ZOOMLION ZLJ5550JQZ150V TRUCK CRANE

TECHNICAL SPECIFICATIONS

QY150V633/27Y

ZOOMLION HEAVY INDUSTRY SCIENCE & TECHNOLOGY CO., LTD.

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1 Product characteristics

ZLJ5550JQZ150V truck crane, which makes good use of our several decades' technological crystallization in designing and manufacturing mobile cranes combined with internationally advanced technologies, 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 and absorbing the technologies for all terrain crane, 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 a truck crane of full range slewing function, telescopic boom sections and electro-hydraulic proportional controlled systems. This product adopts full-width 6-axle (3 axles driven and 4 axles steered) special purpose chassis manufactured by Zoomlion, providing wide vision, spacious cab and luxurious & comfortable furnishing.

The latest electro-hydraulic proportional directional control valve with load sensing function, multiple plunger variable pumps and open / closed variable hydraulic system ensure that each executive mechanism makes full use of its working capability. The joysticks which are easy-controlled, flexible, reliable and stepless speed regulated can provide the crane with smooth simultaneous movements among "Spool up main / auxiliary winch" "Reel off main / auxiliary winch", "Derricking", "Slewing" and "Telescoping", which greatly improves the working efficiency. The safety devices, such as relief valve, balance valve, hydraulic lock and brake valve fitted in hydraulic system, prevent the accidents caused by oil line overload and oil pipe ruptures.

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

2 Specifications, complete vehicle

2.1 Product model

Model in auto industry:	ZLJ5550JQZ150V
Model in engineering industry:	QY150V
Code:	QY150V633

2.2 Technical data

Item			Value	Remarks
Working performance	Max. rated lifting capacity	kg	150000	
	Max. load moment of basic boom	kN.m	5292	At 6 m radius
	Max. load moment of max. length main boom kN.m		2264	At 22 m radius
	Max. lifting height of basic boom	m	13.5	
	Max. lifting height of main boom	m	60	These parameters do not include deflection of main boom and jib. The value in the bracket is the value with extension installed.
	Max. lifting height of jib	m	78.4 / (86)	
Working speeds	Max. hoist rope speed (Main winch) m/min		110	At 5th layer
	Max. hoist rope speed (Auxiliary winch) m/min		75	At 3rd layer
	Boom derricking up time	s	78	
	Boom telescoping out time	min	12	
	Max. slewing speed	r/min	1.5	
Driving	Max. driving speed	km/h	72	
	Max. gradeability	%	40	
	Min. turning diameter	m	≤24	
	Min. ground clearance	mm	280	
	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	54900	
	Complete vehicle kerb mass	kg	54705	
	Load on axles 1, 2 and 3	kg	8700/8700/8700/	
	Load on axles 4, 5 and 6	kg	20800 (tandem axles) /8000	
Dimensions	Overall dimensions (L × W × H)	mm	14990 × 3000 × 3950	
	Longitudinal distance between outriggers m		7.04	
	Transversal distance between outriggers m		For completely extended outriggers: 8.5 m; for intermediately extended outriggers: 6.5 m	
	Main boom length	m	13 - 59	
	Boom angle	°	-1.5 - 82	
	Jib length	m	11, 18.6	

Item			Value	Remarks
	Jib + extension length	m	26.6	
	Offset	°	0 , 15, 30	

2.4 Lifting capacity table

Table 1

Unit: Metric kg

Working radius (m)	Main boom (m)												Working radius (m)
	45 t counterweight, outriggers completely extended, over side and over rear												
	13.0	17.2	21.4	25.6	29.8	34.0	38.2	42.4	46.6	50.8	55.0	59.0	
3.0	150000	110000	98000										3.0
3.5	130000	110000	98000	83000									3.5
4.0	120000	110000	98000	83000	67000								4.0
4.5	110000	105000	95000	83000	67000	58000							4.5
5.0	105000	100000	92000	82000	65000	56000							5.0
5.5	97000	93000	87000	80000	63000	53000	43500						5.5
6.0	90000	87000	83000	78000	60000	50000	43500						6.0
7.0	77000	75000	72000	68000	54000	48000	43500	35000					7.0
8.0	67000	66000	64000	60000	50000	45000	40000	35000	30000				8.0
9.0	58000	58000	57500	55000	45500	42000	37000	33000	28500	24000			9.0
10.0	50000	52000	52000	50000	41500	39000	35000	31000	27000	23000	18000		10.0
11.0		47000	47000	46000	38500	36000	32500	29000	25500	22000	18000	15000	11.0
12.0		42000	42000	42000	36000	33000	30000	27000	24000	21000	18000	14500	12.0
14.0		33000	33000	34000	31000	29000	27000	24000	22000	20000	17000	13900	14.0
16.0			26500	27500	27000	26000	24000	21400	20000	18000	15800	13200	16.0
18.0			21500	22500	22000	23000	21500	19200	18000	16000	14500	12400	18.0
20.0				19000	18400	19400	19000	17600	16300	14500	13300	11500	20.0
22.0				16000	15500	16500	17000	16000	14800	13500	12200	10500	22.0
24.0					13200	14000	15000	14500	13500	12500	11300	9500	24.0
26.0					11000	12200	12900	13000	12400	11500	10500	8500	26.0

28.0						10600	11300	11400	11500	10600	9800	8000	28.0		
30.0						9000	9900	10000	10200	9800	9200	7500	30.0		
32.0							8700	8800	9000	9100	8700	7000	32.0		
34.0							7600	7700	8000	8300	8100	6600	34.0		
36.0								6800	7100	7500	7600	6200	36.0		
38.0								6000	6300	6700	7000	5800	38.0		
40.0									5500	5900	6300	5400	40.0		
42.0										5300	5700	5000	42.0		
44.0										4700	5100	4600	44.0		
46.0											4600	4300	46.0		
48.0											4100	3900	48.0		
50.0												3600	50.0		
52.0												3300	52.0		
54.0													54.0		
Reevings		14	14	12	10	8	7	5	4	4	3	2	2	Reevings	
Hook		110 t hook				70 t hook					27 t hook			Hook	
Telescoping mode	**I**	**1**	**1**	**2**	**2**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**4**	**I**	Telescoping mode
	II	**1**	**2**	**2**	**2**	**2**	**2**	**2**	**3**	**3**	**3**	**3**	**4**	**II**	
	III	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**2**	**3**	**3**	**3**	**4**	**III**	
	IV	**1**	**1**	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**3**	**3**	**4**	**IV**	
	V	**1**	**1**	**1**	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**3**	**4**	**V**	

Note:

Under the rated lifting capacities highlighted in grey, the 150 t hook should be applied. Thereinto, under the lifting capacities of 120 t and 130 t, 16 reevings should be applied; under the lifting capacity of 150 t and 130 t, 18 reevings should be applied.

Table 2

Unit: Metric kg

Working radius (m)	Main boom (m)												Working radius (m)
	32 t counterweight, outriggers completely extended, over side and over rear												
	13.0	17.2	21.4	25.6	29.8	34.0	38.2	42.4	46.6	50.8	55.0	59.0	
3.0	140000	110000	98000										3.0
3.5	125000	110000	98000	83000									3.5
4.0	115000	110000	98000	83000	67000								4.0
4.5	105000	105000	95000	83000	67000	58000							4.5
5.0	99000	96000	92000	82000	65000	56000							5.0
5.5	92000	90000	87000	80000	63000	53000	43500						5.5
6.0	85000	85000	83000	78000	60000	50000	43500						6.0
7.0	72000	72000	72000	68000	54000	48000	43500	35000					7.0
8.0	62000	62000	62000	60000	50000	45000	40000	35000	30000				8.0
9.0	54000	54000	54000	54000	45500	42000	37000	33000	28500	24000			9.0
10.0	47000	47000	47000	47000	41500	39000	35000	31000	27000	23000	18000		10.0
11.0		40500	40500	40500	38500	36000	32500	29000	25500	22000	18000	15000	11.0
12.0		34500	34500	35200	34800	33000	30000	27000	24000	21000	18000	14500	12.0
14.0		26500	26500	27200	26700	27700	27000	24000	22000	20000	17000	13900	14.0
16.0			20500	21500	21000	22000	23000	21200	20000	18000	15800	13200	16.0
18.0			16500	17500	17000	18000	18900	19000	18000	16000	14500	12400	18.0
20.0				14300	14000	14800	15700	15800	16300	14500	13300	11500	20.0
22.0				12000	11500	12400	13300	13400	13700	13500	12200	10500	22.0
24.0					9500	10400	11300	11400	11700	12200	11300	9500	24.0
26.0					8000	8800	9600	9700	10100	10500	10500	8500	26.0
28.0						7400	8200	8300	8700	9100	9600	8000	28.0
30.0						6300	7100	7200	7500	7900	8400	7500	30.0
32.0							6100	6200	6500	6900	7400	7000	32.0

34.0							5200	5300	5600	6000	6500	6600	34.0	
36.0								4500	4800	5200	5700	5700	36.0	
38.0								3800	4100	4500	5000	5000	38.0	
40.0									3500	3900	4400	4500	40.0	
42.0										3300	3800	3900	42.0	
44.0										2800	3300	3400	44.0	
46.0											2800	2900	46.0	
48.0											2400	2500	48.0	
50.0												2100	50.0	
52.0												1700	52.0	
54.0													54.0	
Reevings	14	14	12	10	8	7	5	4	4	3	2	2	Reevings	
Hook	110 t hook				70 t hook					27 t hook			Hook	
Telescoping mode I	**1**	**1**	**2**	**2**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**4**	**I**	Telescoping mode
Telescoping mode II	**1**	**2**	**2**	**2**	**2**	**2**	**2**	**3**	**3**	**3**	**3**	**4**	**II**	Telescoping mode
Telescoping mode III	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**2**	**3**	**3**	**3**	**4**	**III**	Telescoping mode
Telescoping mode IV	**1**	**1**	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**3**	**3**	**4**	**IV**	Telescoping mode
Telescoping mode V	**1**	**1**	**1**	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**3**	**4**	**V**	Telescoping mode

Note:

Under the rated lifting capacities highlighted in grey, the 150 t hook should be applied. Thereinto, under the lifting capacities of 115 t and 125 t, 16 reevings should be applied; under the lifting capacity of 140 t, 18 reevings should be applied.

Table 3

Unit: Metric kg

Working radius (m)	Main boom (m)												Working radius (m)
	24 t counterweight, outriggers completely extended, over side and over rear												
	13.0	17.2	21.4	25.6	29.8	34.0	38.2	42.4	46.6	50.8	55.0	59.0	
3.0	130000	110000	98000										3.0
3.5	120000	110000	98000	83000									3.5
4.0	110000	110000	98000	83000	67000								4.0
4.5	100000	100000	95000	83000	67000	58000							4.5
5.0	95000	93000	92000	82000	65000	56000							5.0
5.5	87000	86000	85000	80000	63000	53000	43500						5.5
6.0	80000	80000	80000	78000	60000	50000	43500						6.0
7.0	68000	68000	68000	68000	54000	48000	43500	35000					7.0
8.0	58000	58000	58000	58000	50000	45000	40000	35000	30000				8.0
9.0	49000	49000	49000	49000	45500	42000	37000	33000	28500	24000			9.0
10.0	41000	41000	41000	41000	40000	39000	35000	31000	27000	23000	18000		10.0
11.0		34500	34200	35300	34900	36000	32500	29000	25500	22000	18000	15000	11.0
12.0		29500	29200	30300	29900	31200	30000	27000	24000	21000	18000	14500	12.0
14.0		22500	22200	23100	22700	23700	24900	24000	22000	20000	17000	13900	14.0
16.0			17200	18100	17700	18700	19800	19900	20000	18000	15800	13200	16.0
18.0			13700	14600	14200	15100	16000	16100	16500	16000	14500	12400	18.0
20.0				11800	11400	12300	13200	13300	13700	14200	13300	11500	20.0
22.0				9600	9300	10200	11100	11200	11500	12000	12200	10500	22.0
24.0					7500	8500	9300	9400	9700	10200	10600	9500	24.0
26.0					6100	7000	7800	7900	8200	8600	9000	8500	26.0
28.0						5800	6600	6700	7000	7400	7800	7900	28.0
30.0						4700	5600	5700	6000	6400	6800	6900	30.0

32.0							4700	4800	5000	5500	5900	6000	32.0	
34.0							3900	4000	4300	4700	5100	5200	34.0	
36.0								3300	3600	4000	4400	4500	36.0	
38.0								2700	2900	3400	3800	3900	38.0	
40.0									2400	2800	3300	3400	40.0	
42.0										2300	2800	2900	42.0	
44.0										1900	2300	2400	44.0	
46.0											1900	2000	46.0	
48.0												1600	48.0	
50.0													50.0	
52.0													52.0	
54.0													54.0	
Reevings	14	14	12	10	8	7	5	4	4	3	2	2	Reevings	
Hook	110 t hook				70 t hook					27 t hook			Hook	
Telescoping mode **I**	**1**	**1**	**2**	**2**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**4**	**I**	Telescoping mode
II	**1**	**2**	**2**	**2**	**2**	**2**	**2**	**3**	**3**	**3**	**3**	**4**	**II**	
III	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**2**	**3**	**3**	**3**	**4**	**III**	
IV	**1**	**1**	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**3**	**3**	**4**	**IV**	
V	**1**	**1**	**1**	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**3**	**4**	**V**	

Note:

Under the rated lifting capacities highlighted in grey, the 150 t hook and 16 reevings should be applied.

Table 4

Unit: Metric kg

Working radius (m)	Main boom (m)												Working radius (m)
	10 t counterweight, outriggers completely extended, over side and over rear												
	13.0	17.2	21.4	25.6	29.8	34.0	38.2	42.4	46.6	50.8	55.0	59.0	
3.0	130000	110000	98000										3.0
3.5	120000	110000	98000	83000									3.5
4.0	110000	100000	94000	83000	67000								4.0
4.5	100000	93000	90000	81000	67000	58000							4.5
5.0	90000	86000	84000	79000	65000	56000							5.0
5.5	80000	80000	78000	77000	63000	53000	43500						5.5
6.0	75000	75000	75000	75000	60000	50000	43500						6.0
7.0	62000	62000	62000	62000	54000	48000	43500	35000					7.0
8.0	47000	47000	46500	47000	47000	45000	40000	35000	30000				8.0
9.0	37000	37000	36700	37000	37000	38000	37000	33000	28500	24000			9.0
10.0	30000	30000	29700	30500	30500	31500	32500	31000	27000	23000	18000		10.0
11.0		24900	24800	26000	25200	26600	27600	27800	25500	22000	18000	15000	11.0
12.0		21000	20800	21900	21400	22500	23700	23800	24000	21000	18000	14500	12.0
14.0		15300	15200	16200	15800	16800	17800	18000	18300	18600	17000	13900	14.0
16.0			11300	12400	11900	12800	13800	14000	14300	14700	15200	13200	16.0
18.0			8500	9600	9100	10000	11000	11100	11400	11800	12300	12400	18.0
20.0				7400	7000	7900	8800	8900	9200	9600	10000	10100	20.0
22.0				5700	5300	6200	7000	7100	7400	7900	8300	8400	22.0
24.0					3900	4800	5600	5700	6000	6500	6900	7000	24.0
26.0					2800	3700	4500	4600	4900	5300	5800	5900	26.0
28.0						2700	3500	3600	3900	4300	4800	4900	28.0
30.0							2700	2800	3100	3500	4000	4100	30.0

32.0								2100	2400	2800	3300	3400	32.0	
34.0									1800	2200	2700	2800	34.0	
36.0										1700	2100	2200	36.0	
38.0											1600	1700	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	
Reevings		14	14	12	10	8	7	5	4	4	3	2	2	Reevings	
Hook		110 t hook				70 t hook					27 t hook			Hook	
Telescoping mode	**I**	**1**	**1**	**2**	**2**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**4**	**I**	Telescoping mode
	II	**1**	**2**	**2**	**2**	**2**	**2**	**2**	**3**	**3**	**3**	**3**	**4**	**II**	
	III	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**2**	**3**	**3**	**3**	**4**	**III**	
	IV	**1**	**1**	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**3**	**3**	**4**	**IV**	
	V	**1**	**1**	**1**	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**3**	**4**	**V**	

Note:

Under the rated lifting capacities highlighted in grey, the 150 t hook and 16 reevings should be applied.

Table 5

Unit: Metric kg

Working radius (m)	Main boom (m)												Working radius (m)
	0 t counterweight, outriggers completely extended, over side and over rear												
	13.0	17.2	21.4	25.6	29.8	34.0	38.2	42.4	46.6	50.8	55.0	59.0	
3.0	125000	110000	98000										3.0
3.5	115000	110000	98000	83000									3.5
4.0	105000	100000	94000	83000	67000								4.0
4.5	95000	93000	90000	81000	67000	58000							4.5
5.0	85000	85000	84000	79000	65000	56000							5.0
5.5	75000	75000	75000	75000	63000	53000	43500						5.5
6.0	65000	65000	65000	65000	60000	50000	43500						6.0
7.0	47500	48000	47700	48700	47900	47000	41500	35000					7.0
8.0	35500	36000	35700	36700	36200	36400	36600	32500	28000				8.0
9.0	27500	28000	27800	28800	28200	29300	29600	29100	26500	23000			9.0
10.0	22000	22500	22300	23300	22600	23800	24600	24000	24000	22000	17000		10.0
11.0		18400	18200	19200	18500	19700	20600	20300	20400	20400	16000	14000	11.0
12.0		15200	15000	16000	15500	16500	17500	17400	17500	17700	15000	13000	12.0
14.0		10700	10500	11500	11000	11900	12900	13000	13200	13600	14000	12000	14.0
16.0			7500	8500	7900	8800	9800	9900	10100	10500	10900	11000	16.0
18.0			5200	6200	5700	6500	7500	7600	7800	8200	8600	8700	18.0
20.0				4400	3900	4800	5700	5800	6000	6400	6800	6900	20.0
22.0				3000	2600	3500	4300	4400	4600	5000	5400	5500	22.0
24.0						2400	3200	3300	3500	3900	4300	4300	24.0
26.0							2300	2400	2600	3000	3400	3400	26.0
28.0									1800	2200	2600	2600	28.0
30.0											2000	2000	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	
Reevings	14	14	12	10	8	7	5	4	4	3	2	2	Reevings	
Hook	110 t hook				70 t hook					27 t hook			Hook	
Telescoping mode I	**1**	**1**	**2**	**2**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**4**	**I**	Telescoping mode
Telescoping mode II	**1**	**2**	**2**	**2**	**2**	**2**	**2**	**3**	**3**	**3**	**3**	**4**	**II**	Telescoping mode
Telescoping mode III	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**2**	**3**	**3**	**3**	**4**	**III**	Telescoping mode
Telescoping mode IV	**1**	**1**	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**3**	**3**	**4**	**IV**	Telescoping mode
Telescoping mode V	**1**	**1**	**1**	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**3**	**4**	**V**	Telescoping mode

Note:

Under the rated lifting capacities highlighted in grey, the 150 t hook and 16 reevings should be applied.

Table 6

Unit: Metric kg

Working radius (m)	Main boom (m)												Working radius (m)
	45 t counterweight, outriggers intermediately extended, over side and over rear												
	13.0	17.2	21.4	25.6	29.8	34.0	38.2	42.4	46.6	50.8	55.0	59.0	
3.0	140000	110000	98000										3.0
3.5	125000	110000	98000	83000									3.5
4.0	115000	110000	98000	83000	67000								4.0
4.5	105000	105000	95000	83000	67000	58000							4.5
5.0	98000	98000	92000	82000	65000	56000							5.0
5.5	91000	91000	87000	80000	63000	53000	43500						5.5
6.0	84000	84000	83000	78000	60000	50000	43500						6.0
7.0	70000	70000	70000	68000	54000	48000	43500	35000					7.0
8.0	60000	60000	60000	60000	50000	45000	40000	35000	30000				8.0
9.0	52000	52000	52000	52000	45500	42000	37000	33000	28500	24000			9.0
10.0	45000	45000	45000	45000	41500	39000	35000	31000	27000	23000	18000		10.0
11.0		40000	40000	40000	38500	36000	32500	29000	25500	22000	18000	15000	11.0
12.0		36000	35500	36000	35000	33000	30000	27000	24000	21000	18000	14500	12.0
14.0		27500	27500	28500	27500	28000	26500	24000	22000	20000	17000	13900	14.0
16.0			22000	23000	22500	23000	23600	21400	20000	18000	15800	13200	16.0
18.0			17500	18500	18000	19000	19700	19200	18000	16000	14500	12400	18.0
20.0				15500	15000	16000	16700	16600	16300	14500	13300	11500	20.0
22.0				13000	12500	13500	14200	14200	14400	13500	12200	10500	22.0
24.0					10500	11500	12100	12200	12500	12500	11300	9500	24.0
26.0					8700	9700	10400	10500	10800	11200	10500	8500	26.0
28.0						8200	9000	9100	9400	9800	9800	8000	28.0
30.0						7000	7800	7900	8200	8600	9000	7500	30.0

32.0							6700	6800	7100	7500	8000	7000	32.0	
34.0							5800	5900	6200	6600	7100	6600	34.0	
36.0								5100	5400	5800	6300	6200	36.0	
38.0								4400	4700	5100	5500	5400	38.0	
40.0									4000	4400	4900	4800	40.0	
42.0										3800	4300	4200	42.0	
44.0										3300	3800	3700	44.0	
46.0											3300	3300	46.0	
48.0											2900	2800	48.0	
50.0												2400	50.0	
52.0												2000	52.0	
54.0													54.0	
Reevings	14	14	12	10	8	7	5	4	4	3	2	2	Reevings	
Hook	110 t hook				70 t hook					27 t hook			Hook	
Telescoping mode I	**1**	**1**	**2**	**2**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**4**	**I**	Telescoping mode
Telescoping mode II	**1**	**2**	**2**	**2**	**2**	**2**	**2**	**3**	**3**	**3**	**3**	**4**	**II**	Telescoping mode
Telescoping mode III	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**2**	**3**	**3**	**3**	**4**	**III**	Telescoping mode
Telescoping mode IV	**1**	**1**	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**3**	**3**	**4**	**IV**	Telescoping mode
Telescoping mode V	**1**	**1**	**1**	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**3**	**4**	**V**	Telescoping mode

Note:

Under the rated lifting capacities highlighted in grey, the 150 t hook should be applied. Thereinto, under the lifting capacities of 115 t and 125 t, 16 reevings should be applied; under the lifting capacity of 140 t, 18 reevings should be applied.

Table 7

Unit: Metric kg

Working radius (m)	Main boom (m)												Working radius (m)
	32 t counterweight, outriggers intermediately extended, over side and over rear												
	13.0	17.2	21.4	25.6	29.8	34.0	38.2	42.4	46.6	50.8	55.0	59.0	
3.0	130000	110000	98000										3.0
3.5	120000	110000	98000	83000									3.5
4.0	110000	110000	98000	83000	67000								4.0
4.5	100000	100000	95000	83000	67000	58000							4.5
5.0	92000	92000	92000	82000	65000	56000							5.0
5.5	85000	85000	85000	80000	63000	53000	43500						5.5
6.0	78000	78000	78000	78000	60000	50000	43500						6.0
7.0	65000	65000	65000	65000	54000	48000	43500	35000					7.0
8.0	53000	53000	53000	53000	50000	45000	40000	35000	30000				8.0
9.0	44000	44000	44000	44000	43000	42000	37000	33000	28500	24000			9.0
10.0	37000	37000	37000	37000	36500	36500	35000	31000	27000	23000	18000		10.0
11.0		33000	32500	32500	32000	32000	32200	29000	25500	22000	18000	15000	11.0
12.0		28500	28000	28500	27500	28000	28500	27000	24000	21000	18000	14500	12.0
14.0		21500	21500	22300	21300	22000	22600	22400	22000	20000	17000	13900	14.0
16.0			16500	17500	17000	17600	18400	18200	18400	18000	15800	13200	16.0
18.0			13000	14000	13500	14300	15200	15100	15300	16000	14500	12400	18.0
20.0				11300	11000	11800	12600	12500	12900	13100	13300	11500	20.0
22.0				9300	8900	9800	10600	10700	10900	11200	11600	10500	22.0
24.0					7200	8100	8900	9000	9300	9700	10000	9500	24.0
26.0					5800	6700	7500	7600	7900	8300	8600	8500	26.0
28.0						5500	6300	6400	6700	7100	7500	7400	28.0
30.0						4500	5300	5400	5600	6100	6500	6400	30.0

32.0							4400	4500	4800	5200	5700	5600	32.0	
34.0							3600	3700	4000	4400	4900	4800	34.0	
36.0								3100	3300	3700	4200	4100	36.0	
38.0								2500	2700	3100	3600	3500	38.0	
40.0									2200	2600	3000	2900	40.0	
42.0										2100	2500	2400	42.0	
44.0											2100	2000	44.0	
46.0												1700	46.0	
48.0													48.0	
50.0													50.0	
52.0													52.0	
54.0													54.0	
Reevings	14	14	12	10	8	7	5	4	4	3	2	2	Reevings	
Hook	110 t hook				70 t hook					27 t hook			Hook	
Telescoping mode I	**1**	**1**	**2**	**2**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**4**	**I**	Telescoping mode
Telescoping mode II	**1**	**2**	**2**	**2**	**2**	**2**	**2**	**3**	**3**	**3**	**3**	**4**	**II**	Telescoping mode
Telescoping mode III	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**2**	**3**	**3**	**3**	**4**	**III**	Telescoping mode
Telescoping mode IV	**1**	**1**	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**3**	**3**	**4**	**IV**	Telescoping mode
Telescoping mode V	**1**	**1**	**1**	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**3**	**4**	**V**	Telescoping mode

Note:

Under the rated lifting capacities highlighted in grey, the 150 t hook should be applied. Thereinto, under the lifting capacities of 120 t and 130 t, 16 reevings should be applied.

Table 8

Unit: Metric kg

Working radius (m)	Main boom (m)												Working radius (m)
	24 t counterweight, outriggers intermediately extended, over side and over rear												
	13.0	17.2	21.4	25.6	29.8	34.0	38.2	42.4	46.6	50.8	55.0	59.0	
3.0	130000	110000	98000										3.0
3.5	120000	110000	98000	83000									3.5
4.0	110000	110000	98000	83000	67000								4.0
4.5	100000	100000	95000	83000	67000	58000							4.5
5.0	90000	90000	90000	82000	65000	56000							5.0
5.5	80000	80000	80000	80000	63000	53000	43500						5.5
6.0	72000	72000	72000	72000	60000	50000	43500						6.0
7.0	59000	59000	58000	57000	54000	48000	43500	35000					7.0
8.0	47000	47000	46500	46000	44000	44000	40000	35000	30000				8.0
9.0	38000	38000	38000	38000	36500	37000	37000	33000	28500	24000			9.0
10.0	32000	32000	32000	32000	31000	31500	31500	31000	27000	23000	18000		10.0
11.0		28000	27000	27500	26500	27000	27500	27000	25500	22000	18000	15000	11.0
12.0		23500	23500	24000	23000	23500	24000	23700	23900	21000	18000	14500	12.0
14.0		17500	17500	18500	17500	18200	19000	18700	18900	19100	17000	13900	14.0
16.0			13500	14500	13700	14500	15200	15100	15200	15600	15800	13200	16.0
18.0			10300	11200	10700	11600	12500	12400	12500	12900	13200	12400	18.0
20.0				8800	8700	9300	10200	10100	10300	10700	11200	11300	20.0
22.0				7000	6600	7500	8300	8400	8600	9000	9500	9600	22.0
24.0					5100	6000	6800	6900	7200	7600	8100	8200	24.0
26.0					3800	4700	5600	5700	6000	6400	6900	7000	26.0
28.0						3700	4600	4700	5000	5400	5900	6000	28.0
30.0						2800	3700	3800	4100	4500	5000	5100	30.0

32.0							3000	3100	3300	3700	4200	4300	32.0	
34.0							2300	2400	2600	3000	3500	3600	34.0	
36.0									2000	2400	2900	3000	36.0	
38.0										1900	2400	2500	38.0	
40.0											1900	2000	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	
Reevings	14	14	12	10	8	7	5	4	4	3	2	2	Reevings	
Hook	110 t hook				70 t hook					27 t hook			Hook	
Telescoping mode I	**1**	**1**	**2**	**2**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**4**	**I**	Telescoping mode
Telescoping mode II	**1**	**2**	**2**	**2**	**2**	**2**	**2**	**3**	**3**	**3**	**3**	**4**	**II**	Telescoping mode
Telescoping mode III	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**2**	**3**	**3**	**3**	**4**	**III**	Telescoping mode
Telescoping mode IV	**1**	**1**	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**3**	**3**	**4**	**IV**	Telescoping mode
Telescoping mode V	**1**	**1**	**1**	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**3**	**4**	**V**	Telescoping mode

Note:

Under the rated lifting capacities highlighted in grey, the 150 t hook should be applied. Thereinto, under the lifting capacities of 120 t and 130 t, 16 reevings should be applied.

Table 9

Unit: Metric kg

Working radius (m)	Main boom (m)												Working radius (m)
	10 t counterweight, outriggers intermediately extended, over side and over rear												
	13.0	17.2	21.4	25.6	29.8	34.0	38.2	42.4	46.6	50.8	55.0		
3.0	120000	110000	98000										3.0
3.5	110000	110000	98000	83000									3.5
4.0	100000	100000	94000	83000	67000								4.0
4.5	90000	90000	90000	81000	67000	58000							4.5
5.0	80000	80000	79000	79000	65000	56000							5.0
5.5	70000	70000	70000	70000	61000	53000	43500						5.5
6.0	59000	58000	54500	54000	50000	49500	43500						6.0
7.0	44000	43500	41000	41000	39000	38700	38700	35000					7.0
8.0	34000	33500	32500	32500	31000	31200	31500	30800	28000				8.0
9.0	27000	27000	26000	26500	25000	25500	26000	25700	25500	23000			9.0
10.0	22000	22000	21500	22000	21000	21500	22000	21800	22000	22000	17000		10.0
11.0		18500	17800	18500	17500	18200	18900	18700	18800	19000	16000		11.0
12.0		15300	14900	15700	15000	15700	16400	16200	16300	16500	15000		12.0
14.0		10900	10600	11600	11000	11700	12500	12400	12600	12800	13200		14.0
16.0			7500	8500	8100	8900	9700	9600	9800	10100	10600		16.0
18.0			5200	6200	5900	6800	7600	7500	7700	8100	8500		18.0
20.0				4500	4200	5100	5900	5800	6200	6500	6900		20.0
22.0				3200	2800	3700	4500	4500	4800	5200	5600		22.0
24.0					1700	2600	3400	3400	3700	4100	4500		24.0
26.0						1600	2500	2500	2800	3200	3600		26.0
28.0							1700	1700	2000	2400	2800		28.0
30.0										1700	2100		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	
Reevings	14	14	12	10	8	7	5	4	4	3	2		Reevings	
Hook	110 t hook				70 t hook					27 t hook			Hook	
Telescoping mode	**I**	**1**	**1**	**2**	**2**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**4**	**I**	Telescoping mode
	II	**1**	**2**	**2**	**2**	**2**	**2**	**2**	**3**	**3**	**3**	**3**	**4**	**II**	
	III	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**2**	**3**	**3**	**3**	**4**	**III**	
	IV	**1**	**1**	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**3**	**3**	**4**	**IV**	
	V	**1**	**1**	**1**	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**3**	**4**	**V**	

Note:

Under the rated lifting capacities highlighted in grey, the 150 t hook should be applied. Thereinto, under the lifting capacities of 120 t, 16 reevings should be applied.

Table 10

Unit: Metric kg

59 m main boom, 45 t counterweight, outriggers completely extended, over side and over rear							
Boom angle (º)	Main boom (m) + jib (m)						Boom angle (º)
	59.0 + 11.0		59.0 + 18.6		59.0 + 26.6		
	Offset (º)						
	0	30	0	30	0	30	
82	8000	4500	5000	2500	3000	1500	82
80	7800	4400	4600	2400	3000	1450	80
78	7400	4300	4300	2350	3000	1400	78
76	7000	4200	4000	2300	2900	1350	76
74	6600	4100	3700	2250	2600	1300	74
72	6200	4000	3400	2200	2400	1250	72
70	5700	3800	3200	2150	2200	1200	70
68	5200	3600	3000	2100	2100	1150	68
66	4900	3400	2800	2000	1900	1100	66
64	4700	3200	2700	1950	1750	1050	64
62	4500	3000	2600	1900	1650	1000	62
60	4300	2900	2500	1850	1550	950	60
58	4100	2800	2400	1800	1450	900	58
56	3800	2700	2300	1750	1350		56
54	3600	2600	2200	1700	1250		54
52	3400	2500	2100	1650	1200		52
50	3200	2400	2000	1600	1150		50
45	2700	2300	1800	1550	1000		45
40	2300	2100	1700	1500	900		40
35	1900	1700	1500	1300			35

30	1600	1400	1200	1000			30
Reevings	1						Reevings
Hook	9 t hook						Hook

Table 11

Unit: Metric kg

59 m main boom, 32 t counterweight, outriggers completely extended, over side and over rear							
Boom angle (º)	Main boom (m) + jib (m)						Boom angle (º)
	59.0 ＋ 11.0		59.0 ＋ 18.6		59.0 ＋ 26.6		
	Offset (º)						
	0	30	0	30	0	30	
82	8000	4500	5000	2500	3000	1500	82
80	7800	4400	4600	2400	3000	1450	80
78	7400	4300	4300	2350	3000	1400	78
76	7000	4200	4000	2300	2900	1350	76
74	6600	4100	3700	2250	2600	1300	74
72	6200	4000	3400	2200	2400	1250	72
70	5700	3800	3200	2150	2200	1200	70
68	5200	3600	3000	2100	2100	1150	68
66	4900	3400	2800	2000	1900	1100	66
64	4700	3200	2700	1950	1750	1050	64
62	4400	3000	2600	1900	1650	1000	62
60	4100	2900	2500	1850	1550	950	60
58	3900	2800	2400	1800	1450	900	58
56	3500	2700	2300	1750	1350		56
54	3100	2600	2200	1700	1250		54
52	2800	2400	2100	1650	1200		52
50	2500	2200	2000	1550	1100		50
45	1800	1600	1400	1200	900		45
40	1200	1100	1000	900			40
35							35

30							30
Reevings	1						Reevings
Hook	9 t hook						Hook

Table 12

Unit: Metric kg

59 m main boom, 24 t counterweight, outriggers completely extended, over side and over rear							
Boom angle (º)	Main boom (m) + jib (m)						Boom angle (º)
	59.0 + 11.0		59.0 + 18.6		59.0 + 26.6		
	Offset (º)						
	0	30	0	30	0	30	
82	8000	4500	5000	2500	3000	1500	82
80	7800	4400	4600	2400	3000	1450	80
78	7400	4300	4300	2350	3000	1400	78
76	7000	4200	4000	2300	2900	1350	76
74	6600	4100	3700	2250	2600	1300	74
72	6200	4000	3400	2200	2400	1250	72
70	5700	3800	3200	2150	2200	1200	70
68	5400	3700	3000	2100	2100	1150	68
66	5000	3600	2800	2000	1900	1100	66
64	4300	3400	2700	1950	1750	1050	64
62	3700	3200	2600	1900	1650	1000	62
60	3300	3100	2500	1850	1550	950	60
58	3000	2700	2400	1800	1450	900	58
56	2600	2400	2200	1750	1300		56
54	2300	2000	1900	1600	1200		54
52	2000	1700	1600	1400	1000		52
50	1700	1500	1300	1150			50
45	1100	900					45
40							40
35							35

30							30
Reevings	1						Reevings
Hook	9 t hook						Hook

Table 13

Unit: Metric kg

59 m main boom, 10 t counterweight, outriggers completely extended, over side and over rear							
Boom angle (º)	Main boom (m) + jib (m)						Boom angle (º)
	59.0 ＋ 11.0		59.0 ＋ 18.6		59.0 ＋ 26.6		
	Offset (º)						
	0	30	0	30	0	30	
82	8000	4500	5000	2500	3000	1500	82
80	7800	4400	4600	2400	3000	1450	80
78	7400	4300	4300	2350	3000	1400	78
76	7000	4200	4000	2300	2900	1350	76
74	6700	4100	3700	2250	2600	1300	74
72	5800	4000	3400	2200	2400	1250	72
70	4900	3800	3200	2150	2200	1200	70
68	4100	3300	3000	2100	2100	1150	68
66	3300	2800	2700	2000	1900	1100	66
64	2700	2400	2200	1800	1500	1050	64
62	2200	2000	1800	1500	1100	900	62
60	1800	1600	1400	1100			60
58	1400	1200	1000				58
56	1100	900					56
54							54
52							52
50							50
45							45
40							40
35							35

30							30
Reevings	1						Reevings
Hook	9 t hook						Hook

Table 14

Unit: Metric kg

59 m main boom, 45 t counterweight, outriggers intermediately extended, over side and over rear							
Boom angle (º)	Main boom (m) + jib (m)						Boom angle (º)
	59.0 ＋ 11.0		59.0 ＋ 18.6		59.0 ＋ 26.6		
	Offset (º)						
	0	30	0	30	0	30	
82	8000	4500	5000	2500	3000	1500	82
80	7800	4400	4600	2400	3000	1450	80
78	7400	4300	4300	2350	3000	1400	78
76	7000	4200	4000	2300	2900	1350	76
74	6600	4100	3700	2250	2600	1300	74
72	6200	4000	3400	2200	2400	1250	72
70	5700	3800	3200	2150	2200	1200	70
68	5200	3600	3000	2100	2100	1150	68
66	4900	3400	2800	2000	1900	1100	66
64	4700	3200	2700	1950	1750	1050	64
62	4500	3100	2600	1900	1650	1000	62
60	4200	3000	2500	1850	1550	950	60
58	3900	2900	2400	1800	1450	900	58
56	3600	2800	2300	1750	1350		56
54	3400	2700	2200	1700	1250		54
52	3000	2600	2100	1600	1200		52
50	2700	2500	2000	1500	1100		50
45	2000	1800	1600	1400	900		45
40	1500	1300	1100	1000			40
35	1000	900					35

30							30
Reevings	1						Reevings
Hook	9 t hook						Hook

Table 15

Unit: Metric kg

59 m main boom, 32 t counterweight, outriggers intermediately extended, over side and over rear							
Boom angle (º)	Main boom (m) + jib (m)						Boom angle (º)
	59.0 ＋ 11.0		59.0 ＋ 18.6		59.0 ＋ 26.6		
	Offset (º)						
	0	30	0	30	0	30	
82	8000	4500	5000	2500	3000	1500	82
80	7800	4400	4600	2400	3000	1450	80
78	7400	4300	4300	2350	3000	1400	78
76	7000	4200	4000	2300	2900	1350	76
74	6600	4100	3700	2250	2600	1300	74
72	6200	4000	3400	2200	2400	1250	72
70	5700	3800	3200	2150	2200	1200	70
68	5200	3700	3000	2100	2100	1150	68
66	4900	3500	2800	2000	1900	1100	66
64	4300	3400	2700	1950	1750	1050	64
62	3700	3300	2600	1900	1650	1000	62
60	3200	2900	2500	1850	1550	950	60
58	2800	2600	2300	1800	1400	900	58
56	2400	2200	2000	1700	1300		56
54	2000	1900	1700	1400	1100		54
52	1700	1600	1400	1200	900		52
50	1400	1300	1100	1000			50
45							45
40							40
35							35

30							30
Reevings	1						Reevings
Hook	9 t hook						Hook

Table 16

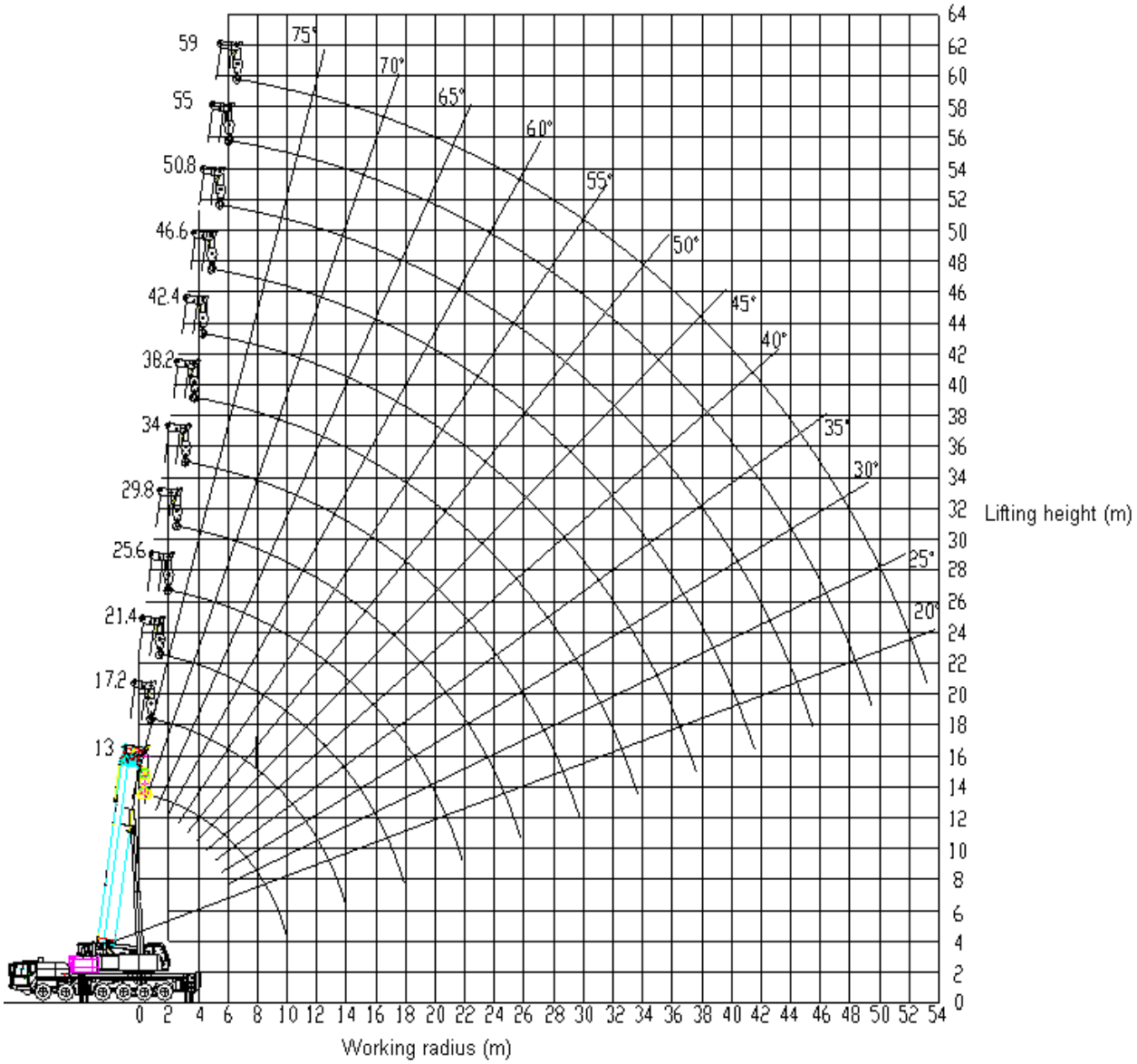
Unit: Metric kg

59 m main boom, 24 t counterweight, outriggers intermediately extended, over side and over rear							
Boom angle (°)	Main boom (m) + jib (m)						Boom angle (°)
	59.0 + 11.0		59.0 + 18.6		59.0 + 26.6		
	Offset (°)						
	0	30	0	30	0	30	
82	8000	4500	5000	2500	3000	1500	82
80	7800	4400	4600	2400	3000	1450	80
78	7400	4300	4300	2350	3000	1400	78
76	7000	4200	4000	2300	2900	1350	76
74	6600	4100	3700	2250	2600	1300	74
72	6000	4000	3400	2200	2400	1250	72
70	5300	3800	3200	2150	2200	1200	70
68	4500	3600	3000	2100	2100	1150	68
66	3800	3300	2800	2000	1900	1100	66
64	3200	2800	2600	1950	1700	1000	64
62	2700	2400	2200	1850	1500	950	62
60	2200	2000	1800	1600	1200	900	60
58	1800	1600	1500	1300	900		58
56	1400	1300	1200	1000			56
54	1100	1000	900				54
52							52
50							50
45							45
40							40
35							35

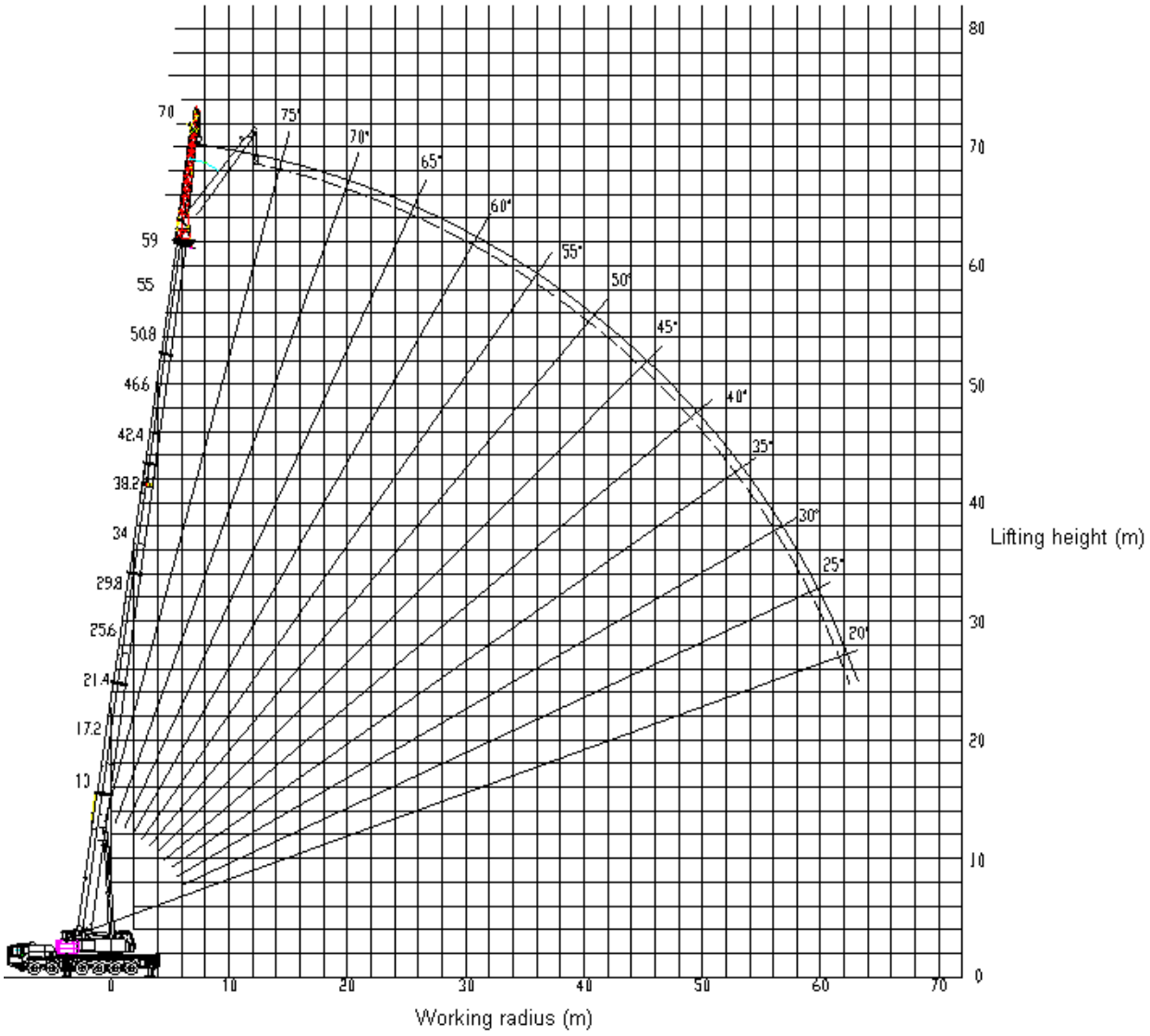
30							30
Reevings	1						Reevings
Hook	9 t hook						Hook

2.4 Lifting height chart

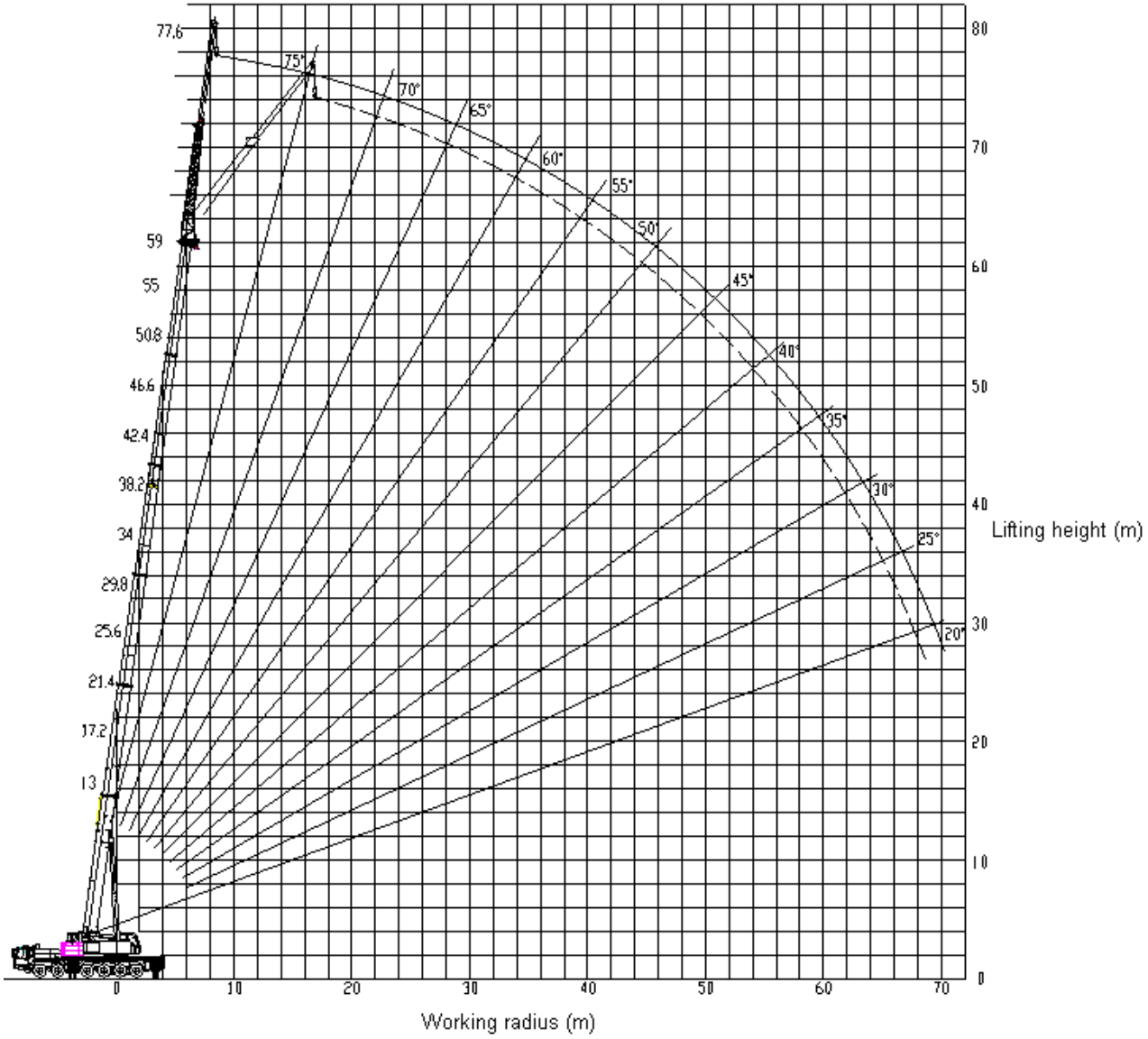
2.4.1 Main boom



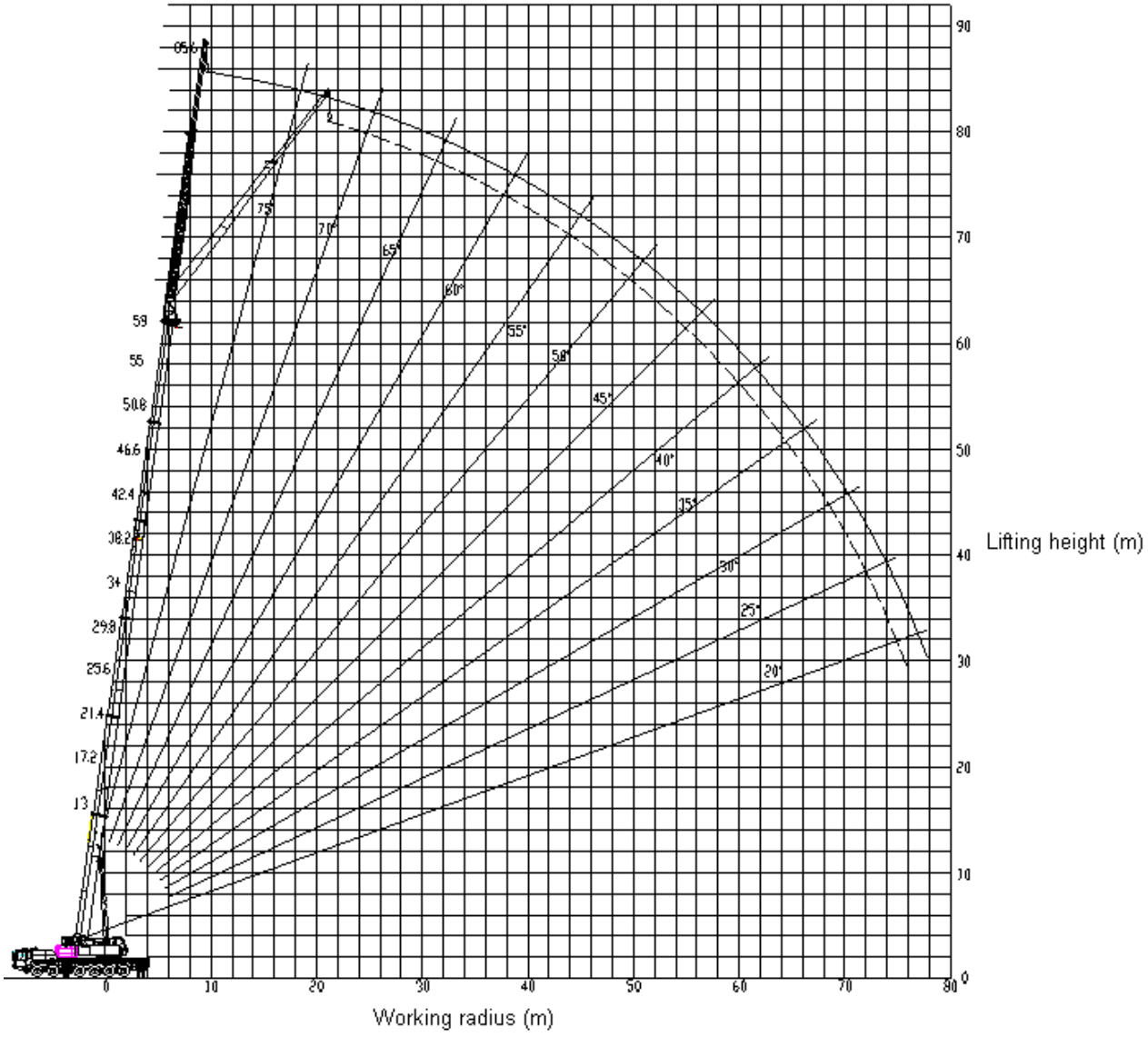
2.4.2 Main boom + 11 m jib (jib section 1)



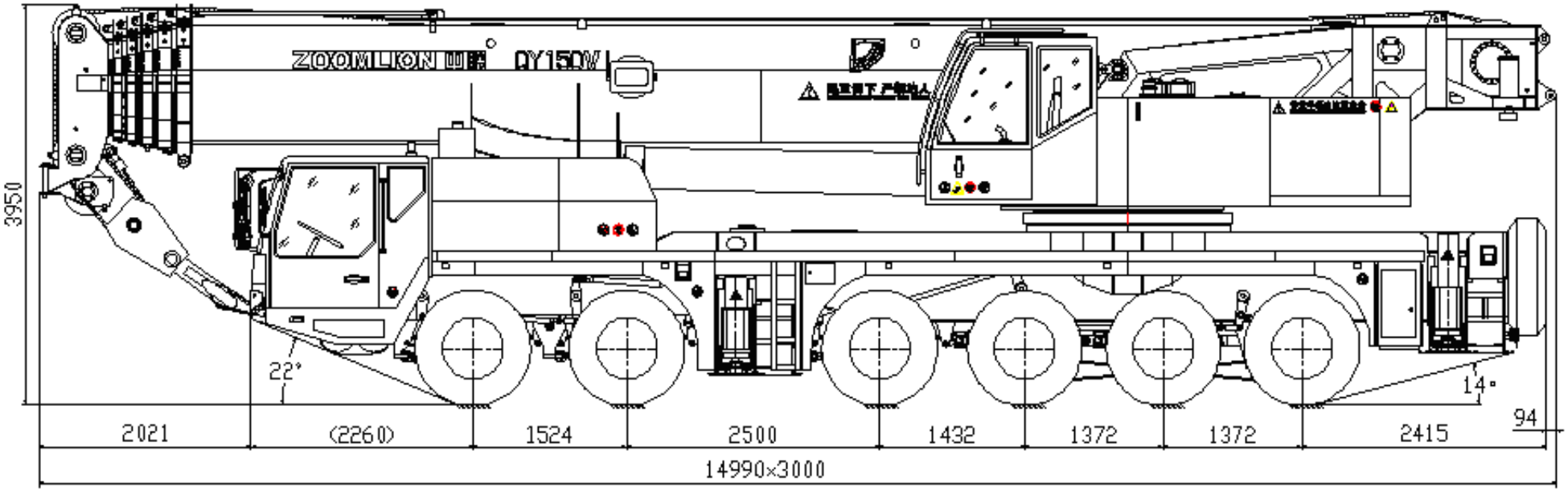
2.4.3 Main boom + 18.6 m jib (jib section 1 + jib section 2)



2.4.4 Main boom + 18.6 m jib (jib section 1 + jib section 2) + 8 m extension



2.5 Overall view (Unit: Metric mm)



3 Components, superstructure

3.1 Main boom and telescoping mechanism

The main boom consists of 6 oval boom sections made from high-strength structural steel (imported WELDOX960), providing the boom with super lifting capacity.

Basic number of reeving for pulley block at the boom head: 14

Max. number of reeving: 18 (with two additional pulleys)

The Max. lifting capacity for the main boom is 110 t with 14 reevings; The Max. lifting capacity for the main boom is 150 t with 18 reevings.

All telescopic sections are driven automatically by a telescopic cylinder and pinned mechanically, extendable sequentially.

3.2 Jib

The jib consists of two jib sections and one jib extension (optional). Jib section 1 is reducing and lattice structured, jib section 2 is constant and box structured and the jib extension is constant and lattice structured.

Jib section 2 can be pulled out from the jib section 1.

The jib can be assembled below an angle of 0° or 30° to the telescopic boom and can be pulled out from the jib section 1.

The jib cannot be attached with the vehicle during driving.

Jib lengths: 11 m (jib section 1), 18.6 m (jib section 1 + jib section 2), 26.6 m (jib section 1 + jib section 2 + jib extension)

3.3 Slewing table

The slewing table welded by high-strength structural steel (imported WELDOX 960E) has high structural strength and super bearing capacity.

The optimized design of the layout of 3 articulated points of main boom and derricking mechanism makes the stress distributed more reasonable and makes the slewing table in a novel style and beautiful figure.

The engine hood is of a human-based layout.

The securing device installed in the front of the slewing table can prevent the superstructure from slewing during driving.

3.4 Rooster sheave

It is inserted at the boom head of telescopic boom section 5 when it is used.

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

One front-mounted hydraulic cylinder with safety balance valve provides the boom with smooth derricking movements from -1.5° to 82°.

3.6 Slewing mechanism

Hydraulic motor + planetary reducer

Dual slewing mechanisms

2-row roller slewing ring provides big output torque and smooth slewing.

3.7 Hoist mechanism

Hydraulic motor + planetary reducer

It consists of two hoist mechanisms: main / auxiliary hoist mechanism which can be operated independently or simultaneously.

The models of main and auxiliary hoist winch reducer are the same. Main hoist mechanism is driven by a variable motor and auxiliary hoist mechanism is driven by a constant motor.

The main winch is installed with the lowering limit switch.

Diameter of high-strength torsion-resistant main / auxiliary hoist rope: Φ 21 mm

3.8 Main and auxiliary hook

4 main hooks.

The maximum lifting capacities in various reevings: 150 ton, 110 ton, 70 ton, 27 ton

Hooks of 150 ton (optional) and 110 ton are straight shank hooks with two points.

Hooks of 70 ton and 27 ton are straight shank hooks with one point.

One rotatable auxiliary hook (9 t) (one reeving), with hook safety device

3.9 Operator’s cab

New V-series cab in steel construction can be tilted backwards for 20° to broaden the operator’s field of vision.

With luxurious and comfortable furnishing and air conditioning.

3.10 Outriggers

H-type outrigger is with 2-section horizontal sliding beams and vertical outriggers. The 2-section sliding beams can be extended and retracted simultaneously via a horizontal cylinder and 1-stage extension / retraction rope for outriggers.

Sliding beams can be completely or intermediately extended.

Sliding beams with box-shaped sections are welded by high-strength steel (imported δs=960MPa).

A support control unit is attached to both sides of the vehicle for controlling the 4 sliding beams to extend and retract simultaneously or independently.

With sliding beam illumination, support control unit illumination and electronic inclinometer.

The 5th outrigger is installed beneath the driver's cab. The crane can realized 360° unlimited slewing with the 5th outrigger set up.

3.11 Hydraulic system

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

Open / closed variable system offers little hydraulic pressure loss, high working efficiency, accurate movements, stable working, stepless speed regulation, stable braking performance and high system reliability.

In addition, this crane is also of such functions as counterweight self-handling function and operator's cab tilting angle regulation.

3.12 Electrical system

Data bus technology adopted effectively decreases the utilization of cables and connections, thus the system reliability is improved and the maintenance is much more convenient.

This system is of such functions as 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, diagnosis and treatment.

Electron accelerator, easy for operation

GPS is optional.

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 digital 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 safety device

d) Lowering limit switch

e) Fault self-diagnosis system

f) The 5th outrigger overpressure protection device

g) Two-way hydraulic lock

h) Balance valve

i) Relief valve

3.14 Engine

6-cylinder in-line diesel, supercharging, intercooled, conforming to EURO III Standard.

Manufacturer: Mercedes – Benz

Performance: 190 kW at 2200rpm

Maximum torque: 1000 Nm at 1200 rpm

3.15 Air conditioning

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

3.16 Counterweight

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

Total weight: 45 ton.

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

Weight variants: 0 ton, 10 ton, 24 ton, 32 ton, 45 ton

3.17 Central lubricating system

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

4. Specifications, chassis

Chassis	Model		ZLJ5663	Code: ZLJ5663V3
	Type		II	
	Engine	Model	OM502LA	

		Rated power kW/r/min	390/1800
		Max. output torque N.m/r/min	2400/1080
	Manufacturer		Zoomlion Heavy Industry Science & Technology Co., Ltd.

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

Appendix

Table – Main purchased parts and manufacturers

Ser. No.	Description	Manufacturer	Remarks
1	Operator's cab assy.	Hubei Qixing Vehicle-Body Limited Company	
2	Engine, superstructure	MTU Asia (China) Co., Ltd.	
3	High pressure variable plunger pump units	Linde (Germany) (Beijing Hylet Hydraulic Engineering Technology Co., Ltd.)	
5	Slewing reducer	Shanghai Bosch Rexroth Hydraulics and Automation Ltd.	
		Tai'an Taishan Fushen GearBox Co., Ltd.	
6	Slewing motor	Shanghai Electric Hydraulics and Pneumatics Co., Ltd.	
8	Main / auxiliary winch reducer	Shanghai Bosch Rexroth Hydraulics and Automation Ltd.	
		Tai'an Taishan Fushen GearBox Co., Ltd.	
9	Main / auxiliary winch motor	Shanghai Bosch Rexroth Hydraulics and Automation Ltd.	
		Parker Hannifin Motion & Control (Shanghai) Co., Ltd.	
11	Telescopic cylinder	Hunan Teli Hydraulic Co., Ltd.	
12	Derricking cylinder	Hunan Teli Hydraulic Co., Ltd.	
13	Horizontal cylinder	Hunan Teli Hydraulic Co., Ltd.	
14	Vertical cylinder	Hunan Teli Hydraulic Co., Ltd.	
15	Main valve	Bucher Hydraulics Remscheid GMBH (Germany)	
16	Balance valve – telescoping mechanism	Bucher Hydraulics Remscheid GMBH (Germany)	
17	Balance valve – derricking mechanism	Bucher Hydraulics Remscheid GMBH (Germany)	
18	Balance valve – hoist mechanism	Bucher Hydraulics Remscheid GMBH (Germany)	
19	Electro-hydraulic proportional valve block II	HAWE Oil-Hydraulic Technology (Shanghai) Co., Ltd.	
20	Electro-hydraulic proportional valve block I	Bucher Hydraulics Remscheid GMBH (Germany)	
21	Load moment limiter	Hirschmann Electronics (Shanghai) Co., Ltd.	

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.