

Technical Parameters

Item		Value	Remarks
Work performance	Max. rated lifting capacity kg	450000	
	Max. load moment of basic boom T*m	1260	
Work speeds	Max. hoist rope speed (main winch) m/min	130	At the 6 th layer
	Boom extending time min	≤8	
	Boom derricking up time s	≤85	
	Slewing speed r/min	≤1	
Driving	Max. operating altitude m	2000	
	Max. driving speed km/h	65	With 5 section boom
	Approach angle °	16.5	
	Departure angle °	15	
	Max. gradeability %	45	
	Min. turning diameter m	24	
	Min ground clearance mm	415	
	Brake distance m	10	At 30 km/h
Limits for exhaust pollutants and smoke	National stage V		
Mass	Deadweight in driving condition kg	72000	
	Axle load kg	12000	
Dimensions	Overall dimensions (L × W × H) mm	18215×3000×4000	Driving condition
	Outrigger spread (L) m	8.8	
	Outrigger spread (W) m	8.8	
	Main boom length m	15.4 – 60	
	Boom angle °	-0.4 – 82	

Optional Configuration

Optional Configuration Table

No.	Configuration Name	Remark
1	Hook	220 T , 80 T, 12 T hook
2	Superlift	Can be self-assembled/disassembled
3	Flexible counterweight	40 T counterweight should be selected while equipped with superlift or luffing jib or TBM jib

2.5 Part of lifting capacity tables (Unit: Metric ton)

2.5.1 Main boom lifting tables

Table 6-1 Main boom lifting table

															Unit:T		
Radius/boom length (m)	Main boom 15.4 m – 60 m, outrigger fully extended, over full range, without superlift, 140 T counterweight														Radius/boom length (m)		
	15.4	20.4			25.4				30.4				35.4				
3	450*															3	
3.5	220	180	160	125												3.5	
4	220	175	160	120	165	160	120	76								4	
4.5	210	170	160	116	165	160	118	72	145	135	82	78				4.5	
5	200	168	160	110	165	158	115	67	145	130	78	75	125	104		5	
6	175	165	150	102	162	152	110	60	145	121	70	68	125	94		6	
7	160	161	141	94	161	141	104	55	140	114	63	62	120	86		7	
8	144	145	127	87	145	128	96	50	132	106	58	57	112	78		8	
9	132	133	116	82	134	117	88	46	124	99	52	52	105	72		9	
10	126	125	107	77	125	108	71	43	115	92	49	47	98	67		10	
12	98	99	91	69	100	93	70	38	100	81	43	43	87	58.5		12	
14		86	80	62	87	80	62	34	88	71	38	38	77	51.5		14	
16		72	68	58	73	70	55	30	74	62	34	34	68	46		16	
18					65	59	50	28	66	54	30.5	31	65	41.5		18	
20					57	51	45	25.5	58	49	28	28	57	37.8		20	
22					45	44	42	23.5	51	44	25.7	26	52	34.5		22	
24									45	40	23.7	24	48	31.8		24	
26									41	37	22	22	42	29.5		26	
28													38	27.5		28	
30													34	25.7		30	
32													28	24		32	
Telescopin g mode	I	1	1	1	1	2	1	1	1	2	1	1	1	2	1	I	Telescopin g mode
	II	1	2	1	1	2	2	1	1	2	2	1	1	2	3	II	
	III	1	1	2	1	1	2	2	1	2	2	3	2	2	2	III	
	IV	1	1	1	2	1	1	2	3	1	2	2	3	2	2	IV	
Reeving	22	18		14	16	16	14	8	14	14	10	8	12	10	Reeving		

Table 6-2 Main boom lifting table

Unit:T

Radius/boom length (m)	Main boom 15.4 m – 60 m, outrigger fully extended, over full range, without superlift, 140 T counterweight														Radius/boom length (m)		
	35.4		40.4				45.4				50.4		55.4	60			
5	80	68														5	
6	75	61														6	
7	68	55	92	90	76	60										7	
8	64	51	86	82	70	56	72	70	62	60						8	
9	58	46	79	76	65	52	69	66	58.5	56	58	55				9	
10	55	43	74	72	60	48	65	61	54.5	53	56	54	48			10	
12	51	37	66	64	52	42	59	54.5	48	47	52	48	46	38		12	
14	46	33	60	57	46	38	54	48.5	42.5	42	47	43	42	38		14	
16	39	29.5	54	51	41	34	47	43	38.5	38	43	39	40	36		16	
18	35	26.7	49	46	37	31	43	39.5	35	34.5	39	36	36	34		18	
20	32	24.2	46	43	34	28	39	36	32	31.5	36	33	33	32		20	
22	30	22.2	42	39	31	25.5	35	33	29.5	29	33	30.5	30	29		22	
24	28	20.5	39	36	28.5	23.5	32	30	27	26.5	31	28	28	27		24	
26	26	19	36	34	26.5	21.5	30	28	25	24.5	29	26	26	25		26	
28	24	17.6	34	31	24.5	20.2	28.5	26.5	23.4	23	27	24.5	24	23		28	
30	23	16.5	31	29	22.5	18.9	26.5	24.8	21.8	21.3	25	23	22	21.5		30	
32	22	15.5	29	27.6	21.5	17.7	25	23	20.6	20	23	21.5	21	20		32	
34			26	24	20	16.6	23	21.8	19.3	18.7	21.5	20	20	18.5		34	
36			23	22	19	15.5	22	20.5	18.2	17.5	20	19	19.1	17.4		36	
38							21	19.5	17.2	16.5	19	18	18	16.3		38	
40							19	18.5	16.4	15.5	17.8	17	16.9	15.2		40	
42											17	16	16	14.3		42	
44											16	15.3	15.1	13.4		44	
46											13	13.5	14.4	12.6		46	
48													13.7	11.8		48	
50													11.8	11.2		50	
52														10.4		52	
54														10		54	
56														9		56	
Telescoping mode	I	1	1	3	2	1	1	3	2	2	1	3	2	3	4	I	Telescoping mode
	II	2	1	2	3	3	2	3	3	2	3	3	3	3	4	II	
	III	2	3	2	2	3	3	2	3	3	3	3	3	3	4	III	
	IV	3	3	2	2	2	3	2	2	3	3	2	3	3	4	IV	
Reevinq	8	8	10	10	8	8	8	8	8	6	6	6	6	6	4	Reevinq	

Table 7-1 Main boom lifting table

Unit:T

Radius/boom length (m)	Main boom 15.4 m – 60 m, outrigger fully extended, over full range, without superlift, 120 T counterweight														Radius/boom length (m)	
	15.4	20.4			25.4				30.4				35.4			
3.5	220	180	160	125												3.5
4	220	175	160	120	165	160	120	76								4
4.5	210	170	160	116	165	160	118	72	145	135	82	78				4.5
5	200	168	160	110	165	158	115	67	145	130	78	75	125	104		5
6	175	165	150	102	162	152	110	60	145	121	70	68	125	94		6
7	160	161	141	94	161	141	104	55	140	114	63	62	120	86		7
8	144	145	127	87	145	128	96	50	132	106	58	57	112	78		8
9	125	133	116	82	126	117	88	46	124	99	52	52	105	72		9
10	120	118	107	77	115	108	71	43	115	92	49	47	98	67		10
12	94	94	91	69	91	89	70	38	100	81	44	43	87	58.5		12
14		81	80	62	78	72	62	34	85	71	38.5	38	77	51.5		14
16		65	62	58	66	63	55	30	70	62	34.5	34	68	46		16
18					57	53	50	28	59	54	31.5	31	63	41.5		18
20					50	46	45	25.5	50	47	28.6	28	54	37.8		20
22					40	39	41	23.5	43	42	26	26	46.8	34.5		22
24									38	39	24.3	24	41.4	31.8		24
26									34	35	22.5	22	36.9	29.5		26
28													33.3	27.5		28
30													29.7	25.7		30
32													26	24		32
Telescoping mode	I	1	1	1	1	2	1	1	1	2	1	1	1	2	1	I
	II	1	2	1	1	2	2	1	1	2	2	1	1	2	3	II
	III	1	1	2	1	1	2	2	1	2	2	3	2	2	2	III
	IV	1	1	1	2	1	1	2	3	1	2	2	3	2	2	IV
Reeving	22	18		14	16	16	14	8	14	14	10	8	12	10	Reeving	

Table 7-2 Main boom lifting table

Unit:T

Radius/boom length (m)	Main boom 15.4 m – 60 m, outrigger fully extended, over full range, without superlift, 120 T counterweight														Radius/boom length (m)		
	35.4		40.4				45.4				50.4		55.4	60			
5	80	68														5	
6	75	61														6	
7	68	55	92	90	76	60										7	
8	64	51	86	82	70	56	72	70	62	60						8	
9	58	46	79	76	65	52	69	66	58.5	56	58	55				9	
10	55	43	74	72	60	48	65	61	54.5	53	56	54	48			10	
12	51	37	66	64	52	42	59	54.5	48	47	52	48	46	38		12	
14	46	33	60	57	46	38	54	48.5	42.5	42	47	43	42	38		14	
16	39	29.5	54	51	41	34	47	43	38.5	38	43	39	40	36		16	
18	35	26.7	49	46	37	31	43	39.5	35	34.5	39	36	36	34		18	
20	32	24.2	46	43	34	28	39	36	32	31.5	36	33	33	32		20	
22	30	22.2	42	39	31	25.5	35	33	29.5	29	33	30.5	30	29		22	
24	28	20.5	39	36	28.5	23.5	32	30	27	26.5	31	28	28	27		24	
26	26	19	36	34	26.5	21.5	30	28	25	24.5	29	26	26	25		26	
28	24	17.6	32	31	24.5	20.2	28.5	26.5	23.4	23	27	24.5	24	23		28	
30	23	16.5	28.7	29	22.5	18.9	26.5	24.8	21.8	21.3	25	23	22	21.5		30	
32	22	15.5	26	26.5	21.5	17.7	25	23	20.6	20	23	21.5	21	20		32	
34			23.6	24	20	16.6	22.5	21.8	19.3	18.7	21.5	20	20	18.5		34	
36			21.5	22	19	15.5	21	20.5	18.2	17.5	20	19	19.1	17.4		36	
38							19	19.2	17.2	16.5	19	18	18	16.3		38	
40							17.6	18	16.4	15.5	17.8	17	16.9	15.2		40	
42											16.5	16	16	14.3		42	
44											15.3	15.3	15.1	13.4		44	
46											12.5	13	14.4	12.6		46	
48													13.7	11.8		48	
50													11.5	11.2		50	
52														10.4		52	
54														10		54	
56														9		56	
Telescoping mode	I	1	1	3	2	1	1	3	2	2	1	3	2	3	4	I	Telescoping mode
	II	2	1	2	3	3	2	3	3	2	3	3	3	3	4	II	
	III	2	3	2	2	3	3	2	3	3	3	3	3	3	4	III	
	IV	3	3	2	2	2	3	2	2	3	3	2	3	3	4	IV	
Reevinq	8	8	10	10	8	8	8	8	8	6	6	6	6	6	4	Reevinq	

Table 8-1 Main boom lifting table

Unit:T

Radius/boom length (m)	Main boom 15.4 m – 60 m, outrigger fully extended, over full range, without superlift, 100 T counterweight														Radius/boom length (m)	
	15.4	20.4			25.4				30.4				35.4			
3.5	200	175	160	125												3.5
4	190	170	160	120	165	160	120	76								4
4.5	185	165	155	116	165	160	118	72	145	135	82	78				4.5
5	180	162	152	110	162	158	115	67	145	130	78	75	125	104		5
6	170	160	146	102	160	152	110	60	145	121	70	68	125	94		6
7	155	156	140	94	145	141	104	55	140	114	63	62	120	86		7
8	140	141	127	87	138	128	96	50	132	106	58	57	112	78		8
9	120	121	116	82	120	117	88	46	120	99	52	52	105	72		9
10	108	110	105	77	109	108	71	43	110	92	49	47	98	67		10
12	88	84	86	69	91	92	70	38	92	81	44	43	87	58.5		12
14		65	66	62	70	72	62	34	72	71	38.5	38	74	51.5		14
16		53	54	58	57	59	55	30	60	62	34.5	34	64	46		16
18					47	49	49	28	51	52	31.5	31	53	41.5		18
20					40	42	43	25.5	43	45	28.6	28	45	37.8		20
22					34	36	37	23.5	37	39	26	26	39	34.5		22
24									32	34	24.3	24	35	31.8		24
26									28	30	22.5	22	30	29.5		26
28													27	27.5		28
30													24	25		30
32													21	22		32
Telescoping mode	I	1	1	1	1	2	1	1	1	2	1	1	1	2	1	I
	II	1	2	1	1	2	2	1	1	2	2	1	1	2	3	II
	III	1	1	2	1	1	2	2	1	2	2	3	2	2	2	III
	IV	1	1	1	2	1	1	2	3	1	2	2	3	2	2	IV
Reeving	22	18		14	16	16	14	8	14	14	10	8	12	10	Reeving	

Table 8-2 Main boom lifting table

Unit:T

Radius/boom length (m)	Main boom 15.4 m – 60 m, outrigger fully extended, over full range, without superlift, 100 T counterweight														Radius/boom length (m)		
	35.4		40.4				45.4				50.4		55.4	60			
5	80	68														5	
6	75	61														6	
7	68	55	92	90	76	60										7	
8	64	51	86	82	70	56	72	70	62	60						8	
9	58	46	79	76	65	52	69	66	58.5	56	58	55				9	
10	55	43	74	72	60	48	65	61	54.5	53	56	54	48			10	
12	51	37	66	64	52	42	59	54.5	48	47	52	48	46	38		12	
14	46	33	60	57	46	38	54	48.5	42.5	42	47	43	42	38		14	
16	39	29.5	54	51	41	34	47	43	38.5	38	43	39	40	36		16	
18	35	26.7	49	46	37	31	43	39.5	35	34.5	39	36	36	34		18	
20	32	24.2	45	43	34	28	39	36	32	31.5	36	33	33	32		20	
22	30	22.2	39.4	39	31	25.5	35	33	29.5	29	33	30.5	30	29		22	
24	28	20.5	34.5	35.2	28.5	23.5	32	30	27	26.5	31	28	28	27		24	
26	26	19	30.4	31.2	26.5	21.5	29.5	28	25	24.5	29	26	26	25		26	
28	24	17.6	27	27.8	24.5	20.2	26.2	26.5	23.4	23	26.8	24.5	24	23		28	
30	23	16.5	24.1	24.9	22.5	18.9	23.4	24.5	21.8	21.3	24	23	22	21.5		30	
32	22	15.5	21.6	22.4	21.5	17.7	21	22	20.6	20	21.5	21.5	21	20		32	
34			19.5	20.2	20	16.6	19	20	19.3	18.7	19.5	20	20	18.5		34	
36			17.6	18	19	15.5	17.2	18.2	18.2	17.5	17.5	18.5	18.4	17.4		36	
38							15.6	16.6	17.2	16.5	16	17.3	16.8	16.3		38	
40							14.2	15.2	15.8	15.5	14.5	16	15.4	15		40	
42											13.4	14.7	14.1	13.7		42	
44											12.3	13.5	13	12.6		44	
46											10.6	11.7	12	11.6		46	
48													11	10.7		48	
50													9	9.5		50	
52														9		52	
54														8.4		54	
56														7.5		56	
Telescoping mode	I	1	1	3	2	1	1	3	2	2	1	3	2	3	4	I	Telescoping mode
	II	2	1	2	3	3	2	3	3	2	3	3	3	3	4	II	
	III	2	3	2	2	3	3	2	3	3	3	3	3	3	4	III	
	IV	3	3	2	2	2	3	2	2	3	3	2	3	3	4	IV	
Reeving	8	8	10	10	8	8	8	8	8	6	6	6	6	6	4	Reeving	

Table 9-1 Main boom lifting table

Unit:T

Radius/boom length (m)	Main boom 15.4 m – 60 m, outrigger fully extended, over full range, without superlift, 80 T counterweight														Radius/boom length (m)	
	15.4	20.4			25.4				30.4				35.4			
3.5	195	170	160	125												3.5
4	185	165	160	120	160	160	120	76								4
4.5	180	160	155	116	158	156	118	72	145	135	82	78				4.5
5	175	155	150	110	155	152	115	67	145	130	78	75	125	104		5
6	165	150	142	102	148	140	110	60	145	121	70	68	125	94		6
7	150	142	138	94	142	138	104	55	140	114	63	62	120	86		7
8	130	131	125	87	130	126	96	50	130	106	58	57	112	78		8
9	115	115	116	82	115	116	88	46	115	99	52	52	105	72		9
10	100	101	102	77	102	103	71	43	100	92	49	47	98	67		10
12	82	83	84	69	80	82	70	38	82	81	44	43	86	58.5		12
14		59	60	62	62	64	62	34	62	65	38.5	38	66	51.5		14
16		50	52	53	50	51	53	30	51	53	34.5	34	54	46		16
18					40	43	45	28	42	45	31.5	31	44	41.5		18
20					34	36	38	25.5	35	38	28.6	28	38	37.8		20
22					28	31	33	23.5	30	32	26	26	32	33		22
24									26	28	24.3	24	28	30		24
26									22	25	22.5	22	24	27		26
28													22	23.5		28
30													19	20.5		30
32													17.6	18.5		32
Telescoping mode	I	1	1	1	1	2	1	1	1	2	1	1	1	2	1	I
	II	1	2	1	1	2	2	1	1	2	2	1	1	2	3	II
	III	1	1	2	1	1	2	2	1	2	2	3	2	2	2	III
	IV	1	1	1	2	1	1	2	3	1	2	2	3	2	2	IV
Reeving	22	18		14	16	16	14	8	14	14	10	8	12	10	Reeving	

Table 9-2 Main boom lifting table

Unit:T

Radius/boom length (m)	Main boom 15.4 m – 60 m, outrigger fully extended, over full range, without superlift, 80 T counterweight														Radius/boom length (m)		
	35.4		40.4				45.4				50.4		55.4	60			
5	80	68														5	
6	75	61														6	
7	68	55	92	90	76	60										7	
8	64	51	86	82	70	56	72	70	62	60						8	
9	58	46	79	76	65	52	69	66	58.5	56	58	55				9	
10	55	43	74	72	60	48	65	61	54.5	53	56	54	48			10	
12	51	37	66	64	52	42	59	54.5	48	47	52	48	46	38		12	
14	46	33	60	57	46	38	54	48.5	42.5	42	47	43	42	38		14	
16	39	29.5	54	51	41	34	47	43	38.5	38	43	39	40	36		16	
18	35	26.7	46	45	37	31	43	39.5	35	34.5	39	36	36	34		18	
20	32	24.2	38	39	34	28	36.5	36	32	31.5	36	33	33	32		20	
22	30	22.2	32.5	34	31	25.5	31.5	32.5	29.5	29	32	30.5	30	29		22	
24	28	20.5	28	29	28.5	23.5	27.4	28.5	27	26.5	28	28	27	27		24	
26	26	19	24.5	25	26.5	21.5	24	25	25	24.5	24	25.5	23.5	24.5		26	
28	24	17.6	21.5	22.4	24	20.2	21.1	22.2	23	23	21.7	23	21	21.8		28	
30	22	16.5	19	20	21.7	18.9	18.6	19.8	20.6	21.2	19.3	20.5	18.8	19.5		30	
32	20	15.5	16.5	17	19.5	17.7	16.6	17.6	18.5	19.2	17.2	18.5	18	17.4		32	
34			15.3	16	17.5	16.6	14.8	15.8	16.7	17.4	15.4	16.5	16	15.7		34	
36			13.5	14.4	16	15.5	13.4	14.4	15.2	15.8	13.9	15	14.5	14.2		36	
38							12	13	13.8	14.4	12.5	13.5	13.2	12.8		38	
40							10.8	11.8	12.5	13.2	11.3	12.5	12	11.7		40	
42											10.2	11.4	10.8	10.5		42	
44											9	10.4	9.9	9.5		44	
46											7.8	8.8	9	8.6		46	
48													7.8	7.8		48	
50													6.5	7		50	
52														6.5		52	
54														6		54	
56														5.4		56	
Telescoping mode	I	1	1	3	2	1	1	3	2	2	1	3	2	3	4	I	Telescoping mode
	II	2	1	2	3	3	2	3	3	2	3	3	3	3	4	II	
	III	2	3	2	2	3	3	2	3	3	3	3	3	3	4	III	
	IV	3	3	2	2	2	3	2	2	3	3	2	3	3	4	IV	
Reevinq	8	8	10	10	8	8	8	8	8	6	6	6	6	6	4	Reevinq	

Table 10-1 Main boom lifting table

Unit:T

Radius/boom length (m)	Main boom 15.4 m – 60 m, outrigger fully extended, over full range, without superlift, 60 T counterweight														Radius/boom length (m)	
	15.4	20.4			25.4				30.4				35.4			
3.5	190	170	160	125												3.5
4	180	165	160	120	160	158	120	76								4
4.5	175	160	155	116	158	155	118	72	140	135	82	78				4.5
5	170	155	150	110	155	152	115	67	135	130	78	75	125	104		5
6	152	150	140	102	148	140	110	60	130	121	70	68	125	94		6
7	135	136	130	94	135	134	104	55	125	114	63	62	120	86		7
8	115	116	117	87	115	116	96	50	115	106	58	57	112	78		8
9	102	103	104	82	103	104	88	46	104	99	52	52	105	72		9
10	88	89	90	77	86	88	71	43	90	91	49	47	90	67		10
12	64	65	66	67	66	68	70	38	68	70	44	43	69	58.5		12
14		50	51	52	50.8	53	54.5	34	52	54.5	38.5	38	53.5	51.5		14
16		40	41	41.5	40.2	42	44	30	41	43.5	34.5	34	42.5	43.5		16
18					32.5	34	36	28	34	36	31.5	31	35	36		18
20					27	29	30	25.5	28	30	28.2	28	29.5	30.5		20
22					22.5	24	26	23.5	24	26	25	26	24	25.5		22
24									20	22	23	24	21.5	22.5		24
26									17.5	19.5	21	22	18.5	19		26
28													16	17		28
30													14.5	15		30
32													12.5	13.2		32
Telescoping mode	I	1	1	1	1	2	1	1	1	2	1	1	1	2	1	I
	II	1	2	1	1	2	2	1	1	2	2	1	1	2	3	II
	III	1	1	2	1	1	2	2	1	2	2	3	2	2	2	III
	IV	1	1	1	2	1	1	2	3	1	2	2	3	2	2	IV
Reeving	22	18		14	16	16	14	8	14	14	10	8	12	10	Reeving	

Table 10-2 Main boom lifting table

Unit:T

Radius/boom length (m)	Main boom 15.4 m – 60 m, outrigger fully extended, over full range, without superlift, 60 T counterweight														Radius/boom length (m)		
	35.4		40.4				45.4				50.4		55.4	60			
5	80	68														5	
6	75	61														6	
7	68	55	92	90	76	60										7	
8	64	51	86	82	70	56	70	68	60	60						8	
9	58	46	79	76	65	52	68	65	57	56	56	52				9	
10	55	43	74	72	60	48	65	61	54	53	54	50	46			10	
12	51	37	66	64	52	42	59	54.5	48	47	52	48	44	36		12	
14	46	33	53	53.5	46	38	53	48.5	42.5	42	47	43	42	36		14	
16	39	29.5	42	43	41	34	42	43	38.5	38	43	39	40	35		16	
18	35	26.7	34.5	35	36	31	34	36	35	34.5	35	36	34	33		18	
20	31.5	24.2	29	29.5	30.5	28	29	30	30.5	31	29.5	31	28.5	29		20	
22	27	22.2	24.5	25	26.5	25.5	24.5	25.5	26.5	27.4	25	26.5	24.5	25		22	
24	23.5	20.5	21	21.5	22.5	23	21	22	23	23.5	21.5	23	21	21.5		24	
26	20.5	19	18	19	20	21	18	19	20	21	19	20	18.5	19		26	
28	18	17.6	16	16.5	17.5	18.5	16	17	18	18.5	16.5	17.5	16	16.5		28	
30	16	16	13.5	14.5	15.5	16.5	14	15	15.5	16	14.5	15.5	14	14.5		30	
32	14	15	12	13	14	15	12	13	14	14.5	12.5	14	13.5	13		32	
34			10.5	11	12	13	10.5	11.5	12.5	13	11	12.5	12	11.5		34	
36			9	10	11	12	9	10	11	12	10	11	10.5	10.5		36	
38							8	9	10	10.5	9	10	9.5	9.4		38	
40							7	8	9	9.5	8	9	8.5	8.4		40	
42											7	8	7.5	7.4		42	
44											6	7	6.5	6.4		44	
46											5	6	5	5.8		46	
48													5.5	5		48	
50													4.5	4.5		50	
52														4		52	
54														3.5		54	
56														3		56	
Telescoping mode	I	1	1	3	2	1	1	3	2	2	1	3	2	3	4	I	Telescoping mode
	II	2	1	2	3	3	2	3	3	2	3	3	3	3	4	II	
	III	2	3	2	2	3	3	2	3	3	3	3	3	3	4	III	
	IV	3	3	2	2	2	3	2	2	2	3	3	2	3	3	4	
Reevinq	8	8	10	10	8	8	8	8	8	6	6	6	6	6	4	Reevinq	

Table 11-1 Main boom lifting table

Unit:T

Radius/boom length (m)	Main boom 15.4 m – 60 m, outrigger fully extended, over full range, without superlift, 40 T counterweight														Radius/boom length (m)	
	15.4	20.4			25.4				30.4				35.4			
3.5	188	170	160	125												3.5
4	178	165	160	120	155	155	120	76								4
4.5	172	160	155	116	152	150	118	72	132	130	82	78				4.5
5	165	155	150	110	148	146	115	67	128	128	78	75	122	104		5
6	145	145	140	102	142	140	110	60	125	121	70	68	120	94		6
7	126	127	128	94	126	125	104	55	122	114	63	62	116	86		7
8	108	110	112	87	108	110	96	50	108	106	58	57	106	78		8
9	89	90	91	82	89	91	88	46	90	93	52	52	92	72		9
10	73	74	75	76.5	73	75	77	43	74	77	49	47	76	67		10
12	51	52	53.5	54	51	53	55	38	53	55	44	43	54	55		12
14		39	40.5	41	38	40	42	34	39	42	38.5	38	41	42		14
16		30	32	32.5	30	31.4	33.5	30	31	33	32.8	33	32	33		16
18					23.5	26	27.5	27.8	25	27	28.2	28.5	26	27		18
20					19.4	21.5	23	23.8	20	22	23.5	24	21	22		20
22					15.8	18	19.5	20	17	19	20	20.5	18	19		22
24									14	16	17	17.5	15	16		24
26									12	14	14.5	15	13	14		26
28													11	12		28
30													9.5	10		30
32													8	9		32
Telescoping mode	I	1	1	1	1	2	1	1	1	2	1	1	1	2	1	I
	II	1	2	1	1	2	2	1	1	2	2	1	1	2	3	II
	III	1	1	2	1	1	2	2	1	2	2	3	2	2	2	III
	IV	1	1	1	2	1	1	2	3	1	2	2	3	2	2	IV
Reeving	22	18		14	16	16	14	8	14	14	10	8	12	10	Reeving	

Table 11-2 Main boom lifting table

Unit:T

Radius/boom length (m)	Main boom 15.4 m – 60 m, outrigger fully extended, over full range, without superlift, 40 T counterweight														Radius/boom length (m)	
	35.4		40.4				45.4				50.4		55.4	60		
5	80	68														5
6	75	61														6
7	68	55	92	90	76	60										7
8	64	51	86	82	70	56	70	68	60	60						8
9	58	46	79	76	65	52	68	65	57	56	54	50				9
10	51	43	74	72	60	48	65	61	54	53	52	48	44			10
12	46	37	53	54	52	42	53	54	48	47	48	46	42	35		12
14	43	33	40	41	42	38	40	42	42.5	42	41	40	40	33		14
16	34	29.5	31	32	34	34	32	33	34	35	32	33	31.5	32		16
18	28	26.7	25	26	27	28	25	27	28	28.5	26	28	25.5	26		18
20	23	23.4	21	22	23	24	21	22	23	24	22	24	21.5	21		20
22	20	21	17	18	19	20	17.5	19	19.5	20	18	20	18	18.2		22
24	17	18	14	15	16	17	15	16	17	17.5	15	17	15	15.5		24
26	15	15.5	12	13	14	15	12	13	14	15	13	14.5	13	12.5		26
28	13	13.5	10	11	12	13	10.5	12	12.5	13	11	12.5	11	11.5		28
30	11	12	9	9.5	11	12	9	10	11	11.5	9.5	11	10	10.3		30
32	10	10.5	7.5	8	9	10	8	9	9.5	10	8.5	9.5	9	9		32
34			6.5	7	8	9	6.5	7.5	8.2	9	7	8	7.5	7.8		34
36			5.2	6	7	8	5.5	6.5	7.2	8	6	7	6.5	6.8		36
38							4.5	5.5	6.2	7	5	6	5.6	5.8		38
40							4	4.8	5.2	6	4	5.2	5	5.1		40
42												3.5	4.5	4.2	4.4	42
44												3	4	3.5	3.8	44
46												2	3	3	3.2	46
48														2.4	2.5	48
50														2	2.2	50
52															1.5	52
Telescoping mode	I	1	1	3	2	1	1	3	2	2	1	3	2	3	4	I
	II	2	1	2	3	3	2	3	3	2	3	3	3	3	4	II
	III	2	3	2	2	3	3	2	3	3	3	3	3	3	4	III
	IV	3	3	2	2	2	3	2	2	3	3	2	3	3	4	IV
Reeving	8	8	10	10	8	8	8	8	6	6	6	6	6	4		Reeving

Table 12-1 Main boom lifting table

Unit:T

Radius/boom length (m)	Main boom 15.4 m – 60 m, outrigger fully extended, over full range, without superlift, 28 T counterweight														Radius/boom length (m)	
	15.4	20.4			25.4				30.4				35.4			
3.5	170	165	160	125												3.5
4	165	160	158	120	150	150	120	76								4
4.5	160	155	152	116	145	144	118	72	126	126	82	78				4.5
5	150	150	148	110	140	138	115	67	122	122	78	75	110	104		5
6	132	133	134	102	132	130	110	60	118	118	70	68	106	94		6
7	114	115	115	94	114	115	104	55	115	114	63	62	100	86		7
8	92	93	95	87	94	96	96	50	95	96	58	57	94	78		8
9	73	74	75	76	75	76	78	46	76	78	52	52	77	72		9
10	60	61	62	63	60	62	65	43	62	65	49	47	64	65		10
12	41	42	42	45	41	44	45	38	42	46	44	43	44	46		12
14		31	32	34	30	33	34	34	32	34	37	38	33	34		14
16		23	25	26	24	25.5	27	28	24	27	28	28.5	26	27		16
18					19	20.4	22	23	19	22	22.5	23.5	21	22		18
20					15	16	18	19	16	18	19	19.5	17	18		20
22					12	13.5	15	16	13	15	16	16.5	14	15		22
24									10	12	13	14	11	12		24
26									8.5	10	11	12	10	10.5		26
28													8	9		28
30													7	7.6		30
32													5.5	6.2		32
Telescoping mode	I	1	1	1	1	2	1	1	1	2	1	1	1	2	1	I
	II	1	2	1	1	2	2	1	1	2	2	1	1	2	3	II
	III	1	1	2	1	1	2	2	1	2	2	3	2	2	2	III
	IV	1	1	1	2	1	1	2	3	1	2	2	3	2	2	IV
Reeving	22	18		14	16	16	14	8	14	14	10	8	12	10	Reeving	

Table 12-2 Main boom lifting table

Unit:T

Radius/boom length (m)	Main boom 15.4 m – 60 m, outrigger fully extended, over full range, without superlift, 28 T counterweight														Radius/boom length (m)	
	35.4		40.4				45.4				50.4		55.4	60		
5	80	68														5
6	75	61														6
7	68	55	90	88	76	60										7
8	64	51	83	80	70	56	70	68	60	60						8
9	58	46	74	75	65	52	68	65	57	58	54	50				9
10	51	43	62	62.5	60	48	61	61	54	54	50	48	42			10
12	46	37	44	45	46	42	44	45	45	45	42	44	40	32		12
14	35	33	32	33	35	36	33	34	35	36	34	34.5	32	30		14
16	28	28.7	25	26	27	28	25.5	27	27.5	28.5	26	27.5	25	26		16
18	23	23.5	20	21	22	23	20.2	21	22	23	21	22	20	21		18
20	19	20	16	17	18	19	16.2	17.5	18.2	19	17	18	17	17		20
22	16	17	13	14	15	16	13.2	14.5	15.2	16	14	15	14	14		22
24	13	14	11	12	13	14	11.2	12	13	14	11.5	13	12	12		24
26	11.2	12.5	9	10	11	12	9.2	10	11	12	9.8	11	10	10		26
28	10	10.5	7.6	8.5	9.5	10.5	7.6	9	9.5	10	8	9.4	8.2	8.5		28
30	8.5	9.5	6.2	7	8	9	6.3	7	8	9	7	8	7	7.2		30
32	7.2	8	4	6	7	8	5	6	7	7.6	5.6	6.8	6	6		32
34			4	5	6	7	4	5	6	6.5	4.5	5.6	5	5		34
36			3	4	5	6	3	4	5	5.5	3.6	4.8	4.2	4		36
38							2.2	3	4	5	3	4	3.5	3.2		38
40							1.8	2.5	3	4	2.5	3.2	3	2.6		40
42											1.5	2.6	2.2	2		42
44											1	2	1.8	1.7		44
46												1.5	1.5	1.2		46
Telescoping mode	I	1	1	3	2	1	1	3	2	2	1	3	2	3	4	I
	II	2	1	2	3	3	2	3	3	2	3	3	3	3	4	II
	III	2	3	2	2	3	3	2	3	3	3	3	3	3	4	III
	IV	3	3	2	2	2	3	2	2	3	3	2	3	3	4	IV
Reeving	8	8	10	10	8	8	8	8	6	6	6	6	6	4		Reeving

Table 13-1 Main boom lifting table

Unit:T

Radius/boom length (m)	Main boom 15.4 m – 60 m, outrigger fully extended, over full range, without superlift, 0 T counterweight														Radius/boom length (m)	
	15.4	20.4			25.4				30.4				35.4			
3.5	150	136	125	100												3.5
4	140	125	115	90	92	93	94	76								4
4.5	120	116	106	80	90	92	93	72	80	81	82	62				4.5
5	100	104	100	76	84	86	88	67	70	71	72	58	57	58		5
6	79	75	77	70	70	72	72	60	66	67	68	53	50	51		6
7	50	49	51	52	46	49	51	55	45	48	44	45	41	42		7
8	34	35.5	37	38	34	36	38	37	34	36	36	36	34	35		8
9	26	26.4	28	28	26	27.5	29	33	26	28.5	29	30	27	28		9
10	20	20.5	21	22	20	22	23	25	21	22.5	23	24	22	22.8		10
12	16	13.4	14.3	15	13	14.4	15.6	16	13.5	15.5	16	16.5	14.7	15.4		12
14	13	9	10	11	7.5	10	11.3	11.5	9.5	11	11	12	10.5	11		14
16		6.6	7.3	8	5.5	7.4	8.4	8.5	6.7	8	8.8	9	7.7	8.3		16
18		4.6	5.3	6	4	5.5	6.5	6	4.5	6	6.8	7	5.7	6.3		18
20					2.5	4	5	4.5	3.4	4.5	5.3	5.5	4	4.5		20
22						2.5	3.5	3	2.3	3.5	4	4.5	3	3.5		22
24										2.2	3	3.5	2.5	2.8		24
26											2	2.5		1.8		26
Telescoping mode	I	1	1	1	1	2	1	1	1	2	1	1	1	2	1	I
	II	1	2	1	1	2	2	1	1	2	2	1	1	2	3	II
	III	1	1	2	1	1	2	2	1	2	2	3	2	2	2	III
	IV	1	1	1	2	1	1	2	3	1	2	2	3	2	2	IV
Reeving	22	18		14	16	16	14	8	14	14	10	8	12	10	Reeving	

Table 13-2 Main boom lifting table

Unit:T

Radius/boom length (m)	Main boom 15.4 m – 60 m, outrigger fully extended, over full range, without superlift, 0 T counterweight														Radius/boom length (m)	
	35.4		40.4				45.4				50.4		55.4	60		
5	46	40														5
6	42	36														6
7	38	33	39	40	41	37										7
8	33	30	32	33	34	35	32	33	34	34.5						8
9	29	29	25	26	27	28	25	26	27	28	23	25				9
10	23.5	24	20	21	22	23	20.5	21.5	22.5	23	20	22	18			10
12	16	16.5	14	14.8	15.8	16.5	14	15.2	16	16.5	14.5	15.8	14.8	15		12
14	11.5	12	9.9	10.7	11.5	12	10	11	11.5	12	10.4	11.5	11	11.1		14
16	9	9.5	7	7.8	8.6	9.2	7	8	8.6	9	7.5	8.6	8.2	8.3		16
18	7	7.4	5	5.8	6.6	7	5	6	6.6	7	5.5	6.6	6	6.2		18
20	5	5.5	3.5	4.2	5	5.5	3.5	5	5.1	5.5	4	5	4.6	4.7		20
22	4	4.5	2.5	3	3.5	4.5	2.5	3.3	4	4.4	2.6	3.6	3.4	3.5		22
24	3.2	3.5	1.5	2	2.5	3.2	1.5	2.5	3	3.5	2	2.6	2.2	2.5		24
26	2.2	2.5			2	2.5		1.5	2	2.5	1.2	1.9	1.7	1.8		26
28		1.8				1.8				1.8						28
Telescoping mode	I	1	1	3	2	1	1	3	2	2	1	3	2	3	4	I
	II	2	1	2	3	3	2	3	3	2	3	3	3	3	4	II
	III	2	3	2	2	3	3	2	3	3	3	3	3	3	4	III
	IV	3	3	2	2	2	3	2	2	3	3	2	3	3	4	IV
Reeving	8	8	10	10	8	8	8	8	6	6	6	6	6	4		Reeving

Table 14-1 Superlift lifting table

Unit:T

Radius/boom length (m)	Main boom 15.4 m – 60 m, outrigger fully extended, over full range, with superlift, 140 T counterweight										Radius/boom length (m)	
	30.4				35.4				40.4			
5	150	145	130	120							5	
6	150	144	130	120	140	130	115	100			6	
7	145	142	125	114	135	125	110	98	130	120	7	
8	138	132	115	105	130	118	104	95	120	114	8	
9	128	122	106	101	125	110	99	92	114	108	9	
10	120	115	98	94	118	102	93	86	106	100	10	
12	99	98	88	84	98	92	82.5	76	94	90	12	
14	87	88	78	75	88	85	75	68	87	84	14	
16	74	75	68	66	76	73	67	61	76	76	16	
18	64	65	62	60	66	66.5	62	55	67	66	18	
20	56	57	56	54	58	58.2	57.5	50	58	58.5	20	
22	49	49.5	50	49	51	51	52	45.9	51	50	22	
24	44	44.5	44.8	45	45	45.5	46	42.5	44	45	24	
26	37	38	39	38	40	40.5	42	40	40	40	26	
28					36	36.5	38.3	37.4	36	36.5	28	
30					32	33	34	34.5	32.5	33	30	
32					25	25.5	26	27	29	30	32	
34									26	27	34	
36									22	23	36	
Telescoping mode	I	2	1	1	1	2	1	1	1	3	2	I
	II	2	2	1	1	2	3	2	1	2	3	II
	III	2	2	3	2	2	2	2	3	2	2	III
	IV	1	2	2	3	2	2	3	3	2	2	IV
Reeving	16	14	14	14	14	14	12	12	12	12	Reeving	

Table 14-2 Superlift lifting table

Unit:T

Radius/ boom length (m)	Main boom 15.4 m – 60 m, outrigger fully extended, over full range, with superlift, 140 T counterweight										Radius/boom length (m)		
	40.4		45.4				50.4		55.4	60			
7	102										7		
8	100	90									8		
9	97	88	104	96	88	82					9		
10	92	85.5	98	91	82	80	87	78			10		
12	85	76.5	92	82	76	72	78	72	69	64	12		
14	76	68	82.5	75	67	66	73	65	64	59	14		
16	69	63	74	69	64	61	67	59	58	54	16		
18	62	60	67	63	58	57	61	54.5	54	50	18		
20	56	52.5	58	58.5	53.5	53	55.8	50.2	50.7	48	20		
22	52	46.5	52	52.5	49	48.5	51	47	47	44	22		
24	46	43	45	46	45	45	45.4	43.4	43	41	24		
26	41.5	40.5	41	42	42	42.5	40.5	40.5	40	38	26		
28	37	38	37	37.5	38.5	39	36.5	37.7	37.5	36	28		
30	34	34.5	33	34	34.5	35	33	34.2	34.5	34	30		
32	30.6	31	30	31	31.5	32	30	31.1	32.2	32	32		
34	28	29	27.5	28	29	30	27.5	28.6	28.5	28.1	34		
36	23	25	24.6	26	27	27.3	25	26.4	25.5	25.8	36		
38			23	23.5	24	25	23	24.2	23.8	24	38		
40			20	21	21.5	22	20.4	22.4	22	22.5	40		
42							19	20.5	20.7	21	42		
44							17.5	18	19	19.4	44		
46							14.5	15	17.6	18	46		
48									16.2	16.5	48		
50									14	15.5	50		
52										14.5	52		
54										12.5	54		
56										9.5	56		
Telescoping mode	I	1	1	3	2	2	1	3	2	3	4	I	Telescoping mode
	II	3	2	3	3	2	3	3	3	3	4	II	
	III	3	3	2	3	3	3	3	3	3	4	III	
	IV	2	3	2	2	3	3	2	3	3	4	IV	
Reeving	12	10	10	10	10	10	10	10	8	8	6	Reeving	

Table 15-1 Superlift lifting table

Unit:T

Radius/ boom length (m)	Main boom 15.4 m – 60 m, outrigger fully extended, over full range, with superlift, 120 T counterweight										Radius/boom length (m)	
	30.4				35.4				40.4			
5	150	145	130	120							5	
6	150	140	130	120	140	130	115	100			6	
7	145	137	125	114	135	125	110	98	130	120	7	
8	138	129	115	105	130	118	104	95	120	114	8	
9	125	122	106	101	125	110	99	92	114	108	9	
10	110	115	98	94	118	102	93	86	106	100	10	
12	93	92.4	88	84	91.7	92	82.5	76	94	90	12	
14	82	83	78	75	83.6	84.2	75	68	83.5	84	14	
16	70	71.8	68	66	71.8	72.2	67	61	71.5	72.4	16	
18	60	61	62	60	61.9	62.7	63.2	55	61.1	61.9	18	
20	51.7	54	54.7	55.2	53	53.9	55	50	52.3	53.1	20	
22	44.9	47.2	47.9	48.4	46.2	27.1	48.1	45.9	45.4	46.2	22	
24	39.2	41.5	42.4	42.7	40.7	41.6	42.5	43.2	40	40.7	24	
26	34.4	36.5	37.2	37.8	36.2	37.1	38	38.6	35.5	36.2	26	
28					32.1	33	34	34.6	31.8	32.5	28	
30					28.7	29.6	30.5	31.1	28.4	29.1	30	
32					23	23.8	24.7	25.2	25.5	26.2	32	
34									23	23.7	34	
36									20.7	21.4	36	
Telescoping mode	I	2	1	1	1	2	1	1	1	3	2	I
	II	2	2	1	1	2	3	2	1	2	3	II
	III	2	2	3	2	2	2	2	3	2	2	III
	IV	1	2	2	3	2	2	3	3	2	2	IV
Reeving	16	14	14	14	14	14	12	12	12	12	Reeving	

Table 15-2 Superlift lifting table

Unit:T

Radius/ boom length (m)	Main boom 15.4 m – 60 m, outrigger fully extended, over full range, with superlift, 120 T counterweight										Radius/boom length (m)		
	40.4		45.4				50.4		55.4	60			
7	102										7		
8	100	90									8		
9	97	88	104	96	88	82					9		
10	92	85.5	98	91	82	80	87	78			10		
12	85	76.5	92	82	76	72	78	72	69	64	12		
14	76	68	82.5	75	67	66	73	65	64	59	14		
16	69	63	71.4	69	64	61	67	59	58	54	16		
18	63	60	59.8	61	58	57	60.5	54.5	54	50	18		
20	54.4	52.5	51.9	52.4	53.5	53	51.9	50.2	50.7	48	20		
22	47.5	46.5	46.1	46.2	48.1	48.8	45.1	46.4	45.9	44	22		
24	42	42.9	40.6	40.8	42.5	43.2	39.7	41.4	40.5	40.6	24		
26	37.5	38.4	36	37.1	37.9	38.6	35.3	36.6	36	36.1	26		
28	33.7	34.5	32.2	33.4	34.1	34.8	31.6	32.9	32.3	32.5	28		
30	30.4	31.3	29	30.1	30.9	31.5	28.5	29.8	29.2	29.3	30		
32	27.4	28.4	26.2	27.3	28.1	28.8	25.8	27	26.5	26.6	32		
34	24.9	25.8	23.7	24.7	25.5	26.1	23.5	24.7	24.1	24.2	34		
36	22.6	23.5	21.4	22.4	23.2	23.9	21.3	22.6	22.1	22.2	36		
38			19.4	20.5	21.1	21.9	19.5	20.7	20.3	20.4	38		
40			17.6	18.6	19.4	20.1	17.8	19	18.5	18.8	40		
42							16.2	17.4	17	17.3	42		
44							14.8	16.4	15.6	15.9	44		
46							13.5	14.8	14.5	14.6	46		
48									13.3	13.5	48		
50									12.1	12.5	50		
52										11.5	52		
54										10.6	54		
56										9	56		
Telescoping mode	I	1	1	3	2	2	1	3	2	3	4	I	Telescoping mode
	II	3	2	3	3	2	3	3	3	3	4	II	
	III	3	3	2	3	3	3	3	3	3	4	III	
	IV	2	3	2	2	3	3	2	3	3	4	IV	
Reeving	12	10	10	10	10	10	10	8	8	6	Reeving		

Table 16-1 Superlift lifting table

Unit:T

Radius/ boom length (m)	Main boom 15.4 m – 60 m, outrigger fully extended, over full range, with superlift, 100 T counterweight										Radius/boom length (m)	
	30.4				35.4				40.4			
5	150	145	130	120							5	
6	145	140	130	120	135	130	115	100			6	
7	140	135	125	114	132	125	110	98	130	120	7	
8	130	128	115	105	126	118	104	95	120	114	8	
9	115	112	106	101	115	110	99	92	114	108	9	
10	107	99	98	94	102	102	93	86	101	100	10	
12	90	93	86	84	92	92	82.5	76	93	90	12	
14	76.5	78	75.7	75	78.2	79	75	68	78.2	79.2	14	
16	64.5	65.5	66	67.4	66	67	67	61	66	67	16	
18	55.2	56	57	58.5	56.7	57.6	58.8	55	55.8	56.7	18	
20	47.1	49.5	50.5	50.8	48.4	49.4	50.5	51.2	47.7	48.5	20	
22	40.5	42.9	43.6	44.3	42	43	44.1	44.7	41.2	42	22	
24	34.9	37.3	38	38.6	36.8	37.7	38.9	39.6	36.2	37	24	
26	30.4	32.7	33.4	33.9	32.3	33.2	34.3	35	31.9	32.8	26	
28					28.5	29.4	30.5	31.1	28.2	29	28	
30					25.3	26.2	27.2	27.9	25	25.8	30	
32					20.7	21.6	22.6	23.1	22.3	23	32	
34									19.9	20.6	34	
36									17.8	18.5	36	
Telescoping mode	I	2	1	1	1	2	1	1	1	3	2	I
	II	2	2	1	1	2	3	2	1	2	3	II
	III	2	2	3	2	2	2	2	3	2	2	III
	IV	1	2	2	3	2	2	3	3	2	2	IV
Reeving	16	14	14	14	14	14	12	12	12	12	Reeving	

Table 16-2 Superlift lifting table

Unit:T

Radius/ boom length (m)	Main boom 15.4 m – 60 m, outrigger fully extended, over full range, with superlift, 100 T counterweight										Radius/boom length (m)		
	40.4		45.4				50.4		55.4	60			
7	102										7		
8	100	90									8		
9	97	88	102	96	88	82					9		
10	92	85.5	98	91	82	80	87	78			10		
12	85	76.5	92	82	76	72	78	72	69	64	12		
14	76	68	79	75	67	66	73	65	64	59	14		
16	68	63	67	68.3	64	61	66	57.8	58	54	16		
18	58.1	59.2	56	57.3	58	57	56.7	54.5	54	50	18		
20	49.9	50.9	47.8	49	50	50.7	48.4	49.9	49.3	48	20		
22	43.4	44.4	41.4	42.6	43.4	44.2	42	43.4	42.8	43	22		
24	38.3	39.2	36.2	37.4	38.3	39	36.8	38.3	37.6	37.7	24		
26	34	35	32.1	33.2	34	34.8	32.6	34	33.4	33.5	26		
28	30.3	31.3	28.5	29.7	30.5	31.3	29.1	30.5	29.8	29.9	28		
30	27	28	25.4	26.6	27.4	28.2	26.1	27.4	26.9	27	30		
32	24.3	25.2	22.6	23.8	24.7	25.4	23.5	24.8	24.3	24.4	32		
34	21.9	22.8	20.3	21.4	22.3	23	21.1	22.4	22	22.2	34		
36	19.8	20.7	18.2	19.3	20.1	20.9	19	20.3	19.9	20.1	36		
38			16.4	17.6	18.4	19	17.2	18.5	18	18.4	38		
40			14.5	15.9	16.7	17.4	14.1	16.8	16.5	16.7	40		
42							12.8	15.4	15	15.2	42		
44							11.5	14.4	13.6	13.9	44		
46							10.4	12.9	12.4	12.7	46		
48									11.4	11.6	48		
50									10.4	10.6	50		
52										9.5	52		
54										8.5	54		
56										7.5	56		
Telescoping mode	I	1	1	3	2	2	1	3	2	3	4	I	Telescoping mode
	II	3	2	3	3	2	3	3	3	3	4	II	
	III	3	3	2	3	3	3	3	3	3	4	III	
	IV	2	3	2	2	3	3	2	3	3	4	IV	
Reeving	12	10	10	10	10	10	10	10	8	8	6	Reeving	

Table 17-1 Superlift lifting table

Unit:T

Radius/ boom length (m)	Main boom 15.4 m – 60 m, outrigger fully extended, over full range, with superlift, 80 T counterweight										Radius/boom length (m)	
	30.4				35.4				40.4			
5	145	142	130	120							5	
6	142	140	130	120	135	130	115	100			6	
7	135	132.3	125	114	130	125	110	98	125	120	7	
8	121	120	115	105	120	118	104	95	115	114	8	
9	104	105	104	101	105	106	99	92	105	108	9	
10	92.4	94.5	96	94	93.8	94.2	93	86	95.8	100	10	
12	82	84.7	85.5	83.3	83.3	84.7	82.5	76	85.7	86.7	12	
14	69.1	71.8	72.7	73.3	70.7	71.8	73	68	69.8	70.7	14	
16	55.9	58.5	59.3	59.9	57.4	58.4	59.6	60.4	56.6	57.5	16	
18	46.6	49	49.8	50.6	47.9	48.9	50	50.7	47.4	47.9	18	
20	39.1	41.6	42.3	46	40.8	41.8	42.9	43.5	40	40.8	20	
22	33.1	35.5	36.2	36.8	35	36	37.1	37.7	34.5	35.2	22	
24	28.2	30.6	31.4	31.9	30.2	31.1	32.3	32.8	29.8	30.6	24	
26	24.3	26.7	27.4	28	26.3	27.2	28.2	28.9	25.9	26.7	26	
28					23	23.9	25	25.6	22.6	23.5	28	
30					20.2	21.1	22.2	22.7	19.9	20.7	30	
32					17.8	18.7	19.8	20.3	17.6	18.4	32	
34									15.5	16.3	34	
36									13.6	14.4	36	
Telescoping mode	I	2	1	1	1	2	1	1	1	3	2	I
	II	2	2	1	1	2	3	2	1	2	3	II
	III	2	2	3	2	2	2	2	3	2	2	III
	IV	1	2	2	3	2	2	3	3	2	2	IV
Reeving	16	14	14	14	14	14	12	12	12	12	Reeving	

Table 17-2 Superlift lifting table

Unit:T

Radius/ boom length (m)	Main boom 15.4 m – 60 m, outrigger fully extended, over full range, with superlift, 80 T counterweight										Radius/boom length (m)		
	40.4		45.4				50.4		55.4	60			
7	102										7		
8	100	90									8		
9	97	88	100	95	85	82					9		
10	92	85.5	95	90	80	80	85	78			10		
12	85	76.5	83	82	76	72	76	72	66	62	12		
14	72.3	68	68.5	69.8	70.8	66	69.3	65	62	58	14		
16	59	60.1	55.5	56.8	57.8	58.5	56.2	57.8	57	54	16		
18	49.4	50.4	46.3	47.4	48.3	49.1	47.8	49.4	48.8	48.9	18		
20	42.2	43.2	39.2	40.5	41.4	42	40.8	42.2	41.6	41.7	20		
22	36.6	37.6	33.8	35	35.8	36.5	35.1	36.6	35.9	36.1	22		
24	32	33	29.4	30.6	31.5	32.1	30.6	32.1	31.5	31.6	24		
26	28.1	29	25.7	27	27.7	28.4	27	28.4	27.8	27.9	26		
28	24.7	25.8	22.6	23.7	24.6	25.2	23.8	25.2	24.7	24.7	28		
30	22	23	19.9	21	21.9	22.5	21.1	22.4	22	22.2	30		
32	19.6	20.5	17.6	18.7	19.5	20.2	18.7	20.1	19.6	19.9	32		
34	17.6	18.5	15.6	16.7	17.5	18.2	16.7	18	17.6	17.8	34		
36	15.7	16.7	13.9	14.9	15.8	16.4	14.9	16.3	15.7	16	36		
38			12.2	13.4	14.1	14.9	13.2	14.6	14.2	14.4	38		
40			10.9	12	12.8	13.4	11.9	13.2	12.8	13	40		
42							10.6	12	11.5	11.7	42		
44							9.4	10.5	10.4	10.6	44		
46							8.4	9.5	9.2	9.4	46		
48									8.2	8.5	48		
50									7.2	7.5	50		
52										6.6	52		
54										5.8	54		
56										5	56		
Telescoping mode	I	1	1	3	2	2	1	3	2	3	4	I	Telescoping mode
	II	3	2	3	3	2	3	3	3	3	4	II	
	III	3	3	2	3	3	3	3	3	3	4	III	
	IV	2	3	2	2	3	3	2	3	3	4	IV	
Reeving	12	10	10	10	10	10	10	10	8	8	6	Reeving	

Table 18-1 Superlift lifting table

Unit:T

Radius/ boom length (m)	Main boom 15.4 m – 60 m, outrigger fully extended, over full range, with superlift, 60 T counterweight										Radius/boom length (m)	
	30.4				35.4				40.4			
5	140	140	130	120							5	
6	130	130	125	116	130	128	115	100			6	
7	120	115	114	110	120	118	110	98	120	116	7	
8	105	105	105	102	104	105	104	95	105	106	8	
9	93	95.9	93.8	95.2	95.2	95.9	96.2	92	94.5	95	9	
10	88	90.4	91.2	88.8	89.6	90.4	90	86	88.8	89.6	10	
12	72	74.8	75.7	76.4	73.6	74.7	71.8	72.6	72.7	73.8	12	
14	55.7	58	59.1	59.9	57.2	58.2	59.5	60.1	56.3	57.2	14	
16	44.8	47.3	48.1	48.7	46.2	47.2	48.3	49	45.4	46.3	16	
18	36.5	39	39.8	40.3	38.3	39.2	40.4	41	37.5	38.3	18	
20	30.1	32.5	33.3	33.8	32	32.9	34.1	34.7	31.6	32.4	20	
22	25.1	27.5	28.3	28.8	27	28	29.1	29.7	26.6	27.5	22	
24	21.2	23.5	24.2	24.8	23	23.9	25.1	25.7	22.7	23.5	24	
26	18	20.3	20.9	21.5	19.8	20.7	21.8	22.4	19.4	20.3	26	
28					17.1	18	19.1	19.6	16.7	17.6	28	
30					14.9	15.7	16.7	17.3	14.5	15.3	30	
32					12.8	13.7	14.7	15.3	12.6	13.3	32	
34									10.9	11.6	34	
36									9.3	10.1	36	
Telescoping mode	I	2	1	1	1	2	1	1	1	3	2	I
	II	2	2	1	1	2	3	2	1	2	3	II
	III	2	2	3	2	2	2	2	3	2	2	III
	IV	1	2	2	3	2	2	3	3	2	2	IV
Reeving	16	14	14	14	14	14	12	12	12	12	Reeving	

Table 18-2 Superlift lifting table

Unit:T

Radius/ boom length (m)	Main boom 15.4 m – 60 m, outrigger fully extended, over full range, with superlift, 60 T counterweight										Radius/boom length (m)		
	40.4		45.4				50.4		55.4	60			
7	102										7		
8	100	90									8		
9	97	88	100	92	85	80					9		
10	92	85.5	90	86	80	78	82	78			10		
12	75.3	76.5	73	74.4	75	72	69	70	64	60	12		
14	58.8	59.9	56.6	57.9	58.9	59.7	57.2	58.9	58.1	53.2	14		
16	47.7	48.7	45.5	46.8	47.7	48.5	46.2	47.7	47	44.5	16		
18	39.8	40.8	37.6	38.9	39.8	40.5	38.3	39.7	39.1	39.2	18		
20	33.8	34.7	31.7	32.9	33.8	34.6	32.3	33.8	33	33.2	20		
22	28.8	29.8	27	28.3	29.1	29.9	27.6	29.1	28.4	28.5	22		
24	24.8	25.7	23	24.3	25.1	25.8	23.9	25.2	24.7	24.8	24		
26	21.6	22.5	19.9	21.1	21.9	22.5	20.6	22	21.5	21.7	26		
28	18.8	19.8	17.2	18.4	19.2	19.8	18	19.3	18.8	19	28		
30	16.6	17.5	14.9	16	16.8	17.6	15.6	16.9	16.5	16.7	30		
32	14.6	15.5	13	14	14.9	15.6	13.7	15	14.5	14.8	32		
34	12.9	13.8	11.3	12.4	13.1	12.9	12	13.3	12.9	13.1	34		
36	11.3	12.2	9.8	10.9	11.7	12.3	10.5	11.8	11.3	11.5	36		
38			8.4	9.5	10.4	11.1	9.1	10.5	10.1	10.3	38		
40			7.2	8.2	9	9.8	8	9.2	8.9	9	40		
42							7	8	7.8	8.1	42		
44							6	7	6.9	7.1	44		
46							5	6	6	6.3	46		
48									5.2	5.3	48		
50									4	4.5	50		
52										4	52		
54										3.2	54		
56										2.5	56		
Telescopic g mode	I	1	1	3	2	2	1	3	2	3	4	I	Telescopic g mode
	II	3	2	3	3	2	3	3	3	3	4	II	
	III	3	3	2	3	3	3	3	3	3	4	III	
	IV	2	3	2	2	3	3	2	3	3	4	IV	
Reeving	12	10	10	10	10	10	10	8	8	6	Reeving		

3 Components

3.1 Main boom

5-section telescopic boom made of imported high-tensile steel;

Optimal oviform boom profile of particular tensional rigidity, outstanding local stability and for the super lifting capacities;

All boom sections can be attached during driving.

3.3 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;

Telescoping procedure is automatically or manually controllable by convenient operator guide on the monitor.

3.4 Y-shaped guying system

The self-assembled and dismantled Y-shaped guying system can tension the boom via stay ropes to form a stable Y-frame, thus decreases boom deflection and increases lifting capacity with long and intermediate booms for 10% - 300%.

3.5 Hoist gear

The reducer, drum, brake and motor integrated hoist gear is of high quality and is compact in structure;

A special type of sheave groove ensures optimum spooling behavior and perfect rope arrangement during multiple-layer spooling, thus providing prolonged rope service life;

Imported 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.

3.6 Luffing gear

Two hydraulic cylinders, providing the boom with smooth luffing movements from -0.4° to 82°

3.7 Slewing gear

Two slewing gears, consisting of hydraulic motor and planetary reducer

Slewing speed: 0 - 1.0 rpm

3.8 Slewing table

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

3.9 Operator's cab

Operator's cab in steel construction, with luxurious internal paneling, sound and heat insulating double-layer vacuum glass;

Interior of modern design for convenient and comfortable operation;

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;

Outside fixed platform and guard rail are arranged near the cab door. The cab can be swiveled to the rear and is tiltable backwards to improve operator's field of vision;

It is equipped with electronic control air conditioning and cab heater.

3.10 Engine

6-cylinder in-line diesel, manufactured by Benz, model OM926LA, turbo-charged, intercooled (water – air)

Performance: 240 KW at 2200 rpm

Maximum torque: 1300 Nm at 1200 – 1600 rpm

Powerful and reliable crane drive;

Noise absorption and low emissions (exhaust emissions according to National Stage III Emission Standard), safe and environment-friendly;

Via the CAN data bus technique, the electrical system ensures the output power of engine at the most suitable value and prevents engine from being shutdown due to overload, thus realizing low energy consumption.

3.11 Counterweight and counterweight handler

140 t total counterweight (including the counterweight carrier)

Counterweight combinations include 140 t, 120 t, 100 t, 80 t, 60 t, 40 t, 28 t and 0 t.

Counterweight plates can be assembled and disassembled by the counterweight handler bolted on the counterweight frame at the tail of slewing table;

Dismantle the counterweight plates and counterweight frame onto the low loader for transportation.

3.12 Outriggers

Support control units with inclinometers (electronic display of inclination), fully automatic leveling of the crane by push buttons during the supporting procedure;

Support forces detection system with indicators on the chassis and on the load moment limiter monitor in the operator's cab.

Several telescoping combinations are suitable for various worksite requirements.

3.13 Chassis

6-axle special purpose chassis for all terrain crane

Tire size: 445/95R25

Hydro-pneumatic suspension

4 axles driven

Variable steering concept with electronic control "All-wheel steering"

Powerful Benz engine, exhaust emissions according to National Stage V Emission Standard

3.14 Hooks

The maximum lifting capacities in various reevings: 220 t, 130 t, 80 t, 50 t, 12 t (1 reeving)

Hook blocks (80 t above) with ramshorn hooks

3.15 Hood

In frame-type structure of high functionality and convincing design

3.16 Central lubricating system

All the lubricating points are automatically supplied with the correct grease quantity for prolonged crane service life and easy maintenance.

3.17 Monitoring system

Field-proven Hirschmann load moment limiter in high precision and for enhanced safety and reliability;

Via the CAN data bus system, support forces and chassis frame lateral inclination with indicators on the chassis and on the load moment limiter monitor in the operator's cab for enhanced safety;

Field-proven remote controller realizes full range operation. Most of the superstructure movements are controllable by the remote controller. Convenient interactive functions permit the display of safety information, e.g. load moment, hook height, engine fault and warning signals "Main / auxiliary winch approaching upper / lower limit" etc. on the load moment limiter monitor during crane operation, thus to ensure safe and operator-friendly operation.

4 Specifications, chassis

4.1 发动机

型号 : OM502LA.E3B/3

型式 : 八缸水冷、V型、四冲程增压中冷柴油机

气缸直径 : 130 mm

活塞行程 : 150 mm

排量 : 15.93 L

额定功率/转速 : 405kW/1800r/min

最大输出扭矩/转速 : 2600N.m/1300r/min

曲轴旋转方向（从前端看）：顺时针

燃料：柴油

排放限值：GB3847-2005、GB17691-2005(第5阶段)

4.2 变速器及操纵

本机采用德国ZF公司ZF 16AS2630变速器。有16个前进档，2个倒档。该变速器为机械自动变速器。

4.3 分动箱

采用德国Kessler公司2档分动箱,配装应急转向泵。

4.4 传动轴

采用开式传动轴布置，带端面齿的国际标准法兰盘，安装方便、牢固；在2桥和4桥上采用过桥传动轴，不再有带中间支撑的传动轴，传动轴夹角小，耐用、可靠。

4.5 车桥

选用13吨级中联车桥，全桥转向，驱动型式12×8，其中一、三、五、六桥为转向驱动桥，二、四桥为转向从动桥。一、三、五、六桥带轮间差速器锁止装置，第三桥带轴间差速器锁止装置，第五桥带脱开驱动装置，可操纵控制脱开第六桥驱动。采用盘式制动器。

4.6 车轮及轮胎

采用445/95 R25轮胎为基本配置，轮胎无内胎。

轮胎型号: 445/95 R25

充气压力: 0.9MPa（米其林、普利斯通）/1.0MPa（泰凯英）

轮胎螺栓拧紧力矩: 650 N.m ~ 700N.m

4.7 转向系统

采用全轮多模式转向，有六种转向模式。机械与电液控制转向，单油道方向机，单桥双缸助力，并在各电控转向桥上设置中位锁定油缸，用于增强转向系统的回正能力。

一、二桥采用机械控制转向，三至六桥采用电液控制转向。

转向时，中央处理器依据驾驶员选择的转向模式和随方向盘转动的第一桥转角，精确控制三至六桥的转向阀阀芯的开度，使得各桥转向助力缸能带动转向桥朝目前转角转动，并在车辆转向过程中，适时监控三至六桥的实际转角，并适当调整转向阀的工作状态，确保各桥转至设定位置，实现车辆转向操作。

带应急转向系统，行驶时，当主转向油泵不能工作时，安装在分动箱前端的应急泵给转向液压系统提供动力。

3、4、5、6 桥各装一个中位锁定缸,增强转向系统的回正能力。

4.8 悬架装置

油气悬挂，轴荷分组平衡，悬挂高度可调整，具有悬挂刚性锁定重载行驶功能。系统具有整车有调平、轴荷分组平衡、柔性支撑，刚性闭锁、整车升降、单侧升降等功能，打支腿后轮胎可升降。悬挂控制阀油路中设有调速阀，实现各组悬挂油缸升降同步。

4.9 制动系统

行车制动： 双回路气制动，作用在 12 个盘式制动器上。

驻车 and 紧急制动： 弹簧制动，作用在 10 个盘式制动器上。

辅助制动： 发动机气缸压气制动、废气制动、电涡流缓速制动。

双回路制动系统，各桥的制动器均采用盘式制动器，一桥每个盘式制动器装两个单膜片制动气室。其余桥每个盘式制动器装一个双腔弹簧制动气室。驻车制动兼做紧急制动，以二至六桥上的弹簧气室内的强力弹簧作为动力源作用在相应的制动器上。辅助制动用于下长坡缓速制动，以减少盘式制动器的磨损，另外可用于行车制动有故障不能用时时的制动。

制动系统装有 ABS。

4.10 电气系统

数据 CAN 总线联接，驾驶室采用大屏幕、多界面、多功能组合电子仪表屏，人机交互式界面，触摸式屏幕。整机匹配 28V、100A 发电机，装配有可视倒车装置、声光报警，可进行车辆故障诊断、显示、存储。

4.11 驾驶室

低置式全宽 ZTC 系列新驾驶室，全金属焊接结构，软塑内饰，驾驶室整体外形具有刚性线型风格，外形美观，操纵方便，乘坐舒适，视野开阔，内部空间大。方向盘可调整，带风窗洗涤装置，左右两侧门窗为移窗，安装大型反光镜。配有豪华仪表工作台，工作台上安电子仪表、指示灯、控制开关、点烟器、DVD 机等设备，安装有可调节的暖风除霜装置与单冷空调装置，驾驶室内装有倒车可视装置。电子仪表是自行开发具有多种功能的整体仪表，有多种界面，人机交互式界面，触摸式屏幕，除正常行驶仪表显示外，还能显示车辆转向状况，切换界面可进行转向与油气悬架设定与修改调节。三个高靠背带扶手座椅，各座椅均配有安全

带。主驾驶员座椅采用空气悬架座椅，高度自动调节，高档舒适。方向盘高度和角度可调节。

Appendix
Table of main purchased parts

Ser. No.	Part	Description	Manufacturer
1	Power equipment	Engine, superstructure	Benz (Germany)
		Engine, chassis	
2	Hydraulic system	Closed hydraulic pump	Germany Linde
		Main valve	Germany Bucher
3	Operating system	Joysticks	U. K.
4	Load moment limiter		Hirschmann
5	Main hoist gear	Reducer	ZOLLERN (Germany)
		Motor	Rexroth (Germany)
		Wire rope assy.	Pfeifer (Germany)
6	Auxiliary hoist gear	Reducer	ZOLLERN (Germany)
		Motor	Rexroth (Germany)
		Wire rope assy.	Pfeifer (Germany)
7	Slewing gear	Reducer	ZOLLERN (Germany)
		Motor	Rexroth (Germany)
8	Driving mechanism	Axle	KESSLER (Germany)
		Transmission	ZF Friedrichshafen AG (Germany)
		Transfer case	KESSLER (Germany)
		Tires	Techking

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.