ZOOMLION

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ZOOMLION CRAWLER CRANE
ZCC3500V



ZOOMLION

VISION CREATES FUTURE

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ZOOMLION CRAWLER CRANE
ZCC3500V TECHNICAL HIGHLIGHTS

Peformance
- powerful lifting capacity
- High-speed winch mechanism
- Excellent micro performance

Appearance Design
- New environmentally friendly, stylish texture new painting

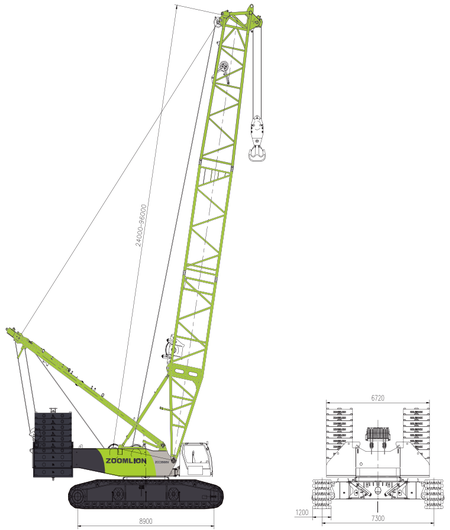
Divice Configuration
- Load sensitive hydraulic proportional main valve is applied to provide good micro-mobility and energy efficient
- The use of world-class brand Linde hydraulic ensures more stable , reliable and durable

Confortable Operation
- 10.4 inch color display
- Adjustable dual-rail spring-mounted and hydraulically cushioned operator's seat is suitable for any operator height or size
- Ergonomically arranged control console and joysticks can relieve operator's fatigue
- The cab can be tilted for 0-20° to improve operator's field of vision and decrease the operation intensity

Smart Technologies
- Overall Monitoring By Mobile App Based On Internet Of Things

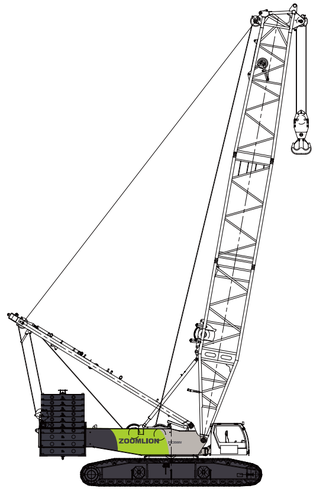
DIMENSIONS

Item		Unit	Parameter
Max.lifting capacity/radius/boom length		t/m/m	350/6/24
Max.lifting torque		t.m	2366
Boom length		m	24~96
Length of light duty boom		m	74~116
Length of luffing jib		m	23 65
Max.lifting capacity of luffing jib		t	131
Main boom angle(with luffing jib)		°	65~85
Main boom length （with luffing jib)		m	30~60
Max.length of main boom+luffing jib		m	60+65
Working condition of shield construction		m	24+8/24+11
Single rope speed of winch	Main hoisting winch	m/min	140
	Auxiliary hosing winch	m/min	130
	Main boom derricking winch	m/min	2×42
Luffing jib derricking winch		m/min	50
Max.slewing speed		rpm	1.0
Max.driving speed		km/h	1.0
Gradeability		%	20
Ground pressure		MPa	0.146
Deadweight of crane with basic boom		t	320
Max.transport weight of single piece		t	40.7(Without A-frame and winch)
Engine	Manufacturer / model		WEICHAI/WP12
	Rated power / rotational speed	kW/rpm	318/1900
	Max. Output torque / rotational speed	Nm/rpm	2060/(1000~1400)
Exhaust emission			GB Ⅲ

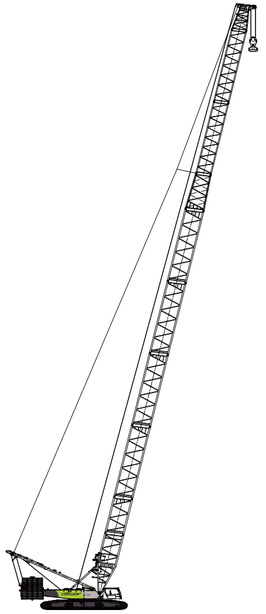


BOOM CONBINATION

Configuration No.	Description	Parameters
S	Heavy duty boom	S=24m~96m
SL	Light duty boom	SL=74m ~116m
SW	Luffing jib on heavy duty boom	S=30m~ 60m W=23m~65m
SFV	Heavy fixed jib on heavy duty boom	S=24m F=8 m/11m

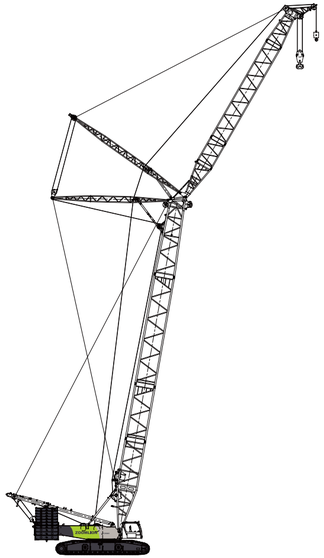


S

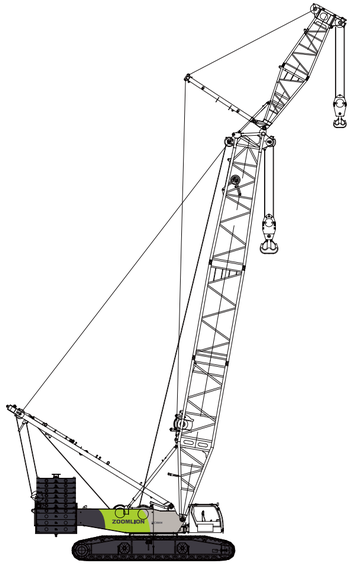


SL

BOOM CONBINATION



SW



SFV

TECHNICAL FEATURE

Heavy duty boom

Table of boom length conbination during crane operation with heavy duty boom

Length Of Main Boom(m)	Intermediate section of main boom	
	6m	12m
24	1	0
30	0	1
36	1	1
42	0	2
48	1	2
54	0	3
60	1	3
66	0	4
72	1	4
78	0	5
84	1	5
90	0	6
96	1	6

Luffing jib on heavy duty boom

Table of boom length conbination during crane operation with Luffing jib on heavy duty boom

Length of luffing jib (m)	Intermediate section of luffing jib			
	3m	6m	12m Heavy duty intermediate section	12m Light duty intermediate section
23	1	0	1	0
29	1	1	1	0
35	1	0	2	0
41	1	1	2	0
47	1	0	2	1
53	1	1	2	1
59	1	0	2	2
65	1	1	2	2

Heavy fixed jib on heavy duty boom

Table of boom length conbination during crane operation withHeavy fixed jib on heavy duty boom

Length of main boom (m)	Intermediate section of main boom
	6m
24	1

Length of luffing jib (m)	Intermediate section of luffing jib
	3m
8	0
11	1

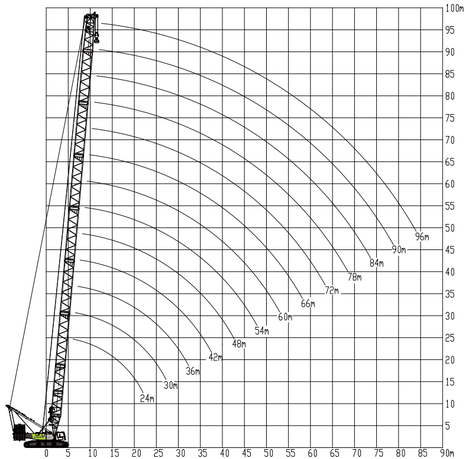
Light duty boom

Table of boom length conbination during crane operation with Light duty boom

Length of light duty boom (m)	Intermediate section of Light duty boom				
	6m	12m	6m transition section	6m intermediate section of luffing jib	12m intermediate section of heavy duty luffing jib
74	1	4	1	0	0
80	0	5	1	0	0
86	1	4	1	0	1
92	1	4	1	1	1
98	1	4	1	0	2
104	0	5	1	0	2
110	1	5	1	0	2
116	1	5	1	1	2

LIFTING PERFORMANCE

Lifting performance on S boom　Lifting height curves on S boom

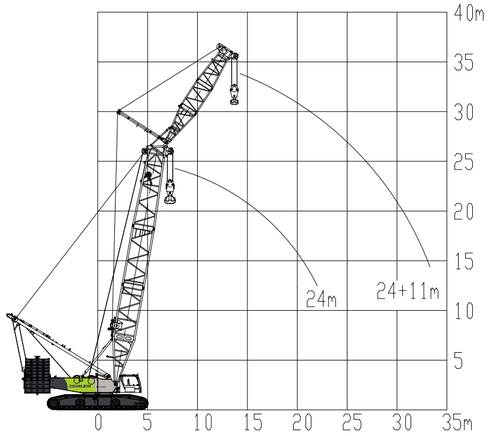


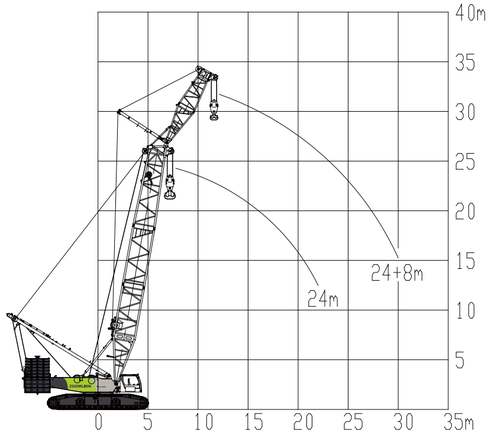
Lifting capacity chart　unit(t)

Rear counterweight: 140 t Central counterweight: 40t													
Radius (m)	S-boom length (m)												
	24	30	36	42	48	54	60	66	72	78	84	90	96
6	350												
7	338	335	330										
8	287	287	282	265									
9	250	250	245	232	220	209							
10	221	221	217	206	196	187	178						
11	199	196	194	185	177	169	162	155	149				
12	175	172	170	165	158	150	148	142	137	128	110		
14	143	143	143	141	136	131	126	121	117	113	106	92.5	81.3
16	118	118	118	118	117	113	109	105	102	98.6	95.1	89.2	78.4
18	100	100	100	100	99.9	99.4	95.9	93.1	89.9	87.1	84	81.1	75.6
20	87.1	87	87	86.8	86.4	86.1	85.3	82.9	80	77.7	74.7	72.5	70.8
22	76.6	76.5	76.5	76.3	75.8	75.5	75	74.4	71.9	69.8	67.2	65.1	63.8
24		68.1	68.1	67.9	67.3	67	66.4	66.2	65	63.2	60.8	58.9	57.7
26		61.1	61.1	60.9	60.4	60.1	59.5	59.2	58.6	57.5	55.2	53.5	52.5
28		55.2	55.3	55.1	54.6	54.2	53.6	53.4	52.8	52.4	50.5	48.8	48
30			50.4	50.2	49.7	49.3	48.7	48.4	47.8	47.5	46.3	44.7	44
32			46.1	46	45.4	45.1	44.5	44.2	43.6	43.2	42.4	41	40.4
34				42.3	41.8	41.4	40.8	40.5	39.9	39.5	38.7	37.8	37.3
36				39	38.5	38.2	37.6	37.2	36.6	36.2	35.4	34.9	34.5
38				36.2	35.7	35.3	34.7	34.4	33.8	33.4	32.5	32	31
40					33.1	32.8	32.2	31.8	31.2	30.5	29.9	29.3	28.5
44					28.7	28.4	27.5	27	26.5	26	25.5	25	24.6
48						24.9	23	22.5	22.4	21.5	21	21	20
52							19.5	19	18.8	18	17.5	17	16.5
56								16	16	15	15	14.5	14
60									14	13	13	12.5	12
64									11	10	10	9.6	9.1
68										9	8.5	8	7.5
72											6.1	5.5	5
76												4	3.5
80												3	3
84													2.5

LIFTING PERFORMANCE

Lifting height curves on Heavy fixed jib on heavy duty boom　unit(t)





LIFTING PERFORMANCE

Lifting capacity chart unit(t)

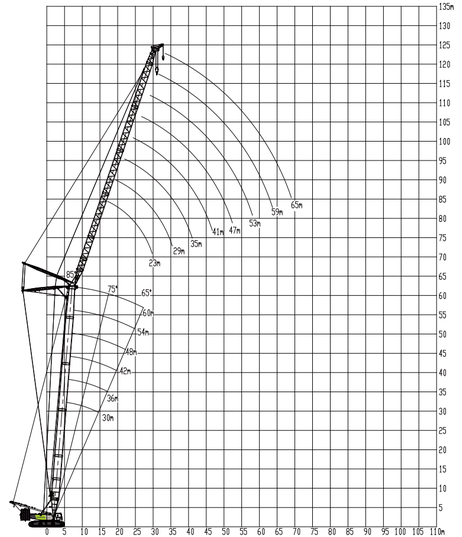
Main boom:24m, jib:8m, rear counterweight :140,central counterweight:40t						
Main boom angle(°)	Radius(m)			Lifting capacity(t)		
	Primary hook	Auxiliary hook	Turning over	Primary hook	Auxiliary hook	Turning over
80.7	7	11.4	9.2	300	177	238.5
79.2	7.2	12	9.6	296	172	234
78.3	8	12.7	10.4	280	157	218.5
75.8	9	14	11.5	245	135	190.0
73.3	10	15.3	12.7	217	120	168.5
71.6	10.6	16	13.3	200.8	116	158.4
70.7	11	16.6	13.8	190	106	148.0
68.1	12	18	15	170	96	133.0
62.8	14	20.4	17.2	135	82.3	108.7
58	15.6	22	18.8	115	73.8	94.4
57.1	16	23	19.5	110	70	90.0
53.4	17.1	24	20.6	100.5	65.2	82.9
50.9	18	25.5	21.7	92.8	60.5	76.7
48.4	18.7	26	22.3	88.1	58.1	73.1
44.1	20	27.9	24	79.4	53	66.2
43.5	20.1	28	24.1	78.9	52.1	65.5
36.4	21.9	30	26.0	69.3	47.1	58.2
36.2	22	30.3	26.1	68.8	47	57.9

Lifting capacity chart unit(t)

Main boom:24m, jib:11m, rear counterweight :140,central counterweight:40t						
Main boom angle(°)	Radius(m)			Lifting capacity(t)		
	Primary hook	Auxiliary hook	Turning over	Primary hook	Auxiliary hook	Turning over
80.7	7	13.4	10.2	299	118	210.3
79.4	7.5	14	10.8	287	117	202
78.3	8	14.8	11.4	275	110	192.5
75.9	8.9	16	12.5	234.5	104	169.3
75.8	9	16.2	12.6	230	106	168.0
73.3	10	17.5	13.8	208	90	149.0
72.3	10.3	18	14.2	200.2	88.3	144.3
70.7	11	19	15	182	85	133.5
68.6	11.8	20	15.9	188.8	76.5	132.7
68.1	12	20.3	16.2	168	74	121.0
64.6	13.3	22	17.7	146	71	108.5
62.8	14	23	18.5	134	70	102.0
60.5	14.7	24	19.4	125.3	66	95.7
57.1	16	25.7	20.8	109	61	85.0
56.2	16.2	26	21.1	107.3	58.9	83.1
51.5	17.8	28	22.9	93.7	52.9	76.8
50.9	18	28.3	23.1	92	52	72
46.3	19.3	30	24.7	83.3	47.8	65.5
44.1	20	30.8	25.4	78.6	47.1	62.9
40.3	20.9	32	26.5	73	43.4	58.2
36.2	22	33.3	27.6	68.1	42	55.1

LIFTING PERFORMANCE

Lifting height curves on Luffing jib on heavy duty boom unit(t)



Lifting capacity chart unit(t)

Main boom:30m rear counterweight:140t central counterweight:40(t) 360°working range									
radius	Light duty boom length(m)								
	23m			29m			35m		
	85°	75°	65°	85°	75°	65°	85°	75°	65°
14	131			120					
16	121			117			107		
18	108			104			99.8		
20	94.2			93.9			91.3		
22	83.3	78.9		83.1			82.9		
24	74.6	70.7		74.4	70.2		74.2		
26	67.4	64		67.3	63.5		67.1		
28		58.3		61.3	57.9		61.2	57.5	
30		53.5	50.5	56.2	53.1		56.1	52.8	
32		49.3	46.6	51.8	49		51.8	48.7	
34			43.2		45.4	42.7	48	45.1	
36			40.2		42.3	39.8	44.7	42	
38			37.5		39.4	37.2	41.7	39.3	36.8
40						34.8		36.8	34.5
44								32.5	30.5
48									27.2

LIFTING PERFORMANCE

Lifting capacity chart unit(t)

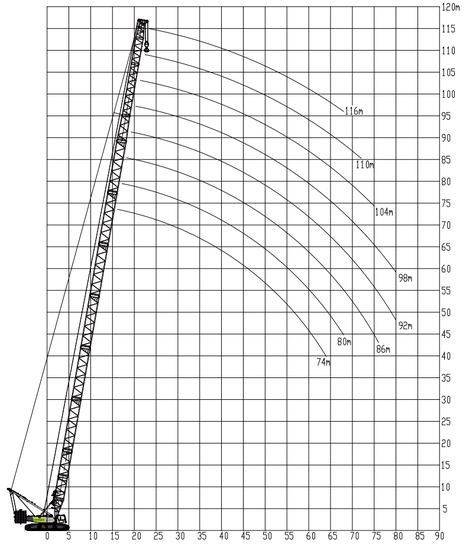
Main boom:42m rear counterweight:140t central counterweight:40(t) 360°working range									
radius	jib length(m)								
	41m			47m			53m		
	85°	75°	65°	85°	75°	65°	85°	75°	65°
20	83.1			80.6					
22	75.9			73.7			69.3		
24	69.7			67.8			65.7		
26	64.4			62.7			60.8		
28	59.8			58.2			56.4		
30	55.3			54.3			52.7		
32	51	46.2		50.7			49.1		
34	47.3	42.8		47			45.2		
36	44	39.8		43.7	39.3		41.8		
38	41.1	37.2		40.4	36.7		38.7	36.1	
40	38.5	34.8		37.6	34.4		36	33.8	
44	34.1	30.8		32.9	30.4		31.2	29.8	
48		27.5	24.5	28.9	27.1		27.4	26.5	
52		24.7	21.9	25.5	24.4	21.3	24	23.8	20.6
56			19.7		22	19.2	21.2	21.5	18.5
60			17.8			17.3		19.4	16.6
64						15.7		17.6	15
68									13.6
72									12.3

Lifting capacity chart unit(t)

Main boom:60m rear counterweight:140t central counterweight:40(t) 360°working range									
radius	jib length(m)								
	41m			47m			53m		
	85°	75°	65°	85°	75°	65°	85°	75°	65°
20	74.9								
22	68.6			66.7					
24	63.3			61.4			59.6		
26	58.6			56.9			55.2		
28	54.5			53			51.4		
30	50.9			49.5			47.9		
32	47.8			46.4			45		
34	45			43.7			42.3		
36	42.4			41.2			39.8		
38	40.1	32.6		38.9			37.6		
40	38	30.8		36.9	29.6		35.7		
44	33.6	27.7		33.3	26.6		32.1	25.3	
48		25.1		29.7	24.1		28.8	22.8	
52		22.5		26.7	21.9		25.2	20.7	
56		20.2	15.7		19.8		22.3	18.8	
60			14.1		17.8	13.5		17.2	12.5
64			12.7		16.1	12.1		15.6	11.3
68			11.5			10.9		14.1	10.2
72						9.9			9.1
76									8.2

LIFTING PERFORMANCE

Lifting height curves on Light duty boom unit(t)



Lifting capacity chart unit(t)

Main boom:30m rear counterweight:140t central counterweight:40(t) 360°working range								
radius	Light duty boom length(m)							
	74	80	86	92	98	104	110	116
11	110							
12	110	110	97.2					
14	110	108	93.9	79.9	67.8	58.3		
16	103	99.4	90.9	77.2	65.3	56.2	50.5	42.9
18	91.1	88.2	85.1	74.6	63	54.1	48.8	41.2
20	78.9	78.4	76.2	72.1	60.7	52.3	46.9	39.7
22	69.1	68.6	68	66.5	58.6	50.4	45.2	38.2
24	61.3	60.8	60.1	59.6	56.6	48.6	43.7	36.8
26	54.8	54.3	53.7	53.1	52.4	46.8	42	35.3
28	49.4	48.9	48.3	47.7	47	45.2	40.6	34.1
30	44.9	44.3	43.7	43.1	42.4	42.3	39.1	32.9
32	41	40.4	39.8	39.2	38.5	38.3	37.8	31.5
34	37.6	37	36.3	35.8	35.1	34.9	34.7	30.4
36	34.6	34	33.4	32.7	32.1	31.8	31.7	29.3
38	32	31.4	30.7	30.1	29.4	29.1	28.9	28
40	29.7	29	28.4	27.7	26.9	26.6	26.5	26
44	25.7	25	24.3	23.6	22.7	22.5	22	22
48	22.3	21.6	20.8	20.1	19.3	19	18.2	18.6
52	19.5	18.8	18	17.3	16.4	16.1	14.8	15.1
56	17.1	16.4	15.6	14.8	14	13.7	11.8	11.9
60	15	14.3	13.5	12.7	11.9	11.6	9.2	9.2
64	13.1	12.5	11.7	10.9	10.1	9.8	7	6.8
68		10.9	10.1	9.3	8.5	7.7	4.9	4.6
72			8.6	7.9	7.1	5.4	3	
76			7.4	6.7	5.8	3.4		
80				5.2	4.7			

Remark: operation with 92m-116m boom, machine need to be equiped with waist rope; when the length of boom is 110m or 116m,machine need to be equiped with double waist rope.auxiliary outringgers should be installed when refer to lifting and descending mechanism .

TRANSPORT DIMENSIONS

Basic machine — 1 piece



Length	15300 mm
Width	3000 mm
Height	3200 mm
weight	50.7 t

Crawler carrier assembly — 2 pieces



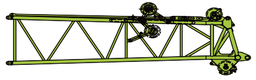
Length	10108 mm
Width	1200 mm
Height	1550 mm
weight	26.5 t

Bottom section of main boom — 1 piece



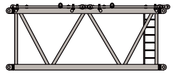
Length	10230 mm
Width	3000 mm
Height	2980 mm
weight	10.59 t

Top section of main boom — 1 piece



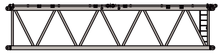
Length	8990 mm
Width	3000 mm
Height	3100 mm
weight	6.23 t

6m intermediate section — 1 piece



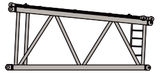
Length	6160 mm
Width	3000 mm
Height	2260 mm
weight	2.3 t

12m main boom — 6 pieces



Length	12160 mm
Width	3000 mm
Height	2260 mm
weight	3.6 t

6m intermediate section — 1 piece



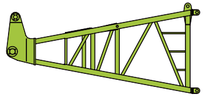
Length	6200 mm
Width	3000 mm
Height	2400 mm
weight	2.15 t

Top section of luffing jib — 1 piece



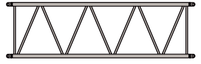
Length	4420 mm
Width	2600 mm
Height	2240 mm
weight	1.43 t

Bottoom section of luffing jib — 1 piece



Length	10190 mm
Width	2520 mm
Height	1820 mm
weight	3 t

6m luffing jib intermediate section — 1 piece



Length	6300 mm
Width	2520 mm
Height	1820 mm
weight	1.1t

TRANSPORT DIMENSIONS

12m luffing jib intermediate section — 2 pieces



Length	6300 mm
Width	2520 mm
Height	1820 mm
weight	1.95 t

12m luffing jib(—) intermediate section — 2 pieces



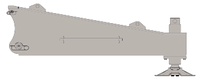
Length	6300 mm
Width	2520 mm
Height	1820 mm
weight	1.73 t

3m luffing jib intermediate section — 1 piece



Length	3200 mm
Width	2520 mm
Height	1820mm
weight	0.77t

Auxiliary outrigger — 2 pieces



Length	1500 mm
Width	500 mm
Height	1218 mm
weight	0,5 t

Couterweight base plate — 2 pieces



Length	2600 mm
Width	2200 mm
Height	1900mm
weight	5.2 t

Couterweight block — 6 pieces



Length	2400 mm
Width	1700 mm
Height	455 mm
weight	10t

Couterweight block — 14 pieces



Length	2400 mm
Width	1700 mm
Height	227 mm
weight	5t

Central counterweight suppport — 2 pieces



Length	2165 mm
Width	1425 mm
Height	800 mm
weight	1.2 t

Central counterweight plate — 4 pieces



Length	2400 mm
Width	2100 mm
Height	455 mm
weight	10 t

300t load hook — 1 piece



Length	3075 mm
Width	1665 mm
Height	760 mm
weight	6.5t

TRANSPORT DIMENSIONS

200t load hook — 1 piece



Length	2470 mm
Width	1480 mm
Height	800mm
weight	5.7 t

50t load hook — 1 piece



Length	2060 mm
Width	620 mm
Height	800 mm
weight	2.2t

100t load hook — 1 piece



Length	2060 mm
Width	940 mm
Height	800mm
weight	3.6t

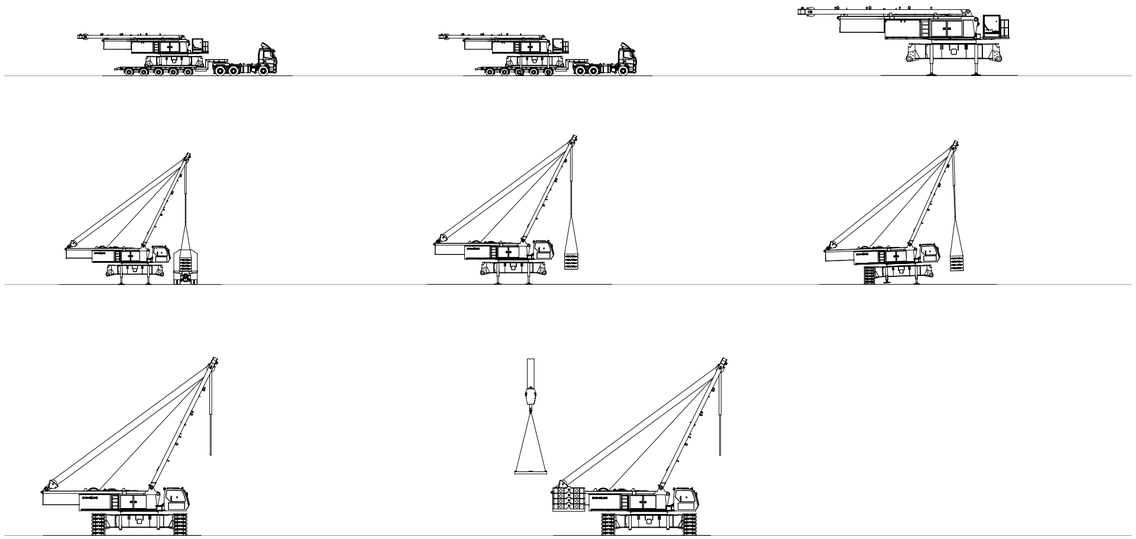
16t load hook — 1 piece



Length	1157 mm
Width	530 mm
Height	530 mm
weight	0.9t

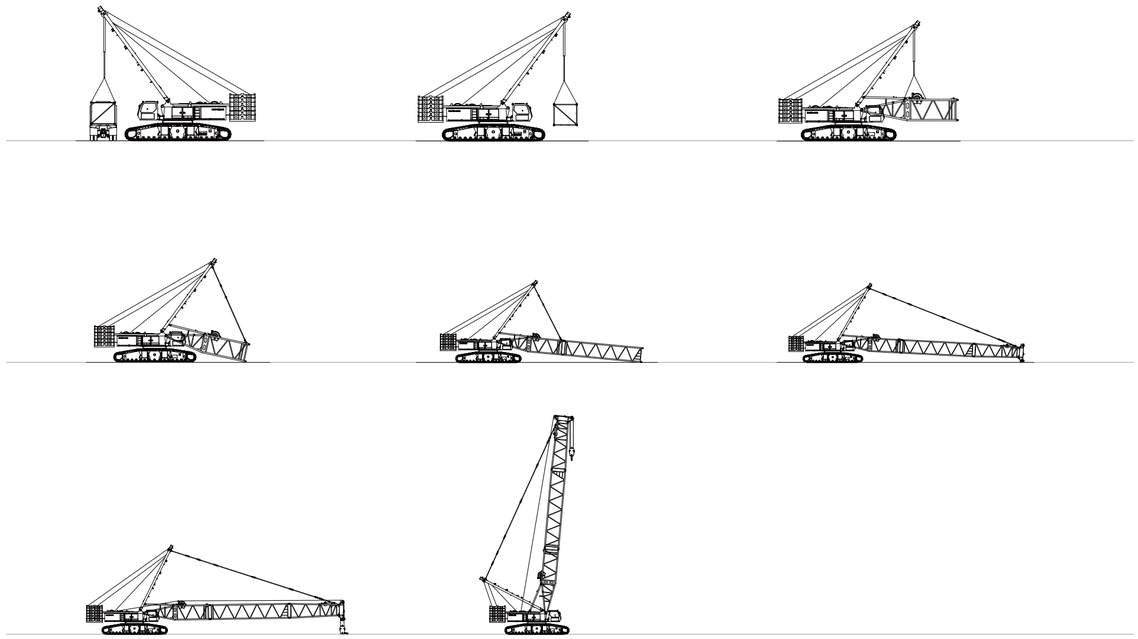
ASSEMBLY AND DISASSEMBLY DIAGRAM FOR BASIC OPERATION

Machine dimantlement



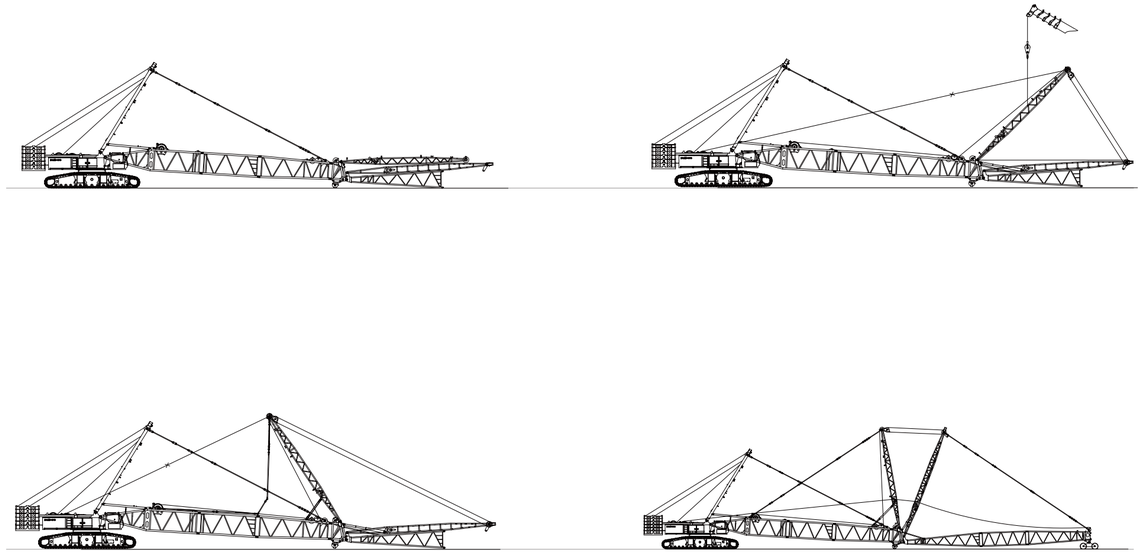
ASSEMBLY AND DISASSEMBLY DIAGRAM FOR BASIC OPERATION

Main boom installment



ASSEMBLY AND DISASSEMBLY DIAGRAM FOR BASIC OPERATION

Luffing jib installment



ASSEMBLY AND DISASSEMBLY DIAGRAM FOR BASIC OPERATION

Luffing jib installment

