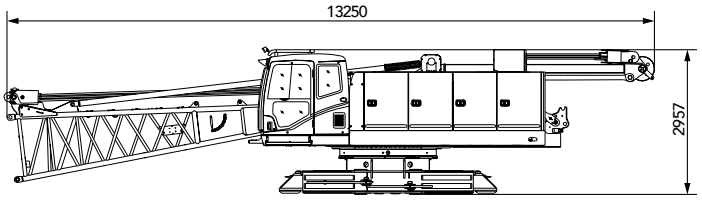
Note: Parts transport dimensions are sketches not proportional to the actual parts. The dimensions and weights are designed values without package, which are subject to fabrication tolerance.

# Transport Plan

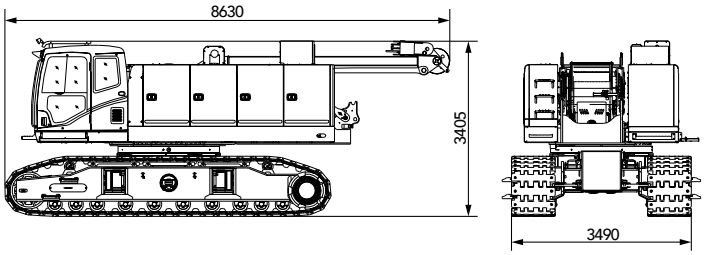
| Basic machine 1 | |
|---|---|
| Part(s) | ▪ Boom base<br>▪ Crawlers |
| Weight | ▪ 48100kg |



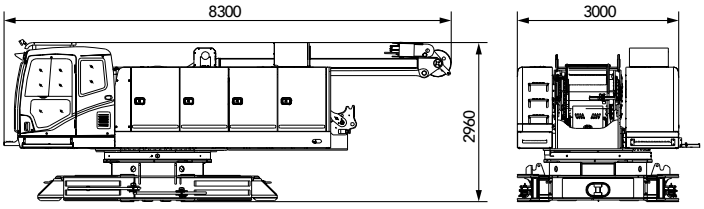

| Basic machine 2 | |
|---|---|
| Part(s) | ▪ Boom base |
| Weight | ▪ 28500kg |



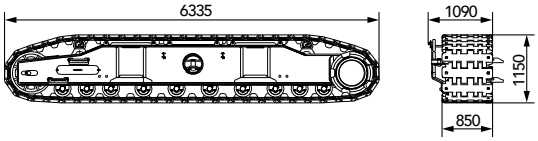

| Basic machine 3 | |
|---|---|
| Part(s) | ▪ Crawlers |
| Weight | ▪ 46500kg |




| Basic machine 4 | |
|---|---|
| Weight | ▪ 26500kg |




| Crawlers | |
|---|---|
| Weight | ▪ 9890kg |



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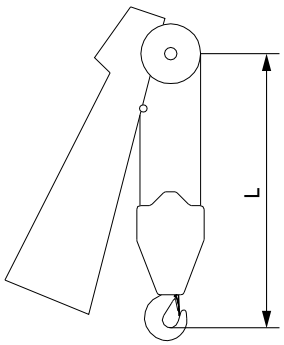
# SCC900HD
# BASE CONSTRUCTION CRAWLER CRANE
# 90 TONS LIFTING CAPACITY

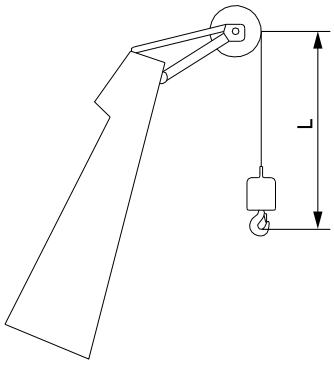
QUALITY CHANGES THE WORLD

## Cofigurations

## Height limit of hook




| Hook | L |
|---|---|
| 90t Hook | 4.6m |
| 50t Hook | 4.4m |
| 32t Hook | 4.3m |




| Hook | L |
|---|---|
| 13.5t ball hook | 3.7m |

# Boom/jib arrangements

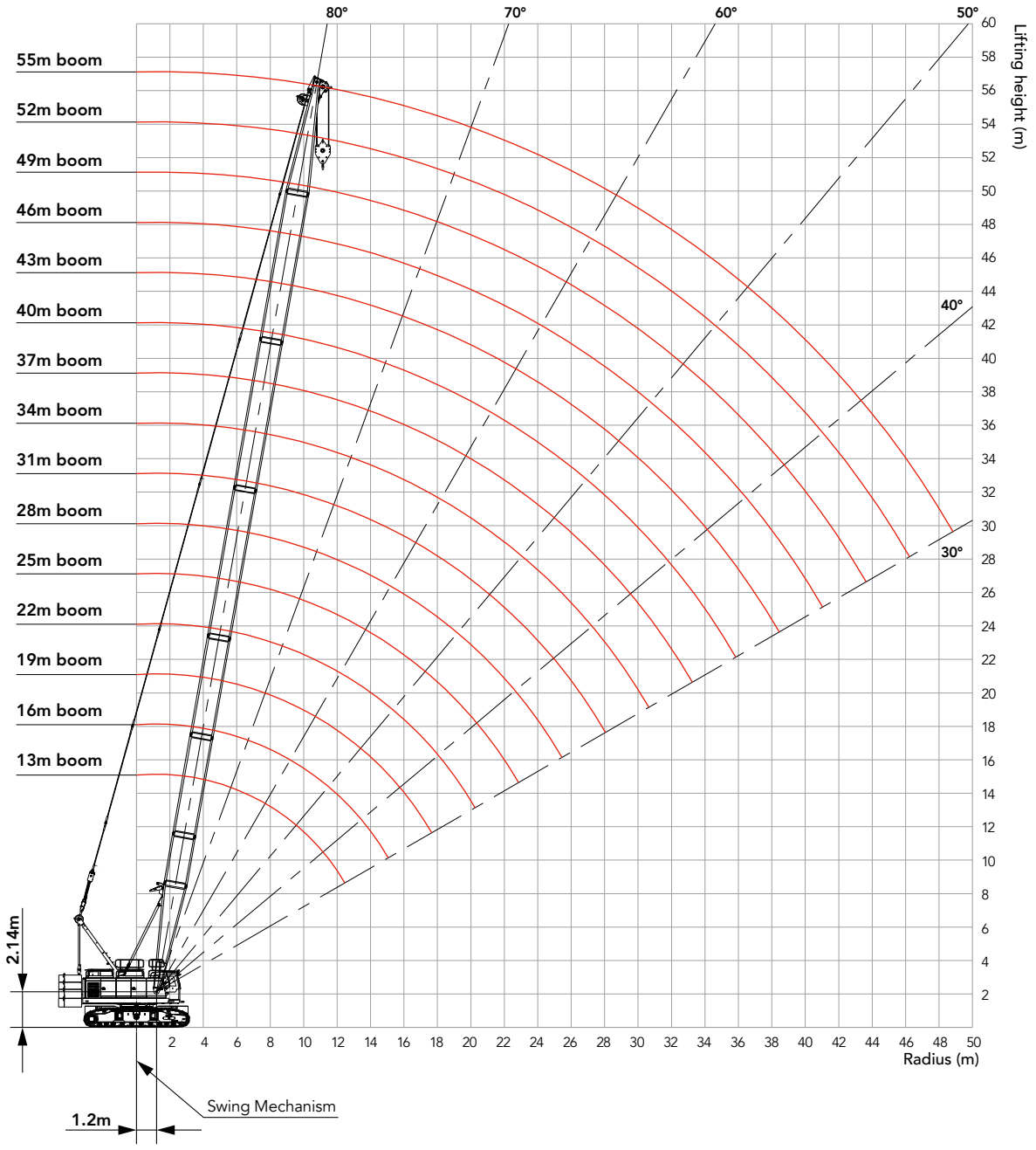
| Boom length | Boom/jib arrangements |
|---|---|
| 13 | ※ B T |
| 16 | ※ B 30 T |
| 19 | ※ B 60 T |
| 22 | ※ B 30 60 T<br>B 90 T |
| 25 | B 60 60 T<br>※ B 30 90 T |
| 28 | B 60 90 T<br>※ B 30 60 60 T |
| 31 | B 90 90 T<br>※ B 30 60 90 T |
| 34 | ※ B 30 90 90 T<br>B 60 60 90 T |

| Boom length | Boom/jib arrangements |
|---|---|
| 37 | B 60 90 90 T<br>※ B 30 60 60 90 T |
| 40 | B 90 90 90 T<br>※ B 30 60 90 90 T |
| 43 | B 30 90 90 90 T<br>※ B 60 60 90 90 T |
| 46 | B 60 90 90 90 T<br>※ B 30 60 60 90 90 T |
| 49 | ※ B 30 60 90 90 90 T |
| 52 | ※ B 60 60 90 90 90 T |
| 55 | ※ B 30 60 60 90 90 90 T |

| Symbol | length | Remark |
|---|---|---|
| B | 6.5m | Boom base |
| T | 6.5m | Boom top |
| 30 | 3m | 3m insert |
| 60 | 6m | 6m insert |
| 90 | 9m | 9m insert |

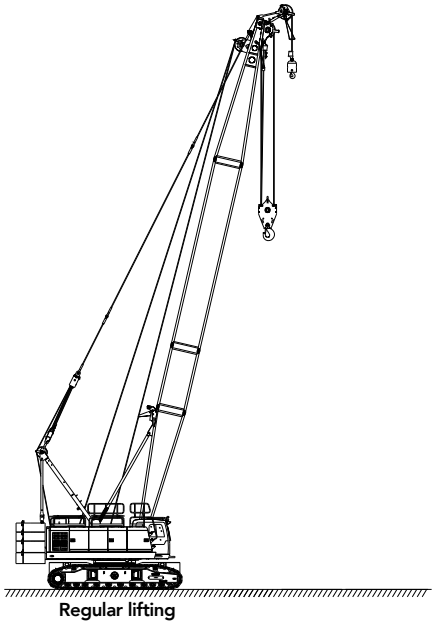
※ Means the most flexible combination, which can be modified to form shorter boom/jib arrangements

## Work Radius of H Configuration

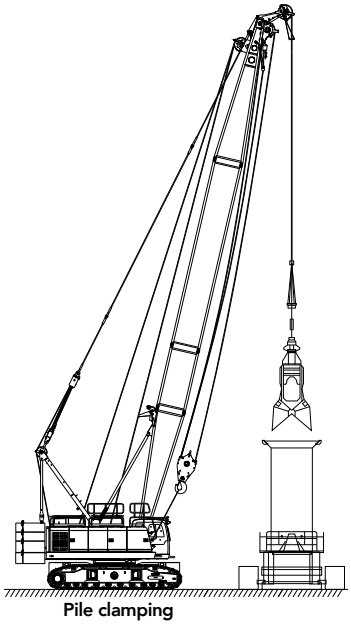


# Work Operation

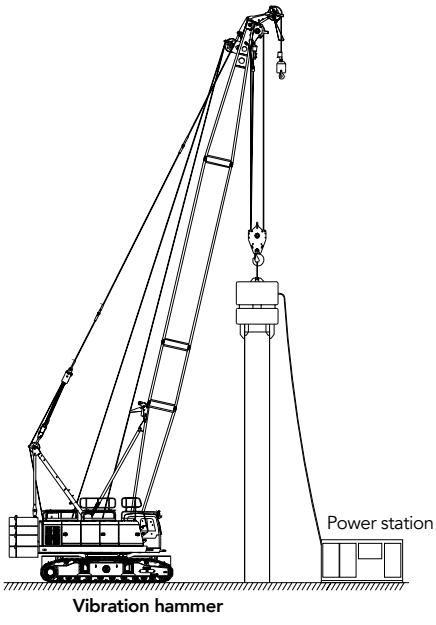
Applicable to lifting, pile clamping, vibration hammer, vibropercussion and clamshell, satisfying multiple purposes.



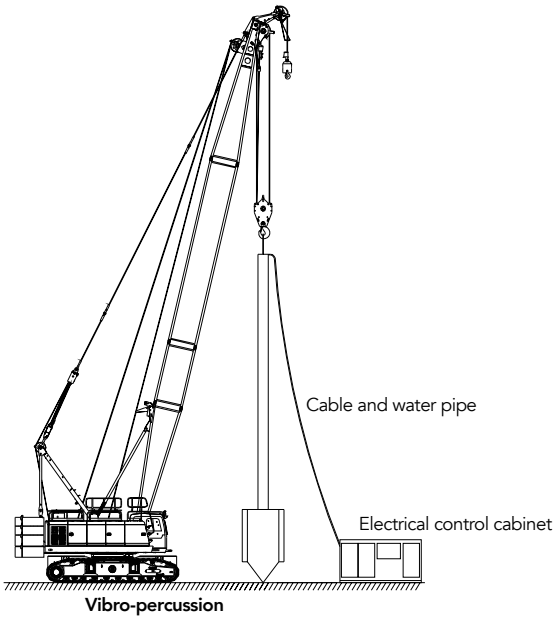
Regular lifting



Pile clamping




Vibration hammer




Vibro-percussion

# H Information

- Ratings according to GB3811.
- Working radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity load.
- The weight of hook, slings and other riggings shall be deducted from the ratings to get the actual capacity.
- The ratings are calculated when the load is freely suspended without considering the effect of wind load, ground condition, levelness, operation speed or any other negative effect on safety operation. Therefore, the operator has the responsibilities to judge the site condition, reduce the load and slow down the speed accordingly.
- All ratings are calculated when the machine is parking on firm and level ground with less than 1% gradient, and the load is lifted slowly and steadily.
- Boom inserts and pendant straps matching table are listed in the operation manual.
- Gantry must be in raised position for all work conditions.
- Boom backstops are required for all boom lengths.
- The boom should be erected over the front of the crawlers, not from side.
- Crawler frames must be fully extended for all crane operations.

## Reference information
## Main load hoist

| Parts of line | 1 | 2 | 3 |
|---|---|---|---|
| Max. load moment (kN) | 132.3 | 264.6 | 396.9 |
| Max. load (t) | 13.5 | 27 | 40.5 |

| Parts of line | 4 | 5 | 6 |
|---|---|---|---|
| Max. load moment (kN) | 529.2 | 661.5 | 793.8 |
| Max. load (t) | 54 | 67.5 | 81 |

| Parts of line | 7 |
|---|---|
| Max. load moment (kN) | 882 |
| Max. load (t) | 90 |

## Aux. load hoist

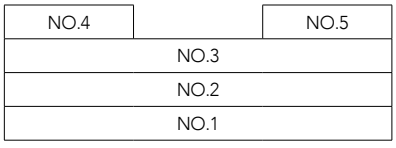
| Parts of line | 1 |
|---|---|
| Max. load moment (kN) | 132.3 |
| Max. load (t) | 13.5 |

## Hook weight

| Hook block | 90t | 50t | 32t | 13.5t |
|---|---|---|---|---|
| Weight (t) | 1.28 | 0.78 | 0.58 | 0.45 |

Operation of this crane in excess of rated loads or disregard of instruction is denied of warranty.

## Counterweight assembly
## 30.3t counterweight




counterweight

Unit: t

## Load Charts for H

| SCC900HD Crawler Crane – H Configuration 1/2 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Rear counterweight 30.3t, Undercarriage counterweight 6.4t | | | | | | | | | |
| R/BL (m) | 13 | 16 | 19 | 22 | 25 | 28 | 31 | 34 | R/BL (m) |
| 4 | 90 | | | | | | | | 4 |
| 5 | 73 | 72 | | | | | | | 5 |
| 6 | 59.5 | 58.9 | 58.5 | 59 | 58.7 | | | | 6 |
| 7 | 47.2 | 47 | 46.5 | 46.2 | 46.2 | 46.3 | 46.3 | | 7 |
| 8 | 39 | 38.6 | 38.8 | 38 | 37.7 | 38.1 | 38 | 37.5 | 8 |
| 9 | 33 | 33 | 32.6 | 32.8 | 32.1 | 32.2 | 32.1 | 32 | 9 |
| 10 | 28.5 | 28.6 | 28.3 | 28.3 | 27.8 | 27.8 | 27.8 | 27.5 | 10 |
| 11 | 25 | 25.1 | 24.9 | 24.9 | 24.5 | 24.5 | 24.4 | 24.3 | 11 |
| 12 | 22.3 | 22.4 | 22.3 | 22.1 | 21.8 | 21.8 | 21.7 | 21.7 | 12 |
| 14 | | 18.1 | 18.2 | 18.1 | 17.8 | 17.7 | 17.7 | 17.6 | 14 |
| 16 | | | 15.3 | 15.2 | 15 | 14.9 | 14.8 | 14.7 | 16 |
| 18 | | | 13.2 | 13.1 | 12.8 | 12.7 | 12.6 | 12.5 | 18 |
| 20 | | | | 11.4 | 11.1 | 11 | 11 | 10.8 | 20 |
| 22 | | | | | 9.8 | 9.7 | 9.6 | 9.5 | 22 |
| 24 | | | | | 8.7 | 8.6 | 8.5 | 8.3 | 24 |
| 26 | | | | | | 7.6 | 7.6 | 7.4 | 26 |
| 28 | | | | | | | 6.8 | 6.6 | 28 |
| 30 | | | | | | | | 6 | 30 |
| 32 | | | | | | | | | 32 |
| 34 | | | | | | | | | 34 |
| 36 | | | | | | | | | 36 |
| 38 | | | | | | | | | 38 |
| 40 | | | | | | | | | 40 |
| 44 | | | | | | | | | 44 |
| 48 | | | | | | | | | 48 |

Unit: t

## Load Chart for H

| SCC900HD Crawler Crane – H Configuration 2/2 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Rear counterweight 30.3t, Undercarriage counterweight 6.4t | | | | | | | | |
| R/BL (m) | 37 | 40 | 43 | 46 | 49 | 52 | 55 | R/BL (m) |
| 4 | | | | | | | | 4 |
| 5 | | | | | | | | 5 |
| 6 | | | | | | | | 6 |
| 7 | | | | | | | | 7 |
| 8 | | | | | | | | 8 |
| 9 | 32 | 31 | | | | | | 9 |
| 10 | 27.6 | 27.5 | 27 | | | | | 10 |
| 11 | 24.2 | 24.1 | 23.5 | 23.5 | 23.2 | | | 11 |
| 12 | 21.5 | 21.4 | 21 | 21 | 21 | 20.5 | | 12 |
| 14 | 17.5 | 17 | 17 | 17 | 17 | 16.8 | 16.5 | 14 |
| 16 | 14.6 | 14.1 | 14.2 | 14 | 14.1 | 13.8 | 13.7 | 16 |
| 18 | 12.4 | 12 | 12 | 12 | 11.9 | 11.5 | 11.5 | 18 |
| 20 | 10.7 | 10.4 | 10.3 | 10 | 10.2 | 10 | 9.8 | 20 |
| 22 | 9.4 | 9 | 9 | 8.8 | 8.9 | 8.6 | 8.5 | 22 |
| 24 | 8.2 | 7.9 | 8 | 7.8 | 7.7 | 7.5 | 7.4 | 24 |
| 26 | 7.3 | 7 | 7 | 7 | 6.7 | 6.5 | 6.4 | 26 |
| 28 | 6.5 | 6.3 | 6 | 6 | 6 | 5.9 | 5.7 | 28 |
| 30 | 5.9 | 5.6 | 5.5 | 5.3 | 5.3 | 5.2 | 5 | 30 |
| 32 | 5.3 | 5 | 5 | 4.7 | 4.7 | 4.5 | 4.4 | 32 |
| 34 | | 4.5 | 4.5 | 4.3 | 4.2 | 4 | 3.8 | 34 |
| 36 | | 4.1 | 4 | 3.9 | 3.7 | 3.6 | 3.5 | 36 |
| 38 | | 3.7 | 3.5 | 3.6 | 3.4 | 3.4 | 3 | 38 |
| 40 | | | | 3 | 2.9 | 2.8 | 2.6 | 40 |
| 44 | | | | | | 2.2 | 2 | 44 |
| 48 | | | | | | | 1.5 | 48 |

# Clamshell Information

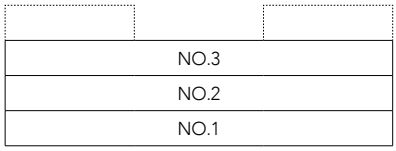
- Working radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity load.
- The ratings are calculated when the load is freely suspended without considering the effect of wind load, ground condition, levelness, operation speed or any other negative effect on safety operation. Therefore, the operator has the responsibilities to judge the site condition, reduce the load and slow down the speed accordingly.
- All ratings are calculated when the machine is parking on firm and level ground with less than 1% gradient, and the load is lifted slowly and steadily.
- Rated capacity is less than 66% of minimum tipping load.
- The clamshell is not allowed to use on the boom length and radius not shown on the load chart.
- Boom inserts and pendant straps matching table are listed in the operation manual.
- Gantry must be in raised position for all conditions.
- Boom backstops are required for all boom lengths.
- The boom should be erected over the front of the crawlers, not from side.
- Crawler frames must be fully extended for all crane operations.
- The weight of clamshell, lock, slings and other riggings shall be deducted from the ratings to get the actual capacity.
- Weight of clamshell and material shall not exceed rated load.
- Select the proper clamshell based on material to be handled.
- Capacity of bucket ($m^3$)×material density ($t/m^3$)+bucket weight(t)=rated capacity.
- The bucket weight shall be decreased according to the operation cycle and bucket lowering height.
- Rated capacity is determined by stability and boom strength. Multi-functions with lifting combined with swing must avoid sudden acceleration/deceleration.
- Do not release clamshell during swing or at angled position.

**Reference :**
**Main load hoist:**

| Parts of line | 1 |
|---|---|
| Max. load moment (kN) | 98 |
| Max. load (t) | 10 |

Operation of this crane in excess of rated loads or disregard of instruction is denied of warranty.

**Counterweight assembly**
**24.2t counterweight**




counterweight

Unit: t

## Load Chart for Clamshell

| SCC900HD Crawler Crane – Clamshell | | | | | | |
|---|---|---|---|---|---|---|
| Rear Counterweight 24.2t | | | | | | |
| R/BL (m) | 13 | 16 | 19 | 22 | 25 | R/BL (m) |
| 4 | 10 | | | | | 4 |
| 5 | 10 | 10 | 10 | | | 5 |
| 6 | 10 | 10 | 10 | 10 | 10 | 6 |
| 7 | 10 | 10 | 10 | 10 | 10 | 7 |
| 8 | 10 | 10 | 10 | 10 | 10 | 8 |
| 9 | 10 | 10 | 10 | 10 | 10 | 9 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 11 | 10 | 10 | 10 | 10 | 10 | 11 |
| 12 | 10 | 10 | 10 | 10 | 10 | 12 |
| 14 | | 10 | 10 | 10 | 10 | 14 |
| 16 | | | 8.4 | 8.3 | 8.2 | 16 |
| 18 | | | | 7.1 | 7 | 18 |
| 20 | | | | 6.1 | 6 | 20 |
| 22 | | | | | 5.4 | 22 |

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