

ZOOMLION

ZOOMLION ZAT2500V853 ALL TERRAIN CRANE

TECHNICAL SPECIFICATIONS

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ZOOMLION ZAT2500V853 ALL TERRAIN CRANE

TECHNICAL SPECIFICATIONS

Specifications, complete vehicle

Product model

Model in auto industry: ——

Model in engineering industry: ZAT2500V

Code: ZAT2500V853

Product appearance

Main boom: 88m Jib: 33.5m Counterweight: 72t



Technical data

Table 1 Technical data

Item		Value	Remarks
Work performance	Max. rated lifting capacity t	250	
	Max. load moment of basic t.m	704	
	Max. load moment of main boom t.m	252	
	Max. lifting height of basic boom m	14.6	
	Max. lifting height of main boom m	88	These parameters do not include deflection of boom and jib.
	Max. lifting height of jib m	115.5	
Work speeds	Max. hoist rope speed (Main winch) m/min	135	
	Boom derricking up time s	70	
	Boom extending time s	750	
	Slewing speed r/min	0-1.5	
Driving	Max. operation altitude m	2000	
	Max. driving speed km/h	80	
	Max. gradeability %	48	
	Min. turning diameter m	≤20.5	
	Min. ground clearance mm	334	
	Limits for exhaust pollutants and smoke	Europe V	
	Front overhang angle °	19	
	Rear overhang angle °	12	
Mass	Deadweight in driving condition kg	54900	Single axle not exceeding 12t state: without the hook, the movable counterweight, the jib, the rooster sheave, the tip boom, main winch and main hoist rope, the auxiliary winch & the auxiliary hoist rope, the rear sliding beam (including the cylinders), the outrigger pad, 4-8 sections of main boom and the spare tire.
	Complete vehicle kerb mass kg	54705	
	Single axle load kg	10050/10050/11600/11600/11600	
Dimensions	Overall dimensions (L×W×H) mm	16990×3000×4000	

	Outrigger spread (W)	m	Completely extended: 8.3 m; intermediate extended: 5.5 m	
	Outrigger spread (L)	m	9.23	
	Slewing radius of counterweight tail	mm	5300 (counterweight front position), 5800 (counterweight tail)	
	Main boom length	m	14.6-88	
	Boom angle	°	-0.5-82	
	Jib length	m	10.4, 17.5	Optional: 25.5m

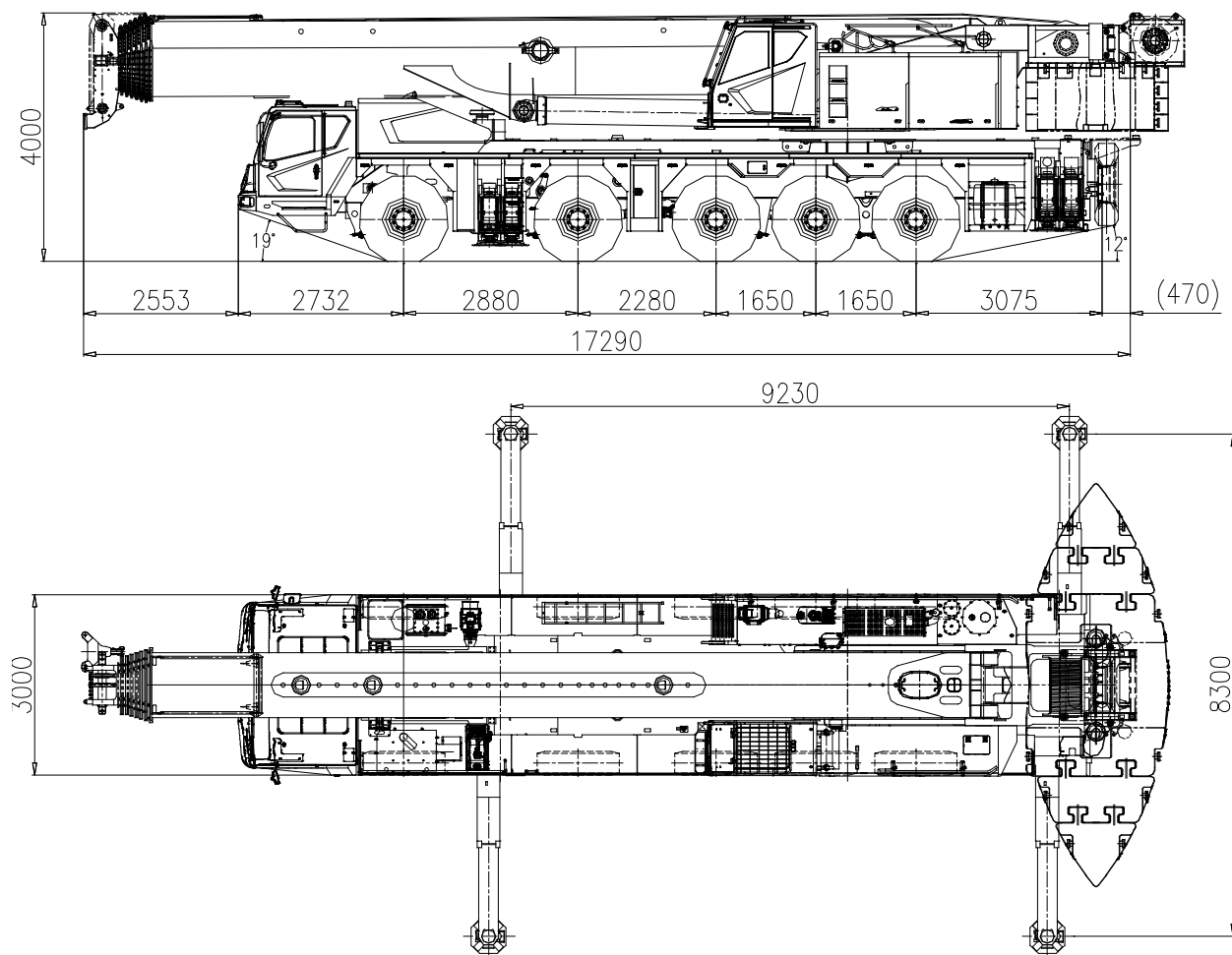
Table of options

Table 2 Options

No.	Description	Remarks
1	Outrigger pads	Overall dimensions: 1800mm*1800mm*210, 4 pieces
2	Extension	Including 2 pieces of 8m extensions
3	Hook	Stand configuration: 70t (single hook), 9t Optional: 130t, 110t, 70t (ramshorn hook), 25t

Dimensions (unit: mm)

Operation condition

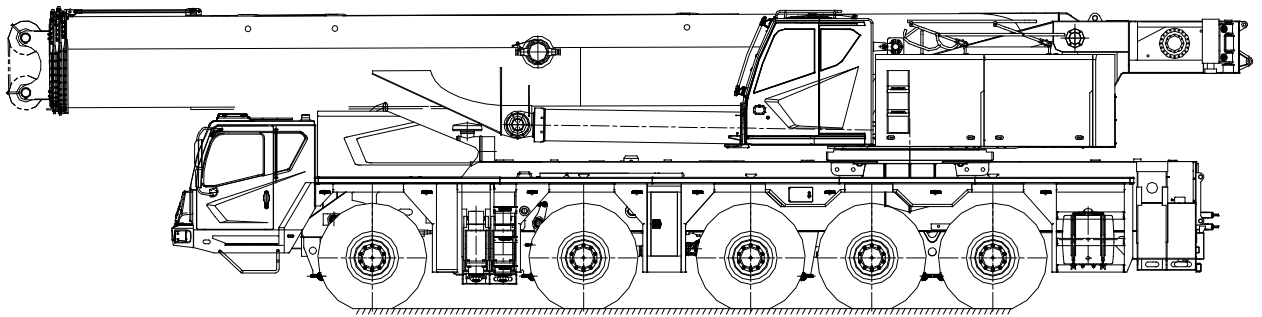


Dimensions in travelling order (unit: mm)

① Road travel mode (single axle not exceeding 12t):

These components such as the hook, the movable counterweight, the jib, the rooster sheave, the tip boom, the main winch and the main hoist rope, the auxiliary winch and the auxiliary hoist rope, the rear sliding beams (including the cylinders), the outrigger pads, 4-8 sections of main boom and the spare tires are removed from the crane.

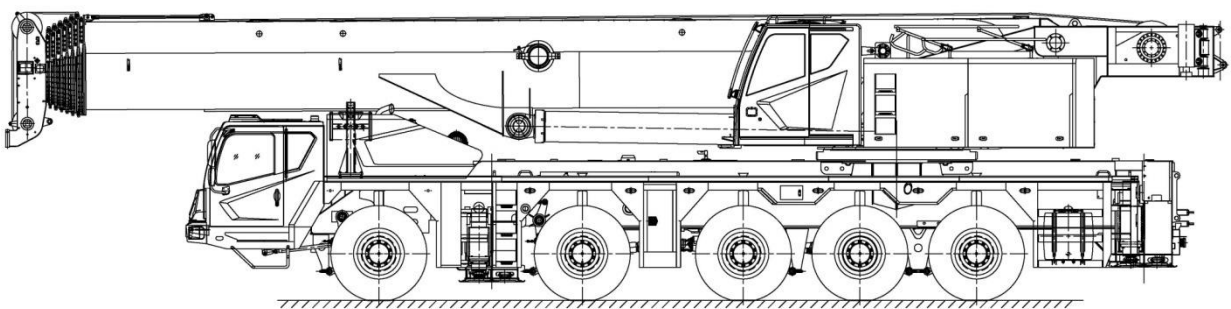
Under the single axle not exceeding 12t state, the vehicle speed is below 80 km/h and max. permissible gradeability is 48%.



② Road travel mode (70t):

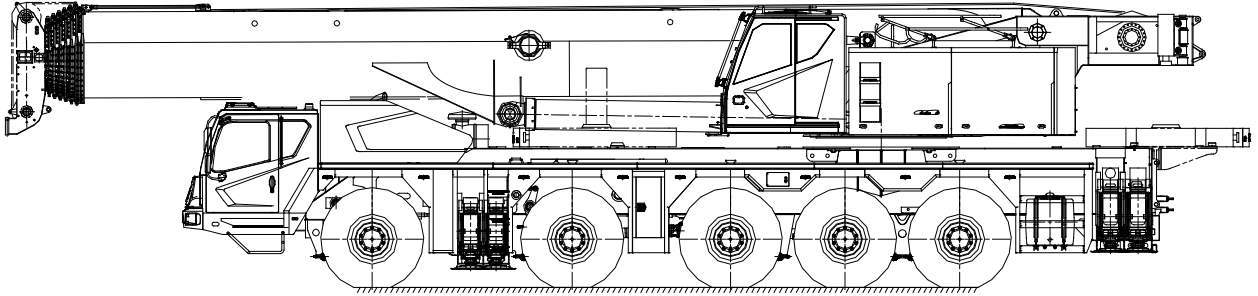
These components such as the hook, the rooster sheave, the jib, the auxiliary winch and the auxiliary hoist rope, the counterweight and the spare tires are removed from the crane.

For regular traveling, the vehicle speed is below 70 km/h and max. permissible gradeability is 48%.



③Off-road transit mode (92t):

These components such as the hook, the rooster sheave, the jib, the auxiliary winch and the auxiliary hoist rope and the spare tire are removed from the crane. And the vehicle is with 22t counterweight. For short distance and off-road transit travelling, the vehicle speed is below 20 km/h and max. permissible gradeability is 30%.



Weight distribution in travelling order (unit: t)

Table 3 Weight distribution in travelling order

	1	2	3	4	5	Total weight (t)
①	10.05	10.05	11.60	11.60	11.60	54.9
②	14.00	14.00	14.00	14.00	14.00	70.0
③	14.14	14.14	21.24	21.24	21.24	92.0

Hook (transported individually)

Table 4 Hook

Specification	Weight (t)	Transport dimensions (mm)	Fall	Single/double hook	Standard/optional configuration
130t	1.48	1865×900×650	16	Double	Optional
110t	1.28	1835×805×650	14	Double	Optional
70t	0.92	1580×650×650	10	Double	Optional
70t	0.9	1675×650×650	10	Single	Standard
25t	0.59	1410×390×650	3	Single	Optional
9t	0.38	φ405×845	1	Auxiliary hook	Standard

Wire rope

Table 5 Wire rope

	Diameter (mm)	Length (m)	Max. pulling force for single rope (t)
Main hoist rope	φ20	425	9
Auxiliary hoist rope	φ20	245	8.6

Counterweight (transported individually)

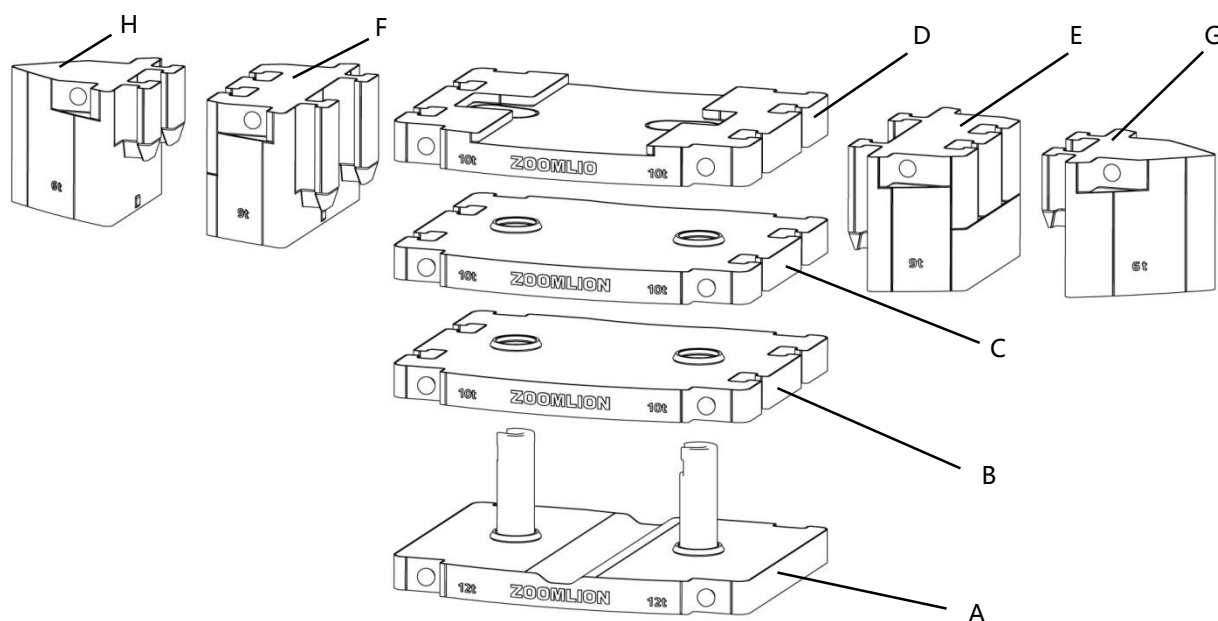


Table 6 Counterweight

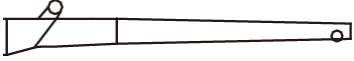
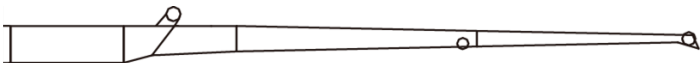
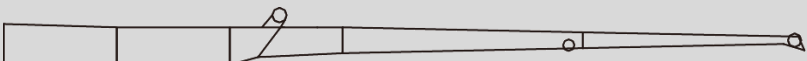
	Description	Mass (t)	Transport dimensions (mm)	Quantity (piece)
A	Lower counterweight	12	3000×2350×1130	1
B	Intermediate counterweight	10	3000×2350×315	1
C	Intermediate counterweight	10	3000×2350×315	1
D	Upper counterweight	10	3000×2355×320	1
E	Side counterweight 1	9	1015×1960×1100	1
F	Side counterweight 1	9	1015×1960×1100	1
G	Side counterweight 2	6	1315×1375×1100	1
H	Side counterweight 2	6	1315×1375×1100	1

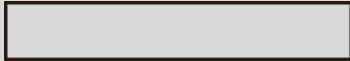
Table 7 Counterweight combinations (Unit: piece)

Combinations	A	B	C	D	E	F	G	H
0t	0	0	0	0	0	0	0	0
12t	1	0	0	0	0	0	0	0
22t	1	1	0	0	0	0	0	0
32t	1	1	1	0	0	0	0	0
42t	1	1	1	1	0	0	0	0
60t	1	1	1	1	1	1	0	0
72t	1	1	1	1	1	1	1	1

Boom combinations

Jib

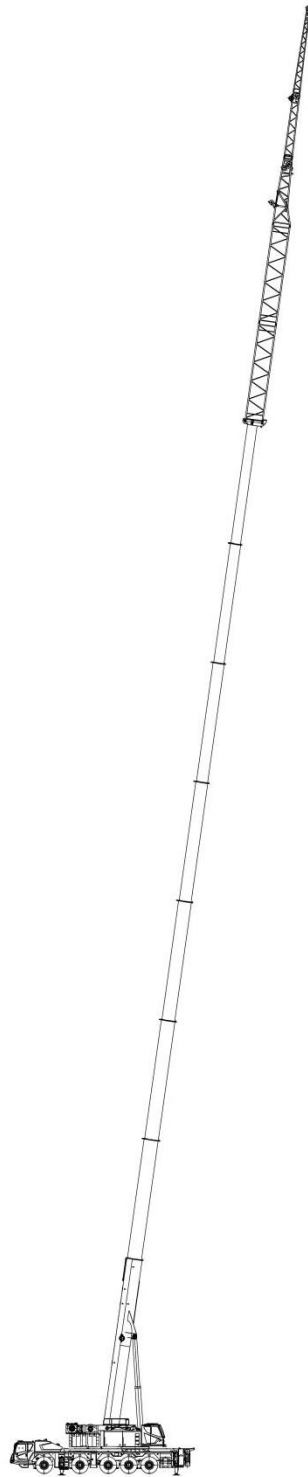
10.4 m	
17.5 m	
25.5 m	
33.5 m	

Components	Structure type	Dimensions (L*W*H) mm	Mass kg
Adaptor (tip boom)		5500×1025×1500	710
Jib section I		5500×800×800	400
Jib section II		7100×520×600	270
8 m extension		8000×950×1460	580

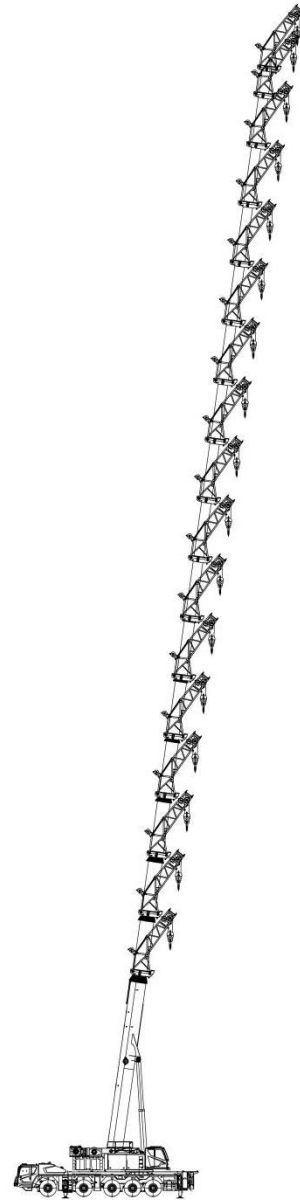
OM combinations



Main boom



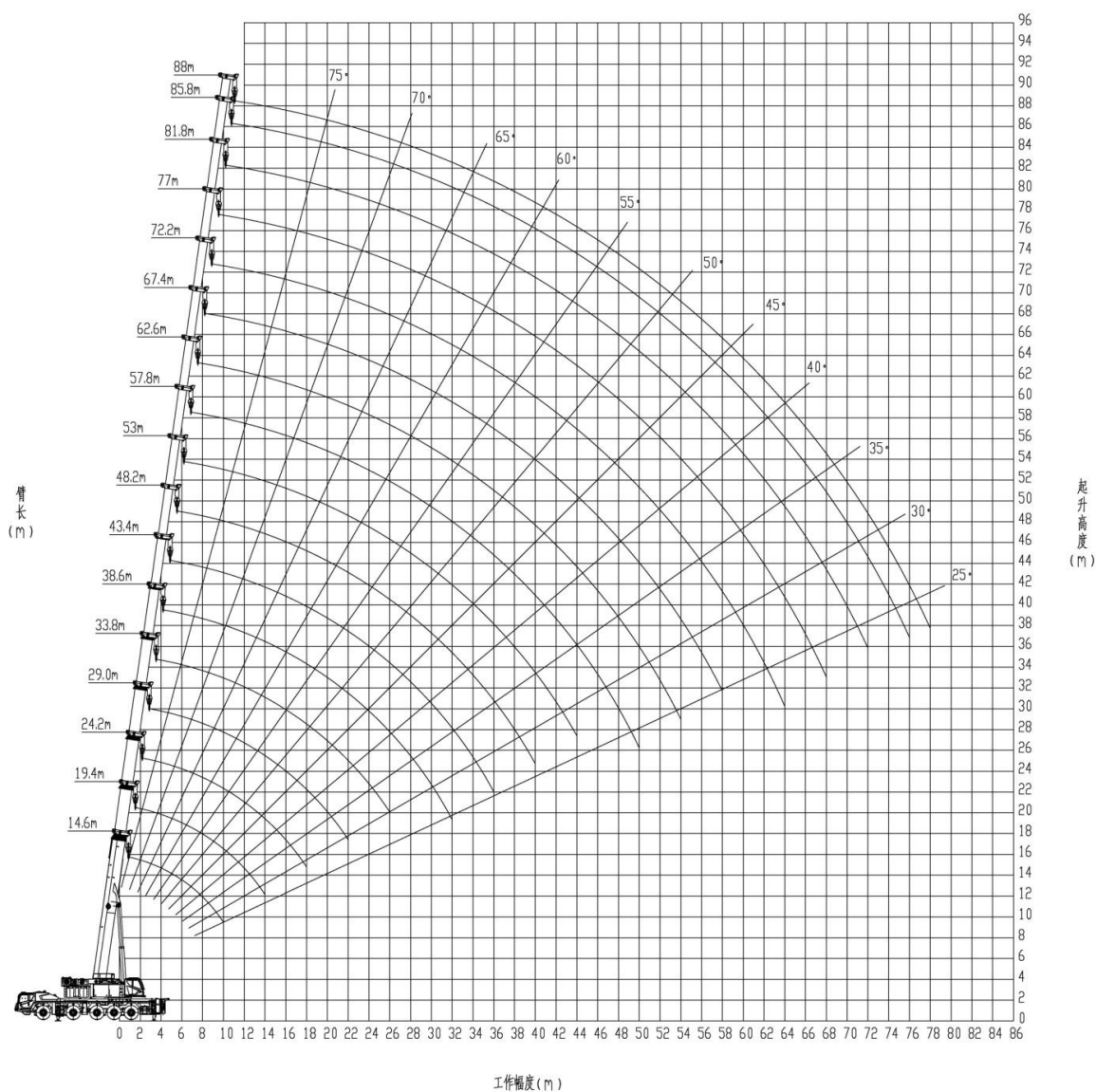
Main boom + Jib



Main boom + Tip boom

Lifting capacity tables / Lifting height charts

Main boom OM: 14.6m – 88m



Note:

Boom length (m) Boom length (m)

起升高度(m) Lifting height (m)

Workingradius(m) Working radius (m)

1. The rated lifting capacity marked with the asterisk (*) adopts the other hook;
2. As for the OM of which the lifting capacity is more than 126t, the hook and the boom frame pulley should be modified. If necessary, contact the manufacturer in advance;
3. The telescoping modes marked with ★ are optimal ones.

Table 8-1 Main boom

Unit: t

Outriggers completely extended 8.3 m, with 72 t counterweight, counterweight moved backwards for 0.5 m, over full range																	
Working radius (m)	Boom length (m)														Working radius (m)		
	14.6 □	19.4	19.4	19.4	19.4	19.4	19.4 □	24.2	24.2	24.2	24.2	24.2	24.2	24.2 □			
2.5	250*														2.5		
3.0	220*	55	70	90	100	110	135*	30	58	80	85	100	110	130*	3.0		
3.5	145*	53	68	90	100	110	135*	28.5	57	78	85	100	110	130*	3.5		
4.0	136*	50	65	90	100	110	130*	26.8	55	75	85	100	110	130*	4.0		
4.5	129*	48	62	85	100	110	128*	25.2	50	71	80	100	110	126	4.5		
5.0	122	46	59	82	100	110	121	23.8	49	69	75	98	110	117	5.0		
6.0	109	42	56	79	90	104	108	21.6	44	62	66	91	101	104	6.0		
7.0	95	39	53	75	85	93	94	19.5	40	56	59	84	91	92	7.0		
8.0	88	36	49	70	77	84	87	18	36.5	51	55	76	83	85	8.0		
9.0	77	34	46	64	70	76	76	16.5	34	47	50	68	75	75	9.0		
10.0	67	32	42	59	65	69	68	15.2	31	45	47	63	67	67	10.0		
12.0		28.5	36	51	55	57	56	13.3	26.5	38	41	54	56	56	12.0		
14.0		26	32	46	47	48	47	11.8	23.5	34	36.2	46.5	48	46.8	14.0		
16.0								10.5	21	30.5	32	40.5	40	39	16.0		
18.0								9.6	19	28	29	34	33.5	32.5	18.0		
20.0															20.0		
22.0															22.0		
24.0															24.0		
26.0															26.0		
28.0															28.0		
30.0															30.0		
32.0															32.0		
34.0															34.0		
36.0															36.0		
38.0															38.0		
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42.0															42.0		
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66.0															66.0		
68.0															68.0		
70.0															70.0		
72.0															72.0		
74.0															74.0		
76.0															76.0		
78.0															78.0		
80.0															80.0		
Reeving	14	14						14							Reeving		
Hook	130t														Hook		
Telescoping mode	□	1	1	1	1	1	1	1	1	1	1	1	1	2	□	Telescoping mode	
	□	1	1	1	1	1	1	2	1	1	1	1	1	2	2		□
	□	1	1	1	1	1	2	1	1	1	1	1	2	2	1		□
	□	1	1	1	1	2	1	1	1	1	1	2	2	1	1		□
	□	1	1	1	2	1	1	1	1	1	2	2	1	1	1		□
	□	1	1	2	1	1	1	1	1	2	2	1	1	1	1		□
	□	1	2	1	1	1	1	1	3	2	1	1	1	1	1		□

Table 8-2 Main boom

Unit: t

Outriggers completely extended 8.3 m, with 72 t counterweight, counterweight moved backwards for 0.5 m, over full range																
Working radius (m)	Boom length (m)														Working radius (m)	
	29	29	29	29	29	29	29 □	33.8	33.8	33.8	33.8	33.8	33.8	33.8 □		
3.0															3.0	
3.5	31	39	60	75	85	100	115								3.5	
4.0	29	37	58	73	85	100	115								4.0	
4.5	28	35	56	70	82	100	115								4.5	
5.0	26.6	33	54	67	79	97	110	27	31	38	57	72	90	95	5.0	
6.0	24	29	50	60	73	89	97	24	27.5	35	53.5	65	85	90	6.0	
7.0	22	26.3	45.5	54	66	80	91	21.8	25.5	32	49	60	80	85	7.0	
8.0	20.4	24	42	49	60	73	82	20	23	29	45	55	74	79	8.0	
9.0	19	22	39	45	56	67	75	18.3	21.1	26.8	41	50	69	72	9.0	
10.0	17.5	20.2	36.5	40.5	52	62	67	16.5	19.5	24.6	37.5	47	64	64	10.0	
12.0	15.5	17.5	32	35.8	45	53	55	14.5	17	21.3	32.5	40	55	56	12.0	
14.0	13.7	15.2	28	31.5	40	46	47	12.9	15	18.3	29	36	47	47	14.0	
16.0	12.5	13.6	25	28	36	39.5	39	11.3	13.2	16.3	25.5	33	40	39	16.0	
18.0	11.4	12.2	23	25	32.5	34.5	33.5	10.2	12	14.8	23	29	34.5	34	18.0	
20.0	10.5	11.1	21	23	30	29	28.1	9.3	10.8	13.3	21	26.5	30	29	20.0	
22.0	9.6	10.2	19.5	21	25.5	25.3	23.9	8.4	9.9	12.1	19.2	24	24.7	24.7	22.0	
24.0								7.8	9	11.2	17.5	22.3	22	21.3	24.0	
26.0								7.2	8.3	10.4	15.3	21	19.5	18.4	26.0	
28.0															28.0	
30.0															30.0	
32.0															32.0	
34.0															34.0	
36.0															36.0	
38.0															38.0	
40.0															40.0	
42.0															42.0	
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50.0															50.0	
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68.0															68.0	
70.0															70.0	
72.0															72.0	
74.0															74.0	
76.0															76.0	
78.0															78.0	
80.0															80.0	
Reeving	13							11							Reeving	
Hook	130t							110t							Hook	
Telescoping mode	□	1	1	1	1	1	1	2	1	1	1	1	1	1	2	□
	□	1	1	1	1	1	2	2	1	1	1	1	1	2	2	□
	□	1	1	1	1	2	2	2	1	1	1	1	2	2	2	□
	□	1	1	1	2	2	2	1	1	1	1	2	2	2	2	□
	□	1	1	2	2	2	1	1	1	2	3	2	2	2	1	□
	□	2	3	2	2	1	1	1	3	3	2	2	2	1	1	□
Telescoping mode	□	3	2	2	1	1	1	1	3	2	2	2	1	1	1	□

Table 8-3 Main boom

Unit: t

Outriggers completely extended 8.3 m, with 72 t counterweight, counterweight moved backwards for 0.5 m, over full range																
Working radius (m)	Boom length (m)														Working radius (m)	
	38.6	38.6	38.6	38.6	38.6	38.6	38.6 □	43.4	43.4	43.4	43.4	43.4	43.4	43.4 □		
3.0															3.0	
3.5															3.5	
4.0															4.0	
4.5															4.5	
5.0															5.0	
6.0	25	30	27	35	56	67	76								6.0	
7.0	23	27	25	32	53	62	75	24	22.5	26.2	32	39	57	64	7.0	
8.0	21	25	22.5	29	49	62	72	22.2	20.6	24	29	36	53.8	64	8.0	
9.0	19.2	23	20.5	26.5	45	57	68	20.6	19	22.3	27	33	50	62.1	9.0	
10.0	17.9	22	19	24.5	42	54	63	19.3	17.5	20.6	25	30.5	47	58.3	10.0	
12.0	16.6	19	16.5	21	37	47	56	17	15	18	21.2	26.5	41	51.9	12.0	
14.0	15.5	17	14.3	18.6	32	42	46	15	13.1	15.8	18.7	23.5	36.7	46	14.0	
16.0	13.6	15	12.6	16.5	29	37	40	13.4	11.6	14	16.5	20.7	33.2	39	16.0	
18.0	12	13.5	11.2	14.5	26	34	34	12	10.4	12.6	15	18.7	30	34	18.0	
20.0	10.9	12.2	10.1	13	24	30.5	30	11	9.2	11.4	13.2	16.8	27.5	30	20.0	
22.0	9	11.2	9.1	12	22	27	26	10	8.3	10.5	12	15.4	25.3	27	22.0	
24.0	8.2	10.1	8.4	11	20	23.5	22.5	9.3	7.6	9.6	11	14.1	23.4	23	24.0	
26.0	7.5	9.5	7.7	9.8	19	20.5	19.5	8.6	6.9	8.8	10	12.6	21.5	20	26.0	
28.0	7	8.7	7	9.2	17.5	18.5	17.2	8	6.3	8	9.2	11.8	18.5	17.4	28.0	
30.0	6.5	8	6.5	8.5	16.5	16.5	15	7.5	5.8	7.4	8.5	11	16.9	15.3	30.0	
32.0	6	7.5	6	7.7	15.5	14.5	12.6	7	5.3	6.9	7.9	10.2	15	13.6	32.0	
34.0								6.5	4.9	6.4	7.2	9.4	13.6	12.1	34.0	
36.0								6	4.5	5.8	6.6	8.8	12.3	10.8	36.0	
38.0															38.0	
40.0															40.0	
42.0															42.0	
44.0															44.0	
46.0															46.0	
48.0															48.0	
50.0															50.0	
52.0															52.0	
54.0															54.0	
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58.0															58.0	
60.0															60.0	
62.0															62.0	
64.0															64.0	
66.0															66.0	
68.0															68.0	
70.0															70.0	
72.0															72.0	
74.0															74.0	
76.0															76.0	
78.0															78.0	
80.0															80.0	
Reeving	9							8							Reeving	
Hook	110t							70t							Hook	
Telescoping mode	□	1	1	1	1	1	2	1	1	1	1	1	1	2	□	Telescoping mode
	□	1	1	1	1	1	2	2	1	1	1	1	1	2	2	
	□	1	1	1	1	2	2	2	1	1	1	2	3	2	2	
	□	1	1	2	3	2	2	2	1	2	3	3	2	2	2	
	□	2	3	3	2	2	2	2	3	3	3	2	2	2	2	
	□	3	3	2	2	2	2	1	3	3	2	2	2	2	2	
	□	3	2	2	2	2	1	1	3	2	2	2	2	2	1	

Table 8-4 Main boom

Unit: t

Outriggers completely extended 8.3 m, with 72 t counterweight, counterweight moved backwards for 0.5 m, over full range																
Working radius (m)	Boom length (m)														Working radius (m)	
	48.2	48.2	48.2	48.2	48.2	48.2	48.2 □	53	53	53	53	53	53	53 □		
3.0															3.0	
3.5															3.5	
4.0															4.0	
4.5															4.5	
5.0															5.0	
6.0															6.0	
7.0															7.0	
8.0	19	21.5	25	30	38	45	56								8.0	
9.0	17.5	20	23	28	36	42	52.5	18.5	21.2	24.5	29	36.5	41	43	9.0	
10.0	16	18.5	22	26	33.5	39.5	49.5	17.5	20	23.1	27.8	34.2	39	42	10.0	
12.0	14	16	19.2	23	29.5	35	44.3	15.2	17.5	20.5	24.5	30	34.5	37.4	12.0	
14.0	12.1	14.2	17	20.3	26	31	40	13.4	15.5	18.3	22	27	31	33.5	14.0	
16.0	10.8	12.6	15.2	18	23.2	27.6	36	12	13.9	16.5	19.8	24	28	30.2	16.0	
18.0	9.6	11.2	13.7	16.2	21	25	33.2	10.8	12.5	14.6	18	21.5	25.2	27.2	18.0	
20.0	8.6	10.2	12.2	14.7	19	22.5	30	9.8	11.4	13.2	16.3	19.5	23	24.5	20.0	
22.0	7.8	9.3	11	13.4	17.5	20.5	27	8.9	10.4	12	15	17.7	21	22.2	22.0	
24.0	7.1	8.5	10.2	12.2	16	18.6	23.5	8.1	9.5	11	13.6	16.2	19.2	20.1	24.0	
26.0	6.5	7.7	9.2	11.3	14.8	17.2	20	7.4	8.8	10	12.7	14.5	17.8	18.3	26.0	
28.0	6	7.1	8.5	10.4	13.6	15.9	18	6.8	8.1	9.2	11.6	13.5	16.3	16.8	28.0	
30.0	5.4	6.6	7.8	9.6	12.6	14.7	16	6.3	7.5	8.5	10.7	12.5	15.1	15.4	30.0	
32.0	5	6.1	7.2	8.8	11.8	13.5	14.3	5.8	6.9	7.8	10	11.6	14.1	14.2	32.0	
34.0	4.7	5.6	6.6	8.2	11	12.6	12.8	5.4	6.4	7.3	9.3	10.6	13	12.8	34.0	
36.0	4.3	5.2	6	7.7	10.3	11.6	11.6	5.1	5.9	6.8	8.8	9.8	11.7	11.4	36.0	
38.0	4	4.9	5.6	7.2	9.6	10	10.3	4.7	5.5	6.2	8.2	9.1	10.5	10.3	38.0	
40.0	3.6	4.6	5.2	6.6	9	9.5	9.2	4.4	5.1	5.8	7.8	8.5	9.5	9.2	40.0	
42.0								4.1	4.7	5.3	7.3	8	8.6	8.3	42.0	
44.0								3.8	4.4	5.1	6.9	7.3	7.6	7.4	44.0	
46.0															46.0	
48.0															48.0	
50.0															50.0	
52.0															52.0	
54.0															54.0	
56.0															56.0	
58.0															58.0	
60.0															60.0	
62.0															62.0	
64.0															64.0	
66.0															66.0	
68.0															68.0	
70.0															70.0	
72.0															72.0	
74.0															74.0	
76.0															76.0	
78.0															78.0	
80.0															80.0	
Reeving	7							6							Reeving	
Hook	70t														Hook	
Telescoping mode	□	1	1	1	1	1	1	2	1	1	1	1	1	2	3	□
	□	1	1	1	1	2	3	2	1	1	1	2	3	3	2	□
	□	1	1	2	3	3	2	2	1	2	3	3	3	2	2	□
	□	2	3	3	3	2	2	2	3	3	3	3	2	2	2	□
	□	3	3	3	2	2	2	2	3	3	3	2	2	2	2	□
	□	3	3	2	2	2	2	2	3	3	2	2	2	2	2	□
	□	3	2	2	2	2	2	2	3	2	2	2	2	2	2	□
Telescoping mode																Telescoping mode

Table 8-5 Main boom

Unit: t

Outriggers completely extended 8.3 m, with 72 t counterweight, counterweight moved backwards for 0.5 m, over full range																	
Working radius (m)	Boom length (m)														Working radius (m)		
	57.8	57.8	57.8	57.8	57.8	57.8 □					62.6	62.6	62.6	62.6		62.6 □	
3.0															3.0		
3.5															3.5		
4.0															4.0		
4.5															4.5		
5.0															5.0		
6.0															6.0		
7.0															7.0		
8.0															8.0		
9.0															9.0		
10.0	18	20.5	23.5	28.5	32.5	35									10.0		
12.0	16	17.8	21	25.5	29	32					16.5	19.3	21	24	26	12.0	
14.0	14.2	16	19.3	23	26.5	29.5					14.8	17.4	20	22.5	25.5	14.0	
16.0	12.8	14.3	17.4	21	24	27					13.4	15.9	18	21	24.5	16.0	
18.0	11.6	12.8	15.6	19	22	24.5					12.2	14.5	16.5	19.5	22.5	18.0	
20.0	10.5	11.7	14.5	17	20.2	22					11.2	13.3	15	18	20.5	20.0	
22.0	9.6	10.6	13.5	16	18	20.2					10.3	12.3	14.3	17.3	18.5	22.0	
24.0	8.8	9.8	12.3	14.2	16.8	18.2					9.5	11.3	13.2	15.8	17	24.0	
26.0	8.1	9	11.3	13.3	15.3	16					8.7	10.5	12.2	14.5	15.8	26.0	
28.0	7.5	8.4	10.3	12	14.2	15					8.1	9.7	11.3	13.4	14.3	28.0	
30.0	7	7.8	9.5	11.2	13.1	13.8					7.5	9.2	10.2	12.4	13.1	30.0	
32.0	6.5	7.2	8.9	10.2	12.1	12.5					7	8.6	9.5	11.5	12.1	32.0	
34.0	6	6.6	8.4	9.5	11.3	11.5					6.6	8	8.7	10.6	11	34.0	
36.0	5.6	6.3	7.7	8.7	10.5	10.5					6.2	7.5	8.2	9.9	10.2	36.0	
38.0	5.3	6	7.2	8.1	9.6	9.6					5.8	7	7.6	9.2	9.3	38.0	
40.0	4.9	5.5	6.8	7.5	9.1	8.8					5.5	6.5	7.2	8.2	8.6	40.0	
42.0	4.6	5.3	6.3	7	8.5	7.9					5.1	6.2	6.5	7.7	7.7	42.0	
44.0	4.3	5	6	6.5	7.5	7					4.8	5.8	6	7.4	7.2	44.0	
46.0	4	4.7	5.5	6	6.8	6.3					4.6	5.5	5.7	7	6.6	46.0	
48.0	3.8	4.4	5.2	5.5	6	5.6					4.3	5.2	5.5	6.8	5.8	48.0	
50.0	3.5	3.9	4.9	5.1	5.5	4.8					4	4.8	5	6.2	5.2	50.0	
52.0											3.8	4.5	4.7	5.4	4.6	52.0	
54.0											3.6	4.2	4.2	4.6	4	54.0	
56.0																56.0	
58.0																58.0	
60.0																60.0	
62.0																62.0	
64.0																64.0	
66.0																66.0	
68.0																68.0	
70.0																70.0	
72.0																72.0	
74.0																74.0	
76.0																76.0	
78.0																78.0	
80.0																80.0	
Reeving	5										4					Reeving	
Hook	70t										25t					Hook	
Telescoping mode	□	1	1	1	1	2	3				1	1	1	2	3	□	Telescoping mode
	□	1	1	2	3	3	3				1	2	3	3	3	□	
	□	2	3	3	3	3	2				3	3	3	3	3	□	
	□	3	3	3	3	2	2				3	3	3	3	2	□	
	□	3	3	3	2	2	2				3	3	3	2	2	□	
	□	3	3	2	2	2	2				3	3	2	2	2	□	
	□	3	2	2	2	2	2				3	2	2	2	2	□	

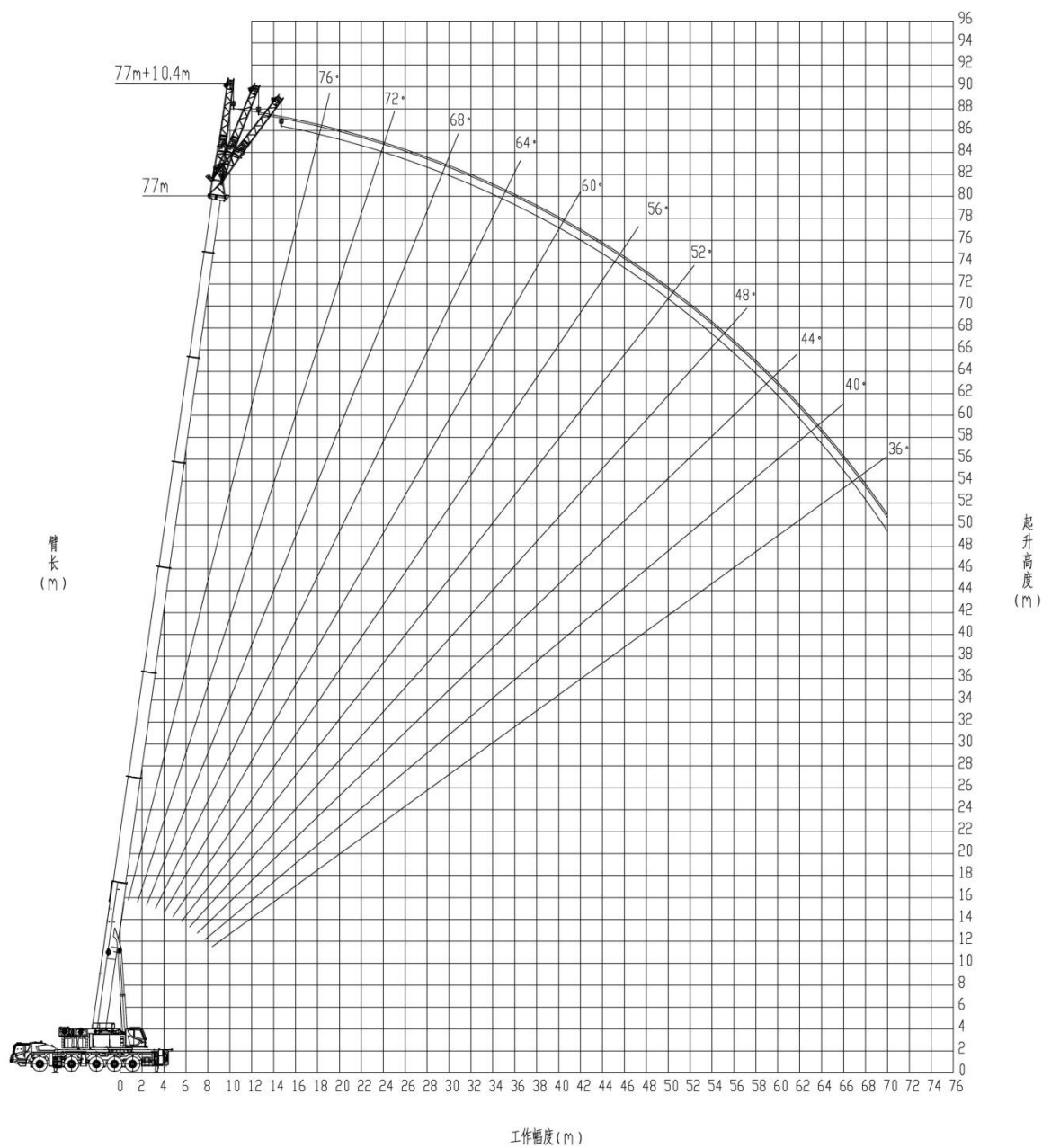
Table 8-6 Main boom

Unit: t

Outriggers completely extended 8.3 m, with 72 t counterweight, counterweight moved backwards for 0.5 m, over full range																	
Working radius (m)	Boom length (m)														Working radius (m)		
	67.4	67.4	67.4	67.4 □		72.2	72.2	72.2 □		77	77 □	81.8 □	85.8 □	88 □			
3.0															3.0		
3.5															3.5		
4.0															4.0		
4.5															4.5		
5.0															5.0		
6.0															6.0		
7.0															7.0		
8.0															8.0		
9.0															9.0		
10.0															10.0		
12.0															12.0		
14.0	15.5	17	19.5	20		14.5	15	15.5							14.0		
16.0	14.3	15.8	19.2	20		14	15	15.5		11.7	12.5				16.0		
18.0	13.1	14.5	18.1	20		13.5	15	15.5		11.7	12.5	9.5			18.0		
20.0	12.1	13.5	16.7	19.5		12.5	14.5	15.5		11.7	12.5	9.5	7.7	7.2	20.0		
22.0	11.1	12.5	15.3	18.2		11.6	13.5	15.3		11.5	12.5	9.5	7.7	7.1	22.0		
24.0	10.3	11.4	14.3	16		10.9	12.6	14		11	12.4	9.5	7.7	7	24.0		
26.0	9.6	10.6	13.1	14.7		10.2	11.8	13		10.5	12.2	9.5	7.7	6.9	26.0		
28.0	8.9	10	12.2	13.6		9.5	11	12		9.8	11.3	9.5	7.7	6.8	28.0		
30.0	8.4	9.4	11.2	12.6		9	10.2	11		9.5	10.5	9.5	7.6	6.6	30.0		
32.0	7.8	8.9	10.5	11.6		8.4	9.6	10.1		9	9.8	9	7.5	6.5	32.0		
34.0	7.3	8.3	9.7	10.7		8	8.9	9.4		8.5	9.2	8.5	7.3	6.4	34.0		
36.0	6.9	7.8	9	9.8		7.5	8.4	8.7		8	8.6	8	7	6.3	36.0		
38.0	6.5	7.3	8.5	9		7.1	7.9	8		7.6	8	7.6	6.8	6.2	38.0		
40.0	6.1	6.8	7.9	8.2		6.7	7.3	7.4		7.1	7.5	7.1	6.4	6.1	40.0		
42.0	5.8	6.3	7.4	7.6		6.4	6.9	7.1		6.8	6.9	6.7	6.2	6	42.0		
44.0	5.5	5.9	6.9	6.8		6	6.5	6.6		6.3	6.5	6.4	5.9	5.7	44.0		
46.0	5.2	5.5	6.4	6.1		5.6	6	5.8		5.9	6	6.1	5.7	5.6	46.0		
48.0	4.9	5.1	6	5.4		5.2	5.7	5.4		5.5	5.5	5.6	5.3	5.2	48.0		
50.0	4.7	4.7	5.5	5		4.9	5.3	5.1		5.2	5.2	5.3	5.1	4.9	50.0		
52.0	4.3	4.3	5.2	4.5		4.5	5	4.5		4.9	4.8	4.9	4.9	4.7	52.0		
54.0	4	4	4.7	4		4.2	4.5	4		4.6	4.5	4.6	4.5	4.3	54.0		
56.0	3.7	3.7	4.2	3.5		3.9	4.2	3.5		4.3	4.1	4.3	4.1	3.9	56.0		
58.0	3.4	3.4	4	3		3.6	3.8	3.1		4	3.7	3.8	3.7	3.5	58.0		
60.0						3.4	3.5	2.7		3.6	3.3	3.5	3.4	3.2	60.0		
62.0						3.2	3.3	2.4		3.4	3	3.1	3.2	3	62.0		
64.0						2.9	3	2.1		3.2	2.6	2.8	2.8	2.6	64.0		
66.0										2.9	2.3	2.5	2.5	2.4	66.0		
68.0										2.7	2	2.1	2.2	2.1	68.0		
70.0												1.8	2	1.8	70.0		
72.0												1.6	1.7	1.6	72.0		
74.0													1.5	1.4	74.0		
76.0													1.3	1.2	76.0		
78.0														1	78.0		
80.0															80.0		
Reeving	4					3					3		3	2	2	Reeving	
Hook	25t														Hook		
Telescoping mode	□	1	1	2	3		1	2	3		2	3	3	3	4	□	Telescoping mode
	□	2	3	3	3		3	3	3		3	3	3	3	4	□	
	□	3	3	3	3		3	3	3		3	3	3	4	4	□	
	□	3	3	3	3		3	3	3		3	3	3	4	4	□	
	□	3	3	3	2		3	3	3		3	3	3	4	4	□	
	□	3	3	2	2		3	3	2		3	3	3	4	4	□	
	3	2	2	2		3	2	2		3	2	3	4	4	□		

Lifting capacity tables / Lifting height charts

77 m main boom + 10.4 m jib OM



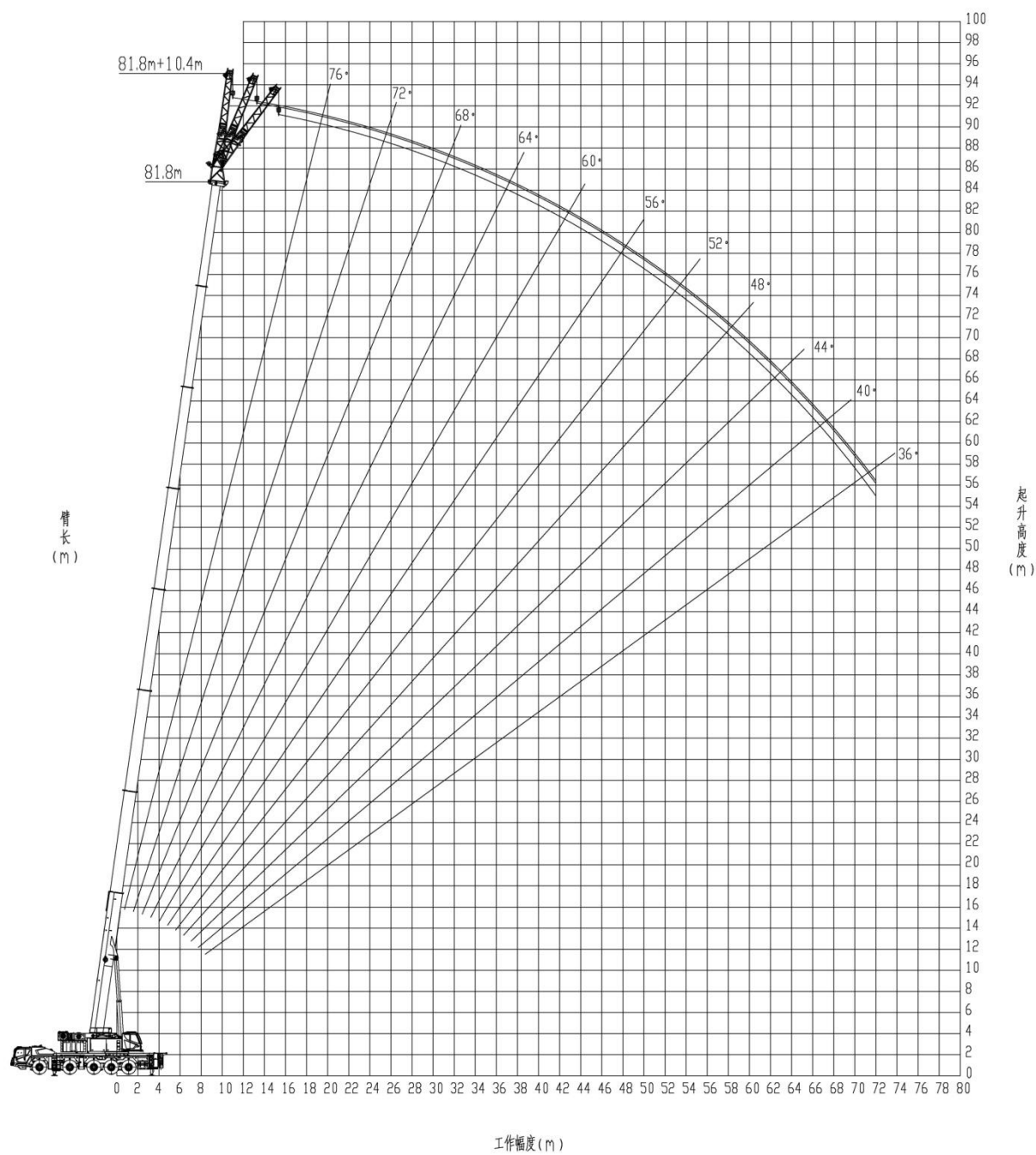
Note:

臂长(m) Boom length (m)

起升高度(m) Lifting height (m)

工作幅度(m) Working radius (m)

81.8 m main boom + 10.4 m jib OM



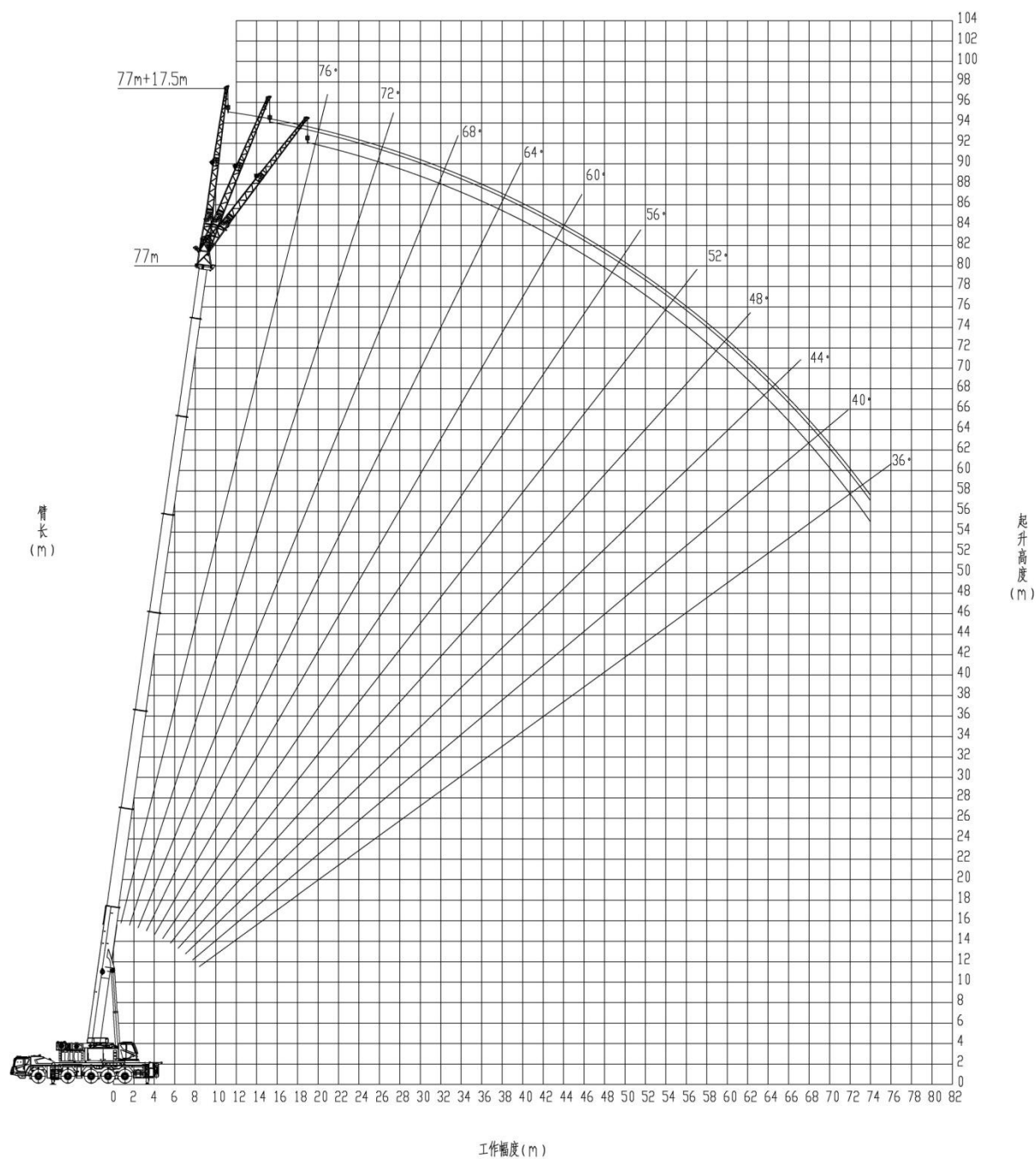
Note:

臂长(m) Boom length (m)

起升高度(m) Lifting height (m)

工作幅度(m) Working radius (m)

77 m main boom + 17.5 m jib OM



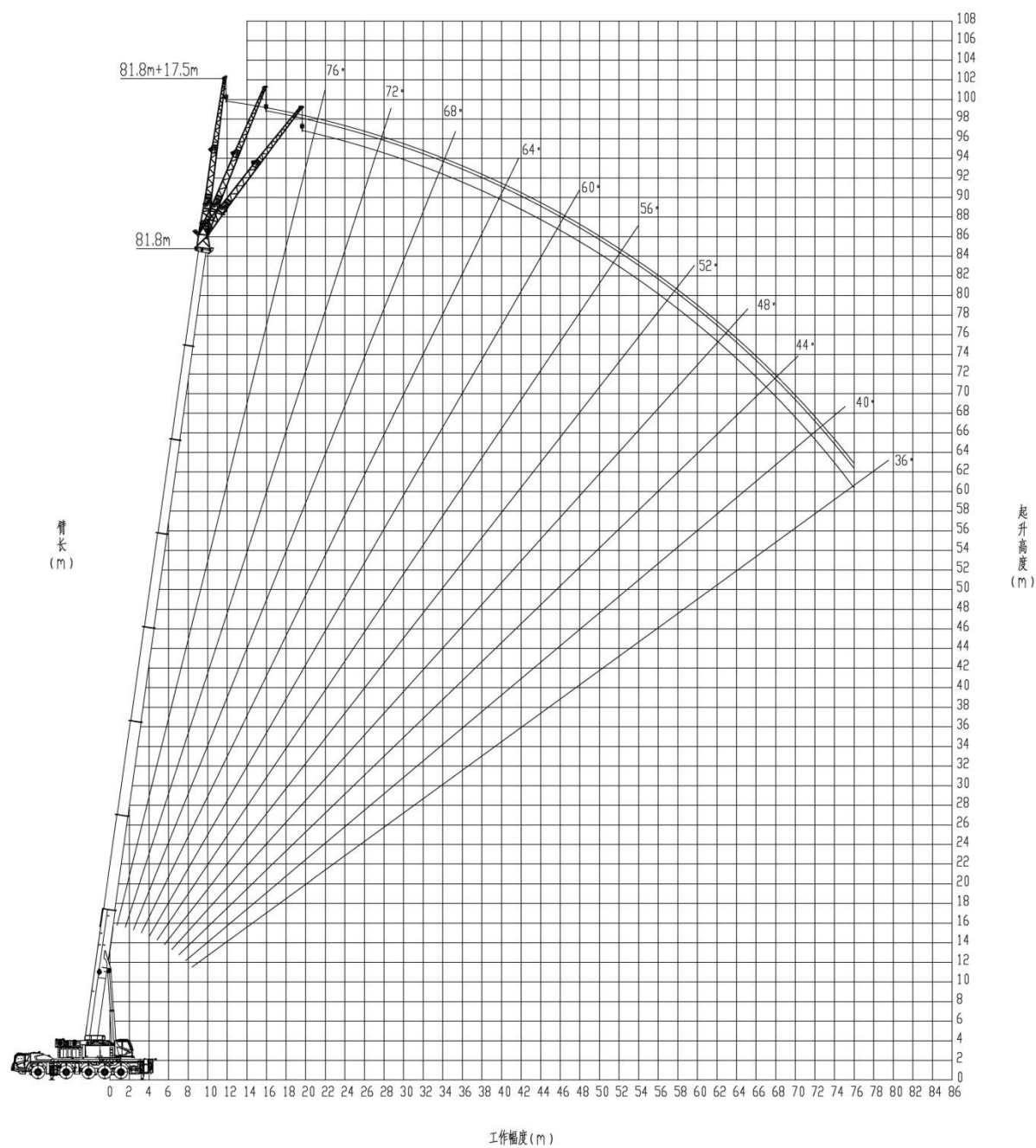
Note:

臂长(m) Boom length (m)

起升高度(m) Lifting height (m)

工作幅度(m) Working radius (m)

81.8 m main boom + 17.5 m jib OM



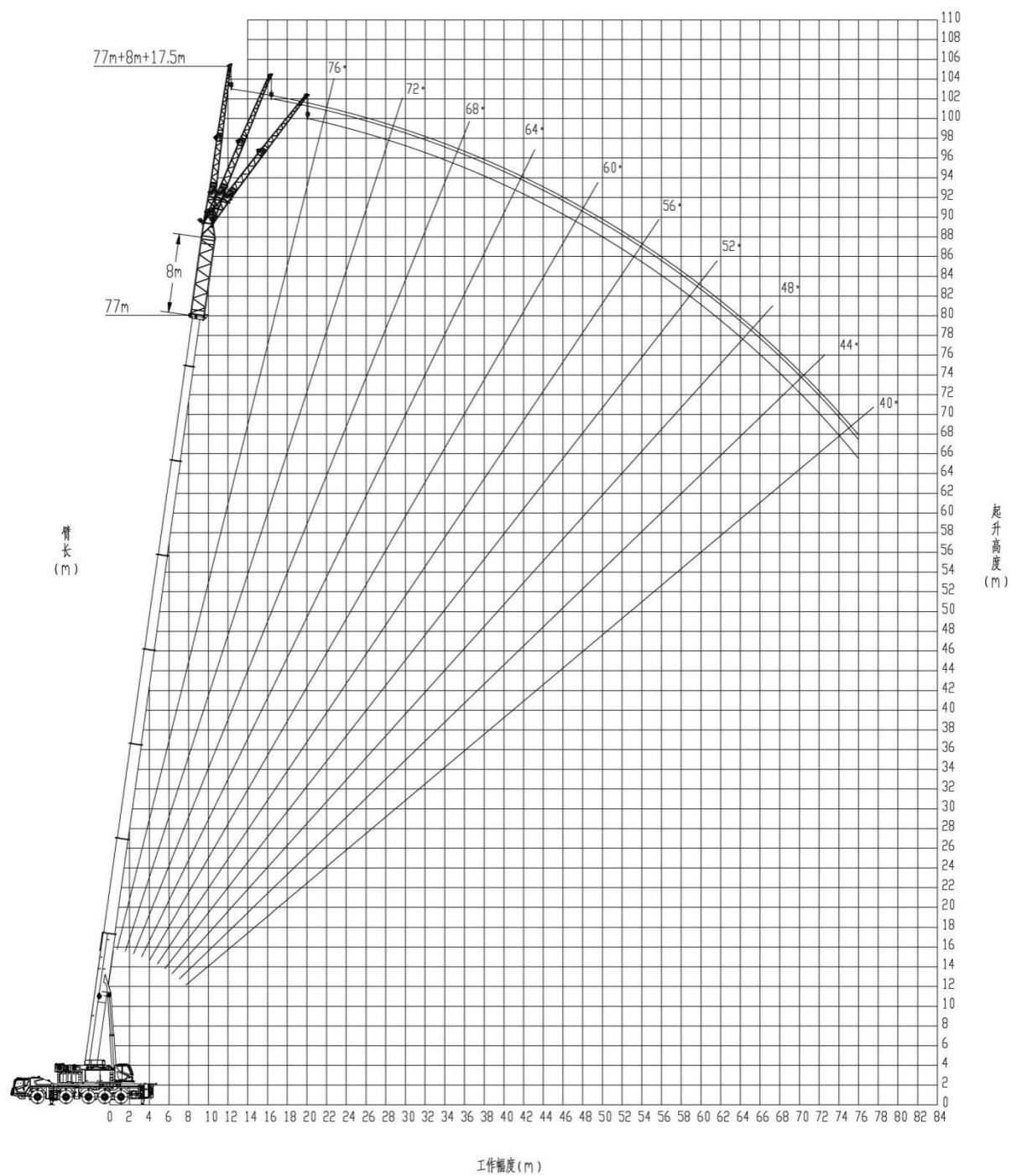
Note:

臂长(m) Boom length (m)

起升高度(m) Lifting height (m)

工作幅度(m) Working radius (m)

77 m main boom + 25.5 m jib OM



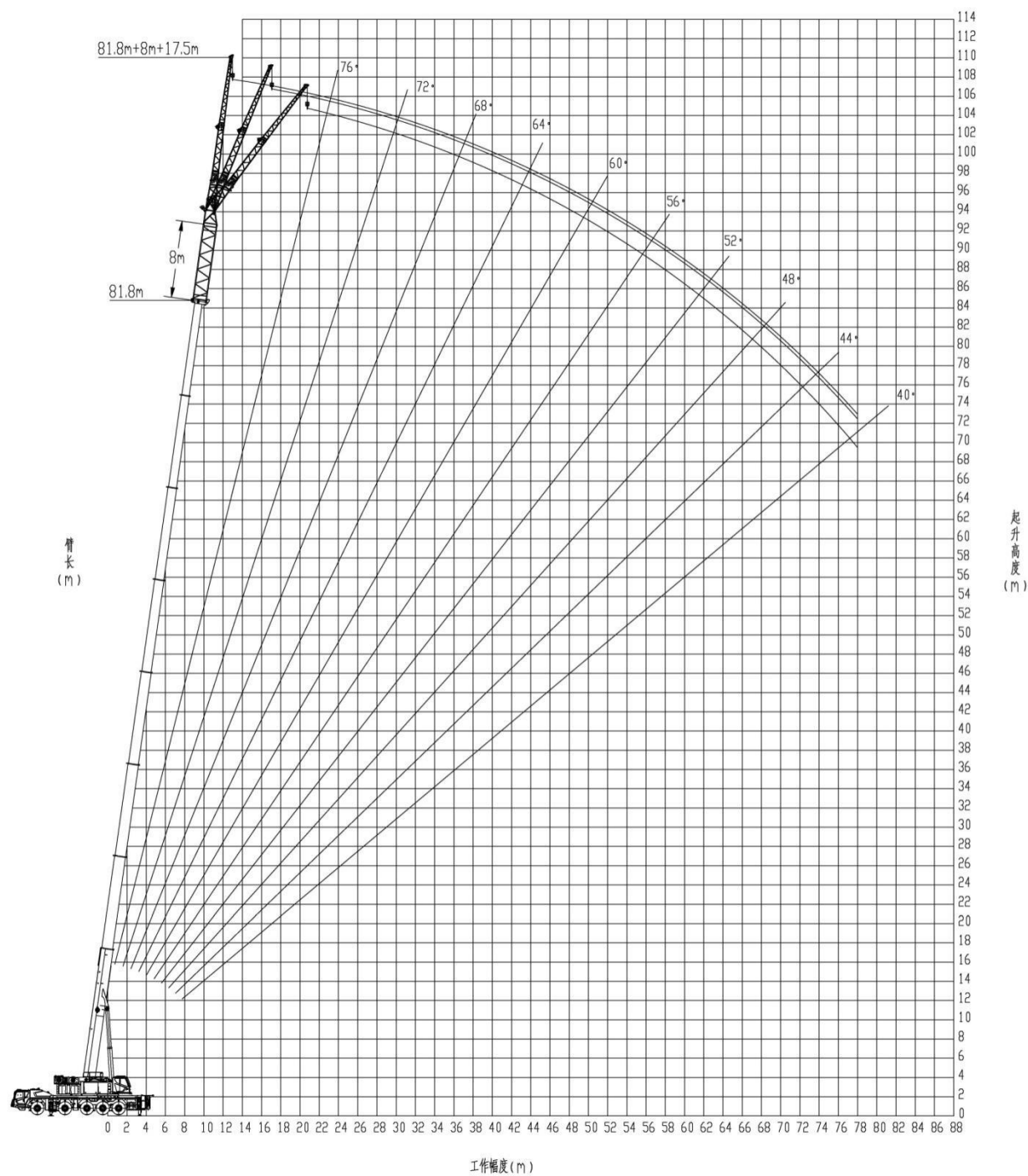
Note:

臂长(m) Boom length (m)

起升高度(m) Lifting height (m)

工作幅度(m) Working radius (m)

81.8 m main boom + 25.5 m jib OM



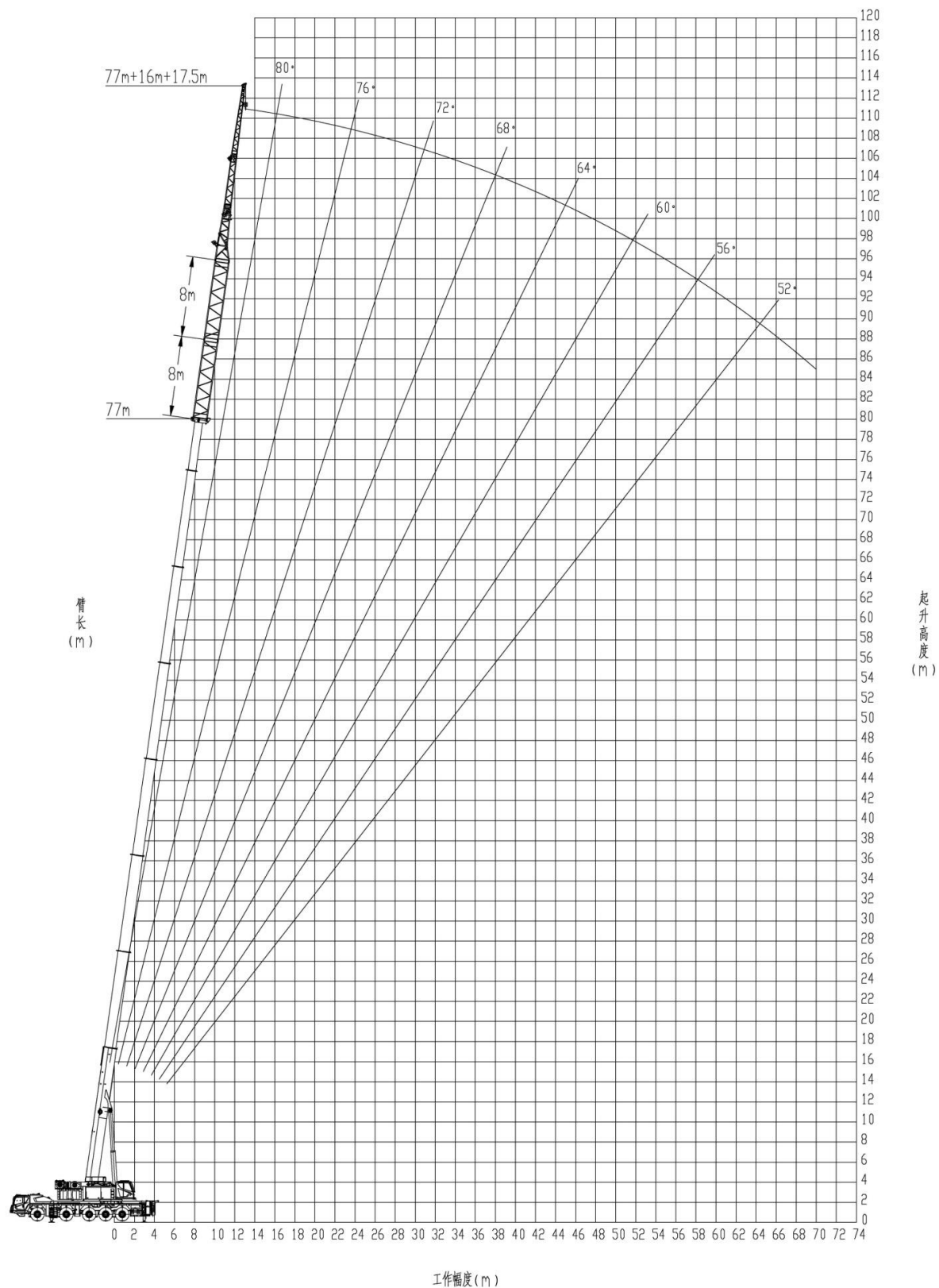
Note:

臂长(m) Boom length (m)

起升高度(m) Lifting height (m)

工作幅度(m) Working radius (m)

77 m main boom + 33.5 m jib OM



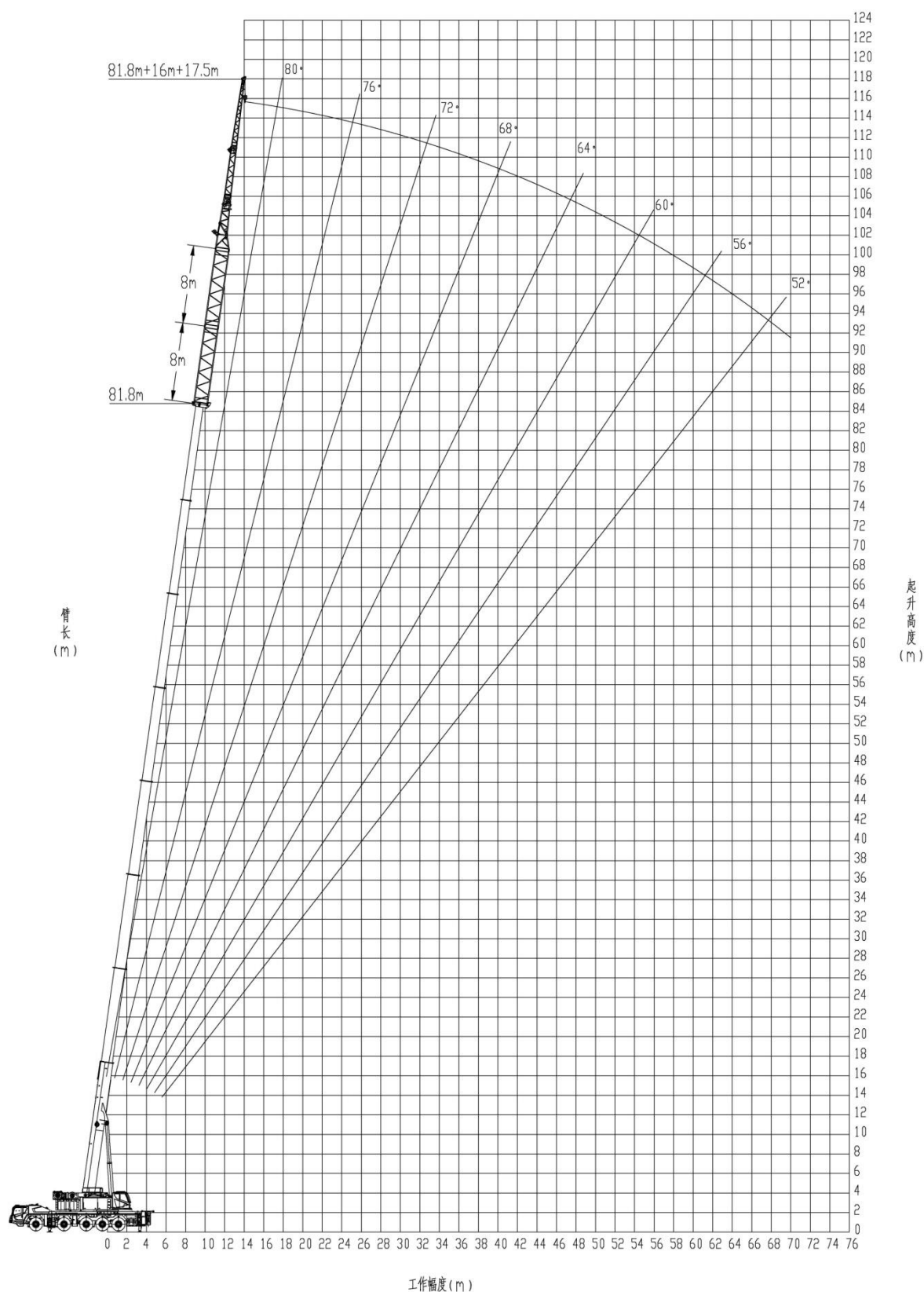
Note:

臂长(m) Boom length (m)

起升高度(m) Lifting height (m)

工作幅度(m) Working radius (m)

81.8 m main boom + 33.5 m jib OM



Note:

臂长(m) Boom length (m)

起升高度(m) Lifting height (m)

工作幅度(m) Working radius (m)

Table 9 Main boom + Jib

Unit: t

Outriggers completely extended 8.3 m, with 72 t counterweight, counterweight moved backwards for 0.5 m, over full range																					
Working radius (m)	Main boom (m) + Jib (m)																				Working radius (m)
	77			81.8			77			81.8			77			81.8			77	81.8	
	10.4			10.4			17.5			17.5			25.5			25.5			33.5	33.5	
	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	0°	
22.0	7.2	6.8					4														22.0
24.0	7.1	6.8	6.3	5.7			3.8	3		3.5											24.0
26.0	7	6.8	6.3	5.5	5.6		3.7	3	2.7	3.4	2.9		2.6								26.0
28.0	6.8	6.6	6.2	5.4	5.4	5.4	3.6	2.9	2.7	3.3	2.8	2.5	2.6	2.2							28.0
30.0	6.7	6.4	6.1	5.3	5.2	5.3	3.5	2.9	2.5	3.2	2.7	2.5	2.5	2.2	2	2.1			1.5		30.0
32.0	6.4	6.2	5.9	5.2	5.1	5.1	3.4	2.9	2.5	3	2.7	2.4	2.5	2.2	2	2.1	1.9		1.5	1.3	32.0
34.0	6.2	6	5.7	5	5	5	3.3	2.8	2.4	2.9	2.6	2.4	2.4	2.1	2	2.1	1.9	1.8	1.5	1.3	34.0
36.0	5.9	5.6	5.4	4.9	4.8	4.8	3.2	2.8	2.4	2.9	2.6	2.3	2.4	2.1	1.9	2.1	1.8	1.8	1.4	1.3	36.0
38.0	5.7	5.4	5.3	4.8	4.8	4.7	3.2	2.8	2.4	2.7	2.5	2.3	2.3	2.1	1.9	2.1	1.7	1.7	1.4	1.3	38.0
40.0	5.5	5.2	5.2	4.6	4.6	4.6	3	2.6	2.4	2.7	2.5	2.2	2.3	2	1.9	2.1	1.7	1.6	1.4	1.3	40.0
42.0	5.2	5.1	5	4.5	4.4	4.4	2.9	2.6	2.4	2.6	2.4	2.2	2.3	2	1.8	2	1.7	1.6	1.3	1.3	42.0
44.0	4.7	4.9	4.9	4.4	4.3	4.2	2.8	2.6	2.3	2.6	2.4	2.2	2.3	2	1.8	2	1.7	1.6	1.3	1.3	44.0
46.0	4.6	4.6	4.7	4.2	4.1	4.1	2.8	2.6	2.3	2.5	2.3	2.2	2.2	1.9	1.8	2	1.7	1.6	1.3	1.3	46.0
48.0	4.2	4.4	4.3	4	4	4	2.7	2.5	2.3	2.5	2.3	2.1	2.2	1.9	1.7	2	1.7	1.6	1.3	1.2	48.0
50.0	4.1	4.1	4.1	3.9	3.8	3.9	2.7	2.5	2.3	2.4	2.2	2.1	2.2	1.9	1.7	2	1.6	1.5	1.3	1.2	50.0
52.0	3.8	3.8	3.9	3.7	3.6	3.7	2.6	2.5	2.2	2.4	2.2	2.1	2.2	1.8	1.7	1.9	1.6	1.5	1.2	1.2	52.0
54.0	3.5	3.5	3.6	3.4	3.4	3.4	2.6	2.4	2.2	2.3	2.2	2.1	2.2	1.8	1.6	1.9	1.6	1.5	1.2	1.2	54.0
56.0	3.2	3.2	3.2	3.1	3.1	3.1	2.6	2.3	2.2	2.3	2.2	2	2.1	1.8	1.6	1.9	1.6	1.5	1.2	1.2	56.0
58.0	2.8	2.9	2.9	2.8	2.8	2.8	2.5	2.3	2.1	2.3	2.1	2	2.1	1.8	1.6	1.9	1.6	1.5	1.2	1.2	58.0
60.0	2.5	2.6	2.5	2.6	2.6	2.6	2.4	2.2	2.1	2.2	2.1	2	2	1.8	1.6	1.8	1.6	1.5	1.1	1.2	60.0
62.0	2.2	2.3	2.3	2.4	2.4	2.4	2.3	2.2	2.1	2.2	2.1	2	2	1.8	1.6	1.8	1.6	1.5	1.1	1.2	62.0
64.0	2	2.1	2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.9	1.9	1.8	1.6	1.7	1.5	1.4	1.1	1.1	64.0
66.0	1.8	1.8	1.8	1.9	1.9	1.9	2	2	1.9	2.1	2	1.9	1.8	1.8	1.5	1.6	1.5	1.4	1.1	1.1	66.0
68.0	1.5	1.6	1.5	1.7	1.8	1.7	1.8	1.8	1.8	1.8	2	1.9	1.7	1.7	1.5	1.5	1.4	1.4	1.1	1.1	68.0
70.0	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.6	1.7	1.7	1.8	1.8	1.6	1.5	1.5	1.4	1.4	1.4	1.1	1.1	70.0
72.0				1.2	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.4	1.4	1.4	1.2	1.2	1.2			72.0
74.0							1.2	1.2	1.2	1.2	1.3	1.3	1.2	1.2	1.2	1.1	1.1	1.1			74.0
76.0										1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1			76.0
78.0																1.1	1.1	1.1			78.0
80.0																					80.0
82.0																					82.0
84.0																					84.0
86.0																					86.0
88.0																					88.0
Reeving	1																				Reeving
Hook	9t																				Hook

Note:

Telescoping combination of 77 m boom length: 3333332

Telescoping combination of 81.8 m boom length: 3333333

10.4 m jib: Adaptor I + adaptor II + jib section I

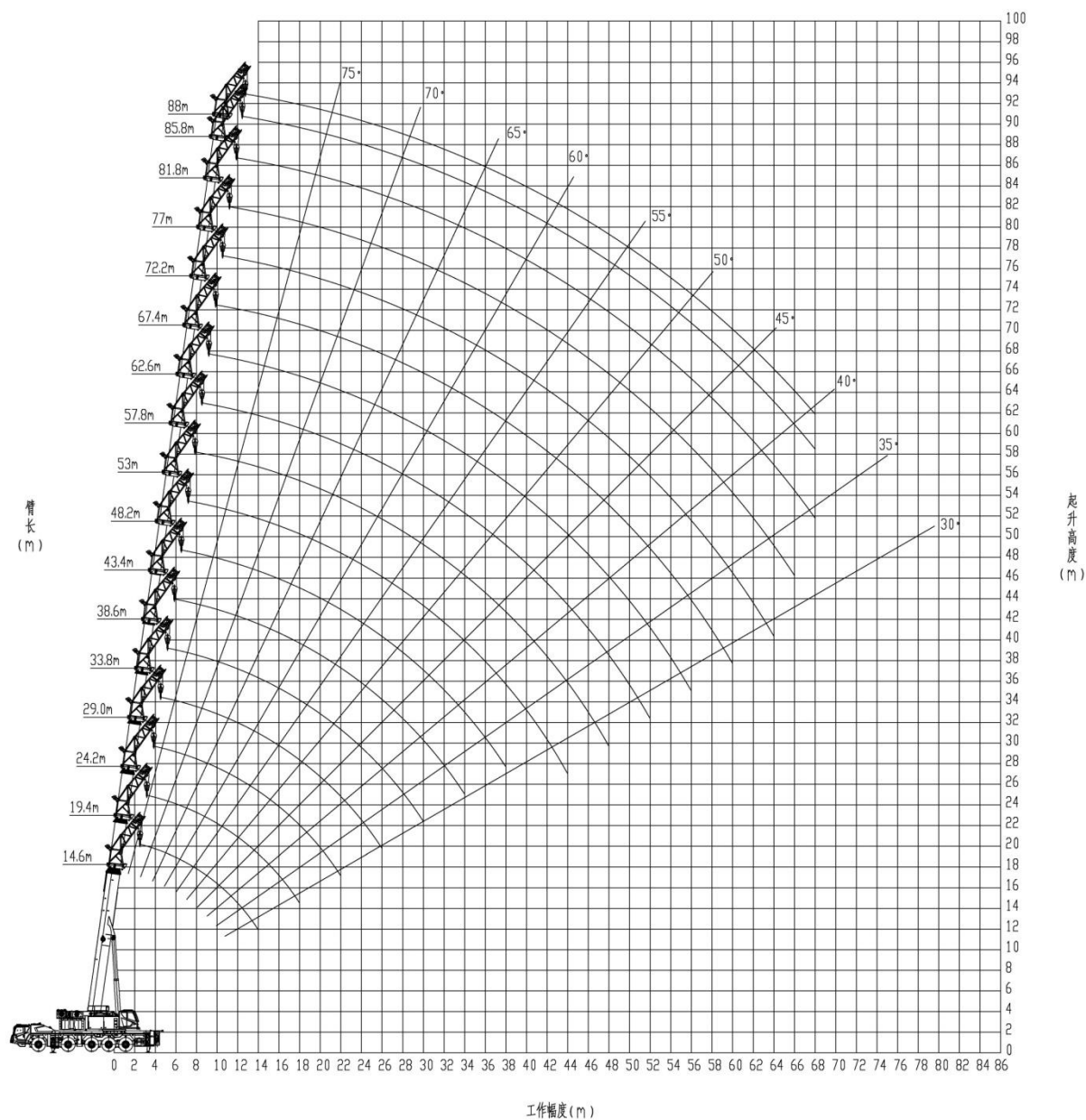
17.5 m jib: Adaptor I + adaptor II + jib section I + jib section II

25.5 m jib: 8 m Extension + adaptor I + adaptor II + jib section I + jib section II

33.5 m jib: 8 m Extension + 8 m extension + adaptor I + adaptor II + jib section I + jib section II

Lifting capacity tables / Lifting height charts

Main boom + tip boom OM



Note:

臂长(m) Boom length (m)

起升高度(m) Lifting height (m)

工作幅度(m) Working radius (m)

Table 10-1 Main boom + Tip boom

Unit: t

Outriggers completely extended 8.3 m, with 72 t counterweight, over full range																	
Working radius (m)	Main boom (m) + 4.9 m tip boom														Working radius (m)		
	14.6 ★	19.4	19.4	19.4	19.4	19.4	19.4 ★	24.2	24.2	24.2	24.2	24.2	24.2	24.2 ★			
3.0															3.0		
3.5	24.0														3.5		
4.0	23.9	22.5	23.0	23.0	23.0	23.0	23.0								4.0		
4.5	23.8	22.3	22.6	22.6	22.6	22.6	22.6								4.5		
5.0	23.7	22.1	22.4	22.4	22.4	22.4	22.4	21.5	22	22.3	23	23	23.5	23.5	5.0		
6.0	22.6	21.8	22.0	22.0	22.0	22.0	22.0	21.5	21.8	22	22.6	22.6	23	23.0	6.0		
7.0	21.8	21.5	21.7	21.7	21.7	21.7	21.7	21.3	21.5	21.7	22.3	22.3	22.5	22.5	7.0		
8.0	21.2	20.8	21.0	21.0	21.0	21.0	21.0	20.6	21.3	21.5	21.8	21.8	22	22.0	8.0		
9.0	20.7	20.3	20.5	20.5	20.5	20.5	20.5	20	20.8	21	21.3	21.3	21.5	21.6	9.0		
10.0	19.9	20.0	20.3	20.3	20.3	20.3	20.3	19.1	20.4	20.5	20.8	20.8	21.1	21.3	10.0		
12.0	18.2	19.2	19.3	19.3	19.3	19.3	19.3	17.8	19.1	19.5	19.8	19.8	20.5	20.6	12.0		
14.0	17.1	18.1	18.4	18.4	18.4	18.4	18.4	16.8	17.2	18.6	19	19	19.5	19.8	14.0		
16.0		17.6	17.9	17.9	17.9	17.9	17.9	15.9	15.3	18	18.2	18.2	18.7	19.0	16.0		
18.0		16.6	16.7	16.7	16.7	16.7	17.5	15.2	14	17.7	17.7	17.7	18.1	18.3	18.0		
20.0								14.5	12.6	17.2	17.5	17.5	17.8	17.9	20.0		
22.0								14	11.5	15.5	17.1	17.1	17.5	17.7	22.0		
24.0															24.0		
26.0															26.0		
28.0															28.0		
30.0															30.0		
32.0															32.0		
34.0															34.0		
36.0															36.0		
38.0															38.0		
40.0															40.0		
42.0															42.0		
44.0															44.0		
46.0															46.0		
48.0															48.0		
50.0															50.0		
52.0															52.0		
54.0															54.0		
56.0															56.0		
58.0															58.0		
60.0															60.0		
62.0															62.0		
64.0															64.0		
66.0															66.0		
68.0															68.0		
70.0															70.0		
72.0															72.0		
74.0															74.0		
76.0															76.0		
78.0															78.0		
80.0															80.0		
Reeving	3	3						3							Reeving		
Hook	25t														Hook		
Telescoping mode	I	1	1	1	1	1	1	1	1	1	1	1	1	2	I	Telescoping mode	
	II	1	1	1	1	1	1	2	1	1	1	1	1	2	2		II
	III	1	1	1	1	1	2	1	1	1	1	1	2	2	1		III
	IV	1	1	1	1	2	1	1	1	1	1	2	2	1	1		IV
	V	1	1	1	2	1	1	1	1	1	2	2	1	1	1		V
	VI	1	1	2	1	1	1	1	1	2	2	1	1	1	1		VI
	VII	1	2	1	1	1	1	1	3	2	1	1	1	1	1		VII

Table 10-2 Main boom + Tip boom

Unit: t

Outriggers completely extended 8.3 m, with 72 t counterweight, over full range																
Working radius (m)	Main boom (m) + 4.9 m tip boom														Working radius (m)	
	29	29	29	29	29	29	29 ★	33.8	33.8	33.8	33.8	33.8	33.8	33.8 ★		
3.0															3.0	
3.5															3.5	
4.0															4.0	
4.5															4.5	
5.0															5.0	
6.0	18.2	19.5	21.8	22.1	22.3	22.8	23.0								6.0	
7.0	17.5	18	21.7	22	22	22.3	22.5	16	17.5	21.5	21.8	22	22.3	22.5	7.0	
8.0	16	16.7	21.5	21.8	21.8	21.9	22.0	14.5	16.5	21.4	21.7	21.8	22	22.2	8.0	
9.0	14.8	15.2	21	21.5	21.5	21.7	21.8	13.5	15.3	19.8	21.5	21.7	21.8	22.0	9.0	
10.0	13.7	14	20.8	21.3	21.3	21.5	21.6	12.4	14	18.3	21.2	21.4	21.5	21.6	10.0	
12.0	12.8	12	20	20.6	20.6	20.9	21.0	10.9	12.3	16	20.6	20.8	20.9	21.0	12.0	
14.0	10.5	10.8	19.2	19.7	19.7	20.1	20.2	9.6	10.8	14	19.6	20.1	20.4	20.5	14.0	
16.0	9.6	9.5	17.4	18.8	18.8	19.7	19.8	8.5	9.6	12.5	18.8	19.3	19.8	20.0	16.0	
18.0	8.6	8.5	15.8	18.3	18.3	18.9	19.0	7.8	8.6	11	17.4	18.7	19.3	19.5	18.0	
20.0	7.8	7.8	14.5	17.7	17.9	18.2	18.4	7	7.8	10.2	15.9	18	18.8	19.2	20.0	
22.0	7.2	7	13.4	17.1	17.3	17.8	17.9	6.3	7.1	9.3	14.8	17.7	18.3	18.6	22.0	
24.0	6.6	6.5	12.4	16	17.1	17	16.8	5.8	6.6	8.5	13.8	17.3	17.8	18.2	24.0	
26.0	6.1	6	11.5	14.5	16.9	16.5	16.2	5.3	6	7.7	12.7	16.7	17.2	17.0	26.0	
28.0								4.9	5.5	7.2	11.8	15.4	16	14.7	28.0	
30.0								4.5	5.2	6.7	11.2	14.5	14	12.8	30.0	
32.0															32.0	
34.0															34.0	
36.0															36.0	
38.0															38.0	
40.0															40.0	
42.0															42.0	
44.0															44.0	
46.0															46.0	
48.0															48.0	
50.0															50.0	
52.0															52.0	
54.0															54.0	
56.0															56.0	
58.0															58.0	
60.0															60.0	
62.0															62.0	
64.0															64.0	
66.0															66.0	
68.0															68.0	
70.0															70.0	
72.0															72.0	
74.0															74.0	
76.0															76.0	
78.0															78.0	
80.0															80.0	
Reeving	3							3							Reeving	
Hook	25t														Hook	
Telescoping mode	I	1	1	1	1	1	1	2	1	1	1	1	1	1	2	I
	II	1	1	1	1	1	2	2	1	1	1	1	1	2	2	II
	III	1	1	1	1	2	2	2	1	1	1	1	2	2	2	III
	IV	1	1	1	2	2	2	1	1	1	1	2	2	2	2	IV
	V	1	1	2	2	2	1	1	1	2	3	2	2	2	1	V
	VI	2	3	2	2	1	1	1	3	3	2	2	2	1	1	VI
	VII	3	2	2	1	1	1	1	3	2	2	2	1	1	1	VII
Telescoping mode																

Table 10-3 Main boom + Tip boom

Unit: t

Outriggers completely extended 8.3 m, with 72 t counterweight, over full range																		
Working radius (m)	Main boom (m) + 4.9 m tip boom															Working radius (m)		
	38.6	38.6	38.6	38.6	38.6	38.6	38.6 ★	43.4	43.4	43.4	43.4	43.4	43.4	43.4 ★				
3.0																3.0		
3.5																3.5		
4.0																4.0		
4.5																4.5		
5.0																5.0		
6.0																6.0		
7.0																7.0		
8.0	15.0	16.8	17.3	21.3	21.5	22.0	22.0									8.0		
9.0	13.7	15.8	16.0	20.5	21.0	21.5	21.5	14.2	14.8	16.6	20.8	20.9	21.6	21.6		9.0		
10.0	12.7	14.7	14.8	19.0	20.7	21.2	21.2	13.5	13.7	15.5	19.7	20.6	21.2	21.2		10.0		
12.0	12.0	13.8	13.7	17.7	20.0	20.9	20.9	11.8	11.9	13.7	17.1	19.8	20.5	20.8		12.0		
14.0	11.3	13.0	12.8	16.5	19.8	20.4	20.4	10.5	10.5	12	15.1	18.9	19.8	20.3		14.0		
16.0	9.9	11.5	11.2	14.5	19.0	20.0	20.0	9.4	9.3	10.8	13.4	16.9	19.2	19.9		16.0		
18.0	8.8	10.4	10.0	13.0	18.4	19.4	19.6	8.5	8.2	9.7	12	15.2	18.8	19.6		18.0		
20.0	7.9	9.4	9.0	11.6	17.1	18.9	19.3	7.8	7.4	8.8	10.8	13.7	18	19.3		20.0		
22.0	7.2	8.6	8.1	10.4	15.8	18.4	19.1	7.1	6.7	8.1	9.9	12.5	17.2	19.0		22.0		
24.0	6.5	7.8	7.3	9.5	14.8	18.0	18.6	6.5	6.1	7.3	9	11.4	16.2	18.6		24.0		
26.0	5.9	7.2	6.7	8.6	14.0	17.6	17.8	6	5.5	6.7	8.2	10.4	15.3	17.7		26.0		
28.0	5.4	6.7	6.1	7.9	13.0	16.8	15.5	5.5	5.1	6.3	7.5	9.6	14.5	16.2		28.0		
30.0	5.0	6.2	5.6	7.3	12.2	15.0	13.6	5.1	4.7	5.7	6.9	8.9	13.6	14.3		30.0		
32.0	4.6	5.8	5.1	6.8	11.7	13.3	11.9	4.8	4.3	5.4	6.4	8.1	13	12.7		32.0		
34.0	4.3	5.4	4.8	6.2	11.0	11.8	10.4	4.5	3.9	4.9	5.9	7.6	12.4	11.2		34.0		
36.0								4.2	3.6	4.7	5.5	7.1	11.4	9.9		36.0		
38.0								3.9	3.3	4.3	5.1	6.6	10.3	8.9		38.0		
40.0																40.0		
42.0																42.0		
44.0																44.0		
46.0																46.0		
48.0																48.0		
50.0																50.0		
52.0																52.0		
54.0																54.0		
56.0																56.0		
58.0																58.0		
60.0																60.0		
62.0																62.0		
64.0																64.0		
66.0																66.0		
68.0																68.0		
70.0																70.0		
72.0																72.0		
74.0																74.0		
76.0																76.0		
78.0																78.0		
80.0																80.0		
Reeving	3							3							Reeving			
Hook	25t															Hook		
Telescoping mode	I	1	1	1	1	1	1	2	1	1	1	1	1	1	2	I		
	II	1	1	1	1	1	2	2	1	1	1	1	1	2	2	II		
	III	1	1	1	1	2	2	2	1	1	1	2	3	2	2	III		
	IV	1	1	2	3	2	2	2	1	2	3	3	2	2	2	IV		
	V	2	3	3	2	2	2	2	3	3	3	2	2	2	2	V		
	VI	3	3	2	2	2	2	1	3	3	2	2	2	2	2	VI		
	VII	3	2	2	2	2	1	1	3	2	2	2	2	2	1	VII		

Table 10-4 Main boom + Tip boom

Unit: t

Outriggers completely extended 8.3 m, with 72 t counterweight, over full range																		
Working radius (m)	Main boom (m) + 4.9 m tip boom															Working radius (m)		
	48.2	48.2	48.2	48.2	48.2	48.2	48.2 ★	53	53	53	53	53	53	53 ★				
3.0																3.0		
3.5																3.5		
4.0																4.0		
4.5																4.5		
5.0																5.0		
6.0																6.0		
7.0																7.0		
8.0																8.0		
9.0																9.0		
10.0																10.0		
12.0	11.4	12.6	14.3	17.8	19	19.5	19.8	11.9	13.1	14.8	19.1	19.7	19.7	19.7		12.0		
14.0	10.1	11.2	12.8	15.8	19	19.2	19.5	10.5	11.7	13.3	17.2	19.2	19.3	19.3		14.0		
16.0	8.9	10	11.5	14.3	17.5	18	19.1	9.5	10.6	12.1	15.5	17.1	18.6	18.6		16.0		
18.0	7.9	9	10.4	12.9	15.7	16.2	18.7	8.5	9.5	11	14.1	15.3	17.6	17.8		18.0		
20.0	7.1	8.1	9.5	11.7	14.2	15.4	18.0	7.7	8.7	10.1	12.9	13.8	16	17.3		20.0		
22.0	6.5	7.4	8.7	10.7	12.8	13.2	17.6	7	7.9	9.3	11.9	12.4	14.6	16.8		22.0		
24.0	5.9	6.8	8	9.8	11.7	12	17.1	6.4	7.3	8.6	10.9	11.3	13.3	16.2		24.0		
26.0	5.3	6.2	7.4	9.1	10.7	10.9	16.7	5.9	6.8	8	10.1	10.3	12.2	15.1		26.0		
28.0	4.9	5.7	6.8	8.3	9.9	10	16.2	5.4	6.2	7.5	9.3	9.4	11.3	14.0		28.0		
30.0	4.5	5.2	6.4	7.7	9.1	9.2	15.1	5	5.8	6.9	8.6	8.6	10.4	13.0		30.0		
32.0	4.1	4.9	5.9	7.2	8.3	8.5	13.4	4.6	5.3	6.5	7.8	7.8	9.6	12.1		32.0		
34.0	3.8	4.5	5.4	6.7	7.7	7.8	11.9	4.2	5	6.1	7.2	7.2	9	11.2		34.0		
36.0	3.5	4.1	5	6.2	7.1	7.3	10.7	4	4.6	5.7	6.7	6.6	8.4	10.2		36.0		
38.0	3.2	3.9	4.6	5.8	6.5	6.6	9.6	3.6	4.3	5.2	6.1	6	7.7	9.2		38.0		
40.0	3	3.6	4.3	5.4	6.1	6.2	8.5	3.3	4.1	4.9	5.7	5.6	7.2	8.1		40.0		
42.0	2.7	3.3	4	5	5.6	5.8	7.7	3.2	3.8	4.6	5.2	5.1	6.8	7.2		42.0		
44.0	2.5	3.1	3.7	4.8	5.3	5.3	6.8	2.9	3.5	4.2	4.9	4.7	6.3	6.4		44.0		
46.0								2.7	3.2	4	4.5	4.3	5.9	5.7		46.0		
48.0								2.5	3	3.7	4.1	4	5.5	4.9		48.0		
50.0																50.0		
52.0																52.0		
54.0																54.0		
56.0																56.0		
58.0																58.0		
60.0																60.0		
62.0																62.0		
64.0																64.0		
66.0																66.0		
68.0																68.0		
70.0																70.0		
72.0																72.0		
74.0																74.0		
76.0																76.0		
78.0																78.0		
80.0																80.0		
Reeving	3							3							Reeving			
Hook	25t															Hook		
Telescoping mode	I	1	1	1	1	1	1	2	1	1	1	1	1	2	3	I		
	II	1	1	1	1	2	3	2	1	1	1	2	3	3	2	II		
	III	1	1	2	3	3	2	2	1	2	3	3	3	2	2	III		
	IV	2	3	3	3	2	2	2	3	3	3	3	2	2	2	IV		
	V	3	3	3	2	2	2	2	3	3	3	2	2	2	2	V		
	VI	3	3	2	2	2	2	2	3	3	2	2	2	2	2	VI		
	VII	3	2	2	2	2	2	2	3	2	2	2	2	2	2	VII		

Table 10-5 Main boom + Tip boom

Unit: t

Outriggers completely extended 8.3 m, with 72 t counterweight, over full range																	
Working radius (m)	Main boom (m) + 4.9 m tip boom														Working radius (m)		
	57.8	57.8	57.8	57.8	57.8	57.8 □				62.6	62.6	62.6	62.6	62.6 □			
3.0															3.0		
3.5															3.5		
4.0															4.0		
4.5															4.5		
5.0															5.0		
6.0															6.0		
7.0															7.0		
8.0															8.0		
9.0															9.0		
10.0															10.0		
12.0															12.0		
14.0	10.8	12.2	14.1	18	18	18.2									14.0		
16.0	9.9	11	12.9	16.5	17.5	17.5				10	11.5	13	16	16.3	16.0		
18.0	9	10	11.8	14.8	16.6	16.9				9.3	10.7	12.5	15.5	15.8	18.0		
20.0	8.2	9.2	10.9	13.2	14.9	16.2				8.6	9.8	11.6	14	15.0	20.0		
22.0	7.5	8.5	10.1	12	13.7	15.0				7.8	9.1	10.8	13	13.9	22.0		
24.0	6.8	7.7	9.4	10.8	12.5	14.0				7.2	8.5	10.1	11.8	13.0	24.0		
26.0	6.3	7.2	8.7	9.8	11.4	13.1				6.7	7.8	9.5	10.9	12.1	26.0		
28.0	5.9	6.7	8.2	9	10.4	12.2				6.2	7.3	8.8	10	11.3	28.0		
30.0	5.4	6.2	7.7	8.2	9.6	11.5				5.8	6.8	8	9.2	10.6	30.0		
32.0	5	5.8	7.2	7.5	8.9	10.7				5.4	6.4	7.4	8.5	9.9	32.0		
34.0	4.7	5.4	6.8	6.8	8.2	10.1				5	6	6.8	7.7	9.2	34.0		
36.0	4.3	5	6.4	6.3	7.6	9.4				4.7	5.7	6.1	7.2	8.7	36.0		
38.0	4.1	4.8	5.9	5.8	7	8.7				4.4	5.3	5.7	6.7	7.9	38.0		
40.0	3.8	4.4	5.5	5.2	6.5	8.0				4.1	5	5.1	6.1	7.3	40.0		
42.0	3.5	4.1	5	4.9	6	7.2				3.9	4.7	4.8	5.7	6.6	42.0		
44.0	3.3	4	4.7	4.4	5.6	6.5				3.7	4.4	4.3	5.2	6.1	44.0		
46.0	3.1	3.7	4.3	4.1	5.1	5.7				3.4	4.2	4	4.8	5.5	46.0		
48.0	2.9	3.4	4	3.7	4.8	5.0				3.2	4	3.6	4.4	4.9	48.0		
50.0	2.7	3.2	3.7	3.3	4.4	4.3				3.1	3.7	3.3	4.1	4.3	50.0		
52.0	2.5	3	3.3	3.1	4.1	3.7				2.9	3.4	3	3.8	3.7	52.0		
54.0										2.7	3.1	2.7	3.4	3.1	54.0		
56.0										2.5	2.9	2.4	3.2	2.7	56.0		
58.0															58.0		
60.0															60.0		
62.0															62.0		
64.0															64.0		
66.0															66.0		
68.0															68.0		
70.0															70.0		
72.0															72.0		
74.0															74.0		
76.0															76.0		
78.0															78.0		
80.0															80.0		
Reeving	3										2					Reeving	
Hook	25t										25t					Hook	
Telescoping mode	□	1	1	1	1	2	3				1	1	1	2	3	□	Telescoping mode
	□	1	1	2	3	3	3				1	2	3	3	3	□	
	□	2	3	3	3	3	2				3	3	3	3	3	□	
	□	3	3	3	3	2	2				3	3	3	3	2	□	
	□	3	3	3	2	2	2				3	3	3	2	2	□	
	□	3	3	2	2	2	2				3	3	2	2	2	□	
	□	3	2	2	2	2	2				3	2	2	2	2	□	

Table 10-6 Main boom + Tip boom

Unit: t

Outriggers completely extended 8.3 m, with 72 t counterweight, over full range																	
Working radius (m)	Main boom (m) + 4.9 m tip boom														Working radius (m)		
	67.4	67.4	67.4	67.4 □		72.2	72.2	72.2 □		77	77 □	81.8 □	85.8 □	88 □			
3.0															3.0		
3.5															3.5		
4.0															4.0		
4.5															4.5		
5.0															5.0		
6.0															6.0		
7.0															7.0		
8.0															8.0		
9.0															9.0		
10.0															10.0		
12.0															12.0		
14.0															14.0		
16.0															16.0		
18.0	9.6	10.6	11	11.4		9.8	10.3	11.1							18.0		
20.0	9.1	10.2	10.8	11.1		9.3	10	10.7		8.2	8.8	7.5			20.0		
22.0	8.4	9.5	10.6	10.8		8.8	9.8	10.2		8	8.6	7.4			22.0		
24.0	7.8	9	10.1	10.4		8.2	9.3	9.8		7.6	8.2	7.2	5.6	5.6	24.0		
26.0	7.3	8.5	10	10.2		7.6	9	9.4		7.2	8.0	7.0	5.4	5.4	26.0		
28.0	6.8	7.9	9.5	9.9		7.2	8.5	9.0		6.8	7.6	6.9	5.3	5.3	28.0		
30.0	6.3	7.5	8.9	9.6		6.7	7.9	8.6		6.6	7.4	6.8	5.2	5.2	30.0		
32.0	5.9	7	8.2	9.1		6.3	7.5	8.3		6.3	7.1	6.5	5.0	5.0	32.0		
34.0	5.6	6.6	7.6	8.5		6	7.1	7.9		6	6.8	6.3	4.9	4.9	34.0		
36.0	5.2	6.1	7	8.0		5.7	6.7	7.5		6	6.5	6.0	4.7	4.7	36.0		
38.0	4.9	5.7	6.5	7.4		5.4	6.3	7.0		5.8	6.4	5.8	4.5	4.5	38.0		
40.0	4.6	5.2	5.9	6.9		5	5.9	6.6		5.5	6.0	5.4	4.4	4.4	40.0		
42.0	4.3	4.8	5.5	6.4		4.8	5.4	6.2		5.2	5.7	5.3	4.2	4.2	42.0		
44.0	4.1	4.4	5	5.8		4.5	5	5.7		5	5.4	5.1	4.0	4.0	44.0		
46.0	3.9	4.1	4.7	5.3		4.1	4.7	5.2		4.6	5.0	4.9	3.8	3.8	46.0		
48.0	3.7	3.7	4.3	4.8		3.8	4.3	4.9		4.2	4.7	4.7	3.7	3.7	48.0		
50.0	3.4	3.3	4	4.4		3.5	4	4.4		3.9	4.5	4.3	3.6	3.6	50.0		
52.0	3.2	3.1	3.7	4.0		3.2	3.7	3.9		3.6	4.1	4.0	3.5	3.5	52.0		
54.0	3.1	2.8	3.3	3.4		3	3.4	3.6		3.3	3.6	3.7	3.4	3.4	54.0		
56.0	2.9	2.5	3.1	3.0		2.7	3.1	3.1		3	3.2	3.4	3.2	3.2	56.0		
58.0	2.7	2.3	2.8	2.5		2.4	2.8	2.8		2.8	2.9	3.0	2.9	2.9	58.0		
60.0	2.5	2	2.5	2.1		2.2	2.6	2.4		2.5	2.6	2.7	2.6	2.6	60.0		
62.0						2	2.3	2.0		2.3	2.3	2.3	2.3	2.3	62.0		
64.0						1.8	2.1	1.6		2	2.0	2.0	1.9	1.9	64.0		
66.0										1.7	1.7	1.8	1.6	1.6	66.0		
68.0												1.5	1.3	1.3	68.0		
70.0															70.0		
72.0															72.0		
74.0															74.0		
76.0															76.0		
78.0															78.0		
80.0															80.0		
Reeving	2					2					2		2	2	2	Reeving	
Hook	25t														Hook		
Telescoping mode	□	1	1	2	3		1	2	3		2	3	3	3	4	□	Telescoping mode
	□	2	3	3	3		3	3	3		3	3	3	3	4	□	
	□	3	3	3	3		3	3	3		3	3	3	4	4	□	
	□	3	3	3	3		3	3	3		3	3	3	4	4	□	
	□	3	3	3	2		3	3	3		3	3	3	4	4	□	
	□	3	3	2	2		3	3	2		3	3	3	4	4	□	
	□	3	2	2	2		3	2	2		3	2	3	4	4	□	

Components, superstructure

Main boom

- 8 boom sections made of 1100MPa high-tensile steel
- Optimal oviform boom profile of particular tensional rigidity, outstanding local stability and for the super lifting capacities
- Main boom length: 14.6 m - 88 m

Jib

- Jib variants: 10.4 m, 17.5 m, 25.5 m (One section of 8 m jib extension is available for options.), 33.5 m (Two sections of 8 m jib extension are available for options.)
- The adaptor of the jib can be used as the tip boom independently.

Telescoping system

- The telescopic boom is telescoped by the single-stage telescoping cylinder with hydraulic interlocking device.
- Rapid-cycle telescoping system with “automatic mode”, i.e. all-automatic telescoping to the desired boom length in sequence.

Hoist gear

- Hydraulic motor + planetary reducer
- The main and auxiliary winches can be operated independently or simultaneously.
- High-performance rotation-resistant ropes can be used without swivel under load and can be arranged orderly on the drum; the press nipple can be used for rapid reeving change.

Luffing gear

- One hydraulic cylinder, providing the boom with smooth luffing movements from -0.5° to 82°

Slewing gear

- Two slewing gears, consisting of hydraulic motor and planetary reducer
- Slewing speed: 0 – 1.5 rpm

Slewing table

- Box-type, torsion resistant design of high-tensile steel, providing super load bearing capacity

Operator's cab

- 4.0 series spacious panoramic cab with sliding door, outward pushing windshield, front foot pedal, safe guard rail around the roof of the cab
- No instrument console and electric elements are in the front of the cab. And thus, you can have a good riding experience due to spacious room and comfortable feeling.
- Integrated bus key panel is compact, simple and reliable. Night vision background light is clear and makes night work safe.
- Vertical 10.4 inch two-in-one LCD (touch screen) integrates all of functions and has good observation angle. And thus, you can have good operation experience.
- It is with USB plug. And thus, it is chargeable.
- The cab can be tilted for 0-20° to improve operator's field of vision and reduce the operation intensity.
- Cab heater and air conditioning.

Counterweight

- 72t total counterweight among which 42t main body counterweights (4 pieces), 9t side counterweights (2 pieces) and 6t side counterweights (2 pieces)
- Counterweight combinations include 0t, 12t, 22t, 32t, 42t, 60t and 72t.
- Each counterweight combination can be moved backwards for 0.5m.

Hook

- Hook: 130t, 110t, 70t (ramshorn hook), 70t (single hook), 25t, 9t.
- Among which, 70t (single hook) and 9t hooks are standard configurations. The rest ones are available for options.

Hood

- In frame-type structure, beautiful appearance
- It is made of aluminium alloy. And thus, it is reliable and durable.

Central lubricating system

- Both the superstructure and the chassis adopt the central lubricating system.
- All the lubricating points are automatically supplied with the correct grease quantity for prolonged crane service life and easy maintenance.

Control system

- Superstructure operating mode consists of the electro-hydraulic proportional operation and the computer integrated control. Superstructure hydraulic system adopts open and closed combined system.
- It is of these functions such as the counterweight self-assembly and dismantling function, the operator's cab tilting angle adjustment function, which have good starting and braking stability as well as the higher system reliability.

Monitoring system

- Applying the bus technology, the superstructure and the chassis can monitor the outrigger pressures and the tilting angle of the chassis frame in real time. And thus, prevent the dangerous situations from happening.
- The complete vehicle is equipped with several encoders and sensors which can monitor each system state of the vehicle in real time. Combining with the upgraded safety strategy, prevent the dangerous situations from happening. And thus, realize the high efficient safety operation.

Superstructure engine

- Model: Weichai WP7G270E301
- Type: 6-cylinder in line, turbo-charged, intercooled (air-air)
- Exhaust emission standard: Off-road emission China III (GB 20891-2014)
- Rated maximum power / RPM: 199 kW at 2000 r/min
- Max. output torque / RPM: 1200 N.m at 1200 -1500r/min

Components, chassis

Engine

- Model: WP12.460E50
- Type: 6-cylinder in line, turbo-charged, intercooled
- Displacement: 11.596 L
- Rated power / RPM: 338 kW at 1900 r/min
- Max. output torque / RPM: 2110 N.m at 1000 -1400r/min
- Exhaust emission standard: Europe V emission standard
- Capacity of diesel oil tank: 500 L.

Transmission

- F12JZ22A automatic transmission manufactured by Shaanxi FAST Auto Drive Co., Ltd.
- The hydraulic retarder is available for options.
- 12 forward and 2 reverse speeds

Transfer case

- 2-gear transfer case (speed ratio: 1/1.75)

Propeller shaft

- The vehicle adopts an open propeller shaft arrangement with the contrate gear flange which complies with the international standard. It is convenient to assemble and properly fixed. The included angle of the propeller shaft is small. Moreover, it is durable and reliable.

Axles

- Manufacturer: Luzhou Kishiler Engineering Technology Co., Ltd.
- Axle load: 13 tons
- 3 axles are mechanically drive.
- All axles steer. 3 axles are mechanical drive. Axles 2, 4 and 5 are steer and drive axles. Axles 1 and 3 are steer and driven axles.
- Axles 1 and 5 adopt disc brakes, while axles 2, 3 and 4 adopt drum brakes.

Outrigger

- H type two sectional outrigger, box-shaped section, made of high-tensile steel ($\sigma_s=960\text{MPa}$)

Tires

- Tubeless tire
- Tire size: 445/95R25 radial tires
- Tire pressure: 1 MPa
- Rim type: 25-10.00/1.5 (optional: 25-11.00/1.7)
- Tightening torque of tire bolt: 650 – 700 N.m

Steering system

- All-wheel variable steering system with 6 steering programs
- The steering system consists of a double-channel steering gear and a single axle double cylinder booster. A neutral locking cylinder set in each electrical control steer axle can make sure that each electrical control axle can move back to neutral position timely, and thus make sure that the vehicle has good travel stability. The system is equipped with an emergency steering device. When the main steering oil pump cannot work during travelling, the emergency pump installed on the front end of the transfer case supplies the power to the steering hydraulic system.
- Axles 1 and 2 are mechanically steered by the steering wheel. Axles 3, 4 and 5 are steered by the electric proportional valve.
- Drive the electric proportional steer valve to control the movements of the steering booster cylinder and the neutral locking cylinder via PLC.

Suspension

- All axles with hydro-pneumatic suspension and automatic leveling system
- Load equalization between the axle pairs
- The axles are hydro-pneumatically sprung via hydraulic cylinders and are hydraulically lockable. Entire vehicle can be raised or lowered and its left / right side can also be raised or lowered independently. All tires can be raised or lowered after the crane is supported on outriggers.
- The synchronized extension and retraction movements of suspension cylinders can be realized by the speed control valve fitted in the oil line of suspension control valve.

Brake system

- It consists of service brake, parking brake (emergency brake) and auxiliary brake.
- Service brake: dual-circuit air brake system, acting on 4 disc brakes and 6 drum brakes
- Parking brake (Emergency brake): spring-loaded brake, acting on 2 disc brakes and 4 drum brakes
- Auxiliary brake: in-cylinder engine brake, transmission hydraulic retarder brake (optional)
- Double circuit brake system. Axles 1 and 5 adopt the disc brakes and axles 2, 3 and 4 adopt the drum brakes.

-
- The auxiliary brake is used for long descending gradients to minimize wear of the brake.
 - The brake system is with ABS.

Electrical system

- CAN data bus technology
- The driver's cab is equipped with a large multifunctional electronic display screen (touch screen) in multiple interfaces with convenient interactive functions.
- Generator: 28 V, 80 A
- With visible reversing device and acoustic warning system
- It can perform a vehicle fault diagnosis, display and storage.

Driver's cab

- 4.0 series full-width and all-metal welded spacious cab with flexible lining is of convincing design and outstanding functionality
- The control elements and displays are arranged according to ergonomic factors, thus for safe and convenient handling at permanent operation
- The cab is with the following features:
 - Height and inclination adjustable steering wheel, power windows, windshield wiper & washing device and large reflectors
 - The instrument console equipped with all kinds of instruments, control lights, control switches, cigarette lighter, USB interface and MP3 player and so on
 - Adjustable cab heater / defroster and single-cooling air conditioning
 - Rearview camera
 - The comfortable seats with armrests and high backrest. (The pneumatically suspended driver's seat can be adjusted automatically to suit any driver height and size.)

Appendix

Table of main purchased parts

No.	Description	Manufacturer	Remarks
1	Engine	WEICHAI Power Co., Ltd.	
2	Radiator assy.	April Heat Exchanger (Suzhou) Co., Ltd. Zhejiang Yinlun Mechanical Incorporated Company	
3	Transmission	Shaanxi FAST Auto Drive Co., Ltd.	AMT, with hydraulic retarder (optional)
4	Transfer case	Zhuzhou Gear Co., Ltd.	
5	Axle	Luzhou Kishiler Engineering Technology Co., Ltd.	
6	Driver's cab assy.	Changsha Meihua Automobile Manufacturing Co., Ltd.	
7	Suspension cylinder	Zoomlion Teli Hydraulic Co., Ltd.	
8	Tires	ZC Rubber Group Co., Ltd. Techking Tires Ltd. AEOLUS Tyre Co., Ltd.	
9	Rim	Zhengxing wheel Group Co., Ltd.	
10	Steering gear	Nantong HuanQiu Steering Gear Manufacturing Company Jiangmen Steering Gear Co., Ltd.	
11	Steering rod	ZF/Chongqing Huirui	
12	Thrust rod assy.	ZF	
13	Propeller shaft	Xuchang YuanDong Propeller shaft Co., Ltd.	
14	Double gear pump	Jinan Hydraulic Pump Limited Liability Company	
15	Variable pump	Hytek Power Co., Ltd.	
16	Steering control valve	Zoomlion Hydraulic	
17	Suspension control valve	Bucher / Zoomlion Hydraulic	
18	Accumulator	Changsha Guangzhan Electromechanical Co., Ltd.	
19	LCD	Zoomlion	

Note:

The equipment fitted in the crane is subject to changes due to design improvements or other reasons. Therefore, the above table is for reference only.