



**PRODUCT
SPECIFICATIONS**

SRC1100T

110 METRIC TON Rough Terrain Crane

QUALITY CHANGES THE WORLD



Max. Lifting Capacity: 110t



Max. Boom Length: 56m



Max. Grade ability: 75%

MORE THAN HEAVY LIFTING

V1.5

Model **SRC1100T** | SERIES

SRC1100T

ROUGH TERRAIN CRANE



Strong structure

The U-shape boom is designed with increased capacity, enhanced stability, and decreased weight.



Simple and convenient jib mounting to increase the efficiency

Jib swingout process only needs ONE operator. Only need 15mins to unfold and retract the jib with an experienced operator, which saves a half time than before. Optimized structure of new design assists the jib mounting and operation.



Intelligent control

Newly-developed T-box, specially designed for fleet management, is used for collecting data and controlling parameter download. With the GSP features and Irootech cloud communication.

Remote control of counterweight and jib



Operator's cab



- The new design of windshield ensures safety and comfortable operation.
- Full-vision operator's cab with wider interior room.
- three stages of seat adjusting.
- New generation of smart control system.



Tiltable Cab

The cab can be tilted from 0° to 20° during operation for more comfortable control.



Extra-wide aluminum alloy access deck and ladder Rotatable footstep.

Smart control and advanced display

The 10.1" LMI display can adjust the lightness of screen. It has the function of screen mirroring with smart phone. (Requires Android 8.0 and later) and connect to camera to monitor the operation.



Technical Parameters

Hook

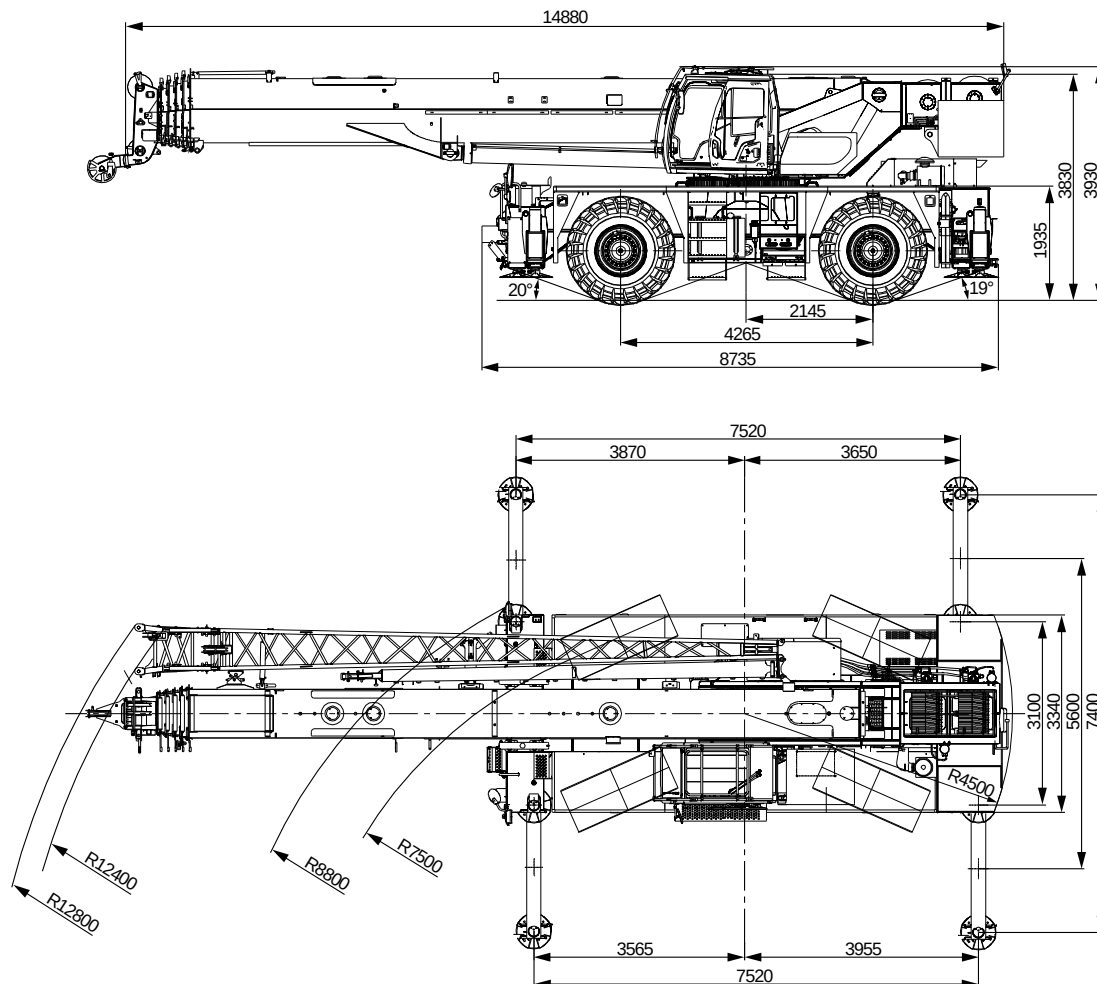
Rated load/t	Number of sheaves	Rope rate	Hook weight /kg	Remark
110	8	16	1185	○
90	6	12	830	○
70	5	8	700	●
50	4	6	595	○
8	-	-	160	●

● Standard ○ Optional

Operation

Item	Max.single rope lifting speed (empty load)	Rope diameter/length	Max. single line pull
Main winch	145m/min	Φ20mm/300m	73.6kN
Auxiliary winch	145m/min	Φ20mm/165m	73.6kN
Slewing speed	1.6r/min		
Full luffing up/down time of boom	70s/72 s		
Full extension/retraction time of boom	350s/360s		
Outrigger	Outrigger jack	Retraction	32s
		Extension	30s
	Outrigger beam	Retraction	15s
		Extension	23s

Overall Dimensions



Technical Specification

Category	Item	Unit	Value
Capacity	Max. lifting capacity	t	110
Weight	Gross weight	kg	56000
Power	Engine model	-	Cummins QSB6.7 (Tier III)
	Max. engine power	kW/rpm	194/2400
	Max. engine torque	N-m/rpm	990/1500
Dimensions	Overall length	mm	14880
	Overall width	mm	3340
	Overall height	mm	3930
Travel	Max. travel speed	km/h	33
	Wheel formula	-	4×4, 4×2
	Min. ground clearance	mm	548
	Approach angle	°	20
	Departure angle	°	19
	Max. gradeability	-	75
	Fuel consumption per 100km	L	65

Category	Item		Unit	Value
Main Performance	Working temperature range		°C	-30 ~ +50
	Min. rated lifting radius		m	2.5
	Tail slewing radius		m	4.5
	Boom sections (Qty.)		-	6
	Boom shape		-	U shape
	Max. lifting moment	Basic boom	kN-m	3057
		Full-extension boom	kN-m	1393
		Full-extension boom + jib	kN-m	1195
	Boom length	Basic boom	m	12.5
		Full-extension boom	m	56
		Full-extension boom + jib	m	74
	Max. lifting height	Basic boom	m	12.5
		Full-extension boom	m	56
		Full-extension boom + jib	m	74
Outrigger span (Longitudinal×Transverse)		m	7.52×7.44	
Jib offset		°	0, 20, 40	
Air conditioner	In operator's cab		-	Heating & cooling

Optional equipment

Conditions	Option A	Option B	Option C
Desert	Desert air filter	Air inlet shutoff	Inflator
Oil field	Anti sparking device	Chassis water heater	-
Extreme cold	Low temperature kit		
Other	Reversing camera	Winch monitor	Hook monitor

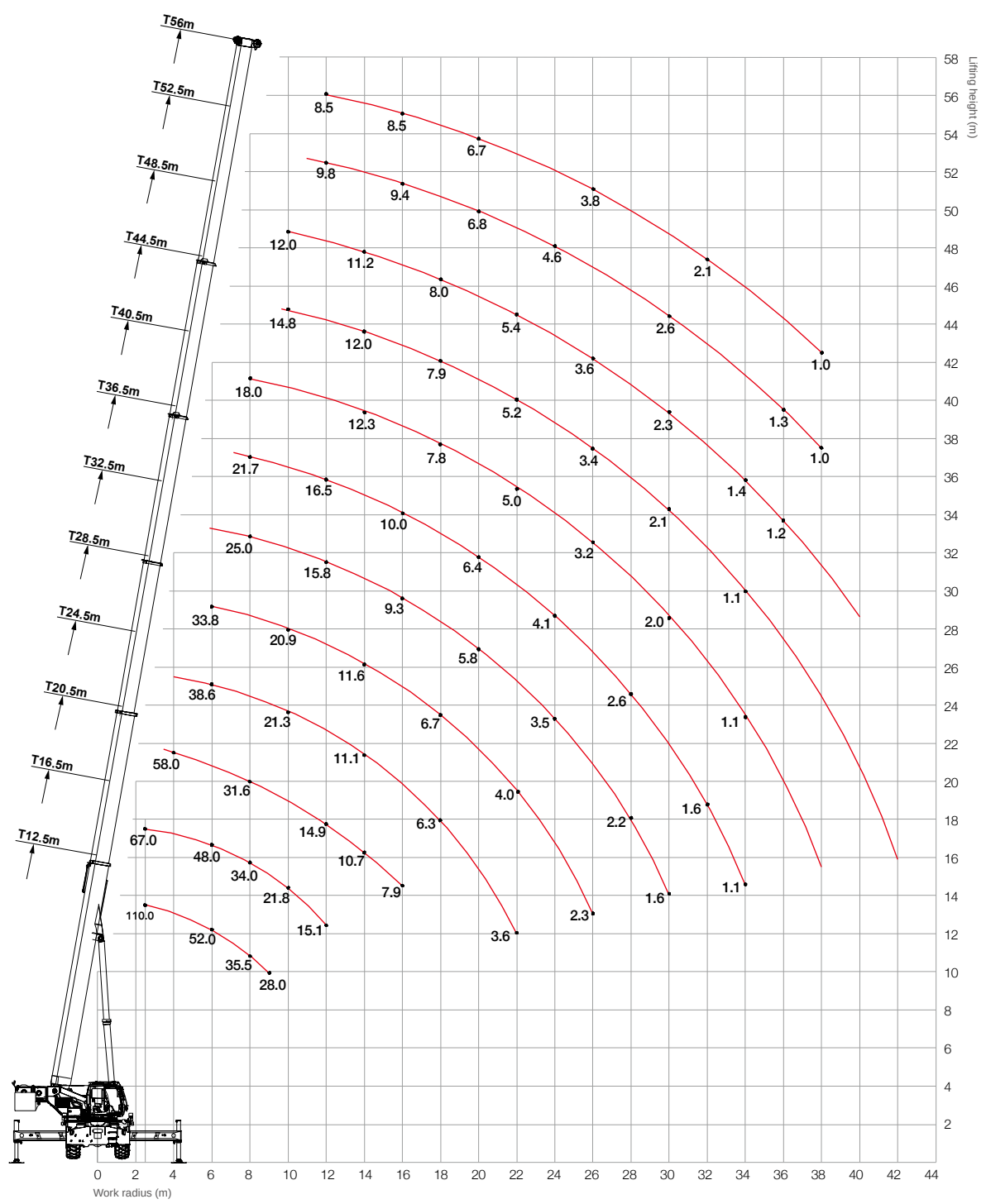
Transport Dimensions

Unit: mm



Items		Weight (kg)	Load on front axle (kg)	Load on rear axle (kg)
Basic machine		56000	30200	25800
Counterweight		10600	-3992	+14632
Fixed jib		1150	+2070	-920
Boom tip		100	+265	-165
Main hook	100t	1030	+1848	-818
	90t	830	+1489	-659
	70t	700	+1256	-556
	50t	595	+1067	-472
Auxiliary hook		8t	+287	-45

Working Range



Load Chart–Telescopic Boom

Unit: metric ton



Boom length(m) Radius(m)	12.5	16.5	16.5	20.5	20.5	20.5	20.5	24.5	24.5	24.5	24.5	28.5	28.5	28.5	32.5	Boom length(m) Radius(m)
2.5	110.0	67.0	36.0													2.5
3.0	90.0	67.0	36.0	60.0	51.5	36.0	29.5									3.0
3.5	78.0	67.0	36.0	59.0	51.5	36.0	27.5	48.0	46.0	36.0	29.0					3.5
4.0	71.0	67.0	36.0	58.0	51.5	36.0	25.8	48.0	46.0	36.0	27.4					4.0
4.5	65.0	62.5	33.9	54.5	51.5	36.0	24.2	45.7	46.0	36.0	26.0	37.6	33.0	23.0		4.5
5.0	60.0	57.0	32.3	51.2	51.5	34.8	22.8	43.0	46.0	36.0	24.6	36.5	32.9	22.1		5.0
5.5	55.0	51.7	30.8	48.6	49.5	33.4	21.6	40.8	46.0	34.8	23.5	35.2	32.8	21.1		5.5
6.0	52.0	48.0	29.3	46.0	48.0	32.0	20.5	38.6	46.0	33.6	22.4	33.8	32.6	20.0	28.4	6.0
6.5	47.0	44.8	28.1	42.6	44.0	31.0	19.5	36.5	41.5	32.5	21.4	32.4	32.1	19.2	27.7	6.5
7.0	43.0	41.5	27.0	39.3	40.3	30.0	18.5	34.9	38.3	31.5	20.5	30.9	31.7	18.5	27.0	7.0
8.0	35.5	34.0	24.9	31.6	32.5	27.7	17.0	30.2	31.5	29.5	18.9	28.2	30.0	17.2	25.0	8.0
9.0	28.0	27.5	23.3	26.2	27.0	26.0	15.7	25.1	26.4	27.8	17.3	24.5	27.3	16.0	23.5	9.0
10.0		21.8	22.0	21.5	22.2	24.5	14.5	21.3	22.6	24.9	15.5	20.9	23.6	15.0	20.8	10.0
11.0		18.1	20.1	17.9	18.4	20.8	13.5	18.0	19.0	21.0	14.0	18.1	20.7	13.8	18.2	11.0
12.0		15.1	17.2	14.9	15.6	17.8	12.7	15.0	16.0	18.0	12.8	15.7	17.8	12.7	15.8	12.0
14.0				10.7	11.5	13.7	11.2	11.1	12.0	13.8	10.9	11.6	13.6	11.0	12.2	14.0
16.0				7.9	8.7	10.8	10.2	8.3	9.0	10.9	9.5	8.8	10.8	9.6	9.3	16.0
18.0							8.2	6.3	7.0	8.8	8.5	6.7	8.8	8.6	7.4	18.0
20.0								4.7	5.5	7.2	7.6	5.2	7.2	7.7	5.8	20.0
22.0								3.6	4.3	5.9	6.4	4.0	5.9	6.7	4.5	22.0
24.0												3.0	4.9	5.7	3.5	24.0
26.0												2.3	4.0	4.8	2.7	26.0
28.0															2.2	28.0
30.0															1.6	30.0
32.0																32.0
34.0																34.0
36.0																36.0
38.0																38.0
40.0																40.0
42.0																42.0
Telescoping status (%)																
2nd boom	0	46	0	92	46	0	0	92	46	0	0	92	0	0	92	2nd boom
3rd boom	0	0	0	0	46	0	0	46	46	0	0	46	46	0	46	3rd boom
4th boom	0	0	0	0	0	0	0	0	46	46	0	46	46	0	46	4th boom
5th boom	0	0	0	0	0	46	0	0	0	46	46	0	46	92	46	5th boom
6th boom	0	0	46	0	0	46	92	0	0	46	92	0	46	92	0	6th boom
Rope rate	16	10	6	9	8	6	5	7	7	6	5	6	5	4	4	Rope rate

Load Chart–Telescopic Boom

Unit: metric ton



Boom length(m) Radius(m)	32.5	32.5	36.5	36.5	36.5	40.5	40.5	40.5	44.5	44.5	44.5	48.5	48.5	52.5	56.0	Boom length(m) Radius(m)
2.5																2.5
3.0																3.0
3.5																3.5
4.0																4.0
4.5																4.5
5.0																5.0
5.5																5.5
6.0	27.0	19.8														6.0
6.5	27.0	19.1														6.5
7.0	27.0	18.5	21.7	19.2	16.0											7.0
8.0	26.3	17.2	21.7	19.2	15.0	18.0	15.0	14.5								8.0
9.0	25.5	16.2	21.0	19.2	14.2	18.0	15.0	13.8	14.8	12.8	12.4					9.0
10.0	22.2	15.1	19.8	18.8	13.4	18.0	15.0	13.2	14.8	12.8	12.4	12.0	10.8			10.0
11.0	19.4	13.8	18.1	18.1	12.6	17.0	14.5	12.6	14.2	12.2	12.0	12.0	10.8	10.0		11.0
12.0	16.7	12.7	16.5	17.1	11.9	16.0	13.6	12.0	13.6	11.8	11.5	12.0	10.8	9.8	8.5	12.0
14.0	13.2	11.0	12.8	13.7	10.6	12.3	12.5	11.0	12.0	10.8	10.7	11.2	10.4	9.6	8.5	14.0
16.0	10.3	9.7	10.0	10.9	9.5	9.8	11.0	9.8	9.7	9.9	9.8	9.8	9.5	9.4	8.5	16.0
18.0	8.3	8.7	8.0	8.8	8.6	7.8	8.9	8.8	7.9	8.9	9.0	8.0	8.7	8.1	7.9	18.0
20.0	6.7	7.9	6.4	7.2	7.8	6.3	7.3	7.7	6.4	7.3	7.5	6.5	7.1	6.8	6.7	20.0
22.0	5.5	6.7	5.2	6.0	6.7	5.0	6.1	6.5	5.2	6.1	6.1	5.4	5.9	5.6	5.5	22.0
24.0	4.5	5.7	4.1	4.9	5.7	4.0	5.1	5.5	4.2	5.1	5.2	4.4	4.9	4.6	4.6	24.0
26.0	3.7	4.9	3.3	4.1	4.7	3.2	4.3	4.6	3.4	4.3	4.4	3.6	4.1	3.8	3.8	26.0
28.0	3.0	4.2	2.6	3.5	4.1	2.6	3.6	4.0	2.7	3.6	3.7	2.9	3.4	3.2	3.1	28.0
30.0	2.4	3.7	2.1	2.9	3.5	2.0	3.0	3.4	2.1	3.0	3.1	2.3	2.8	2.6	2.6	30.0
32.0			1.6	2.4	3.0	1.6	2.5	2.9	1.6	2.6	2.6	1.8	2.3	2.1	2.1	32.0
34.0			1.1	2.0	2.5	1.1	2.1	2.5	1.1	2.1	2.2	1.4	1.9	1.7	1.7	34.0
36.0							1.7	2.1		1.8	1.8	1.2	1.5	1.3	1.3	36.0
38.0							1.5	1.8		1.5	1.5		1.2	1.0	1.0	38.0
40.0										1.1	1.3					40.0
42.0											1.0					42.0
Telescoping status (%)																
2nd boom	46	0	92	46	0	92	46	0	92	46	0	92	46	92	100	2nd boom
3rd boom	46	0	46	46	0	92	46	46	92	46	92	92	92	92	100	3rd boom
4th boom	46	46	46	46	92	46	46	92	92	92	92	92	92	92	100	4th boom
5th boom	46	92	46	46	92	46	92	92	46	92	92	92	92	92	100	5th boom
6th boom	46	92	46	92	92	46	92	92	46	92	92	46	92	92	100	6th boom
Rope rate	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	Rope rate

Load Chart–Telescopic Boom

Unit: metric ton



Boom length(m) Radius(m)	12.5	16.5	20.5	24.5	28.5	32.5	36.5	40.5	40.5	44.5	44.5	48.5	52.5	56.0	Boom length(m) Radius(m)
3.0	75.0	36.0	36.0												3.0
3.5	67.0	36.0	36.0	36.0											3.5
4.0	60.0	35.9	36.0	36.0											4.0
4.5	53.0	33.9	36.0	36.0	33.0										4.5
5.0	48.0	32.4	34.8	36.0	32.9										5.0
5.5	35.0	30.8	32.9	34.7	32.8										5.5
6.0	30.3	29.3	31.0	33.5	32.0	27.0									6.0
6.5	26.7	27.0	29.2	31.0	30.0	25.0									6.5
7.0	24.5	24.5	27.4	27.5	27.4	23.0	19.0								7.0
8.0	20.1	19.7	21.8	21.8	21.5	20.0	18.0	17.0	14.3						8.0
9.0	16.2	16.1	17.8	17.8	17.7	16.8	16.1	17.0	13.7	14.5	12.0				9.0
10.0		13.5	15.0	15.0	14.8	14.0	13.8	15.1	13.0	13.5	12.0	10.5			10.0
11.0		11.4	12.7	12.8	12.6	11.9	11.6	13.0	12.3	11.5	12.0	10.5	10.0		11.0
12.0		9.7	11.0	11.0	10.8	10.2	10.0	11.2	11.0	9.9	10.6	10.0	9.5	8.0	12.0
14.0			8.5	8.4	8.3	7.8	7.5	8.4	8.6	7.5	8.3	8.0	7.7	7.4	14.0
16.0			6.6	6.6	6.6	6.1	5.8	6.4	6.8	5.8	6.6	6.3	6.1	6.1	16.0
18.0			5.1	5.3	5.3	4.9	4.5	4.9	5.6	4.6	5.3	5.1	4.8	4.9	18.0
20.0				4.3	4.3	3.9	3.6	3.8	4.6	3.6	4.4	4.1	3.9	3.9	20.0
22.0				3.5	3.5	3.1	2.8	2.95	3.8	2.8	3.7	3.3	3.1	3.0	22.0
24.0					2.8	2.4	2.2	2.2	3.2	2.2	3.0	2.7	2.5	2.5	24.0
26.0						1.9	1.6	1.6	2.6	1.7	2.5	2.2	2.0	2.0	26.0
28.0						1.5	1.1	1.0	2.2	1.2	2.1	1.8	1.5	1.6	28.0
30.0									1.8		1.7	1.4	1.1	1.2	30.0
32.0									1.5		1.3	1.0			32.0
34.0									1.2		1.0				34.0
Telescoping status (%)															
2nd boom	0	0	0	0	0	46	92	92	0	92	0	46	92	100	2nd boom
3rd boom	0	0	0	0	46	46	46	92	46	92	92	92	92	100	3rd boom
4th boom	0	0	0	46	46	46	46	46	92	92	92	92	92	100	4th boom
5th boom	0	0	46	46	46	46	46	46	92	46	92	92	92	100	5th boom
6th boom	0	46	46	46	46	46	46	46	92	46	92	92	92	100	6th boom
Rope rate	11	6	6	6	5	4	4	4	4	4	4	4	3	3	Rope rate

Load Chart–Telescopic Boom

Unit: metric ton



Boom length(m) Radius(m)	12.5	16.5	20.5	24.5	28.5	32.5	36.5	40.5	40.5	44.5	44.5	48.5	52.5	56.0	Boom length(m) Radius(m)
3.5	28.0														3.5
4.0	24.0	22.2													4.0
4.5	21.0	20.0	21.6												4.5
5.0	19.5	18.8	19.1	18.0	18.3										5.0
5.5	17.2	16.7	17.0	16.0	16.5	16.0									5.5
6.0	14.9	14.7	15.0	14.2	15.1	14.0									6.0
6.5	12.9	13.0	13.5	13.0	13.5	12.5									6.5
7.0	11.3	12.0	12.1	11.8	12.3	11.1	11.0								7.0
8.0	8.9	9.7	10.0	9.6	10.0	9.3	9.0	9.0	10.0						8.0
9.0	7.0	7.9	8.3	7.9	8.3	7.7	7.5	7.4	8.5	7.5	8.7				9.0
10.0		6.6	7.0	6.6	7.0	6.5	6.2	6.2	7.2	6.5	7.4	6.5			10.0
11.0		5.5	5.8	5.6	5.9	5.4	5.2	5.1	6.2	5.5	6.3	5.5	5.6		11.0
12.0		4.6	4.9	4.6	5.0	4.5	4.3	4.2	5.2	4.6	5.4	4.5	4.6	5.0	12.0
14.0			3.5	3.2	3.5	3.3	3.0	2.9	4.0	3.3	4.0	3.5	3.4	3.5	14.0
16.0			2.5	2.1	2.6	2.3	1.9	2.0	3.0	2.3	3.0	2.5	2.4	2.5	16.0
18.0				1.5	1.8	1.3	1.2	0.9	2.3	1.2	2.3	1.5	1.7	1.8	18.0
20.0									1.7		1.7	1.0		1.3	20.0
22.0									1.3						22.0
Telescoping status (%)															
2nd boom	0	0	0	0	0	46	92	92	0	92	0	46	92	100	2nd boom
3rd boom	0	0	0	0	46	46	46	92	46	92	92	92	92	100	3rd boom
4th boom	0	0	0	46	46	46	46	46	92	92	92	92	92	100	4th boom
5th boom	0	0	46	46	46	46	46	46	92	46	92	92	92	100	5th boom
6th boom	0	46	46	46	46	46	46	46	92	46	92	92	92	100	6th boom
Rope rate	4	4	4	4	4	4	4	4	4	4	4	4	3	3	Rope rate

Load Chart–Telescopic Boom, On Tires Stationary

Unit: metric ton



Load Over Front						
Radius(m)	12.5	16.5	20.5	24.5	28.5	Radius(m)
4.5	19.8					4.5
5.0	17.7					5.0
5.5	16.0					5.5
6.0	14.4	14.1				6.0
6.5	13.1	12.9				6.5
7.0	11.9	11.9				7.0
8.0	9.9	9.7	10.6			8.0
9.0	8.3	8.3	9.0	9.0	9.1	9.0
10.0		7.0	7.6	7.8	8.1	10.0
11.0		5.9	6.5	6.7	7.1	11.0
12.0		5.0	5.5	6.0	6.5	12.0
14.0			4.0	4.7	5.0	14.0
16.0			3.0	3.8	4.0	16.0
18.0				2.8	3.0	18.0
20.0				2.0	2.3	20.0
22.0				1.3	1.6	22.0
24.0					1.1	24.0
Telescoping status (%)						
2nd boom	0	0	0	0	0	2nd boom
3rd boom	0	0	0	0	0	3rd boom
4th boom	0	0	0	0	0	4th boom
5th boom	0	0	0	46	92	5th boom
6th boom	0	46	92	92	92	6th boom
Rope rate	4	4	4	4	4	Rope rate

360° Slewing						
Radius(m)	12.5	16.5	20.5	24.5	28.5	Radius(m)
4.5	12.0					4.5
5.0	9.8					5.0
5.5	8.3					5.5
6.0	7.0	7.9				6.0
6.5	5.7	6.9				6.5
7.0	4.9	6.0				7.0
8.0	3.5	4.6	4.9			8.0
9.0	2.4	3.6	3.9	4.1	4.2	9.0
10.0		2.8	3.1	3.3	3.4	10.0
11.0		2.1	2.4	2.6	2.7	11.0
12.0		1.3	1.8	2.0	2.1	12.0
14.0			1.0	1.2	1.3	14.0
Telescoping status (%)						
2nd boom	0	0	0	0	0	2nd boom
3rd boom	0	0	0	0	0	3rd boom
4th boom	0	0	0	0	0	4th boom
5th boom	0	0	0	46	92	5th boom
6th boom	0	46	92	92	92	6th boom
Rope rate	4	4	4	4	4	Rope rate

Load Chart—Telescopic Boom, Pick and Carry

Unit: metric ton



Load Over Front						
Radius(m)	12.5	16.5	20.5	24.5	28.5	Radius(m)
4.5	15.1					4.5
5.0	13.6					5.0
5.5	12.3					5.5
6.0	11.1	13.0				6.0
6.5	10.0	12.0				6.5
7.0	9.1	11.0				7.0
8.0	7.5	9.0	10.0			8.0
9.0	6.2	8.0	8.5	8.6	8.7	9.0
10.0		6.5	7.1	7.5	7.7	10.0
11.0		5.4	6.0	6.5	6.8	11.0
12.0		4.5	5.1	5.8	6.2	12.0
14.0			3.7	4.5	4.8	14.0
16.0			2.8	3.7	3.8	16.0
18.0				2.7	2.8	18.0
20.0				1.9	2.1	20.0
22.0					1.4	22.0
Telescoping status (%)						
2nd boom	0	0	0	0	0	2nd boom
3rd boom	0	0	0	0	0	3rd boom
4th boom	0	0	0	0	0	4th boom
5th boom	0	0	0	46	92	5th boom
6th boom	0	46	92	92	92	6th boom
Rope rate	4	4	4	4	4	Rope rate

Load Chart—Jib

Unit: metric ton



56.0m+10.3m				56.0m+18m			
Boom angle(°)	0°	20°	40°	0°	20°	40°	Boom angle(°)
81	5.5	4.5	4.0	3.0	2.7	2.3	81
80	5.4	4.5	3.9	3.0	2.6	2.2	80
79	5.3	4.5	3.8	3.0	2.5	2.2	79
78	5.1	4.4	3.7	2.9	2.5	2.2	78
77	4.9	4.3	3.6	2.9	2.4	2.1	77
76	4.7	4.1	3.4	2.9	2.4	2.1	76
75	4.5	3.9	3.2	2.8	2.3	2.1	75
73	4.1	3.7	2.9	2.7	2.2	2.0	73
70	3.0	2.7	2.5	2.3	1.9	1.8	70
68	2.4	2.3	2.1	1.9	1.5	1.4	68
65	2.0	1.9	1.7	1.3	1.1	1.1	65
63	1.7	1.6	1.4	1.0	0.8	0.9	63
60	1.4	1.2	1.1				60
58	1.1	0.8	0.7				58



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