

XCR25L5 Rough Terrain Crane

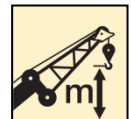
Technical specifications



25t



40m



46.6m

XCR25L5

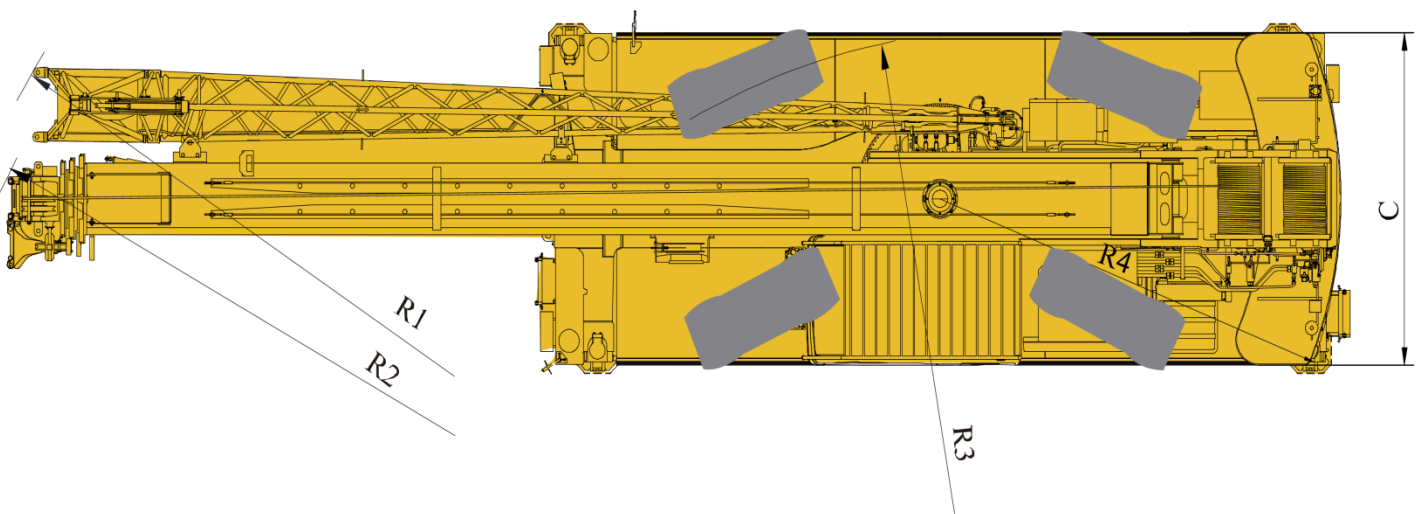
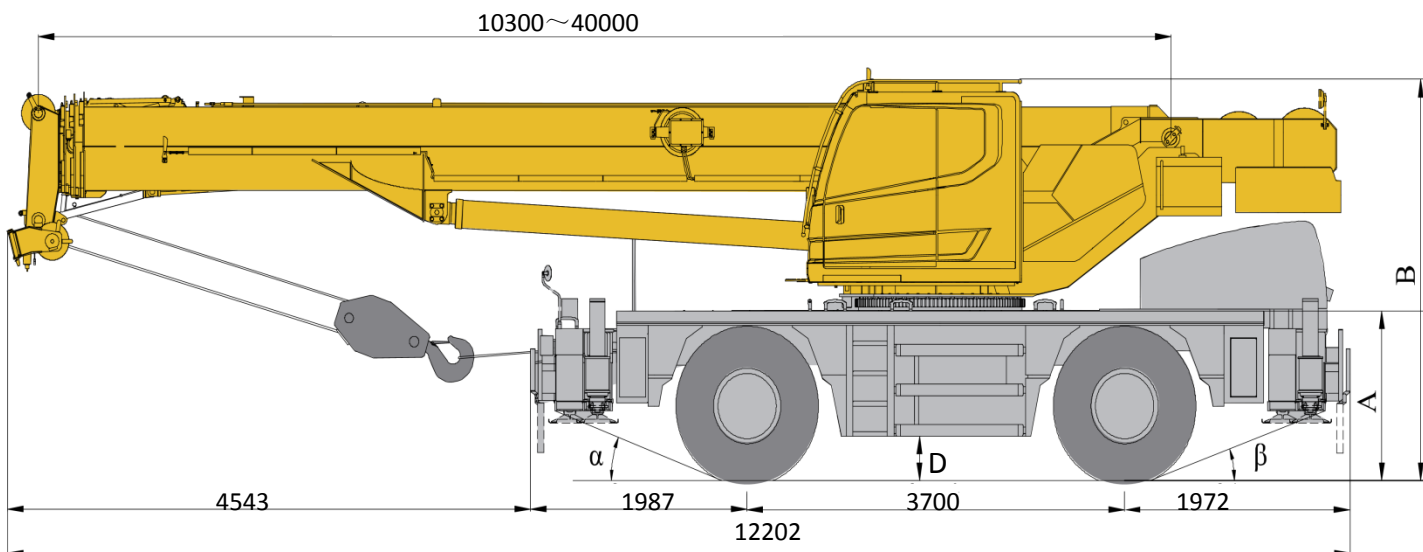
XCMG ROUGH TERRAIN CRANE

25t LIFTING CAPACITY

Contents

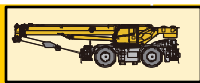
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Dimensions



	α	β	A	B	C	D	R1	R2	R3	R4
14.00R25	19.1°	19.3°	1497	3495	2850	413	9180	9049	4900	3823

Technical specifications



Boom	1 basic boom and 4-telescoping sections, U-shape cross section welding structure. Double cylinder plus ropes telescoping mechanism. 4 pulleys on boom head are standard. Boom length:10.3 m ~ 40 m.	●
Jib	One-section lattice structure. Three offset angles of 0° , 15° and 30° are available. It is stowed along the side of the boom. Jib length: 8.3m.	○
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	In line six-cylinder water-cooled compression ignition diesel engine, off-road EU Stage IIIA emission standard compliant , two kinds of configuration , meet the needs of different users : 1.Manufactured by DCEC, CHINA, QSB6.7-C190-30, rated power 142kW/2200rpm, max. torque 931Nm / 1400rpm; 2. Manufactured by Shangchai, SC7H220.1G3, rated power 162kW/2000rpm, max. torque 900Nm/ 1300rpm; Fuel tank capacity: approx. 260 L	●
Transmission	MYF210AM(CR), automatic transmission from XCMG, 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	Tire specifications: 14.00R25.	●
Steering	Front axle independent steering, tight turning radius steering, crab walk steering and rear axle independent steering modes are available.	●
Brakes	Service brake: double-circuit hydraulic disc brake, acting on all wheels. Automatically 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	Dedicated throttle control with LUDV load-sensing design is available. The min. flow of the system is more stable, and the stiffness of the system is more reasonable. Fine control and smoothness of the operation is outstanding. Confluence technology for lifting, elevating and telescoping double-pump confluence; working efficiency is ahead of all same-tonnage cranes. Double-pump independent oil supply for simultaneous movements contributes to optimized flow distribution of actuators and improved working efficiency. Tank capacity: approx. 482L.	●
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	Fixed 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. Air conditioning and heater, 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. Reversing camera and winch Monitor.	● ○
Counterweight	3.95t	●
Hook Block	20t hook block, 3t 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	Total weight
kg	14667	13733	28400 With jib
kg	14063	13997	28060 Without jib



Hook	No. of lines	Weight	Remarks
20t	7	202	Single hook
3t	1	60	Single hook

Working speeds



14.00 R 25



40



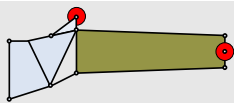
90%



Drive	Working speed	Max. single line pull	Rope diameter/ length
	0-125 m/min, no load, 4th layer	30.3kN	14mm/170m
	0-125 m/min, no load, 4th layer	30.3kN	14mm/110m
	≥2.2r/min		
	Approx. 45s for boom elevation from -1° to 80°		
	Approx. 95s for boom extension from 10.3m to 40m		

Boom / Jib combinations

Jib – 8.3m



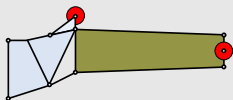
Component

Structure

Size (L×W×H) mm

(Weight kg)

First jib section



(Folded) : 8310×610×1000

340

Boom / Jib combinations

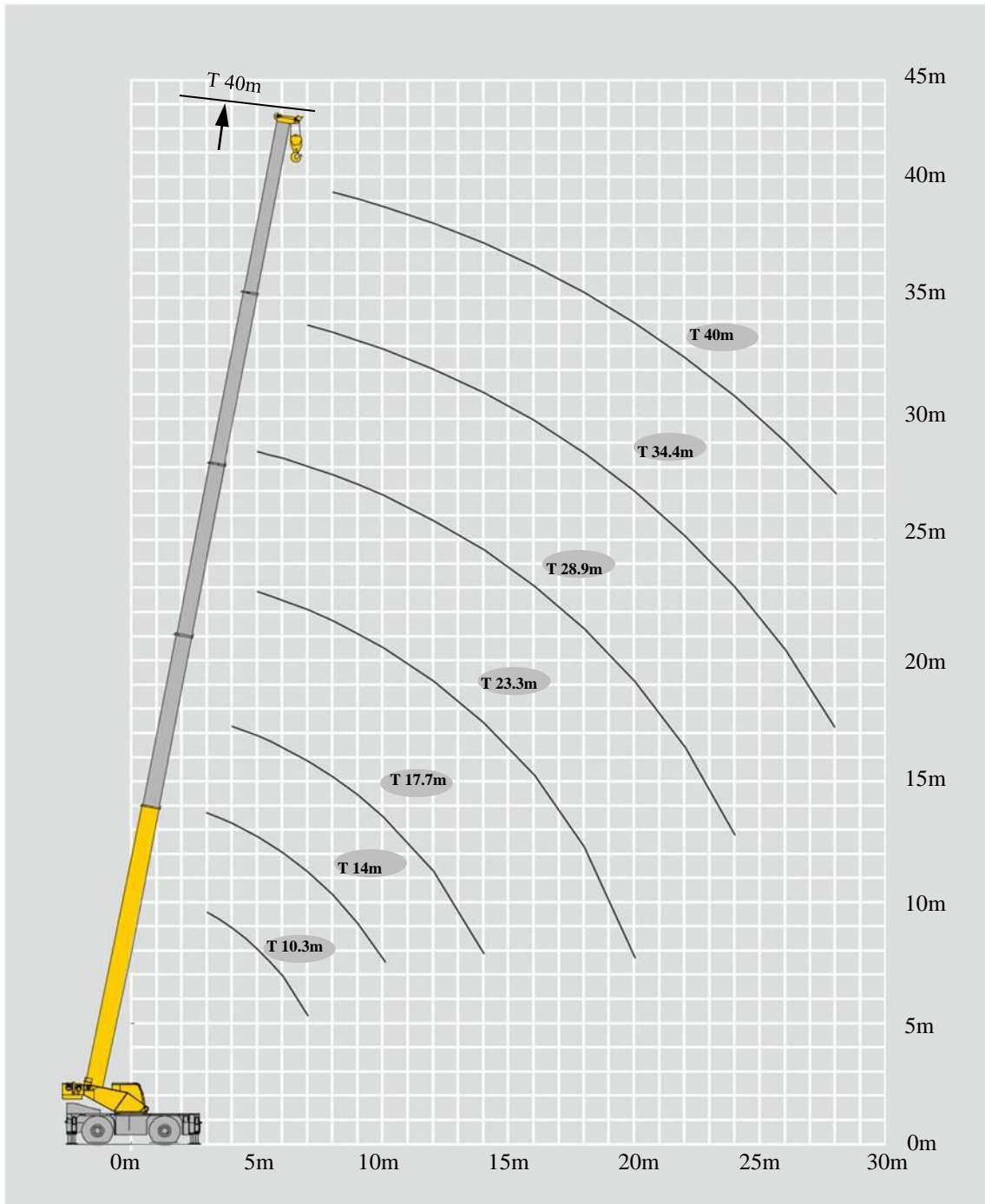


Telescopic boom

10.3m-40m

Telescopic boom + First jib section

40m+8.3m



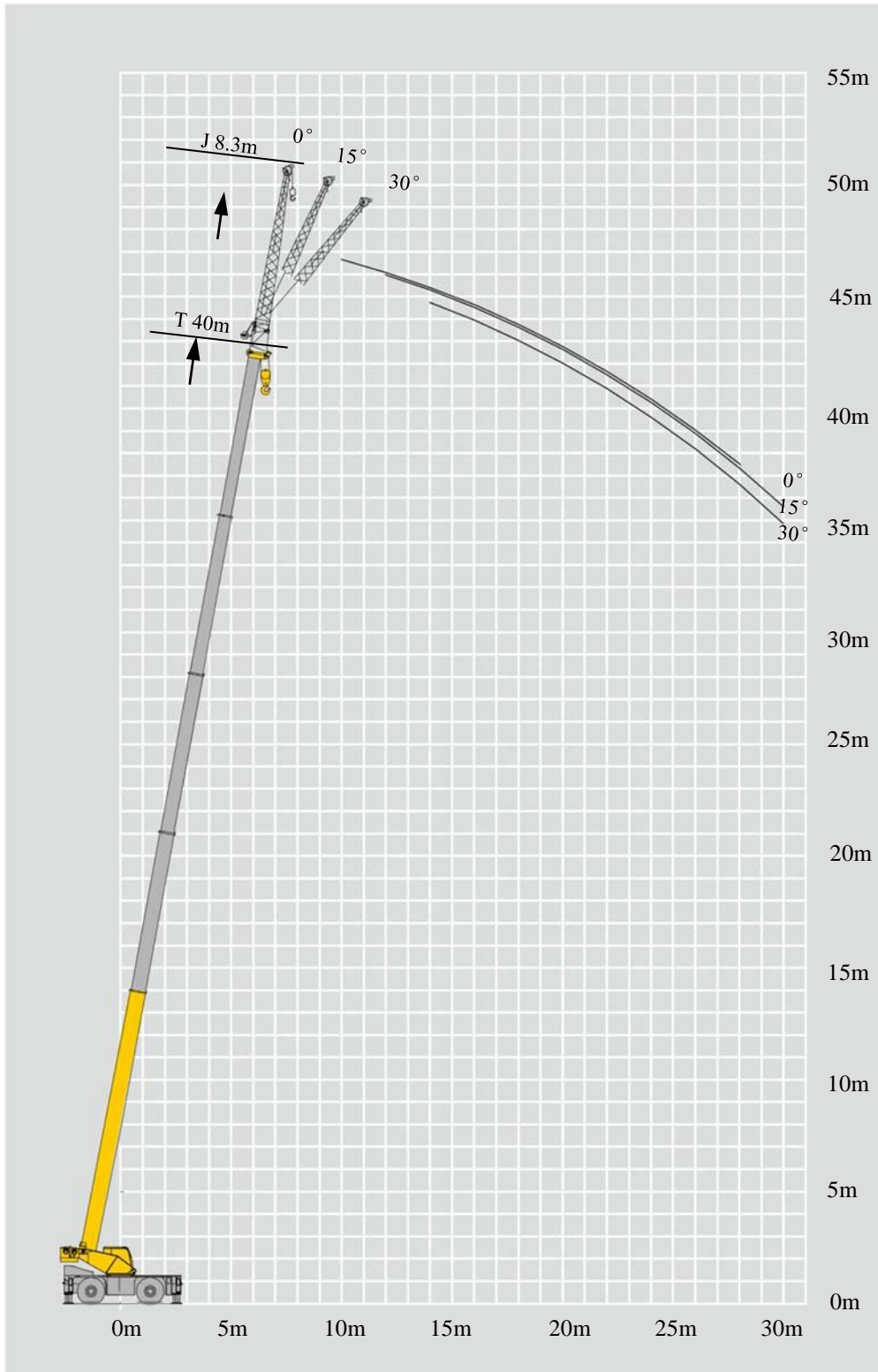
Lifting capacities

T 10.3~40m



m	10.3m	14m	17.7m	23.3m	28.9m	34.4m	40m	15.9m	21.4m	27.1m	32.6m	19.6m	25.2m	30.8m	36.3m	m
3	25*															3
3.5	24*															3.5
4	23*	20.0	18.5					14.8								4
4.5	20.0	18.0	18.5					13.6	12.0			15.0				4.5
5	18.0	17.5	17.2	12.9	10.3			12.8	11.2	9.2		14.8	12.0			5
6	15.0	14.8	15.3	11.9	9.8			11.6	10.5	9.2		13.3	11.3			6
7	12.5	13.7	13.5	10.9	9.0	7.6		10.2	9.2	8.6	6.3	11.6	10.3	8.3		7
8		10.9	10.7	9.9	8.4	6.8	5.9	10.0	8.6	7.8	6.3	10.1	9.4	7.9	6.2	8
9		8.8	8.8	9.3	7.7	6.4	5.9	9.8	8.0	7.2	6.0	8.7	8.6	7.3	6.2	9
10		7.15	7.0	7.5	7.1	6.0	5.5	8.2	7.4	6.5	5.7	7.4	7.6	6.7	5.7	10
12			4.7	5.45	6.0	5.1	4.9	6.1	5.6	5.2	4.9	5.6	5.8	5.6	5.0	12
14			3.3	3.35	4.4	4.5	4.2		4.9	4.8	4.2	4.2	4.4	4.6	4.3	14
16				2.9	3.36	3.6	3.6		3.9	4.0	3.9		3.6	3.7	3.7	16
18				2.0	2.5	2.7	3.0		3.1	3.3	3.4		2.8	2.8	3.2	18
20				1.4	1.8	2.1	2.3			2.7	2.8		2.2	2.2	2.6	20
22					1.3	1.6	1.8			2.2	2.3		1.6	1.7	2.0	22
24					0.9	1.2	1.4				1.9			1.3	1.6	24
26						0.8	1.0				1.6			0.9	1.2	26
28							0.7								1.0	28
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



*special equipment is required



Lifting capacities



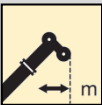











J 8.3m



 m	Lifting Capacity (t)			 m
	0°	15°	30°	
10	2.7			10
12	2.5	2		12
14	2.3	1.8	1.3	14
16	2.1	1.8	1.3	16
18	2	1.7	1.2	18
20	1.7	1.6	1.1	20
22	1.5	1.5	1	22
24	1.3	1.4	1	24
26	1	1.2	0.9	26
28	0.8	0.9	0.8	28
30		0.8	0.7	30

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
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Table of main technical parameters

Category	Item		Unit	Parameter		Allowance
Dimensions	Outline size (length×width×height)		mm	12202×2850×3495		±1%
	Wheel base		mm	3700		±1%
	Track (Front/ Rear)		mm	2300/2300		±1%
	Front/ Rear overhang		mm	1987/1972		±1%
	Front/ Rear extension		mm	4543/0		±1%
Weight	Total vehicle mass in travel configuration (with jib)		kg	28400		±3%
	Axle load	1st axle	kg	14667		±3%
		2nd axle	kg	13733		±3%
	Total vehicle mass in travel configuration (without jib)		kg	28060		±3%
	Axle load	1st axle	kg	14063		±3%
		2nd axle	kg	13997		±3%
Power	Engine model		—	QSB6.7-C190-30	SC7H220.1G3	—
	Engine rated power/ rpm		kW/(r/min)	142/2200	162/2000	—
	Engine rated torque/rpm		N.m/(r/min)	931/1400	900/1300	—
Travel	Max. travel speed		km/h	≥40		—
	Min. travel speed		km/h	2.3		—
	Min. turning diameter		m	≤4.9		—
	Min. ground clearance		mm	413		±1%
	Approach angle		°	19.1		±1°
	Departure angle		°	19.3		±1°
	Braking distance (at 24 km/h)		m	≤9		—
	Max. grade ability		%	≥90		—

Table of main technical parameters

Category	Item		Unit	Parameter	Allowance	
Main performance	Max. total rated lifting capacity		t	25	±5%	
	Min. rated working radius		m	3	±1%	
	Turning radius at turntable tail	Counterweight	mm	3823	±1%	
	Max. load moment	Base boom	kN.m	901.6	±5%	
		Fully-extended boom	kN.m	576.2	±5%	
	Outrigger span	Longitudinal	m	6.8	±1%	
		Lateral	m	6.8	±1%	
	Hoist height	Base boom	m	9.6	±1%	
		Fully-extended boom	m	39.4	±1%	
		Fully-extended boom + Jib	m	46.6	±1%	
	Boom length	Base boom	m	10.3	±1%	
		Fully-extended boom	m	40	±1%	
		Fully-extended boom + Jib	m	48.3	±1%	
Jib offset angle			°	0°、15°、30°	—	
Working speed	Boom raising time		s	≤45	—	
	Boom fully extending time		s	≤95	—	
	Max. slewing speed		r/min	≥2.2	—	
	Outrigger extending and retracting time	Outrigger beam	Retracting	s	≤25	—
			Extending	s	≤35	—
		Outrigger jack	Retracting	s	≤30	—
			Extending	s	≤35	—
	Hoisting speed (single line, 4th layer, no load)	Main winch	m/min	≥125	—	
Auxiliary winch		m/min	≥125	—		

Notes

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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XCR25L5 Rough Terrain Crane

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xcmg@ronco.com.au