

ZOOMLION

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ZOOMLION CRAWLER CRANE ZCC2200V E5



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VISION CREATES FUTURE

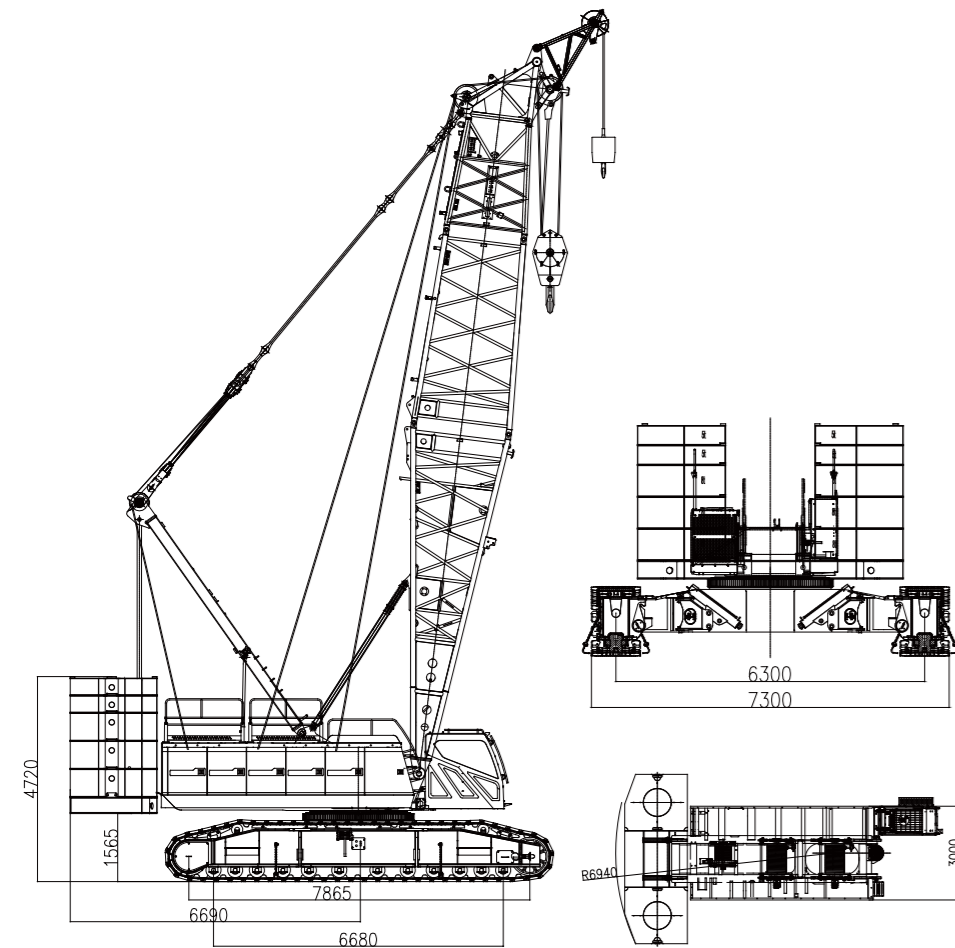
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DEMEASIONS

Overall dimensions of the crane



TECHNICAL HIGHLIGHTS

Multiple operating modes, satisfying various needs of lifting

- Available operating modes include: main boom operating mode (with tip boom), fixed jib operating mode and luffing jib operating mode (optional: tip boom operating mode).

Superior lifting performance and wide working radius

- The comprehensive lifting capacity of main boom, fixed jib and luffing jib are of the superior level for crawler cranes of the same tonnage in the industry.
- Slewing radius $\leq 7m$ and shortest main boom of 16m; satisfying the need of lifting in narrow spaces.
- Selectable graded rear counterweight, relatively light weight of the basic machine and moderate track gauge satisfy the needs of lifting at construction sites like trestle that have special requirements for the weight and operation space of the crane.

Extremely low cost for transport and super high efficiency of assembly and disassembly Transport

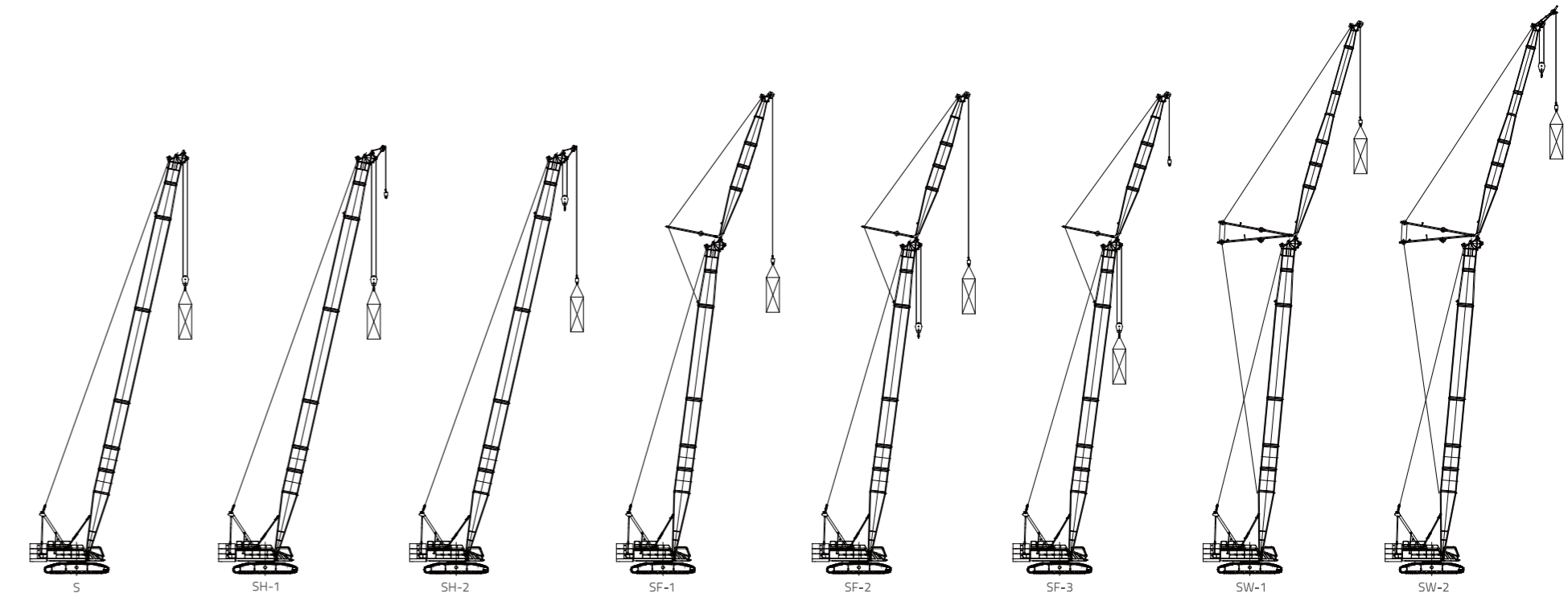
- Transport weight of the basic machine with a pivot section $\leq 40t$; width of 3m and height of 3.3m; transported by a regular flatbed trailer.
- Transport of boom sections (one boom section fixed inside another; 3 pieces of boom sections can be fixed as a whole): full configuration for the operating mode of main boom + luffing jib + fixed jib can be transported with only six regular flatbed trailers.

Assembly and disassembly

- There is no need to assemble or disassemble the pivot section, which can be transported with the basic machine. An A-frame erecting cylinder is equipped to realize the erection of A-frame through power.

DESCRIPTION ON BOOM COMBINATION

Code	Operating mode	Rear counterweight + central ballast	Parameters	Description
S	Main boom	64t+28t	16m ~ 79m	Load on main boom
		74t+28t	22m ~ 82m	
		84t+28t (optional)	28m ~ 85m	
SH-1	Main boom + tip boom (main hook)	64t+28t	16m ~ 79m	Main boom: loaded Tip boom: unloaded
		74t+28t	22m ~ 82m	
		84t+28t (optional)	28m ~ 85m	
SH-2	Main boom + tip boom (auxiliary hook)	64t+28t	16m ~ 79m	Main boom: unloaded Tip boom: loaded
		74t+28t	22m ~ 82m	
		84t+28t(optional)	28m ~ 85m	
SF-1	Main boom + fixed jib(auxiliary hook, without main hook)	84t+28t	(28m ~ 70m)+(13m ~ 31m)	Fixed jib: loaded Main boom: unloaded, no hook
SF-2	Main boom + fixed jib(auxiliary hook, with main hook)	84t+28t	(28m ~ 55m)+(13m ~ 31m)	Fixed jib: loaded Main boom: unloaded, with hook
SF-3	Main boom + fixed jib (main hook)	84t+28t	(28m ~ 55m)+(13m ~ 31m)	Main boom: loaded Fixed jib: unloaded but with hook
SW-1	Main boom + luffing jib(auxiliary hook)	84t+28t	(22m ~ 55m)+(22m ~ 52m)	Luffing jib: loaded Main boom: unloaded, no hook
SW-2	Main boom + luffing jib(tip boom)	84t+28t	(22m ~ 55m)+(22m ~ 52m)	Main boom: unloaded, no hook Luffing jib: unloaded but with hook Tip boom: loaded, with hook



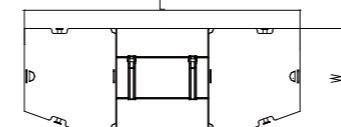
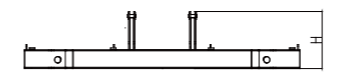
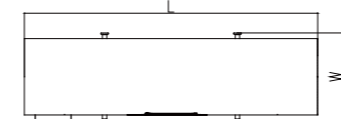
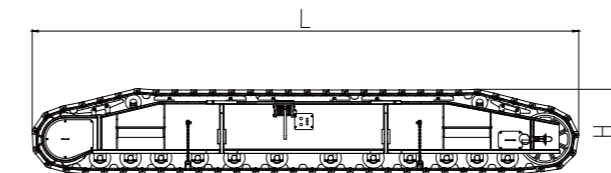
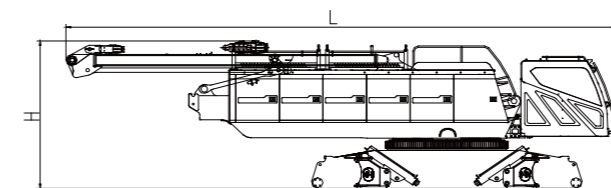
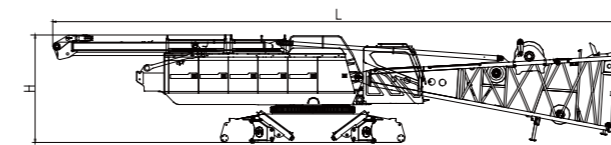
TECHNICAL PARAMETERS

Item	Unit	Values	Notes	
Main boom operating mode	Max.ratedliftingmoment	t·m	1201	
	Max.ratedliftingcapacity×radius	t×m	220×4.6	
	Lengthofmainboom	m	16~85	
Luffing jib operating mode	Max.ratedliftingcapacity	t×m	71.8×12	
	Lengthofluffingjib	m	22~52	
	Max.lengthofmainboom+jib	m	55+52	
Fixed jib operating mode	Max.ratedliftingcapacity	t×m	52.2×14	
	Lengthoffixedjib	m	13~31	
	Max.lengthofmainboom+jib	m	70+13/61+31	
Mechanism speed	Ropespeedofmainhoistingwinch	m/min	140	
	Ropespeedofsecondaryhoistingwinch	m/min	140	
	Ropespeedofmaiderrickingwinch	m/min	49	
	Slewingspeed	rpm	1.16	
	Crawlingspeed	km/h	1.2	
Engine	Model/emissionstandard	L	L9	EuropeV(The options are available.)
	Ratedpower/rotationalspeed	kW/rpm	246/2000	
	Max.outputtorque/rotationalspeed	N.m/rpm	1636/1100	
Transport parameters	Deadweightofcrawlercrane	t	174	Basic boom with main hook
	Transportdimensionofbasicmachine(length×width×height)	m	17.6×3.0×3.32	With pivot section
Other parameters	Averagegroundpressure(withbasicboom)	MPa	0.109	
	Gradeability	%	30	
	Distancebetweentwotracks×contactlengthoftrack×widthoftrackpad	m	6.3×7.86×1	
	Slewingradius	m	6.94	

Attention:

- The speed of the wire rope indicates the calculation value of the outmost layer of the drum when the engine runs without the load.
- These major technical parameters such as the crawling speed, the gradeability, the average ground pressure and the slewing speed are the calculation values according to the theoretical condition.
- The weight of the whole crane and the ground pressure are the calculation parameters under the condition that the counterweight is 64t and the central counterweight is 28t.
- Our company reserves the right to update and modify the technical parameters. If there is any change without notice.

DIMENSIONS OF PARTS IN TRANSPORT



Basic machine 1	1 piece*
Length(L)	17600 mm
Width (W)	3000 mm
Height (H)	3320 mm
Weight	40000 kg

Note: with pivot section and luffing jib

Basic machine 2	1 piece*
Length(L)	11465 mm
Width (W)	3000 mm
Height (H)	3360mm
Weight	35300 kg

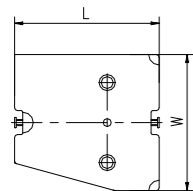
Without pivot section and tilting-back support

Crawler carrier assy	2 pieces
Length(L)	8960 mm
Width (W)	1320mm
Height (H)	1420 mm
Weight	17700 kg

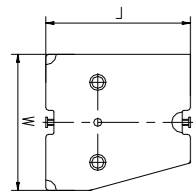
Central ballast	2 pieces
Length(L)	5100 mm
Width (W)	640 mm
Height (H)	1550 mm
Weight	14000 kg

Counterweight base	1 piece
Length(L)	5420 mm
Width (W)	2000 mm
Height (H)	1140 mm
Weight	16000 kg

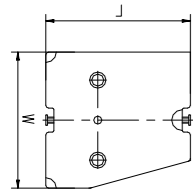
DIMENSIONS OF PARTS IN TRANSPORT



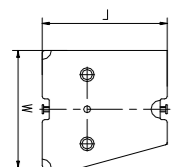
Counterweight slab 1	3 pieces
Length (L)	1800 mm
Width (W)	2000 mm
Height (H)	676 mm
Weight	8000 kg



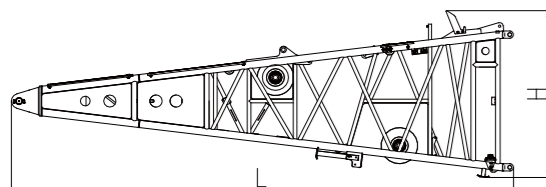
Counterweight slab 2	3 pieces
Length (L)	1800 mm
Width (W)	2000 mm
Height (H)	676 mm
Weight	8000 kg



Counterweight slab 3	2 pieces*
Length (L)	1800 mm
Width (W)	2000 mm
Height (H)	395 mm
Weight	5000 kg

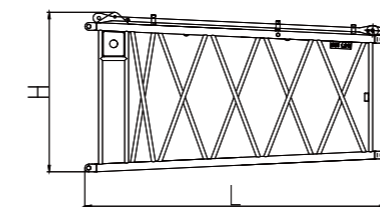


Counterweight slab 4	2 pieces*
Length (L)	1800 mm
Width (W)	2000 mm
Height (H)	395 mm
Weight	5000 kg

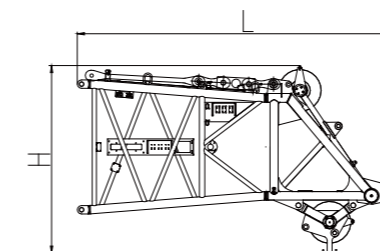


Main boom pivot section	1 piece
Length (L)	8190 mm
Width (W)	2525 mm
Height (H)	2765 mm
Weight	2950kg

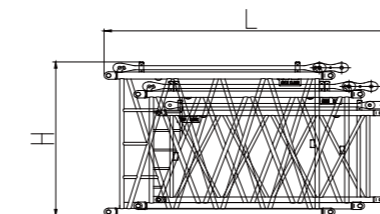
DIMENSIONS OF PARTS IN TRANSPORT



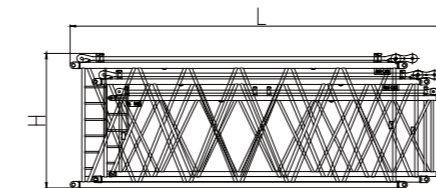
Main boom reducing section	1 piece
Length(L)	4620 mm
Width (W)	2520 mm
Height (H)	2480 mm
Weight	1300kg



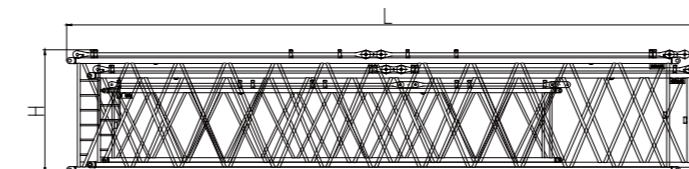
Main boom head section	1 piece
Length(L)	4555 mm
Width (W)	1662 mm
Height (H)	2690 mm
Weight	2540kg



Package of 3m intermediate sections	2 pieces*
Length(L)	3950 mm
Width (W)	2120 mm
Height (H)	2480 mm
Weight	1850kg

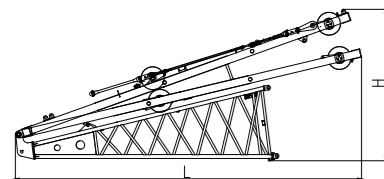


Package of 6m intermediate sections	1 piece*
Length(L)	6950 mm
Width (W)	2120 mm
Height (H)	2480 mm
Weight	4050kg

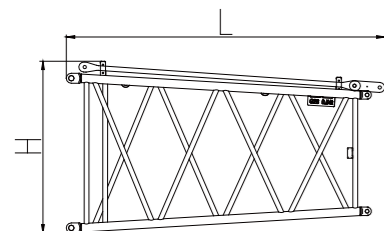


Package of 12m intermediate sections	2 pieces*
Length(L)	12705 mm
Width (W)	2120 mm
Height (H)	2480 mm
Weight	5460kg

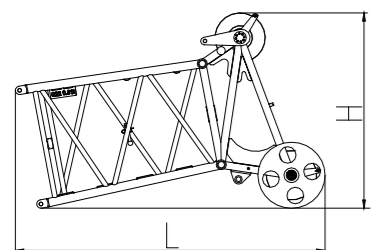
DIMENSIONS OF PARTS IN TRANSPORT



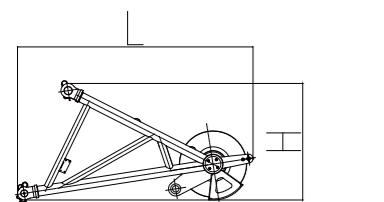
Fixed jib / luffing jib pivot section (with FA-frame and anchoring rods)	1 piece*
Length (L)	8915 mm
Width (W)	2120 mm
Height (H)	3965 mm
Weight	5250kg



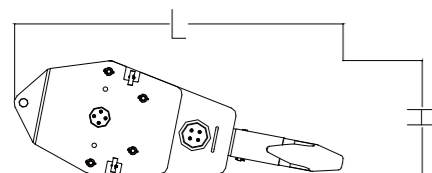
Fixed jib / luffing jib reducing section	1 piece*
Length (L)	3772mm
Width (W)	2120 mm
Height (H)	2065 mm
Weight	540kg



Fixed jib / luffing jib head section	1 piece*
Length (L)	3695 mm
Width (W)	1705 mm
Height (H)	2370 mm
Weight	920kg

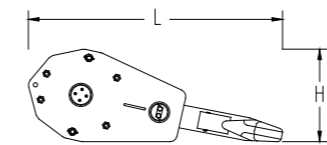


Tip boom	1 piece
Length (L)	2095 mm
Width (W)	1055 mm
Height (H)	1055mm
Weight	279kg

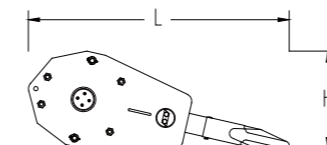


Hook (200t)	1 piece*
Length (L)	2245 mm
Width (W)	1045 mm
Height (H)	795 mm
Weight	2671 kg

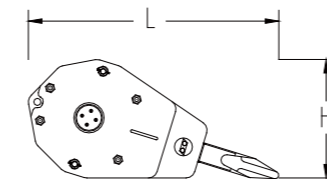
DIMENSIONS OF PARTS IN TRANSPORT



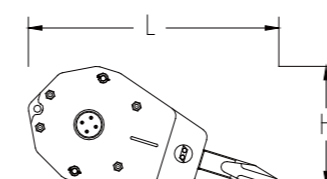
Hook (160t)	1 piece*
Length(L)	2000mm
Width (W)	1070 mm
Height (H)	780 mm
Weight	2221 kg



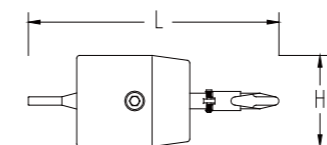
Hook (100t)	1 piece*
Length(L)	1810 mm
Width (W)	850 mm
Height (H)	780 mm
Weight	1656 kg



Hook (80t)	1 piece*
Length(L)	1800 mm
Width (W)	695 mm
Height (H)	790 mm
Weight	1414 kg



Hook (32t)	1 piece*
Length(L)	1630 mm
Width (W)	616 mm
Height (H)	780 mm
Weight	979 kg



Hook (13.5t)	1 piece*
Length(L)	1060 mm
Width (W)	390 mm
Height (H)	390 mm
Weight	420 kg

Notes:
 1. Figures in the above table are schematic diagrams that are not drawn in fixed proportions. Dimensions shown are general boundary dimensions.
 2. Packaging weight is not included. Weights might be different from what are listed in the above table due to manufacturing error.
 3. Dimensions of actual products shall prevail if dimensions and weights differ from what are listed above due to parts improvement.
 4. Number of parts marked with * are determined by actual needs.
 5. Our company reserves the right to update and modify the technical parameters. If there is any change without notice.

TECHNICAL DESCRIPTION



Power unit

Engine: CumminsL9.
Rated power kW/ rotational speed r/min: 246/2000.
Maximum torque N·m/ rotational speed r/min: 1636/1100.
Emission standard: Europe V for non-road mobile machinery.
Volume of fuel oil tank: 550L.



Hydraulic system

Hydraulic pump: two plunger pumps of famous brand; energy-saving, stable and reliable; it drives winches and the crawling mechanism; the closed high pressure plunger 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 hydraulic joysticks and two foot-operated crawling control valves are used for controlling different executive components.
Volume of hydraulic oil tank: 560L.



Centralized display system

The large LCD touch screen of 10.4 inches displays in multiple languages. It displays all kinds of signals collected by the PLC controller, including engine speed, water temperature, fuel oil pressure, hydraulic pump pressure, motor pressure, levelness of the basic machine, etc. It carries out real-time monitoring on the working condition and sends out a yellow or a red alarm together with a sound alarm when the working condition of the crane is abnormal.



GPS/GPRS remote monitoring system

GPS/GPRS remote monitoring system is composed of the following parts: a vehicle-mounted computer system, a vehicle-mounted communication/navigation system, GPS global positioning system, GPRS wireless data transmission system, network server system, remote monitoring center system, etc.



Hoisting mechanism

Both the main hoisting winch and the secondary hoisting winch 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 reel with a double-rope groove guarantees that rope of multiple layers will not intertwine together.

	Main hoisting winch	Secondary hoisting winch
Rated single rope tension (the 5th layer)	13.5t	13.5t
Wire rope diameter	26mm	26mm
Wire rope length	400m	340m
Max. single rope speed	140m/min	140m/min



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 winch
Rated single rope tension (the 5th layer)	11.5t
Wire rope diameter	22mm
Wire rope length	242m
Max. single rope speed	49m/min

TECHNICAL DESCRIPTION



Slewing mechanism

The slewing mechanism is composed of hydraulic motor, slewing reducer, control valve and slewing bearing. Small gear of the output shaft rotates around the slewing bearing ring fixed on the chassis so that the slewing platform makes slewing movement of 360°.
Maximum slewing speed: 1.16rpm.



Counterweight

The standard combination of counterweight is 74t+28t. Different combinations of counterweight are available for users according to their actual needs. A counterweight slab of 10t can be purchased additionally to form a counterweight combination of 84t+28t if the user needs operating modes of fixed jib and luffing jib.

Refer to the table below for specific combinations of counterweight:

Weight of counterweight	Pallet (16t)	Counterweight slab (left, 8t)	Counterweight slab (right, 8t)	Counterweight slab (left, 5t)	Counterweight slab (right, 5t)
Rear counterweight	64t	1	3	3	
	74t	1	3	3	1
	84t	1	3	3	2
Central ballast	14×2=28t				



Operator's cab

Operator's cab of exclusive use for crawler crane; switch-controlled cab-pitching mechanism (pitching range: 0°~15°)

The seat in the cab is upgraded to an air-suspension soft seat, which offers a high standard of comfort during operation and avoids tiredness from sitting for too long.

J Joysticks and the layout of CAN bus integrate switches are designed in accordance with ergonomics, ensuring better comfort during operation.

A color display of 10.4" and a monitoring screen help the operator to know the real-time working condition of the crane.

Equipment for recreation: radio, bluetooth speaker, USB charging port.



Crawling mechanism

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

Crawling speed: 0~1.2km/h.

Gradeability: 30%



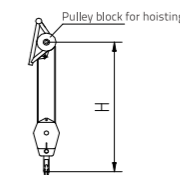
Hook

Six types of hooks are available. Each hook is equipped with an anti-unhooking device.

Specification of hook	Weight of hook (Kg)	Number of pulleys
200t	2670	9
160t	2221	7
100t	1656	5
80t	1414	3
32t	979	1
13.5t	420	0

Hoisting limit height for different hooks:

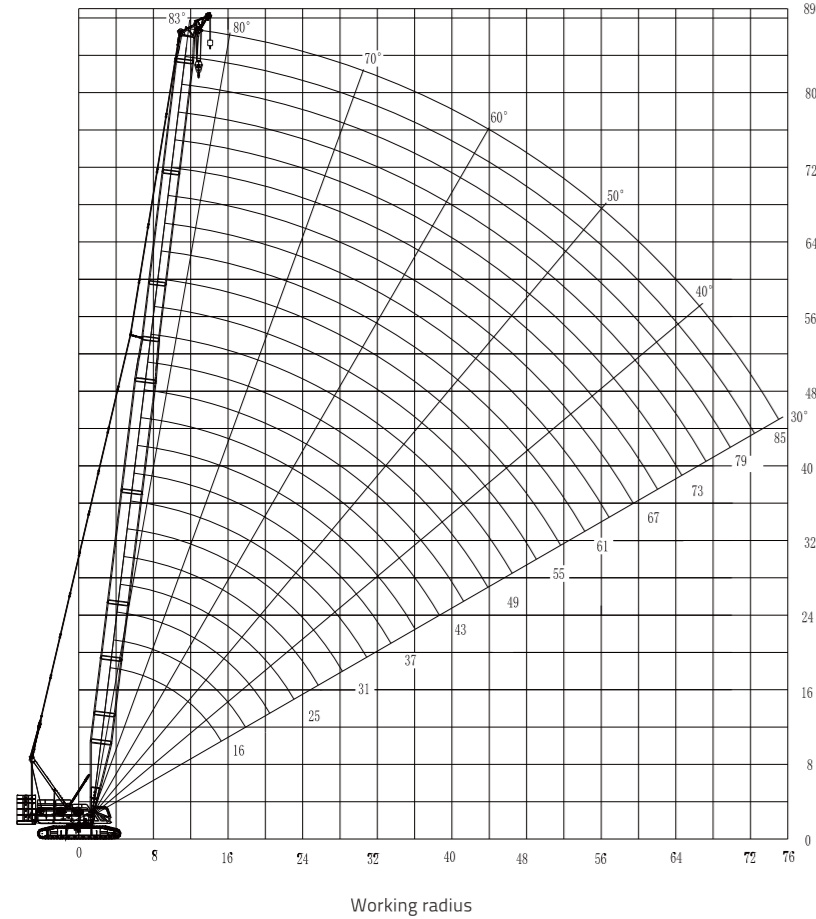
Hook	Height
200t	5.1m
160t	5.1m
100t	4.9m
80t	4.9m
32t	4.8m
13.5t	4.3m



WORKING RADIUS AND LIFTING CAPACITY CHARTS

Main boom operating mode

Hoisting height curves (S)



Unit: m

Lifting capacity chart (S) (rear counterweight of 84t + central ballast of 28t)

Unit: t

Radius(m)	Length of main boom (m)																								
	28	31	34	37	40	43	46	49	52	55	58	61	64	67	70	73	76	79	82	85					
9			128.4	119	110	102																			
10	120.1	114.7	114	111	108	100	93	86.4	80																
12	91.8	91.8	91.8	90.8	88.8	86.9	85.0	82.8	76.9	71.7	67.5	64.1	57.8												
14	73.9	73.9	73.8	73.7	73.5	73.4	73.2	73.1	73.0	68.9	65.0	61.7	55.6	51.4	49.9	45.8	41.8								
16	61.6	61.6	61.5	61.3	61.2	61.0	61.0	60.8	60.2	59.4	57.8	56.9	53.7	49.6	48.0	44.3	40.4	37.1	33.8	30.7					
18	52.6	52.6	52.5	52.3	52.2	52.0	51.9	51.8	51.6	51.5	50.8	50.3	49.3	47.9	46.5	42.6	39.0	35.9	32.7	29.2					
20	45.8	45.8	45.7	45.5	45.3	45.2	45.1	44.9	44.8	44.6	44.4	44.4	43.6	43.3	42.8	41.2	37.4	34.6	31.6	27.9					
22	40.4	40.4	40.3	40.1	39.9	39.8	39.7	39.5	39.3	39.1	39.0	38.9	38.8	38.5	37.9	37.6	34.9	33.6	30.5	26.7					
24	36.0	36.0	35.9	35.7	35.6	35.4	35.3	35.1	35.0	34.8	34.6	34.6	34.4	34.4	34.2	33.6	32.2	30.6	29.6	25.5					
26	32.4	32.5	32.3	32.2	32.0	31.8	31.7	31.5	31.4	31.2	31.0	30.9	30.7	30.8	30.6	30.4	29.9	27.9	27.4	23.6					
28		29.4	29.3	29.2	28.9	28.8	28.7	28.5	28.3	28.1	28.0	27.9	27.7	27.7	27.6	27.5	26.9	24.9	24.8	22.0					
30			26.8	26.6	26.4	26.2	26.1	25.9	25.8	25.6	25.4	25.3	25.1	25.2	25.0	24.9	24.7	23.9	22.3	20.4					
32				24.4	24.2	24.0	23.9	23.7	23.6	23.4	23.2	23.1	22.9	22.9	22.7	22.7	22.5	21.6	20.2	19.0					
34				22.4	22.2	22.1	22.0	21.8	21.6	21.4	21.2	21.0	21.0	20.8	20.7	20.5	19.7	18.8	17.4						
36					20.6	20.4	20.3	20.1	19.9	19.7	19.5	19.5	19.3	19.3	19.1	19.0	18.8	18.0	17.4	16.3					
38						18.9	18.8	18.6	18.4	18.2	18.0	18.0	17.8	17.8	17.6	17.5	17.3	16.4	16.1	15.0					
40							17.5	17.3	17.1	16.9	16.7	16.6	16.4	16.5	16.3	16.2	16.0	15.1	15.0	13.8					
42								16.1	15.9	15.7	15.5	15.4	15.2	15.3	15.1	15.0	14.8	13.9	13.9	12.7					
44									15.0	14.8	14.6	14.4	14.4	14.1	14.2	14.0	13.9	13.7	12.8	12.9	11.7				
46										13.8	13.6	13.4	13.4	13.2	13.2	13.0	12.9	12.7	11.8	11.8	9.3				
48											12.7	12.5	12.5	12.3	12.3	12.1	12.0	11.8	10.9	9.6	8.5				
50												11.7	11.7	11.4	11.5	11.3	11.2	11.0	10.1	8.8	7.7				
52													10.9	10.9	10.7	10.7	10.5	10.4	10.1	9.3	8.2	7.0			
54														10.2	10.0	10.0	9.7	9.6	9.4	8.6	7.6	6.9			
56															9.3	9.3	9.0	9.0	8.5	7.6	7.0	6.4			
58																	8.7	8.4	8.3	7.6	6.6	6.0			
60																		8.1	7.8	7.6	6.3	6.1	5.7		
62																			7.2	6.8	5.9	5.7	5.5	5.4	
64																				5.9	5.4	5.2	5.1	5.0	
66																					5.0	4.8	4.7	4.5	
68																						4.4	4.3	4.2	
70																							4.1	4.0	3.8
72																								3.6	3.5
Reeving	12	11	10	9	9	8	8	7	7	6	6	5	5	5	4	4	4	3	3	3					

Attention:
 1.For tip boom operating mode, the lifting capacity is the main boom lifting capacity of the same radius, of which the maximum shall not exceed 13.5t or 27t when there are 2 reevings.2.The main boom and the tip boom cannot be used simultaneously if a tip boom is fixed on the main boom.3.The working radius is the horizontal distance from the barycenter of the load to the slewing center.4.The actual lifting capacity is that the rated lifting capacity in this table deducts the weights of the hook, the slings and the other lifting tools.5.Under the state of the free suspended load, the lifting capacity value don't take into account the following negative factors which have an influence on it:the wind load,the ground gradient and condition,the operation speed etc.Therefore, it is the operator's responsibility to judge and distinguish the current operation situation, and reduce the lifting capacity and decelerate the speed accordingly.6.The shown lifting capacity values are obtained when the ground is hard and level, and the slope is no more than 1%.7.When main boom is >79m, the main boom shall be erected with intermediate tensioner.

WORKING RADIUS AND LIFTING CAPACITY CHARTS

Lifting capacity chart (S) (rear counterweight of 74t + central ballast of 28t)

Unit: t

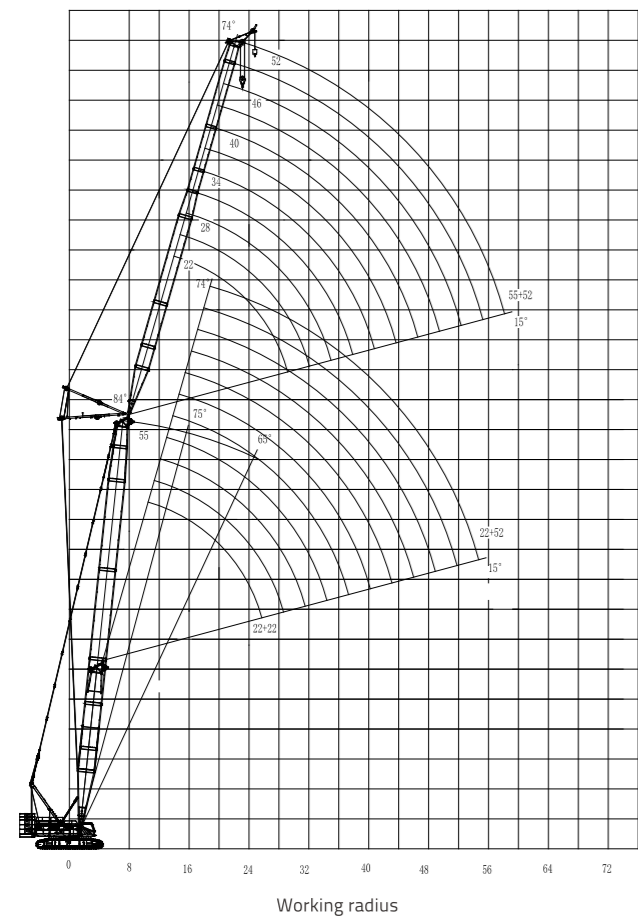
Radius(m)	Length of main boom (m)																									
	22	25	28	31	34	37	40	43	46	49	52	55	58	61	64	67	70	73	76	79	82					
8			140.6	139	130	121																				
9		123.3	123.3	121.3	117.8	114.4	110	102																		
10	109.4	109.4	109.4	107.4	104.6	101.9	99.2	96.7	93	86.4	80															
12	84.5	84.4	84.3	84.3	84.3	83.2	81.3	79.5	77.9	76.2	74.5	71.7	67.5	64.1	57.8											
14	68.0	67.9	67.8	67.8	67.7	67.6	67.4	67.3	67.2	67.1	67.0	66.8	60.7	59.8	55.6	51.4	49.9	45.8	41.8							
16	56.7	56.6	56.4	56.4	56.3	56.2	56.0	55.9	55.8	55.7	55.5	55.4	52.7	51.8	50.9	49.6	48.0	44.3	40.4	37.1	33.8					
18	48.5	48.3	48.1	48.1	48.0	47.9	47.7	47.6	47.5	47.3	47.2	47.0	46.3	45.6	44.7	44.2	43.3	42.6	39.0	35.9	32.7					
20	42.2	42.0	41.8	41.8	41.7	41.6	41.4	41.3	41.2	41.0	40.8	40.7	40.5	40.2	39.7	39.3	38.6	38.0	37.4	34.6	31.6					
22		37.1	36.9	36.9	36.8	36.6	36.4	36.3	36.2	36.0	35.8	35.7	35.5	35.4	35.3	34.9	34.4	34.1	33.4	32.8	30.5					
24			32.9	32.9	32.8	32.6	32.4	32.3	32.2	32.0	31.8	31.6	31.4	31.4	31.2	30.8	30.4	30.0	29.5	29.2						
26				29.6	29.6	29.5	29.3	29.1	28.9	28.8	28.6	28.5	28.3	28.1	28.1	27.9	27.9	27.7	27.4	27.0	26.5	26.3				
28					26.8	26.7	26.5	26.3	26.2	26.1	25.9	25.7	25.5	25.3	25.3	25.1	25.1	24.9	24.8	24.4	24.0	23.7				
30						24.3	24.1	23.9	23.8	23.7	23.5	23.3	23.1	22.9	22.9	22.7	22.7	22.5	22.4	22.2	21.8	21.6				
32							22.1	21.9	21.8	21.6	21.4	21.3	21.1	20.9	20.8	20.6	20.7	20.5	20.4	20.2	19.8	19.7				
34								20.3	20.1	20.0	19.9	19.7	19.5	19.3	19.1	19.0	18.8	18.9	18.7	18.6	18.4	18.2	18.0			
36									18.5	18.4	18.3	18.1	17.9	17.7	17.5	17.5	17.3	17.3	17.1	17.0	16.8	16.6	16.5			
38										17.0	16.9	16.7	16.6	16.3	16.1	16.1	15.9	15.9	15.7	15.6	15.4	15.2	15.2			
40											15.7	15.5	15.3	15.1	14.9	14.9	14.7	14.7	14.5	14.4	14.2	14.0	14.0			
42												14.4	14.2	14.0	13.8	13.7	13.5	13.4	13.3	13.1	12.9	12.9				
44													13.4	13.2	13.0	12.8	12.7	12.5	12.5	12.4	12.3	12.1	11.9	11.8		
46														12.3	12.1	11.9	11.8	11.6	11.5	11.4	11.4	11.2	9.8	10.9		
48															11.3	11.1	11.0	10.8	10.8	10.6	10.5	10.3	9.0	10.0		
50																10.3	10.2	10.0	10.0	9.8	9.7	9.5	8.3	9.2		
52																	9.6	9.5	9.3	9.3	9.1	9.0	8.7	7.7	8.4	
54																		8.8	8.6	8.6	8.4	8.3	8.0	7.0	7.7	
56																			7.9	8.0	7.7	7.6	7.4	6.4	7.1	
58																				7.4	7.1	7.0	6.8	5.9	6.5	
60																					6.8	6.6	6.5	6.2	5.4	5.4
62																						6.1	6.0	5.7	5.0	5.0
64																							5.5	5.2	4.5	4.5
66																								4.4	4.1	4.1
68																									3.7	3.7
70																									3.3	3.3
72																									3.0	3.0
Reeving	14	13	12	11	10	9	9	8	8	7	7	6	6	5	5	5	4	4	4	3	3					

Attention:
 1.For tip boom operating mode, the lifting capacity is the main boom lifting capacity of the same radius, of which the maximum shall not exceed 13.5t or 27t when there are 2 reevings.2.The main boom and the tip boom cannot be used simultaneously if a tip boom is fixed on the main boom.

WORKING RADIUS AND LIFTING CAPACITY CHARTS

Operating mode of main boom + luffing jib

Hoisting height curves (SW-1)



Lifting capacity chart (SW) (rear counterweight of 84t + central ballast of 28t)

Unit: t

Radius (m)	Main boom length: 22m; main boom angle: 84°										
Jib (m)	22	25	28	31	34	37	40	43	46	49	52
12	71.8										
14	63.2	61.3		59.3		57.3					
16	56.2	54.8	53.2	51.6	49.8	48.1					
18	50.5	49.3	48	46.8	45.3	44	42.5	39.7			
20	45.8	44.8	43.7	42.7	41.4	40.4	39.1	37.9	35.5	31.3	28
22	39.5	40.9	40	39.1	38.1	37.2	36.1	35.1	34.1	31.3	27.9
24	29.7	35.6	36.6	36	35.1	34.3	33.4	32.6	31.7	30.6	27.7
26		30.7	32.1	32.8	32.5	31.8	31	30.3	29.6	28.6	27.5
28		21.8	28.2	29.2	29.4	29.6	28.9	28.3	27.6	26.8	26.1
30			24.4	25.9	26.4	26.8	26.8	26.4	25.9	25.1	24.5
32				22.8	23.6	24.2	24.2	24.4	24.3	23.6	23
34				19.3	21	21.8	22.1	22.3	22.5	22.2	21.6
36					18.4	19.6	20	20.4	20.6	20.3	20.3
38						17.4	18.1	18.6	18.9	18.8	18.8
40							15.2	16.4	16.9	17.3	17.2
42								14.5	15.4	15.9	15.8
44									13.8	14.5	14.6
46										12.1	13.1
48											11.7
50											11
52											9.7
54											9.4
Reeving	6	5	5	5	4	4	4	3	3	3	3

Note:
1.The above-mentioned lifting capacity chart (SW) is for reference only. As for the details, refer to the lifting capacity charts attached with the crane.

WORKING RADIUS AND LIFTING CAPACITY CHARTS

Lifting capacity chart (SW) (rear counterweight of 84t + central ballast of 28t)

Unit: t

Radius (m)	Main boom length: 43m; main boom angle: 84°										
Jib (m)	22	25	28	31	34	37	40	43	46	49	52
14	55.7										
16	51.6	49.5	47.3								
18	47.7	46	44.2	42.5	40.7	37.3					
20	44	42.8	41.2	39.8	38.3	36.8	34	30.5			
22	40.5	39.4	38.3	37.2	35.9	34.7	33.4	30.4	27.7	25.2	23
24	37.3	36.5	35.5	34.5	33.5	32.5	31.5	30.2	27.6	25.1	22.9
26	30	33.6	33	32	31.1	30.2	29.4	28.4	27.4	25	22.7
28	16.4	30.6	30.4	29.8	28.9	28.2	27.4	26.5	25.8	24.7	22.5
30		20.5	27.9	27.8	27	26.3	25.6	24.8	24.1	23.4	22.3
32			22.1	25.1	25.4	24.8	24	23.2	22.6	21.9	21.3
34				22.7	23.1	23	22.7	22	21.2	20.6	20
36				16	21.1	21.4	21.1	20.4	20.1	19.6	18.8
38					17.3	19.6	19.9	19.2	18.7	18.2	17.9
40						17.6	18.3	18.1	17.6	17.1	16.6
42							13	16.6	16.6	16.7	16.3
44								14	15.4	15.6	15.4
46									14	14.3	14.5
48									10.7	13.3	13.4
50										11.4	12.5
52											11.8
54										9.1	10.8
56											9.5
Reeving	5	4	4	4	4	3	3	3	3	2	2

Note:
1.The above-mentioned lifting capacity chart (SW) is for reference only. As for the details, refer to the lifting capacity charts attached with the crane.

Lifting capacity chart (SW) (rear counterweight of 84t + central ballast of 28t)

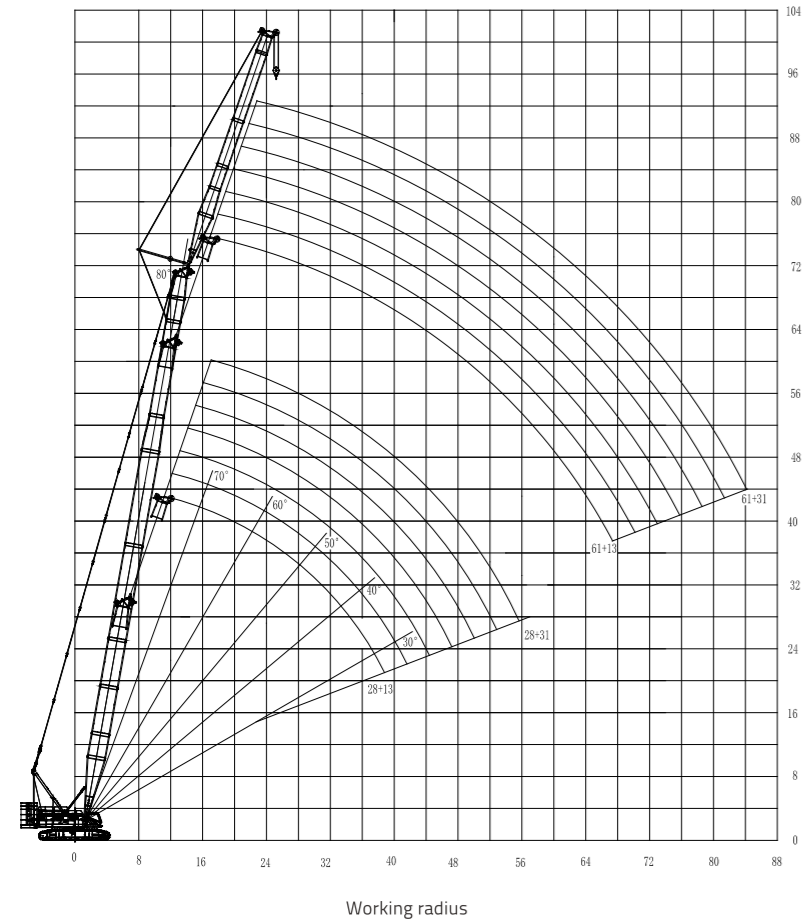
Unit: t

Radius (m)	Main boom length: 55m; main boom angle: 84°										
Jib (m)	22	25	28	31	34	37	40	43	46	49	52
16	45	42.5									
18	41.9	40.4	38.2	35.6							
20	38.6	37.4	36.2	34.1	32.3	29.9	27.7				
22	35.8	34.7	33.7	32.1	30.9	28.8	27.3	25.3	23.5		
24	33.3	32.2	31.3	30.2	29	28.1	26.3	25	23.2	20.9	19.3
26	28.5	30.1	29.2	28.2	27.3	26.3	25.2	24	22.8	20.6	19.1
28	18.9	27.7	27.2	26.2	25.5	24.7	23.9	22.9	21.9	20.2	18.8
30		20.2	24.8	24.3	23.8	23.2	22.5	21.8	21	19.4	18.4
32		12.9	20.9	22.3	21.9	21.5	21.2	20.5	19.9	18.9	17.7
34			14.5	20.6	20.4	20.1	19.7	19.3	18.8	17.8	17.3
36				15.4	18.9	18.7	18.5	18.1	17.9	16.9	16.3
38					10.3	16.1	17.4	17.3	17	16.7	15.6
40						11.5	16.2	16.1	16	15.8	15
42							12.3	14.9	14.9	14.8	14.2
44								12.9	13.9	13.8	13.4
46									9.5	13.2	12.5
48										10.1	12.3
50											10.6
52											11.2
54											8
56											8.2
58											8.7
Reeving	4	4	3	3	3	3	3	2	2	2	2

Attention:
1.The above-mentioned lifting capacity chart (SW) is for reference only. As for the details, refer to the lifting capacity charts attached with the crane.
2.For tip boom operating mode, the lifting capacity is the jib lifting capacity of the same radius, of which the maximum shall not exceed 12t.
3.The jib and the tip boom cannot be used simultaneously if a tip boom is assembled.
4.The working radius is the horizontal distance from the barycenter of the load to the slewing center.
5.The actual lifting capacity is that the rated lifting capacity in this table deducts the weights of the hook, the slings and the other lifting tools.
6.Under the state of the free suspended load, the lifting capacity value don't take into account the following negative factors which have an influence on it:
-the wind load;
-the ground gradient and condition;
-the operation speed etc.
Therefore, it is the operator's responsibility to judge and distinguish the current operation situation, and reduce the lifting capacity and decelerate the speed accordingly.
7.The shown lifting capacity values are obtained when the ground is hard and level, and the slope is no more than 1%.
8.Our company reserves the right to update and modify the above-mentioned lifting capacity parameters. If there is any change without notice.

WORKING RADIUS AND LIFTING CAPACITY CHARTS

Main boom+ fixed jib Lifting height curves of fixed jib operating mode



Main boom+ fixed jib mode(SF-1, auxiliary hook in operation, without main hook)
rear counterweight 84t central ballast 28t included angle 10° Unit: t

jib length (m)	31					
main boom length (m) radius (m)	28	31	34	37	40	43
20	28	27.7	27.5			
22	26.2	25.8	25.8	25.8	25.7	25.8
24	24.5	24.2	24.2	24.2	24.1	24.2
26	23.1	22.8	22.8	22.9	22.8	22.9
28	21.8	21.6	21.6	21.6	21.6	21.8
30	20.6	20.4	20.5	20.6	20.5	20.7
32	19.5	19.4	19.4	19.5	19.5	19.7
34	18.6	18.5	18.6	18.6	18.6	18.8
36	17.7	17.6	17.7	17.8	17.8	18
38	16.9	16.8	16.9	17	17.1	17.3
40	16.1	16.1	16.2	16.3	16.4	16.5
42	15.5	15.4	15.6	15.7	15.6	15.4
44	14.8	14.8	14.9	14.7	14.4	14.2
46	14.3	14.1	13.9	13.7	13.4	13.2
48	13.4	13.2	13	12.7	12.5	12.3
50	12.6	12.3	12.1	11.9	11.6	11.4
52	11.8	11.5	11.3	11.1	10.8	10.6
54	11	10.8	10.6	10.3	10.1	9.9
56	10.3	10.1	9.9	9.6	9.4	9.2
58		9.5	9.3	9	8.8	8.5
60			8.7	8.4	8.2	8
62				7.9	7.6	7.4
64				7.3	7.1	6.9
66					6.6	6.4
68						5.9
70						
reeving	3	3	3	2	2	2

WORKING RADIUS AND LIFTING CAPACITY CHARTS

Main boom+ fixed jib mode(SF-1, auxiliary hook in operation, without main hook)
rear counterweight 84t central ballast 28t included angle 10° Unit: t

jib length (m)	31					
main boom length (m) radius (m)	46	49	52	55	58	61
22	25.8					
24	24.4	24.5	24.6	24.5	14.5	
26	23.1	23.2	23.3	23.2	13.9	14.2
28	21.9	22	22.2	22.1	13.3	13.5
30	20.8	21	21.1	21.1	12.7	12.9
32	19.9	20	20.2	20.2	12.2	12.3
34	19	19.1	19.3	19.3	11.7	11.8
36	18.2	18.3	18.5	18.5	11.3	11.3
38	17.4	17.6	17.5	17.2	10.8	10.8
40	16.5	16.2	16	15.8	10.4	10.4
42	15.2	15	14.8	14.5	10.1	10
44	14	13.8	13.6	13.4	9.7	9.6
46	13	12.8	12.6	12.3	9.4	9.3
48	12.1	11.8	11.6	11.4	9.1	9
50	11.2	11	10.8	10.5	8.8	8.7
52	10.4	10.2	10	9.7	8.5	8.4
54	9.7	9.4	9.2	9	8.3	8.1
56	9	8.7	8.5	8.3	8	7.8
58	8.4	8.1	7.9	7.7	7.4	7.2
60	7.8	7.5	7.3	7.1	6.8	6.6
62	7.2	7	6.8	6.5	6.3	6
64	6.7	6.5	6.2	6	5.8	5.5
66	6.2	6	5.8	5.5	5.3	5
68	5.7	5.5	5.3	5	4.8	4.6
70	5.3	5.1	4.9	4.6	4.4	4.1
72		4.7	4.4	4.2	4	3.7
74		4.3	4.1	3.8	3.6	3.3
76			3.7	3.4	3.2	3
78				3.1	2.9	2.6
80					2.5	2.3
82					2.2	2
reeving	2	2	2	2	2	2

Main boom+ fixed jib mode(SF-3, main hook in operation)
rear counterweight 84t central ballast 28t included angle 10° Unit: t

jib length (m)	31									
main boom length (m) radius (m)	28	31	34	37	40	43	46	49	52	55
8	104	96.7								
9	102	94.7	88.9	83.3						
10	98.3	93	87.3	81.5	76.2	72.6				
11	88.9	86.8	84.7	80	75	71.4	67.1			
12	79.3	79.2	77.4	75.5	73.7	70.1	66.1	61.8	57.6	
14	61.6	61.9	62.1	62.3	62.3	61.3	60	58.7	56.2	51.7
16	49.5	49.7	50	50	50.1	50.2	50.2	50.2	49.6	48.6
18	40.7	40.9	41.1	41.2	41.2	41.3	41.4	41.4	41.3	41.3
20	33.9	34.2	34.4	34.4	34.4	34.5	34.6	34.6	34.5	34.5
22	28.6	28.9	29	29.1	29.2	29.2	29.2	29.2	29.2	29
24	24.4	24.6	24.8	24.8	24.9	24.9	24.9	24.9	24.8	24.8
26	20.8	21	21.2	21.3	21.3	21.4	21.4	21.3	21.3	21.2
28		18.1	18.3	18.3	18.3	18.4	18.4	18.4	18.3	18.2
30			15.8	15.8	15.8	15.8	15.9	15.8	15.8	15.7
32				13.6	13.6	13.7	13.7	13.6	13.6	13.5
34				11.7	11.7	11.8	11.8	11.7	11.7	11.6
36					10.1	10.1	10.2	10.1	10	9.9
38						8.6	8.7	8.6	8.5	8.4
40							7.4	7.3	7.2	7.1
42								6.1	6	5.9
44									5	4.8
46										4
48										3
reeving	8	8	7	7	6	6	5	5	5	4

Caution:
 1.Data in lifting capacity charts are applicable to working range of 360°.
 2.Data in lifting capacity charts includes the weight of slings and wire rope. Actual weight of load to be lifted shall be less than this value.
 3.Data in lifting capacity charts are provided on the basis of the fact that the ground is solid and flat and that the load is suspended freely and hoisted stably.
 4.Blank areas without lifting capacities are non-operation areas. It is prohibited to operate the crane within these areas.
 5.Rated load value in the table is calculated after removing luffing jib derricking winch, luffing jib rear anchoring rod and luffing jib rope guiding pulley on the head section of main boom.