ZOOMLION

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180t lifting capacity
ZCC1800H

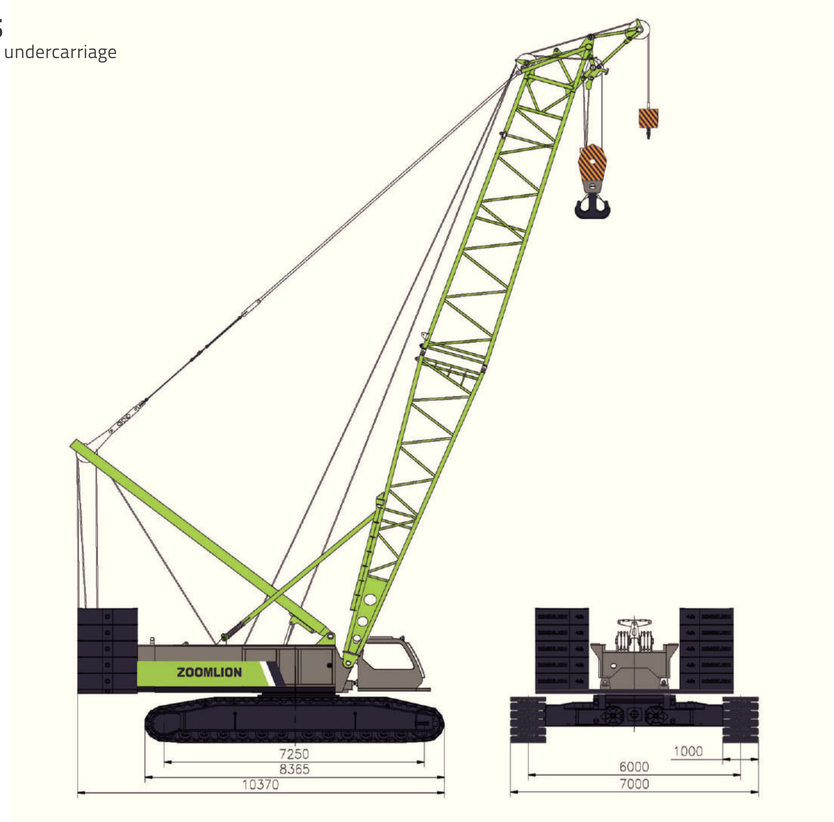


ZOOMLION

40 PRODUCTS

DIMENSIONS

Basic machine with undercarriage



DIMENSIONS

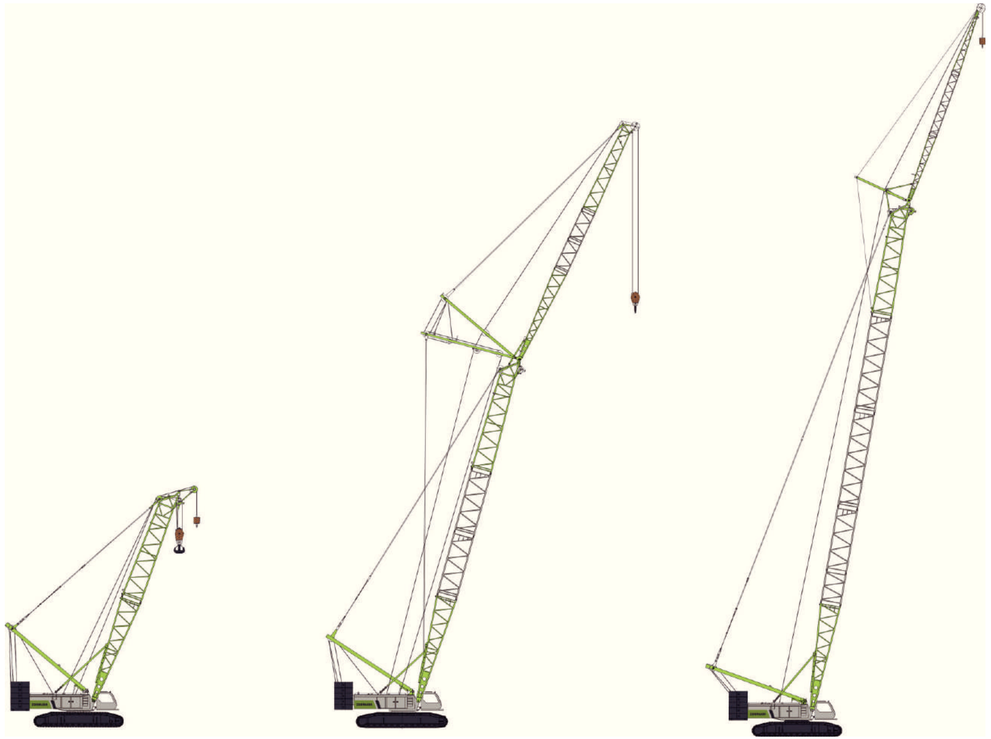
Operating weight

The operating weight includes the basic machine with crawlers,2 main winches including wire ropes(380m and 250m) and 20m main boom, consisting of Mast, boom foot (10m),boom head(10m), 57t rear counterweight .

Equipment

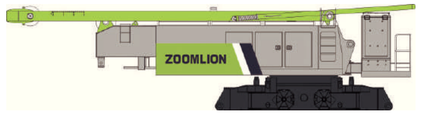
Main boom Max. Length ----------83m
Fixed jib ----------13-31m
Max. Combination of fixed jib ----------main boom 71m
----------fixed jib 31m
Luffing jib ----------24-48m
Max. Combination of luffing jib ----------main boom 53m
----------luffing jib 48m
Max. lifting moment----------1040 t.m
Max. lifting capacity on fixed jib----------25t
Max. Lifting capacity of luffing jib ----------38t

BOOM CONFIGURATIONS

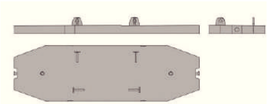


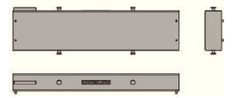
S SW SF

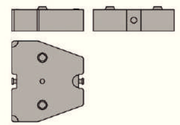
TRANSPORT DIMENSIONS AND WEIGHTS













Basic machine	
Length	12145mm
Width	3000mm
Height	3185mm
Weight	39t

Crawler carrier assy	
Length	8290mm
Width	1400mm
Height	1380mm
Weight	17t

Counterweight base plate	
Length	5580mm
Width	1700mm
Height	130mm
Weight	9t

Central counterweight	
Length	4480mm
Width	1350mm
Height	580mm
Weight	10t

Counterweight plate	
Length	1500mm
Width	1700mm
Height	510mm
Weight	4.8t

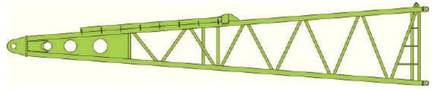
160t load hook	
Length	2180mm
Width	810mm
Height	990mm
Weight	2.34t

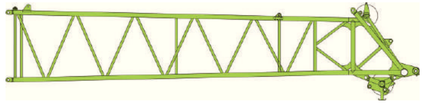
TRANSPORT DIMENSIONS AND WEIGHTS













80t load hook

Length	1900mm
Width	810mm
Height	765mm
Weight	1.71t

30t load hook

Length	1630mm
Width	780mm
Height	630mm
Weight	1.09t

12t load hook

Length	970mm
Width	390mm
Height	390mm
Weight	0.46t

Main boom pivot section

Length	10250mm
Width	2114mm
Height	1920mm
Weight	2.21t

Main boom head

Length	11055mm
Width	2114mm
Height	2606mm
Weight	2.89t

3m main boom intermediate section

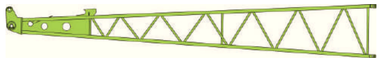
Length	3120mm
Width	2114mm
Height	1920mm
Weight	0.54t

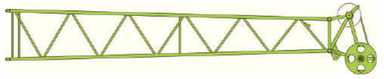
TRANSPORT DIMENSIONS AND WEIGHTS











6m main boom intermediate section

Length	6120mm
Width	2114mm
Height	1920mm
Weight	0.89t

9m main boom intermediate section

Length	9120mm
Width	2114mm
Height	1920mm
Weight	1.32t

9mA main boom intermediate section

Length	9120mm
Width	2114mm
Height	1920mm
Weight	1.63t

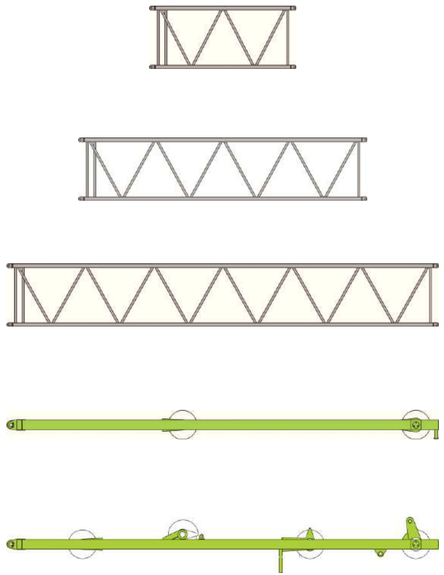
Luffing jib pivot section

Length	9220mm
Width	1306mm
Height	1310mm
Weight	0.79t

Luffing jib head section

Length	9440mm
Width	1306mm
Height	1800mm
Weight	0.89t

TRANSPORT DIMENSIONS AND WEIGHTS



3m luffing jib intermediate section

Length	3076mm
Width	1306mm
Height	1306mm
Weight	0.21t

6m luffing jib intermediate section

Length	6076mm
Width	1306mm
Height	1306mm
Weight	0.38t

9m luffing jib intermediate section

Length	9076mm
Width	1306mm
Height	1306mm
Weight	0.55t

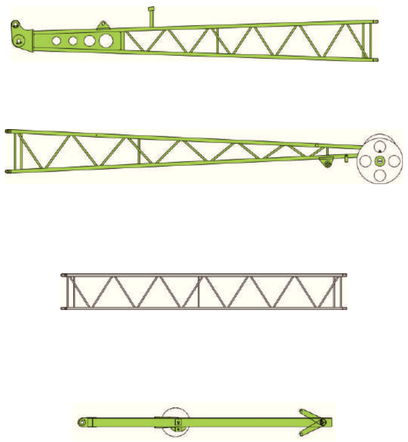
WA-frame 1

Length	9067mm
Width	1293mm
Weight	1.01t

WA-frame 2

Length	9067mm
Width	1631mm
Weight	1.22t

TRANSPORT DIMENSIONS AND WEIGHTS



Fixed jib pivot section

Length	6680mm
Width	1458mm
Height	762mm
Weight	0.436t

Fixed jib head

Length	6930mm
Width	960mm
Height	758mm
Weight	0.397t

6m fixed jib intermediate section

Length	6060mm
Width	960mm
Height	790mm
Weight	0.232t

FA-frame

Length	5281mm
Width	1457mm
Weight	0.473t

TECHNICAL DESCRIPTION

Engine

Engine type---------- WEICHAI WP10G336E344 diesel engine
• Rated power----------247kW/1900r/min
Maximum output torque---------- 1550Nm/1100-1400r/min
Fuel tank----------700L
Exhaust emission complies with complies with off-road emission (GB 20891-2014)

Hydraulic system

He crane adopts a series-connected hydraulic system with hydraulic pilot proportional control. The hydraulic system is composed of main pump, control valve, hydraulic motor, hydraulic oil tank, oil cooler and so on. The system has the advantages of high efficiency, energy-saving, smooth and safe simultaneous movements. Main control pump: dual piston variable pump with tandem gear pump, driven by the engine;
Oil cooler for hydraulic system: radiator driven by high-power hydraulic motor, 40 kW;
Hydraulic oil tank capacity: 1000 L

Hoisting winch

The crane is fitted with two hoisting winches: hoisting winch 1 and hoisting winch 2. Each of them is driven by hydraulic motor with a planet reducer which is equipped with normally closed disc brake. High hoisting speed and low hoisting speed are available for hoisting winches. The winding drum has LEBUS groove to prevent wire rope from being twisted.

Main winch

Line pull----------Max.135KN
Rope diameter----------26mm
Rope speed ---------- 0-130m/min
Rope length---------- 380m

Aux.winch

Line pull----------Max.130KN
Rope diameter----------26mm
Rope speed----------0-110m/min
Rope length----------250m

Boom winches

Boom winch consists of hoisting reducer, motor, normally closed disc brake, rope, over-discharge device, etc. High hoisting speed and low hoisting speed are available for hoisting winches. The winding drum has LEBUS groove to prevent wire rope from being twisted.

Boom winch

Line pull----------Max.130KN
Rope diameter----------26mm
Rope speed ---------- 0-30m/min
Rope length---------- 140x2m

Swing

The slewing mechanism consists of built-in axial piston dual variable displacement motor, gear reducer, slewing brake valve, brake and pinion gear as well as slewing ring. The superstructure can realize 360° continuous rotation via slewing ring which is driven by the pinion gear. The application of controllable free swing function can reduce the impacts on the crane and ensure that the slewing movements are initiated and stopped more stably. 3-row roller type, external-geared slewing ring and slewing reducer are of strong load-bearing capacity and high precision, which can ensure stable and accurate slewing motion.

Slewing speed----------0- 1.1 rpm.

Crawler

There are two hydraulic motors and two traveling reducers fitted in the travel gear. The hydraulic motor, traveling reducer and balance valve are all imported. The operator can use control levers to control the traveling movements, such as traveling straight ahead / backwards, turning with a crawler, differential steering, turning on spot, traveling with load. This kind of design enables crane to have high maneuverability.
Traveling speed---------- 0-0.5 / 0–1 km/h;
Max. Gradeability ---------- 30%;

Load hook

160 t load hook (optional): 7 pulleys
80 t load hook (optional): 3pulleys
30 t load hook (optional): 1 pulley
12 t load hook (optional): single hook

TECHNICAL DESCRIPTION

Main boom (S boom)

S-boom length: 20m- 80(83)m;
Main boom intermediate section: 3 m, 6 m and 9 m.

S-boom length (m)	Number of main boom intermediate sections for S boom			
	3m	6m	9m	9mA
20	0	0	0	0
23	1	0	0	0
26	0	1	0	0
29	1	1	0	0
32	1	0	1	0
35	0	1	1	0
38	1	1	1	0
41	1	0	2	0
44	0	1	2	0
47	1	1	2	0
50	2	1	2	0
53	1	2	2	0
56	1	1	2	1
59	2	1	2	1
62	1	2	2	1
65	1	1	3	1
68	2	1	3	1
71	1	2	3	1
74	1	1	4	1
77	2	1	4	1
80	1	2	4	1
83	1	1	5	1

Luffing jib (SW boom)

S-boom length: 32m-56m;
W-jib length: 24m-48m;
Luffing jib intermediate section: 3m, 6m, 9m;
Max. length of heavy duty boom with luffing jib: 53m+48 m / 56m +45m.

W-jib length (m)	Number of luffing jib intermediate sections for SW boom		
	3m	6m	9m
24	0	1	0
27	1	1	0
30	1	0	1
33	0	1	1
36	1	1	1
39	1	0	2
42	0	1	2
45	1	1	2
48	2	1	2

Fixed jib (SF boom)

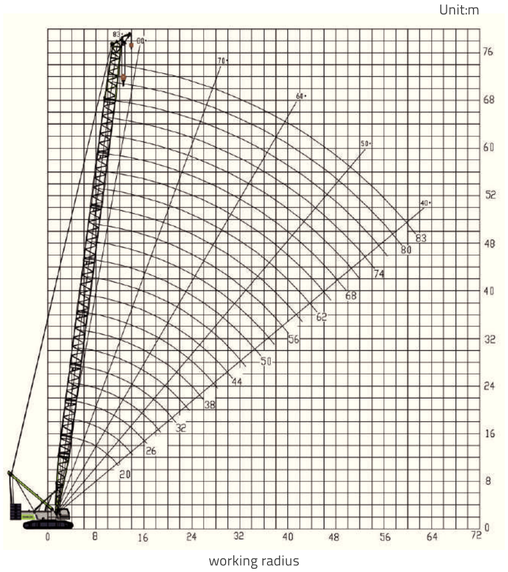
S-boom length: 47m - 71m;
F-jib length: 13m - 31m;
Fixed jib intermediate section: 6m;
Max. length of heavy duty boom with fixed jib: 71m + 31m.

F-jib length (m)	Number of fixed jib intermediate sections for SF boom
13	0
19	1
25	2
31	3

LIFTING PERFORMANCE

Main boom configuration

Lifting height curve on S boom



Note: In 83m main boom configuration, rear counterweight should be 57t+2x4.8t (need to be chosen).

Lifting capacity on S boom													
Rear ctwt.:57000kg				75%				360°			(UNIT: KG)		
MAIN BOOM LENGTH (M)													
Radius (m)	20	23	26	29	32	35	38	41	44	47	50	Radius (m)
5	180.0											5
6	168.0	152.0	144.0									6
7	147.0	144.0	138.0	133.0	128.0							7
8	130.0	129.1	127.2	125.8	122.0	115.0	110.0	102.7				8
9	113.0	111.5	109.0	108.0	105.8	104.5	102.2	98.2	92.5	86.8	78.1	9
10	96.6	95.0	95.0	95.0	93.5	91.2	89.3	88.8	87.3	82.6	75.9	10
11	85.2	84.4	83.9	83.5	82.6	81.4	79.8	79.2	77.5	75.4	73.5	11
12	74.6	74.6	73.7	72.9	72.6	72.4	71.1	70.5	69.0	68.1	67.3	12
13	67.0	67.0	66.4	66.0	65.5	65.1	64.4	63.9	63.0	61.8	61.2	13
14	60.2	60.2	60.0	59.9	59.2	58.7	58.5	58.2	57.8	56.3	55.9	14
15	55.0	54.9	54.8	54.65	54.2	53.8	53.5	53.0	52.6	51.8	51.5	15
16	50.4	50.2	50.2	50.0	49.8	49.5	48.9	48.5	48.1	47.9	47.7	16
17	46.5	46.4	46.3	46.2	46.0	45.8	45.3	44.8	44.5	44.2	44.0	17
18	43.0	43.0	42.8	42.8	42.6	42.5	42.3	41.7	41.3	41.0	40.6	18
19	40.0	40.2	40.0	39.9	39.7	39.5	39.4	39.1	38.6	38.3	37.7	19
20		37.3	37.2	37.2	37.0	36.8	36.7	36.5	36.1	35.6	35.1	20
22			32.8	32.8	32.6	32.4	32.3	32.1	31.9	31.7	31.2	22
24			29.5	29.3	29.1	28.9	28.7	28.6	28.4	28.2	28.0	24
26				26.3	26.1	25.9	25.8	25.6	25.4	25.4	25.0	26
28					23.6	23.5	23.3	23.1	22.9	22.8	22.6	28
30					21.5	21.4	21.2	21.0	20.8	20.7	20.5	30
32						19.6	19.4	19.2	19.1	18.9	18.7	32
34							17.8	17.7	17.5	17.3	17.1	34
36								16.1	16.1	15.9	15.7	36
38									14.9	14.7	14.5	38
40									13.9	13.6	13.4	40
42										12.5	12.4	42
44											11.3	44

Note: In S boom configuration, main boom can be fitted with tip boom, whose rated load is the same as that on main boom. But the maximum lifting capacity on tip boom cannot exceed 13t.

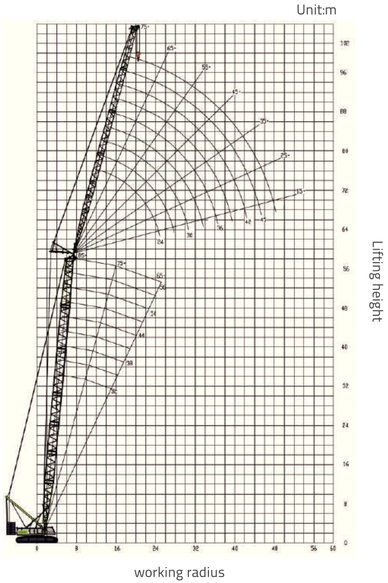
LIFTING PERFORMANCE

Lifting capacity on S boom													
Rear ctwt.:57000kg				75%				360°			(UNIT: KG)		
MAIN BOOM LENGTH (M)													
Radius (m)	53	56	59	62	65	68	71	74	77	80	83*	Radius (m)
9												9
10	71.2	66.5										10
11	68.5	64.6	61.0									11
12	65.6	62.5	59.1	55.2	51.2	46.3						12
13	60.3	58.4	56.3	53.8	50.1	46.1	42.2	37.5				13
14	54.9	53.9	52.9	51.5	48.7	45.5	41.7	37.0	33.5	31.5		14
15	51.0	50.1	49.0	48.0	46.6	44.2	40.5	36.5	33.0	31.1	27.8	15
16	47.2	46.3	45.1	44.6	43.8	42.2	39.7	35.8	32.5	30.5	27.1	16
17	43.6	42.9	42.0	41.5	40.6	39.5	38.2	35.1	31.7	29.5	25.1	17
18	40.0	39.6	38.9	38.6	37.7	37.2	36.1	34.0	31.0	28.8	23.9	18
19	37.2	36.8	36.2	35.8	35.2	34.7	34.0	32.5	30.0	27.7	23.8	19
20	34.7	34.3	33.9	33.5	32.9	32.5	32.0	30.8	29.0	27.0	23.1	20
22	31.0	30.8	30.3	30.0	29.6	29.2	28.5	27.6	27.2	25.3	22.7	22
24	27.8	27.5	27.2	26.8	26.5	25.9	25.4	24.8	24.5	23.2	21.7	24
26	24.7	24.5	24.3	24.0	23.8	23.4	23.1	22.4	22.2	21.4	21.5	26
28	22.4	22.2	22.1	21.9	21.5	21.2	20.8	20.1	19.8	19.2	19.7	28
30	20.3	20.1	20.0	19.8	19.6	19.2	18.9	18.2	17.9	17.5	18.1	30
32	18.5	18.4	18.2	18.0	17.8	17.7	17.3	16.5	16.2	16.1	17.2	32
34	17.0	16.8	16.6	16.4	16.3	15.9	15.7	15.2	14.8	14.6	15.6	34
36	15.6	15.4	15.2	15.0	14.9	14.7	14.3	13.8	13.6	13.3	14.1	36
38	14.3	14.2	14.0	13.8	13.6	13.3	13.1	12.8	12.3	12.0	12.9	38
40	13.1	13.1	12.7	12.6	12.4	12.2	12	11.7	11.3	10.9	11.6	40
42	12.2	12.0	11.9	11.7	11.5	11.2	11.0	10.7	10.3	10.0	11.1	42
44	11.3	11.2	11.0	10.8	10.6	10.3	10.1	9.8	9.5	9.1	10.1	44
46	10.3	10.3	10.1	9.9	9.8	9.6	9.4	9.1	8.7	8.5	9.1	46
48	9.5	9.3	9.1	9.1	8.9	8.7	8.5	8.2	7.9	7.7	7.8	48
50		8.3	8.2	8.1	8.0	7.8	7.6	7.4	7.2	7.0	7.1	50
52			7.5	7.3	7.3	7.1	6.9	6.6	6.5	6.4	6.5	52
54				6.8	6.7	6.6	6.4	6.2	6.0	5.9	5.9	54
56				6.2	6.1	6.0	5.9	5.7	5.5	5.4	5.4	56
58					5.5	5.4	5.4	5.2	5.0	4.8	4.8	58
60						5.0	4.8	4.6	4.5	4.5	4.3	60
62							4.2	4.0	4.1	4.0	3.9	62
64								3.4	3.5	3.6	3.4	64
66									3.3	3.3	3.0	66
68									2.9	2.8	2.7	68
70										2.5	2.3	70

Note: In S boom configuration, main boom can be fitted with tip boom, whose rated load is the same as that on main boom. But the maximum lifting capacity on tip boom cannot exceed 13t.

Luffing jib configuration

Lifting height curve on SW boom



Note: 1.Main boom length (for luffing jib configuration) is 32m-56m.
Luffing jib length is 24m-48m.
2.Max. length of main boom with luffing jib is53m+48m / 56m+45m.

LIFTING PERFORMANCE

Part of lifting capacity on SW boom

Rear ctwt.:57000kg 75% 360° (UNIT:KG)

Main boom length (m)	38															Main boom length (m)
Luffing jib length (m)	24			27			30			33			36			Luffing jib length (m)
Radius (m)	MAIN BOOM ANGLE (°)															Radius (m)
	85	75	65	85	75	65	85	75	65	85	75	65	85	75	65	
12	38.3															12
14	35.5			32.3			29.2									14
16	30.5			28.9			27.5			24.9			21.3			16
18	27.5			26.1			24.8			22.9			20.6			18
20	25.0			22.9			21.2			20.3			19.4			20
22	20.0			19.5			19.2			18.5			17.6			22
24	17.8	23.2		17.5	22.8		17.1			16.9			16.3			24
26	16.1	21.3		15.7	20.9		15.5	20.8		15.2			14.9			26
28	14.5	19.6		14.2	18.7		13.9	18.3		13.7	17.5		13.5	16.7		28
30		16.9		13.0	16.6		12.7	16.3		12.5	16.0		12.4	15.3		30
32		15.3	15.5/33		14.9		9.8	14.7		9.6	14.4		9.4	14.1		32
34		13.8	15		13.5	14.6	9.0	13.3		8.8	13.0		8.6	12.8		34
36			14.5		12.3	13.6		12.1	13.4	8.3	11.8		8.1	11.7		36
38			14			12.8		10.1	12.6		9.9	12.4	7.5	9.7		38
40			13			12.0		8.4	11.8		8.3	11.8		8.2	11.7	40
42						11.3			11.2		7.8	11.2		7.6	11.0	42
44						10.7			10.7			10.5		7.1	10.3	44
46									8.6			8.4		6.6	8.3	46
48												7.8			7.7	48
50															7.1	50

Part of lifting capacity on SW boom

Rear ctwt.:57000kg 75% 360° (UNIT:KG)

Main boom length (m)	38												Main boom length (m)
Luffing jib length (m)	39			42			45			48			Luffing jib length (m)
Radius (m)	MAIN BOOM ANGLE (°)												Radius (m)
	85	75	65	85	75	65	85	75	65	85	75	65	
16	18.9												16
18	18.4			16.3			14.0			10.1			18
20	17.6			15.7			13.6			10.1			20
22	17.0			15.2			13.3			9.7			22
24	15.5			14.6			12.9			9.5			24
26	14.2			13.5			12.5			9.4			26
28	13.2			12.5			10.4			9.2			28
30	10.1	14.7		9.9	13.6		9.6			9.0			30
32	9.2	13.4		9.1	12.8		9.0	11.6		8.5			32
34	8.5	12.3		8.5	11.8		8.3	10.8		7.8	8.4		34
36	7.9	11.4		7.7	10.2		7.6	9.1		7.2	8.3		36
38	7.4	9.5		7.2	8.6		7.0	8.4		6.6	8.0		38
40	6.8	8.1		6.6	7.9		6.5	7.8		6.1	7.3		40
42	6.3	7.4	9.3	6.3	7.3		6.1	7.2		5.7	6.8		42
44		6.9	9.3	5.9	6.8	8.7	5.7	6.6		5.5	6.3		44
46		6.4	8.1		6.3	8.0	5.5	6.1	7.9	5.1	5.8	7.4	46
48		5.9	7.6		5.8	7.4	5.1	5.7	7.3	4.7	5.3	6.8	48
50			7.0		5.4	6.8		5.3	6.8	4.5	5.0	6.3	50
52			6.5		5.3	6.4		5.1	6.3		4.8	5.8	52
54			6.1			5.9		4.8	5.8		4.5	5.4	54
56						5.6			5.4		4.2	5.2	56
58						5.3			5.2		4.0	4.8	58
60									4.8			4.5	60
62												4.3	62
64												4.0	64
66													66

LIFTING PERFORMANCE

Part of lifting capacity on SW boom

Rear ctwt.:57000kg 75% 360° (UNIT:KG)

Main boom length (m)	47												Main boom length (m)
Luffing jib length (m)	24			27			30			33			Luffing jib length (m)
Radius (m)	MAIN BOOM ANGLE (°)												Radius (m)
	85	75	65	85	75	65	85	75	65	85	75	65	
14	36.9			34.3									14
16	31.8			30.2			28.5			25.3			16
18	28.5			27.2			25.7			24.4			18
20	25.9			24.6			22.7			20.9			20
22	21.6			20.5			20.1			19.2			22
24	18.6			18.3			17.9			17.5			24
26	16.7	19.9		16.4	19.6		16.1			15.8			26
28	15.1	18.5		14.8	18.2		14.5	18.0		14.3			28
30		17.2		13.4	16.8		13.3	16.7		13.0	16.3		30
32		16.0			15.8		10.1	15.6		9.9	15.4		32
34		15.1			14.9		9.3	14.6		9.2	14.4		34
36		13.9	12.6		13.7			13.4		8.5	13.2		36
38			12.0		12.4	11.7		12.2			12.0		38
40			11.3		11.3	11.0		10.2	10.8		10.0		40
42			10.7			10.5		8.6	10.3		8.4	10.0	42
44			10.0			9.8			9.8		7.8	9.5	44
46						9.3			9.3			9.2	46
48									8.8			8.7	48
50									8.4			8.3	50
52												7.8	52
54												7.4/53	54

Part of lifting capacity on SW boom

Rear ctwt.:57000kg 75% 360° (UNIT:KG)

Main boom length (m)	47															Main boom length (m)
Luffing jib length (m)	36			39			42			45			48			Luffing jib length (m)
Radius (m)	MAIN BOOM ANGLE (°)															Radius (m)
	85	75	65	85	75	65	85	75	65	85	75	65	85	75	65	
16	22.5															16
18	20.8			18.5			16.5			14.2						18
20	20.1			17.9			15.9			13.8			10.1			20
22	18.3			17.3			15.4			13.4			9.8			22
24	16.8			16.1			14.8			13.1			9.6			24
26	15.5			14.7			14.0			12.7			9.5			26
28	14.0			13.5			12.9			10.8			9.2			28
30	12.7	16.2		12.5			10.3			10			9.0			30
32	9.9	15.1		9.6	14.8		9.4			9.2			8.8			32
34	9.0	14.1		8.8	13.6		8.6	13.0		8.5	11.7		8.1			34
36	8.3	13.0		8.1	12.5		8.0	12.0		7.9	11.3		7.4	8.5		36
38	7.7	11.8		7.5	11.6		7.4	10.3		7.3	10.4		6.8	8.3		38
40	7.2	9.9		7.0	9.7		6.8	8.7		6.7	8.6		6.3	8.1		40
42		8.3		6.5	8.1		6.5	8.0		6.2	7.9		5.8	7.4		42
44		7.7	9.3		7.6		6.0	7.4		5.8	7.3		5.5	6.8		44
46		7.1	8.8		7.0	8.7	5.7	6.8		5.6	6.8		5.3	6.3		46
48		6.6	8.6		6.5	8.4		6.3	8.1	5.3	6.3		4.9	5.8		48
50			8.3		6.1	7.9		5.9	7.8		5.8	7.6	4.5	5.4	7.4	50
52			7.6			7.4		5.6	7.3		5.4	7.3	4.4	5.2	6.8	52
54			7.1			6.9		5.3	6.8		5.2	6.7		4.8	6.3	54
56			6.6			6.4			6.3		4.8	6.2		4.5	5.8	56
58						6.0			5.9			5.7		4.3	5.3	58
60									5.5			5.3		4.0	5.1	60
62									5.3			5.2			4.8	62
64												4.8			4.5	64
68															4.0	68

LIFTING PERFORMANCE

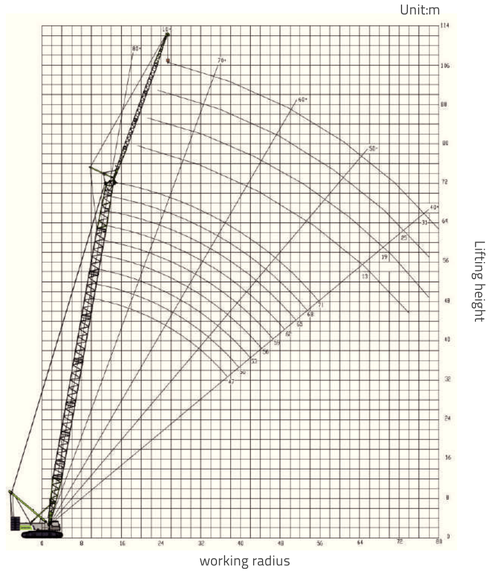
Part of lifting capacity on SW boom													
Rear ctwt.:57000kg				75%			360°					(UNIT:KG)	
Main boom length (m)	56												Main boom length (m)
Luffing jib length (m)	24			27			30			33			Luffing jib length (m)
Radius (m)	MAIN BOOM ANGLE (°)												Radius (m)
	85	75	65	85	75	65	85	75	65	85	75	65	
14	32.6												14
16	30.0			29.8			28.9			25.7			16
18	27.7			27.5			26.9			24.7			18
20	25.7			25.5			24.4			22.5			20
22	23.0			22.3			20.8			19.9			22
24	19.5			19.1			18.7			18.2			24
26	17.4			17.1			16.8			16.5			26
28	15.7	17.5		15.4			15.1			14.8			28
30		16.3		13.9	16.2		13.6	15.8		13.4			30
32		15.3		12.7	15.1		12.5	14.9		10.3	14.6		32
34		14.3			14.1		9.7	13.9		9.4	13.8		34
36		13.4			13.3			13.1		8.7	12.9		36
38		12.8			12.6			12.3		8.1	12.2		38
40			10.2		12.0			11.7			11.5		40
42			9.7		11.2	9.5		11.2			10.1		42
44			9.2			9.0		8.7	8.8		8.6		44
46			8.7			8.6			8.4		7.9		46
48			8.3			8.1			7.9		7.3	8.3	48
50						7.8			7.6			7.9	50
52									7.1			7.4	52
54									6.8			6.9	54
56												6.6	56

Part of lifting capacity on SW boom													
Rear ctwt.:57000kg				75%			360°					(UNIT:KG)	
Main boom length (m)	56												Main boom length (m)
Luffing jib length (m)	36			39			42			45			Luffing jib length (m)
Radius (m)	MAIN BOOM ANGLE (°)												Radius (m)
	85	75	65	85	75	65	85	75	65	85	75	65	
18	21.2			18.8			16.7						18
20	20.5			18.2			16.2			13.9			20
22	19.0			17.5			15.5			13.5			22
24	17.4			16.6			15.1			13.3			24
26	16.0			15.2			14.5			12.9			26
28	14.5			14.0			13.3			12.4			28
30	13.3			12.9			10.6			10.3			30
32	10.1			9.9			9.6			9.5			32
34	9.2	13.4		9.1	13.3		8.9			8.8			34
36	8.5	12.6		8.5	12.4		8.3	12.3		8.1	11.8		36
38	7.9	12.0		7.7	11.8		7.6	11.7		7.5	11.3		38
40	7.4	11.3		7.2	11.2		7.1	10.4		6.9	10.2		40
42		10.0		6.7	9.8		6.6	8.7		6.5	8.7		42
44		8.4		6.3	8.3		6.1	8.1		5.9	7.9		44
46		7.8			7.6		5.8	7.5		5.6	7.3		46
48		7.3	7.6		7.1			6.9		5.4	6.8		48
50		6.8	7.3		6.6	6.9		6.4		5.1	6.3		50
52			6.8		6.1	6.6		5.9	6.4		5.8	6.3	52
54			6.4		5.7	6.3		5.6	6.1		5.4	5.8	54
56			6.1			5.9		5.3	5.6		5.2	5.6	56
58			5.8			5.6			5.4		4.8	5.3	58
60			5.4			5.3			5.3			5.2	60
62						5.2			5.0			4.8	62
64									4.8			4.7	64
66									4.7			4.5	66
68												4.3	68

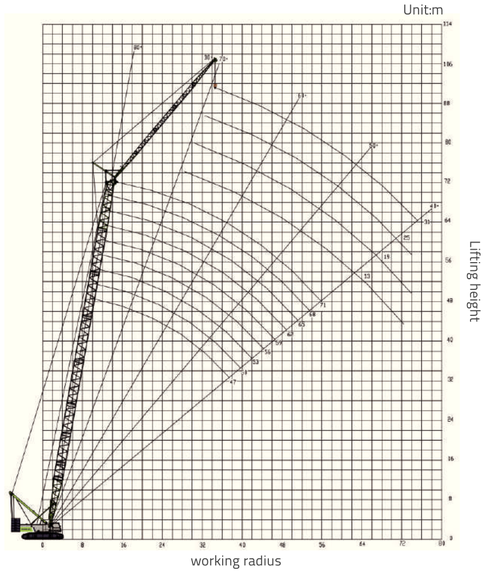
LIFTING PERFORMANCE

Main boom with fixed jib configuration

Fixed jib angle =10°
Lifting height curve on SF boom (10°)



Main boom length (m)
Lifting height curve on SF boom（10°）



Note: 1.Main boom length (for fixed jib configuration) is 47m-71m.fixed jib length is 13m-31m.
2.In 71m+31m fixed jib configuration, rear counterweight should be 57t+2x4.8t (need to be chosen) .

LIFTING PERFORMANCE

Part of lifting capacity on SF boom									
Rear ctwt.:57000kg			75%		360°			(UNIT:KG)	
Main boom length (m)	47								Main boom length (m)
Fixed jib length (m)	13		19		25		31		Fixed jib length (m)
Radius (m)	FIXED JIB ANGLE (°)								Radius (m)
	10	30	10	30	10	30	10	30	
14	25								14
16	24.5		20.7		11.7		8.0		16
18	23.7		20.2		11.6		7.6		18
20	22.7	19.8	19.7		11.5		7.4		20
22	21.6	19.4	19.2	13.2	11.4		7.3		22
24	20.5	18.7	18.8	13.1	11.2	7.8	7.1		24
26	19.5	17.8	17.8	12.9	11.1	7.5	6.8		26
28	18.6	17.1	16.9	12.7	11.0	7.3	6.4		28
30	17.9	16.0	15.9	12.4	10.9	7.1	6.1	4.2	30
32	17.1	15.1	15	12.2	10.8	6.9	5.8	4.0	32
34	16.3	13.9	14.1	11.8	10.6	6.7	5.5	3.9	34
36	15.5	12.7	13.1	11.4	10.2	6.7	5.2	3.9	36
38	14.4	12.2	12.2	11.0	9.8	6.5	4.9	3.8	38
40	13.3	11.6	11.7	10.4	9.5	6.3	4.7	3.7	40
42	12.2	10.8	11.5	9.7	9.2	6.2	4.5	3.6	42
44	11.4	9.8	11.3	8.8	8.4	6.1	4.3	3.6	44
46	10.6	8.8	10.3	7.9	7.5	6.0	4.1	3.5	46
48	9.9	8.0	10.3	7.2	6.8	5.9	4.0	3.4	48
50	9.2	7.3	9.4	6.6	6.2	5.8	3.9	3.4	50
52	8.5	6.7	9.1	6.0	5.7	5.4	3.8	3.3	52
54	7.9	6.2	8.5	5.6	5.3	5.0	3.7	3.3	54
56			7.9	5.2	5.0	4.7	3.6	3.2	56
58			7.3	4.8	4.9	4.3	3.5	3.2	58
60			6.7	4.5	4.8	4.1	3.5	3.2	60
62					4.6	3.9	3.4	3.1	62
64					4.5	3.7	3.3	3.1	64
66					4.3		3.3	3.1	66
68					4.1		3.2	3.1	68
70							3.2	3.1	70
72							3.1	3.1	72
74							3.1		74

Part of lifting capacity on SF boom									
Rear ctwt.:57000kg			75%		360°			(UNIT:KG)	
Main boom length (m)	59								Main boom length (m)
Fixed jib length (m)	13		19		25		31		Fixed jib length (m)
Radius (m)	FIXED JIB ANGLE (°)								Radius (m)
	10	30	10	30	10	30	10	30	
16	25								16
18	24.4		20.7						18
20	23.4	18.3	19.5		11.5		7.0		20
22	22.5	17.8	18.5		10.7		6.9		22
24	21.4	17.3	17.6	12.7	10.5		6.8		24
26	20.4	16.4	17	12.5	10.4	6.9	6.5		26
28	19.6	15.8	16.1	12.4	10.4	6.7	6.1		28
30	18.8	14.8	15.5	12.1	10.3	6.6	5.8	3.5	30
32	17.9	13.9	14.8	11.8	10.2	6.4	5.5	3.4	32
34	17	12.8	14.5	11.5	10.0	6.2	5.2	3.3	34
36	15.5	11.7	13.6	11.1	9.6	6.1	4.9	3.2	36
38	14.1	10.7	13.2	10.7	9.2	6.0	4.7	3.1	38
40	12.9	9.8	12.5	9.6	8.9	5.9	4.5	3.1	40
42	11.7	9.0	11.7	8.8	8.7	5.7	4.3	3.0	42
44	11	8.1	11.2	8.0	7.9	5.6	4.1	3.0	44
46	10.1	7.3	10.5	7.2	7.1	5.5	3.9	3.0	46
48	9.4	6.6	9.8	6.6	6.4	5.4	3.8	2.9	48
50	8.7	6.2	9.1	6.2	6.2	5.3	3.7	2.9	50
52	7.9	5.8	8.4	5.7	5.9	5.0	3.6	2.8	52
54	7.3	5.5	7.8	5.4	5.8	4.6	3.5	2.7	54
56	6.7	5.1	7.3	5.1	5.5	4.3	3.4	2.7	56
58	6.3	4.9	6.3	4.6	5.4	4.0	3.3	2.7	58
60	5.8	4.6	5.7	4.4	5.3	3.7	3.3	2.6	60
62	5.3	4.3	5.3	4.2	5.2	3.6	3.2	2.6	62
64	4.9	4.1	4.9	4.1	5.1	3.4	3.1	2.6	64
66			4.7	3.8	4.9	3.3	3.1	2.5	66
68			4.3	3.4	4.5	3.2	3.0	2.5	68
70			3.9	3.2	4.4	3.1	3.0	2.5	70
72					4.1	3.0	2.9	2.5	72
74					3.8	2.9	2.9	2.5	74
76					3.3	2.8	2.9	2.5	76
78							2.6	2.5	78

LIFTING PERFORMANCE

Part of lifting capacity on SF boom									
Rear ctwt.57000kg			75%		360°			(UNIT:KG)	
Main boom length (m)	71								Main boom length (m)
Fixed jib length (m)	13		19		25		31		Fixed jib length (m)
Radius (m)	FIXED JIB ANGLE (°)								Radius (m)
	10	30	10	30	10	30	10	30	
18	25								18
20	24.1		20.5						20
22	23.5	17.0	19.1		11.4				22
24	22.8	16.4	18.5	12.2	11.4				24
26	22	15.6	18.1	12.0	10.6	6.6	6.2		26
28	20.9	15.0	16.5	11.9	10.4	6.5	5.8		28
30	19.6	14.1	16.1	11.6	9.9	6.3	5.6		30
32	17.9	13.3	15.6	11.4	9.5	6.1	5.3	3.3	32
34	16.2	12.2	15	11.0	9.1	6.0	5.0	3.2	34
36	14.7	11.1	14.9	10.7	8.7	6.0	4.7	3.1	36
38	13.6	10.2	13.5	10.3	8.5	6.0	4.5	3.0	38
40	12.3	9.4	12.6	9.0	8.1	6.0	4.3	3.0	40
42	11.2	8.6	11.7	8.1	7.7	6.0	4.1	3.0	42
44	10.2	7.8	10.6	7.5	7.5	5.8	4.0	3.0	44
46	9.3	7.0	9.6	6.9	7.1	5.6	3.9	3.0	46
48	8.5	6.4	8.8	6.4	6.7	5.4	3.8	3.0	48
50	7.9	5.9	7.9	5.9	6.4	5.2	3.7	2.9	50
52	7.2	5.6	7.1	5.6	6.1	5.0	3.6	2.8	52
54	6.6	5.2	6.6	5.2	5.8	4.8	3.4	2.8	54
56	6	4.8	6.1	4.7	5.5	4.4	3.3	2.7	56
58	5.6	4.5	5.6	4.4	5.4	4.0	3.2	2.6	58
60	5.1	4.4	5	4.2	5.3	3.6	3.2	2.5	60
62	4.4	4.3	4.6	3.8	5.1	3.4	3.1	2.5	62
64	4.1	4.0	4.3	3.4	4.7	3.3	3.0	2.5	64
66	3.6	3.8	3.9	3.0	4.3	3.2	3.0	2.4	66
68	3.2	3.5	3.5	2.7	4.1	2.9	2.9	2.4	68
70	3.1	3.2	3.3	2.4	3.7	2.6	2.6	2.3	70
72	2.6	2.9	3.1	2.3	3.3	2.3	2.3	2.3	72
74	2.5	2.6	3	2.0	2.9	2.0	2.1	2.0	74
76			2.3		2.5		2		76
78			2		2.3		1.9		78
80							1.8		80