

SRC600C

SANY Rough-Terrain Crane
60 Tons Lifting Capacity



Main boom length: 11.3~43.5
Max lifting torque: 2115KN.m
Max gradability: 75%

Excellent performance

- ✔ Key structural optimization, improve the product performance.
- ✔ Over-length boom and high tensile steel U-sharped boom, which allows for decreased boom weight and increased boom strength.
- ✔ Two-axle off-roader chassis, four-wheel driving, four-steering modes have good mobility.

Energy and High efficiency

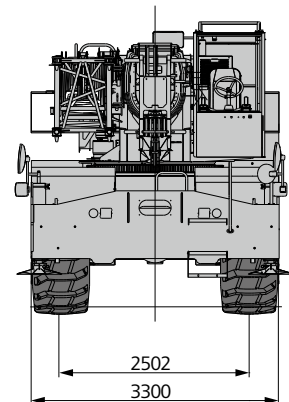
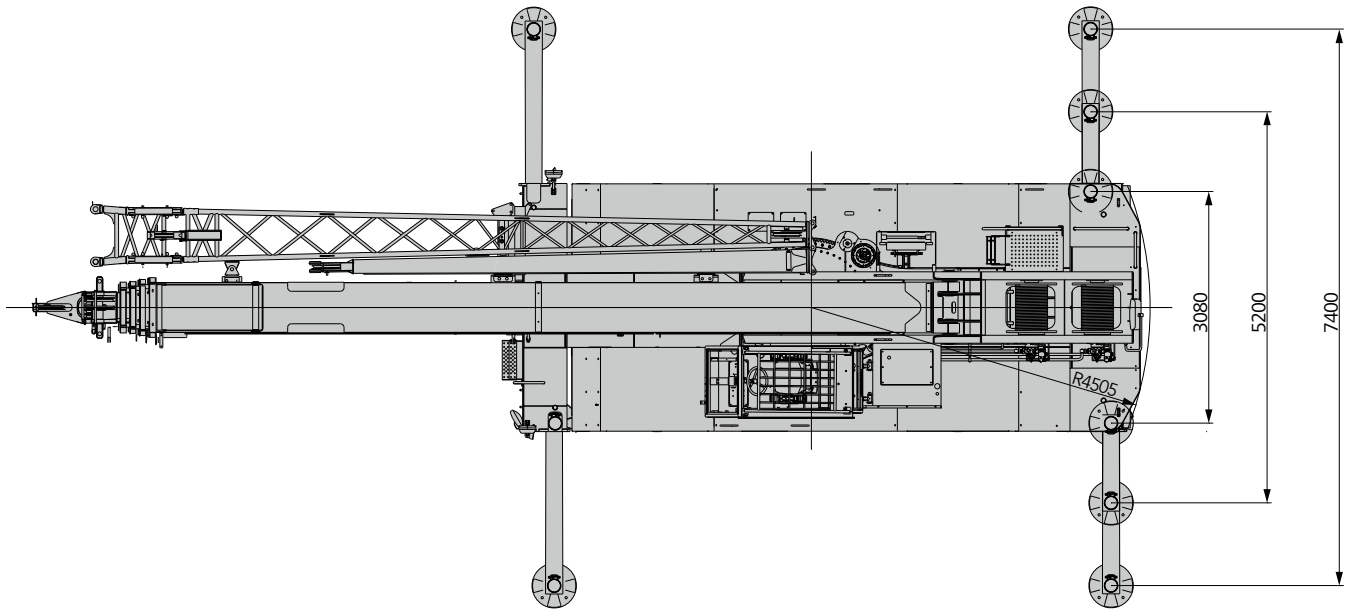
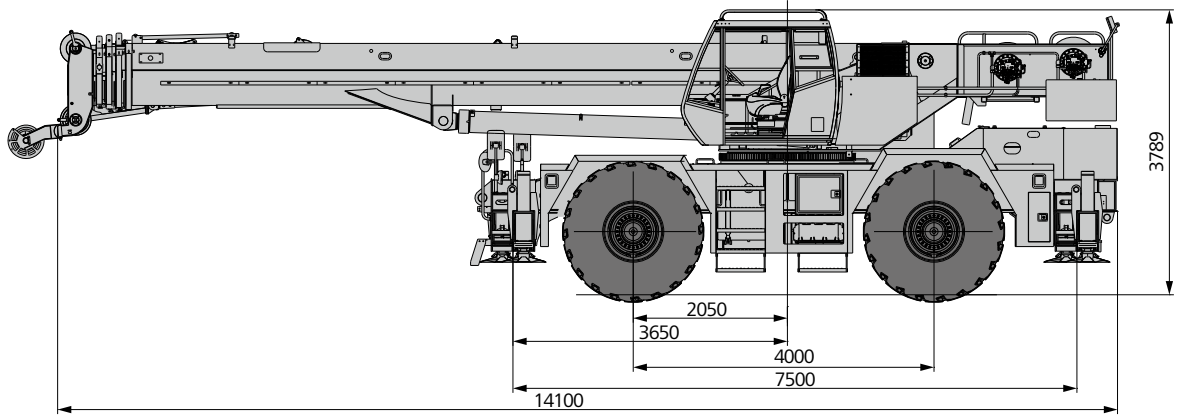
- ✔ The load sensitive variable displacement piston pump is applied to adjust the pump displacement in real time with little energy loss during operation.
- ✔ The dead-weight luffing compensation hydraulic system is applied to ensure good micro-mobility and excellent stability.
- ✔ The four-wheel steering control system is applied to ensure four individual steering modes with flexible operation.
- ✔ The dual-circuit braking system is applied with individual brakes for front and rear wheels and pressure maintained by an accumulator, providing good braking effect.
- ✔ Slewing and steering circuits are controlled by a priority valve, providing priority for steering control and ensuring the stability and rapid response of slewing action.

Safety and Reliable

- ✔ Load moment limiter: The system can provide comprehensive protection for the lifting operation and will alarm if the crane is overloaded, guaranteeing operation safety.
- ✔ A three-wrap rope protector is applied to both main and auxiliary winches to prevent over rolling-out of wire rope.
- ✔ A height limiter is applied at both boom and jib ends to prevent over-hoisting of the wire rope.
- ✔ Equipped with length sensor, angle sensor and press sensor to indicate the working condition of whole crane in real-time, giving an alarm and cutting off the dangerous action automatically.
- ✔ Use high-quality axle, engine, gearbox, hydraulic pump and hydraulic motor etc. key parts, improve the reliable of product.



Overall Dimensions



Technical Parameters

Type	Item	Unit	Parameter	
Dimensions	Overall length	mm	14100	
	Overall width	mm	3300	
	Overall height	mm	3760	
	Axle distance	mm	4000	
	Wheel Track	mm	2501	
Weight	Overall weight	kg	44900	
	Axle load	Front axle load	kg	24800
		Rear axle load	kg	20100
Power	Engine model	DF Cummins ISDe285 30		
	Emission standard	T3i		
	Rated power	kw/rpm	210/2500	
	Rated torque	N.m/rpm	970/1500	
Traveling	Drive	/	4×4	
	Tires size	/	29.5R25	
	Max. traveling speed (no load)	km/h	40	
	Turning radius	m	12.9/7.4	
	Min. ground clearance	mm	513	
	Approach angle	°	22	
	Departure angle	°	17	
	Max. grade ability	%	75	
Performance	Temperature range	°C	-20~+46	
	Max. lifting capacity	T	60	
	Min. rated range	m	3	
	Outrigger span	m	7.4×7.5	
	Turntable slewing radius	m	4.5	
	Jib length	m	9.2+16	
	Jib offset	°	0°, 15°, 30°	
	Boom length	Base boom	m	11.3
		Full-extend boom	m	43.5
		Boom + Jib	m	59.5
	Lifting height	Base boom	m	13.8
		Full-extend boom	m	46
		Boom + Jib	m	62
	Lifting moment	Base boom	kN.m	2115
Full-extend boom		kN.m	1100	
Boom + Jib		kN.m	530	
Working speed	Slewing speed	r/min	2.6	
	Max. single rope lifting speed of main winch	m/min	155	
	Max. single rope lifting speed of auxiliary winch	m/min	155	
	Full extension/retraction time of boom	s	95/110	
	Full lifting/descending time of boom	s	55/75	
	Full extension/retraction time of horizontal outrigger	s	35/30	
	Full extension/retraction time of vertical outrigger	s	40/35	

Technical Parameters



Axle Load

Axle	1	2	Total weight
Axle load/t	24.8	20.1	44.9
Note	-		

Standard Equipment

Number	Name	Number	Name
1	Engine	14	Telescope balance valve
2	Gear box	15	Swing buffer valve
3	Front axle assembly	16	Telescope cylinder I
4	Rear axle assembly	17	Telescope cylinder II
5	Torque converter radiator	18	Luffing cylinder
6	Tire	19	Air condition system
7	Piston pump	20	Swing bearing
8	Gear pump	21	Swing reducer
9	Main valve	22	Hoisting reducer
10	Hoisting motor	23	Main hook
11	Swing motor	24	Auxiliary hook
12	Luffing balance valve	25	Motion controller
13	Hoisting balance valve		

Option Equipment

- Option hook I (lifting capacity:50t Mass:595kg)
- Option hook II (lifting capacity:30t Mass:360kg)
- Gas pump
- Intake valve
- Winch and backup camera

Crane Introduction

Engine

- Model: ISDe285 30.
- Type: six cylinder, direct injection diesel, 4 cycle, turbo charged and after cooled.
- Rated Power: 210kw/2500r/min.
- Exhaust: Euro III.
- Fuel tank: 300L.

Transmission

- Transmission: DANA automatic gearbox, Power shift with 6 forward and 6 reverse speeds (3 speeds high and 3 speed low). Front axle disconnect for 4x2 travel.

Axles

- Front Axle: Drive/steel with differential and planetary reduction, traveling and parking brake.
- Rear Axle: Drive/steel axle with differential and planetary reduction, traveling brake.

Suspension

- Front Suspension: Rigid mounted to frame.
- Rear Suspension: Pivot mounted with hydraulic lockout device.

Tires

- Model: 29.5R25.

Brake System

- System Type: Full hydraulic double-circuit brake system and all wheels brake.
- Brake Model: Traveling brake (all wheels) and parking brake (rear wheels).

Steering System

- System Type: Full hydraulic independent power steering.
- Steering Model: 2 wheel front, 2 wheel rear, 4 wheel coordinated and 4 wheel crab.

Outrigger System

- Outrigger Type: Hydraulic telescoping single-stage H type outrigger.
- Outrigger Span: 7.4m×7.5m (100% extension), 5.2m×7.5m (50% retracted), 3.08m×7.5m (fully retracted).

Cab

- The self-made full-vision anti-corrosion steel cab, equipped 10.4 in. touch screen, air-suspension seat, multi-function steering wheel, cold air-condition and heater.

Boom System

- Main Boom: 11.3m ~ 43.5m five-section U-shaped boom, maximum tip height 46m.
- Jib: 9.2m & 16m two stage bi-fold lattice type with 0°, 15°, 30°, maximum tip height 61m.

Elevation

- One double-acting hydraulic cylinder with integral holding valve, elevation angle from -2°~80°.

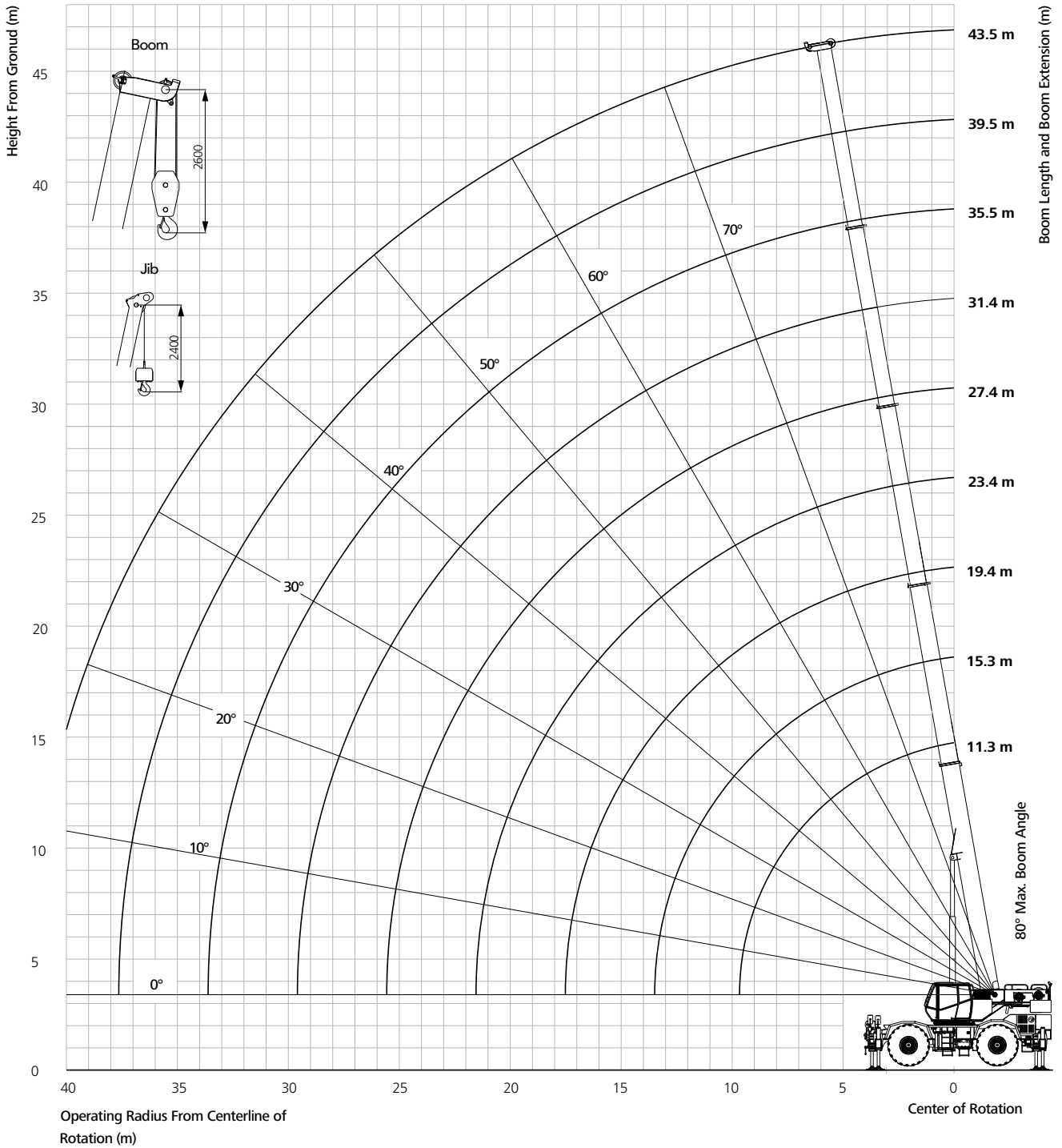
Hoist

- Main Hoist: Planetary reduction with variable motor, motor high/low speed control. Hoist speed feedback, maximum single line speed 155m/min, rope diameter 20mm, length 250m.
- Auxiliary Hoist: Planetary reduction with variable motor, motor high/low speed control. Hoist speed feedback, maximum single line speed 155m/min, rope diameter 20mm, length 145m.
- Hook: 60T main hook with 5 sheaves, weight is 660kg. 8T auxiliary hook, weight is 160kg.

Slewing

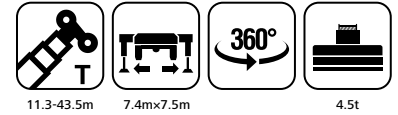
- 360° rotation, Maximum speed: 2.6r/min. Hydraulic controlled proportional speed adjustment is applied, providing stable and reliable operation of the system. Unique slewing buffer design ensures more stable braking operation.

Boom Operating Range



Load Chart - Telescopic Boom

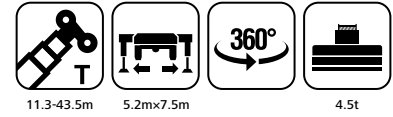
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Radius (m)	11.30	15.33	19.35		23.38		27.40		31.43		35.45		39.48		43.50	Radius (m)	
3.0	60.00	45.00	35.00	22.00												3.0	
3.5	57.00	45.00	35.00	22.00	25.00	20.00										3.5	
4.0	54.00	45.00	35.00	22.00	25.00	20.00	22.50	17.05								4.0	
4.5	47.80	43.00	33.00	22.00	25.00	20.00	22.50	17.05	17.50	15.00						4.5	
5.0	43.00	41.00	32.00	22.00	24.50	20.00	22.00	17.05	17.50	15.00						5.0	
5.5	39.00	38.00	32.00	22.00	24.20	20.00	21.50	17.05	17.50	15.00	15.50	11.00				5.5	
6.0	35.50	34.70	32.00	22.00	23.80	19.50	20.50	17.05	17.50	14.50	14.50	11.00				6.0	
6.5	32.50	32.00	30.50	22.00	22.30	19.00	19.80	16.30	17.50	14.00	14.00	11.00	12.50	10.00		6.5	
7.0	30.00	29.70	29.00	22.00	21.50	18.50	18.80	15.70	17.50	13.50	14.00	11.00	12.00	10.00	9.50	7.0	
7.5	27.80	27.50	26.00	22.00	21.00	18.00	18.00	15.00	17.50	13.00	13.00	11.00	11.50	10.00	9.50	7.5	
8.0	25.80	25.00	23.50	22.00	20.00	17.50	17.20	14.50	16.50	12.50	12.50	11.00	11.00	10.00	9.50	8.0	
9.0	20.00	20.00	19.50	21.70	18.00	17.00	16.50	13.50	15.00	12.00	12.00	10.30	10.50	10.00	9.30	9.0	
10.0		16.00	16.00	17.80	16.00	12.50	15.00	12.50	13.50	11.00	11.50	9.60	10.00	9.60	9.00	10.0	
12.0		10.90	11.00	12.80	12.00	12.00	11.80	10.70	11.00	10.00	10.00	8.60	9.00	9.10	8.30	12.0	
14.0			7.70	9.80	8.50	9.50	8.80	9.35	8.60	8.60	8.50	7.80	8.00	8.60	8.00	14.0	
16.0			5.50	7.50	6.00	7.80	6.80	8.05	6.90	7.20	7.10	6.75	7.30	7.60	7.35	16.0	
18.0					4.50	6.50	5.20	6.55	5.60	6.20	5.70	6.05	6.00	6.20	5.80	18.0	
20.0					3.40	5.30	4.10	5.35	4.40	5.20	4.50	5.25	4.80	4.90	4.70	20.0	
22.0								3.15	4.45	3.30	4.40	3.55	4.55	3.70	4.15	3.80	22.0
24.0								2.45	3.65	2.50	3.60	2.85	3.75	2.90	3.35	3.10	24.0
26.0										1.90	3.10	2.25	3.25	2.30	2.85	2.50	26.0
28.0										1.50	2.60	1.75	2.75	1.90	2.35	2.00	28.0
30.0												1.35	2.35	1.50	1.95	1.60	30.0
32.0												1.00	1.95	1.20	1.55	1.25	32.0
34.0														0.90	1.25	0.95	34.0
36.0														0.70	1.05		36.0
2st boom	0%	50%	100%	0%	100%	0%	100%	0%	100%	0%	100%	0%	100%	50%	100%	2st boom	
3st boom	0%	0%	0%	33%	17%	50%	33%	66%	50%	84%	66%	100%	84%	100%	100%	3st boom	
4st boom	0%	0%	0%	33%	17%	50%	33%	66%	50%	84%	66%	100%	84%	100%	100%	4st boom	
5st boom	0%	0%	0%	33%	17%	50%	33%	66%	50%	84%	66%	100%	84%	100%	100%	5st boom	
Number of parts of line	10	10	8	8	6	6	4	4	4	4	4	4	4	4	3	Number of parts of line	

Load Chart - Telescopic Boom

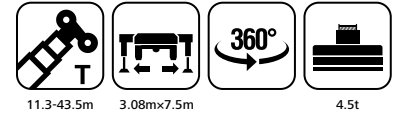
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Radius (m)	11.30	15.33	19.35	23.38	27.40	31.43	35.45	39.48	43.50	Radius (m)						
3.0	55.00	45.00	35.00	22.00						3.0						
3.5	50.00	41.00	32.50	21.00	25.00	20.00				3.5						
4.0	44.40	37.00	30.50	19.80	24.00	19.00	22.50	18.50		4.0						
4.5	38.00	33.50	29.00	18.80	22.50	18.00	21.50	17.20	17.50	15.00	4.5					
5.0	32.00	30.00	26.50	17.50	21.50	16.50	20.80	15.00	17.20	14.00	5.0					
5.5	27.00	25.50	23.50	16.20	20.80	15.00	20.40	13.80	17.00	12.80	15.00	12.50	5.5			
6.0	22.50	21.50	20.00	15.00	20.00	14.20	19.80	13.20	16.50	12.50	14.50	12.20	12.50	10.00	6.0	
6.5	19.00	18.00	17.50	14.20	18.00	13.50	18.00	12.80	15.80	12.30	14.00	12.00	12.50	10.00	6.5	
7.0	16.00	15.50	15.20	13.50	15.40	13.00	15.50	12.40	14.80	12.00	14.00	11.80	12.50	10.00	9.50	7.0
7.5	14.00	13.80	13.00	13.00	13.50	12.50	13.80	12.00	13.50	11.80	13.00	11.50	12.00	10.00	9.50	7.5
8.0	12.00	12.00	11.00	12.40	12.20	12.00	12.50	11.50	12.20	11.20	12.00	11.00	11.50	10.00	9.30	8.0
9.0	9.50	9.50	9.60	11.20	9.80	11.00	10.00	10.60	10.00	10.40	10.00	10.20	9.60	9.70	9.00	9.0
10.0		7.40	7.60	9.70	7.80	9.50	8.00	9.20	8.30	9.20	8.50	9.00	8.20	8.30	8.30	10.0
12.0		5.00	5.00	7.20	5.30	7.00	5.40	6.80	5.50	6.70	5.60	6.60	5.80	6.00	6.30	12.0
14.0			3.40	5.40	3.70	5.30	3.90	5.20	4.00	5.00	4.10	4.80	4.30	4.50	4.60	14.0
16.0			2.20	3.80	2.60	3.70	2.80	3.70	2.90	3.50	3.00	3.50	3.20	3.40	3.40	16.0
18.0					1.80	2.70	2.00	2.80	2.10	2.80	2.20	2.80	2.40	2.60	2.60	18.0
20.0					1.20	2.10	1.50	2.20	1.60	2.20	1.70	2.20	1.90	2.10	2.00	20.0
22.0							0.90	1.70	1.10	1.80	1.20	1.80	1.40	1.60	1.50	22.0
24.0								1.30		1.40	0.90	1.40	1.00	1.20	1.20	24.0
26.0										1.00		1.10		1.00	0.90	26.0
28.0										0.90		0.90				28.0
2st boom	0%	50%	100%	0%	100%	0%	100%	0%	100%	0%	100%	0%	100%	50%	100%	2st boom
3st boom	0%	0%	0%	33%	17%	50%	33%	66%	50%	84%	66%	100%	84%	100%	100%	3st boom
4st boom	0%	0%	0%	33%	17%	50%	33%	66%	50%	84%	66%	100%	84%	100%	100%	4st boom
5st boom	0%	0%	0%	33%	17%	50%	33%	66%	50%	84%	66%	100%	84%	100%	100%	5st boom
Min boom angle	20	25	25	20	20	20	30	20	40	15	40	30	50	50	50	Min boom angle
Number of parts of line	10	10	8	8	6	6	4	4	4	4	4	4	4	4	3	Number of parts of line

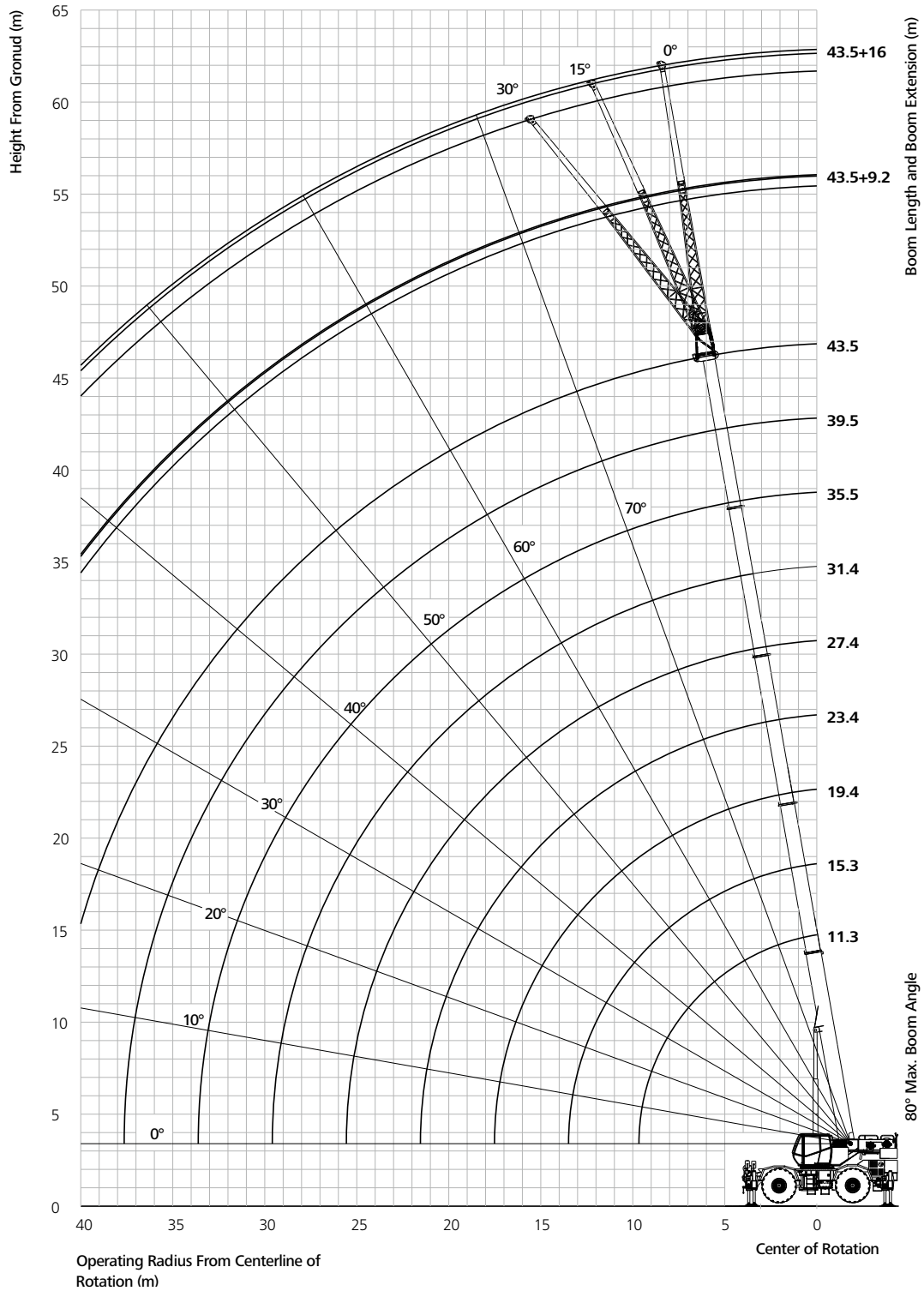
Load Chart - Telescopic Boom

Unit: t



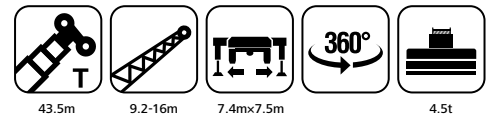
Radius (m)	11.30	15.33	19.35		23.38		27.40		31.43		35.45		39.48		43.50	Radius (m)
3.0	30.00	30.00	25.00	22.00												3.0
3.5	24.80	24.00	23.50	20.50	20.00	20.00										3.5
4.0	18.80	18.00	17.50	18.00	17.00	17.80	16.50	17.50								4.0
4.5	15.20	14.50	13.50	15.50	14.00	15.50	14.00	15.20	14.00	15.00						4.5
5.0	12.90	12.00	11.40	13.50	11.80	13.50	12.00	13.20	12.00	13.00						5.0
5.5	11.20	10.50	10.00	11.50	10.20	11.50	10.50	11.50	10.80	11.20	10.50	11.00				5.5
6.0	9.80	9.00	8.50	10.20	9.00	10.20	9.20	10.20	9.50	10.00	9.20	9.80	9.00	9.20		6.0
6.5	8.60	8.00	7.50	8.80	7.80	8.90	8.00	9.00	8.20	9.00	8.20	9.00	8.20	8.40		6.5
7.0	7.60	7.00	6.50	7.80	7.00	7.90	7.20	8.00	7.30	8.00	7.30	8.00	7.40	7.60	7.40	7.0
7.5	6.60	6.00	5.60	7.00	6.20	7.10	6.50	7.20	6.50	7.20	6.50	7.20	6.50	6.70	6.50	7.5
8.0	5.70	5.20	5.00	6.00	5.20	6.10	5.50	6.20	5.60	6.20	5.60	6.20	5.60	5.80	5.70	8.0
9.0	4.30	4.00	3.80	4.70	4.20	4.90	4.50	5.00	4.50	5.00	4.50	5.00	4.50	4.70	4.40	9.0
10.0		3.00	2.80	3.60	3.00	3.80	3.20	3.90	3.20	4.00	3.20	4.00	3.30	3.50	3.40	10.0
12.0		1.60	1.40	2.40	1.80	2.60	2.00	2.70	2.10	2.80	2.20	2.80	2.30	2.50	2.40	12.0
14.0				1.60	1.00	1.80	1.20	1.90	1.30	2.00	1.40	2.00	1.60	1.80	1.70	14.0
16.0				1.00		1.20		1.30	0.80	1.30	0.90	1.40	1.10	1.30	1.20	16.0
18.0								0.90		0.90		1.00	0.70	0.90	0.80	18.0
2st boom	0%	50%	100%	0%	100%	0%	100%	0%	100%	0%	100%	0%	100%	50%	100%	2st boom
3st boom	0%	0%	0%	33%	17%	50%	33%	66%	50%	84%	66%	100%	84%	100%	100%	3st boom
4st boom	0%	0%	0%	33%	17%	50%	33%	66%	50%	84%	66%	100%	84%	100%	100%	4st boom
5st boom	0%	0%	0%	33%	17%	50%	33%	66%	50%	84%	66%	100%	84%	100%	100%	5st boom
Min boom angle	20	25	45	25	45	40	55	45	55	50	60	55	62	60	62	Min boom angle
Number of parts of line	10	8	6	6	6	6	4	4	4	4	4	4	4	4	4	Number of parts of line

Jib Operating Range



Load Chart - Fixed Jib

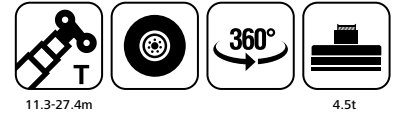
Unit: t



Working length of the boom	43.5m+9.2m			43.5m+16m			Working length of the boom
	0°	15°	30°	0°	15°	30°	
80	4.50	2.70	2.40	2.60	1.50	1.10	80
78	4.50	2.70	2.40	2.60	1.50	1.10	78
76	4.00	2.50	2.30	2.40	1.40	1.10	76
74	3.75	2.40	2.25	2.20	1.30	1.10	74
72	3.50	2.30	2.15	2.00	1.20	1.00	72
70	3.00	2.20	2.05	1.80	1.15	1.00	70
68	2.70	2.10	1.95	1.60	1.10	0.95	68
66	2.50	2.00	1.85	1.50	1.05	0.90	66
64	2.20	1.80	1.75	1.45	1.00	0.85	64
62	2.00	1.65	1.50	1.30	0.95	0.80	62
60	1.70	1.45	1.20	1.10	0.85	0.75	60
58	1.20	1.00	0.85	0.90	0.75	0.65	58
56	1.00	0.85	0.75	0.80	0.65	0.60	56
54	0.80	0.70	0.60	0.70	0.60		54
52	0.70	0.60	0.55				52
50	0.60						50
Min Angle(°)	48°	50°	50°	52°	52°	54°	Min Angle(°)

Load Chart - Telescopic Boom

Unit: t



Radius (m)	11.30	15.33	19.35	23.38	27.40	Radius (m)
3	18.10	14.10	9.00			3
3.5	16.00	14.10	8.00	6.50		3.5
4	14.30	14.10	7.00	6.50		4
4.5	12.85	12.65	7.20	6.50	5.50	4.5
5	11.60	11.40	6.50	6.50	5.00	5
5.5	10.50	10.30	6.00	6.00	4.50	5.5
6	9.20	9.35	5.30	5.00	4.20	6
6.5	8.00	8.40	4.80	4.30	3.80	6.5
7	7.00	7.50	4.20	4.00	3.50	7
7.5	6.00	6.60	3.80	3.50	3.20	7.5
8	5.30	5.80	3.20	3.00	2.90	8
8.5	4.65	5.40	2.95	2.70	2.50	8.5
9	4.00	5.00	2.70	2.40	2.20	9
10		4.00	2.20	2.00	1.90	10
11			1.70	1.60	1.50	11
12				1.50	1.30	12
14					1.00	14
1st cylinder	0%	0%	0%	0%	0%	1st cylinder
2sr cylinder	0%	17%	33%	50%	67%	2sr cylinder
Parts of lines	6	6	6	6	6	Parts of lines

Load Chart - Telescopic Boom

Unit: t



Radius (m)	11.30	15.33	19.35	23.38	27.40	Radius (m)
3	20.00	16.00	15.00			3
3.5	20.00	16.00	15.00	11.00		3.5
4	20.00	16.00	14.00	11.00	10.00	4
4.5	17.50	15.00	13.00	11.00	10.00	4.5
5	14.50	13.00	12.00	11.00	10.00	5
5.5	12.00	11.00	11.00	10.00	10.00	5.5
6	10.30	10.00	10.00	9.50	9.50	6
6.5	9.10	9.00	8.80	9.00	9.20	6.5
7	7.80	7.90	8.00	8.00	8.00	7
7.5	6.80	6.90	7.00	7.20	7.50	7.5
8	6.00	6.00	6.00	6.50	7.10	8
8.5	5.20	5.00	5.00	6.00	6.30	8.5
9	4.50	4.50	4.00	5.00	5.50	9
10		3.50	3.00	4.00	4.20	10
11			2.00	3.30	3.80	11
12			1.00	2.80	3.00	12
14				1.80	2.00	14
16				1.00		16
1st cylinder	0%	0%	0%	0%	0%	1st cylinder
2sr cylinder	0%	17%	33%	50%	67%	2sr cylinder
Parts of lines	6	6	6	6	6	Parts of lines

Load Chart - Telescopic Boom

Unit: t



Radius (m)	11.30	15.33	19.35	23.38	27.40	Radius (m)
3	12.00	10.50	10.0			3
3.5	12.00	10.50	10.0			3.5
4	10.00	10.00	9.0	8.00		4
4.5	8.60	8.00	8.0	6.50	5.50	4.5
5	7.00	6.50	6.0	5.70	5.50	5
5.5	5.80	4.80	4.5	5.00	5.50	5.5
6	4.30	3.00	3.0	4.00	5.50	6
6.5	3.00	2.50	2.5	3.00	3.50	6.5
7	2.50	2.00	2.0	2.50	3.00	7
7.5	2.00	1.50	1.5	1.70	2.00	7.5
8	1.50	1.50	1.5	1.70	2.00	8
8.5		1.00	1.0	1.20	1.50	8.5
9					1.00	9
1st cylinder	0%	0%	0%	0%	0%	1st cylinder
2sr cylinder	0%	17%	33%	50%	67%	2sr cylinder
Parts of lines	6	6	6	6	6	Parts of lines

Notes

Notes



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Reminder:

For safe and reliable operation of the diesel engines, please fill Grade IV machines with Grade IV diesel and urea solution conforming to related national standards. Please refer to the operating instructions and related standards for details.

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