

ZOOMLION

ZOOMLION ZCC1500V CRAWLER CRANE

TECHNICAL SPECIFICATIONS

ZCC1500V/27Y

Zoomlion Heavy Industry Science & Technology Co.,Ltd.

Zoomlion ZCC1500V Crawler Crane

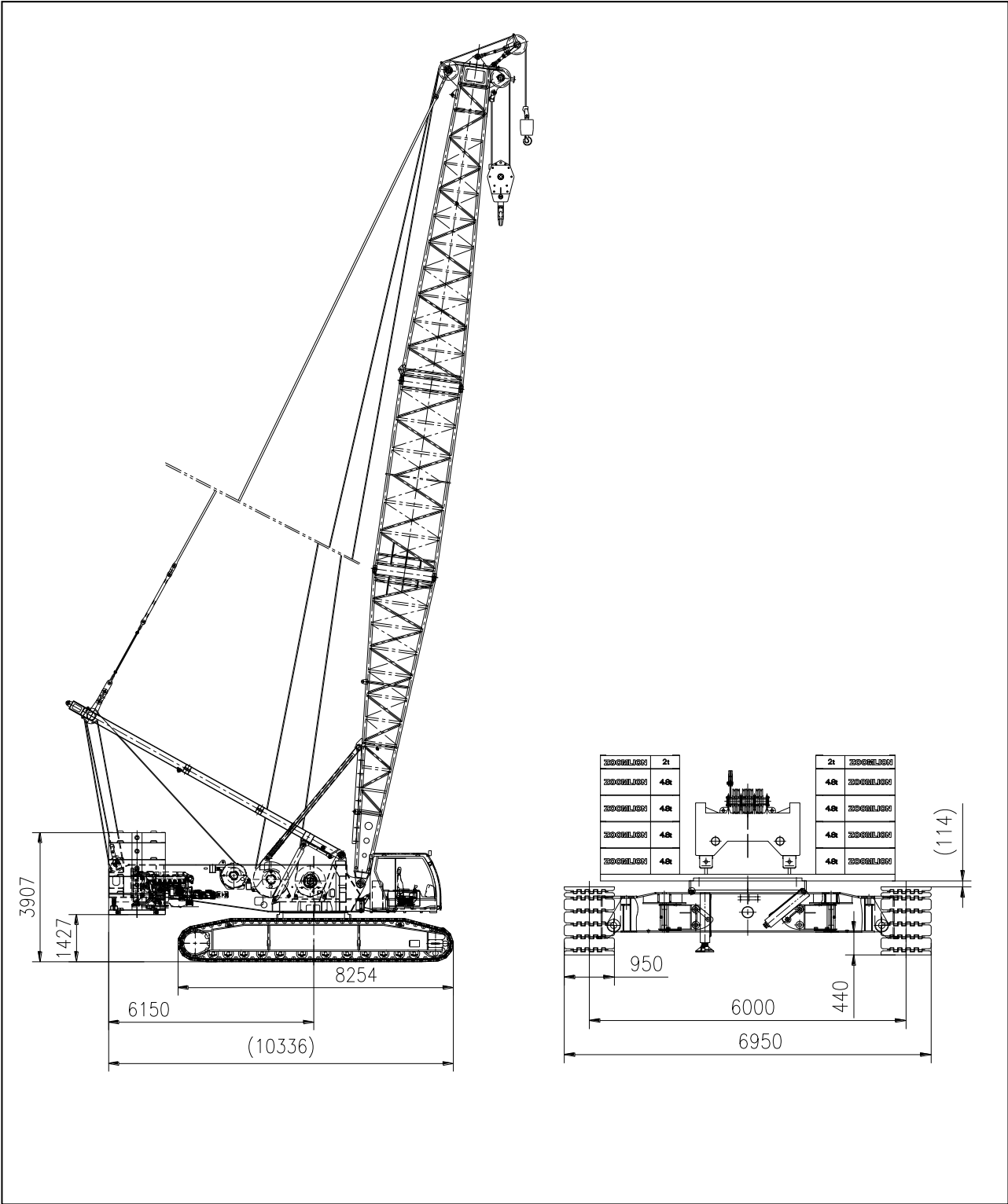
Technical Specifications

ZCC1500V/27Y

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1. Overall dimensions and major technical parameters

1.1. Overall dimensions of the crane



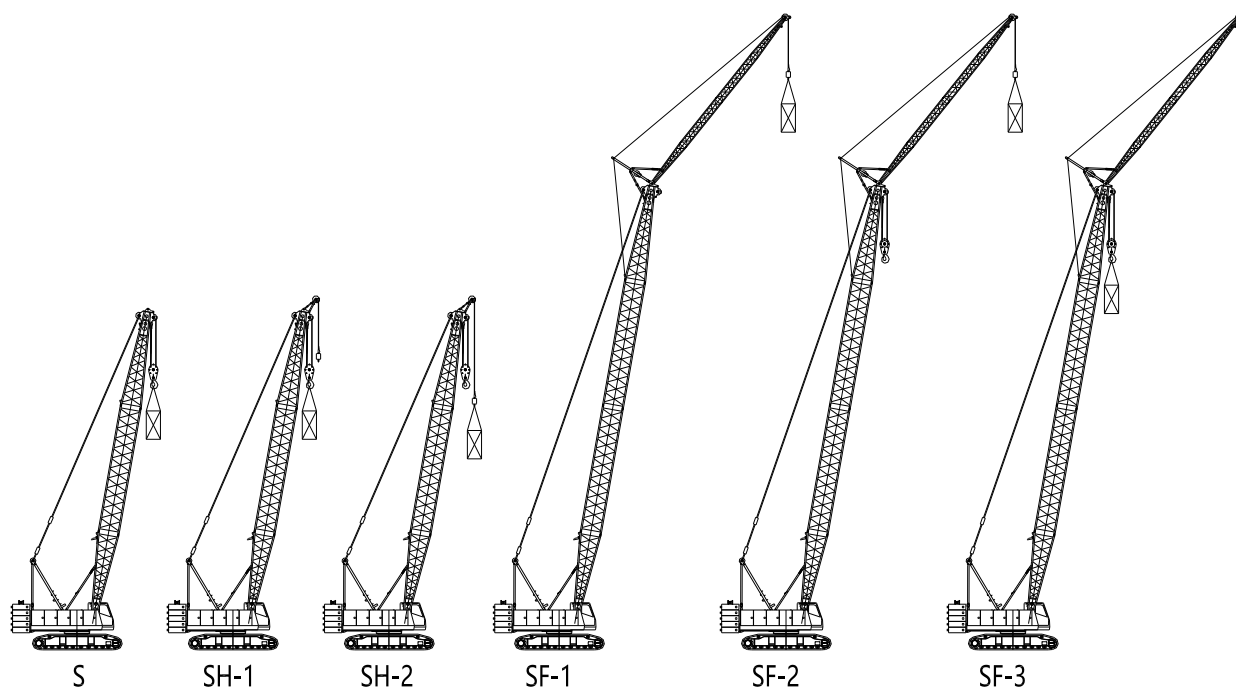
1.2. Major technical parameters

Major technical parameters

Items	Unit	Values	Notes
Max. lifting moment	txm	906.5	
Max. lifting capacity	t	150	
Max. lifting capacity of fixed jib	t	25.2	
Main boom length	m	19~76	
Fixed jib length	m	13~31	
Max. length of main boom + fixed jib	m	64+31	
Fixed jib angle	°	10, 30	
Single rope speed of H1	m/min	0~140	The 6 th layer
Single rope speed of H2	m/min	0~110	The 6 th layer
Single rope speed of derricking winch	m/min	0~66	The 5 th layer
Slewing speed	rpm	0~1.0	
Traveling speed	km/h	0~1.1	
Gradeability	%	30	
Average ground pressure of basic boom operating mode	MPa	0.1	
Dead weight of the crane	t	143	Basic boom with primary hook
Counterweight	t	51.4	
Overall dimensions LxWxH	mm	12460x3000x3270	With A-frame and main boom tilting-back support
Engine	Model	WP10G336E344	
	Rated power/rotational speed	kW/rpm	247/1900
	Max. output torque /rotational speed	Nm/rpm	1550/(1100~1400)
	Emission standard	/	National-III
Distance between two tracks x contact length of track x width of track pad	mm	6000x7205x950	

Note: The value of ground pressure is the mean value of the operating mode with the basic boom. The actual maximum ground pressure is determined according to the actual operating mode.

1.3. Illustrations of operating modes



Code	Operating mode	Boom combination
S	Main boom	19m~76m
SH-1	Main boom + tip boom (primary hook)	19m~76m
SH-2	Main boom + tip boom (auxiliary hook)	19m~76m
SF-1	Main boom + fixed jib (auxiliary hook, without primary hook)	(28m~64m) + (13m~31m)
SF-2	Main boom + fixed jib (auxiliary hook, with primary hook)	(28m~64m) + (13m~31m)
SF-3	Main boom + fixed jib (primary hook)	(28m~64m) + (13m~31m)

1.4. Major technical features

★ Superior lifting performance

Track gauge of 6m; rear counterweight of 51.4t + central ballast of 16t.

Its lifting performance is superior to other products of the same tonnage.

★ Configuration

Weichai classic WP10 engine, with strong power, timely service and low cost for maintenance.

Dual-pump confluence of the main pump helps to improve the maneuverability and reliability of the hydraulic system.

Dual slewing reducers provide stable and powerful slewing movements.

Traveling motor and reducer for 200t provide strong power for traveling with no fear of bumpy roads.

Load moment limiter is equipped with a dual-tension sensor, which helps to improve the measurement accuracy of lifting. The risk of abnormal measurement of a single sensor can be automatically eliminated through the comparison of numerical values on the dual-tension sensor, thus improving the safety of the whole crane.

The ultra-wide operator's cab of 1250mm provides a bright, comfort and large space with broad visions.

The large-volume fuel oil tank (700L) reduces times of oil-refilling.

It adopts the layout of large-sized crawler cranes. The engine is located at the rear end of the slewing table, thus generating lower noise and less vibration to the cab and providing sufficient space for maintenance. It is safe to climb up or down because the crane is equipped with handrails on both sides, platforms of stainless steel and guardrails.

✦ Optimization in transport and dismantling

The maximum weight of the basic machine in transport is 34.2t with a width of 3.0m. There is no need to apply for an over-limit permission since specifications in transport are in conformity with relevant regulations.

Self-mounting cylinders help to complete assembly and dismantling of track carriers and boom sections. The whole crane can be assembled within 6 hours with the help of the mounting cylinders.

A single counterweight plate weighs 4.8t. The assembly can be accomplished by a small auxiliary hoisting equipment.

There are two large tool cabinets at the central part of the central ballast, which is convenient for the storage of slings and maintenance tools.

✦ "Intelligent" equipment management

An app on mobile phone is interconnected with the crane-mounted platform, realizing such functions as GPS positioning, monitoring of engine and lifting operation, monitoring and reminding of abnormality warning, remote diagnosis of fault, monitoring and auto-reminding of maintenance, data inquiry of overloading and normal operation.

2. Technical instructions

2.1. Power unit

Weichai electronic-injection diesel engine: WP10G336E344

Rated power / rotational speed: 247kW/1900r/min

Maximum output torque / rotational speed: 1550Nm/1100~1400r/min

Emission standard: National III (non-road)

Volume of fuel oil tank: 700L (guarantee sufficient working hours)

2.2. Hydraulic system

Hydraulic pump: two plunger pumps of famous brand; energy-saving, stable and reliable; it drives winches and the traveling mechanism; the triple gear pump is used for slewing, auxiliary operations and the dissipation of the hydraulic system.

Control system: a pilot proportional control hydraulic system with a load feedback system; two cross-shaped hydraulic joysticks and a dual foot-operated traveling control valve are used for controlling different executive components.

Actuators: The motor of hoisting winches is a variable plunger pump with large displacement, featuring high speed and high stability.

Volume of ydraulic oil tank: 850L

2.3. Electrical system

DC of 24V, negative ground, two storage batteries of 200AH

The electrical system is composed of power supply, indicating lights, alarm, fan, wiper, load moment limiter, illuminating system, video monitoring system, safety control system, etc. The operator's cab is equipped with an intelligent button panel. Data communication is realized through CAN bus.

The crane is equipped with a global position system (GPS/GPRS).

2.4. Hoisting mechanism

Both the primary and the secondary hoisting winches are driven by an axial hydraulic variable-displacement piston motor through a built-in planetary reducer. Braking of the spring on winch motor is controlled by the balancing valve. The drum with a double-rope groove guarantees that rope of multiple layers will not intertwine together.

	H1	H2
Rated single rope tension	13.5t (the 4 th layer)	13.5t (the 4 th layer)
Wire rope diameter	26mm	26mm
Wire rope length	355m	260m
Single rope speed	140m/min (the 6 th layer)	110m/min (the 6 th layer)

Free-fall hook is optional for H2.

2.5. Derricking mechanism

The derricking winch is driven by an axial piston motor through a built-in planetary reducer and brakes through the spring on the motor end.

Cable drum lock: The winch is locked by ratchet wheel and ratchet pawl.

	Derricking mechanism
Rated single rope tension	99.5kN (the 2 nd layer)
Wire rope diameter	22mm
Wire rope length	255m
Single rope speed	66m/min (the 5 th layer)

2.6. Slewing mechanism

The slewing mechanism is composed of dual hydraulic motors, dual slewing reducers, control valves and a slewing bearing. Small gear of the output shaft rotates around the slewing bearing ring fixed on the chassis so that the slewing table makes slewing movement of 360°.

The slewing mechanism has the function of controllable free-slewing, which starts stably with less impact.

The external gearing three-row roller-type slewing bearing provides stronger bearing capacity so as to guarantee the stability and accuracy of slewing.

The slewing mechanism can be mechanically locked by the locking device at the front end of the slewing table.

2.7. Counterweight

The total weight of rear counterweight is 51.4t. Counterweight plates are piled up and locked by chains. There are two types of counterweight plates: 4.8t×8 (38.4t in total) and 2t×2 (4t in total). The counterweight base weighs 9t.

The central ballast consists of two ballast plates of 8t (16t in total). There is a tool cabinet at the central part of the central ballast, which is convenient for the storage of slings and maintenance tools.

2.8. Operator's cab

The steel structure operator's cab is 1250mm in width with tempered glasses around. It provides broad visions. The roof and the front windows are laminated glasses. Sun shields, an adjustable seat, wipers, a cold/warm air conditioner, various switches and a head lamp are also equipped in the cab.

The cab can be pitched up for 20° through the cab-pitching cylinder controlled by a switch in the cab.

A cold/warm air conditioner; a radio; a color display of 10.4".

Control levers and buttons are designed according to the ergonomics.

The cab can be rotated for 90° horizontally to reduce the transport width.

✪ Armrest boxes

Both armrest boxes are equipped with various kinds of electrical switches and emergency-stop buttons and can be adjusted with the seat.

✪ Control lever and joystick

The cross-shaped pilot hydraulic joystick controls primary and secondary winches, slewing, and boom derricking.

Control levers for traveling (equipped with foot pedal) control traveling and steering of the whole machine.

✪ Air conditioner

Air conditioner, optimized air flue and air vent are standard configurations.

2.9. Traveling mechanism

The traveling mechanism adopts dual motors and dual reducers. Traveling of the two tracks are controlled by the two levers respectively. It is able to make such movements as traveling in a straight line, unilateral steering, differential steering, pivot steering and traveling with a load with high maneuverability and flexibility.

Traveling speed: 0~1.1km/h

Gradeability: 30%

Tensioning of track: The track is tensioned by a jack, which is convenient and reliable.

2.10. Safety devices

The crane is equipped with different types of safety and alarm devices, such as mechanical, electronic and hydraulic devices, that guarantee the safety of the machine.

✪ Load moment limiter

It consists of a moment limiter and a digital LCD. If the lifting moment reaches 90% of the rated moment, the warning light is on and the buzzer sends out an alarm. The crane operation can be cut off automatically if the rated moment is reached, thus prevent an accident caused by overload and guaranteeing the crane's normal operation.

Data displayed on the LCD: 1, load moment ratio; 2, main boom angle; 3, main boom length; 4, working radius; 5, actual load on the hook; 6, permissible lifting capacity; 7, the maximum permissible height; 8, wind speed on boom head.

✪ Limit on hoisting height

Limit switch and limiting weight fixed on boom end are used to prevent excessive hoisting of the hook. When the hook is hoisted to a certain height, the limit switch send out a signal and the electrical system will automatically cut off the hoisting. Besides, the buzzer and the display in the operator's cab send out a sound-light alarm to avoid over-hoisting of the hook.

✪ Limit on main boom angle

When the main boom is derricked up to its maximum angle, the limit switch of the pivot section will be activated, the upward derricking will be cut off, and a sound-light signal will be sent out from the buzzer and the indicator light.

✪ Protective device for over-unwinding of rope

The protective device will send out a signal and cut off the movement of lowering the hook when there are only three circles of rope left on the drum. A sound-light signal will be also sent out from the buzzer and the indicator light in the operator's cab.

✪ Tilting-back support for boom

A tilting-back support, used to avoid backward tilting of the boom, is composed of nested steel and spring.

✪ Slewing locking device

It is used to secure the superstructure and the undercarriage during transport. It must be unlocked during operation.

✧ Mousing on hook

A mousing is used to close off a hook to prevent a load from slipping off.

✧ Anemometer

With the electronic anemometer, real-time wind speed can be presented on the display.

✧ Electronic gradienter, mechanical gradienter

The electronic gradienter shows the levelness of the crane on the display, while the bubble-type mechanical gradienter is fixed on the chassis frame.

✧ Aviation warning light

It is fixed on the top of the boom for warning in the upper air.

✧ Main boom angle indicator

Main boom angle indicator is fixed at the rear lower end of the pivot section. Operator is able to see the elevation angle of the boom clearly from the operator's cab.

✧ Rear-view mirror

One is located on the front left side of the cab and the other is on the handrail of the right hood.

✧ Automatic locking mechanism of ratchet wheel on the derricking winch

It is used to lock the derricking winch when the crane is stopped.

✧ Emergency stop button

Press this button to shut down the engine and cut off all movements in an emergency.

✧ Tri-color warning light

The warning light has three colors, red, yellow, and green. The loading condition of the crane can be displayed simultaneously. Green indicates that the load rate is below 90%; yellow indicates that the load rate ranges between 90% and 100%; red means that the load rate is beyond 100% and the crane is overloaded.

✧ Slewing alarm

It gives out a sound-light alarm during slewing.

✧ Traveling alarm

It gives out a sound-light alarm during traveling.

☛ Monitoring system

Camera and video displayer are optional, through which the real-time working condition of the hoisting winch and the blind area at the rear end of the crane can be monitored.

2.11. Boom sections

☛ Main boom

Main boom length ranges between 19m and 76m. Components of a main boom are: a pivot section of 9.5m, a boom head of 9.5m, intermediate sections of 3m, 6m and 9m, and a tip boom.

Main boom length (m)	Combination of boom sections
19	9.5+9.5
22	9.5+3+9.5
25	9.5+6+9.5
28	9.5+9+9.5
31	9.5+3+9+9.5
34	9.5+6+9+9.5
37	9.5+3+6+9+9.5
40	9.5+3+9×2+9.5
43	9.5+6+9×2+9.5
46	9.5+3+6+9×2+9.5
49	9.5+3+9×3+9.5
52	9.5+6+9×3+9.5
55	9.5+3+6+9×3+9.5
58	9.5+3+9×4+9.5
61	9.5+6+9×4+9.5
64	9.5+3+6+9×4+9.5
67	9.5+3+9×5+9.5
70	9.5+6+9×5+9.5
73	9.5+3+6+9×5+9.5
76	9.5+3×2+6+9×5+9.5

★ Fixed jib

Fixed jib length ranges between 13m and 31m. Components of a fixed jib are: a pivot section of 6m, a jib head of 6.5m and an intermediate section of 6m.

The main boom length ranges between 28m and 64m if a fixed jib is assembled on.

Fixed jib length (m)	Combination of jib sections
13	6.5+6.5
19	6.5+6+6.5
25	6.5+6×2+6.5
31	6.5+6×3+6.5

2.12. Load hook

Four types of load hooks are available.

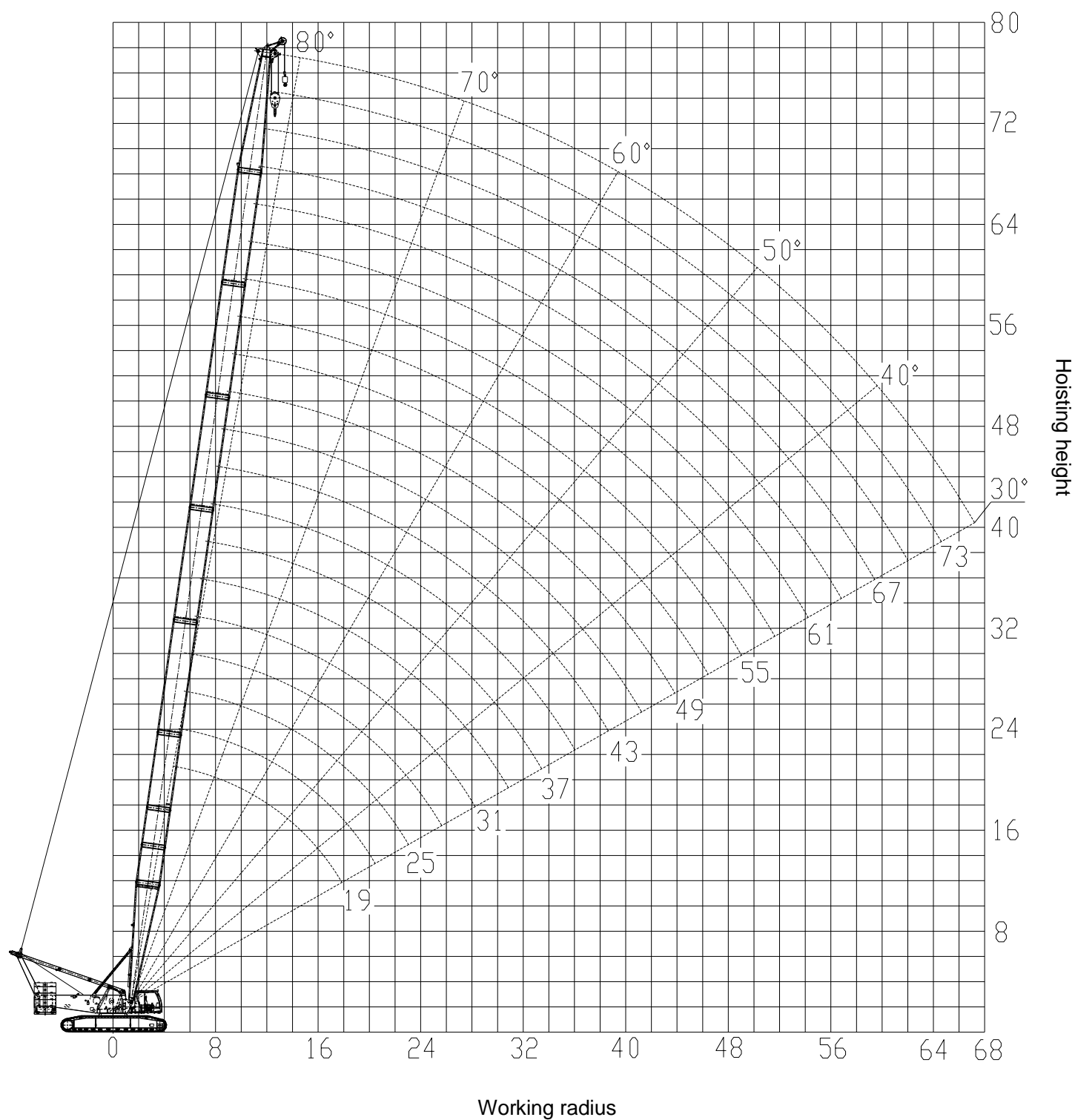
Specification of hook	Lifting capacity (Kg)	Number of pulleys
160 t	2340	7
80 t	1710	3
30 t	1090	1
12.5 t	460	0

3. Working radius and lifting capacity charts

3.1. Main boom operating mode

Curves of hoisting height (S)

Unit: m



Lifting capacity chart (S)

Unit: t

Radius (m)	Main boom length (m)																				Radius (m)	
	19	22	25	28	31	34	37	40	43	46	49	52	55	58	61	64	67	70	73	76		
5	150.0																				5	
6	145.0	145.0	135.0																		6	
7	129.5	126.5	118.0	114.0	110.0	104.0															7	
8	104.0	103.0	101.0	97.6	94.7	91.8	89.0	86.3													8	
9	86.1	86.1	86.2	84.9	82.8	80.6	78.4	76.3	74.3	70.5	67.2										9	
10	73.3	73.3	73.4	73.3	72.7	71.7	70.0	68.3	66.6	65.0	63.5	58.2	55.4								10	
12	56.3	56.3	56.3	56.3	56.3	56.2	56.1	55.3	54.7	53.8	52.7	51.5	50.4	48.1	46.9	43.9	39.7	36.5			12	
14	45.5	45.5	45.5	45.4	45.4	45.3	45.3	45.1	45.1	44.6	44.1	43.5	43.0	42.2	40.5	39.2	37.2	35.1	33.6	30.4	14	
16	37.9	38.0	38.0	37.9	37.9	37.8	37.7	37.6	37.6	37.4	37.3	37.0	36.5	36.0	35.6	35.1	33.9	32.6	31.9	29.3	16	
18	32.4	32.5	32.5	32.4	32.4	32.3	32.2	32.1	32.0	31.9	31.8	31.6	31.6	31.2	30.8	30.4	30.0	29.4	28.7	27.4	18	
20		28.2	28.2	28.2	28.2	28.1	28.0	27.9	27.8	27.7	27.5	27.4	27.3	27.2	27.0	26.7	26.3	25.9	25.4	24.8	20	
22			24.9	24.8	24.9	24.8	24.7	24.5	24.5	24.3	24.2	24.1	24.0	23.8	23.7	23.5	23.3	23.0	22.6	22.1	22	
24				22.1	22.2	22.0	22.0	21.8	21.8	21.6	21.5	21.3	21.3	21.1	21.0	20.8	20.7	20.5	20.2	19.8	24	
26				19.9	19.9	19.8	19.7	19.6	19.5	19.4	19.3	19.1	19.0	18.9	18.7	18.6	18.5	18.3	18.2	17.9	26	
28					18.0	17.9	17.8	17.7	17.7	17.5	17.4	17.2	17.1	17.0	16.8	16.7	16.6	16.4	16.3	16.1	28	
30						16.3	16.2	16.1	16.0	15.9	15.8	15.6	15.5	15.4	15.2	15.1	15.0	14.8	14.7	14.5	30	
32							14.8	14.7	14.7	14.5	14.4	14.2	14.1	14.0	13.8	13.7	13.6	13.4	13.3	13.1	32	
34								13.5	13.4	13.3	13.2	13.0	12.9	12.8	12.6	12.5	12.4	12.2	12.1	11.9	34	
36								12.4	12.4	12.2	12.1	12.0	11.9	11.7	11.6	11.4	11.3	11.1	11.0	10.8	36	
38									11.4	11.3	11.2	11.0	10.9	10.8	10.6	10.5	10.4	10.2	10.1	9.9	38	
40										10.4	10.3	10.2	10.1	9.9	9.8	9.6	9.5	9.3	9.2	9.0	40	
42											9.6	9.4	9.3	9.2	9.0	8.9	8.8	8.6	8.4	8.3	42	
44												8.9	8.7	8.6	8.5	8.3	8.2	8.1	7.9	7.8	7.6	44
46													8.1	8.0	7.9	7.7	7.6	7.5	7.3	7.1	7.0	46

Radius (m)	Main boom length (m)																				Radius (m)
	19	22	25	28	31	34	37	40	43	46	49	52	55	58	61	64	67	70	73	76	
48													7.4	7.3	7.2	7.0	6.9	6.7	6.6	6.4	48
50														6.8	6.6	6.5	6.4	6.2	6.1	5.9	50
52														6.3	6.2	6.0	5.9	5.7	5.6	5.4	52
54															5.7	5.5	5.5	5.3	5.1	5.0	54
56																5.1	5.0	4.9	4.7	4.6	56
58																	4.7	4.5	4.4	4.2	58
60																		4.1	4.0	3.8	60
62																		3.8	3.7	3.5	62
64																			3.4	3.2	64
66																				2.9	66
Reeving	12	12	11	10	9	8	7	7	6	6	5	5	5	4	4	4	3	3	3	3	Reeving

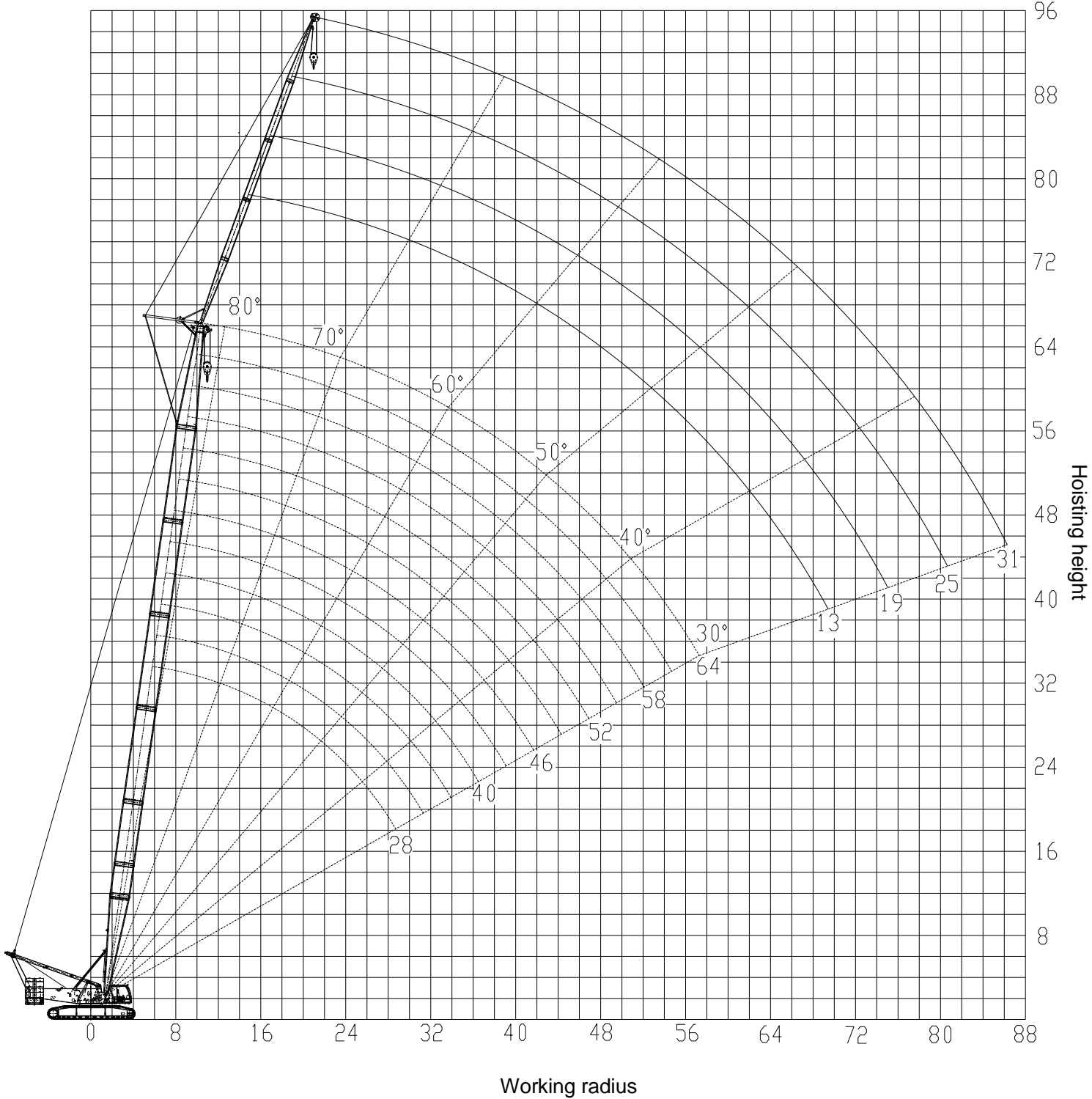
Notes:

1. For tip boom operating mode, the lifting capacity is the main boom lifting capacity of the same radius, which shall not exceed 13.5t.
2. The main boom and the tip boom cannot be used simultaneously if a tip boom is assembled on.
3. Lifting capacities of the main boom with a tip boom on are the same with those of a main boom without a tip boom.

3.2. Operating mode of main boom + fixed jib

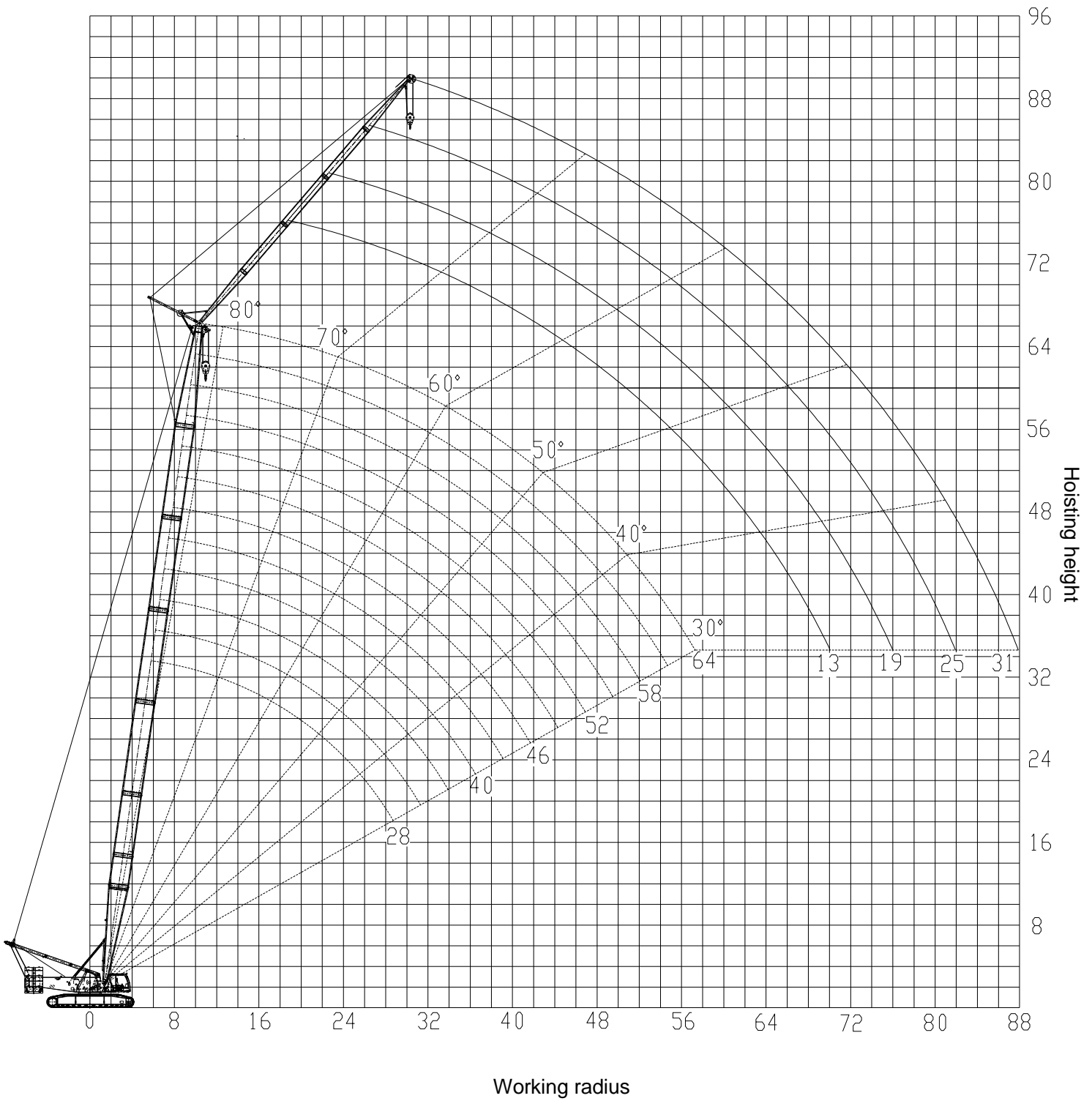
Curves of hoisting height (SF-1), 10°

Unit: m



Curves of hoisting height (SF-1), 30°

Unit: m



Lifting capacity chart (SF-1, 1/8)

Note:

Data in the table below are provided when the main boom is operated with a hook.

Main boom length (m)	Unit: t													Main boom length (m)
	28	31	34	37	40	43	46	49	52	55	58	61	64	
Radius (m)	Fixed jib length: 13m; included angle between main boom and fixed jib : 10°													Radius (m)
10	25.2	25.1												10
12	23.6	24	23.9	24	23.3	22.9	23.9							12
14	23.4	24	23.9	23.3	22.8	22.9	23.9	24.3	22.9	23.2	24.2	23.9		14
16	21.9	23.3	22.7	23.3	21.7	22.9	23.9	24.2	22.8	22.4	24.2	23.9	24.1	16
18	21.6	21.2	22.7	23.3	21.7	22.1	23.6	23.9	22.3	22.4	22.1	23.8	23.1	18
20	21.6	21.2	22.7	22.5	21.7	22.1	23.6	23.9	22.3	22.4	22.1	21.5	21.7	20
22	20.7	20.5	20.6	22.5	21.7	21.1	21.7	22.3	22.3	21.2	22.1	21.3	21.7	22
24	20.7	20.5	20.6	22	21	20.7	21.7	21.6	20.7	21.2	20.7	20.9	20.6	24
26	19.5	19.7	19.8	19.8	19.7	19.6	19.4	19.3	19.1	19	18.9	18.7	18.6	26
28	18.3	18.2	18.1	17.9	17.8	17.7	17.5	17.4	17.2	17.1	16.9	16.8	16.7	28
30	16.7	16.6	16.4	16.3	16.1	16	15.9	15.8	15.6	15.5	15.3	15.2	15	30
32	15.3	15.2	15	14.9	14.7	14.6	14.5	14.3	14.2	14.1	13.9	13.8	13.6	32
34	14	14	13.8	13.7	13.5	13.4	13.3	13.1	13	12.8	12.7	12.5	12.4	34
36	13	12.9	12.7	12.6	12.4	12.3	12.2	12	11.9	11.8	11.6	11.5	11.3	36
38	12	11.9	11.8	11.7	11.5	11.4	11.2	11.1	10.9	10.8	10.6	10.5	10.3	38
40		11.1	10.9	10.8	10.6	10.5	10.4	10.2	10.1	9.9	9.8	9.6	9.5	40
42			10.1	10	9.9	9.8	9.6	9.5	9.3	9.2	9	8.9	8.7	42
44				9.3	9.2	9.1	8.9	8.8	8.6	8.5	8.3	8.2	8	44
46				8.7	8.5	8.4	8.3	8.1	8	7.8	7.7	7.5	7.4	46
48					7.9	7.8	7.7	7.6	7.4	7.3	7.1	7	6.8	48
50						7.3	7.2	7	6.9	6.7	6.6	6.4	6.3	50
52							6.7	6.5	6.4	6.3	6.1	6	5.8	52
54								6.1	5.9	5.8	5.6	5.5	5.3	54
56								5.7	5.5	5.4	5.2	5.1	4.9	56
58									5.1	5	4.8	4.7	4.5	58
60										4.6	4.5	4.3	4.2	60
62											4.1	4	3.8	62
64											3.8	3.7	3.5	64
66												3.4	3.2	66
68													2.9	68
Reeving	2	2	2	2	2	2	2	2	2	2	2	2	2	Reeving

Lifting capacity chart (SF-1, 2/8)

Unit: t

Main boom length (m)	28	31	34	37	40	43	46	49	52	55	58	61	64	Main boom length (m)
Radius (m)	Fixed jib length: 19m; included angle between main boom and fixed jib : 10°													Radius (m)
12	16	16.3												12
14	15.6	15.7	16.1	17.2	16.9	16.1	16.2							14
16	15.6	15.7	15.3	16.9	16.9	16.1	16	17.3	16.3	16.5	15.7	16.2		16
18	14.9	15.6	15.3	16.2	16.8	15.7	15.5	16.3	16.1	16.5	15.7	16.2	15.9	18
20	14.5	14.7	15.3	15	15.9	15.1	14.7	15.2	16.1	16.5	15.7	15.3	15.4	20
22	14.5	14.7	15.3	15	14.7	15.1	14.7	15.2	14.9	14.6	15.7	15.3	14.8	22
24	14	14.2	14.2	14.9	14.7	14.6	14.3	14.3	14.9	14.6	15.7	15.3	14.8	24
26	13.8	14.2	14	13.9	14.5	14.5	14.3	14.3	14.6	14.6	15.1	15.3	14.8	26
28	13.8	13.3	14	13.8	13.5	13.9	13.9	13.8	13.9	14.4	15.1	15.3	14.8	28
30	13.7	13.3	14	13.8	13.5	13.9	13.9	13.8	13.9	14.4	15.1	14.8	14.8	30
32	13.4	13.3	13.9	13	13.5	13.9	13.4	13.5	13.9	14.3	14.1	13.8	13.9	32
34	12.6	12.9	12.8	13	12.9	13.6	13.1	13.3	13.2	13.1	12.9	12.8	12.6	34
36	12.1	12.9	12.8	12.6	12.7	12.5	12.4	12.2	12.1	12	11.8	11.7	11.5	36
38	12.1	12.1	12	11.9	11.7	11.6	11.4	11.3	11.1	11	10.9	10.7	10.6	38
40	11.4	11.3	11.1	11	10.8	10.7	10.6	10.4	10.3	10.1	10	9.8	9.7	40
42	10.6	10.5	10.4	10.2	10.1	10	9.8	9.7	9.5	9.4	9.2	9.1	8.9	42
44	9.9	9.8	9.7	9.5	9.4	9.3	9.1	9	8.8	8.7	8.5	8.4	8.2	44
46		9.2	9	8.9	8.7	8.6	8.5	8.3	8.2	8	7.9	7.7	7.6	46
48			8.4	8.3	8.2	8	7.9	7.7	7.6	7.5	7.3	7.2	7	48
50				7.8	7.6	7.5	7.4	7.2	7.1	6.9	6.8	6.6	6.5	50
52					7.1	7	6.9	6.7	6.6	6.4	6.3	6.1	6	52
54					6.7	6.6	6.4	6.3	6.1	6	5.8	5.7	5.5	54
56						6.1	6	5.8	5.7	5.6	5.4	5.3	5.1	56
58							5.6	5.5	5.3	5.2	5	4.9	4.7	58
60								5.1	4.9	4.8	4.7	4.5	4.3	60
62									4.7	4.6	4.5	4.3	4.2	62
64										4.3	4.1	4	3.8	64
66											3.8	3.7	3.5	66
68												3.4	3.3	68
70													3	70
72													2.7	72
74														74
Reeving	2	2	2	2	2	2	2	2	2	2	2	2	2	Reeving

Lifting capacity chart (SF-1, 3/8)

Unit: t

Main boom length (m)	28	31	34	37	40	43	46	49	52	55	58	61	64	Main boom length (m)
Radius (m)	Fixed jib length: 25m; included angle between main boom and fixed jib : 10°													Radius (m)
14	10.5	10.5	10.9											14
16	10	10.2	10.8	10.8	10.4	10.5	10.3	10.8						16
18	10	9.8	10.5	10.6	10	10	10.3	10.8	10.6	10	10.4	10.4		18
20	9.3	9.8	10	10.1	9.6	10	9.8	10.8	10.1	10	10.1	10.4	9.9	20
22	9.3	9.2	9.4	9.5	9.6	9.7	9.8	10.6	9.6	10	9.7	9.8	9.9	22
24	9.1	8.9	9.3	9.5	9.2	9.7	9.8	10.2	9.6	10	9.7	9.8	9.9	24
26	8.8	8.9	9	9.5	9.1	9.7	9.5	9.7	9.2	9.2	9.7	9.8	9.8	26
28	8.8	8.9	8.5	9.2	8.9	9.4	9.1	9	9.2	9.2	9.1	9.8	9.8	28
30	8.6	8.5	8.4	8.5	8.9	8.9	9.1	9	9.2	9.2	9.1	9.8	9.6	30
32	7.9	8.4	8.4	8.4	8.4	8.9	8.7	9	9	9.1	9.1	9.5	9.6	32
34	7.9	7.8	8	8.4	8.2	8.9	8.5	9	8.6	9.1	9.1	9	8.9	34
36	7.8	7.8	8	8	8.2	8.5	8.2	8.6	8.6	8.5	9.1	9	8.9	36
38	7.6	7.7	7.9	8	8.2	8.5	8.2	8.6	8.6	8.5	9	8.7	8.8	38
40	7.4	7.4	7.7	8	7.8	8.3	8.2	8.6	8	8.2	8.4	8.7	8.4	40
42	7.2	7.4	7.6	7.8	7.6	7.8	7.9	8.4	8	8.2	8.4	8.7	8.4	42
44	7	7.2	7.3	7.3	7.6	7.8	7.9	7.7	7.9	8.2	8.4	8.4	8.4	44
46	6.9	6.9	7.2	7.3	7.6	7.5	7.6	7.7	7.8	8.2	8.1	7.9	7.8	46
48	6.7	6.9	7.1	7.2	7.3	7.5	7.5	7.7	7.7	7.6	7.5	7.3	7.2	48
50		6.8	6.9	7.1	7.2	7.3	7.5	7.4	7.2	7.1	6.9	6.8	6.6	50
52		6.7	6.8	6.9	7.1	7.2	7	6.9	6.7	6.6	6.4	6.3	6.1	52
54			6.7	6.8	6.8	6.7	6.6	6.4	6.3	6.1	6	5.8	5.7	54
56				6.6	6.4	6.3	6.1	6	5.9	5.7	5.6	5.4	5.3	56
58					6	5.9	5.8	5.6	5.5	5.3	5.2	5	4.9	58
60					5.6	5.5	5.4	5.3	5.1	5	4.8	4.7	4.5	60
62						5.2	5	4.9	4.8	4.6	4.5	4.3	4.2	62
64							4.7	4.6	4.4	4.3	4.1	4	3.8	64
66								4.3	4.1	4	3.8	3.7	3.5	66
68									3.8	3.7	3.6	3.4	3.3	68
70									3.6	3.5	3.3	3.2	3	70
72										3.2	3	2.9	2.7	72
74											2.8	2.7	2.5	74
76												2.4	2.3	76
78												2.2	2.1	78
80													1.8	80
Reeving	1	1	1	1	1	1	1	1	1	1	1	1	1	Reeving

Lifting capacity chart (SF-1, 4/8)

Unit: t

Main boom length (m)	28	31	34	37	40	43	46	49	52	55	58	61	64	Main boom length (m)
Radius (m)	Fixed jib length: 31m; included angle between main boom and fixed jib : 10°													Radius (m)
16	7.1	7.4	7.5											16
18	6.9	7.2	7.2	7.3	7.1	7.7	7.3	7.5						18
20	6.9	6.9	6.9	7.2	7.1	6.9	7	7.5	7.3	7.4	7.6	7.5	7.3	20
22	6.6	6.9	6.9	6.7	7.1	6.7	7	6.9	7	6.9	7.3	7.5	7.3	22
24	6.5	6.5	6.5	6.7	7	6.7	6.8	6.9	6.7	6.9	7	6.8	7.3	24
26	6.3	6.4	6.4	6.6	6.8	6.7	6.8	6.7	6.7	6.9	6.6	6.8	6.8	26
28	5.9	6.1	6.2	6.3	6.5	6.3	6.3	6.6	6.5	6.8	6.6	6.7	6.8	28
30	5.8	5.9	6.1	6	6.1	6.3	6.2	6.3	6.5	6.7	6.4	6.6	6.5	30
32	5.5	5.7	5.8	6	6.1	6.2	6.1	6.3	6.5	6.4	6.4	6.4	6.5	32
34	5.3	5.5	5.6	5.7	5.9	6	6.1	6.1	6.3	6.1	6.4	6.4	6.5	34
36	5.1	5.3	5.4	5.5	5.7	5.8	5.9	6	6.1	6.1	6.3	6.4	6.5	36
38	5	5.1	5.2	5.3	5.5	5.6	5.7	5.8	5.9	5.9	6.1	6	6.3	38
40	4.8	4.9	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.9	6	6	6.1	40
42	4.6	4.8	4.9	5	5.1	5.3	5.4	5.4	5.6	5.7	5.8	5.9	6	42
44	4.5	4.6	4.8	4.9	5	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.7	44
46	4.4	4.5	4.6	4.8	4.9	5	5.1	5.2	5.3	5.4	5.5	5.6	5.7	46
48	4.3	4.4	4.5	4.6	4.7	4.8	5	5.1	5.1	5.3	5.3	5.4	5.5	48
50	4.1	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5	5.1	5.2	5.3	5.4	50
52	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5	5.1	5.2	5.3	52
54	4	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5	5.1	5.1	54
56		4	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5	5.1	56
58			4	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	4.9	58
60			3.9	4	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.6	60
62				3.9	4	4.1	4.2	4.3	4.4	4.5	4.6	4.4	4.3	62
64					4	4.1	4.1	4.2	4.3	4.4	4.3	4.1	4	64
66						4	4.1	4.1	4.2	4.1	4	3.8	3.7	66
68						3.9	4	4.1	4	3.8	3.7	3.5	3.4	68
70							3.9	3.8	3.7	3.6	3.4	3.3	3.1	70
72								3.6	3.4	3.3	3.2	3	2.8	72
74									3.2	3.1	2.9	2.8	2.6	74
76									3	2.8	2.7	2.5	2.4	76
78										2.6	2.5	2.3	2.2	78
80											2.3	2.1	2	80
82												1.9	1.8	82
84													1.6	84
86													1.4	86
Reeving	1	1	1	1	1	1	1	1	1	1	1	1	1	Reeving

Lifting capacity chart (SF-1, 5/8)

Unit: t

Main boom length (m)	28	31	34	37	40	43	46	49	52	55	58	61	64	Main boom length (m)
Radius (m)	Fixed jib length: 13m; included angle between main boom and fixed jib : 30°													Radius (m)
14	20	21.2												14
16	20	21.1	20	19.8	21.1	21.6	20.1							16
18	19.3	19.8	20	19.8	20.8	19.2	20.1	20.4	19.4	22	21.8	19.8		18
20	19.3	19.5	19.1	19.7	19.5	19.2	19.2	20.1	18.9	19.3	21.8	19	20.8	20
22	19.3	19.5	19.1	19.7	19.5	19.2	19.2	20.1	18.9	19.3	21.7	19	20.1	22
24	18.9	18.6	19.1	18.6	19.5	19.2	19.2	20.1	18.9	19.3	20.7	19	20.1	24
26	18.6	18.6	19.1	18.6	19.5	19.2	19.2	19	18.5	18.4	19.1	19	19.3	26
28	18.6	18.5	18.4	18.3	18.2	18.1	18	17.9	17.8	17.7	17.6	17.5	17.3	28
30	16.9	16.9	16.8	16.7	16.5	16.4	16.3	16.2	16.1	16	15.9	15.8	15.6	30
32	15.5	15.4	15.3	15.2	15.1	15	14.9	14.8	14.6	14.5	14.4	14.3	14.2	32
34	14.2	14.2	14.1	14	13.8	13.7	13.6	13.5	13.4	13.3	13.1	13	12.9	34
36	13.1	13	12.9	12.8	12.7	12.6	12.5	12.4	12.3	12.1	12	11.9	11.8	36
38	12.1	12	11.9	11.8	11.7	11.6	11.5	11.4	11.3	11.1	11	10.9	10.8	38
40		11.1	11	11	10.8	10.7	10.6	10.5	10.4	10.3	10.1	10	9.9	40
42			10.2	10.1	10	9.9	9.8	9.7	9.6	9.5	9.3	9.2	9.1	42
44			9.5	9.4	9.3	9.2	9.1	9	8.8	8.7	8.6	8.5	8.3	44
46				8.7	8.6	8.6	8.4	8.3	8.2	8.1	7.9	7.8	7.7	46
48					8	7.9	7.8	7.7	7.6	7.5	7.3	7.2	7.1	48
50						7.4	7.3	7.2	7	6.9	6.8	6.7	6.5	50
52							6.9	6.7	6.6	6.5	6.4	6.3	6.2	52
54								6.3	6.2	6	5.9	5.8	5.5	54
56									5.7	5.6	5.5	5.4	5.2	56
58										5.2	5.1	5	4.8	58
60											4.7	4.6	4.4	60
62												4.3	4.2	62
64													3.9	64
66														66
68														68
70														70
Reeving	2	2	2	2	2	2	2	2	2	2	2	2	2	Reeving

Lifting capacity chart (SF-1, 6/8)

Unit: t

Main boom length (m)	28	31	34	37	40	43	46	49	52	55	58	61	64	Main boom length (m)
Radius (m)	Fixed jib length: 19m; included angle between main boom and fixed jib : 30°													Radius (m)
18	12	12	12.3											18
20	11.8	12	12.3	11.9	12.1	11.9	12.5	12.4						20
22	11.8	11.9	11.5	11.9	11.9	11.9	12.4	12.3	13.1	12.2	12.6	13.2		22
24	11.6	11.6	11.5	11.9	11.9	11.5	12.1	11.8	12.3	12	12.6	12.9	11.7	24
26	11.3	11.6	11.5	11.9	11.4	11.5	11.4	11.8	11.3	12	12.6	12.2	11.7	26
28	11.1	11.1	11.5	11.9	11.4	11.5	11.4	11.5	11.3	12	12.3	11.3	11.2	28
30	10.8	11.1	11.2	11.9	11.4	11.5	11.4	11.5	11.3	12	11.7	11.3	11.2	30
32	10.8	11	11.2	11.9	11.2	11.5	11.1	11.2	11.3	11.6	11.7	11.3	11.2	32
34	10.7	11	11.2	11.1	11.2	11.5	11.1	11.2	11.3	11.6	11.2	11.3	11.2	34
36	10.7	10.8	11.1	11.1	10.9	10.9	11	11.2	11.3	10.9	11.2	11.3	11.2	36
38	10.6	10.6	10.7	10.9	10.6	10.9	11	11.2	11.3	10.9	10.8	11.2	11.2	38
40	10.6	10.6	10.6	10.9	10.6	10.9	10.8	10.9	10.8	10.6	10.5	10.4	10.3	40
42	10.6	10.6	10.6	10.5	10.4	10.3	10.2	10.1	9.9	9.8	9.7	9.6	9.5	42
44	10	10	9.9	9.8	9.6	9.6	9.4	9.3	9.2	9.1	9	8.9	8.7	44
46		9.3	9.2	9.1	9	8.9	8.8	8.7	8.5	8.4	8.3	8.2	8	46
48			8.6	8.5	8.4	8.3	8.2	8	7.9	7.8	7.7	7.6	7.4	48
50			8	7.9	7.8	7.7	7.6	7.5	7.4	7.2	7.1	7	6.9	50
52				7.4	7.3	7.2	7.1	7	6.8	6.7	6.6	6.5	6.3	52
54					6.8	6.7	6.6	6.5	6.3	6.2	6.1	6	5.9	54
56						6.2	6.1	6	5.9	5.8	5.7	5.5	5.4	56
58						5.8	5.7	5.6	5.5	5.4	5.2	5.1	5	58
60							5.3	5.2	5.1	5	4.9	4.7	4.6	60
62								4.8	4.7	4.6	4.5	4.4	4.2	62
64									4.4	4.3	4.1	4	3.9	64
66										3.9	3.8	3.7	3.6	66
68										3.6	3.5	3.4	3.3	68
70											3.2	3.1	3	70
72												2.8	2.7	72
74													2.4	74
76													2.2	76
Reeving	1	1	1	1	1	1	1	1	1	1	1	1	1	Reeving

Lifting capacity chart (SF-1, 7/8)

Unit: t

Main boom length (m)	28	31	34	37	40	43	46	49	52	55	58	61	64	Main boom length (m)
Radius (m)	Fixed jib length: 25m; included angle between main boom and fixed jib : 30°													Radius (m)
22	8.3	8.1	8.1	8.5										22
24	7.9	8	8.1	8.1	8.2	8.2	8	8.6						24
26	7.8	7.7	8.1	8.1	8.2	8.1	8	7.9	8	7.9	8.3	8	8.6	26
28	7.7	7.7	7.9	8	7.7	8.1	8	7.8	7.7	7.9	8.3	8	7.9	28
30	7.5	7.4	7.7	7.8	7.6	7.9	8	7.8	7.7	7.9	8.2	7.8	7.9	30
32	7.3	7.3	7.5	7.6	7.6	7.7	7.7	7.8	7.6	7.6	8	7.8	7.8	32
34	7.2	7.3	7.4	7.4	7.5	7.6	7.7	7.8	7.6	7.4	7.6	7.8	7.6	34
36	7	7.1	7.2	7.3	7.4	7.4	7.5	7.3	7.5	7.4	7.6	7.4	7.6	36
38	6.9	6.9	6.9	7.2	7.2	7.3	7.4	7.3	7.2	7.4	7.2	7.3	7.6	38
40	6.8	6.9	6.9	7	7.1	7.2	7.3	7.2	7.2	7.4	7.2	7.3	7.6	40
42	6.7	6.8	6.8	6.9	6.9	7.1	7.2	7.2	7.2	7.3	7.2	7.3	7.2	42
44	6.6	6.7	6.8	6.7	6.9	7	6.9	7.1	7.1	7.2	7.2	7.3	7.2	44
46	6.6	6.6	6.7	6.7	6.8	6.9	6.9	6.8	7.1	7.2	7.2	7.3	7.2	46
48	6.6	6.6	6.6	6.7	6.7	6.7	6.9	6.8	7	7.1	7.1	7.2	7.2	48
50	6.6	6.6	6.6	6.6	6.7	6.7	6.8	6.8	6.9	6.9	6.9	6.8	7.2	50
52		6.6	6.6	6.6	6.6	6.7	6.7	6.8	6.8	6.8	6.9	6.8	6.7	52
54			6.6	6.6	6.6	6.6	6.7	6.6	6.6	6.5	6.4	6.3	6.2	54
56			6.6	6.6	6.6	6.5	6.4	6.3	6.2	6.1	6	5.8	5.7	56
58				6.3	6.2	6.1	6	5.9	5.8	5.7	5.5	5.4	5.3	58
60					5.8	5.7	5.6	5.5	5.4	5.3	5.1	5	4.9	60
62						5.3	5.2	5.1	5	4.9	4.8	4.7	4.5	62
64						4.9	4.8	4.8	4.6	4.5	4.4	4.3	4.2	64
66							4.5	4.4	4.3	4.2	4.1	4	3.8	66
68								4.1	4	3.9	3.8	3.7	3.5	68
70									3.7	3.6	3.5	3.4	3.2	70
72										3.3	3.2	3.1	3	72
74										3	2.9	2.8	2.7	74
76											2.7	2.6	2.4	76
78												2.3	2.2	78
80													2	80
82													1.7	82
Reeving	1	1	1	1	1	1	1	1	1	1	1	1	1	Reeving

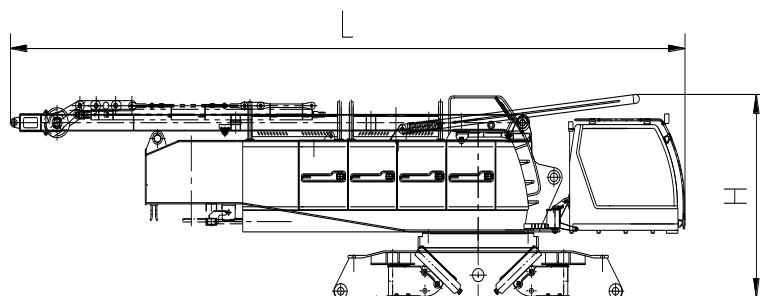
Lifting capacity chart (SF-1, 8/8)

Unit: t

Main boom length (m)	28	31	34	37	40	43	46	49	52	55	58	61	64	Main boom length (m)
Radius (m)	Fixed jib length: 31m; included angle between main boom and fixed jib : 30°													Radius (m)
26	5.2	5.3	5.3	5.3										26
28	5	5.1	5.1	5.2	5.2	5.2	5.3	5.3	5.3					28
30	4.9	4.9	5	5	5.1	5.1	5.1	5.2	5.2	5.2	5.3	5.3	5.3	30
32	4.7	4.8	4.8	4.9	4.9	5	5	5	5.1	5.1	5.2	5.2	5.2	32
34	4.6	4.6	4.7	4.8	4.8	4.9	4.9	4.9	5	5	5	5.1	5.1	34
36	4.5	4.5	4.6	4.6	4.7	4.8	4.8	4.8	4.9	4.9	4.9	5	5	36
38	4.4	4.4	4.5	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.9	4.9	4.9	38
40	4.3	4.3	4.4	4.4	4.5	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.8	40
42	4.2	4.2	4.3	4.3	4.4	4.5	4.5	4.5	4.6	4.6	4.7	4.7	4.8	42
44	4.1	4.1	4.2	4.3	4.3	4.4	4.4	4.5	4.5	4.5	4.6	4.6	4.6	44
46	4	4.1	4.1	4.2	4.2	4.3	4.3	4.4	4.4	4.5	4.5	4.6	4.6	46
48	3.9	4	4.1	4.1	4.2	4.2	4.3	4.3	4.3	4.4	4.4	4.5	4.5	48
50	3.9	3.9	4	4.1	4.1	4.1	4.2	4.2	4.3	4.3	4.4	4.4	4.5	50
52	3.9	3.9	3.9	4	4	4.1	4.1	4.2	4.2	4.3	4.3	4.3	4.4	52
54	3.8	3.9	3.9	3.9	4	4	4.1	4.1	4.1	4.2	4.2	4.3	4.3	54
56	3.8	3.8	3.9	3.9	3.9	4	4	4.1	4.1	4.1	4.2	4.2	4.3	56
58		3.8	3.8	3.9	3.9	3.9	4	4	4.1	4.1	4.1	4.2	4.2	58
60			3.8	3.8	3.9	3.9	3.9	4	4	4.1	4.1	4.1	4.1	60
62			3.8	3.8	3.8	3.9	3.9	3.9	4	4	4	4.1	4.1	62
64				3.8	3.8	3.8	3.9	3.9	3.9	4	4	4	4.1	64
66					3.8	3.8	3.8	3.9	3.9	3.9	3.9	4	4	66
68						3.8	3.8	3.8	3.9	3.9	3.9	3.9	3.8	68
70						3.8	3.8	3.8	3.9	3.8	3.7	3.6	3.5	70
72							3.8	3.7	3.6	3.5	3.4	3.3	3.2	72
74								3.4	3.3	3.3	3.1	3	2.9	74
76									3.1	3	2.9	2.8	2.7	76
78										2.7	2.6	2.5	2.4	78
80										2.5	2.4	2.3	2.2	80
82											2.2	2.1	1.9	82
84												1.8	1.7	84
86													1.5	86
88													1.3	88
Reeving	1	1	1	1	1	1	1	1	1	1	1	1	1	Reeving

4. Dimensions of components in transport

Basic machine

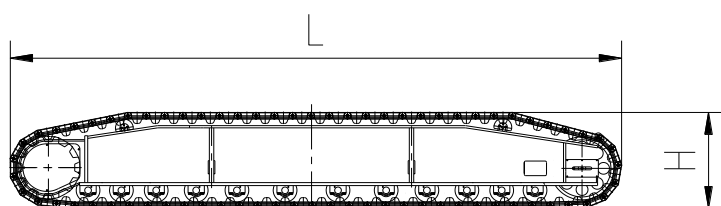


1 piece*

Length (L)	12460 mm
Width (W)	3000 mm
Height (H)	3240 mm
Weight	34200 kg

注：带桅杆、主臂防后倾

Track carrier assy.

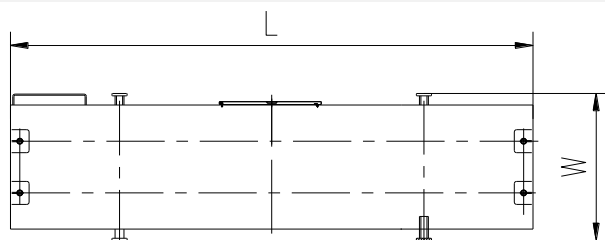


2 pieces*

Length (L)	8260 mm
Width (W)	1375 mm
Height (H)	1320 mm

Weight 15330 kg

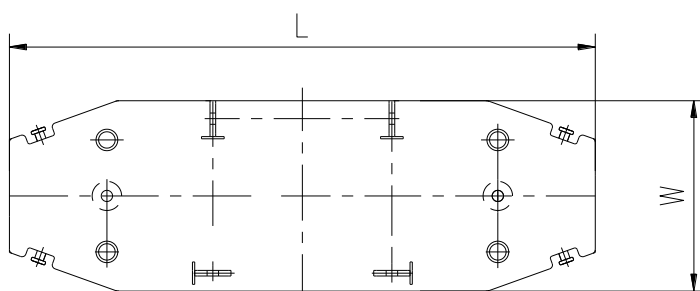
Central ballast



2 pieces

Length (L)	4480 mm
Width (W)	1280 mm
Height (H)	580 mm
Weight	8000 kg

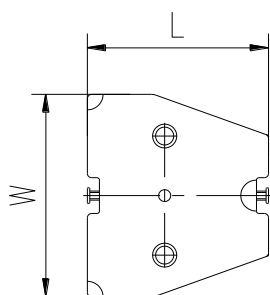
Counterweight base



1 piece

Length (L)	5170 mm
Width (W)	1700 mm
Height (H)	468 mm
Weight	8900 kg

Counterweight plate 1

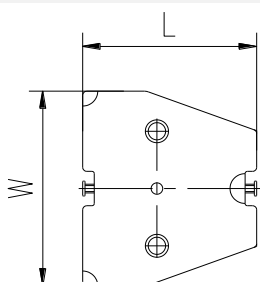


8 piece

Length (L)	1500 mm
Width (W)	1700 mm
Height (H)	560 mm
Weight	4800 kg

Counterweight plate 2

2 pieces



Length (L) 1500 mm

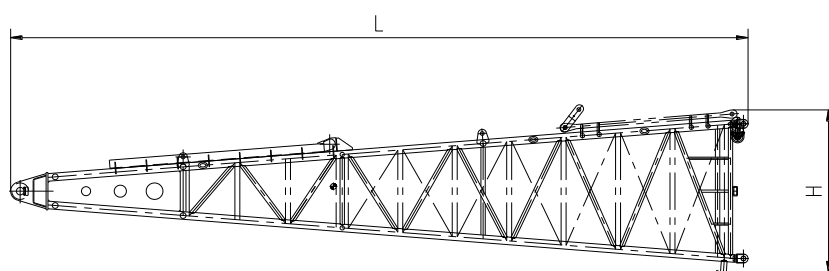
Width (W) 1700 mm

Height (H) 310 mm

Weight 2000 kg

Main boom pivot section

1 piece*



Length (L) 9685 mm

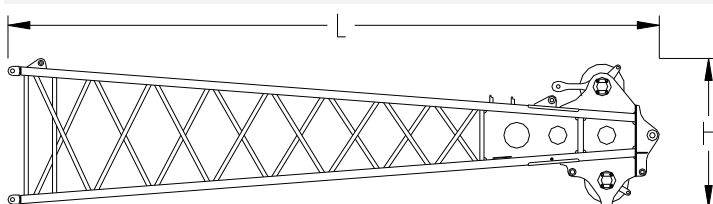
Width (W) 2175 mm

Height (H) 2180 mm

Weight 1620 kg

Main boom head

1 piece



Length (L) 10175 mm

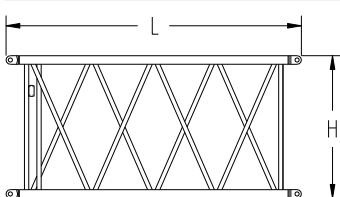
Width (W) 2120 mm

Height (H) 2300mm

Weight 2200 kg

Main boom intermediate section of 3m

2 pieces*



Length (L) 3120 mm

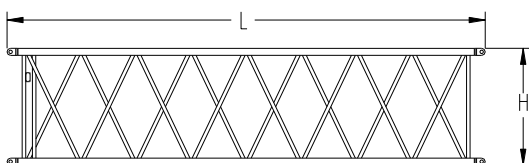
Width (W) 2120 mm

Height (H) 1920 mm

Weight 480 kg

Main boom intermediate section of 6m

1 piece*



Length (L) 6120 mm

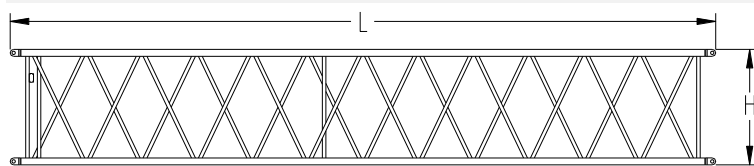
Width (W) 2120 mm

Height (H) 1920 mm

Weight 830 kg

Main boom intermediate section of 9m

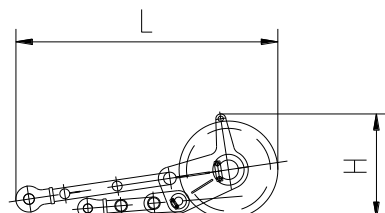
5 件*



Length (L)	9120 mm
Width (W)	2120 mm
Height (H)	1920 mm
Weight	1180 kg

Tip boom

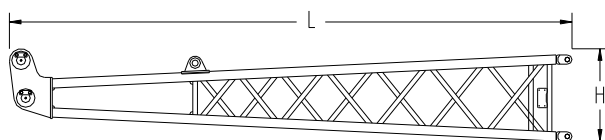
1 piece



Length (L)	1600 mm
Width (W)	920 mm
Height (H)	650 mm
Weight	165 kg

Fixed jib pivot section

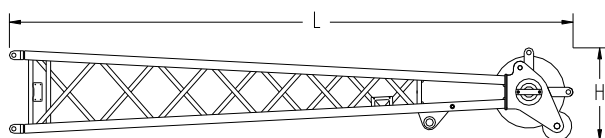
1 piece*



Length (L)	6665 mm
Width (W)	960 mm
Height (H)	760 mm
Weight	325 kg

Fixed jib head

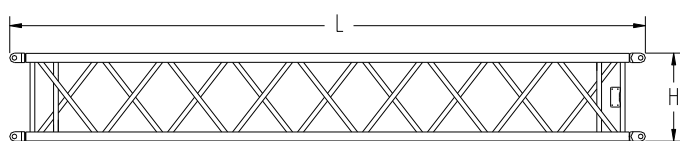
1 piece*



Length (L)	6930 mm
Width (W)	960 mm
Height (H)	800 mm
Weight	430 kg

Fixed jib intermediate section of 6m

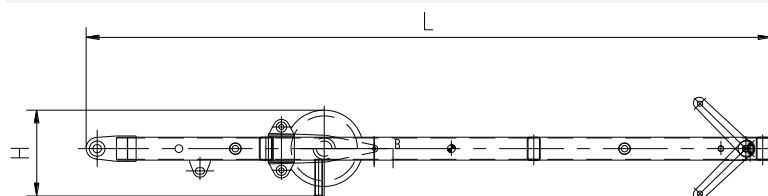
3 pieces*



Length (L)	6060 mm
Width (W)	960 mm
Height (H)	860 mm
Weight	240 kg

FA-frame

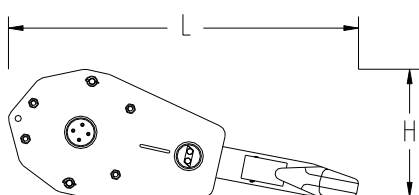
1 piece*



Length (L)	5280 mm
Width (W)	900 mm
Height (H)	680 mm
Weight	495 kg

Load hook for 160t

1 piece*



Length (L) 2180 mm

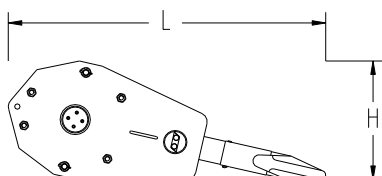
Width (W) 810mm

Height (H) 990 mm

Weight 2340 kg

Load hook for 80t

1 piece*



Length (L) 1900 mm

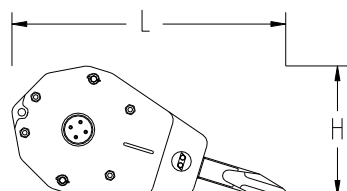
Width (W) 810 mm

Height (H) 765 mm

Weight 1710 kg

Load hook for 30t

1 piece*



Length (L) 1630 mm

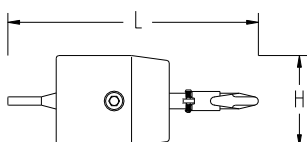
Width (W) 780 mm

Height (H) 630 mm

Weight 1090 kg

Load hook for 12.5t

1 piece*



Length (L) 970

Width (W) 390

Height (H) 390

Weight 460

Notes:

1. Components are presented in diagrammatic drawings that are not drawn to scale. Length is a boundary dimension.
2. Weight of packaging is not counted in the weight above, which might be different from the actual weight due to manufacturing error.
3. There might be improvements made on components listed above, resulting modifications in dimensions and weight. Actual products to be delivered shall prevail.
4. Numbers of components marked * are determined by the actual need.