ZOOMLION ZLJ5720JQAY220 ALL TERRAIN CRANE

TECHNICAL SPECIFICATIONS

QAY220V633/27Y

ZOOMLION HEAVY INDUSTRY SCIENCE & TECHNOLOGY CO., LTD.

ZOOMLION QAY220V633 ALL TERRAIN CRANE

TECHNICAL SPECIFICATIONS

QAY220V633/27Y

1 Product characteristics

QAY220 all terrain crane, which makes good use of our several decades' technological crystallization in designing and manufacturing mobile cranes combined with internationally advanced technology, is a high-performance and high-reliability product designed and developed to meet the market demands. This high-tech product, combining mechanical, electrical and hydraulic systems as a whole, has so many advantages, such as good control performance, excellent micro-positioning performance, great lifting capacity and super lifting height, that it is active in various fields. This product can be widely used in chemical industry, mining establishments, oil fields, harbors and building sites, etc., except strong electromagnetic wave areas, to do lifting and hoisting work.

This product is an all terrain crane of full range slewing function, telescopic boom sections and electro-hydraulic proportional controlled systems. The 6-axle (4 axles driven and 5 axles steered) special purpose chassis is manufactured by Zoomlion, which providing wide vision, spacious cab and luxurious equipment.

The latest electro-hydraulic proportional directional control valve with load sensing function, multiple plunger variable pumps and open / closed variable system ensure that each mechanism makes full use of its working capability.

Two joysticks can provide the crane with smooth simultaneous movements among "Spool up / reel off main winch / auxiliary winch", "Derrick", "Slew" and "Telescope", which greatly improves the working efficiency. The joysticks are of the characteristics, such as easy-controlled, flexible, reliable and stepless speed regulated etc.

The safety valves, such as relief valve, balance valve, hydraulic lock and brake valve, etc. in hydraulic system, are against rupture of pipes and hoses.

The complete lighting systems and the safety devices, such as load moment limiter, can ensure your safety during operation and are convenient for night work.

2 Specifications, complete vehicle

2.1 Product model

Model in auto industry: ZLJ5720JQAY220

Model in engineering industry: QAY220V

2.2 Technical data

Item				Value	Remarks
Working performance	Max. rated lifting capacity		kg	220000	
	Max. load moment of basic boom		kN.m	7650	At 9 m radius
	Max. lifting height of main boom		m	62.6	The specifications do not include deflection of main boom and jib.
	Max. lifting height of jib		m	96.2	
Working speeds	Max. hoist rope speed (Main winch)		m/min	124	At 4th layer
	Max. hoist ropes peed (Auxiliary winch)		m/min	70	At 4th layer
	Boom telescoping out time		min	10	Affected by the temperature and engine RPM
	Boom derricking up time		s	≥ 90	
	Slewing speed		r/min	≤ 1.5	
Driving	Max. driving speed		km/h	72	
	Max. gradeability		%	50	
	Min. turning diameter		m	24	
	Min. ground clearance		mm	305	
	Limits for exhaust pollutants and smoke			Conform to related standards	GB3847-2005 GB17691-2005 National stage III
	Oil consumption per hundred kilometers		L	85	
Mass	Deadweight in driving condition		kg	72000	
	Complete vehicle kerb mass		kg	71805	
	Axle load		kg	12000	
Dimensions	Overall dimensions (L × W × H)		mm	16722 × 3000 × 3980	
	Longitudinal distance between outriggers		m	8.8	
	Transversal distance between outriggers		m	8.8	
	Main boom length		m	13.8 - 61	
	Boom angle		°	-0.5 - 82	
	Jib length		m	10.7/18/18.7/26/26.7/34	Variants
	Offset		°	0, 15, 30	
Chassis	Model			ZLJ5720QA	Code: ZLJ5720QAV3.1
	Type			II	
	Engine	Model		OM502LA	
		Rated power	kW/r/min	420	At 1800 r/min
		Max. torque	N.m/r/min	2700	At 1080 r/min
	Manufacturer			ZOOMLION HEAVY INDUSTRY SCIENCE & TECHNOLOGY CO., LTD.	

2.3 Lifting capacity table

Table 1 s Main boom (75 t counterweight, outriggers completely extended, over full range)

Unit: Metric ton

Boom length m / Radius m	13.8	18.1	22.4	26.7	31.0	35.4	39.7	44.0	48.3	52.7	57.1	61
3	220											
3.5	160	145										
4	145	135	130	114								
4.5	135	128	121	113	92							
5	125	120	112	110	92	80						
6	116	110	103	103	92	75	60					
7	106	98	92	92	86	70	55	50				
8	95	88	84	85	79	64	51	46	42			
9	85	79	76	77	73	59	47	43	40	36		
10	75	70	68	68	67	54	44	40.2	37.5	34.3	27	
11	65	62	62	61	61	50	40.5	37.6	35	32.6	27	23
12		55	55	54	54	46	36.5	35	32	30.2	27	23
14		49	49	48	48	42	32.7	31.2	29.5	27.8	25	23
16		42	42	42	42	38.5	29.5	27.7	26.2	25	23	22
18			37.5	36.5	36	35	26.5	24.7	23.6	22.6	21	20.1
20				31.9	31	31.5	24.1	22	21.5	20.6	19.5	18.9
22				27	26.8	28	22	20	19.3	18.7	18	17.1
24					24	25	19.8	18.1	17.6	17.2	16.7	15.9
26					21.6	22.5	18.5	16.5	16	15.8	15.4	14.8
28						20	16.5	15.2	14.6	14.5	14.3	13.8
30						17.9	15.2	14.2	13.5	13.5	13.3	12.8
32							14	13.1	12.4	12.3	12.3	11.9
34							12.9	12.1	11.5	11.3	11.5	11
36							12	11.1	10.6	10.4	10.6	10.2
38								10.2	10	9.8	9.9	9.5
40								9.5	9.2	9.1	9.2	8.9
42									8.6	8.5	8.6	8.3
44									7.9	7.9	8	7.8
46										7.3	7.4	7.3
48										6.9	6.9	6.7
50											6.5	6.3
52											6	5.8
54												5.2
56												4.7

Table 2 Main boom (60 t counterweight, outriggers completely extended, over full range)

Unit: Metric ton

Radius m \ Boom length m	13.8	18.1	22.4	26.7	31.0	35.4	39.7	44.0	48.3	52.7	57.1	61
3	170											
3.5	150	145										
4	139	135	130	114								
4.5	130	126	121	113	92							
5	121	117	112	110	92	80						
6	112	108	103	103	92	75	60					
7	102	97	92	92	86	70	55	50				
8	91	87	84	85	79	64	51	46	42			
9	80	79	76	77	73	59	47	43	40	36		
10	70	70	68	68	67	54	44	40.2	37.5	34.3	27	
11	59	61	62	61	60	50	40.5	37.6	35	32.6	27	23
12		53	54	53	52	46	36.5	35	32	30.2	27	23
14		45	46	44	44	41	32.7	31.2	29.5	27.8	25	23
16		37	37	35.9	36.3	36.1	29.5	27.7	26.2	25	23	22
18			30.4	29.4	30.4	31	26.5	24.7	23.6	22.6	21	20.1
20				24.7	25.5	26.5	24.1	22	21.5	20.6	19.5	18.9
22				20.9	21.8	22.7	21.7	20	19.3	18.7	18	17.1
24					18.8	19.7	19.2	18.1	17.6	17.2	16.7	15.9
26					16.3	17.2	16.7	16.5	16	15.8	15.4	14.8
28						15.1	14.6	14.6	14.6	14.5	14.3	13.8
30						13.5	12.9	12.9	13.2	13.5	13.3	12.8
32							11.4	11.4	11.7	12.1	12.3	11.9
34							10.1	10	10.4	10.8	11.3	11
36							9.1	9	9.3	9.7	10.2	10.2
38								8	8.3	8.7	9.2	9.3
40								7.1	7.4	7.8	8.3	8.4
42									6.6	7.1	7.5	7.6
44									5.9	6.3	6.8	6.9
46										5.7	6.2	6.2
48										5.1	5.6	5.7
50											5	5.1
52											4.5	4.6
54												4.2
56												3.7

Table 3　Main boom (43 t counterweight, outriggers completely extended, over full range)

Unit: Metric ton

Boom length m / Radius m	13.8	18.1	22.4	26.7	31.0	35.4	39.7	44.0	48.3	52.7	57.1	61
3	170											
3.5	150	145										
4	139	135	130	114								
4.5	130	126	121	113	92							
5	121	117	112	110	92	80						
6	112	108	103	103	92	75	60					
7	100	97	92	92	86	70	55	50				
8	89	87	84	85	79	64	51	46	42			
9	78	79	76	76	73	59	47	43	40	36		
10	67	69	67	64	63	54	44	40.2	37.5	34.3	27	
11	55	59	57	54	54	50	40.5	37.6	35	32.6	27	23
12		50	49	47	46	44	36.5	35	32	30.2	27	23
14		39.2	39	37.3	37.5	38	32.7	31.2	29.5	27.8	25	23
16		31.1	31.1	30.1	30.6	31.1	29.5	27.7	26.2	25	23	22
18			25.4	24.5	25.4	26	25.1	24.2	23.6	22.6	21	20.1
20				20.3	21.2	22.2	21.3	21	21	20.6	19.5	18.9
22				17.1	17.9	18.9	18.3	18	18.1	18.4	18	17.1
24					15.4	16.3	15.7	15.6	15.7	16	16.4	15.9
26					13.2	14.1	13.5	13.5	13.7	14	14.5	14.5
28						12.3	11.7	11.7	12	12.4	12.8	12.8
30						10.9	10.3	10.2	10.5	10.9	11.4	11.4
32							9	8.9	9.2	9.6	10.1	10.2
34							7.9	7.8	8.1	8.5	9	9
36							6.9	6.8	7.1	7.5	8	8.1
38								6	6.2	6.6	7.1	7.2
40								5.2	5.5	5.9	6.3	6.4
42									4.8	5.2	5.7	5.7
44									4.2	4.6	5	5.1
46										4	4.5	4.5
48										3.5	4	4
50											3.5	3.6
52											3.1	3.1
54												2.7
56												2.4

Table 4 Main boom (33 t counterweight, outriggers completely extended, over full range)

Unit: Metric ton

Boom length m / Radius m	13.8	18.1	22.4	26.7	31.0	35.4	39.7	44.0	48.3	52.7	57.1	61
3	170											
3.5	150	145										
4	139	135	130	114								
4.5	130	126	121	113	92							
5	121	117	112	110	92	80						
6	112	108	103	103	92	75	60					
7	99	97	92	92	86	70	55	50				
8	88	87	84	81	79	64	51	46	42			
9	74	72	69	65	65	59	47	43	40	36		
10	61	60	58	54	54	54	44	40.2	37.5	34.3	27	
11	50	50	49	46	46	46.9	40.5	37.6	35	32.6	27	23
12		42	42	40	39	40	36.5	35	32	30.2	27	23
14		33.3	33.2	31.5	31.8	32.4	31.1	30.7	29.5	27.8	25	23
16		26.2	26.2	25.2	25.7	26.3	25.3	24.9	24.9	25	23	22
18			21.2	20.3	21.2	21.9	21	20.7	20.7	20.9	21.3	20.1
20				16.7	17.6	18.5	17.7	17.4	17.5	17.8	18.1	18.1
22				13.8	14.7	15.7	15	14.8	14.9	15.2	15.7	15.6
24					12.5	13.4	12.8	12.7	12.8	13.1	13.6	13.6
26					10.6	11.5	10.9	10.8	11.1	11.4	11.9	11.9
28						10	9.3	9.3	9.5	10	10.4	10.4
30						8.6	8	8	8.2	8.7	9.2	9.2
32							6.9	6.9	7.1	7.5	8	8.1
34							6	5.9	6.1	6.5	7	7.1
36							5.1	5	5.3	5.7	6.2	6.2
38								4.3	4.5	4.9	5.4	5.5
40								3.6	3.9	4.3	4.7	4.8
42									3.3	3.7	4.1	4.2
44									2.7	3.1	3.6	3.6
46										2.6	3.1	3.2
48										2.2	2.7	2.7
50											2.2	2.3
52											1.9	1.9
54												1.6
56												1.3

Table 5 Main boom (22 t counterweight, outriggers completely extended, over full range)

Unit: Metric ton

Boom length m / Radius m	13.8	18.1	22.4	26.7	31.0	35.4	39.7	44.0	48.3	52.7	57.1	61
3	170											
3.5	150	145										
4	139	135	130	114								
4.5	130	126	121	113	92							
5	121	117	112	110	92	80						
6	106	105	103	103	92	75	60					
7	90	92	88	87	84	70	55	50				
8	76	75	71	67	66	64	51	46	42			
9	61	59	57	54	53	53	47	43	40	36		
10	50	49	47	45	44	45	43	40.2	37.5	34.3	27	
11	41	41	40	38.1	37.3	38.5	36.9	36.1	35	32.6	27	23
12		34.8	34.7	31.9	31.1	32.5	32.3	31.5	30.8	29.8	27	23
14		26.8	26.7	25.1	25.7	26.2	25.1	24.7	24.7	24.6	24.9	23
16		20.9	20.8	19.8	20.5	21.2	20.2	19.8	19.9	20	20.5	20.4
18			16.6	15.8	16.7	17.4	16.5	16.3	16.3	16.6	17	16.9
20				12.7	13.6	14.5	13.7	13.5	13.6	13.9	14.3	14.3
22				10.3	11.2	12.1	11.5	11.3	11.4	11.8	12.2	12.2
24					9.3	10.2	9.6	9.5	9.7	10	10.4	10.4
26					7.7	8.6	8	7.9	8.2	8.5	9	9
28						7.3	6.7	6.6	6.9	7.3	7.7	7.8
30						6.2	5.6	5.5	5.8	6.2	6.7	6.7
32							4.7	4.6	4.8	5.2	5.7	5.8
34							3.8	3.8	4	4.4	4.9	5
36							3.1	3.1	3.3	3.7	4.2	4.2
38								2.4	2.7	3.1	3.5	3.6
40								1.9	2.1	2.5	3	3
42									1.6	2	2.5	2.5
44									1.2	1.5	2	2.1
46										1.1	1.6	1.6
48											1.2	1.3
50												
52												
54												
56												

Table 6 Main boom (11 t counterweight, outriggers completely extended, over full range)

Unit: Metric ton

Boom length m / Radius m	13.8	18.1	22.4	26.7	31.0	35.4	39.7	44.0	48.3	52.7	57.1	61
3	170											
3.5	150	145										
4	139	135	130	114								
4.5	130	126	121	113	92							
5	121	117	112	110	92	80						
6	101	105	100	97	92	75	60					
7	82	78	74	69	67	66	55	50				
8	61	59	56	53	52	51	49	46	42			
9	48	47	45	42	42	42	40	39	38.3	36		
10	39	38.5	37.2	34.9	35	35.4	33.7	33	32.4	32.5	27	
11	31	32.3	31.2	29.4	29.7	30.1	28.8	28.1	27.8	28	27	23
12		27.6	26.7	24.1	24.5	26.1	24.2	24.3	23.8	24.4	24.4	23
14		20.3	20.2	18.8	19.4	20.1	19.1	18.7	18.7	18.9	19.3	19.2
16		15.5	15.4	14.5	15.2	15.9	15	14.8	14.8	15.1	15.5	15.4
18			12	11.2	12.1	12.9	12	11.8	11.9	12.3	12.7	12.6
20			9.5	8.7	9.6	10.5	9.7	9.6	9.7	10	10.5	10.5
22				6.8	7.7	8.6	7.9	7.8	7.9	8.3	8.7	8.7
24					6.1	7	6.4	6.3	6.5	6.8	7.3	7.3
26					4.8	5.7	5.1	5	5.3	5.6	6.1	6.1
28						4.7	4	4	4.2	4.6	5.1	5.1
30						3.8	3.2	3.1	3.3	3.7	4.2	4.3
32							2.4	2.3	2.6	3	3.4	3.5
34							1.7	1.7	1.9	2.3	2.8	2.8
36							1.2	1.1	1.3	1.7	2.2	2.2
38										1.2	1.7	1.7
40											1.2	1.2
42												
44												
46												
48												
50												
52												
54												
56												

Table 7 Main boom (0 t counterweight, outriggers completely extended, over full range)

Unit: Metric ton

Boom length m / Radius m	13.8	18.1	22.4	26.7	31.0	35.4	39.7	44.0	48.3	52.7	57.1	61
3	170											
3.5	150	145										
4	139	135	130	114								
4.5	130	126	121	113	92							
5	121	117	112	110	92	80						
6	90	85	79	72	70	68	60					
7	61	58	55	51	50	49	46	45				
8	45	44	41	38.8	38	38.9	36.7	35.4	34.7			
9	34.8	34	33	30.6	30.8	31.2	29.5	28.8	28.2	28.3		
10	27.9	27	26.8	25	25.3	25.8	24.5	23.8	23.7	23.7	23.7	
11	22.5	23	22.2	20.6	21.1	21.8	20.6	20.1	19.9	20.2	20.4	20.2
12		19.4	18.7	17.2	17.9	18.6	17.5	17.1	17.1	17.3	17.6	17.5
14		13.8	13.7	12.5	13.2	14	13	12.8	12.8	13.1	13.5	13.4
16		10.1	10	9.1	9.9	10.7	9.9	9.7	9.8	10.1	10.6	10.6
18			7.5	6.6	7.5	8.3	7.6	7.4	7.6	7.9	8.4	8.4
20			5.5	4.7	5.6	6.5	5.8	5.6	5.8	6.2	6.6	6.7
22				3.2	4.1	5	4.4	4.2	4.4	4.8	5.3	5.3
24					2.9	3.8	3.2	3.1	3.3	3.7	4.2	4.2
26					1.9	2.8	2.2	2.1	2.4	2.8	3.2	3.3
28						2	1.4	1.3	1.6	2	2.4	2.5
30						1.3				1.3	1.7	1.8
32											1.1	1.2
34												
36												
38												
40												
42												
44												
46												
48												
50												
52												
54												
56												

Table 8 Jib (10.75 m jib, outriggers completely extended, 75 t counterweight)

Unit: Metric ton

Main boom length	44.0 m			48.3 m			52.7 m			57.1 m			61 m		
Boom angle / Offset	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
82	14.0	9.4	7.2	13.6	9.3	7.1	12.7	9.2	7.2	12.1	8.8	7.0	11.3	8.4	6.8
80	13.1	9.0	7.0	12.6	8.8	6.9	12.1	8.7	7.0	11.2	8.3	6.8	10.5	8.0	6.6
78	12.2	8.6	6.8	11.7	8.4	6.7	11.3	8.3	6.7	10.5	7.9	6.6	9.9	7.6	6.3
76	11.4	8.2	6.6	11.0	8.1	6.5	10.6	7.9	6.5	9.9	7.6	6.4	9.3	7.3	6.1
74	10.7	7.9	6.4	10.3	7.7	6.4	9.9	7.6	6.3	9.4	7.3	6.2	8.8	7.0	6.0
72	10.1	7.6	6.3	9.7	7.5	6.2	9.4	7.3	6.2	8.9	7.1	6.0	8.4	6.8	5.8
70	9.6	7.4	6.1	9.2	7.2	6.1	8.9	7.1	6.0	8.5	6.8	5.9	8.0	6.5	5.7
68	9.1	7.1	6.0	8.8	7.0	5.9	8.5	6.8	5.9	8.1	6.6	5.7	7.7	6.3	5.6
66	8.7	6.9	5.9	8.4	6.7	5.9	8.2	6.6	5.8	7.7	6.4	5.7	7.4	6.2	5.5
64	8.3	6.7	5.8	8.1	6.5	5.7	7.8	6.4	5.7	7.5	6.2	5.5	7.1	6.0	5.4
62	8.0	6.5	5.7	7.7	6.4	5.6	7.6	6.3	5.6	7.2	6.1	5.5	6.9	5.8	5.3
60	7.7	6.3	5.6	7.5	6.2	5.6	7.3	6.1	5.5	7.0	5.9	5.4	6.6	5.7	5.2
58	7.5	6.2	5.6	7.2	6.1	5.5	7.1	6.0	5.4	6.8	5.8	5.3	6.4	5.6	5.2
56	7.2	6.1	5.5	7.0	5.9	5.4	6.8	5.9	5.4	6.6	5.7	5.3	6.3	5.5	5.1
54	7.0	6.0	5.4	6.8	5.9	5.3	6.6	5.7	5.3	6.4	5.6	5.2	6.1	5.4	5.1
52	6.8	5.8	5.4	6.6	5.7	5.3	6.5	5.7	5.3	6.2	5.5	5.2	6.0	5.3	5.0
50	6.6	5.7	5.3	6.4	5.6	5.2	6.3	5.6	5.2	6.1	5.4	5.1	5.8	5.3	5.0
45	6.2	5.5	5.2	6.1	5.5	5.2	6.0	5.4	5.2	5.8	5.3	5.1	5.3	5.1	4.9
40	6.0	5.4	5.2	5.8	5.3	5.1	5.7	5.3	5.1	5.4	5.2	5.1	4.7	4.6	4.6
35	5.7	5.3	5.2	5.6	5.2	5.1	5.5	5.2	5.1	4.9	4.8	4.8	4.2	4.1	4.1

Note:

Jib variant 1: adaptor I + adaptor II + jib section 1

Table 9 Jib (18 m jib, outriggers completely extended, 75 t counterweight)

Unit: Metric ton

Main boom length	44.0 m			48.3 m			52.7 m			57.1 m			61 m		
Offset / Boom angle	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
82	8.1	5.0	3.8	7.9	5.0	3.7	7.9	5.0	3.8	7.6	4.9	3.7	7.3	4.8	3.7
80	7.4	4.8	3.7	7.3	4.7	3.6	7.2	4.8	3.6	7.0	4.7	3.6	6.8	4.6	3.6
78	6.9	4.6	3.5	6.7	4.5	3.5	6.7	4.5	3.6	6.4	4.4	3.5	6.3	4.4	3.4
76	6.4	4.4	3.5	6.2	4.3	3.4	6.2	4.3	3.4	6.0	4.2	3.4	5.8	4.2	3.4
74	6.0	4.2	3.4	5.8	4.1	3.3	5.8	4.2	3.4	5.6	4.1	3.3	5.5	4.0	3.3
72	5.6	4.0	3.3	5.5	4.0	3.3	5.5	4.0	3.3	5.3	3.9	3.2	5.1	3.9	3.2
70	5.3	3.9	3.2	5.2	3.8	3.2	5.2	3.8	3.2	5.0	3.8	3.2	4.9	3.7	3.1
68	5.0	3.8	3.1	4.9	3.7	3.1	4.9	3.7	3.1	4.8	3.6	3.1	4.7	3.6	3.1
66	4.8	3.7	3.1	4.7	3.6	3.1	4.7	3.6	3.1	4.5	3.6	3.0	4.4	3.5	3.0
64	4.6	3.5	3.0	4.5	3.5	3.0	4.5	3.5	3.0	4.3	3.4	3.0	4.2	3.4	3.0
62	4.4	3.5	3.0	4.3	3.4	2.9	4.3	3.4	3.0	4.2	3.4	2.9	4.1	3.3	2.9
60	4.2	3.4	2.9	4.1	3.3	2.9	4.1	3.4	2.9	4.0	3.3	2.9	3.9	3.3	2.9
58	4.0	3.3	2.9	4.0	3.3	2.9	4.0	3.3	2.9	3.9	3.2	2.9	3.8	3.2	2.8
56	3.9	3.2	2.8	3.8	3.2	2.8	3.8	3.2	2.8	3.7	3.2	2.8	3.6	3.1	2.8
54	3.8	3.2	2.8	3.7	3.1	2.8	3.7	3.1	2.8	3.6	3.1	2.8	3.6	3.0	2.8
52	3.7	3.1	2.8	3.6	3.1	2.8	3.6	3.1	2.8	3.5	3.0	2.8	3.4	3.0	2.7
50	3.5	3.0	2.7	3.5	3.0	2.7	3.5	3.0	2.8	3.4	3.0	2.7	3.4	2.9	2.7
45	3.3	2.9	2.7	3.3	2.9	2.7	3.3	2.9	2.7	3.2	2.9	2.7	3.2	2.8	2.7
40	3.2	2.8	2.7	3.1	2.8	2.7	3.1	2.9	2.7	3.1	2.8	2.7	3.0	2.8	2.7
35	3.0	2.8	2.7	3.0	2.8	2.7	3.0	2.8	2.7	2.9	2.8	2.7	2.9	2.7	2.7

Note:

Jib variant 2: adaptor I + adaptor II + jib section 1 + jib section 2

Table 10 Jib (18.75 m jib, outriggers completely extended, 75 t counterweight)

Unit: Metric ton

Main boom length	44.0 m			48.3 m			52.7 m			57.1 m			61 m		
Boom angle \ Offset	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
82	8.0	4.9	3.6	7.8	4.8	3.6	7.8	4.8	3.6	7.5	4.7	3.5	7.1	4.6	3.4
80	7.3	4.6	3.5	7.1	4.6	3.5	7.1	4.6	3.5	6.8	4.5	3.5	6.5	4.3	3.4
78	6.7	4.4	3.4	6.6	4.4	3.3	6.5	4.4	3.4	6.3	4.3	3.3	6.0	4.1	3.2
76	6.2	4.2	3.3	6.1	4.2	3.3	6.0	4.2	3.3	5.8	4.1	3.2	5.6	3.9	3.2
74	5.8	4.0	3.2	5.7	4.0	3.2	5.6	4.0	3.2	5.4	3.9	3.2	5.2	3.8	3.1
72	5.4	3.9	3.1	5.3	3.8	3.1	5.3	3.8	3.1	5.1	3.8	3.1	4.9	3.6	3.0
70	5.1	3.7	3.1	5.0	3.7	3.0	5.0	3.7	3.0	4.8	3.6	3.0	4.6	3.5	2.9
68	4.9	3.6	3.0	4.8	3.5	3.0	4.7	3.6	3.0	4.6	3.5	2.9	4.4	3.4	2.9
66	4.6	3.5	2.9	4.5	3.5	2.9	4.5	3.5	2.9	4.4	3.4	2.9	4.2	3.3	2.8
64	4.4	3.4	2.9	4.3	3.3	2.8	4.3	3.3	2.9	4.2	3.3	2.8	4.0	3.2	2.8
62	4.2	3.3	2.8	4.1	3.3	2.8	4.1	3.3	2.8	4.0	3.2	2.8	3.8	3.1	2.7
60	4.0	3.2	2.8	4.0	3.2	2.7	3.9	3.2	2.8	3.8	3.1	2.7	3.7	3.1	2.7
58	3.9	3.1	2.7	3.8	3.1	2.7	3.8	3.1	2.7	3.7	3.1	2.7	3.5	3.0	2.6
56	3.7	3.1	2.7	3.7	3.0	2.7	3.7	3.0	2.7	3.6	3.0	2.7	3.4	2.9	2.6
54	3.6	3.0	2.6	3.5	3.0	2.6	3.5	3.0	2.7	3.5	2.9	2.6	3.3	2.8	2.6
52	3.5	2.9	2.6	3.5	2.9	2.6	3.5	2.9	2.6	3.3	2.9	2.6	3.2	2.8	2.5
50	3.4	2.9	2.6	3.3	2.8	2.6	3.3	2.9	2.6	3.3	2.8	2.6	3.2	2.7	2.5
45	3.2	2.7	2.6	3.1	2.7	2.5	3.1	2.8	2.6	3.1	2.7	2.6	3.0	2.7	2.5
40	3.0	2.7	2.5	3.0	2.7	2.5	3.0	2.7	2.6	2.9	2.7	2.5	2.8	2.6	2.5
35	2.8	2.6	2.5	2.8	2.6	2.5	2.8	2.6	2.5	2.8	2.6	2.5	2.7	2.5	2.5

Note:

Jib variant 3: adaptor I + adaptor II + extension 2 + jib section 1

Table 11 Jib (18.75 m jib, outriggers completely extended, 75 t counterweight)

Unit: Metric ton

Main boom length	44.0 m			48.3 m			52.7 m			57.1 m			61 m		
Boom angle \ Offset	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
82	8.4	6.4	5.3	8.0	6.2	5.2	7.3	6.0	5.1	7.2	5.7	4.9	6.7	5.5	4.7
80	7.7	6.0	5.1	7.4	5.8	4.9	7.1	5.6	4.8	6.6	5.4	4.6	6.2	5.1	4.5
78	7.1	5.6	4.8	6.8	5.5	4.7	6.5	5.3	4.6	6.1	5.1	4.4	5.8	4.9	4.3
76	6.6	5.3	4.6	6.3	5.1	4.5	6.1	5.0	4.4	5.7	4.8	4.2	5.4	4.6	4.1
74	6.1	5.0	4.4	5.9	4.9	4.3	5.7	4.8	4.2	5.3	4.5	4.0	5.1	4.4	3.9
72	5.7	4.8	4.2	5.5	4.6	4.1	5.3	4.5	4.0	5.0	4.3	3.9	4.8	4.1	3.7
70	5.4	4.5	4.0	5.2	4.4	3.9	5.0	4.3	3.9	4.8	4.1	3.7	4.5	4.0	3.6
68	5.1	4.3	3.9	4.9	4.2	3.8	4.8	4.1	3.7	4.5	3.9	3.6	4.3	3.8	3.5
66	4.8	4.1	3.7	4.7	4.0	3.7	4.5	3.9	3.6	4.3	3.8	3.5	4.1	3.6	3.4
64	4.6	4.0	3.7	4.5	3.9	3.6	4.3	3.8	3.5	4.1	3.6	3.4	3.9	3.5	3.3
62	4.4	3.8	3.5	4.3	3.7	3.4	4.1	3.6	3.4	3.9	3.5	3.3	3.8	3.4	3.2
60	4.2	3.7	3.4	4.1	3.6	3.4	3.9	3.5	3.3	3.8	3.4	3.2	3.6	3.3	3.1
58	4.0	3.6	3.4	3.9	3.5	3.3	3.8	3.4	3.2	3.6	3.3	3.1	3.5	3.2	3.0
56	3.9	3.5	3.3	3.8	3.4	3.2	3.7	3.3	3.2	3.5	3.2	3.1	3.4	3.1	3.0
54	3.7	3.4	3.2	3.6	3.3	3.1	3.5	3.2	3.1	3.4	3.2	3.0	3.3	3.0	2.9
52	3.6	3.3	3.1	3.5	3.2	3.1	3.5	3.2	3.0	3.3	3.1	2.9	3.2	3.0	2.9
50	3.5	3.2	3.1	3.4	3.2	3.0	3.3	3.1	3.0	3.2	3.0	2.9	3.1	2.9	2.8
45	3.3	3.0	2.9	3.2	3.0	2.9	3.1	2.9	2.8	3.0	2.8	2.8	2.9	2.8	2.7
40	3.1	2.9	2.9	3.0	2.8	2.8	3.0	2.8	2.8	2.9	2.8	2.7	2.8	2.7	2.7
35	2.9	2.8	2.8	2.9	2.8	2.7	2.8	2.7	2.7	2.8	2.7	2.7	2.7	2.6	2.6

Note:

Jib variant 4: extension 1 + adaptor I + adaptor II + jib section 1

Table 12 Jib (26 m jib, outriggers completely extended, 75 t counterweight)

Unit: Metric ton

Main boom length	44.0 m			48.3 m			52.7 m			57.1 m			61 m		
Boom angle \ Offset	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
82	5.2	3.2	2.3	5.1	3.1	2.3	4.9	3.1	2.3	4.9	3.0	2.2	4.7	3.0	2.2
80	4.8	3.0	2.2	4.7	3.0	2.2	4.7	2.9	2.2	4.5	2.9	2.2	4.3	2.8	2.1
78	4.4	2.8	2.1	4.3	2.8	2.1	4.3	2.8	2.1	4.1	2.7	2.1	4.0	2.7	2.1
76	4.1	2.7	2.1	4.0	2.7	2.1	3.9	2.7	2.1	3.8	2.6	2.0	3.7	2.5	2.0
74	3.8	2.6	2.0	3.7	2.5	2.0	3.7	2.5	2.0	3.6	2.5	2.0	3.5	2.5	1.9
72	3.6	2.5	2.0	3.5	2.5	1.9	3.5	2.5	1.9	3.4	2.4	1.9	3.2	2.3	1.9
70	3.4	2.4	1.9	3.3	2.3	1.9	3.3	2.3	1.9	3.2	2.3	1.9	3.0	2.3	1.8
68	3.2	2.3	1.9	3.1	2.3	1.8	3.1	2.3	1.8	3.0	2.2	1.8	2.9	2.2	1.8
66	3.0	2.2	1.8	2.9	2.2	1.8	2.9	2.2	1.8	2.8	2.2	1.8	2.7	2.1	1.7
64	2.8	2.2	1.8	2.8	2.1	1.8	2.8	2.1	1.8	2.7	2.1	1.7	2.6	2.0	1.7
62	2.7	2.1	1.7	2.7	2.1	1.7	2.6	2.1	1.7	2.6	2.0	1.7	2.5	2.0	1.7
60	2.6	2.0	1.7	2.5	2.0	1.7	2.6	2.0	1.7	2.5	2.0	1.7	2.4	1.9	1.6
58	2.5	2.0	1.7	2.5	1.9	1.7	2.4	1.9	1.7	2.4	1.9	1.6	2.3	1.9	1.6
56	2.4	1.9	1.6	2.3	1.9	1.6	2.3	1.9	1.6	2.3	1.9	1.6	2.2	1.8	1.6
54	2.3	1.9	1.6	2.3	1.8	1.6	2.3	1.8	1.6	2.2	1.8	1.6	2.2	1.8	1.6
52	2.2	1.8	1.6	2.2	1.8	1.6	2.2	1.8	1.6	2.1	1.8	1.6	2.1	1.7	1.6
50	2.2	1.8	1.6	2.1	1.8	1.6	2.1	1.8	1.6	2.1	1.7	1.6	2.0	1.7	1.5
45	2.0	1.7	1.6	2.0	1.7	1.5	2.0	1.7	1.6	1.9	1.7	1.5	1.9	1.6	1.5
40	1.9	1.7	1.5	1.8	1.6	1.5	1.8	1.6	1.5	1.8	1.6	1.5	1.8	1.6	1.5
35	1.8	1.6	1.5	1.8	1.6	1.5	1.8	1.6	1.5	1.7	1.6	1.5	1.7	1.6	1.5

Note:

Jib variant 5: adaptor I + adaptor II + extension 2 + jib section 1 + jib section 2

Table 13 Jib (26 m jib, outriggers completely extended, 75 t counterweight)

Unit: Metric ton

Main boom length	44.0 m			48.3 m			52.7 m			57.1 m			61 m		
Boom angle / Offset	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
82	5.9	4.1	3.3	5.7	4.0	3.2	5.5	3.9	3.1	5.1	3.7	3.0	4.8	3.6	2.9
80	5.4	3.9	3.1	5.2	3.8	3.0	4.9	3.7	2.9	4.6	3.5	2.8	4.4	3.3	2.8
78	4.9	3.6	2.9	4.7	3.5	2.9	4.5	3.4	2.8	4.3	3.3	2.7	4.0	3.1	2.6
76	4.5	3.4	2.8	4.4	3.3	2.7	4.2	3.2	2.7	3.9	3.1	2.6	3.7	3.0	2.5
74	4.2	3.2	2.7	4.0	3.1	2.6	3.9	3.0	2.6	3.7	2.9	2.5	3.5	2.8	2.4
72	3.9	3.0	2.6	3.8	3.0	2.5	3.6	2.9	2.5	3.4	2.8	2.4	3.3	2.6	2.3
70	3.7	2.9	2.5	3.5	2.8	2.4	3.4	2.7	2.4	3.2	2.6	2.3	3.1	2.5	2.2
68	3.4	2.7	2.4	3.3	2.7	2.3	3.2	2.6	2.3	3.0	2.5	2.2	2.9	2.4	2.2
66	3.2	2.6	2.3	3.1	2.6	2.3	3.0	2.5	2.2	2.9	2.4	2.2	2.7	2.3	2.1
64	3.1	2.5	2.2	3.0	2.5	2.2	2.9	2.4	2.2	2.7	2.3	2.1	2.6	2.2	2.0
62	2.9	2.4	2.2	2.8	2.4	2.1	2.7	2.3	2.1	2.6	2.2	2.0	2.5	2.2	2.0
60	2.8	2.4	2.1	2.7	2.3	2.1	2.6	2.2	2.0	2.5	2.2	2.0	2.4	2.1	1.9
58	2.6	2.3	2.1	2.6	2.2	2.0	2.5	2.2	2.0	2.4	2.1	1.9	2.3	2.0	1.9
56	2.6	2.2	2.0	2.5	2.2	2.0	2.4	2.1	1.9	2.3	2.0	1.9	2.2	2.0	1.8
54	2.4	2.1	1.9	2.4	2.1	1.9	2.3	2.0	1.9	2.2	2.0	1.8	2.1	1.9	1.8
52	2.4	2.1	1.9	2.3	2.0	1.9	2.2	2.0	1.8	2.1	1.9	1.8	2.1	1.8	1.7
50	2.3	2.0	1.9	2.2	2.0	1.8	2.2	1.9	1.8	2.1	1.9	1.8	2.0	1.8	1.7
45	2.1	1.9	1.8	2.0	1.8	1.8	2.0	1.8	1.7	1.9	1.8	1.7	1.9	1.7	1.7
40	2.0	1.8	1.8	1.9	1.8	1.7	1.9	1.8	1.7	1.8	1.7	1.7	1.8	1.7	1.6
35	1.9	1.8	1.7	1.8	1.7	1.7	1.8	1.7	1.7	1.8	1.7	1.6	1.7	1.6	1.6

Note:

Jib variant 6: extension 1 + adaptor I + adaptor II + jib section 1 + jib section 2

Table 14 Jib (26.75 m jib, outriggers completely extended, 75 t counterweight)

Unit: Metric ton

Main boom length	44.0 m			48.3 m			52.7 m			57.1 m			61 m		
Offset / Boom angle	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
82	5.8	4.0	3.1	5.5	3.8	3.0	5.3	3.7	3.0	4.9	3.6	2.8	4.7	3.4	2.8
80	5.2	3.7	2.9	5.0	3.6	2.9	4.8	3.5	2.8	4.5	3.3	2.7	4.2	3.2	2.6
78	4.8	3.5	2.8	4.6	3.4	2.7	4.4	3.3	2.7	4.1	3.1	2.6	3.9	3.0	2.5
76	4.4	3.3	2.6	4.2	3.2	2.6	4.0	3.1	2.5	3.8	2.9	2.4	3.6	2.8	2.4
74	4.0	3.1	2.5	3.9	3.0	2.5	3.7	2.9	2.5	3.5	2.8	2.4	3.4	2.7	2.3
72	3.8	2.9	2.5	3.6	2.8	2.4	3.5	2.7	2.3	3.3	2.6	2.2	3.1	2.5	2.2
70	3.5	2.8	2.3	3.4	2.7	2.3	3.3	2.6	2.3	3.1	2.5	2.2	2.9	2.4	2.1
68	3.3	2.6	2.3	3.2	2.5	2.2	3.1	2.5	2.2	2.9	2.4	2.1	2.8	2.3	2.0
66	3.1	2.5	2.2	3.0	2.5	2.1	2.9	2.4	2.1	2.7	2.3	2.0	2.6	2.2	2.0
64	2.9	2.4	2.1	2.8	2.3	2.1	2.7	2.3	2.0	2.6	2.2	2.0	2.5	2.1	1.9
62	2.8	2.3	2.1	2.7	2.3	2.0	2.6	2.2	2.0	2.5	2.1	1.9	2.4	2.0	1.8
60	2.6	2.2	2.0	2.6	2.2	2.0	2.5	2.1	1.9	2.4	2.0	1.9	2.3	2.0	1.8
58	2.5	2.2	1.9	2.4	2.1	1.9	2.4	2.1	1.9	2.3	2.0	1.8	2.2	1.9	1.7
56	2.4	2.1	1.9	2.4	2.0	1.8	2.3	2.0	1.8	2.2	1.9	1.8	2.1	1.8	1.7
54	2.3	2.0	1.8	2.2	2.0	1.8	2.2	1.9	1.8	2.1	1.9	1.7	2.0	1.8	1.7
52	2.3	2.0	1.8	2.2	1.9	1.8	2.1	1.9	1.7	2.0	1.8	1.7	2.0	1.7	1.6
50	2.2	1.9	1.8	2.1	1.9	1.7	2.1	1.8	1.7	2.0	1.8	1.6	1.9	1.7	1.6
45	2.0	1.8	1.7	1.9	1.7	1.7	1.9	1.7	1.6	1.8	1.7	1.6	1.7	1.6	1.6
40	1.9	1.7	1.6	1.8	1.7	1.6	1.8	1.7	1.6	1.7	1.6	1.6	1.7	1.6	1.5
35	1.8	1.6	1.6	1.7	1.6	1.6	1.7	1.6	1.6	1.7	1.6	1.5	1.6	1.5	1.5

Note:

Jib variant 7: extension 1 + adaptor I + adaptor II + extension 2 + jib section 1

Table 15 Jib (34 m jib, outriggers completely extended, 75 t counterweight)

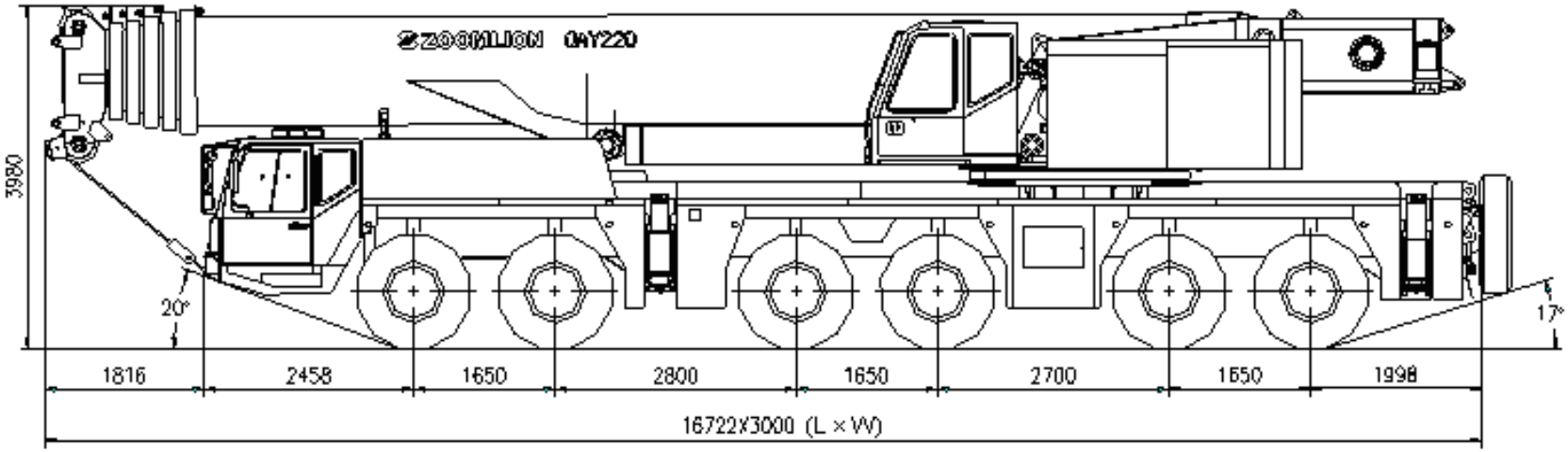
Unit: Metric ton

Main boom length	44.0 m			48.3 m			52.7 m			57.1 m			61 m		
Boom angle \ Offset	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
82	3.7	2.4	1.8	3.5	2.3	1.8	3.4	2.2	1.7	3.1	2.1	1.6	2.7	2.1	1.6
80	3.3	2.2	1.7	3.2	2.2	1.7	3.1	2.1	1.6	2.9	2.0	1.6	2.7	1.9	1.5
78	3.0	2.1	1.6	2.9	2.0	1.6	2.8	2.0	1.5	2.6	1.9	1.5	2.5	1.8	1.4
76	2.8	1.9	1.5	2.7	1.9	1.5	2.5	1.8	1.4	2.4	1.7	1.4	2.3	1.7	1.4
74	2.6	1.8	1.5	2.5	1.8	1.4	2.3	1.7	1.4	2.2	1.6	1.3	2.1	1.6	1.3
72	2.4	1.7	1.4	2.3	1.7	1.4	2.2	1.6	1.3	2.0	1.6	1.3	1.9	1.5	1.2
70	2.2	1.6	1.3	2.1	1.6	1.3	2.0	1.5	1.3	1.9	1.5	1.2	1.8	1.4	1.2
68	2.0	1.5	1.3	2.0	1.5	1.3	1.9	1.4	1.2	1.8	1.4	1.2	1.7	1.3	1.1
66	1.9	1.5	1.2	1.8	1.4	1.2	1.8	1.4	1.2	1.7	1.3	1.1	1.6	1.3	1.1
64	1.8	1.4	1.2	1.7	1.4	1.2	1.6	1.3	1.1	1.6	1.3	1.1	1.5	1.2	1.0
62	1.7	1.4	1.1	1.6	1.3	1.1	1.6	1.3	1.1	1.5	1.2	1.0	1.4	1.2	1.0
60	1.6	1.3	1.1	1.6	1.3	1.1	1.5	1.2	1.1	1.4	1.2	1.0	1.3	1.1	1.0
58	1.5	1.2	1.1	1.5	1.2	1.0	1.4	1.2	1.0	1.3	1.1	1.0	1.3	1.1	
56	1.5	1.2	1.0	1.4	1.2	1.0	1.4	1.1	1.0	1.3	1.1	1.0	1.2	1.0	
54	1.4	1.1	1.0	1.3	1.1	1.0	1.3	1.1	1.0	1.2	1.0		1.2	1.0	
52	1.3	1.1	1.0	1.3	1.1	1.0	1.2	1.0		1.2	1.0		1.1	1.0	
50	1.3	1.1	1.0	1.2	1.0		1.2	1.0		1.1	1.0		1.1		
45	1.1	1.0		1.1	1.0		1.1	1.0		1.0			1.0		
40	1.1	1.0		1.0			1.0			1.0					
35	1.0			1.0			1.0								

Note:

Jib variant 8: extension 1 + adaptor I + adaptor II + extension 2 + jib section 1 + jib section 2

2.4 Overall view (Unit: Metric mm)



3 Specifications, superstructure

3.1 Main boom and telescoping mechanism

The main boom consists of 6 oval box-shaped boom sections made from high-strength structural steel (δ_s = 960 MPa), providing the boom with super lifting capacity.

Main boom length: 13.8 m to 61 m

Max. number of reeving: 18

In the automatic rapid-cycle telescoping system, all telescopic sections are driven by a telescopic cylinder and pinned mechanically, extendable independently of each other.

3.2 Jib

The jib consists of two jib sections and two extensions. The jib sections are reducing and lattice structured and the extensions are constant and lattice structured. The jib can be combined to various lengths according to different requirements.

The jib cannot be attached with the vehicle during driving.

Jib variants: 10.7 m, 18 m, 18.7 m, 26 m, 26.7 m, 34 m

3.3 Slewing table

The slewing table welded by high-strength structural steel (δ_s = 960 MPa) has high structural strength and super load bearing capacity.

3.4 Rooster sheave

It is inserted at the boom head of telescopic boom section 5. This option is set up for rapid hoists over the boom head to improve the working efficiency when the loads are light.

3.5 Derricking mechanism

1 hydraulic cylinder with safety balance valve provides the boom with smooth derricking movements from -0.5° to 82°.

3.6 Slewing mechanism

Hydraulic motor + planetary reducer

Triple-roller slewing ring provides big output torque and smooth slewing.

3.7 Hoist mechanism

Hydraulic motor + planetary reducer

The models of main and auxiliary hoist winches are the same. Main hoist mechanism is driven by a variable motor and auxiliary hoist mechanism is driven by a fixed displacement motor.

Diameter of main / auxiliary hoist rope: φ23 mm

The auxiliary hoist mechanism cannot be attached with the vehicle during driving.

3.8 Main and auxiliary hooks

6 hooks.

The maximum lifting capacities in various reevings: 220 t, 160 t, 100 t, 50 t, 16 t, 9 t (1 reeving)

You can select the proper one according to the working requirements.

3.9 Operator's cab

Steel construction, can be tilted backwards for 20° to broaden the operator's field of vision. The cab is wide in front section and narrow in rear section, providing spacious operating space.

It is equipped with air conditioning and cab heater.

3.10 Outriggers

H-type outriggers with box-shaped section welded by high-strength steel (δs = 960 MPa). 2-section sliding beams can be extended simultaneously.

Span (longitudinal distance × horizontal distance): 8800 × 8800 mm

3.11 Hydraulic system

Open / closed variable system offers little hydraulic pressure loss, high working efficiency, accurate movements, stable & reliable work and stepless speed regulation.

The superstructure is electro-hydraulic proportional controlled with computer system, providing comfortable operation, accurate micro-positioning performance and simultaneous movements.

In addition, this crane is also of such functions as counterweight self-handling function, operator's cab tilting angle regulation, overload protection and engine idle speed regulation, providing stable brake performance and high system reliability.

3.12 Electrical system

Data bus technology effectively decreases the uses of cables and connections, improving system reliability and is convenient for maintenance.

This system is of such functions as bypassing superstructure movements in an emergency, engine load limit control and RPM limit control.

The computer system is used to monitor the crane movements and display the relevant parameters in real time for analysis and treatment. It is also of self-diagnosis function.

Electron accelerator, easy for operation.

Main control elements are all imported from Germany.

3.13 Safety devices

This crane is equipped with an automatic load moment limiter whose display and warning devices are all fitted in the operator's cab.

If the actual load reaches 90% of the rated one, the warning light lights up and buzzer sends out slow acoustic warning.

If the actual load approaches 100% of the rated one, the warning light lights up, buzzer sends out fast acoustic warning and all dangerous crane movements are switched off.

The basic parameters, such as moment ratio, boom angle, boom length, working radius, actual lifting capacity, rated lifting capacity and maximum lifting height, will be displayed on the LCD.

This crane is also equipped with the following safety devices to ensure the crane safety:

a) Boom angle indicator

b) Hoisting limit switch

c) Hook latch

d) Lowering limit switch

e) Two-way hydraulic lock

f) Balance valve

g) Relief valve

3.14 Engine

In-line 6-cylinder diesel, turbo-charged, intercooled (water to air), conforming to EU II environmental protection requirements.

Manufacturer: Mercedes – Benz

Performance: 190 KW at 2200 rpm

Maximum torque: 1000 Nm at 1200 rpm

3.15 Air conditioning

The driver's cab and operator's cab are all equipped with special air conditioning for vehicle.

3.16 Counterweight

Movable counterweight plates can be combined according to various working conditions.

Total weight: 75 t.

Movable counterweight plates can be assembled and disassembled by the counterweight handler on the tail of slewing table.

Weight variants: 11 t, 22 t, 33 t, 43 t, 60 t, 75 t

3.17 Central lubricating system

All the lubricating points are automatically supplied with the correct grease quantity.

4. Specifications, chassis

For detailed information, please refer to *Technical Specifications, Special Purpose Chassis for All Terrain Crane*.

Appendix

Table of main purchased parts

Ser. No.	Description	Manufacturer	Remarks
1	Engine, superstructure	Benz (Germany)	
2	Engine, chassis	Benz (Germany)	
3	Transmission	ZF Friedrichshafen AG (Germany) (Automatic)	
4	Transfer case	ZF Friedrichshafen AG (Germany)	
5	Steering axle / driving axle	KESSLER Group (Germany)	
6	Tire	Michelin group, Bridgestone Group (Japan), Double Coin Holdings LTD. (Shanghai), Guizhou Tyre Co., Ltd. (Advance tire), Aeolus Tyre Co., LTD. (He'nan)	
7	Hydraulic pump, superstructure	Linde (Germany)	
8	Hydraulic pump, chassis	Ji'nan Hydraulic Pump Co., Ltd.	
9	Horizontal cylinder	Chengdu Oil Cylinder Factory, Hunan Teli Hydraulic Co., Ltd.	
10	Vertical cylinder	Chengdu Oil Cylinder Factory, Hunan Teli Hydraulic Co., Ltd.	
11	Slewing ring	Rex (Xuzhou)	
12	Slewing mechanism	Bosch Rexroth, Xuzhou Keyuan Hydraulic Co., Ltd.	
13	Slewing motor	Rexroth (Germany), Shanghai Electric Hydraulic and Pneumatic Co., Ltd.	
14	Main hoist mechanism	Bosch Rexroth	
15	Auxiliary hoist mechanism	Bosch Rexroth	
16	Main hoist motor	Rexroth (Germany), Linde (Germany)	
17	Auxiliary hoist motor	Rexroth (Germany), Linde (Germany)	
18	Telescopic cylinder	Chengdu Oil Cylinder Factory, Hunan Teli Hydraulic Co., Ltd.	
19	Derricking cylinder	Chengdu Oil Cylinder Factory, Hunan Teli Hydraulic Co., Ltd.	
20	Hoist balance valve	Bucher Hydraulics Remscheid GMBH (Germany)	
21	Derricking balance valve	Bucher Hydraulics Remscheid GMBH (Germany)	
22	Telescoping balance valve	Bucher Hydraulics Remscheid GMBH (Germany)	
23	Multiple unit valve, superstructure	Bucher Hydraulics Remscheid GMBH (Germany), HAWE (Germany)	
24	Load moment limiter	Hirschmann (PAT) (Germany)	
25	Valve for left / right pilot-operated electro-hydraulic proportional joystick	UK P+G (Shanghai PalFin as its agency)	
26	Pipe fitting for cutting sleeve	EMB (Germany)	

Ser. No.	Description	Manufacturer	Remarks
27	Hoist rope	Preifer (Germany) DIEPA (Germany)	
28	Main boom material	Sweden	

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.