

XCR150 ROUGH TERRAIN CRANE

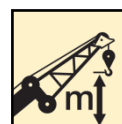
TECHNICAL SPECIFICATIONS



150t



64m



77.4m

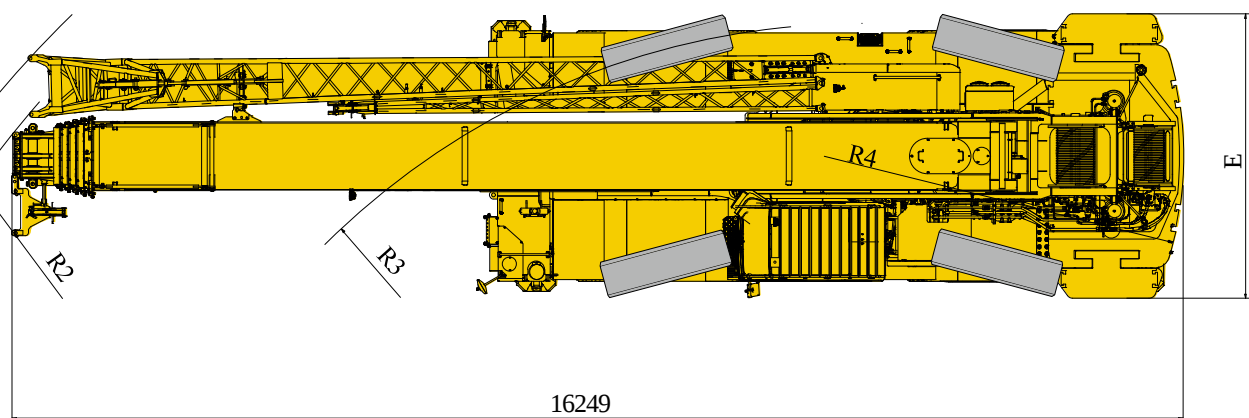
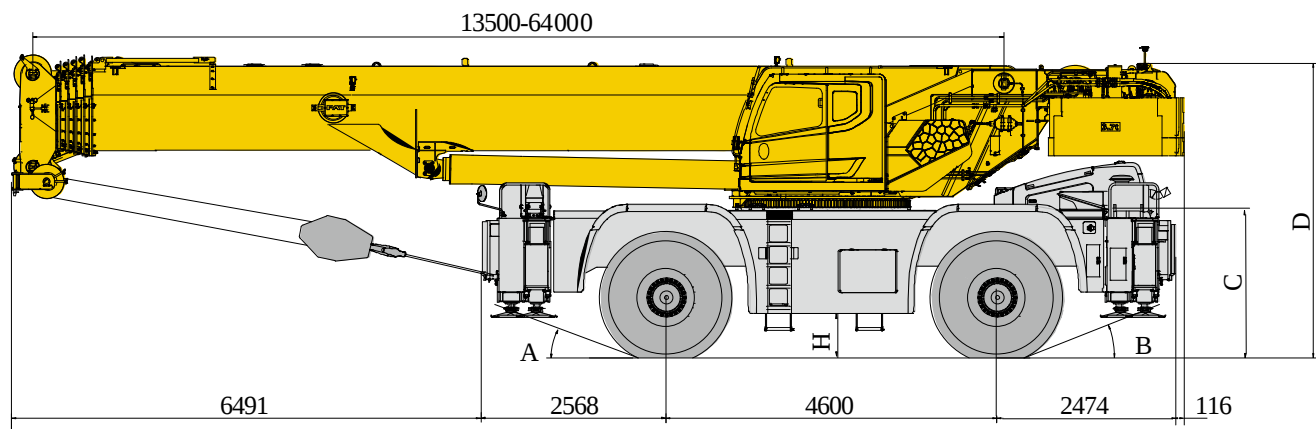


First edition, July 2023

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Dimensions



		A	B	C	D	E	H	R1	R2	R3	R4
875/65R29	20.6t	20.4°	21.5°	2050	4095	3480	506	13250	12760	9000	4990
875/65R29	20.6t+7.4t	20.4°	21.5°	2050	4095	3956	506	13250	12760	9000	4990

Technical specifications



Boom	The boom consists of one base section and five telescopic sections with U-type cross-section, and is extended and retracted by the single-cylinder pinning telescoping system. 6 sheaves on boom head are standard. Boom length: 13.5m~64m	●	Hydraulic system	The dual-variable piston pump is used for lifting, luffing and telescoping operations. The gear pump is used for slewing, outrigger, steering and braking operations. The main valve is adopted a load sensitive proportional multi-way change valve. Independent hydraulic oil cooler is fitted. Hydraulic oil tank capacity: about 1225 L.	●
Jib	2-section, lattice structure, with 0° , 15° and 30° jib offset angles available, stowed at the side of the boom. Jib length: 10.5m~17.5m.	●	Operating method	Electrically controlled operation system is equipped with two levers controlling the movements of the crane.	●
Frame	Made of high strength fine grained steel, welded torsion-resistant frame type construction with large cross-section, high load-bearing capacity.	●	Electrical system	24 V DC, two sets of 12 V battery in series. LMI, head lights, steering lights, reversing lights, turntable lights and boom lights are equipped.	●
Outriggers	4 outriggers are arranged in H shape, located at both sides of chassis frame, controlled by hydraulic valves and the cylinders are controlled by electric signals.	●	Main winch system	The system is driven by a hydraulic motor through a planetary gear reducer, with a normally closed brake and a balanced valve equipped.	●
Engine	QSL8.9-C295-30, in line six-cylinder water-cooled compression ignition diesel engine, manufactured by Dongfeng Cummins, with rated power of 220/2100 (kW/(r/min)) and max. output torque of 1350(1300-1600) (N.m/(r/min), compliant with off-road EU Stage IIIA emission standards. Effective capacity of fuel tank: about 305 L	●	Auxiliary winch system	The system is driven by a hydraulic motor through a planetary gear reducer, with a normally closed brake and a balanced valve equipped.	●
Transmission	Automatic transmission, 8 forward speeds and 3 reverse speed.	●	Slewing system	Single-row four-point ball contact slewing ring, driven by a hydraulic motor, with built-in planetary gear reducer and constant closed brake equipped.	●
Axles	Both front and rear axles for driving and steering, with large load bearing capacity.	●	Driver's cab	The tilting driver's cab is equipped with a sliding door and an adjustable seat. Safety glass, roof guardrails and sun shields for windshield and roof window are also available. Heater and air conditioner, radio and 12/24V power ports are configured.	●
Suspension system	Front axle is connected to the frame in the blocked state. The rear axle is attached to the swing-type hydraulic suspension. During highway driving operation, shock absorption function is activated, which buffers the road shock. When driving with a suspended load, rear suspension cylinder is locked to blocked state to enhance operation stability.	●	Safety devices	Hydraulic balanced valve, relief valve, double-way valve and LMI. Lowering limiter is equipped in winch to prevent rope over-releasing. Anti-two block is fitted on the boom head to prevent rope over-winding.	●
Tire	4 tires, each axle is equipped with single tire, large bearing capacity. Tire specifications: 875/65R29.	●	Counterweight	20.6t Counterweight slab A 7.4t Two counterweight slabs C	● ○
Steering system	Four steering modes include front axle independent steering mode, tight-turning radius mode, crab walk mode and rear axle independent steering mode. The steering angle can be self-adjusted when changing mode.	●	Hook block	110t hook block, 60t hook block and 7t hook block	●
Brake system	Service brake: automatically braking and warning are available when the pressure in braking system is too low. Parking brake: spring-loaded brake, acting on the front axle, hydraulic-released independent disc brake.	●	Product parts list is as mentioned above. Please refer to the product quotation for specific parts. Symbol explanation ● —— Standard configurations; ○ —— Optional configurations.		

Weight/working speed



Axle	1	2	Total weight
t	37.60	41.90	79.5 (20.6t counterweight)
	34.86	52.04	86.9 (20.6t counterweight + 7.4t counterweight)



Hook block	Parts of line	Hook weight	Remark
110t	12	1080	Dual hook
60t	6	470	Single hook block
7t	1	210	Single hook block

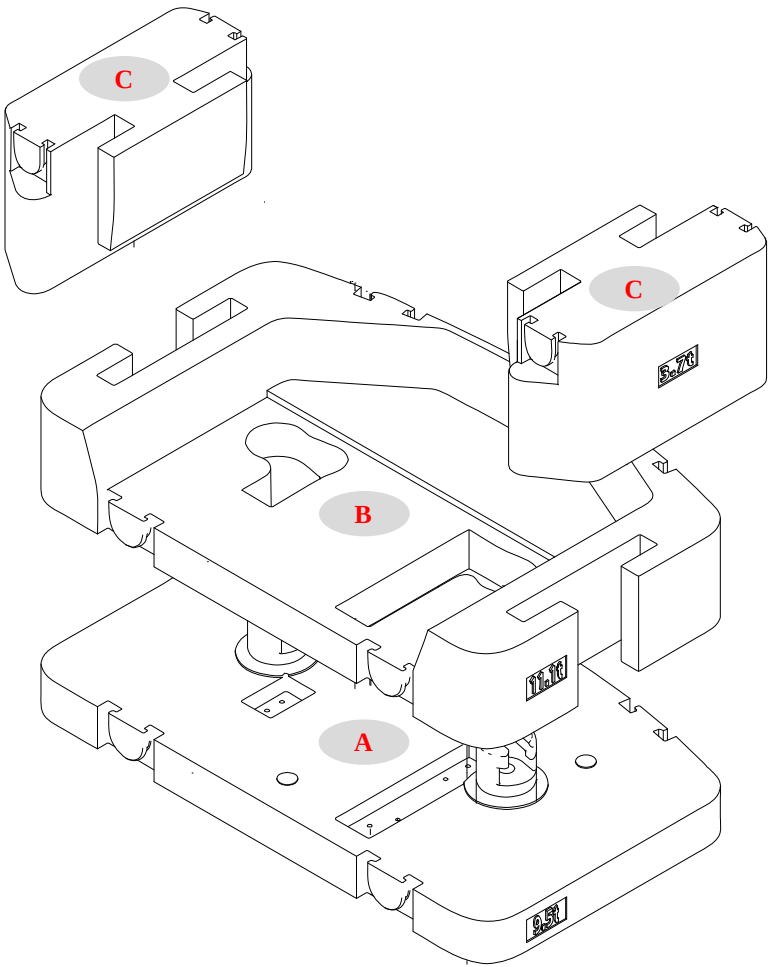


			Total weight
875/65R29	25	70%	79.5 (20.6t counterweight)
875/65R29	10	63%	86.9 (20.6t counterweight + 7.4t counterweight)



Operation mechanism	Working speed	Max. single line pull	Rope diameter/ length
	0-135 m/min, single line, no load, 4th layer	110kN	22mm/281m
	0-90 m/min, single line, no load, 4th layer	70kN	22mm/180m
	0-1.3 r/min		
	Approx. 60 s for boom luffing up from 0° to 80°		
	Approx. 435 s for boom extending from 13.5m to 64m		

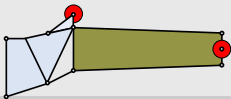
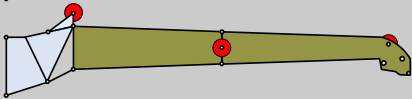
Counterweight

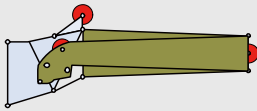


Counterweight	A	B	C
Dimensions (L×W×H) (mm)	3100×1875×245	3956×1875×550	1506×663×800
Weight (t)	9.5	11.1	3.7

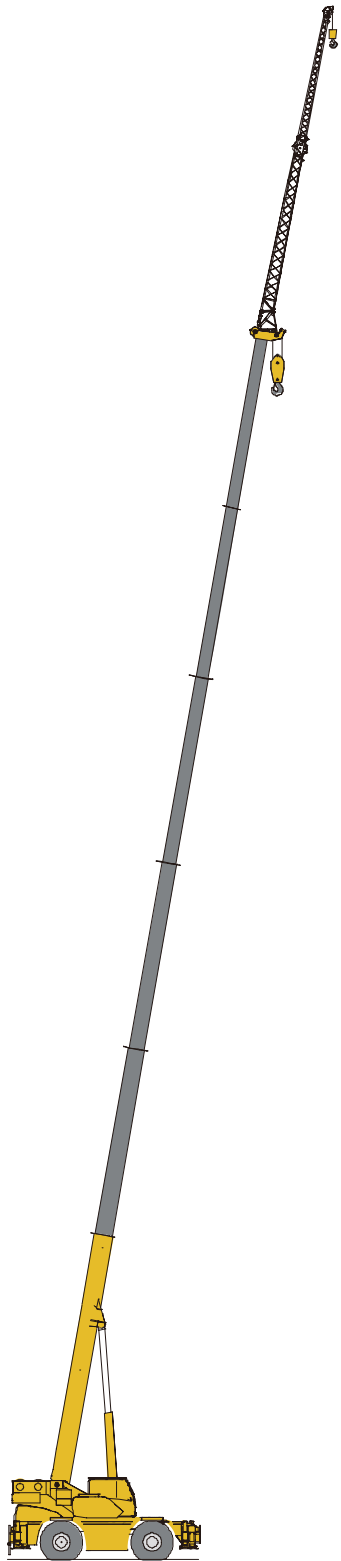
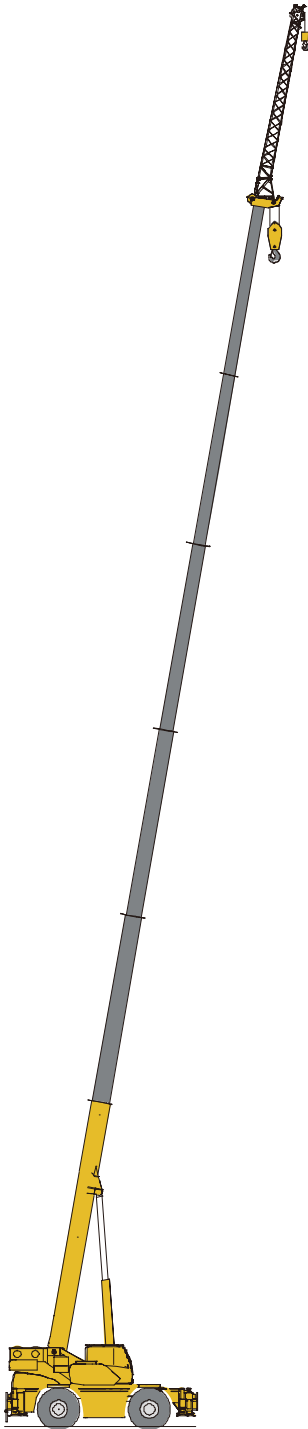
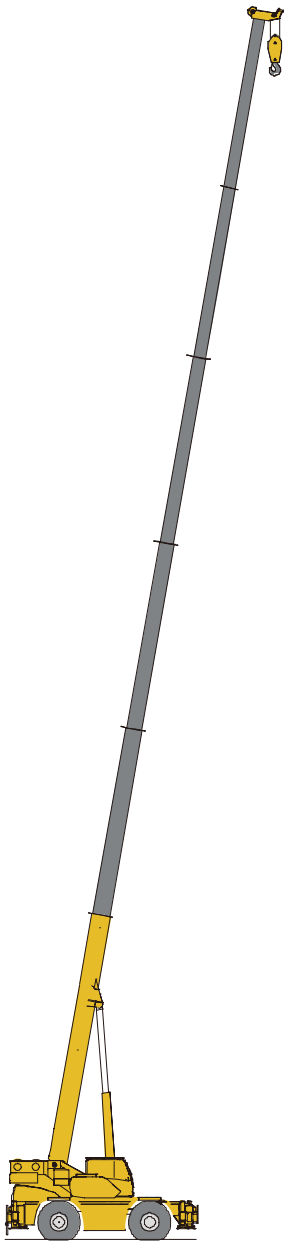
Operation mode	0t	20.6t	28t
Combinations	—	A+B	A+B+2C

Boom/ Jib combinations

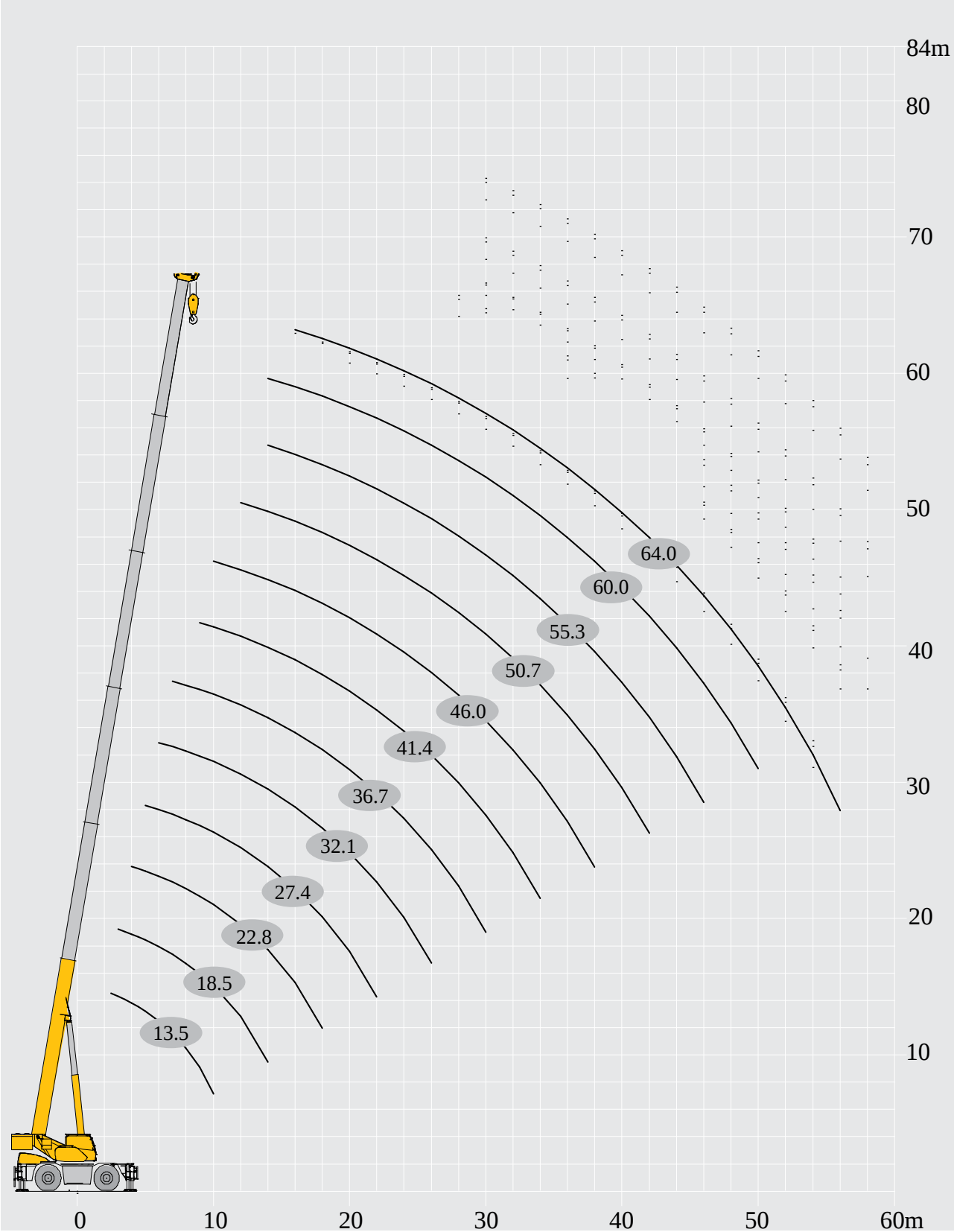
10.5m jib	
17.5m jib	

Components	Structure	Dimensions (L×W×H) (mm)	Weight (kg)
1st and 2nd jib section assembly + connecting bracket		Folding: 11052×874×1579	1326

Boom/ Jib combinations



Boom	Boom + 1st jib section	Boom + two jib sections
13.5~64m	64m+10.5m	64m+17.5m



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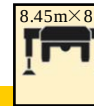
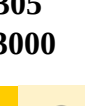
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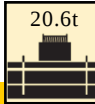
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 m	46	46	46	50.7	50.7	50.7	50.7	55.3	55.3	60	64	 m
2.5												2.5
3												3
3.5												3.5
4												4
4.5												4.5
5												5
6												6
7												7
8												8
9												9
10	19.5	25.8	27.5									10
12	17.6	23.1	25.5	17.1	17.3	20.0	22.0					12
14	15.9	20.8	23.0	15.7	16.0	18.2	20.0	15.7	17.5	14.0		14
16	14.4	18.9	21.0	14.5	14.7	16.6	18.5	14.8	16.5	14.0	11.1	16
18	13.2	17.1	18.8	13.4	13.6	15.2	17.0	13.8	15.0	13.5	11.1	18
20	12.1	15.7	15.6	12.3	12.6	14.0	15.6	12.8	14.0	12.5	11.1	20
22	11.1	13.7	13.0	11.3	11.5	12.9	13.4	11.7	13.1	11.6	10.6	22
24	10.3	11.8	11.2	10.5	10.7	11.7	11.4	10.9	11.5	10.7	9.9	24
26	9.7	10.2	9.5	9.7	10.1	10.6	9.7	10.0	10.1	9.9	9.1	26
28	8.9	8.9	8.1	9.0	9.1	9.2	8.3	9.4	8.7	9.0	8.3	28
30	8.0	7.8	7.0	8.4	8.5	8.1	7.3	8.5	7.6	8.1	7.5	30
32	7.6	6.5	6.1	7.6	7.7	7.1	6.3	7.6	6.6	7.1	7.0	32
34	6.7	5.7	5.2	7.0	6.7	6.2	5.5	6.7	5.8	6.3	6.3	34
36	5.9	5.0	4.5	6.3	6.0	5.5	4.8	6.0	5.0	5.6	5.6	36
38	5.2	4.5	3.8	5.6	5.4	4.8	4.1	5.3	4.3	4.9	4.9	38
40				5.1	4.8	4.3	3.5	4.7	3.8	4.3	4.4	40
42				4.5	4.3	3.7	2.9	4.2	3.3	3.8	3.8	42
44								3.8	2.9	3.3	3.4	44
46								3.3	2.4	2.9	2.9	46
48										2.5	2.5	48
50										2.2	2.2	50
52											1.9	52
54											1.6	54
56											1.3	56
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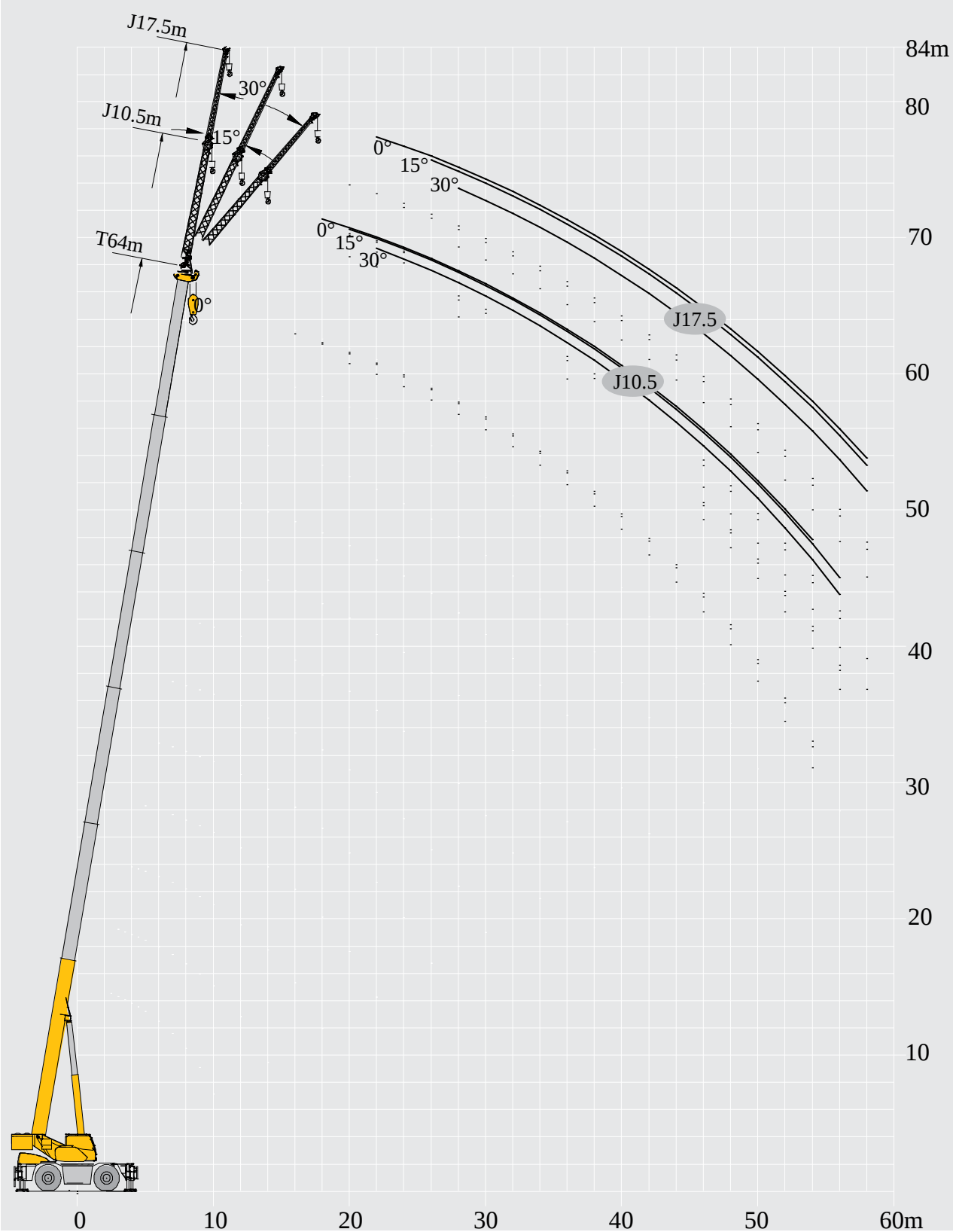
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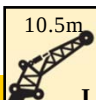
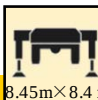
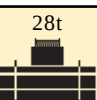
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 m	13.5	18.1	18.1	18.1	18.1	22.8	22.8	22.8	27.4	27.4	27.4	32.1	 m
2.5	150.0												2.5
3	110.0	50.3	93.0	93.0	93.0								3
3.5	102.0	47.7	87.0	90.0	91.0								3.5
4	98.5	45.2	81.0	85.0	91.0	50.0	84.0	85.0					4
4.5	91.4	43.1	76.0	80.0	86.0	47.0	78.0	80.0					4.5
5	85.2	41.0	70.0	75.0	80.0	45.0	72.0	76.0	49.3	57.3	70.0		5
6	72.1	37.4	62.0	69.0	73.0	42.0	63.0	67.0	45.7	51.7	64.0	21.0	6
7	62.1	34.7	56.0	64.0	66.0	39.0	58.0	61.0	42.8	46.9	59.0	21.0	7
8	53.7	32.2	50.0	57.0	60.0	36.0	54.0	56.0	40.2	42.7	53.0	19.2	8
9	47.2	30.1	46.0	53.6	50.0	33.7	52.1	50.0	37.9	39.2	48.0	17.6	9
10	41.0	28.3	42.0	45.4	42.0	31.0	45.5	42.0	35.8	36.2	44.8	16.4	10
12		25.3	32.8	32.0	31.2	27.0	32.2	30.7	31.4	31.5	31.5	14.2	12
14		23.2	24.7	24.1	23.3	24.0	24.2	22.9	26.5	24.0	23.6	12.6	14
16						20.9	18.9	17.7	21.1	18.7	18.4	11.3	16
18						17.1	15.2	14.0	17.3	15.0	14.7	10.0	18
20									14.4	12.2	11.9	9.1	20
22									12.2	10.1	9.8	8.3	22
24												7.7	24
26												7.0	26
28													28
30													30
32													32
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46													46
48													48
50													50
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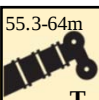
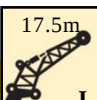
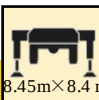
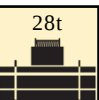
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2.5													2.5
3													3
3.5													3.5
4													4
4.5													4.5
5													5
6	45.5	55.0	45.0										6
7	45.5	55.0	45.0	20.4	33.7	45.3	42.0						7
8	43.2	50.0	42.0	20.4	33.7	45.3	42.0						8
9	40.5	46.0	40.0	18.9	31.0	43.0	38.0	19.6	25.7	32.1	35.0		9
10	38.4	43.0	36.5	17.7	28.9	41.0	34.0	18.4	24.2	30.2	32.0	18.9	10
12	34.0	32.6	30.9	15.5	25.2	33.6	30.0	16.3	21.7	26.7	28.9	17.0	12
14	26.2	24.6	23.0	13.8	22.2	25.5	23.9	14.6	19.6	24.0	24.8	15.4	14
16	20.8	19.3	17.8	12.4	19.5	20.2	18.7	13.3	17.9	20.1	19.5	14.0	16
18	17.0	15.6	14.2	11.2	16.6	16.4	14.9	12.1	16.4	16.3	15.8	12.9	18
20	14.2	12.8	11.4	10.2	13.8	13.6	12.2	11.0	14.2	13.5	13.0	11.8	20
22	12.0	10.6	9.3	9.4	11.6	11.4	10.0	10.0	12.0	11.3	10.8	10.9	22
24	10.2	8.9	7.6	8.7	9.9	9.7	8.3	9.5	10.3	9.6	9.1	10.1	24
26	8.8	7.5	6.2	8.0	8.4	8.2	6.9	8.8	8.9	8.2	7.7	9.4	26
28				7.4	7.3	7.1	5.8	8.2	7.7	7.0	6.5	8.5	28
30				7.0	6.3	6.1	4.8	7.6	6.7	6.0	5.5	7.5	30
32								6.7	5.8	5.1	4.7	6.6	32
34								6.0	5.1	4.4	3.9	5.8	34
36												5.2	36
38												4.6	38
40													40
42													42
44													44
46													46
48													48
50													50
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伸缩模式	01111	11110	21100	00122	02111	11111	21110	00222	11112	12111	21111	01222	伸缩模式

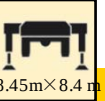
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IS043 EN13													
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2.5												2.5	
3												3	
3.5												3.5	
4												4	
4.5												4.5	
5												5	
6												6	
7												7	
8												8	
9												9	
10	19.5	25.8	27.5									10	
12	17.6	23.1	25.5	17.1	17.3	20.0	22.0					12	
14	15.9	20.8	23.0	15.7	16.0	18.2	20.0	15.7	17.5	14.0		14	
16	14.4	18.9	19.5	14.5	14.7	16.6	18.5	14.8	16.5	14.0	11.1	16	
18	13.2	16.5	15.7	13.4	13.6	15.2	16.0	13.8	15.0	13.5	11.1	18	
20	12.1	13.7	13.0	12.3	12.6	14.0	13.2	12.8	13.5	12.5	11.1	20	
22	11.1	11.5	10.8	11.3	11.5	11.8	11.0	11.7	11.3	11.6	10.6	22	
24	10.3	9.7	9.1	10.5	10.6	10.1	9.3	10.5	9.6	10.0	9.9	24	
26	9.1	8.3	7.7	9.3	9.2	8.6	7.9	9.1	8.2	8.6	8.6	26	
28	8.0	7.1	6.5	7.9	8.0	7.5	6.7	7.9	7.0	7.4	7.5	28	
30	6.9	6.1	5.5	6.9	7.0	6.5	5.7	6.9	6.0	6.4	6.5	30	
32	6.1	5.3	4.6	6.2	6.1	5.6	4.8	6.0	5.2	5.6	5.6	32	
34	5.3	4.5	3.9	5.4	5.4	4.9	4.1	5.3	4.4	4.8	4.9	34	
36	4.7	3.9	3.3	4.8	4.7	4.2	3.5	4.6	3.8	4.2	4.2	36	
38	4.1	3.3	2.7	4.2	4.2	3.6	2.9	4.0	3.2	3.6	3.6	38	
40				3.7	3.7	3.1	2.4	3.5	2.7	3.1	3.1	40	
42				3.2	3.2	2.7	1.9	3.1	2.3	2.6	2.7	42	
44								2.6	1.8	2.2	2.3	44	
46								2.3	1.5	1.9	1.9	46	
48										1.5	1.6	48	
50										1.2	1.3	50	
52												52	
伸缩模式	11122	12211	22111	02222	11222	12221	22211	12222	22221	22222	33333	伸缩模式	



	 55.3-64m T	 10.5m J	 8.45m×8.4 m	 360°	 28t					
	55.3			60			64			
	10.5									
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
16	7.0									16
18	7.0	6.4		6.8			6.2			18
20	7.0	6.1	4.7	6.6	5.9		6.1	5.6		20
22	6.7	6.0	4.6	6.4	5.8	4.5	6.1	5.5	4.3	22
24	6.5	5.8	4.5	6.2	5.6	4.4	5.9	5.4	4.3	24
26	6.3	5.6	4.3	6.0	5.5	4.2	5.8	5.3	4.2	26
28	6.1	5.5	4.2	5.9	5.3	4.2	5.6	5.1	4.1	28
30	5.8	5.3	4.1	5.7	5.2	4.1	5.5	5.0	4.0	30
32	5.2	5.2	3.9	5.3	5.0	3.9	5.3	4.9	3.9	32
34	4.5	4.8	3.8	4.7	4.9	3.8	4.7	4.8	3.8	34
36	4.0	4.2	3.7	4.2	4.4	3.7	4.1	4.4	3.7	36
38	3.5	3.7	3.6	3.7	3.9	3.6	3.7	3.9	3.6	38
40	3.1	3.3	3.4	3.3	3.5	3.5	3.2	3.4	3.5	40
42	2.7	2.9	3.0	2.9	3.1	3.2	2.9	3.0	3.2	42
44	2.4	2.5	2.6	2.6	2.7	2.8	2.5	2.7	2.8	44
46	2.1	2.2	2.3	2.2	2.4	2.5	2.2	2.4	2.5	46
48	1.8	1.9	2.0	2.0	2.1	2.2	1.9	2.1	2.2	48
50	1.5	1.6	1.7	1.7	1.8	1.9	1.7	1.8	1.9	50
52	1.3	1.4	1.4	1.5	1.6	1.6	1.4	1.6	1.6	52
54	1.1	1.2	1.2	1.3	1.4	1.4	1.2	1.3	1.4	54
56				1.1	1.1	1.2		1.1	1.2	56

	 55.3-64m T	 17.5m J	 8.45m×8.4 m	 360°	 28t					
	55.3			60			64			
	17.5									
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
18	4.5									18
20	4.3			4.0						20
22	4.1	3.2		4.0			3.7			22
24	4.0	3.0		3.8	3.0		3.7			24
26	3.9	2.8	2.0	3.7	2.9		3.6	2.8		26
28	3.7	2.6	1.9	3.6	2.7	1.9	3.5	2.8	2.0	28
30	3.6	2.6	1.8	3.5	2.7	1.8	3.4	2.7	1.9	30
32	3.5	2.5	1.8	3.4	2.5	1.8	3.3	2.6	1.7	32
34	3.4	2.3	1.7	3.3	2.3	1.8	3.2	2.5	1.7	34
36	3.3	2.2	1.6	3.2	2.3	1.7	3.2	2.4	1.7	36
38	3.2	2.2	1.6	3.2	2.3	1.7	3.1	2.4	1.7	38
40	3.1	2.1	1.6	3.1	2.1	1.6	3.0	2.2	1.6	40
42	2.9	2.1	1.6	3.0	2.1	1.6	3.0	2.1	1.6	42
44	2.7	2.0	1.5	2.8	2.0	1.5	2.8	2.1	1.6	44
46	2.4	1.9	1.5	2.5	2.0	1.5	2.4	2.0	1.5	46
48	2.1	1.8	1.4	2.2	1.9	1.5	2.2	1.9	1.5	48
50	1.8	1.8	1.4	2.0	1.9	1.4	1.9	1.9	1.5	50
52	1.6	1.7	1.4	1.7	1.8	1.4	1.7	1.9	1.4	52
54	1.4	1.5	1.4	1.5	1.7	1.4	1.4	1.6	1.4	54
56	1.2	1.3	1.4	1.3	1.5	1.4	1.2	1.4	1.4	56
58		1.1	1.2	1.1	1.3	1.4	1.1	1.2	1.4	58

55.3-64m T 10.5m J 8.45m×8.4m 360° 20.6t										
m 55.3 60 64 m										
10.5										
0° 15° 30° 0° 15° 30° 0° 15° 30°										
16	7.0									16
18	7.0	6.4		6.8			6.2			18
20	7.0	6.1	4.7	6.6	5.9		6.1	5.6		20
22	6.7	6.0	4.6	6.4	5.8	4.5	6.1	5.5	4.3	22
24	6.5	5.8	4.5	6.2	5.6	4.4	5.9	5.4	4.3	24
26	6.2	5.6	4.3	6.0	5.5	4.2	5.8	5.3	4.2	26
28	5.3	5.5	4.2	5.5	5.3	4.2	5.5	5.1	4.1	28
30	4.6	4.9	4.1	4.8	5.1	4.1	4.7	5.0	4.0	30
32	4.0	4.2	3.9	4.1	4.4	3.9	4.1	4.4	3.9	32
34	3.4	3.7	3.8	3.6	3.8	3.8	3.6	3.8	3.8	34
36	2.9	3.2	3.3	3.1	3.3	3.5	3.1	3.3	3.5	36
38	2.5	2.7	2.9	2.7	2.9	3.1	2.7	2.9	3.1	38
40	2.2	2.3	2.5	2.3	2.5	2.7	2.3	2.5	2.7	40
42	1.8	2.0	2.1	2.0	2.2	2.3	2.0	2.2	2.3	42
44	1.5	1.7	1.8	1.7	1.9	2.0	1.7	1.8	2.0	44
46	1.3	1.4	1.5	1.4	1.6	1.7	1.4	1.6	1.7	46
48		1.1	1.2	1.2	1.3	1.4	1.2	1.3	1.4	48
50					1.1	1.2		1.1	1.2	50

55.3-64m T 17.5m J 8.45m×8.4 m 360° 20.6t										
55.3 60 64 17.5										
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
18	4.5									18
20	4.3			4.0						20
22	4.1	3.2		4.0			3.7			22
24	4.0	3.0		3.8	3.0		3.7			24
26	3.9	2.8	2.0	3.7	2.9		3.6	2.8		26
28	3.7	2.6	1.9	3.6	2.7	1.9	3.5	2.8	2.0	28
30	3.6	2.6	1.8	3.5	2.7	1.8	3.4	2.7	1.9	30
32	3.5	2.5	1.8	3.4	2.5	1.8	3.3	2.6	1.7	32
34	3.4	2.3	1.7	3.3	2.3	1.8	3.2	2.5	1.7	34
36	3.3	2.2	1.6	3.2	2.3	1.7	3.2	2.4	1.7	36
38	2.8	2.2	1.6	3.0	2.3	1.7	2.9	2.4	1.7	38
40	2.5	2.1	1.6	2.6	2.1	1.6	2.6	2.2	1.6	40
42	2.1	2.1	1.6	2.3	2.1	1.6	2.2	2.1	1.6	42
44	1.8	2.0	1.5	2.0	2.0	1.5	1.9	2.1	1.6	44
46	1.6	1.8	1.5	1.7	1.9	1.5	1.6	1.9	1.5	46
48	1.3	1.5	1.4	1.4	1.7	1.5	1.4	1.6	1.5	48
50	1.1	1.3	1.4	1.2	1.4	1.4	1.2	1.4	1.5	50
52		1.1	1.2		1.2	1.4		1.2	1.3	52
54						1.1			1.1	54

Description of symbols

General symbols

	Outriggers		Axle
	Working radius		Travel speed
	Boom angle		Grade ability
	Boom length		Tire
	Hook block		Counterweight
	360° operation of the boom		Superstructure
	Winch		Rough Terrain Crane

Symbols for lifting operation

	Boom		Jib
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Table of main technical parameters

Category	Item		Unit	Parameter	
Dimensions	Dimensions (L×W×H)		mm	16249×3480×4095 (20.6t counterweight)	16249×3956×4095 (28t counterweight)
	Axle spacing		mm	4600	
	Track (front/rear)		mm	2590/2590	
	Front overhang/rear overhang		mm	2568/2474	
	Front extension/rear extension		mm	6491/116	
Weight	Gross vehicle weight		kg	79500	86900
	Axle load	Axle 1	kg	37600	34860
		Axle 2	kg	41900	52040
Power	Engine model		——	QSL8.9-C295-30	
	Rated power/rotation speed		kW/(r/min)	220/2100	
	Max. output torque/rotation speed		N.m/(r/min)	1350/(1300~1600)	
Travel	Max. travel speed		km/h	25	10
	Min. stable travel speed		km/h	2.3	
	Min. turning diameter		m	≤18	
	Min. ground clearance		mm	506	
	Approach angle		°	20.4	
	Departure angle		°	21.5	
	Braking distance (initial speed at 24km/h)		m	≤9	
	Maximum gradeability (theoretical value)		%	70	63

Table of main technical parameters

Category	Item			Unit	Parameter
Main performance	Max. rated lifting capacity			t	150
	Minimum rated working radius			m	2.5
	Turning radius at turntable tail	At counterweight		mm	4990
	Maximum load moment	Base boom		kN.m	4630
		Fully-extended boom		kN.m	2352
	Outrigger span	Longitudinal		m	8.45
		Lateral		m	8.4
	Lifting height	Basic boom		m	14.5
		Fully-extended boom		m	63.2
		Fully-extended boom + jib		m	77.4
	Boom length	Base boom		m	13.5
		Fully-extended boom		m	64
		Fully-extended boom + jib		m	81.5
	Jib offset angle			°	0°, 15°, 30°
Working speed	Time for raising boom			s	60
	Time for fully extending the boom			s	435
	Max. slewing speed			r/min	1.3
	Time for extending / retracting the outriggers	Outrigger beam	Retract	s	40
			Down	s	40
		Outrigger jack	Up	s	55
			Down	s	45
	Hoisting speed (single line, no load, 4th layer)	Main winch system		m/min	135
Auxiliary winch		m/min	90		

1. The total rated load given in the rated load charts is the maximum lifting capacity when the crane is set up on firm and level ground. The total rated load includes the weight of the hook blocks and slings. To calculate the actual weight that could be lifted, the weight of hook blocks and slings should be deducted from the lifting capacities.
2. The working radius is the horizontal distance between the gravity center of load and the rotational axis of the crane superstructure measured on the ground when the load is lifted off ground, and it is the actual value including loaded boom deflection. Take boom deflection into consideration before beginning a lifting operation.
3. A lifting operation is permissible only when the wind force is below grade 5 (instantaneous wind speed of 14.1 m/s, wind pressure of 125N/m^2).
4. Before beginning lifting, the operator should know the weight of the load to be lifted and its working range, and should then select proper working conditions. Never operate the crane beyond the limit shown in the chart. Take the lower value from the chart when the boom length or working radius is between the range of values.
5. Observe the boom angle limit. Never operate the crane with the boom angle beyond the recommended limit even if a load is not being carried. Otherwise, the crane will tip.
6. Extend boom sections according to the specified percentage.