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XCR55L5 Rough Terrain Crane





55t



43.6m



57.1m

XCR55L5

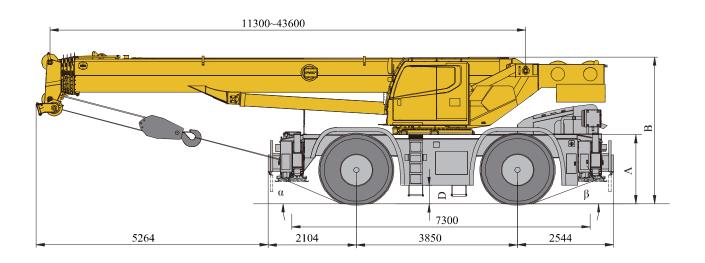
XCMG ROUGH TERRAIN CRANE
55t LIFTING CAPACITY

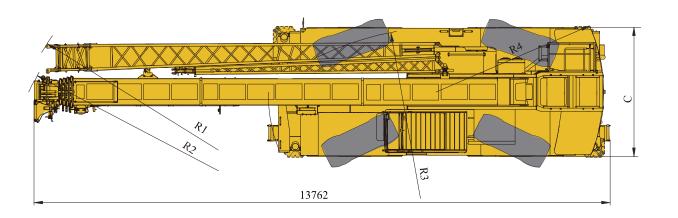


Contents

Contents	
Dimensions	3
Technical specifications	4-5
Weight / Working speeds	6
Counterweight	7
Boom / Jib combinations	8-9
Boom	10-11
Jib	12-13
Description of symbols	14
Table of main technical parameters	15-16
Notes	17

Dimensions





	α	β	A	В	C	D	R1	R2	R3	R4
23.5R25	26°	20.5°	1612	3590	3000	445	10820	10647	6000	4158

Technical specifications

			Hydraulic system	A dual-variable displacement pump, used for hoisting, elevating and telescoping operations, and a	
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:11.3m ~ 43.6m.	•		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.	
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.	•	Operating mode	Tank capacity: approx. 864 L. Hydraulic controlled pilot operation system is equipped with two levers controlling the main movements of the crane.	D
Frame	Made of high strength fine grained steel, welded torsion-resistant frame type construction with large cross-section, high	•	Electrical System	24 V DC, two sets of 12 V battery in series.	D
Outrigger	load-bearing capacity. 4 outriggers, H-shaped arrangement, which are controlled by electrical and hydraulic and located at both sides of chassis frame.		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.	D
Engine	SC7H220G3, in line six-cylinder water-cooled compression ignition diesel engine, manufactured by Shangchai, rated power 162/2200(kW/(r/min)), max. torque 860/(1400)(N.m/(r/min)), off-road EU	•	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.	D
	Stage IIIA emission standards Fuel tank capacity: Approx. 305 L.		Operator's cab	Tiltable cab, with sliding door and adjustable seat equipped. It is equipped with safe glass and roof	
Gearbox	AWG180, automatic transmission imported from hangzhou, with 6 forward and 3 reverse gears available.	•		protective grille. Sun shade is available for windshield and roof window.	D
Axles	Both front and rear axles are for driving and steering, and the axles have features of great load bearing capacity.	•		Heater and air conditioner, radio, 12 V and 24 V DC outlets are standard.	
Suspension	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.	•	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.	D
Tires	4 specialized off-road, large bearing		Counterweight	The counterweight weight is 7.5 t.	D
	capacity. Tire specifications: 23.5R25.		Hook Block	55 t hook, 5t hook block	
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.		-	list is as mentioned above. o the product quotation for	

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

Symbol explanation:

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

Automatically braking and alarm are available when the pressure in braking

on front axles, hydraulic-released

independent disc brake.

system is too low.
Parking brake: spring-loaded brake, acting

Weight



Axle	Front Axle	Rear Axle	Total weight
t	21.135	20.465	41.600



Hook	No. of lines	Weight (kg)	Remarks
55t	12	522	Single hook
5	1	100	Single hook

Working speeds









67%



Drive	Working speed	Max. single line pull	Rope diameter/ length
	0-150 m/min, no load, 4th layer	51kN	18mm/192m
	0-130 m/min, no load, 4th layer	51kN	18mm/130m
360 2	0-2r/min		
1			

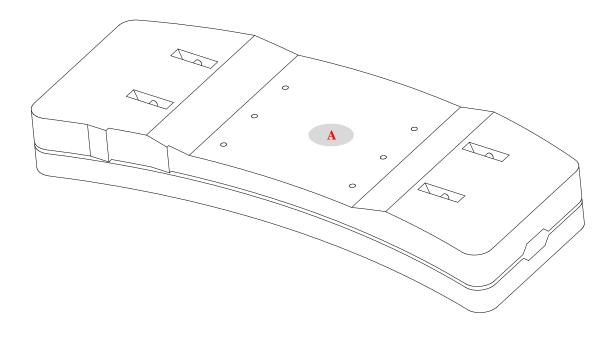


Approx. 45s for boom elevation from -1.5° to 80°



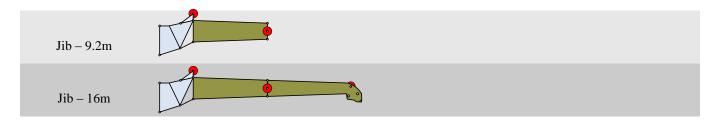
Approx. 80s for boom extension from 11.3m to 43.6m

Counterweight



	ı
Counterweight	A
Size (L×W×H) mm	2980×1253×380
Weight t	7.5

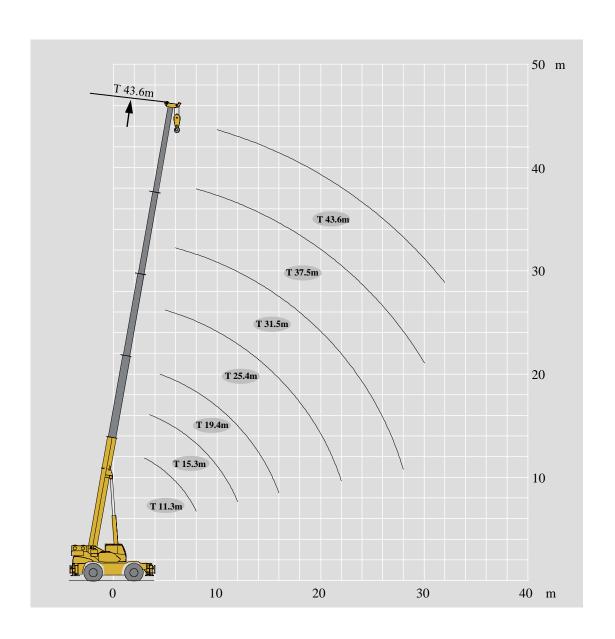
Boom / Jib combinations



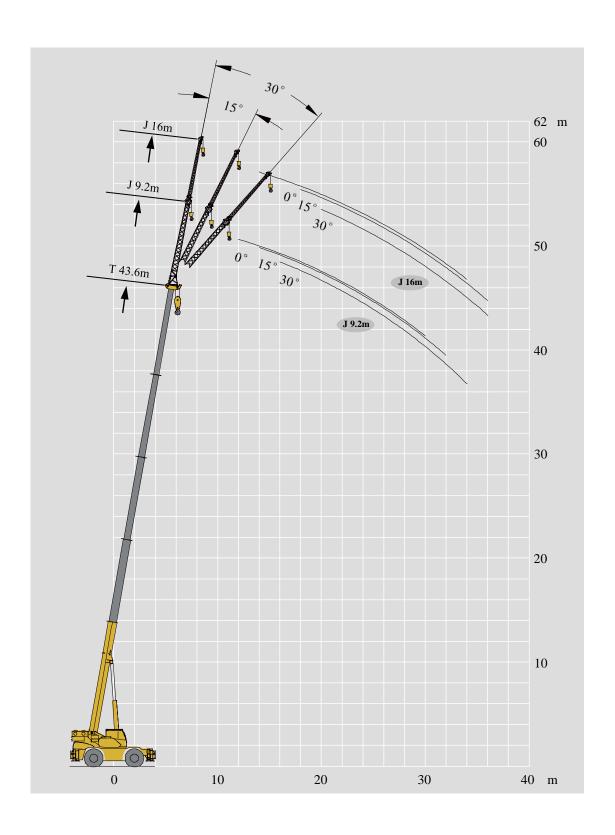
Component	Structure	Size (L×W×H) mm	(Weight kg)
First and second jib section assembly + Connecting bracket		Folded: 9784×950×1263	932

Boom / Jib combinations





	11.3-	43.6m	[~]	30	60°	7.5t										
	11 3m	T 15.3m	7.3m×7.2i		31.5m	37.5m	13.6m	17 /m	23 Am	20 5m	35 5m	21 /m	27 5m	33 5m	39.6m	
→ m	55.0	13.3111	17.7111	23.7111	31.3111	37.3111	43.0111	1 / • 7111	23.4111	29.3III	<i>33.3</i> 111	21.7111	47.3111	33.3III	39.0III	→ m
3.5	51.5	45.0						24.0								3.5
4	47.5	43.0						24.0				24.0				4
4.5	43.0	40.0	33.0					24.0	25.0			24.0				4.5
5	41.5	37.5	31.5	22.5				24.0	25.0			24.0	24.5			5
6	31.0	33.0	25.0	22.5	17.5			24.0	23.2	16.5		24.0	24.5			6
7	27.6	27.0	22.5	19.0	17.5			24.0	21.6	15.4	12.3	24.0	23.2	15.9		7
8	21.5	21.0	20.5	16.6	16.5	12.0		23.6	20.2	14.2	11.7	23.0	21.8	15.0		8
9		16.5	16.4	14.7	13.5	11.2		18.7	18.8	13.2	11.0	18.1	18.8	14.1	11.1	9
10		13.4	13.2	12.6	10.5	8.7	9.0	15.2	15.9	12.2	10.4	14.7	15.4	13.2	10.4	10
12		9.2	8.9	10.0	9.5	8.2	7.4	10.8	11.4	10.6	9.4	10.3	11.0	11.3	9.7	12
14			6.3	7.3	7.9	7.3	6.5	8.1	8.6	9.0	8.3	7.6	8.2	8.6	8.8	14
16			4.5	5.5	6.0	6.6	5.9		6.8	7.1	7.3	5.8	6.3	6.7	6.9	16
18				4.1	4.7	5.0	5.3		5.4	5.7	5.9	4.4	5.0	5.3	5.5	18
20				3.1	3.6	4.0	4.2		4.3	4.6	4.9		3.9	4.3	4.5	20
22				2.3	2.8	3.2	3.4			3.8	4.1		3.1	3.5	3.6	22
24					2.2	2.5	2.8			3.2	3.4		2.5	2.8	3.0	24
26					1.7	2.0	2.2			2.6	2.8			2.3	2.4	26
28					1.2	1.5	1.8				2.4			1.8	2.0	28
30						1.2	1.4				2.0			1.4	1.6	30
32							1.1				1.7				1.3	32
34															1.0	34
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



<u> </u>	43.6 m 9.2m 7.3m×7.2 m	7.5t 43.6 m+9.2m		<u>*</u>
→ m	0°	15°	30°	→ m
12	5.0			12
14	4.8	3.2		14
16	4.5	3.1	2.5	16
18	4.0	3.0	2.4	18
20	3.2	2.9	2.2	20
22	2.6	2.7	2.2	22
24	2.1	2.3	2.0	24
26	1.7	1.9	1.9	26
28	1.4	1.5	1.8	28
30	1.1	1.2	1.6	30
32		0.9	1.2	32
34			0.9	34

	43.6 m 16m 7.3m×7.2 m	7.5t		
		43.6 m+16m		
→ m	0°	15°	30°	→ m
14	2.9			14
16	2.8			16
18	2.7	1.9		18
20	2.5	1.8	1.3	20
22	2.3	1.7	1.2	22
24	2.1	1.5	1.2	24
26	1.9	1.4	1.2	26
28	1.7	1.3	1.1	28
30	1.6	1.3	1.1	30
32	1.2	1.2	1.0	32
34	0.9	1.2	1.0	34
36		1.0	0.8	36

Description of symbols

Boom

Symbol glos	ssary		
	Outriggers	 	Axle
m m	Radius	km/h	Driving speed
	Boom angle	A CONTRACTOR OF THE PARTY OF TH	Grade ability
41	Boom length		Tires
9	Hook block		Counterweight
360°	360° rotation		Superstructure
	Winch		Chassis
Crane spec	ific symbols		

Jib

Table of main technical parameters

Category	Item		Unit	Parameter	Allowance
	Outline size (length×width×height)		mm	13762×3000×3590	±1%
Dimensions	Wheel base		mm	3850	±1%
	Track (Front/Rear)		mm	2330/2330	±1%
	Front/ Rear overhang		mm	2104/2544	±1%
	Front/ Rear extension		mm	5264/0	±1%
Weight	Total vehicle mass in travel configuration		kg	41600 (7.5 t counterweight)	±3%
	Axle load	1st axle	kg	21135	±3%
		2nd axle	kg	20465	±3%
Power	Engine model			SC7H220G3	-
	Engine rated power/rpm		kW/(r/min)	162/2200	-
	Engine rated torque/rpm		N.m/(r/min)	860/ (1400)	-
Travel	Max. travel speed		km/h	35	≥
	Min. travel speed		km/h	1.8	≤
	Min. turning diameter		m	≤12	-
	Min. ground clearance		mm	445	±1%
	Approach angle		0	26	±1%
	Departure angle		0	20.5	±1%
	Braking distance (at 24 km/h)		m	9	≤
	Max. grade ability		%	67	<u> </u>

Table of main technical parameters

Category		Item	Unit	Parameter	Allowance	
Main performance	Max. total rated lifting	t	55	±5%		
	Min. rated working rad	m	3	±1%		
	Turning radius at turntable tail	Counterweight		mm	4158	±1%
	Max. load	Base boom		kN.m	2033.5	±1%
	moment	Fully-extended boom		kN.m	934.9	±1%
		Longitudinal		m	7.3	±1%
	Outrigger span	Lateral		m	7.2	±1%
		Base boom		m	11.9	±1%
	Hoist height	Fully-extended boom		m	43.7	±1%
		Fully-extended boom + Jib		m	57.1	±1%
		Base boom		m	11.3	±1%
	Boom length	Fully-extended boom		m	43.6	±1%
		Fully-extended boom + Jib		m	59.6	±1%
	Jib of	ffset angle	0	0、15、30	±1%	
	Boom r	S	45	<u> </u>		
	Boom fully e	extending time	S	80	≤	
	Max. sle	wing speed	r/min	2	≤	
	Outrigger extending and retracting time	Outrigger beam	Retracting	S	20	≤
Working speed			Extending	S	30	<u> </u>
		Outrigger jack	Retracting	S	30	≤
			Extending	S	35	≤
	Hoisting speed (single	Main winch		m/min	150	≥
	line, 4th layer, no load)	Auxiliary winch		m/min	130	>

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/m^2).
- 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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