XCR130_U

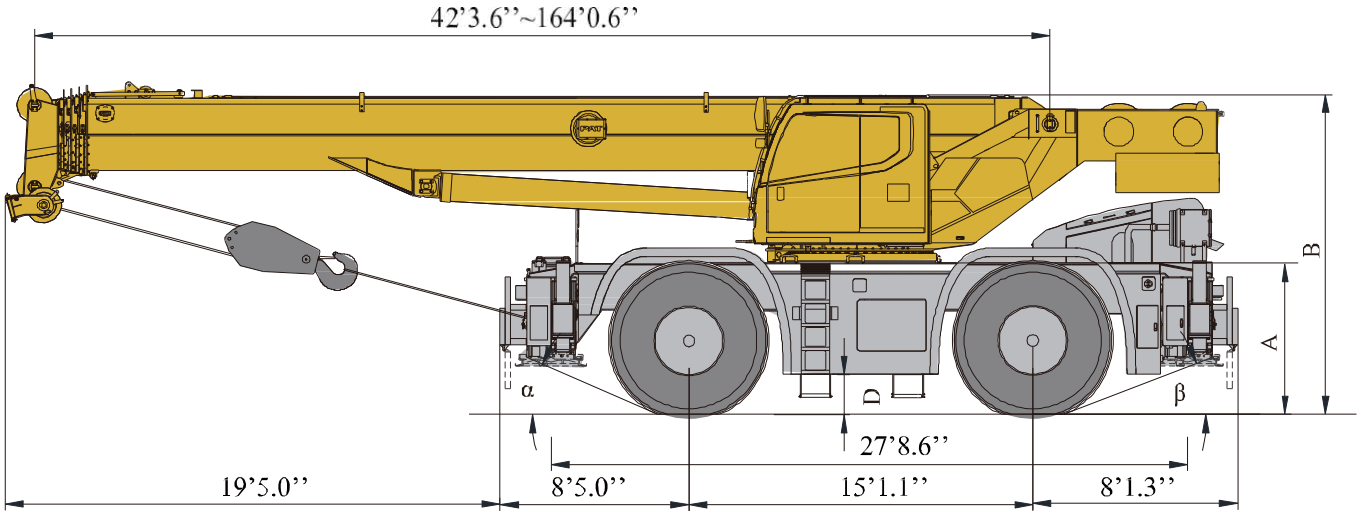
Rough Terrain Crane

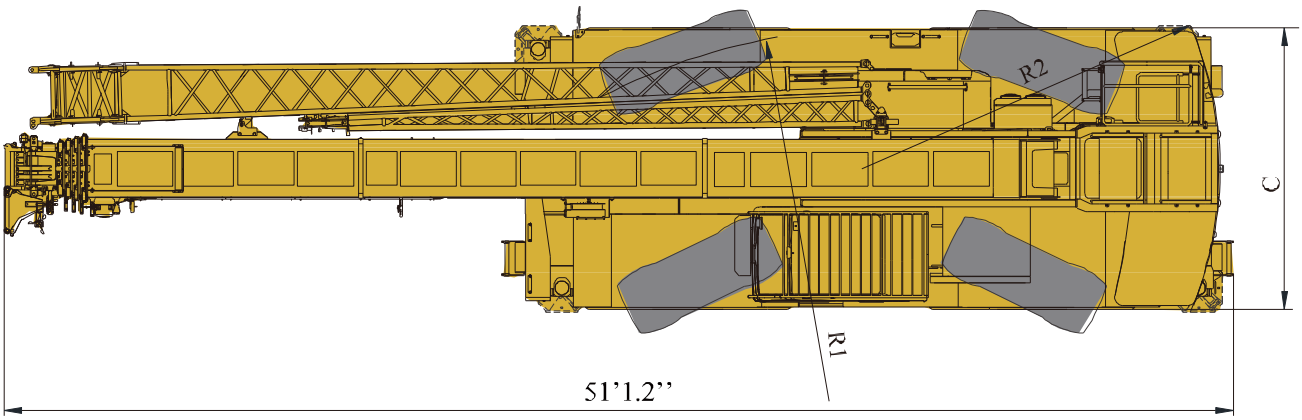
Technical Specifications

max	129USt		164ft		212.5ft

Contents

Dimensions





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:42.3ft～164.0ft.	●
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 35.4ft～60.0ft.	●
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	QSL,in line, six-cylinder water-cooled compression ignition diesel engine, manufactured by Cummins, with rated power of 300/2200(bhp/(r/min)), max. torque of 1020/1500(lb.ft/(r/min)), U.S. EPA Tier emission standard compliant Fuel tank capacity: approx. 80.6gal	●
Transmission	6WG260, 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: 875/65R29.	●
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. 323.6gal.	●
Operating mode	Electrically controlled operating 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 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.	●
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	Tiltable 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.	●
Counterweight	35274lb.	●
	15432lb.	○
Hook Block	65USt hook block，7.5USt hook block.	●
	120USt 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

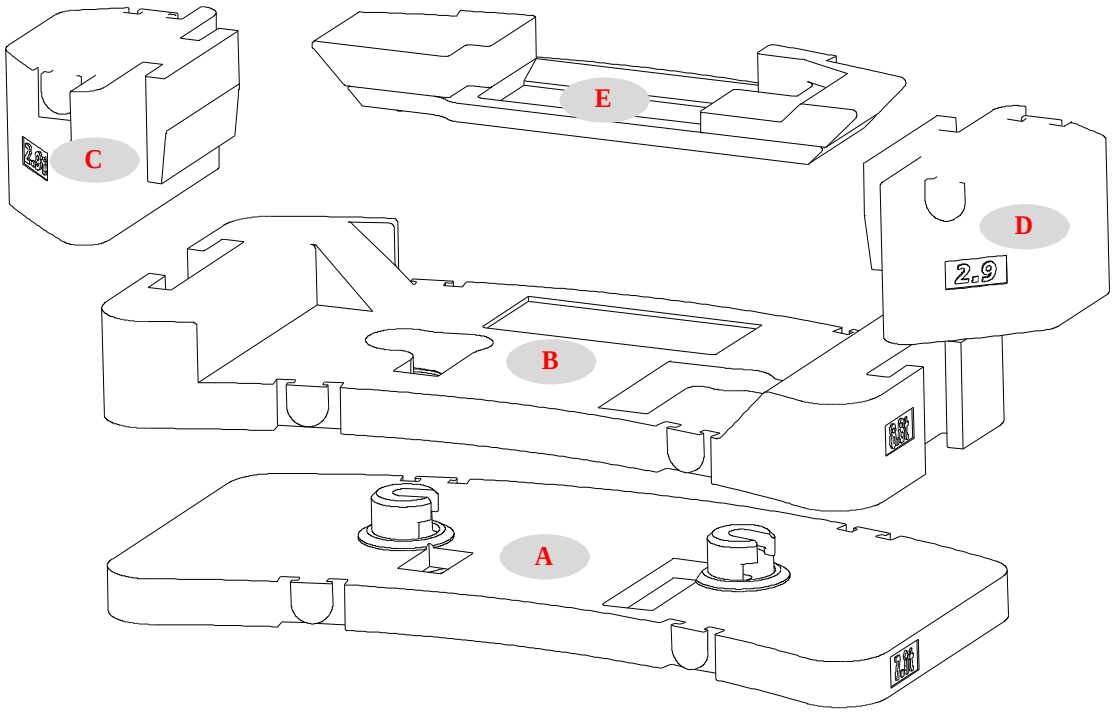
Axle	1	2	Total Weight (lbs)
lb	77529	76899	154428 (35274lbcounterweight)
	72220	97642	169862 (35274lb Counterweight + Optional 15432lb Counterweight)

Hook	No. of lines	Weight(lb)	Remarks
120USt	14	2,381	Double hook
65USt	8	1,036	Single hook
7.5USt	1	463	Single hook

875/65R29	18.6	80%

Drive	Working speed	Max. single line pull	Rope diameter/length
1	0-475.6 ft/min,noload,4thlayer	22256lbf	0.8661in/820ft
2	0-295.2 ft/min,noload,3thlayer	15961lbf	0.8661in/492ft
360°	0-2r/min		
	Approx. 55s for boom elevation from 20° to 80°		
	Approx. 125s for boom extension from 43.2ftm to 164.0ft		

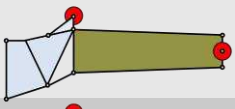
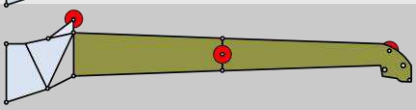
Counterweights

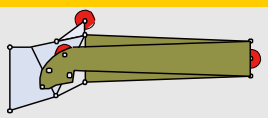


Counterweight	A	B	C （optional）	D (optional)	E (optional)
Size（L×W×H）ft	11.4×6.3×0.6	11.4×6.3×1.5	4.1×2.6×2.1	4.1×2.6×2.1	8.1×2.4×0.8
Weight lb	15874	19400	6393	6393	2646

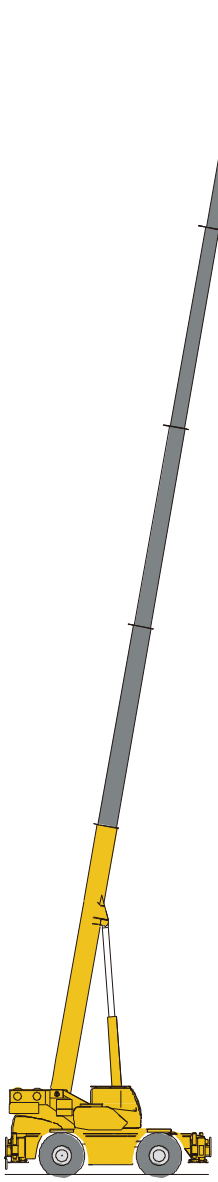
Working mode	0lb	35274lb	50706lb (optional)
Combinations	——	A+B	A+B+C+D+E

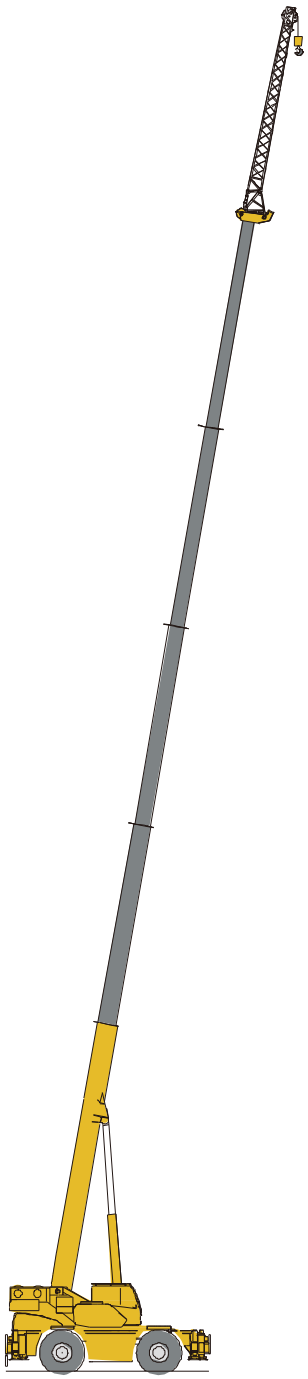
Boom/Jib Combinations

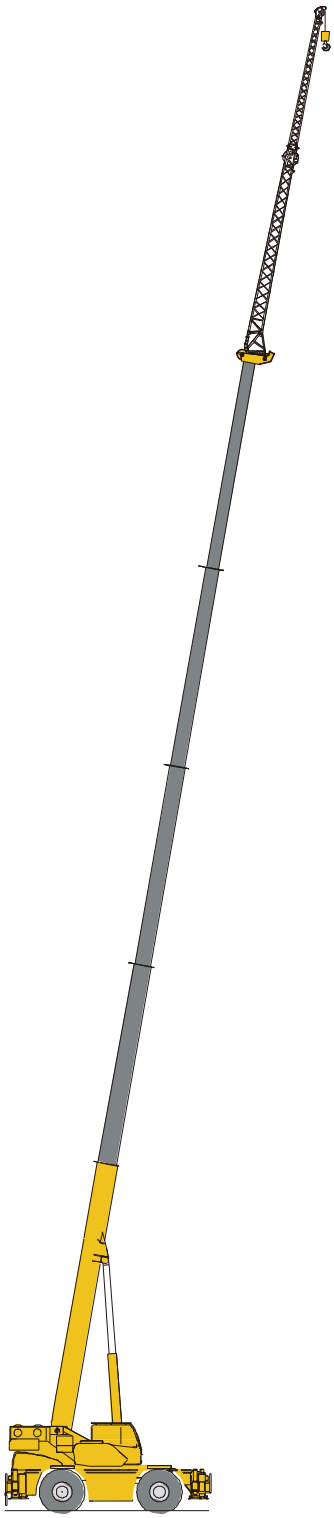
Jib–35.4ft	
Jib–60.0ft	

Component	Structure	Size（L×W×H） ft	（Weight lb）
First and second jib section assembly + Connecting bracket		（Folded）：36.4×3.0×4.4	2932

Boom/Jib Combinations





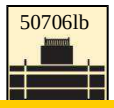


Telescopic boom	Telescopic boom + First jib section	Telescopic boom + First and second jib sections
42.3ft~164.0ft	164.0ft+35.4ft	164.0ft+60.0ft

Lifting Capacities

T42.3~164.0ft



42.3 -164.0ft 27.7ft×27.6ft

	42.3ft	57.4ft	65.3ft	72.8ft	95.4ft	118.4ft	141.0ft	164.0ft	87.9ft	110.9ft	133.5ft	80.4ft	103.3ft	126.0ft	148.9ft	
8.2	257938*															8.2
9.84	220460															9.84
13.12	202823															13.12
16.4	158731	154322	143299													16.4
19.68	132276	131174	120812	123458					87302			87302				19.68
22.96	116844	119269	112655	117946	81570	68343	42769		88845	61729	46738	89507	66358	51367		22.96
26.24	100089	101853	95459	99207	81570	67240	42990		82673	57981	45415	91932	67240	49604		26.24
29.52	85979	88845	88184	87302	77161	60627	42990		77602	54454	43651	88404	61729	47619	38360	29.52
32.8		77381	76720	76059	68343	60847	41667	31305	72972	41226	41226	78263	58422	44974	38360	32.8
39.36		43431	42990	42769	51367	43210	34171	27558	55997	37258	34171	52690	44533	32628	33730	39.36
45.92		32187	31746	31305	42549	35715	34612	29542	44974	33951	26896	35053	44753	29321	35053	45.92
52.48			26896	24030	33069	27778	24692	27337	35053	30864	23810	27337	36155	26235	31085	52.48
59.04				18519	20944	22487	22266	26455	24471	25132	21605	21826	23369	23589	27998	59.04
65.6					16975	18298	19180	23810	20282	21164	19621	17857	19180	20062	20282	65.6
72.16					13669	15212	16094	20944	17196	17857	17637		16094	16975	17416	72.16
78.72					11243	12787	13448	17637		15212	15873		13448	14330	14771	78.72
85.28						10582	11464	11905		13228	13669		11464	12125	12787	85.28
91.84						8818	9700	10141		11464	11905			10362	11023	91.84
98.4						7496	8157	8818			10582			9039	9480	98.4
104.96							6834	7496			9259			7716	8377	104.96
111.52							5732	6393			8157			6614	7055	111.52
118.08							4850	5512			7275				6173	118.08
124.64							3968	4630							5291	124.64
131.2								3968							4630	131.2
137.76								3086								137.76
144.32								2646								144.32
2nd	0%	50%	75%	100%	100%	100%	100%	100%	0%	0%	0%	50%	50%	50%	50%	2nd
3rd	0%	0%	0%	0%	25%	50%	75%	100%	50%	75%	100%	25%	50%	75%	100%	3rd
4th	0%	0%	0%	0%	25%	50%	75%	100%	50%	75%	100%	25%	50%	75%	100%	4th
5th	0%	0%	0%	0%	25%	50%	75%	100%	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 14 parts of line.

Description of Symbols

Symbol Glossary

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

Crane Specific Symbols

	Boom		Jib

Table of Main Technical Parameters

Category	Item		Unit	Parameter		Allowance
				(35274lb counterweight)	(50706lb counterweight)	
Dimensions	Outline size（length × width × height）		ft	51.1×11.4×13.1		±1%
	Wheel base		ft	15.1		±1%
	Track（Front/ Rear ）		ft	8.5/8.5		±1%
	Front/ Rear overhang		ft	8.4/8.1		±1%
	Front/ Rear extension		ft	19.4/0.1		±1%
Weight	Total vehicle mass in travel configuration		lb	154428	169862	±3%
	Curb weight		lb	154263	169697	
	Axle load	1st axle	lb	77529		±3%
		2nd axle	lb	76899		±3%
Power	Engine model		——	QSL		—
	Engine rated power/rpm		bhp/(r/min)	300/2200		—
	Engine rated torque/rpm		lb.ft/(r/min)	1020/1500		—
Travel	Max. travel speed		mph	≥18.6		—
	Min. travel speed		mph	1.2		—
	Min. turning diameter		ft	≤27.6		—
	Min. ground clearance		ft	1.5		±1%
	Approach angle		°	21		±1°
	Departure angle		°	22		±1°
	Braking distance (at 14.9mph)		ft	≤29.5		—
	Max. grade ability		%	≥80		—

Note: With counterweight of 35274lb+15432lb attached, jobsite transfer for a short distance is allowed, but travel speed is not more than 3.1mph.

Table of Main Technical Parameters

Category	Item			Unit	Parameter	Allowance
Main performance	Max. total rated lifting capacity			USt	257938	±5%
	Min. rated working radius			ft	8.2	±1%
	Turning radius at turntable tail	Counterweight		ft	16.0	±1%
	Max. load moment	Base boom		ft·lb	2632	±5%
		Fully-extended boom		ft·lb	1562	±5%
	Outrigger span	Longitudinal		ft	27.7	±1%
		Lateral		ft	27.6	±1%
	Hoist height	Base boom		ft	43.6	±1%
		Fully-extended boom		ft	163.3	±1%
		Fully-extended boom + Jib		ft	212.5	±1%
	Boom length	Base boom		ft	42.3	±1%
		Fully-extended boom		ft	164.0	±1%
		Fully-extended boom + Jib		ft	224.0	±1%
	Jib offset angle			°	0°、15°、30°	—
Working speed	Boom raising time			s	≤55	—
	Boom fully extending time			s	≤125	—
	Max. slewing speed			r/min	≥2	—
	Outrigger extending and retracting time	Outrigger beam	Retracting	s	≤25	—
			Extending	s	≤30	—
		Outrigger jack	Retracting	s	≤40	—
			Extending	s	≤45	—
	Hoisting speed (single line, 4th layer, no load)	Main winch		fpm	≥475.6	—
		Auxiliary winch		fpm	≥295.2	—

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 46.2ft/s, wind pressure is 142.2psi).

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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