

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

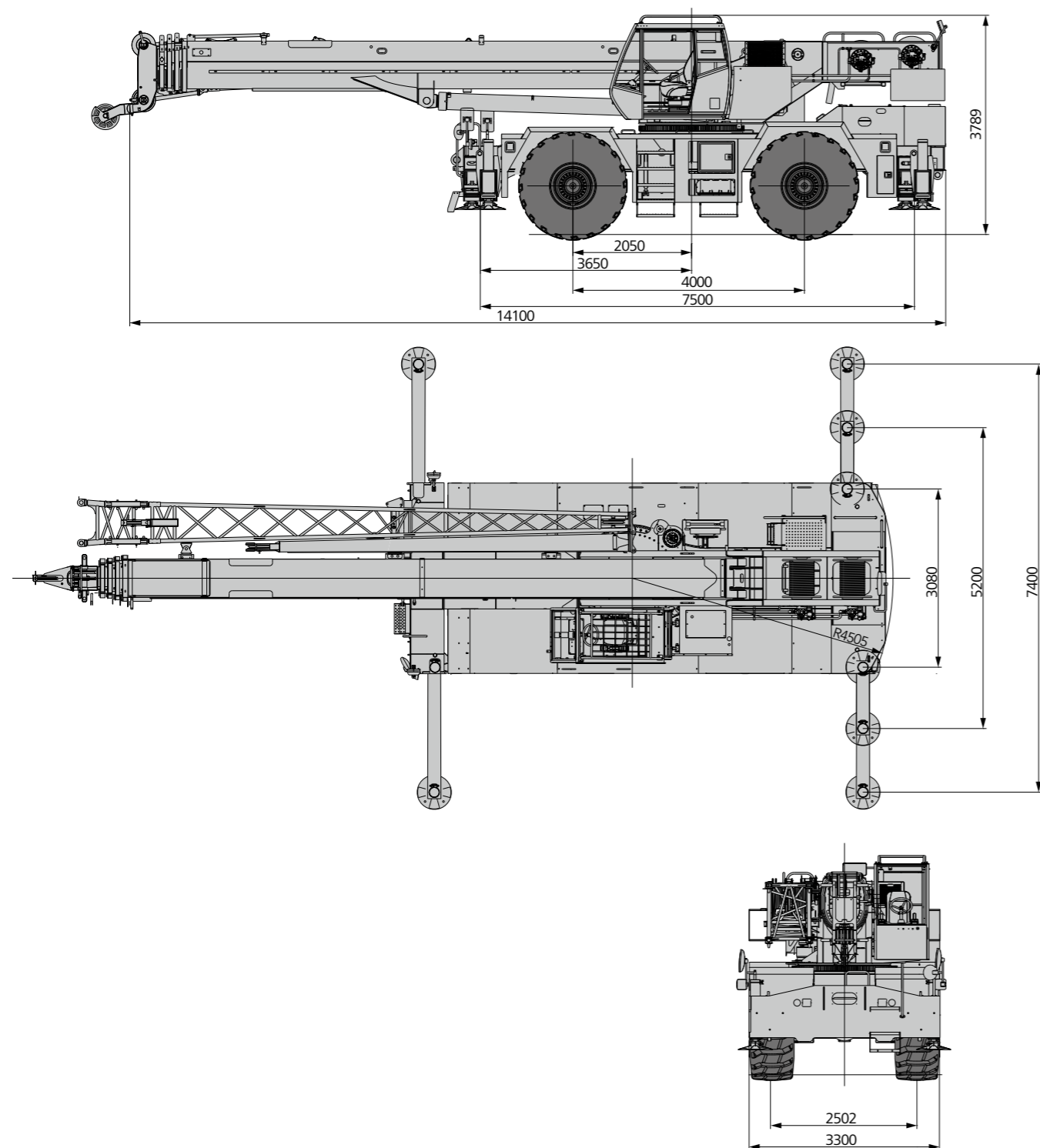
- The load sensitive variable displacement piston pump is applied to adjust the pump displacement in real time with little energy loss during operation.
- The dead-weight luffing compensation hydraulic system is applied to ensure good micro-mobility and excellent stability.
- The four-wheel steering 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	/	4x4	
	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	7.4x7.5	
	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	Hositing 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: 29.5 R25.

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°.

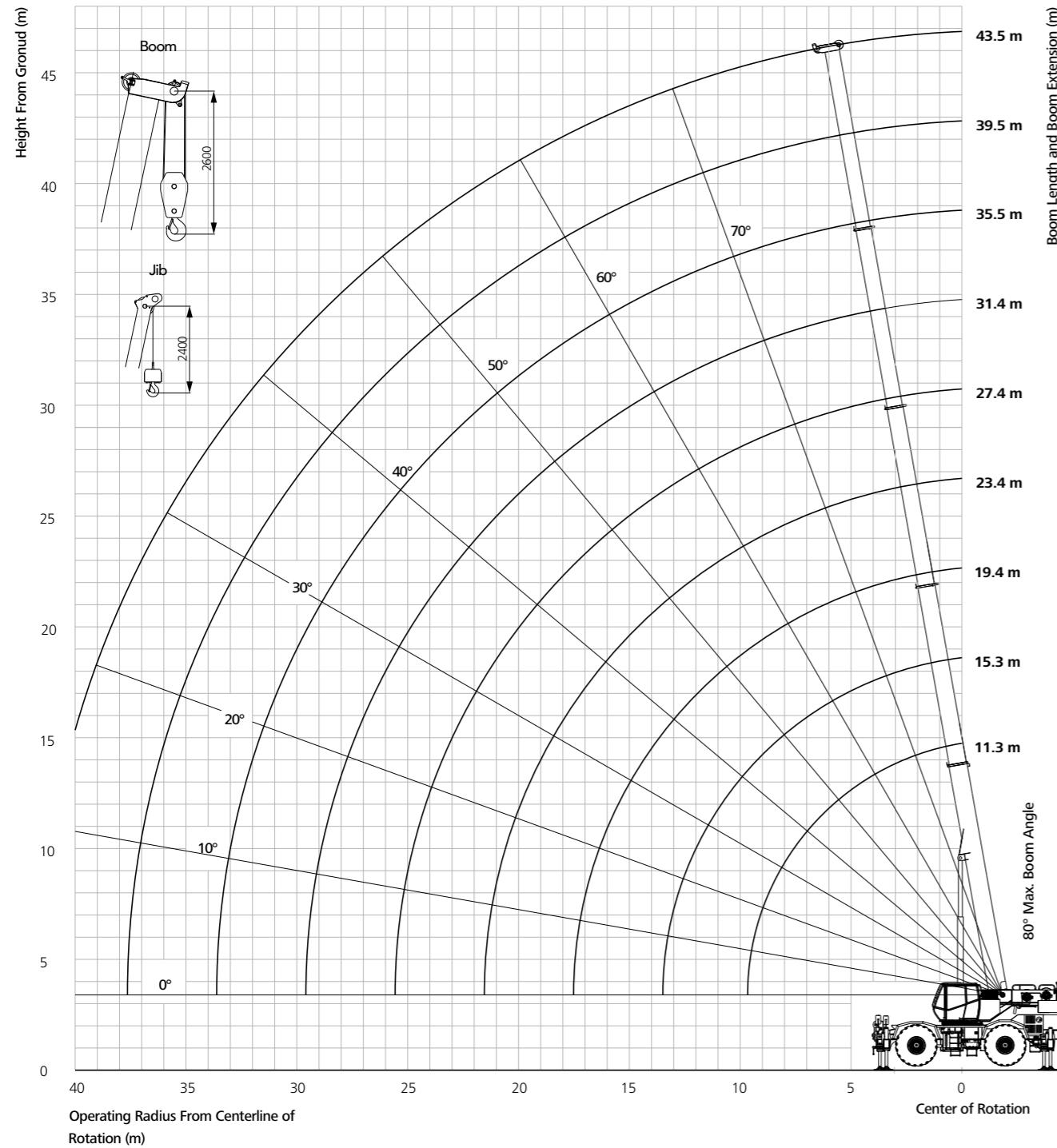
Hoist

- 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

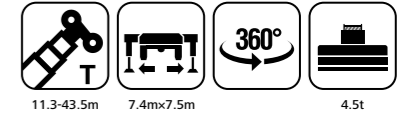
- 360° rotation, Maximum speed: 2.6r/min. Hydraulic controlled proportional speed adjustment is applied, providing stable and reliable operation of the system. Unique slewing buffer design ensures more stable braking operation.

Boom Operating Range



Load Chart - Telescopic Boom

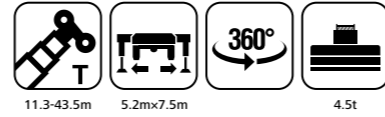
Unit: kg



Working radius(m)	11300	15325	19350	23376	27400	31426	35450	39475	43500	Working radius(m)						
3.0	60000	45000	35000	22000						3.0						
3.5	57000	45000	35000	22000	25000	20000				3.5						
4.0	54000	45000	35000	22000	25000	20000	22500	17050		4.0						
4.5	47800	43000	33000	22000	25000	20000	22500	17050	17500	15000	4.5					
5.0	43000	41000	32000	22000	24500	20000	22000	17050	17500	15000	5.0					
5.5	39000	38000	32000	22000	24200	20000	21500	17050	17500	15000	15500	11000	5.5			
6.0	35500	34700	32000	22000	23800	19500	20500	17050	17500	14500	14500	11000	6.0			
6.5	32500	32000	30500	22000	22300	19000	19800	16300	17500	14000	14000	11000	12500	10000	6.5	
7.0	30000	29700	29000	22000	21500	18500	18800	15700	17500	13500	14000	11000	12000	10000	9500	7.0
7.5	27800	27500	26000	22000	21000	18000	18000	15000	17500	13000	13000	11000	11500	10000	9500	7.5
8.0	25800	25000	23500	22000	20000	17500	17200	14500	16500	12500	12500	11000	11000	10000	9500	8.0
9.0	20000	20000	19500	21700	18000	17000	16500	13500	15000	12000	12000	10300	10500	10000	9300	9.0
10.0		16000	16000	17800	16000	12500	15000	12500	13500	11000	11500	9600	10000	9600	9000	10.0
12.0		10900	11000	12800	12000	12000	11800	10700	11000	10000	10000	8600	9000	9100	8300	12.0
14.0			7700	9800	8500	9500	8800	9350	8600	8600	8500	7800	8000	8600	8000	14.0
16.0			5500	7500	6000	7800	6800	8050	6900	7200	7100	6750	7300	7600	7350	16.0
18.0					4500	6500	5200	6550	5600	6200	5700	6050	6000	6200	5800	18.0
20.0					3400	5300	4100	5350	4400	5200	4500	5250	4800	4900	4700	20.0
22.0							3150	4450	3300	4400	3550	4550	3700	4150	3800	22.0
24.0							2450	3650	2500	3600	2850	3750	2900	3350	3100	24.0
26.0									1900	3100	2250	3250	2300	2850	2500	26.0
28.0									1500	2600	1750	2750	1900	2350	2000	28.0
30.0											1350	2350	1500	1950	1600	30.0
32.0											1000	1950	1200	1550	1250	32.0
34.0												900	1250	950	34.0	
36.0													700	1050	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

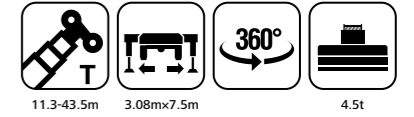
Load Chart - Telescopic Boom

Unit: kg



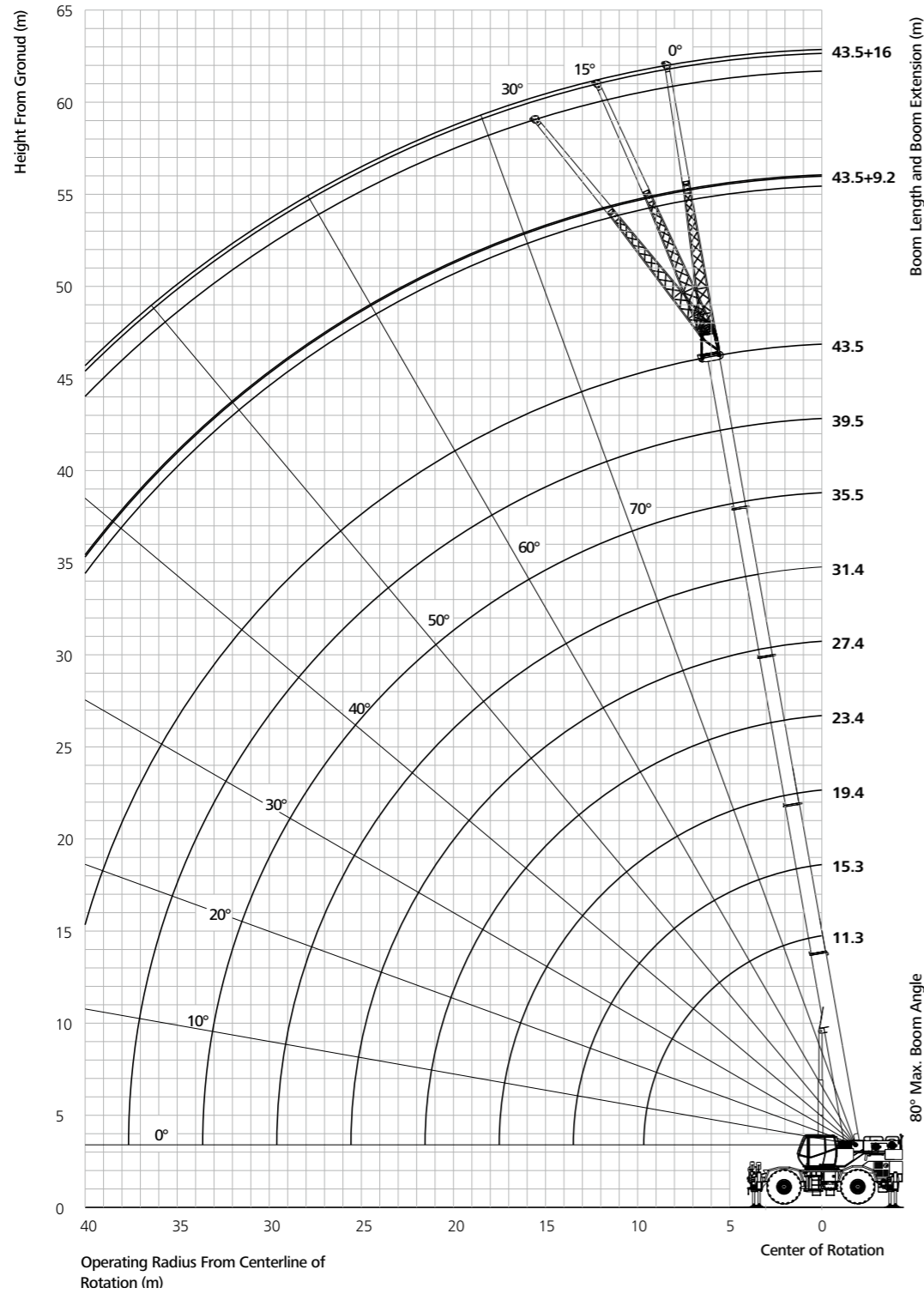
Working radius(m)	11300	15325	19350	23376	27400	31426	35450	39475	43500	Working radius(m)						
3.0	55000	45000	35000	22000						3.0						
3.5	50000	41000	32500	21000	25000	20000				3.5						
4.0	44400	37000	30500	19800	24000	19000	22500	18500		4.0						
4.5	38000	33500	29000	18800	22500	18000	21500	17200	17500	15000	4.5					
5.0	32000	30000	26500	17500	21500	16500	20800	15000	17200	14000	5.0					
5.5	27000	25500	23500	16200	20800	15000	20400	13800	17000	12800	15000	12500	5.5			
6.0	22500	21500	20000	15000	20000	14200	19800	13200	16500	12500	14500	12200	12500	10000	6.0	
6.5	19000	18000	17500	14200	18000	13500	18000	12800	15800	12300	14000	12000	12500	10000	6.5	
7.0	16000	15500	15200	13500	15400	13000	15500	12400	14800	12000	14000	11800	12500	10000	9500	7.0
7.5	14000	13800	13000	13000	13500	12500	13800	12000	13500	11800	13000	11500	12000	10000	9500	7.5
8.0	12000	12000	11000	12400	12200	12000	12500	11500	12200	11200	12000	11000	11500	10000	9300	8.0
9.0	9500	9500	9600	11200	9800	11000	10000	10600	10000	10400	10000	10200	9600	9700	9000	9.0
10.0		7400	7600	9700	7800	9500	8000	9200	8300	9200	8500	9000	8200	8300	8300	10.0
12.0		5000	5000	7200	5300	7000	5400	6800	5500	6700	5600	6600	5800	6000	6300	12.0
14.0			3400	5400	3700	5300	3900	5200	4000	5000	4100	4800	4300	4500	4600	14.0
16.0			2200	3800	2600	3700	2800	3700	2900	3500	3000	3500	3200	3400	3400	16.0
18.0					1800	2700	2000	2800	2100	2800	2200	2800	2400	2600	2600	18.0
20.0					1200	2100	1500	2200	1600	2200	1700	2200	1900	2100	2000	20.0
22.0							900	1700	1100	1800	1200	1800	1400	1600	1500	22.0
24.0								1300		1400	900	1400	1000	1200	1200	24.0
26.0									1000		1100		1000	900		26.0
28.0									900		900					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



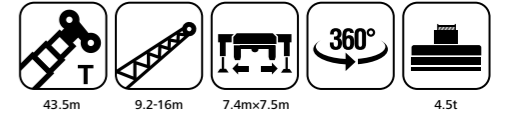
Working radius(m)	11300	15325	19350	23376	27400	31425	35450	39475	43500	Working radius(m)						
3.0	30000	30000	25000	22000						3.0						
3.5	24800	24000	23500	20500	20000	20000				3.5						
4.0	18800	18000	17500	18000	17000	17800	16500	17500		4.0						
4.5	15200	14500	13500	15500	14000	15500	14000	15200	14000	15000	4.5					
5.0	12900	12000	11400	13500	11800	13500	12000	13200	12000	13000	5.0					
5.5	11200	10500	10000	11500	10200	11500	10500	11500	10800	11200	10500	11000	5.5			
6.0	9800	9000	8500	10200	9000	10200	9200	10200	9500	10000	9200	9800	9000	9200	6.0	
6.5	8600	8000	7500	8800	7800	8900	8000	9000	8200	9000	8200	9000	8200	8400	6.5	
7.0	7600	7000	6500	7800	7000	7900	7200	8000	7300	8000	7300	8000	7400	7600	7400	7.0
7.5	6600	6000	5600	7000	6200	7100	6500	7200	6500	7200	6500	7200	6500	6700	6500	7.5
8.0	5700	5200	5000	6000	5200	6100	5500	6200	5600	6200	5600	6200	5600	5800	5700	8.0
9.0	4300	4000	3800	4700	4200	4900	4500	5000	4500	5000	4500	5000	4500	4700	4400	9.0
10.0		3000	2800	3600	3000	3800	3200	3900	3200	4000	3200	4000	3300	3500	3400	10.0
12.0		1600	1400	2400	1800	2600	2000	2700	2100	2800	2200	2800	2300	2500	2400	12.0
14.0				1600	1000	1800	1200	1900	1300	2000	1400	2000	1600	1800	1700	14.0
16.0				1000		1200		1300	800	1300	900	1400	1100	1300	1200	16.0
18.0								900		900		1000	700	900	800	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: kg



Working length of the boom	43.5+9.2			43.5+16			Working length of the boom
	0°	15°	30°	0°	15°	30°	
80	4500	2700	2400	2600	1500	1100	80
78	4500	2700	2400	2600	1500	1100	78
76	4000	2500	2300	2400	1400	1100	76
74	3750	2400	2250	2200	1300	1100	74
72	3500	2300	2150	2000	1200	1000	72
70	3000	2200	2050	1800	1150	1000	70
68	2700	2100	1950	1600	1100	950	68
66	2500	2000	1850	1500	1050	900	66
64	2200	1800	1750	1450	1000	850	64
62	2000	1650	1500	1300	950	800	62
60	1700	1450	1200	1100	850	750	60
58	1200	1000	850	900	750	650	58
56	1000	850	750	800	650	600	56
54	800	700	600	700	600		54
52	700	600	550				52
50	600						50
Min Angle(°)	48°	50°	50°	52°	52°	54°	Min Angle(°)

Load Chart - Telescopic Boom

Unit: kg



Radius	11300	15325	19350	23375	27400	Radius
3	18100	14100	9000			3
3.5	16000	14100	8000	6500		3.5
4	14300	14100	7000	6500		4
4.5	12850	12650	7200	6500	5500	4.5
5	11600	11400	6500	6500	5000	5
5.5	10500	10300	6000	6000	4500	5.5
6	9200	9350	5300	5000	4200	6
6.5	8000	8400	4800	4300	3800	6.5
7	7000	7500	4200	4000	3500	7
7.5	6000	6600	3800	3500	3200	7.5
8	5300	5800	3200	3000	2900	8
8.5	4650	5400	2950	2700	2500	8.5
9	4000	5000	2700	2400	2200	9
10		4000	2200	2000	1900	10
11			1700	1600	1500	11
12				1500	1300	12
14					1000	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: kg



Radius	11300	15325	19350	23375	27400	Radius
3	20000	16000	15000			3
3.5	20000	16000	15000	11000		3.5
4	20000	16000	14000	11000	10000	4
4.5	17500	15000	13000	11000	10000	4.5
5	14500	13000	12000	11000	10000	5
5.5	12000	11000	11000	10000	10000	5.5
6	10300	10000	10000	9500	9500	6
6.5	9100	9000	8800	9000	9200	6.5
7	7800	7900	8000	8000	8000	7
7.5	6800	6900	7000	7200	7500	7.5
8	6000	6000	6000	6500	7100	8
8.5	5200	5000	5000	6000	6300	8.5
9	4500	4500	4000	5000	5500	9
10		3500	3000	4000	4200	10
11			2000	3300	3800	11
12			1000	2800	3000	12
14				1800	2000	14
16				1000		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: kg

Radius	11300	15325	19350	23375	27400	Radius
3	12000	10500	10000			3
3.5	12000	10500	10000			3.5
4	10000	10000	9000	8000		4
4.5	8600	8000	8000	6500	5500	4.5
5	7000	6500	6000	5700	5500	5
5.5	5800	4800	4500	5000	5500	5.5
6	4300	3000	3000	4000	5500	6
6.5	3000	2500	2500	3000	3500	6.5
7	2500	2000	2000	2500	3000	7
7.5	2000	1500	1500	1700	2000	7.5
8	1500	1500	1500	1700	2000	8
8.5		1000	1000	1200	1500	8.5
9					1000	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



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— Authorised Dealer —

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.

Any change in the technical parameters and configuration due to advancement in technology may occur without prior notice. The machine in the figures may include auxiliary equipment. This brochure is for reference only, and goods in kind shall prevail.

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