

# SCS600A



Max. lifting capacity: 60t Max. boom length: 52m

Max. fixed jib combination: 43m+15.25m

The parameters, pictures and standard/optional equipment are only for reference in this brochure, the actual machine is based on the eff ective price list and contract.

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Crawler Crane Series SCS600A

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# SCS600A SANY Crawler Crane Southeast Asia 60 Tons Lifting Capacity

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## Main Characteristics

- Page 04 Product Specification
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### **Product Specification**



#### **Engine**

- Model: Weichai WP6.
- Type: Water-cooled, vertical in-line 6 cylinders, electronic control, turbo-charger, intercooler.
- Displacement: 6.75L.
- Rated power: 140kW/2000rpm.
- Operation power: 140kW/1800rpm.
- Max. torque: 860N·m/1300~1500rpm.
- Cooling system: Water-cooled.
- Starter: 24V-6.0kW.
- Radiator: Fin type aluminum plate core.
- Air cleaner: Dry type system with main filter element, safety element and resistance indicator.
- Throttle: Pedal-operated throttle, adjustable speed.
- Fuel filter: With electric pumping oil, fuel heating, water removal filter functions
- Batteries: Two 12V×180Ah capacity batteries, connected in series.
- Emission standard: Complied with Non-road Euro III emission standard.
- Fuel tank capacity: 400L.

#### Electrical control system

- Self-developed SYIC-III integrated control system is adopted with higher integration, precise operation and reliable quality.
- Control system consists of power system, engine system, main control system, LMI system, auxiliary system and safety monitoring system. CAN 2.0B is used for data communication between controller, monitor and the engine.
- Power control: Multi-process display, power control is maintained at about 5ms running cycle.
- Intelligent safety: center of gravity control, wind speed early warning, ground pressure early warning, all-round safety protection, reduce the probability of operation error.
- Intelligent operation and maintenance: Predictive maintenance, OTA upgrade, remote machine lock.

#### Hydraulic system

- Main pumps: Open variable displacement piston pumps of large displacement are adopted to provide oil supply for main actuators of main machine.
- Gear pump: Dual gear pump for slewing, radiator and control
- Control: Main pump adopts electrically-controlled positive flow control; winch motor adopts adjustable piston motor of variable displacement. The operating components are two cross hydraulic handle, one dual travel pedal control valve to control various actuators proportionally.
- Way of cooling: Heat exchanger, fan core and multi-stage cooling.
- Filter: Large flow, high precision filter, with bypass valve and transmitter, which can remind the user to replace the filter element in time.
- Max. pressure of system: 32Mpa.
- Main/aux. load hoist and travel system: 32Mpa.
- Slewing system: 22MPa.Control system: 5MPa.
- Hydraulic tank capacity: 310L.

#### Main and auxiliary load hoist mechanism

- Main and aux. hoist winches are driven separately by the winch motor through the reducer. 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.

#### Non free fall for main and aux. load hoist (standard) :

	Drum diameter	520mm
Main	Rope speed	0~130m/min
hoisting	Diameter of wire rope	Ф 22mm
mechanism	Main load hoist wire rope length	180m
	Rated single line pull	7.5t
	Drum diameter	520mm
Auxiliary	Rope speed	0~130m/min
hoisting	Diameter of wire rope	Ф 22mm
mechanism	Aux. load hoist wire rope length	130m
	Rated single line pull	7.5t

#### **Product Specification**



#### Free fall for main/aux. load hoist (optional) :

	Drum diameter	541mm
Main	Rope speed	0~130m/min
hoisting	Wire rope diameter	Ф 22mm
mechanism	Main hoist wire rope length	180m
	Rated single line pull	7.5t
	Drum diameter	541mm
Aux.	Rope speed	0~130m/min
hoisting	Wire rope diameter	Ф 22mm
mechanism	Aux. hoist wire rope length	130m
	Rated single line pull	7.5t

#### Luffing mechanism

- Boom hoist winch is driven directly by reducer. 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.

	Drum diameter	355mm
Boom hoist	Rope speed	0~80m/min
mechanism	Diameter of wire rope	Ф 16mm
	Boom hoist wire rope length	158m

#### Slewing mechanism

- Slewing brake adopts wet, spring loaded, normally-closed brake, and braking through spring force.
- Slewing system, equipped with integrated slewing buffer valve.
   It is featured in steady starting and control, and excellent inching function. Three slewing mode: anti-slip, semi-drift, drift.
- Slewing drive: External engaged slewing drive with 360° slewing range, and the max. slewing speed is 1.9r/min.
- Slewing ring: Single row ball bearing.

#### Cab and control

- Industrial modeling design of C6 intelligent operator's cab, intelligent, control comfort, safety and interior comfort greatly improved, equipped with open front window, left sliding door, touch screen control system. There are low and high-beam lights, back-view mirror, panoramic skylight, heater and A/C, radio and other functions. The layout of seat, handles, control buttons are designed with ergonomic principles to make operation more comfortable.
- Display: Integrated 10.1-inch touch screen with visualization fault self-diagnosis, car phone, bluetooth audio, video storage and export, high-definition camera display screen. Multiple cameras can present on the monitor at the same time to realize backing video, real-time monitoring of wire rope on each winch, conditions behind the counterweight and surrounding the machine
- Armrest box and panel: On the left and right armrest box are control handles, electrical switches, emergent stop, reading light, microphone, USB port, cigarette lighter and ignition switch.
- Seat: Longer and wider dynamic suspension seat with six position adjustable headrest and weight adaptation adjustment function.
- A/C: High-powered heating and cooling air conditioning system with, multi-vent layout, CFD flow field simulation design and touch screen control, making the operation more comfortable.
- Safety: Metal profile sheet metal welded frame, more stable structure. High-density top grille guardrail, can effectively block falling objects from height.

#### Counterweight

- The stacking mode of counterweight tray and blocks is used for easy assembly, disassembly and transportation.
- Rear counterweight: Total weight 16.5t.
- The standard counterweight tray 5.0t×1, Middle counterweight 5.6t×1, Upper counterweight 5.9t×1.

#### Superstructure

 High-strength steel weld framework, with no torsion or deformation. The parts are laid out in the way that is easier for maintenance and service.

#### **Product Specification**



#### Lower structure

• 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 ensure long service life.
- They are 770mm wide with a quantity of 61 pcs×2.

#### Boom

- Lattice structure. The chord adopts high-strength structural tube and each section is connected through pins.
- Basic boom: 6.5m boom base + 6.5m boom top.
- Boom insert: 3m×1, 6m×3, 9m×2.
- Boom length: 13m~52m.

#### Fixed jib

- Lattice structure. The chord adopts high-strength structural tube and each section is connected through pins.
- Basic jib: 3.05m jib base+3.05m jib top.
- Jib insert: 3.05m×3.
- Fixed jib: 6.1m~15.25m.
- Longest boom+jib: 43m+15.25m.

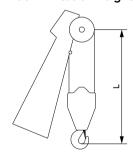
#### Runner

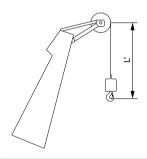
- The extension jib is a welded structure connected to the boom tip by pins, used for auxiliary hook.
- Length: 1.0m.

#### Hook block

- 60t hook block, 5 sheaves.
- 45t hook block, 5 sheaves.
- 15t hook block, 1 sheave.
- 9t ball hook.

#### Hook limitation height





Hook	L
60t	3.2m
45t	3.2m
15t	2.9m

Hook	Ľ
9t	2.8m

#### **Safety Devices**



#### Assembly/work mode control 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 activate 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 limit Indicator (LMI)

- It is an independent computerized safety control system. LMI 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 LMI 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.
- It is composed of monitor, angle sensor and force sensor and other parts.

#### 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 lifting up too much.
- When the hook lifts up to the limit height, the limit switch activates, buzzer on the left control panel sends alarm, failure indicator light starts to flash, and 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 lever**

 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.

#### Luffing winch lock device

Pawl lock is used on boom hoist winch, which needs to unlock by switch before operation, in order to prevent mis-operation of handles and ensure safety during nonwork time.

#### Slewing lock device

 Slewing Lock can lock the superstructure and lower structure during transportation.

#### Boom limit device

 When the boom elevation angle reaches the max. set limit, the buzzer sounds and boom action cut off. This protection is twostage control ensured by both LMI system and travel switch;

#### 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 hook is provided with a baffle to prevent wire rope from falling off.

#### **Safety Devices**



#### 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 is 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 slewing, it sends out sirens.

#### Slewing indicator light

• The slewing indicator light flashes during traveling or slewing.

#### Illuminating light

The machine is equipped with the low beam light and high beam light at the front of the cab, illumination light at cab, and other night lights, boom lights to improve the visibility during construction.

#### Camera

Set the front armrest of the right hood to monitor the rear of the whole machine.

#### **Pharos**

• Pharos is mounted on the top of boom/jib to indicate the height.

#### **Anemometer**

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

#### Electronic level indicator

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

#### Seat interlock

 Put down the function lock lever on the left side of cab seat or if the operator leaves the seat, all control levers will be deactivated 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.



## SCS600A SANY Crawler Crane Southeast Asia 60 Tons Lifting Capacity

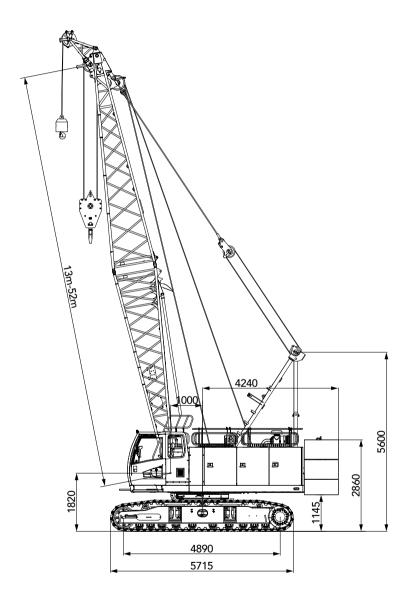
QUALITY CHANGES THE WORLD

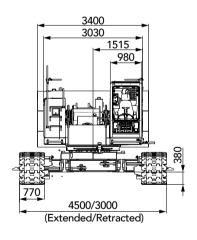
## **Technical Parameters**

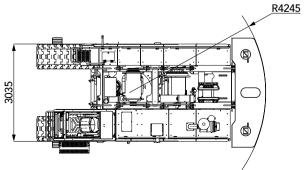
- Page 10 Major Performance & Specifications
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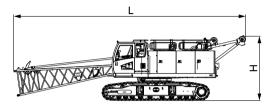
## Major Performance Specifications

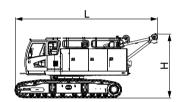
Major Performa	nce & Specifications of SCS600A		
Performance Indic	ators	Unit	Parameter
	Max. lifting capacity	t	60
Boom configuration	Max. lifting moment	t·m	222
	Boom length	m	13~52
	Boom luffing angle	۰	30~80
	Max. lifting capacity	t	7
Fixed jib	Jib length	m	6.1~15.25
configuration	Longest boom + longest fixed jib	m	43+15.25
	Fixed jib angle	۰	10,30
	Rope speed of main/aux. winch	m/min	0~130
Operation	Rope speed of boom hoist winch	m/min	0~80
speed	Slewing speed	rpm	1.9
	Travel speed	km/h	0~1.3
	Main hoist wire rope: diameter × length	фmm×m	22×180
Wire rope	Aux. hoist wire rope: diameter × length	фmm×m	22×130
	Rated single line pull of main/aux. hoist wire rope	t	7.5
Engine	Model/Displacement	/L	Weichai WP6/6.75
Liigilie	Rated power/Revolution speed	kW/rpm	140/2000
	Weight of machine with basic boom	t	Non-free fall 46.4t Single free fall 47.1t Double free fall 47.8t
	Rear counterweight	t	16.5
Transport parameter	Transport weight of basic machine (with crawler frames and boom base)	t	Non-free fall 28.9t Single free fall 29.6t Double free fall 30.3t
	Transport weight of basic machine (without crawler frame and boom base)	t	Non-free fall 15.0t Single free fall 15.7t Double free fall 16.4t
	Machine transport dimension (with crawlers and boom base) L×W×H	mm	12320×3030×3450
	Machine transport dimension (without crawlers and boom base) L×W×H	mm	7360×3030×3070
Other	Average ground pressure (basic boom)	Мра	0.06
parameters	Gradeability	%	40

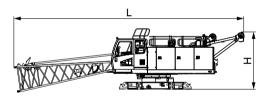


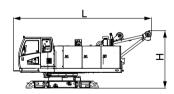


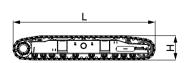


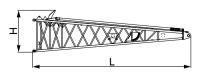












Basic machine and crawlers)	1 (with boom base	×1
Length (L)		12.32m
Width (W)		3.03m
Height (H)		3.45m
	Non-free fall	28.9t
Weight	Single free fall	29.6t
	Double free fall	30.3t
Basic machine without boom	2 (with crawlers,	×1
Length (L)	buscy	7.64m
Width (W)		3.03m
Height (H)		3.45m
rieight (ri)	Non-free fall	28.0t
Weight	Single free fall	28.7t
vveignt	Double free fall	29.4t
	Double free fair	27.٦١
Basic machine without crawle	3 (with boom base, ers	×1
Length (L)		12.32m
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
Width (W)		3.03m
Height (H)		3.03m 3.07m
	Non-free fall	
	Non-free fall Single free fall	3.07m
Height (H)		3.07m 15.9t
Height (H) Weight  Basic machine	Single free fall Double free fall 4 (without boom	3.07m 15.9t 16.6t
Height (H) Weight  Basic machine base and craw	Single free fall Double free fall 4 (without boom	3.07m 15.9t 16.6t 17.3t
Height (H) Weight  Basic machine	Single free fall Double free fall 4 (without boom	3.07m 15.9t 16.6t 17.3t
Height (H)  Weight  Basic machine base and craw Length (L) Width (W)	Single free fall Double free fall 4 (without boom	3.07m 15.9t 16.6t 17.3t ×1 7.36m
Height (H) Weight  Basic machine base and craw Length (L)	Single free fall Double free fall 4 (without boom	3.07m 15.9t 16.6t 17.3t ×1 7.36m 3.03m
Height (H)  Weight  Basic machine base and craw Length (L) Width (W) Height (H)	Single free fall Double free fall  4 (without boom rlers)  Non-free fall	3.07m 15.9t 16.6t 17.3t ×1 7.36m 3.03m 3.07m
Height (H)  Weight  Basic machine base and craw Length (L) Width (W)	Single free fall Double free fall  4 (without boom rlers)	3.07m 15.9t 16.6t 17.3t ×1 7.36m 3.03m 3.07m 15.0t
Height (H)  Weight  Basic machine base and craw Length (L) Width (W) Height (H)	Single free fall Double free fall  4 (without boom riers)  Non-free fall Single free fall	3.07m 15.9t 16.6t 17.3t ×1 7.36m 3.03m 3.07m 15.0t 15.7t
Height (H) Weight  Basic machine base and craw Length (L) Width (W) Height (H)  Weight	Single free fall Double free fall  4 (without boom riers)  Non-free fall Single free fall	3.07m 15.9t 16.6t 17.3t ×1 7.36m 3.03m 3.07m 15.0t 15.7t 16.4t
Height (H)  Weight  Basic machine base and craw Length (L) Width (W) Height (H)  Weight  Crawlers Length (L)	Single free fall Double free fall  4 (without boom riers)  Non-free fall Single free fall	3.07m 15.9t 16.6t 17.3t ×1 7.36m 3.03m 3.07m 15.0t 15.7t 16.4t ×2 5.75m
Height (H) Weight  Basic machine base and craw Length (L) Width (W) Height (H)  Weight  Crawlers	Single free fall Double free fall  4 (without boom riers)  Non-free fall Single free fall	3.07m 15.9t 16.6t 17.3t ×1 7.36m 3.03m 3.07m 15.0t 15.7t 16.4t ×2

6.3t

6.65m

1.39m

1.76m

0.8t

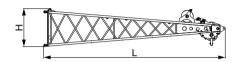
Weight

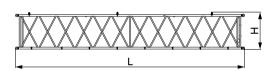
Length (L)

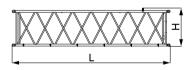
Width (W)

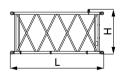
Height (H)

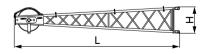
Weight

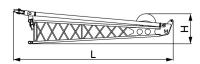












Boom top	×1
Length (L)	7.10m
Width (W)	1.39m
Height (H)	1.48m
Weight	0.8t

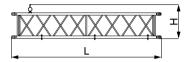
9m boom	×2
Length (L)	9.10m
Width (W)	1.39m
Height (H)	1.48m
Weight	0.6t

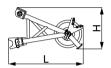
6m boom	×3
Length (L)	6.10m
Width (W)	1.39m
Height (H)	1.48m
Weight	0.4t

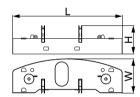
3m boom	×1
Length (L)	3.10m
Width (W)	1.39m
Height (H)	1.48m
Weight	0.2t

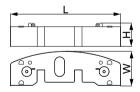
Fixed jib top	×1
Length (L)	3.38m
Width (W)	0.70m
Height (H)	0.55m
Weight	0.2t

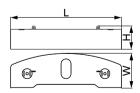
Fixed jib base and mast	×1
Length (L)	3.57m
Width (W)	0.61m
Height (H)	0.78m
Weight	0.3t

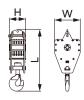












3.05m fixed jib insert	×3
Length (L)	3.11m
Width (W)	0.62m
Height (H)	0.70m
Weight	0.1t

Runner	×1
Length (L)	1.23m
Width (W)	0.72m
Height (H)	0.70m
Weight	0.1t

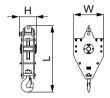
Counterweight tray	×1
Length (L)	3.40m
Width (W)	1.07m
Height (H)	0.88m
Weight	5.0t

Middle coun	terweight	×1
Length (L)		3.40m
Width (W)		1.07m
Height (H)		0.72m
Weight		5.6t

Upper counterweight	×1
Length (L)	3.40m
Width (W)	1.07m
Height (H)	0.71m
Weight	5.9t

60t hook	×1
Length (L)	1.65m
Width (W)	0.69m
Height (H)	0.39m
Weight	0.7t







- nemarks:

  1. The transport dimensions for the parts are for reference that do not draw to the scale. The dimensions listed above are designed values excluding packing.

  2. Weight is design values. It maybe different due to manufacturing tolerances.

45t hook	×1
Length (L)	1.52m
Width (W)	0.69m
Height (H)	0.37m
Weight	0.5t

15t hook	×1
Length (L)	1.34m
Width (W)	0.60m
Height (H)	0.34m
Weight	0.3t

9t ball hook	×1
Length (L)	0.75m
Width (W)	0.30m
Height (H)	0.30m
Weight	0.2t

## **Transport Plan**

# Trailer 1 Part (s) Basic machine (with boom base, crawler frame) Transport weight Non-free fall 28.9t Single free fall 29.6t Double free fall 30.3t

#### • 9m boom insert ×2 • 6m boom insert ×3 • 3m boom insert ×1 ■ Boom top ×1 ■ Runner ×1 • 3.05m fixed jib insert ×3 • Fixed jib base and strut ×1 Fixed jib top ×1 Counterweight tray ×1 Middle counterweight ×1 Upper counterweight ×1 ■ 60t hook ×1 ■ 45t hook ×1 ■ 15t hook ×1 • 9t ball hook ×1 ■ 23.0t



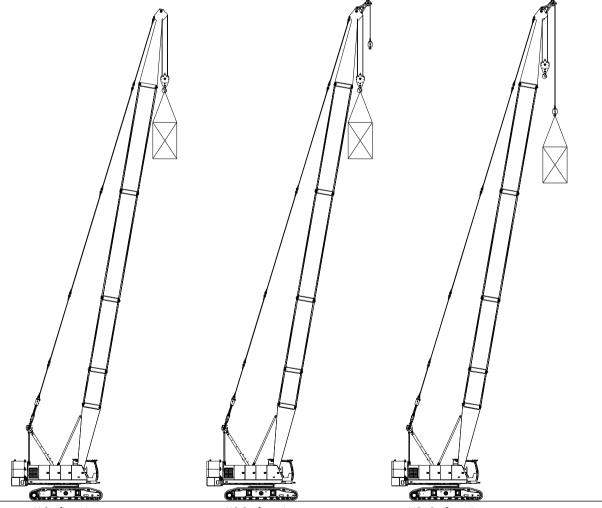
# SCS600A SANY Crawler Crane Southeast Asia 60 Tons Lifting Capacity

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# Configurations

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## Combination



 $\ \, \hbox{H Configuration}$ 

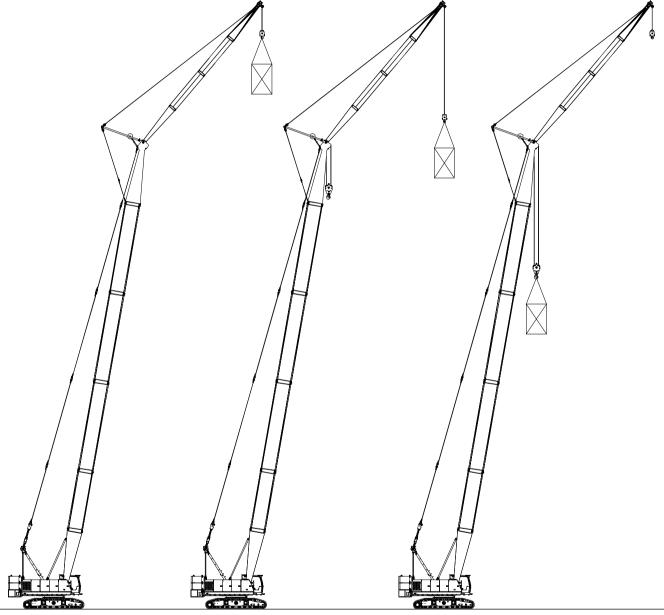
HC Configuration (double hooks, load on main hook)

HCa Configuration (double hooks, load on aux. hook)

Configuration	Boom Conbination	Boom Length
Н	Boom	
HCm	Boom + CK (double hooks, load on main hook)	13m~52m
HCa	Boom + CK (double hooks, load on aux. hook)	

The schematics above are reference for loading only.

## Combination



FJ Configuration (single hook)

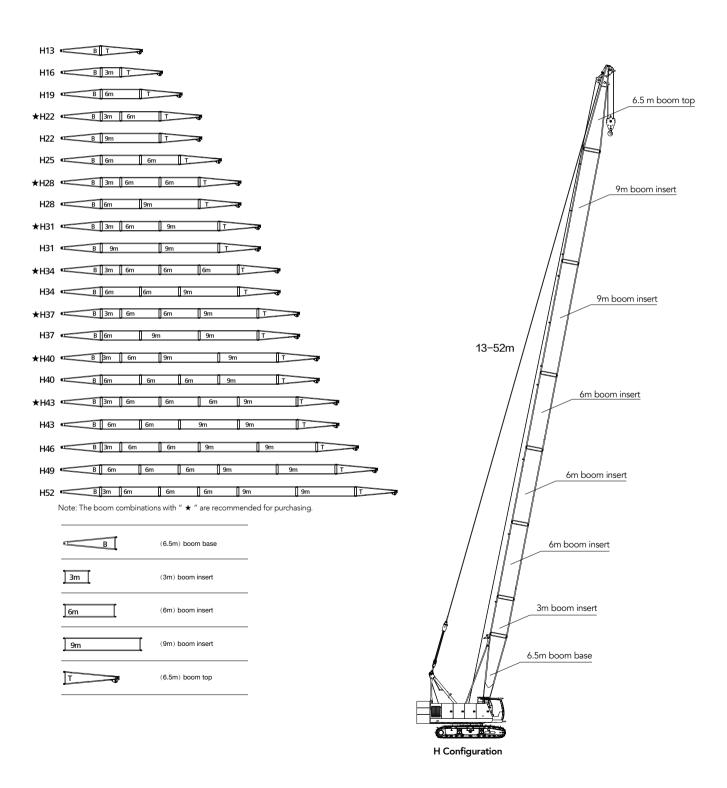
FJa Configuration (double hooks, load on aux. hook)

FJm Configuration (double hooks, load on main hook)

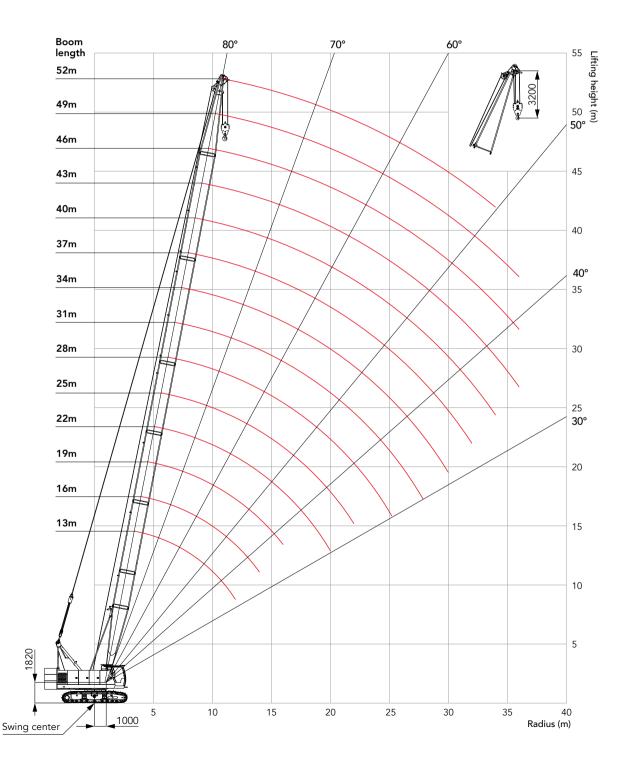
Configuration	Boom Conbination	Boom Length
FJ	Boom + Fixed Jib (single hook)	
FJa	Boom + Fixed Jib (double hooks, load on aux. hook)	( 22m~43m)+( 6.1m~15.25m)
FJm	Boom + Fixed Jib (double hooks, load on main hook)	

The schematics above are reference for loading only.

#### **Boom Combination in H**



## Working Range of H



Configurations

Unit: t

## **Load Chart of H Configuration**

- Notes: Rated capacity of crawler crane:

  ① The rated load in the table is calculated in accordance with GB/T 3811.

  ② The rated capacity in the load charts is calculated when the crane is parking on firm and level ground and lifting the load slowly and steadily.

  ③ The rated capacity values in the load charts are only valid when wind speed is lower than 9.8 m/s.

  ④ The rated capacity in the load charts includes the weight of lifting hook, etc.; therefore, the actual rated capacity is the value after deducting the weight of lifting tools (such as lifting hook), from the rated load in the load charts.

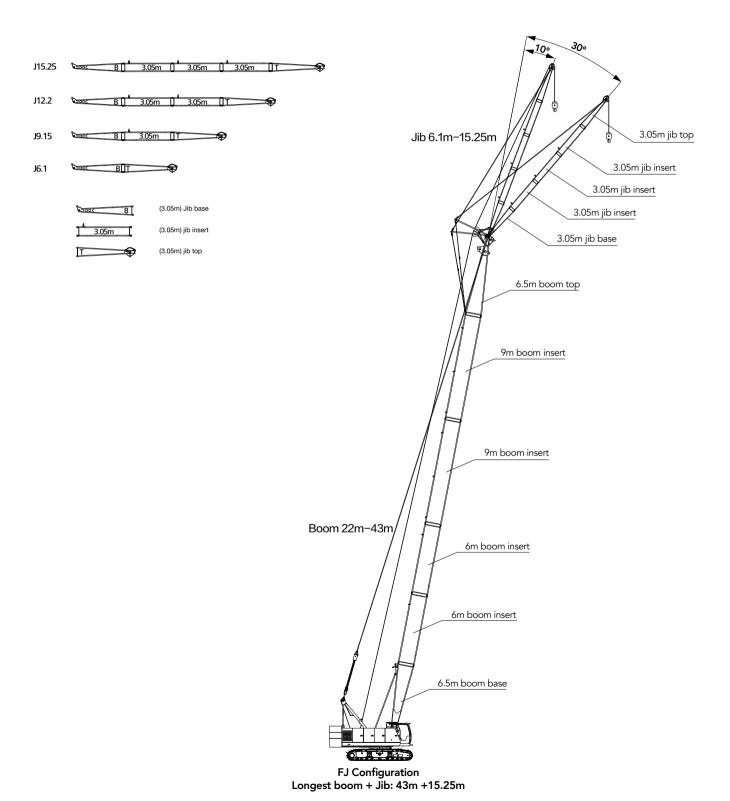
  The crawlers must be extended during lifting.
  The values in the load charts are valid for 360° slewing.

- The first mand HCa load tables are shown in the manual.

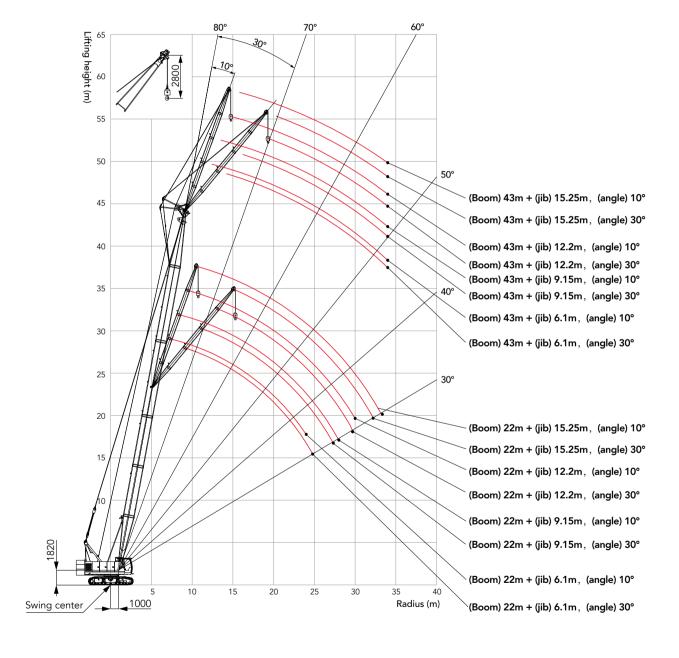
  SCS600A standard with graded counterweight and no counterweight operating load table, please refer to the manual load table or query and set the working condition in the driver's cab display for details.

							Load c	hart - H							
						Rea	ar counte	weight 1	6.5t						
BL(m) R(m)	13	16	19	22	25	28	31	34	37	40	43	46	49	52	BL(m) R(m)
3.7	60														3.7
4	55	52													4
5	41.5	39.8	38.5	36.8											5
6	31.2	31.2	30.5	29.6	28.7	27.8									6
7	24.8	24.8	24.8	24.8	23.9	23.3	22.7	22.1							7
8	20.5	20.5	20.5	20.4	20.4	19.9	19.5	19	18.5	18.1					8
9	17.5	17.4	17.4	17.4	17.3	17.3	17	16.6	16.2	15.9	15.5	15.1			9
10	15.3	15.1	15.1	15.1	15	14.9	14.9	14.7	14.4	14.1	13.8	13.5	13.2	12.9	10
11	13.4	13.3	13.3	13.3	13.2	13.1	13.1	13	12.9	12.6	12.4	12.1	11.8	11.5	11
12	12.1	11.9	11.8	11.8	11.7	11.7	11.6	11.5	11.5	11.4	11.2	10.9	10.7	10.4	12
14		9.8	9.7	9.6	9.6	9.5	9.4	9.4	9.3	9.2	9.1	9.1	8.9	8.7	14
16			8.1	8.1	8	7.9	7.9	7.8	7.7	7.7	7.6	7.5	7.4	7.3	16
18				6.9	6.9	6.8	6.7	6.6	6.6	6.5	6.4	6.3	6.3	6.2	18
20				6	5.9	5.9	5.8	5.7	5.7	5.6	5.5	5.4	5.3	5.2	20
22					5.2	5.1	5.1	5	4.9	4.8	4.8	4.7	4.6	4.5	22
24						4.5	4.5	4.4	4.3	4.2	4.2	4.1	4	3.9	24
26							4	3.9	3.8	3.7	3.7	3.6	3.5	3.4	26
28								3.5	3.4	3.3	3.2	3.1	3.1	3	28
30								3.1	3	3	2.9	2.8	2.7	2.6	30
32									2.7	2.6	2.6	2.5	2.4	2.3	32
34										2.4	2.3	2.2	2.1	2	34
36											2	1.9	1.9	1.8	36
38											1.8	1.7	1.7	1.5	38
40												1.5	1.5	1.4	40
42													1.3	1.2	42

## **Boom Combination in FJ**



## **Working Range of FJ**



Unit: t

## **Load Chart of FJ Configuration**

- Notes: Rated capacity of crawler crane:
  ① . ① The rated load in the table is calculated in accordance with GB/T 3811.
  ② . The rated capacity in the load charts is calculated when the crane is parking on firm and level ground and lifting the load slowly and steadily.
  ③ . The rated capacity values in the load charts are only valid when wind speed is lower than 9.8 m/s.
  ④ . The rated capacity in the load charts includes the weight of lifting hook, etc.; therefore, the actual rated capacity is the value after deducting the weight of lifting tools (such as lifting hook), from the rated load in the load charts.

- (a) The crawlers must be extended during lifting.
  (b) The values in the load charts are valid for 360° slewing.
  (7) See Operation Manual for load charts of FJm and FJa configurations.

				FJ Configu	uration 1/4				
			Jib 6.1m	ı, angle boom t	o jib 10°, rear (	CW 16.5t			
R(m)	22	25	28	31	34	37	40	43	BL(m) R(m)
7	7								7
8	7	7	7						8
9	7	7	7	7	7				9
10	7	7	7	7	7	7	7		10
11	7	7	7	7	7	7	7	7	11
12	7	7	7	7	7	7	7	7	12
14	7	7	7	7	7	7	7	7	14
16	7	7	7	7	7	7	7	7	16
18	6.8	6.7	6.6	6.5	6.5	6.4	6.3	6.2	18
20	5.9	5.8	5.7	5.6	5.5	5.5	5.4	5.3	20
22	5.2	5.1	5	4.9	4.8	4.7	4.6	4.6	22
24	4.6	4.5	4.4	4.3	4.2	4.1	4	4	24
26		4	3.9	3.8	3.7	3.6	3.5	3.5	26
28		3.6	3.5	3.4	3.3	3.2	3.1	3.1	28
30			3.1	3	2.9	2.9	2.7	2.7	30
32				2.7	2.6	2.5	2.4	2.4	32
34					2.4	2.3	2.2	2.1	34
36					2.1	2	1.9	1.9	36
38						1.8	1.7	1.6	38
40							1.5	1.4	40
42								1.3	42
44								1.1	44

Unit: t

## Load Chart of FJ Configuration

				FJ Configu	uration 2/4									
	Jib 9.15m, angle boom to jib 10°, rear CW 16.5t													
R(m)	22	25	28	31	34	37	40	43	BL(m) R(m)					
8	7								8					
9	7	7	7						9					
10	7	7	7	7	7				10					
11	7	7	7	7	7	7	7		11					
12	7	7	7	7	7	7	7	7	12					
14	7	7	7	7	7	7	7	7	14					
16	7	7	7	7	7	7	7	7	16					
18	6.9	6.8	6.7	6.6	6.5	6.5	6.4	6.3	18					
20	6	5.9	5.8	5.7	5.6	5.5	5.4	5.4	20					
22	5.3	5.1	5.1	5	4.9	4.8	4.7	4.7	22					
24	4.7	4.5	4.5	4.4	4.3	4.2	4.1	4	24					
26	4.2	4	4	3.9	3.8	3.7	3.6	3.5	26					
28	3.8	3.6	3.5	3.4	3.4	3.3	3.2	3.1	28					
30		3.3	3.2	3.1	3	2.9	2.8	2.8	30					
32			2.9	2.8	2.7	2.6	2.5	2.4	32					
34			2.6	2.5	2.4	2.3	2.2	2.2	34					
36				2.2	2.2	2.1	2	1.9	36					
38					1.9	1.9	1.7	1.7	38					
40						1.7	1.5	1.5	40					
42							1.4	1.3	42					
44							1.2	1.2	44					
46								1	46					

Configurations

## Load Chart of FJ Configuration

				FJ Configu	ıration 3/4									
	Jib 12.2m, angle boom to jib 10°, rear CW 16.5t													
R(m)	22	25	28	31	34	37	40	43	BL(m) R(m)					
9	7								9					
10	7	7	7						10					
11	7	7	7	7	7				11					
12	7	7	7	7	7	7	7		12					
14	7	7	7	7	7	7	7	7	14					
16	6.6	6.9	7	7	7	7	7	7	16					
18	6.2	6.4	6.6	6.7	6.6	6.5	6.4	6.3	18					
20	5.9	5.9	5.8	5.8	5.7	5.6	5.5	5.5	20					
22	5.3	5.2	5.1	5	5	4.9	4.8	4.7	22					
24	4.7	4.6	4.5	4.4	4.3	4.3	4.2	4.1	24					
26	4.2	4.1	4	3.9	3.8	3.8	3.7	3.6	26					
28	3.8	3.7	3.6	3.5	3.4	3.3	3.2	3.2	28					
30	3.4	3.3	3.2	3.1	3.1	3	2.9	2.8	30					
32		3	2.9	2.8	2.7	2.6	2.5	2.5	32					
34		2.7	2.6	2.5	2.5	2.4	2.3	2.2	34					
36			2.4	2.3	2.2	2.1	2	2	36					
38				2.1	2	1.9	1.8	1.7	38					
40					1.8	1.7	1.6	1.5	40					
42					1.6	1.5	1.4	1.4	42					
44						1.4	1.2	1.2	44					
46							1.1	1	46					

## Load Chart of FJ Configuration

				FJ Config	uration 4/4									
	Jib 15.25m, angle boom to jib 10°, rear CW 16.5t													
R(m)	22	25	28	31	34	37	40	43	BL(m) R(m)					
10	7								10					
11	7	7	7						11					
12	7	7	7	7	7				12					
14	6.5	6.7	6.8	6.9	7	7	7	7	14					
16	6	6.2	6.4	6.5	6.6	6.7	6.8	6.9	16					
18	5.7	5.8	6	6.2	6.3	6.4	6.4	6.3	18					
20	5.3	5.5	5.7	5.8	5.7	5.7	5.6	5.5	20					
22	5.1	5.2	5.2	5.1	5	4.9	4.8	4.8	22					
24	4.8	4.6	4.6	4.5	4.4	4.3	4.2	4.2	24					
26	4.3	4.1	4.1	4	3.9	3.8	3.7	3.6	26					
28	3.8	3.7	3.6	3.5	3.5	3.4	3.3	3.2	28					
30	3.5	3.3	3.3	3.2	3.1	3	2.9	2.8	30					
32	3.2	3	2.9	2.8	2.8	2.7	2.6	2.5	32					
34	2.9	2.7	2.7	2.6	2.5	2.4	2.3	2.2	34					
36		2.5	2.4	2.3	2.2	2.2	2	2	36					
38			2.2	2.1	2	1.9	1.8	1.8	38					
40				1.9	1.8	1.7	1.6	1.6	40					
42				1.7	1.6	1.6	1.4	1.4	42					
44					1.5	1.4	1.3	1.2	44					
46						1.2	1.1	1.1	46					
48							1	0.9	48					

Configurations

## Load Chart of FJ Configuration

				FJ Configu	uration 1/4				
			Jib 6.1m	n, angle boom t	to jib 30°, rear (	CW 16.5t			
R(m)	22	25	28	31	34	37	40	43	BL(m) R(m)
9	6.9								9
10	6.7	6.8	6.9						10
11	6.5	6.6	6.8	6.8	6.9				11
12	6.3	6.5	6.6	6.7	6.8	6.9	6.9		12
14	6	6.2	6.3	6.4	6.5	6.6	6.7	6.7	14
16	5.7	5.9	6	6.2	6.2	6.4	6.5	6.5	16
18	5.5	5.7	5.8	6	6.1	6.2	6.2	6.3	18
20	5.4	5.5	5.7	5.7	5.7	5.6	5.5	5.5	20
22	5.3	5.1	5.1	5	4.9	4.9	4.8	4.7	22
24	4.7	4.5	4.5	4.4	4.3	4.2	4.1	4.1	24
26	4.1	4	3.9	3.9	3.8	3.7	3.6	3.6	26
28		3.6	3.5	3.4	3.4	3.3	3.2	3.2	28
30			3.1	3.1	3	2.9	2.8	2.8	30
32				2.7	2.7	2.6	2.5	2.4	32
34				2.4	2.4	2.3	2.2	2.2	34
36					2.1	2.1	2	1.9	36
38						1.8	1.7	1.7	38
40							1.5	1.5	40
42								1.3	42
44								1.1	44

Unit: t

## Load Chart of FJ Configuration

				FJ Config	uration 2/4									
	Jib 9.15m, angle boom to jib 30°, rear CW 16.5t													
R(m)	22	25	28	31	34	37	40	43	BL(m) R(m)					
11	5.7	5.8							11					
12	5.5	5.6	5.7	5.8					12					
14	5.2	5.3	5.4	5.5	5.6	5.6	5.7	5.7	14					
16	5	5.1	5.2	5.3	5.4	5.4	5.5	5.5	16					
18	4.8	4.9	5	5.1	5.2	5.2	5.3	5.4	18					
20	4.6	4.7	4.8	4.9	5	5.1	5.1	5.2	20					
22	4.4	4.6	4.7	4.8	4.8	4.9	4.9	4.9	22					
24	4.3	4.4	4.5	4.5	4.4	4.4	4.3	4.2	24					
26	4.2	4.1	4.1	4	3.9	3.8	3.8	3.7	26					
28	3.8	3.7	3.6	3.5	3.5	3.4	3.3	3.3	28					
30		3.3	3.2	3.2	3.1	3	2.9	2.9	30					
32			2.9	2.8	2.8	2.7	2.6	2.6	32					
34			2.6	2.5	2.5	2.4	2.3	2.3	34					
36				2.3	2.2	2.1	2	2	36					
38					2	1.9	1.8	1.8	38					
40						1.7	1.6	1.6	40					
42						1.5	1.4	1.4	42					
44							1.2	1.2	44					
46								1	46					

## Load Chart of FJ Configuration

				FJ Configu	uration 3/4									
	Jib 12.2m, angle boom to jib 30°, rear CW 16.5t													
R(m)	22	25	28	31	34	37	40	43	BL(m) R(m)					
14	4.7	4.8	4.9	4.9					14					
16	4.5	4.6	4.7	4.7	4.8	4.8	4.9	4.9	16					
18	4.3	4.4	4.5	4.5	4.6	4.7	4.7	4.8	18					
20	4.1	4.2	4.3	4.4	4.4	4.5	4.5	4.6	20					
22	4	4	4.2	4.2	4.3	4.4	4.4	4.5	22					
24	3.8	3.9	4	4.1	4.2	4.2	4.3	4.3	24					
26	3.7	3.8	3.9	4	4	4	3.9	3.8	26					
28	3.7	3.7	3.7	3.6	3.6	3.5	3.4	3.4	28					
30	3.5	3.4	3.3	3.2	3.2	3.1	3	3	30					
32	3.2	3	3	2.9	2.9	2.8	2.7	2.6	32					
34		2.7	2.7	2.6	2.6	2.5	2.4	2.3	34					
36			2.4	2.4	2.3	2.2	2.1	2.1	36					
38				2.1	2.1	2	1.9	1.8	38					
40				1.9	1.8	1.8	1.7	1.6	40					
42					1.6	1.6	1.5	1.4	42					
44						1.4	1.3	1.3	44					
46							1.1	1.1	46					
48							1	1	48					

Unit: t

## Load Chart of FJ Configuration

				FJ Configu	uration 4/4									
	Jib 15.25m, angle boom to jib 30°, rear CW 16.5t													
R(m)	22	25	28	31	34	37	40	43	BL(m) R(m)					
16	4.2	4.3	4.3	4.4					16					
18	4	4.1	4.1	4.2	4.2	4.3	4.3	4.3	18					
20	3.8	3.9	4	4	4.1	4.1	4.2	4.2	20					
22	3.7	3.8	3.8	3.9	3.9	4	4	4.1	22					
24	3.5	3.6	3.7	3.7	3.8	3.8	3.9	3.8	24					
26	3.4	3.5	3.6	3.6	3.7	3.7	3.8	3.8	26					
28	3.3	3.4	3.5	3.6	3.6	3.6	3.5	3.5	28					
30	3.2	3.3	3.4	3.3	3.3	3.2	3.1	3.1	30					
32	3.2	3.1	3.1	3	2.9	2.9	2.8	2.7	32					
34	2.9	2.8	2.8	2.7	2.6	2.6	2.5	2.4	34					
36		2.5	2.5	2.4	2.4	2.3	2.2	2.2	36					
38		2.3	2.2	2.2	2.1	2.1	2	1.9	38					
40			2	2	1.9	1.8	1.7	1.7	40					
42				1.8	1.7	1.6	1.6	1.5	42					
44					1.5	1.5	1.4	1.3	44					
46						1.3	1.2	1.2	46					
48						1.1	1.1	1	48					



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