

XCR70 Rough Terrain Crane

Technical specifications



70t



45m



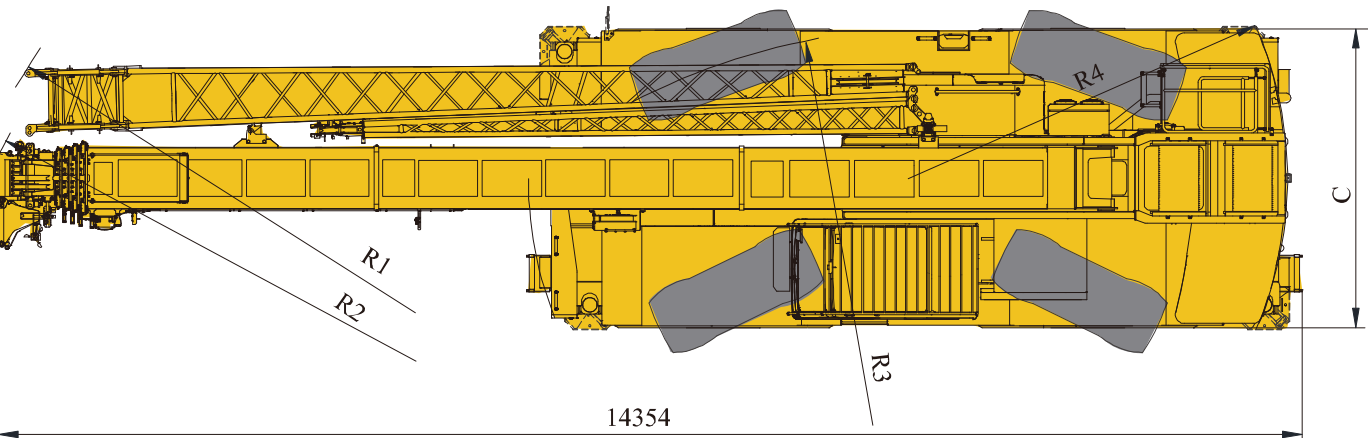
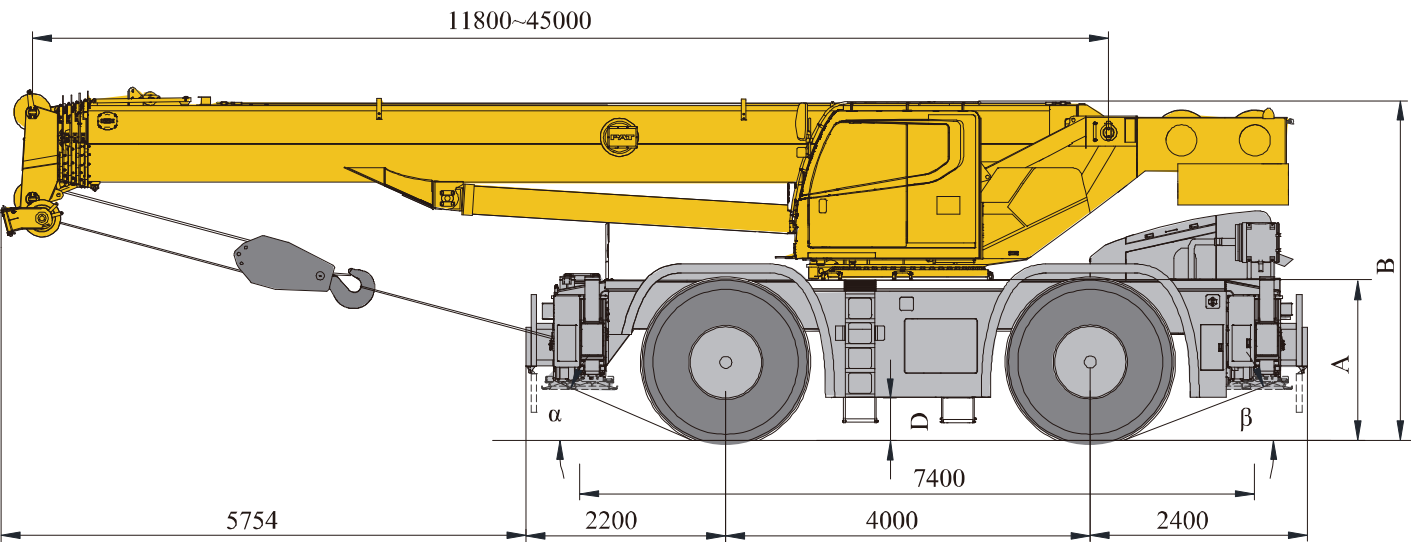
57.9m



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Dimensions



	α	β	A	B	C	D	R1	R2	R3	R4
29.5R25	23°	21°	1766	3750	3290	475	11445	11247	6500	4200

Technical specifications

			
Boom	1 basic boom and 4-telescoping sections, U-shape cross section welding structure. Double cylinder plus ropes telescoping mechanism. 6 pulleys on boom head are standard. Boom length: 11.8 m ~ 45 m.	●	
Jib	Two-section lattice structure. Three offset angles of 0°, 15° and 30° are available. It is stowed along the side of the boom. Jib length: 9.2 m ~ 16 m.	●	
Frame	Made of high strength fine grained steel, welded torsion-resistant frame type construction with large cross-section, high load-bearing capacity.	●	
Outrigger	4 outriggers, H-shaped arrangement, which are controlled by electrical and hydraulic and located at both sides of chassis frame.	●	
Engine	SC9DK260.1G3, in line, six-cylinder water-cooled compression ignition diesel engine, manufactured by Shangchai, with rated power of 192/2000(kW/(r/min)), max. torque of 1110/(1200-1600)(N.m/(r/min)), off-road EU Stage IIIA emission standard compliant Fuel tank capacity: approx. 305 L	○	
Engine	QSB6.7-C260-30, in line, six-cylinder water-cooled compression ignition diesel engine, manufactured by Dongkang, with rated power of 194/2200(kW/(r/min)), max. torque of 990/1500(N.m/(r/min)), off-road EU Stage IIIA emission standard compliant Fuel tank capacity: approx. 305 L	○	
Transmission	6WG210, automatic transmission from ZF Germany, with 6 forward and 3 reverse gears	●	
Axles	Both front and rear axles are for driving and steering, and the axles have features of great load bearing capacity	●	
Suspensions	Front axle is rigidly connected with frame; rear axle is equipped with swing hydraulic suspensions, which have cushioning function when driving on roads; the rear suspension cylinder may be locked to rigid state so as to meet the requirement for travel with a load suspended, increasing operation stability.	●	
Tires	4 specialized off-road, large bearing capacity. Tire specifications: 29.5R25.	●	
Steering	Front axle independent steering, tight turning radius steering, crab walk steering and rear axle independent steering modes are available. The steering angle can be self-adjusted when changing mode.	●	
Brakes	Service brake: double-circuit hydraulic disc brake, acting on all wheels. Automatically braking and alarm are available when the pressure in braking system is too low. Parking brake: spring-loaded brake, acting on front axles, hydraulic-released independent disc brake.		●
Hydraulic system	A dual-variable displacement pump, used for hoisting, elevating and telescoping operations, and a gear pump, used for slewing, outrigger, steering and braking operations; a load sensitive proportional multi-way change valve is used as main valve; an independent hydraulic oil radiator. Tank capacity: approx. 1120 L.		●
Operating mode	Hydraulic controlled pilot operation system is equipped with two levers controlling the main movements of the crane.		●
Electrical System	24 V DC, two sets of 12 V battery in series.		●
Main and auxiliary winch system	The system is driven by a hydraulic motor through a planetary gear reducer, with a normally closed brake and a balance valve equipped.		●
Slewing system	Single-row four-point ball contact slewing ring, driven by a hydraulic motor through planetary gear reducer, and with a normally closed brake fitted.		●
Operator's cab	Tilttable cab, with sliding door and adjustable seat equipped. It is equipped with safe glass and roof protective grille. Sun shade is available for windshield and roof window. Heater and air conditioner, radio, 12 V and 24 V DC outlets are standard.		●
Safety devices	Hydraulic balance valve, hydraulic relief valve, hydraulic 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.		●
	6.3 t		●
Counterweight	9 t. Two counterweight configurations of 0 t and 9 t are available. (If the optional 9 t slab is selected, the 6.3 t standard slab will not be supplied.)		○
Hook Block	55 t hook block, 5 t hook block		●

Product parts list is as mentioned above. Please refer to the product quotation for specific parts.

Symbol explanation:

- —it means the standard configuration;
- —it means the optional configuration.

Weight



Axle	1	2	Gross vehicle weight
t	24.252	22.503	46.755 (Optional 9t counterweight)
	25.298	18.757	44.055 (Optional 6.3t counterweight)








Hook	No. of lines	Weight (kg)	Remarks
55t	10	502	Single hook
5t	1	158	Single hook

Working speeds

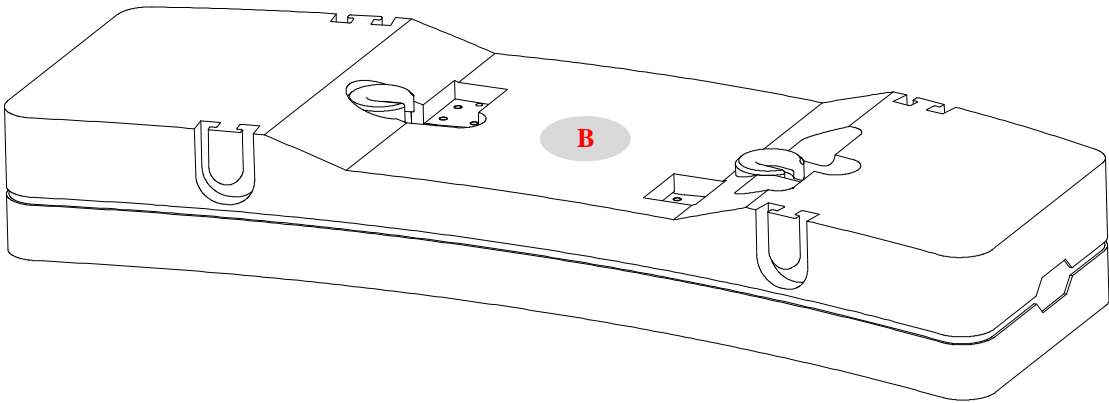
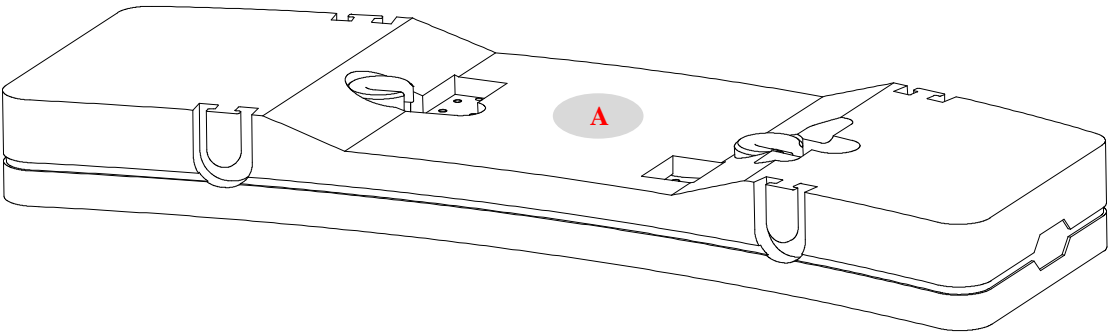


		
29.5 R 25	40	70%



Drive	Working speed		Max. single line pull	Rope diameter/ length
	0-150	m/min, no load, 4th layer	61kN	20mm/215m
	0-100	m/min, no load, 4th layer	61kN	20mm/140m
	0-2r/min			
	Approx. 50s for boom elevation from -1.5° to 80°			
	Approx. 90s for boom extension from 11.8m to 45m			

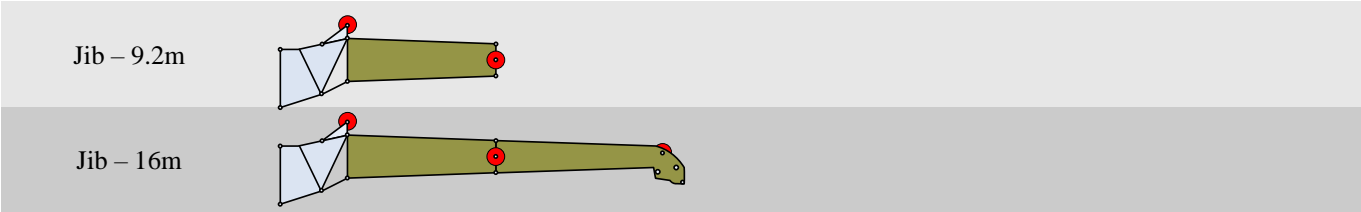
Counterweight

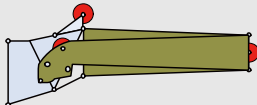


Counterweight	A	B (optional)
Size (L×W×H) mm	3200×1250×330	3200×1250×450
Weight t	6.3	9

Working mode	0t	6.3t	9t (optional)
Combinations	—	A	B

Boom / Jib combinations



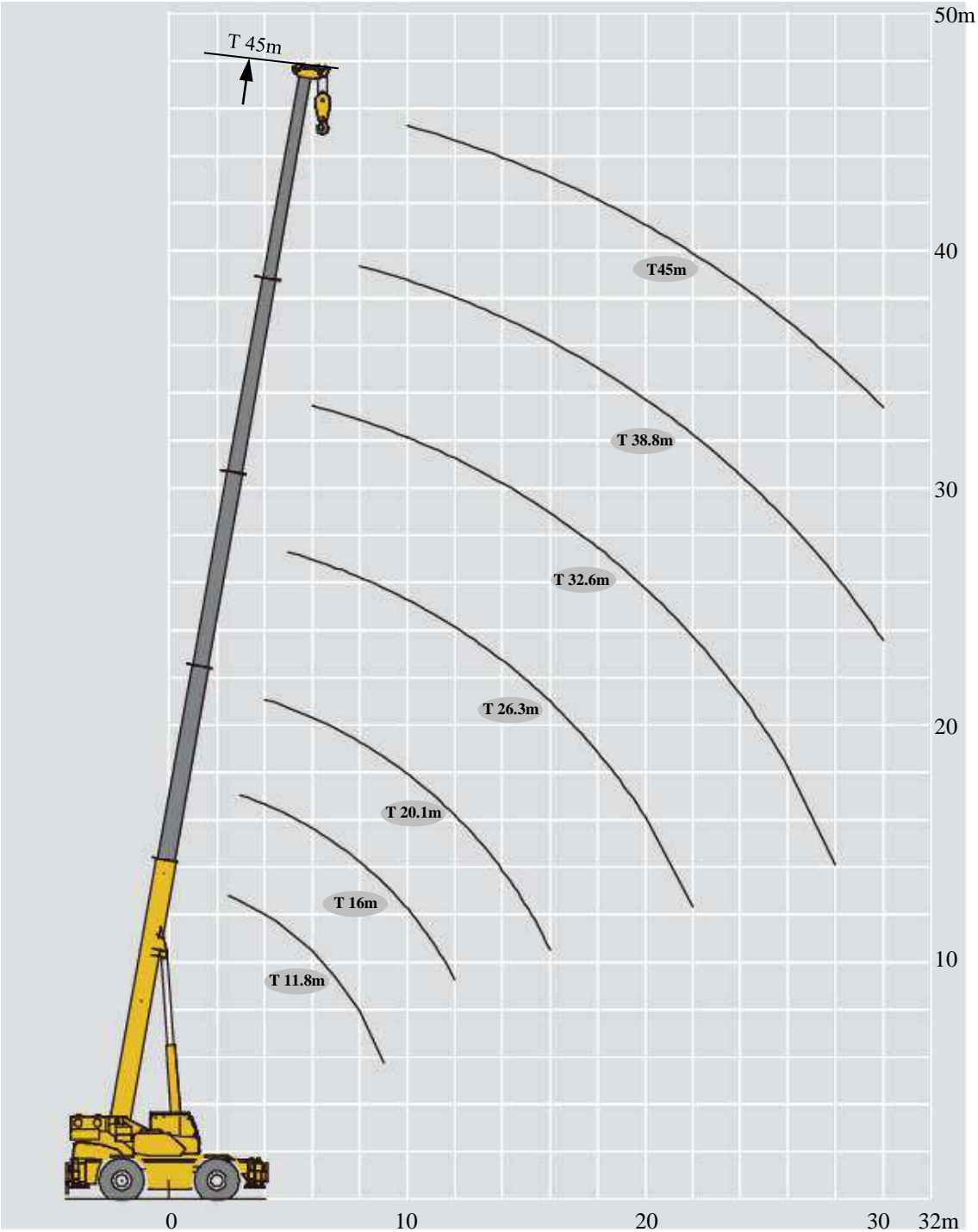
Component	Structure	Size (L×W×H) mm	(Weight kg)
First and second jib section assembly + Connecting bracket		(Folded) : 9784×950×1263	932






臂架组合方案

Boom / Jib combinations









Telescopic boom	Telescopic boom + First jib section	Telescopic boom + First and second jib sections
11.8~45m	45m+9.2m	45m+16 m

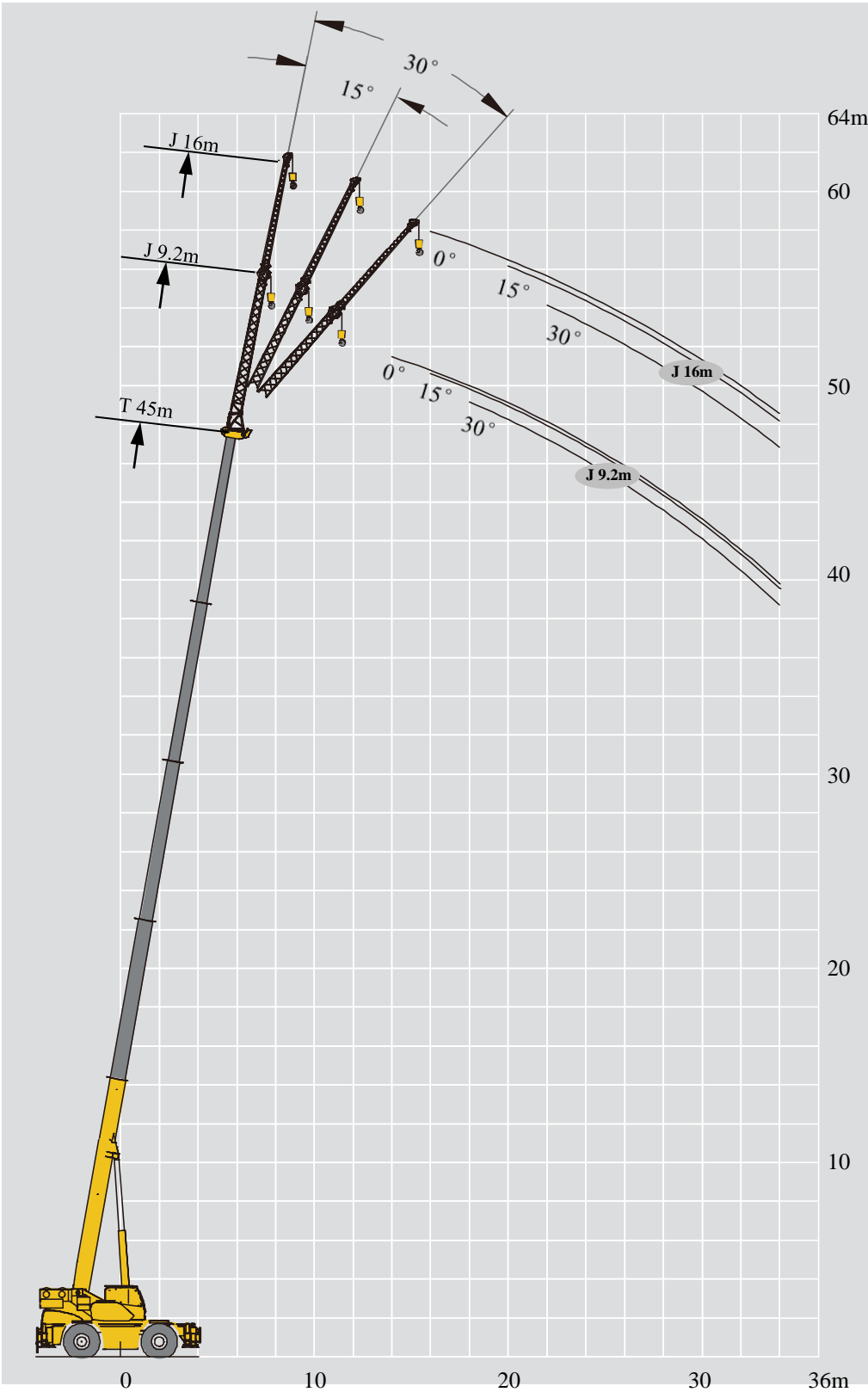








<div><div>m</div><div><div>11.8-45m</div><div>T</div></div><div><div>7.4m×7.4m</div></div><div></div><div></div><div>m</div></div>																
	11.8m	16.0m	20.1m	26.3m	32.6m	38.8m	45m	18.0m	24.3m	30.5m	36.7m	22.2m	28.4m	34.6m	40.9m	
2.5	70*															2.5
3	60	42.5						27.5								3
3.5	55	43.5						28.0								3.5
4	48	45	37					28.5	20.0			27.0				4
4.5	44	43	37					28.5	20.0			27.0				4.5
5	38	38	31	27				28.5	20.0			27.0	21.0			5
6	31	31	30	25.4	19			28.5	20.0	12.5		27.0	21.0			6
7	25	25	25	23.9	17.8			25.0	20.0	13.4		25.0	21.0	12.5		7
8	21	21	21	21.8	17.4	12		21.0	20.0	13.4		21	21.0	13.3		8
9	18.3	18.1	17.7	19	17	11.5		18.6	19.8	13.4		18.5	20.2	13.3		9
10		14.5	14.2	15.4	16.5	11.2	9.3	16.3	17	12.4	5.0	15.7	16.5	13.3		10
12		9.9	9.6	10.7	11.3	10.2	8.8	11.5	12.2	10.8	5.0	11	11.7	11.9		12
14			6.8	7.8	8.4	8.8	8.5	8.6	9.2	9.6	8.5	8.1	8.7	9.1	6.5	14
16			4.7	5.9	6.4	6.8	7.1		7.2	7.6	7.5	6.1	6.7	7.1	7.4	16
18				4.4	5	5.4	5.7		5.7	6.1	6.3	4.7	5.3	5.7	5.9	18
20				3.3	3.9	4.3	4.6		4.6	5	5.2		4.2	4.6	4.8	20
22				2.5	3.1	3.4	3.7			4.1	4.3		3.3	3.7	4	22
24					2.2	2.6	3			3.4	3.6		2.5	3	3.3	24
26					1.6	2	2.3			2.9	3			2.3	2.6	26
28					1.1	1.5	1.8				2.5			1.8	2.1	28
30						1.1	1.4				1.9			1.3	1.6	30
2nd	0	50%	100%	100%	100%	100%	100%	0%	0%	0%	0%	50%	50%	50%	50%	2nd
3rd	0	0	0	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%	3rd
4th	0	0	0	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%	4th
5th	0	0	0	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%	5th







The lifting load with a * followed is available only when the boom sheave block is used together with the single top, with 13 parts of line.


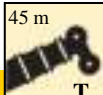

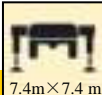



<div><div>m</div><div> T</div><div> 7.4m×7.4m</div><div> 360°</div><div> 9t</div><div>m</div></div>																	
	11.8m	16.0m	20.1m	26.3m	32.6m	38.8m	45m	18.0m	24.3m	30.5m	36.7m	22.2m	28.4m	34.6m	40.9m		
2.5	70*															2.5	
3	60	42.5						27.5								3	
3.5	55	43.5						28.0								3.5	
4	50	45	37					28.5	20.0			27.0				4	
4.5	46	43	37					28.5	20.0			27.0				4.5	
5	40	40	33.5	27				28.5	20.0			27.0	21.0			5	
6	33.5	33.3	31.5	25.4	19			28.5	20.0	12.5		27.0	21.0			6	
7	27.5	27.5	27.4	23.9	17.8			27.5	20.0	13.4		27.0	21.0	12.5		7	
8	23.5	23.5	23	21.8	17.4	12		23.5	20.0	13.4		24.0	21.0	13.3		8	
9	20	20	20	19	17	11.5		20.0	19.8	13.4		20.0	20.7	13.3		9	
10		16.5	16.2	17	16.5	11.2	9.3	18.3	18.5	12.4	5.0	17.7	16.9	13.3		10	
12		11.4	11.1	12.2	13.2	10.2	8.8	13	13.7	10.8	5.0	12.5	12	11.9		12	
14			8	9.1	9.7	9.7	8.5	9.8	10.4	9.6	8.5	9.3	9	10.4	6.5	14	
16			5.9	6.9	7.5	7.9	7.8		8.2	8.6	7.5	7.2	7	8.2	8.0	16	
18				5.3	5.9	6.3	6.6		6.6	7	6.7	5.6	5.5	6.6	6.8	18	
20				4.2	4.7	5.1	5.4		5.4	5.8	6.0		4.3	5.4	5.6	20	
22				3.2	3.8	4.1	4.4			4.8	5		3.5	4.4	4.7	22	
24					3	3.4	3.6			4.1	4.2		2.8	3.7	3.9	24	
26					2.2	2.8	3			3.4	3.6			3	3.3	26	
28					1.7	2.2	2.5				3.1			2.5	2.7	28	
30						1.7	2				2.6			2.1	2.2	30	
32						1.3	1.5								1.9	32	
2nd	0	50%	100%	100%	100%	100%	100%	0%	0%	0%	0%	50%	50%	50%	50%	2nd	
3rd	0	0	0	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%	3rd	
4th	0	0	0	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%	4th	
5th	0	0	0	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%	5th	




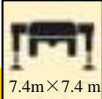



*The lifting load with a * followed is available only when the boom sheave block is used together with the single top, with 13 parts of line.



<div><div><div>45 m</div><div>T</div></div><div><div>9.2m</div><div>J</div></div><div><div>7.4m×7.4 m</div></div><div><div>360°</div></div><div><div>6.3t</div></div></div>					45 m+9.2m				
					0°	15°	30°		
14	4.8							14	
16	4.7					3.1		16	
18	4.5					3	2.4	18	
20	3.9					3	2.3	20	
22	3.6					2.7	2.2	22	
24	2.8					2.6	2.1	24	
26	2.2					2.5	2	26	
28	1.7					1.9	1.9	28	
30	1.3					1.5	1.7	30	















<div><div><div>45 m</div><div>T</div></div><div><div>16m</div><div>J</div></div><div><div>7.4m×7.4 m</div></div><div><div>360°</div></div><div><div>6.3t</div></div></div>					45 m+16m				
					0°	15°	30°		
16	2.9							16	
18	2.8							18	
20	2.6					1.9		20	
22	2.5					1.8	1.3	22	
24	2.3					1.6	1.3	24	
26	2.1					1.5	1.2	26	
28	1.9					1.4	1.2	28	
30	1.7					1.3	1.2	30	

	 45 m T	 9.2m J	 7.4m×7.4 m	 360°	 9t	
	45 m+9.2m					
	0°		15°		30°	
14	4.8					14
16	4.7		3.1			16
18	4.5		3		2.4	18
20	3.9		3		2.3	20
22	3.8		2.7		2.2	22
24	3.5		2.6		2.1	24
26	2.8		2.5		2	26
28	2.2		2.3		1.9	28
30	1.8		2		1.8	30
32	1.4		1.6		1.7	32
34	1		1.2		1.3	34

	 45 m T	 16m J	 7.4m×7.4 m	 360°	 9t	
	45 m+16m					
	0°		15°		30°	
16	2.9					16
18	2.8					18
20	2.6		1.9			20
22	2.5		1.8		1.3	22
24	2.3		1.6		1.3	24
26	2.1		1.5		1.2	26
28	1.9		1.4		1.2	28
30	1.8		1.3		1.2	30
32	1.7		1.2		1.1	32
34	1.4		1.2		1.1	34

Description of symbols

Symbol glossary

	Outriggers		Axle
	Radius		Driving speed
	Boom angle		Grade ability
	Boom length		Tires
	Hook block		Counterweight
	360° rotation		Superstructure
	Winch		Chassis

Crane specific symbols

	Boom		Jib
------------------------------------------------------------------------------------	------	-------------------------------------------------------------------------------------	-----

Table of main technical parameters

Category	Item		Unit	Parameter		Allowance
Dimensions	Outline size (length×width×height)		mm	14354×3290×3750		±1%
	Wheel base		mm	4000		±1%
	Track (Front/ Rear)		mm	2520/2520		±1%
	Front/ Rear overhang		mm	2200/2400		±1%
	Front/ Rear extension		mm	5754/0		±1%
Weight	Gross vehicle weight		kg	44055(6.3t counterweight)	46755 (9t counterweight)	±3%
	Axle load	1st axle	kg	25298	24252	±3%
		2nd axle	kg	18757	22503	±3%
Power	Engine model		——	SC9DK260.1G3/QSB6.7-C260-30		—
	Engine rated power/rpm		kW/(r/min)	192/2000、194/2200		—
	Engine rated torque/rpm		N.m/(r/min)	1110/ (1200~1600) 、900/1500		—
Travel	Max. travel speed		km/h	≥40		—
	Min. travel speed		km/h	1.8		—
	Min. turning diameter		m	≤13		—
	Min. ground clearance		mm	475		±1%
	Approach angle		°	23		±1°
	Departure angle		°	21		±1°
	24km/h) Braking distance (at 24 km/h)		m	≤9		—
	Max. grade ability		%	≥67		—

Table of main technical parameters

Category	Item		Unit	Parameter	Allowance
Main performance	Max. total rated lifting capacity		t	70	±5%
	Min. rated working radius		m	2.5	±1%
	Turning radius at turntable tail	Counterweight	mm	4200	±1%
	Max. load moment	Base boom	kN.m	2028.6	±5%
		Fully-extended boom	kN.m	1223	±5%
	Outrigger span	Longitudinal	m	7.4	±1%
		Lateral	m	7.4	±1%
	Hoist height	Base boom	m	12.8	±1%
		Fully-extended boom	m	45.3	±1%
		Fully-extended boom + Jib	m	57.9	±1%
	Boom length	Base boom	m	11.8	±1%
		Fully-extended boom	m	45	±1%
		Fully-extended boom + Jib	m	61	±1%
	Jib offset angle		°	0°、15°、30°	—
Working speed	Boom raising time		s	≤50	—
	Boom fully extending time		s	≤90	—
	Max. slewing speed		r/min	≥2	—
	Outrigger extending and retracting time	Outrigger beam	Retracting	s	≤20
			Extending	s	≤35
		Outrigger jack	Retracting	s	≤30
			Extending	s	≤35
	Hoisting speed (single line, 4th layer, no load)	Main winch	m/min	≥150	—
		Auxiliary winch	m/min	≥100	—

1. The total rated loads given in the rated load charts are the maximum lifting capacity when the crane is set up on firm and level ground, which includes the weight of the hook block and slings. The weight of above-mentioned devices should be deducted from the rated lifting load.
2. The working radius shown in the rated load charts is the radius when the load is lifted off the 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 is 14.1 m/s, wind pressure is 125 N/m²).
4. Before beginning lifting operation, the operator should know the weight of the load to be lifted and its working range, and then select proper working conditions. Never operate the crane beyond the limit shown in the chart. Use 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. The boom should be extended according to the telescoping code shown by digits, which means the percentage of boom sections extended.



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