ZOOMLION

Zoomlion Heavy Industry Science & Technology Co.,Ltd.

Add: Zoomlion Overseas Building, No.613, 3rd Section, Furong Middle Road, Yuhua District, Changsha, Hunan, P.R.China 410205

Printed in China VN: EN-MC-20160401

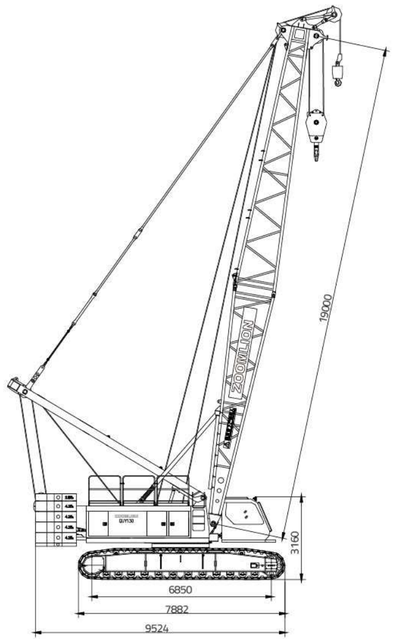
CRAWLER CRANE
QUY130

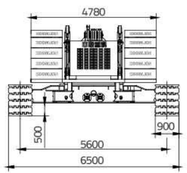
ZOOMLION

en.zoomlion.com

Overall Dimensions and Main Parameters

Overall Dimensions of Basic Machine, including Basic Boom





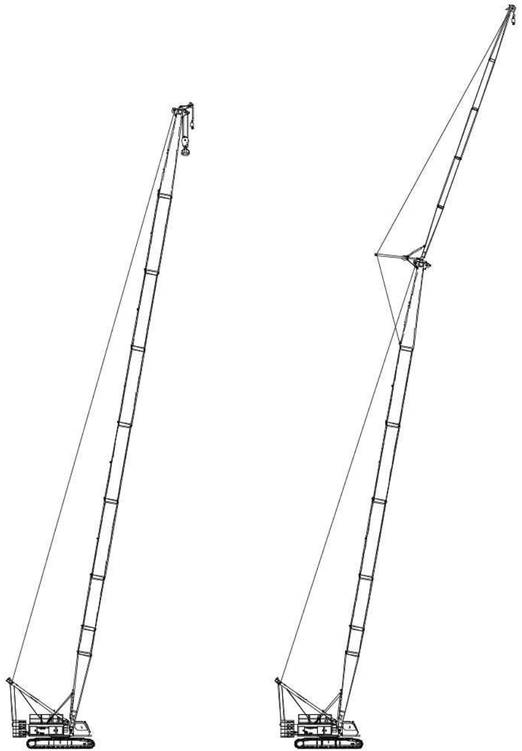
Main Performance Parameters

Item		Unit	Value	Remarks
Maximum lifting capacity × radius		t × m	130 × 4.5	
Maximum lifting moment		t × m	661.5	94.5 (lifting capacity × 7radius)
Deadweight of crane with basic boom		t	113.8	
Length of main boom		m	19~73	
Length of fixed jib		m	13~31	
Maximum lifting capacity with fixed jib		t	13	
Fixed jib angle		°	10, 30	
Maximum length of main boom + fixed jib		m	55 + 31, 58 + 25, 61 + 19	
Single rope speed of winches	Main winch (hoisting winch 1)	m/min	105	Outermost layer of drum
	Auxiliary winch (hoisting winch 2)	m/min	93	Outermost layer of drum
	Derricking winch	m/min	52	Outermost layer of drum
Slewing speed		r/min	0~2.2	
Traveling speed		km/h	0~1.3	
Gradeability		%	30	
Ground pressure		MPa	0.1	
Overall dimensions L × W × H		m	9.55 × 6.5 × 3.2	Without A-frame and boom frame
Engine	Rated power/rotational speed	kW/rpm	209/2000	
	Maximum output torque/rotational speed	Nm/rpm	1424/1400	
	Exhaust emission standard		U.S. EPA Tier III	
Distance between track centers × crawler contact length × crawler shoe width		mm	5600 × 6850 × 900	

Description of Boom Assembly

Descriptions of Boom Assembly Codes

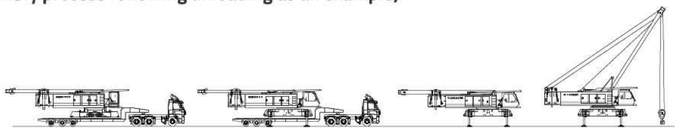
Code	Type	Operation mode parameters
S	Main boom	S=19m~73m
SF	Fixed jib	S=40m~61m F=13m~31m



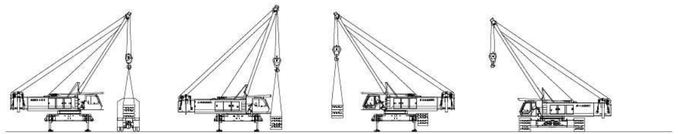
S SF

Self-Assembly and Dismantling Functions

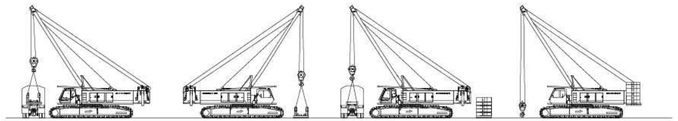
(Taking the self-assembly process following unloading as an example)



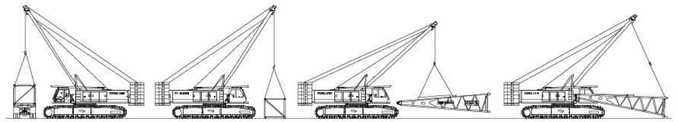
Unloading of basic machine



Unloading and assembling of crawler carrier



Unloading and assembling of counterweight base plate and counterweight

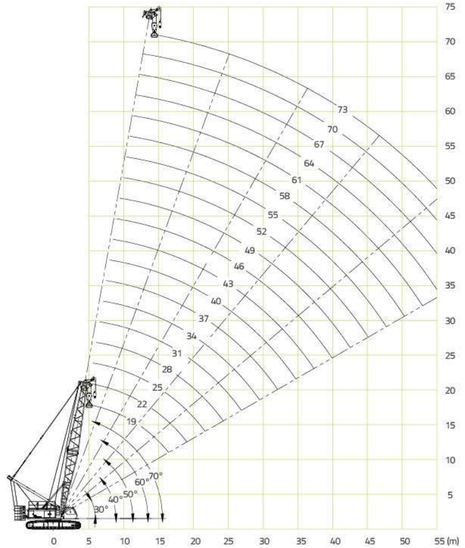


Unloading and assembling of boom

Lifting Performance

Lifting Characteristics of Main Boom (S Boom)

Main Boom Lifting Height Characteristics Curve



Notes:

1. The working radius is shown along the horizontal axis, the lifting height is shown along the vertical axis, and the unit of measurement is meter (unit: m).
2. The working length of the main boom during crane operations with the main boom is 19~73m.
3. The main boom height curves diagram does not include the influence of boom deflection.

Table of Main Boom Lifting Performance (I) (S Boom) Unit: t

Length of main boom (m)	19	22	25	28	31	34	37	40	43
Radius (m)									
4.5	130								
5	110								
6	100	100	97.5						
7	94.5	93	91	89					
8	79.3	78.5	78.4	78	78	70			
9	66.4	66.4	66.4	66.4	66.4	66.3	66.3	58	
10	56.9	56.9	56.9	56.9	56.8	56.8	56.7	56.7	53
12	44.1	44.1	44.1	44	44	43.9	43.8	43.8	43.7
14	35.8	35.8	35.8	35.8	35.7	35.6	35.6	35.4	35.3
16	30.1	30.1	30.1	30.1	29.9	29.8	29.7	29.6	29.6
18	27.6/17m	25.8	25.8	25.7	25.6	25.6	25.5	25.4	25.3
20		22.6	22.6	22.4	22.4	22.3	22.2	22.1	22
22			19.9	19.9	19.7	19.7	19.6	19.5	19.4
24				17.8	17.6	17.6	17.5	17.4	17.3
26				16.8/25m	15.9	15.9	15.8	15.6	15.5
28					14.5	14.4	14.2	14.1	14.1
30						13.1	13.1	12.9	12.8
32							11.6	11.5	11.5
34							11.4/33m	10.5	10.5
36								10.1/35m	9.5
38									8.9

Table of Main Boom Lifting Performance (II) (S Boom) Unit: t

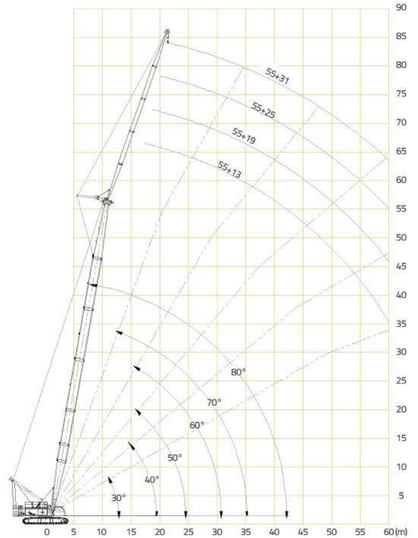
Length of main boom (m)	46	49	52	55	58	61	64	67	70	73
Radius (m)										
10	48	46.4								
12	43.5	43.5	43.4	41.7	37					
14	35.3	35.2	35.1	35	34.7	32.2				
16	29.5	29.4	29.2	29.2	29.1	29	26.8	28.3	23.8	19
18	25.3	25.1	25	24.9	24.8	24.7	24.6	26	21.2	18.1
20	22	21.9	21.7	21.6	21.5	21.4	21.3	22.6	19.2	17.2
22	19.3	19.2	19	19	18.9	18.8	18.7	19.4	17.3	15.6
24	17.2	17.1	16.9	16.9	16.8	16.3	16.1	16.9	15.8	14.4
26	15.5	15.3	15.2	14.9	14.7	14.5	14.3	14.8	13.9	13.8
28	14	13.5	13.4	13.4	13.1	13	12.7	13.1	12.3	12.1
30	12.5	12.3	12.1	2	11.7	11.6	11.3	11.6	11	10.8
32	11.3	11.2	10.9	10.8	10.6	10.4	10.3	10.4	9.8	9.6
34	10.3	10.2	9.9	9.8	9.6	9.4	9.2	9.3	8.7	8.6
36	9.4	9.2	9	9	8.6	8.5	8.3	8.4	7.9	7.7
38	8.7	8.4	8.2	8.1	7.9	7.7	7.6	7.6	7.1	6.9
40	7.9	7.7	7.6	7.5	7.1	7	6.8	6.8	6.4	6.2
42	7.7/41m	7	6.9	6.8	6.6	6.4	6.2	6.2	5.7	5.5
44		6.8/43m	6.4	6.3	5.9	5.8	5.6	5.6	5.2	5
46			5.8	5.7	5.4	5.3	5.1	5	4.6	4.4
48				5.2	5	4.8	4.6	4.6	4.2	4
50					4.5	4.3	4.2	4.2	3.8	3.6
52					4.4/51m	4	3.8	3.8	3.3	
54						3.7	3.5	3.5	3	
56							3.1	3.1	2.6	
58								2.9	2.4	
60								2.6/59m	2.1	
62									1.8/61m	

Notes:

1. During crane operation with gooseneck boom: the lifting capacity is equal to the lifting capacity of the main boom at the same radius, but must not exceed the maximum of 13 tons;
2. While crane with the gooseneck boom is used, the main boom and gooseneck boom may not operate at the same time;
3. The load on the main boom with a gooseneck boom is consistent with the load on the main boom without a gooseneck boom.

Lifting Performance of Main Boom + Fixed Jib (SF Boom)

Main Boom + Fixed Jib Lifting Height Characteristics Curve (I) (SF Boom)

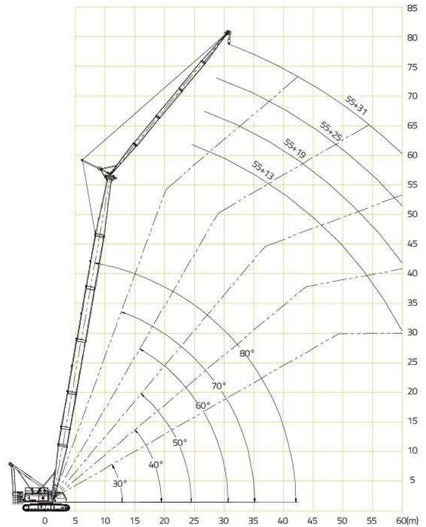


When the angle between the fixed jib and main boom is 10°

Notes:

1. The working radius is shown along the horizontal axis, the lifting height is shown along the vertical axis, and unit of measurement is meter (unit: m).
2. The working length of the main boom during crane operations with fixed jib is 40~61m, and the working length of the fixed jib is 13~31m.

Main Boom + Fixed Jib Lifting Height Characteristics Curve (II) (SF Boom)



When the angle between the jib and main boom is 30°

Notes:

1. The working radius is shown along the horizontal axis, the lifting height is shown along the vertical axis, and unit of measurement is meter (unit: m).

2. The working length of the main boom during crane operations with fixed jib is 40~61m, and the working length of the fixed jib is 13~31m.

Table of Fixed Jib Lifting Performance (I) (SF Boom) Unit: t

Length of main boom (m)	40							
Length of fly jib (m)	13		19		25		31	
	Jib set angle (°)							
Radius	10°	30°	10°	30°	10°	30°	10°	30°
14	13.0							
16	13.0	13.0						
18	13.0	12.6	12.6					
20	13.0	12.0	12.5	11.6	9.9		6.6	6.6
22	13.0	12.0	12.5	11.4	9.6		6.4	6.4
24	13.0	12.0	12.5	11.3	9.4	8.1	6.2	6.2
26	13.0	12.0	11.7	11.2	9.2	7.9	6.0	6.0
28	13.0	11.7	11.3	11.0	9.0	7.7	5.8	5.8
30	12.0	10.9	10.6	10.6	8.8	7.6	5.6	5.6
32	11.7	10.0	9.5	9.5	7.9	7.4	5.3	5.3
34	10.6	9.2	8.8	8.8	7.8	7.2	5.2	5.2
36	9.6	9.2	8.2	8.2	7.4	7.1	5.0	5.0
38		9.2		8.0		7.0	4.8	4.8
40		9.1		7.4		6.8		4.7
42		8.4		6.8		6.5		4.5
44		7.8		6.3		6.3		4.4
46				5.7		6.2		4.3
48				5.3		5.5		4.1
50				4.9		5.2		4.0
52						4.7		
54						4.5		
56						4.1		

Notes: The data in the table below is for the main boom without the main hook

Table of Fixed Jib Lifting Performance (II) (SF Boom) Unit: t

Length of main boom (m)	43							
Length of fly jib (m)	13		19		25		31	
	Jib set angle (°)							
Radius	10°	30°	10°	30°	10°	30°	10°	30°
16	13.0	12.8						
18	13.0	12.6	12.6					
20	13.0	12.0	12.5	11.6			6.6	6.6
22	13.0	12.0	12.5	11.5	9.7	8.4	6.4	6.4
24	13.0	12.0	12.5	11.3	9.5	8.2	6.3	6.3
26	13.0	11.7	11.7	11.2	9.3	8.0	6.1	6.1
28	13.0	11.5	11.3	11.0	9.1	7.8	5.9	5.9
30	12.0	10.6	10.6	10.6	9	7.6	5.7	5.7
32	11.1	9.9	9.5	9.5	8.1	7.5	5.5	5.5
34	10.1	9.2	8.8	8.8	7.8	7.3	5.3	5.3
36	9.2	9.2	8.2	8.2	7.6	7.2	5.1	5.1
38	8.8	9.2		7.9	7.3	7.0	4.9	4.9
40		7.5		7.3		6.6		4.8
42		7.4		6.7		6.4		4.6
44		6.5		6.2		6.2		4.5
46		5.9		5.6		5.9		4.4
48				5.2		5.4		4.2
50				4.8		5.1		4.1
52				4.5		4.6		3.9
54						4.4		
56						4.0		
58						3.7		

Table of Fixed Jib Lifting Performance (III) (SF Boom) Unit: t

Length of main boom (m)	46							
Length of fly jib (m)	13		19		25		31	
	Jib set angle (°)							
Radius	10°	30°	10°	30°	10°	30°	10°	30°
16	12.5							
18	12.5	12.5	12.5					
20	12.5	12.0	12.5					
22	12.5	12.0	12.5	11.5	9.8		6.4	6.4
24	12.2	12.0	12.0	11.3	9.6	8.2	6.3	6.3
26	12.2	11.7	11.7	11.2	9.4	8.0	6.2	6.2
28	12.2	11.3	11.4	11.0	9.2	7.9	6.0	6.0
30	12.0	10.6	10.4	10.4	9.0	7.7	5.8	5.8
32	10.9	9.5	9.5	9.5	8.8	7.5	5.6	5.6
34	9.9	8.8	8.8	8.8	8.0	7.4	5.4	5.4
36	9.1	8.7	8.1	8.1	7.7	7.2	5.2	5.2
38	8.3	8.3	7.7	7.8	7.4	7.1	5.0	5.0
40	7.5	7.5	7.7	7.2	6.9	7.0	4.9	4.9
42	7.4	7.4	7.7	6.6	6.4	6.4	4.7	4.7
44		6.5		6.1		6.1	4.6	4.6
46		5.9		5.5		5.9		4.4
48		4.8		5.1		5.4		4.2
50				4.7		4.9		3.9
52				4.4		4.5		3.7
54				4.0		4.3		3.6
56						3.9		
58						3.6		
60						3.3		

Table of Fixed Jib Lifting Performance (IV) (SF Boom) Unit: t

Length of main boom (m)	49							
Length of fly jib (m)	13		19		25		31	
	Jib set angle (°)							
Radius	10°	30°	10°	30°	10°	30°	10°	30°
16	12.5							
18	12.5	12.5						
20	12.5	12.0	12.5					
22	12.5	12.0	12.5	11.5	9.9		6.6	6.6
24	12.2	12.0	12.0	11.3	9.7		6.4	6.4
26	12.2	11.7	11.9	11.2	9.5	8.1	6.2	6.2
28	12.2	11.3	11.0	11.0	9.3	7.9	6.1	6.1
30	11.9	10.2	9.9	9.9	9.1	7.7	5.9	5.9
32	11.7	9.5	9.1	9.1	9	7.6	5.6	5.6
34	10.6	8.8	8.5	8.5	8.1	7.4	5.5	5.5
36	9.6	8.7	7.9	7.9	7.9	7.3	5.3	5.3
38	8.7	8.1	7.7	7.6	7.2	7.2	5.1	5.1
40	8.0	7.4	7.7	7.1	6.7	6.7	5.0	5.0
42	7.2	6.7	7.1	6.5	6.3	6.3	4.8	4.8
44	6.6	6.5	6.8	6.0		6.2	4.6	4.6
46		5.9		5.4		5.7		4.4
48		4.7		5.0		5.3		4.0
50		4.4		4.6		4.8		3.8
52		4.0		4.3		4.5		3.7
54				3.9		4.1		3.6
56				3.6		3.8		3.5
58				3.3		3.5		
60						3.2		

Table of Fixed Jib Lifting Performance (V) (SF Boom) Unit: t

Length of main boom (m)	52							
Length of fly jib (m)	13		19		25		31	
	Jib set angle (°)							
Radius	10°	30°	10°	30°	10°	30°	10°	30°
18	12.5	12.5						
20	12.5	12.0	12.5					
22	12.5	12.0	12.5	11.5	9.9		6.6	6.6
24	12.0	12.0	11.7	11.3	9.7		6.4	6.4
26	11.7	11.7	11.5	11.2	9.5	8.1	6.3	6.3
28	11.7	10.9	10.6	10.6	9.4	8.0	6.1	6.1
30	11.7	9.9	9.9	9.9	9.2	7.8	5.9	5.9
32	11.7	9.1	8.8	8.8	8.8	7.6	5.7	5.7
34	10.6	8.6	8.3	8.3	8.3	7.5	5.5	5.5
36	9.6	8.5	7.6	7.6	7.6	7.4	5.4	5.4
38	8.7	8.0	7.5	7.5	7.2	7.2	5.2	5.2
40	8.0	7.2	7.4	6.9	6.5	6.5	5.0	5.0
42	7.2	6.6	6.8	6.4	6.2	6.2	4.9	4.9
44	6.6	6.0	6.2	6.1	5.6	5.6	4.7	4.7
46	6.0	5.9	6.1	5.4	5.2	5.2	4.3	4.3
48	5.7	4.9		4.9		5.1	4.0	4.0
50		4.9		4.5		4.7	3.7	3.7
52		3.9		4.1		4.4		3.4
54		3.6		3.8		4.0		3.0
56				3.5		3.7		2.8
58				3.2		3.4		2.5

Table of Fixed Jib Lifting Performance (VI) (SF Boom) Unit: t

Length of main boom (m)	55							
Length of fly jib (m)	13		19		25		31	
	Jib set angle (°)							
Radius	10°	30°	10°	30°	10°	30°	10°	30°
18	12.5	12.5						
20	12.5	12.0	12.5					
22	12.5	12.0	12.3	11.5			6.7	6.7
24	12.0	12.0	11.7	11.3	9.8		6.6	6.6
26	11.7	11.7	11.3	11.2	9.6	8.2	6.4	6.4
28	11.7	10.6	10.3	10.3	9.4	8	6.3	6.3
30	11.6	9.9	9.9	9.9	9.3	7.8	6.2	6.2
32	10.5	8.8	8.8	8.8	8.8	7.7	6.0	6.0
34	9.5	8.6	8.1	8.1	8.1	7.6	5.8	5.8
36	8.7	8.6	7.6	7.6	7.6	7.4	5.6	5.6
38	7.9	7.9	7.6	7.2	6.9	6.9	5.5	5.5
40	7.1	7.1	7.4	6.7	6.5	6.5	5.3	5.3
42	6.5	6.5	6.8	6.2	5.8	5.8	5.1	5.1
44	6.0	5.9	6.3	6.1	5.4	5.4	4.9	4.9
46	5.4	5.4	5.8	5.4	5.0	5.0	4.4	4.4
48	5.0	4.9	5.3	4.9	4.9	4.9	4.1	4.1
50	4.9	4.9	5.2	4.5		4.6	3.9	3.9
52		4.2		4.0		4.3		3.5
54		3.4		3.6		3.9		3.3
56		3.1		3.4		3.6		
58				3.1		3.3		

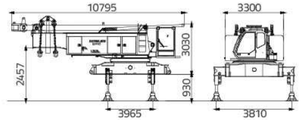
Table of Fixed Jib Lifting Performance (VII) (SF Boom) Unit: t

Length of main boom (m)	58					
Length of fly jib (m)	13		19		25	
	Jib set angle (°)					
Radius	10°	30°	10°	30°	10°	30°
18	12.5					
20	12.5	12.0	12.5			
22	12.5	12.0	12.3			
24	12.0	12.0	11.7	11.3	9.6	
26	11.7	11.7	10.9	10.9	9.5	
28	11.7	10.6	10.2	10.2	9.3	8.0
30	11.4	9.5	9.1	9.1	9.1	7.9
32	10.3	8.8	8.5	8.5	8.5	7.7
34	9.4	8.6	8.0	8.0	8.0	7.6
36	8.5	8.5	7.7	7.6	7.2	7.2
38	7.7	7.7	7.7	7.1	6.7	6.7
40	6.9	6.9	7.3	6.5	6.2	6.2
42	6.3	6.3	6.7	6.1	5.8	5.8
44	5.8	5.8	6.1	6.1	5.3	5.3
46	5.2	5.2	5.6	5.6	4.9	4.9
48	4.8	4.7	5.1	5.1	4.9	4.9
50	4.3	4.3	4.6	4.6	4.9	4.5
52	4.2	4.2	4.5	4.0	4.9	4.2
54		3.3		3.6		3.8
56		3.0		3.3		3.5
58		2.7		2.9		3.2

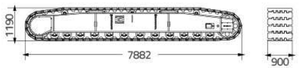
Table of Fixed Jib Lifting Performance (VIII) (SF Boom) Unit: t

Length of main boom (m)	61			
Length of fly jib (m)	13		19	
	Jib set angle (°)			
Radius	10°	30°	10°	30°
18	12.0			
20	12.0	12.0		
22	12.0	12.0	12.0	
24	12.0	12.0	11.7	11.1
26	11.7	11.7	10.9	10.9
28	11.7	10.6	9.9	9.9
30	11.2	9.5	8.8	8.8
32	10.1	8.8	8.3	8.3
34	9.2	8.6	7.6	7.6
36	8.3	8.3	7.6	7.6
38	7.4	7.4	7.6	7.1
40	6.8	6.7	7.1	6.5
42	6.1	6.2	6.5	6.3
44	5.5	5.6	5.9	5.8
46	5.0	5.2	5.4	5.4
48	4.5	4.7	4.9	5
50	4.1	4.3	4.4	4.5
52	3.7	3.9	4.0	4.2
54	3.5	3.3	3.8	3.8
56		3.0		3.5
58		2.7		3.1
60		2.6		2.8
62				2.6

Transport Dimensions and Weights of Main Components (Unit: mm)

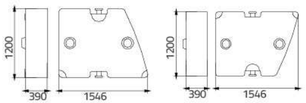


Name	Basic machine
Weight	35t × 1

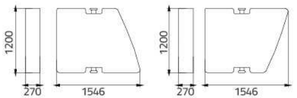


Name	Crawler carrier
Weight	14.5t × 2

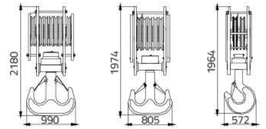
Name	Counterweight base plate
Weight	7.06t × 1



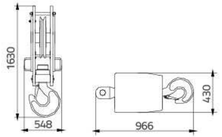
Name	Counterweight block
Weight	4.25t
Quantity	4 pieces each



Name	Counterweight block
Weight	2.95t
Quantity	1 piece each

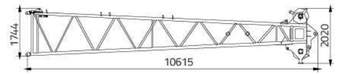


Name	Load hook (160T load hook)	Load hook (100T load hook)	Auxiliary hook (50T load hook)
Weight	2.377t × 1	1.93t × 1	1.358t × 1

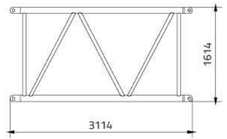


Name	Auxiliary hook (30T load hook)	Auxiliary hook (12T load hook)
Weight (t)	0.762t × 1	0.461t × 1

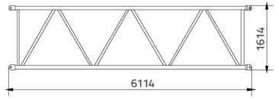
Name	Bottom section of main boom (width 1802)
Weight (t)	1.58t × 1



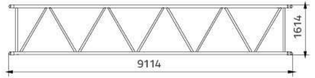
Name	Top section of main boom (width 1802)
Weight (t)	2.02t × 1



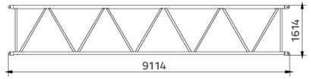
Name	3M main boom intermediate section (width 1802)
Weight (t)	0.48t × 1



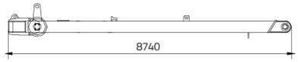
Name	6M main boom intermediate section (width 1802)
Weight (t)	0.82t × 1



Name	9M main boom intermediate section A (width 1802)
Weight (t)	1.167t × 2

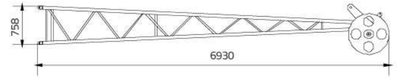


Name	9M main boom intermediate section (width 1802)
Weight (t)	1.092t × 3

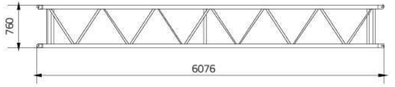


Name	A-frame (width 1560)
Weight (t)	2.24t × 1

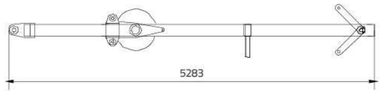
Name	Bottom section of fixed jib (width 960)
Weight (t)	0.325t × 1



Name	Top section of fixed jib (width 960)
Weight (t)	0.421t × 1



Name	6M fixed jib intermediate section (width 960)
Weight (t)	0.239t × 3



Name	Bracing pole of fixed jib (width 812)
Weight (t)	0.48t × 1