SANY®

CE

SPECIFICATION

BETTER WORLD, BETTER SANY CRANE

SRE450N

SANY ROUGH TERRAIN CRANE

45 t

37.4 m

48 m

www.sanyglobal.com

QUALITY CHANGES THE WORLD

The parameters, pictures and standard/optional equipment are only for reference in this brochure, the actual machine is based on the effective price list and contract.

V1.0

SANY CRANE is one of the core business units in SANY Group, specializing in the development and manufacturing of high-end wheeled cranes, crawler cranes.

BETTER WORLD, BETTER SANY CRANE

SANY CRANE

QUALITY CHANGES THE WORLD

CONTENTS

SANY Rough Terrain Crane SRE450N / 45t Lifting Capacity

A 45t rough terrain crane with five section 37.4m boom, vehicle width < 2.55m, featuring stronger capacity yet reduced self-weight. Jib swing-out process is controlled hydraulically via remote device in only 15 minutes, allowing quick setup once arriving at jobsite. Key components come from international name brands. Operator comfort is improved by brand new cab design.

Strong lifting capacity

Best in class

Auto-swing jib

Swingout/back via remote control

Brand-name components

Cummins engine/Dana transmission/Meritor axles

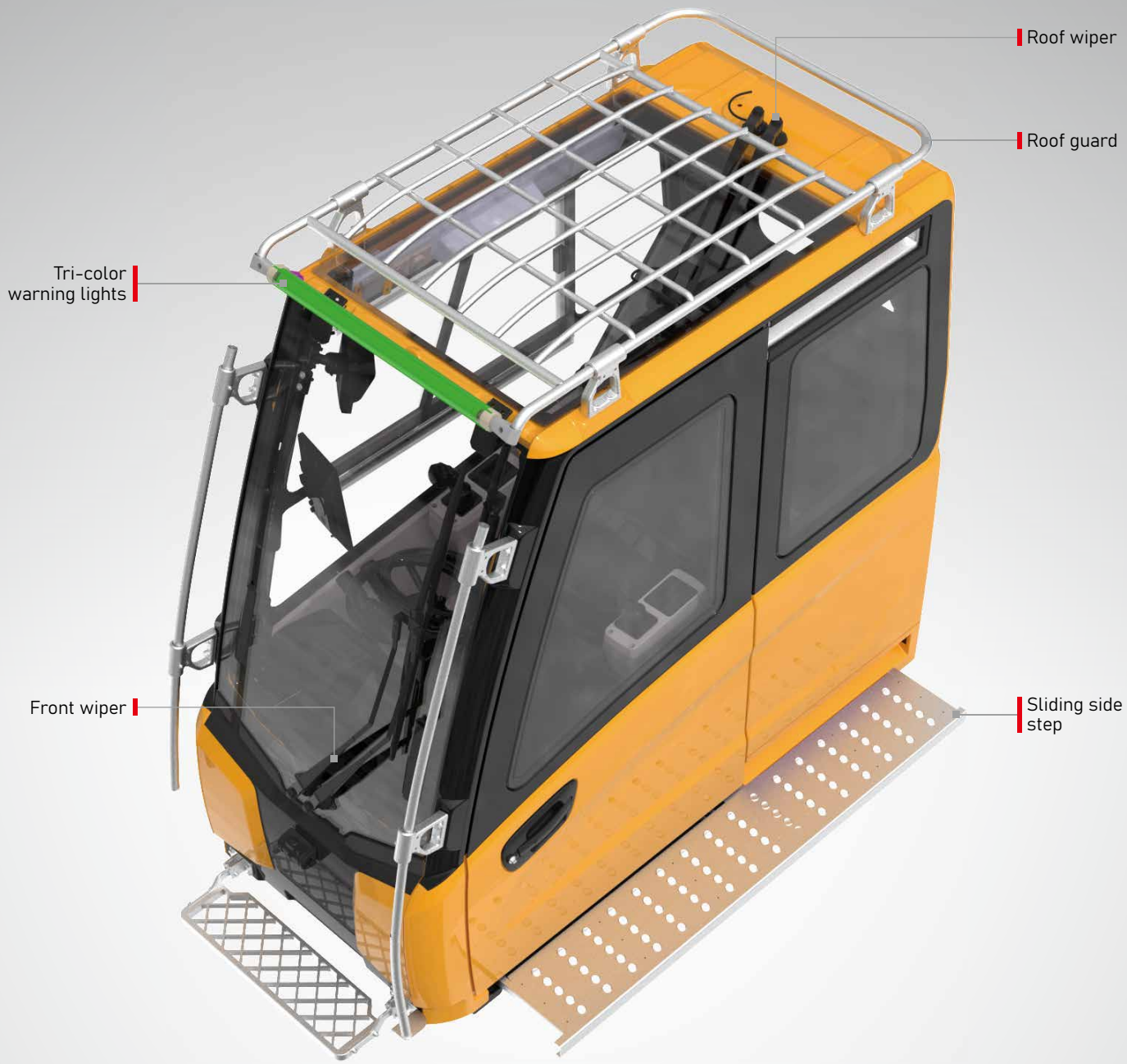
All new operator's cab

Ergonomic concept of safety and comfort

Convenient transport

One-trailer transport at low operational cost

All New Operator's Cab

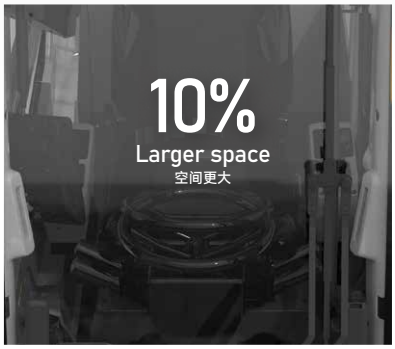


Safety & Reliability

Comfort & Convenience

Simplicity & Efficiency

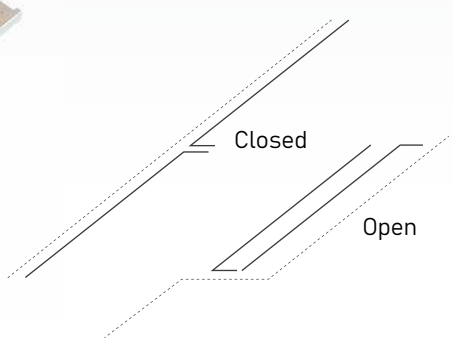

Rearview and winch monitor
Emergency stop switch
10.1 inch LMI screen
Outrigger control panel
Pedals
Steering column
Cup holder
Joystick
Joystick
Left control panel
Right control panel & LMI navigation knob
Armrest



Integrating SUV genes, overall space is enlarged by 10% and forward field of vision is increased by 33%. The front windshield can be opened by 110 degrees, providing better ventilation and a second emergency exit.

Sliding door transits between tracks when closing to make perfect thermal and acoustical insulation.

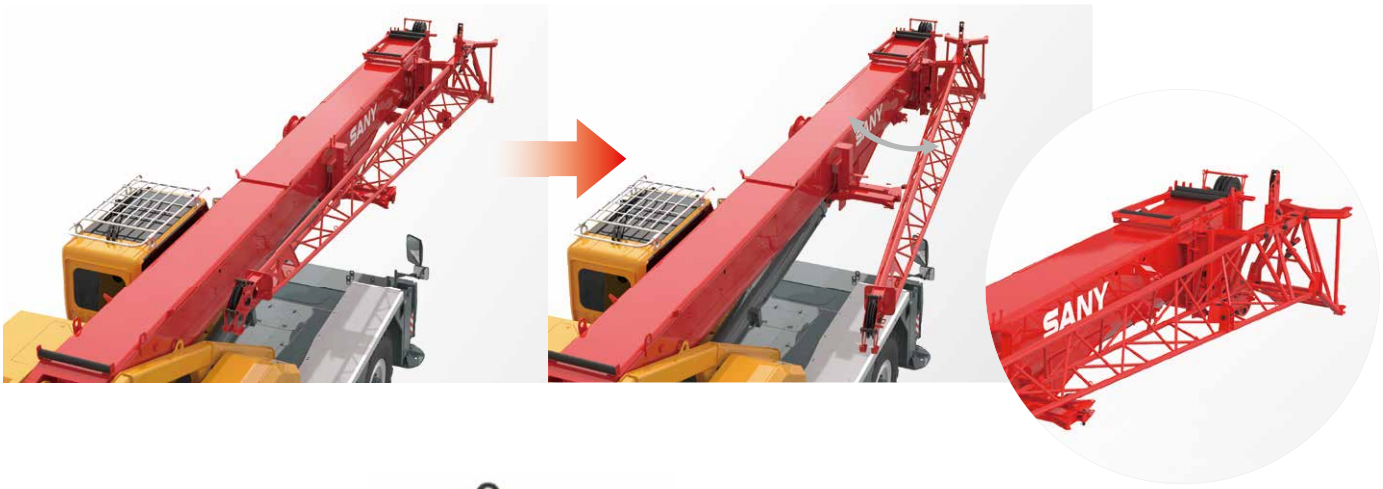
Getting in and out is made more convenient with the power sliding side step.



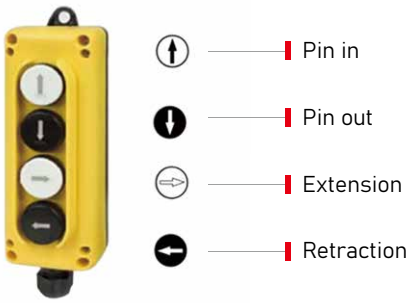
Adjustable steering wheel for driving and controlling, modular control panels, and smart user interface deliver intuitive and highly efficient control.

Auto-swing Jib

Hydraulic power-assisted jib deployment, handled by one person using a remote controller within 15 minutes.



Wired remote controller (Optional)



Wired remote controller (Optional)

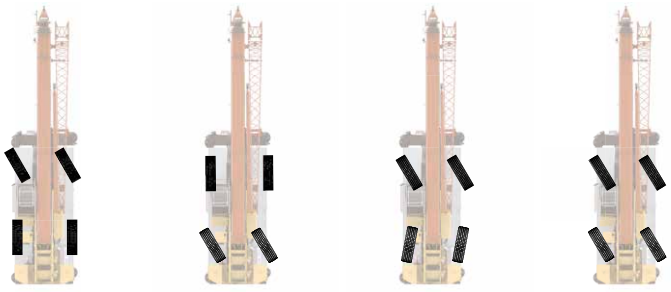
Wireless Remote Control System (Optional)

Main functions

Outrigger control - single-piece / single-side outrigger beam and jack telescoping in/out.
Crane operation - boom telescoping, luffing, slewing, hoisting.
Auxiliary action control - jib pushing/pulling.

Convenient Transport

Four Steering Modes

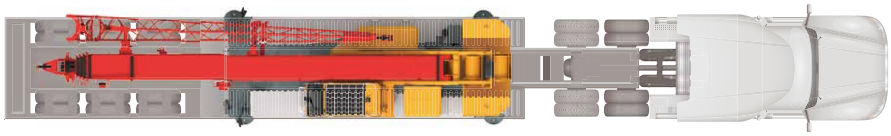


❶ 2 wheel front | ❷ 2 wheel rear | ❸ 4 wheel | ❹ Crab

Steering control panel

One-Trailer Transport

The basic machine is transported at 31.3t with counterweight, jib and hooks, 2.54m wide and 3.6m high, satisfying road regulations.

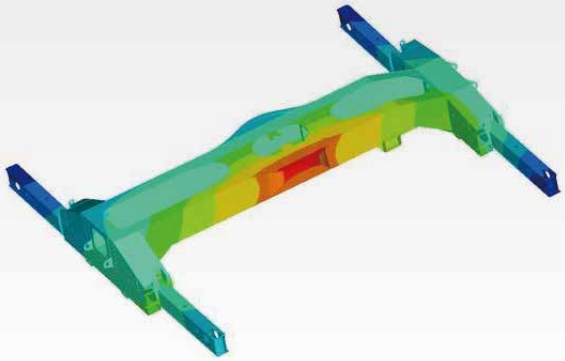


Carrier Frame

Inverted trapezoidal variable cross section frame is 10% stronger in rigidity.

10%
Rigidity

High strength frame



Stable support

Electrical System

Smart CAN-BUS Communication System

International advanced CAN-BUS data communication network applied for display, instrument panel, I/O module, joysticks and main sensors, allowing for high-speed data transmission and quick response in less than 20ms.

Advanced Multi-Function Display Screen

Features a 10.1-inch high-definition display with a brand-new user interface, supporting multiple control methods, including touch and rotary knob operation. The screen provides comprehensive equipment status information, such as working conditions, load moment, engine and transmission data, controller I/O points, and operation time statistics. It also integrates extended features like virtual walls, and a radio.

Precise Load Moment Indicator

SANY independently developed high-precision LMI, with an accuracy of 0~5%.

Cabling

Centralized junction box and heavy-duty connector applied for cabling of superstructure, convenient for maintenance; IP rating up to IP67, ensuring high reliability.

Winch Camera

Winch cameras equipped for monitoring its working condition and identifying rope disorder in time.

Integrated Bus Button Panel Input

Various operating states displayed by button indicator lights, and one-button multi-functional operation realizable by writing various operation modes.

Power Train

Engine

Power comes from a Cummins B6.7 inline six-cylinder water-cooled, turbocharged and intercooled off-highway diesel engine, complying with Stage V emission standard.
Rated power: 173kW/2000rpm.
Max. torque: 949N·m/1500rpm.

Transmission

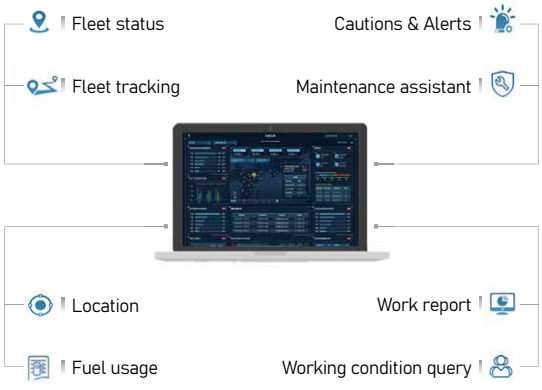
Dana electronically controlled auto transmission features 6 speeds forward and 3 speeds reverse, wide ratio range, and smooth gearshift with reduced maintenance cost.

Axles and Suspension

Meritor axles, both axles are driven and steered. Front axle is mounted to the frame by independent steel plate, and rear adopts oscillation cylinders with hydraulic lockout. Driving comfort and lateral stability is therefore guaranteed on rough terrains and conditions.

MachineLink+

ROOTCLOUD T-AMS Pro device comes as standard to realize GPS trajectory, machine status, maintenance management, alarm management on computer or mobile MachineLink+ platform, by remote control of cranes. This telematics package greatly boosts efficiency of customer fleet management and helps provide better after-sales services.



Hydraulic System

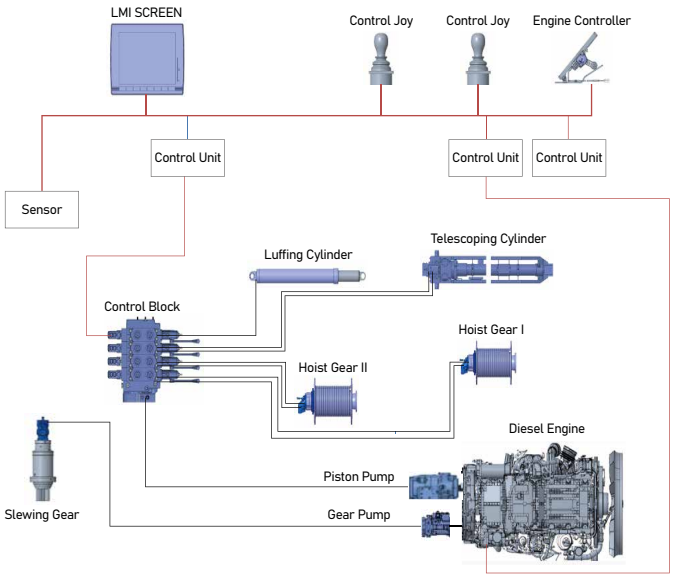
Five boom sections extended by double cylinder with rope arranger, 2nd boom extended by cylinder I, 3rd ~5th sections telescoped by cylinder II with rope pull. Synchronized telescoping of variable lengths for more applications with higher efficiency.

Superstructure

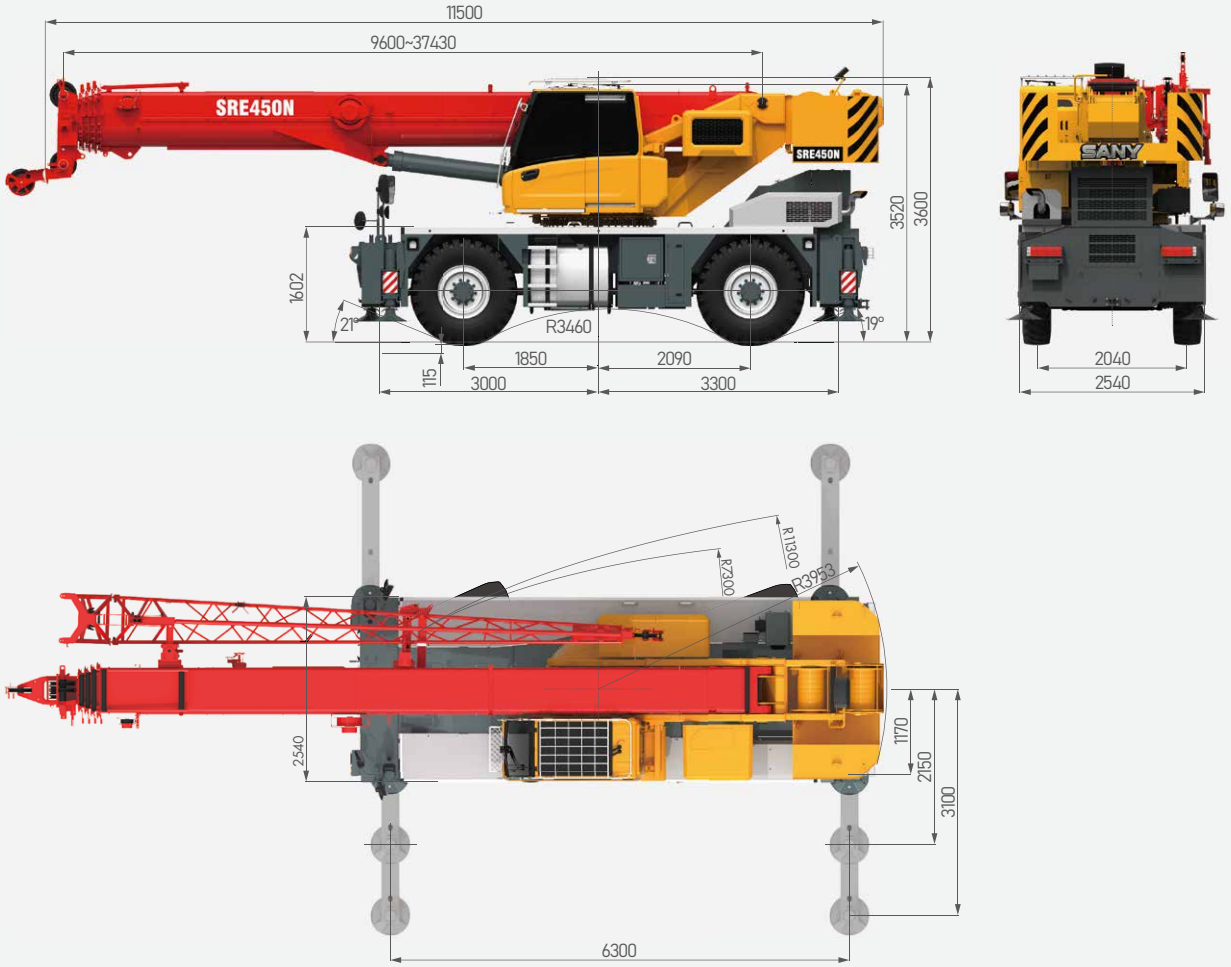
Open-type electronically controlled load-sensing system.
Electro proportional compensated passive luffing-down system applied to control the luffing speed, making luffing more reliable and stable.
360° slewing brake realizing precise control of slewing speed.
Electronically controlled load-sensing hydraulic system, electronic joystick and electronic throttle, ensuring easy operation and more accurate control and millisecond-level action response speed, with min. single-rope hoisting speed 0.8m/min, and distribution difference in case of combined motions 8%.

Chassis

Steering System
A gear pump installed to supply oil for hydraulic steering, steering pressure controlled by electro-proportional relief valve, four steering modes realized by solenoid directional valve.
Suspension System
Different modes including normal driving and Pick & Carry with suspension locked, suspension to be locked when the crane is working.
Outrigger Telescoping System
The electro proportional relief valve identifies pressure staging of outrigger telescoping, satisfying operation requirements under high pressure and forming protection under limited pressure.



Overall Dimensions



Technical Specification

CATEGORY	ITEM		UNIT	VALUE
CAPACITY	Max. lifting capacity		t	45
WEIGHT	Gross weight		kg	31300
POWER	Engine model		-	B6.7 (Stage V)
	Max. engine power		kW/rpm	173/2000
	Max. engine torque		N·m/rpm	949/1500
DIMENSIONS	Overall length		mm	11500
	Overall width		mm	2540
	Overall height		mm	3600
TRAVEL	Max. travel speed		km/h	25
	Steering radius	Min.steering radius	m	11.6/7.3
		Min.steering radius of boom tip	m	10
	Wheel formula		-	4×2/4×4
	Min.ground clearance		mm	415
	Approach angle		°	21
	Departure angle		°	19
	Max. gradeability		-	98%
MAIN PERFORMANCE	Working temperature range		℃	-20~+51
	Min.rated lifting radius		m	2.5
	Tail slewing radius		m	3.95
	Boom sections (Qty.)		-	5
	Boom shape		-	U shape
	Max.lifting moment	Basic boom	kN·m	1396
		Full-extension boom	kN·m	550
		Full-extension boom + jib	kN·m	388
	Boom length	Basic boom	m	9.6
		Full-extension boom	m	37.4
		Full-extension boom + jib	m	45.4
	Max.lifting height	Basic boom	m	12.5
		Full-extension boom	m	40.1
		Full-extension boom + jib	m	48
	Outrigger span (Longitudinal×Transverse)		m	6.3×6.2
	Jib offset		°	0, 20, 40
AIR CONDITIONER	In operator's cab		-	Heating & cooling

Technical Specification

Axle Load Distribution

Rated load /t	Weight (kg)	Load on front axle (kg)	Load on rear axle (kg)
Basic machine	29560	13400	16160
Optional Configuration	-	-	-
Auxiliary hoist	650	-250	900
Fixed jib	550	1170	-620
Auxiliary boom nose	35	85	-50
45t main hook	420	1000	-580
40t main hook	320	770	-450
5t auxiliary hook	85	215	-130

Axle Load

Axle	1	2	Gross weight
Axle load/kg	15500	15800	31300

Remark: Boom angle 0°, with main hook, aux. hook, jib, Aux. hoist.

Hook

Rated load /t		Number of sheaves	Rope rate	Hook weight/kg
45	○	5	10	420
40	●	4	8	320
5	○	-	1	85

● Standard ○ Optional

Operations

Item		Max.single rope lifting speed (empty load)	Rope diameter/length	Max. single line pull
Main winch		130m/min	Φ16mm/165m	5.6t
Auxiliary winch		130m/min	Φ16mm/110m	5.6t
Slewing speed			2.6r/min	
Full luffing up/down time of boom			45s/50s	
Full extension/retraction time of boom			100s/100s	
Outrigger jack	Extension		15s	
	Retraction		15s	
Outrigger beam	Extension		15s	
	Retraction		15s	

Crane Introduction

Carrier

Carrier frame

- Double longitudinal beam construction welded by high strength steel plate, higher bearing capacity.

Chassis engine

- Model: Cummins B6.7 inline six-cylinder diesel engine with watercooler and inter cooler.
- Rated power: 173kW/2000rpm.
- Emission standard: EU stage V.
- Fuel reservoir capacity: 330L.

Transmission

- Auto-transmission, 6 forward gears and 3 reverse gears, large speed ratio range, adaptable to slope climbing and high-speed traveling.

Axle

- Two axle chassis of flexible maneuverability, four-wheel drive, excellent dynamic performance.

Suspension system

- The front is rigidly mounted, and the rear axle adopts pivot oscillation suspension with hydraulic lockout.

Electrical system

- Two packs of 12V, 180Ah batteries.

Tires

- Large diameter off-road 16-25 tires deliver large ground clearance and strong off-road agility.

Wheel formula

- 4×2/4×4.

Brake

- Dual circuit braking system. When one circuit fails, the other can still work normally, improving the safety and reliability of the braking system.

Hydraulics

- Adopt stable and high-quality main oil pump, enhancing system reliability. Precise parameter matching contributes to superior controllability of the vehicle.

Outrigger

- H-type telescoping outrigger, 4-point support, with span (longitudinal × transverse) 6.3m×6.2m.

Control system

- CAN-BUS: The bus instrument of integrated intelligent control electrical system can display driving parameters at any time, making driving easier. At the same time, engine failure prompt makes the maintenance and troubleshooting more convenient and faster.
- All-round safety protection, the main and auxiliary hoists are equipped with three-circle indicators and A2B switches to prevent over-hoist-down and over winding of the wire ropes.
- Load moment indicator: It adopts highly intelligent moment indicator system to fully protect lifting operation and ensure accuracy, stability and comfort.

Crane Introduction

Operator's cab

- New generation operator's cab, curved-rail sliding door, safety glass and corrosion resistant steel construction with softened interior trim. Equipped with panoramic skylight, adjustable seat and other user-friendly design incl. A/C, electric wiper, sunshade, making it more comfortable and easier to work. The LMI screen is equipped to realize the logic integration of the control console and the display, so that all working data can be seen at a glance.

Boom system

- Boom: Five-section, basic boom 9.6m, full-extension 37.4m, made of high-strength welded structural steel with U-shape cross-section.
- Jib: 8m jib, offset at 0°, 20°, 40°.

Slewing platform

- SANY independently developed, made of fine grain high strength steel in optimized structure.

Hydraulics

- Load sensing variable piston pump can adjust displacement in real time to achieve high precision flow control, greatly reducing energy loss.
- Winch adopts electronically controlled fixed displacement motor with high operation efficiency. Max. single rope speed of main and auxiliary winch is 130m/min.
- Slewing system integrating slewing buffer and free swing technology, start & brake process is smoother and the inching motion performance is ever better.

Hoist

- Pump and motor are applied, highly efficient and energy saving. Balance valve and unique anti-hook-slip technology are perfectly coupled to achieve smooth rise and fall of the load. Non-rotation high strength wire rope is used.

Luffing system

- Double acting single rod hydraulic cylinder with balance valve, luffing angle: -2°~ 80°. Passive luffing down, reducing energy consumption, improving luffing stability.

Slewing

- 360° slewing in both directions, max. speed 2.6r/min. It adopts electro proportional speed control for stable movement and system reliability. The unique slewing balance design makes the braking smoother.

Safety equipment

- Load moment indicator: Analytical mechanics is applied and moment limiter calculation system based on the hoisting mechanics model is established. Through online empty-load calibration, the rated accuracy can reach 0~10% to fully protect the hoisting operation. In case of overload, the system will automatically give an alarm to guarantee safety operation.
- The hydraulic system includes balance valve, relief valve, two-way holding valve, etc. to realize system stability and reliability.
- The main and auxiliary winches are equipped with third-wrap indicators to prevent over-hoist-down of the wire rope.
- Boom head and jib head are equipped with A2B switches to prevent the wire rope from over winding.
- The length & angle sensor and pressure sensor are equipped to signify working status in real time, automatically stopping hazardous actions with buzzer alarm.

Counterweight

- Fixed block 5.5t.

Optional equipment at extra fees

- Jib / Auxiliary winch / Auxiliary hook / Reversing camera / Winch camera / Boom tip camera / Spark arrester / Air intake shutoff valve / Outrigger load sensor / Wireless remote control / other equipment available upon request.

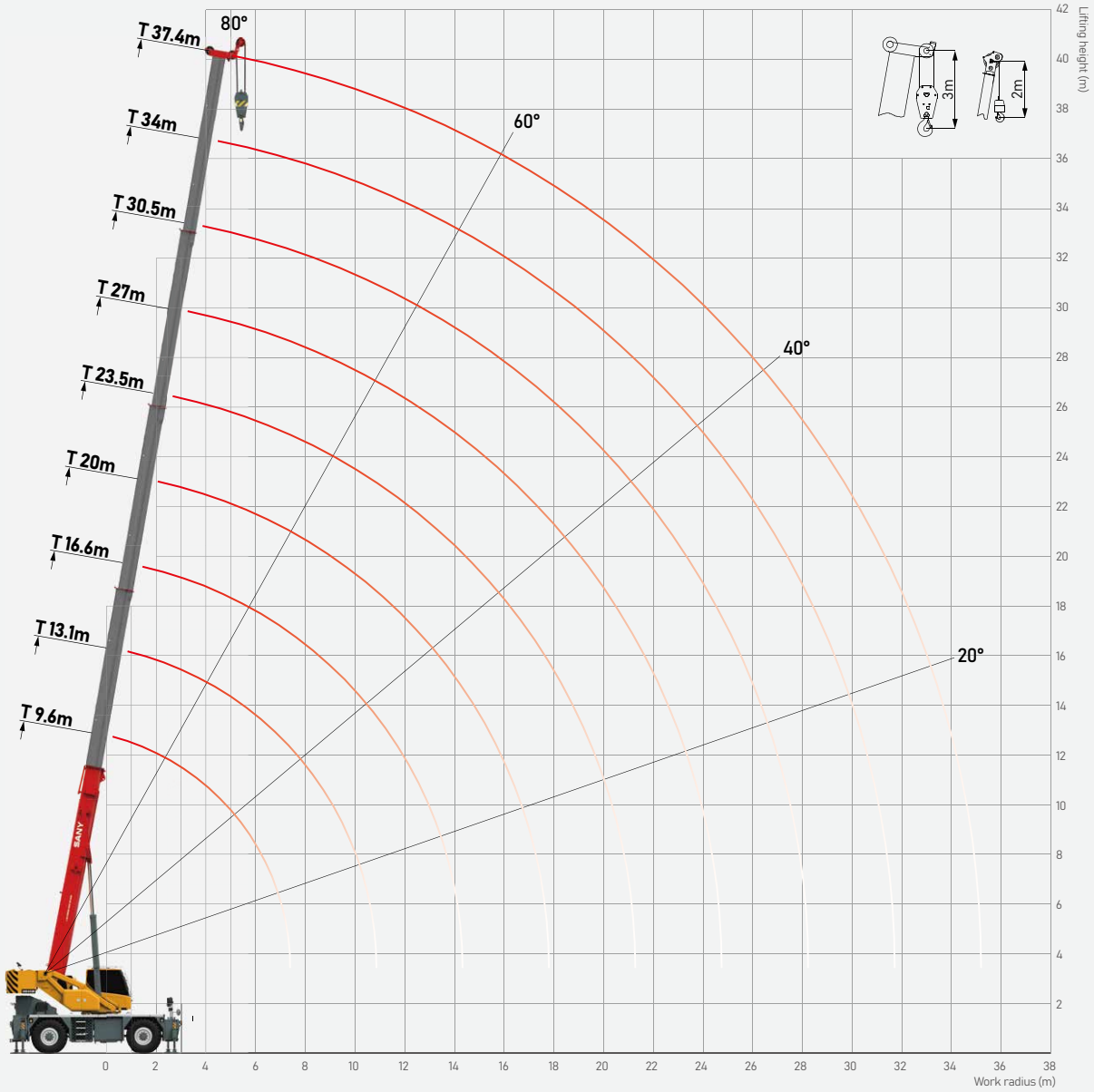
Working Conditions

Telescopic boom on outriggers

Fixed jib on outriggers

Telescopic boom on tires

Operating Range - Telescopic Boom (T)



Load Chart - Telescopic Boom (T)

Unit: t

m	Mode 1									Mode 2									m
	9.6	13.1	16.6	20.0	23.5	27.0	30.5	34.0	37.4	9.6	13.1	16.6	20.0	23.5	27.0	30.5	34.0	37.4	
2.5	45									45									2.5
3	40	36.6	26							40	19	18	17.6						3
3.5	35.7	33.5	24	17.6						35.7	19.2	18	17.6						3.5
4	33	31	22	17.6	17					33	19.8	18.5	17.3	13					4
4.5	30.5	29	20.7	17.6	17	14.5				30.5	20.3	18.5	16.4	12.5	10.1				4.5
5	28.5	27	19.5	17	16	14				28.5	20.5	18.5	15.5	12	9.6				5
6	22.5	21.5	18	15	14	12.2	10			22.5	22	18	14	11.5	8.8	6.4			6
7	16.2	16.5	15	13.5	12.5	10.9	9.7	7.5		16.2	17	16.5	13	10	8.4	5.8	6		7
8		13	12.3	12	11	9.8	8.8	7.5	5.6		13.5	14	12	9.5	8.1	5.5	5.6	5.6	8
9		10.5	10	10.5	10	8.8	8	7.1	5.4		10.6	11	11	8.5	7.9	5.4	5.2	5.4	9
10		8.2	8	8.5	9	8	7.4	6.7	5		9	9.5	9.2	7.7	7.5	5.3	4.9	5	10
11			6.5	7	7.5	7.3	6.7	6.2	4.7			8	7.9	7.1	7	5.1	4.6	4.7	11
12			5.5	6	6.5	6.5	6.2	6	4.4			7	7	6.6	6.5	5	4.5	4.4	12
13			4.8	5.2	5.5	5.8	5.7	5.8	4.2			6	6	6.2	6	4.8	4.4	4.2	13
14			4	4.3	4.7	5	5	5.2	4			5.2	5.4	5.3	5.2	4.7	4.3	4	14
15				3.8	4.2	4.3	4.5	4.5	3.7				4.8	4.8	4.7	4.5	4.2	3.7	15
16				3.3	3.5	3.8	4	4.1	3.5				4.2	4.3	4.4	4.1	4	3.5	16
17				2.8	3.2	3.4	3.6	3.7	3.3				3.8	4	4.2	3.6	3.6	3.3	17
18					2.8	3	3.2	3.3	3.1					3.5	3.7	3.2	3.2	3.1	18
19					2.5	2.7	2.9	3	2.9					3.2	3.5	3.1	3	2.9	19
20					2.2	2.3	2.7	2.7	2.7					2.9	3.2	2.9	2.8	2.7	20
21					1.9	2	2.2	2.5	2.4					2.6	2.8	2.7	2.4	2.4	21
22						1.8	2	2.3	2.2						2.6	2.5	2.2	2.2	22
23						1.6	1.8	2	1.9						2.4	2.3	2	1.9	23
24						1.3	1.6	1.7	1.8						2.2	2.1	1.9	1.8	24
25							1.4	1.5	1.6							2	1.8	1.6	25
26							1.3	1.3	1.5							1.8	1.6	1.5	26
27							1.2	1.1	1.3							1.6	1.5	1.3	27
28							1	0.9	1.2							1.4	1.3	1.2	28
29								0.8	1.1								1.2	1.1	29
30								0.7	0.9								1.1	0.9	30
31								0.5	0.7								0.9	0.7	31
32									0.6									0.6	32
33									0.5									0.5	33
34									0.4									0.4	34
35									0.3									0.3	35
1#	0%	50%	100%	100%	100%	100%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	50%	100%	1#
2#	0%	0%	0%	17%	33%	50%	67%	83%	100%	0%	17%	33%	50%	67%	83%	100%	100%	100%	2#
n	10	8	6	6	5	4	4	3	3	10	8	6	6	4	4	4	3	3	n

Load Chart - Telescopic Boom (T)

Unit: t

m	Mode 1									Mode 2									m
	9.6	13.1	16.6	20.0	23.5	27.0	30.5	34.0	37.4	9.6	13.1	16.6	20.0	23.5	27.0	30.5	34.0	37.4	
2.5	44									44									2.5
3	40	36.6	26							40	19	18							3
3.5	35.7	33.5	24	17.6						35.7	19	18	16						3.5
4	26.3	25	22	17.6	17					26.3	19	18.5	16	12.8					4
4.5	20.6	19.8	20.5	17.6	16.3	14				20.6	19	18.5	16	12.1	10.1				4.5
5	17	16.2	15.8	16.8	15.2	14				17	16.5	16.6	15	11.5	9.6				5
6	12.1	11.6	10.5	11.6	11.8	12.2	10			12.1	12	12.1	12.2	10.5	8.8	6.4			6
7	8.8	8.8	8	8.9	9.1	9.3	9.7	7.5		8.8	9.2	9.4	9.5	9.6	8.1	5.8	6		7
8		6.9	6	7	7.3	7.5	7.5	7.5	5.6		7.4	7.7	7.7	7.8	7.5	5.4	5.6	5.6	8
9		5.5	4.5	5.7	6	6	6.3	6.2	5.4		6.1	6.4	6.4	6.5	6.9	4.9	5.2	5.4	9
10		4	3.5	4.5	5	5	5.2	5.3	5		4.6	4.7	5.4	5.5	5.6	4.5	4.8	5	10
11			2.5	3	4.2	4	4.5	4.5	4.7			4	4.5	4.7	4.7	4.1	4.5	4.7	11
12			2	2.5	3.5	3.3	3.8	3.9	3.9			3.5	4	4.1	4.1	3.8	4.2	3.9	12
13			1.5	2	3	2.7	3.2	3.3	3.4			3	3.5	3.6	3.6	3.5	3.4	3.4	13
14			1	1.4	2.2	2.2	2.8	2.9	3			2.5	3	3.1	3.2	3.2	3	3	14
15				1	1.7	1.8	2.5	2.6	2.6				2.6	2.5	2.8	2.9	2.7	2.6	15
16				0.8	1.4	1.3	2.1	2.2	2.3				2.3	2.2	2.4	2.6	2.4	2.3	16
17				0.7	1.1	0.9	1.9	2	2				1.5	2	1.9	2.3	2.1	2	17
18					0.8	0.7	1.6	1.7	1.8					1.8	1.6	1.9	1.8	1.8	18
19					0.7	0.6	1.4	1.5	1.6					1.5	1.4	1.5	1.5	1.6	19
20					0.6	0.5	1.2	1.3	1.4					1.2	1	1.1	1.2	1.4	20
21					0.4	0.4	1.1	1.1	1.1					1	0.8	1.2	1	1.1	21
22							0.9	0.9	0.9						0.7	0.9	0.8	0.9	22
23							0.7	0.7	0.7						0.6	0.6	0.6	0.7	23
24							0.5	0.6	0.5						0.4	0.4	0.4	0.5	24
25							0.4	0.4	0.4							0.3		0.4	25
26									0.3									0.3	26
27																			27
28																			28
29																			29
30																			30
31																			31
32																			32
33																			33
34																			34
35																			35
1#	0%	50%	100%	100%	100%	100%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	50%	100%	1#
2#	0%	0%	0%	17%	33%	50%	67%	83%	100%	0%	17%	33%	50%	67%	83%	100%	100%	100%	2#
n	8	8	6	4	4	3	3	3	3	8	4	4	4	4	3	3	3	3	n

Load Chart - Telescopic Boom (T)

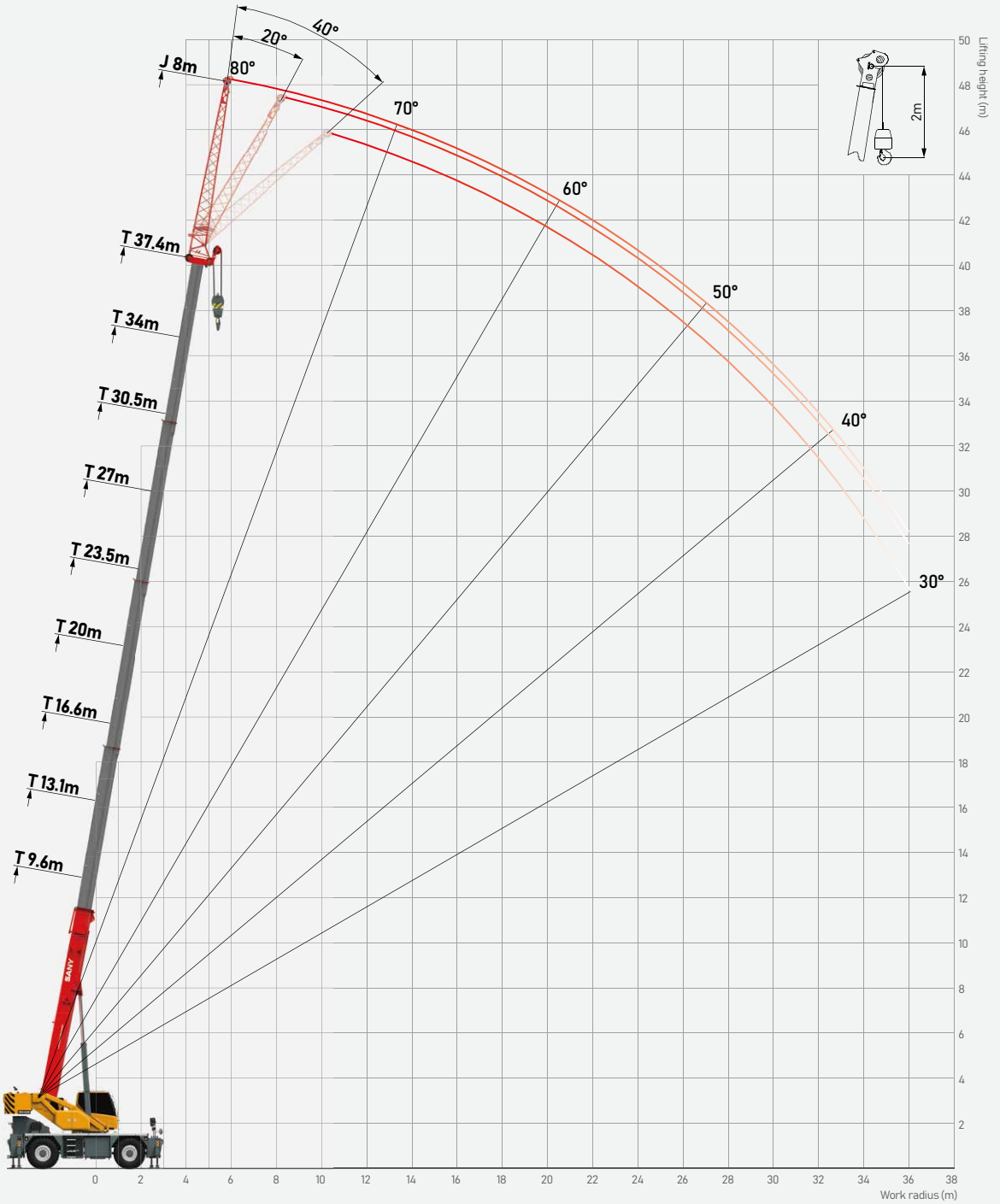
Unit: t

m	Mode 1									Mode 2									m
	9.6	13.1	16.6	20.0	23.5	27.0	30.5	34.0	37.4	9.6	13.1	16.6	20.0	23.5	27.0	30.5	34.0	37.4	
2.5																			2.5
3	18	16	15.5							18	19	18							3
3.5	14.5	12.6	12	12.4						14.5	14.5	14.3	14						3.5
4	11.3	10.3	1	10	10					11.3	11.8	11.7	11.5	12.8					4
4.5	9	8.6	8.2	8.4	8.5	8.2				9	9.8	9.8	9.8	9.8	10				4.5
5	7.5	7.5	7	7.2	7	7				7.5	8.3	8.5	8.4	8.5	8.3				5
6	5.5	5.5	5.2	5.4	5.4	5.4	5.4			5.5	6.2	6.5	6.5	6.6	6.5	6.4			6
7	4	4.1	3.9	4.2	4.3	4.3	4.2	4.3		4	5	5.1	5.2	5.3	5.2	5	4.5		7
8		3.2	3	3.3	3.4	3.5	3.5	3.4	3.4		3.8	4.1	4.2	4.3	4.3	4.2	3.8	3.4	8
9		2.5	2.3	2.6	3	2.9	2.9	2.8	2.8		3	3.4	3.5	3.6	3.6	3.6	3.1	2.8	9
10		1.8	1.8	2.1	2.6	2.4	2.4	2.3	2.3		2.4	2.8	2.9	3	3	3	2.6	2.3	10
11			1.3	1.6	2	2	2	2	2			2.3	2.4	2.5	2.6	2.6	2.3	2	11
12			0.9	1.2	1.6	1.6	1.7	1.6	1.7			1.9	2.1	2.1	2.2	2.3	1.9	1.7	12
13			0.6	0.8	1.2	1.3	1.4	1.3	1.4			1.6	1.7	1.8	1.9	2	1.7	1.4	13
14			0.3	0.5	0.9	1.1	1.2	0.9	1.2			1.3	1.5	1.6	1.6	1.7	1.5	1.2	14
15				0.3	0.7	0.8	0.9	0.6	1				1.3	1.4	1.4	1.5	1.3	1	15
16					0.4	0.6	0.8	0.5	0.8				1.1	1.2	1.2	1.3	1.1	0.8	16
17						0.4	0.6	0.4	0.7				0.8	0.9	1	1.1	0.9	0.7	17
18							0.4	0.3	0.6					0.7	0.9	1	0.7	0.6	18
19									0.4					0.5	0.8	0.8	0.6	0.4	19
20														0.4	0.4	0.6	0.5		20
21															0.3	0.4	0.3		21
22																0.3			22
23																			23
24																			24
25																			25
26																			26
27																			27
28																			28
29																			29
30																			30
31																			31
32																			32
33																			33
34																			34
35																			35
1#	0%	50%	100%	100%	100%	100%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	50%	100%	1#
2#	0%	0%	0%	17%	33%	50%	67%	83%	100%	0%	17%	33%	50%	67%	83%	100%	100%	100%	2#
C_n	4	4	4	4	4	3	3	3	3	4	4	4	4	4	3	3	3	3	C_n

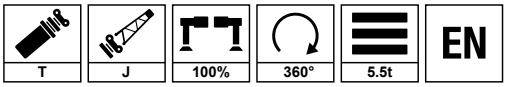
Remark:

1. Load capacity in the chart is the maximum weight which this crane could hoist, including the weight of hook blocks and riggings. The main hook weighs 320kg, the aux. hook weighs 85kg.
2. Radius shown in the chart is the actual radius when loading.
3. The load capacity in the chart is the maximum weight when this crane is supported with the firm ground and stays in level.
4. Choose rated load capacity of the longer boom and radius when the actual boom length and radius are between two values in the charts.
5. The machine can be used only when the wind force is less than grade 6.

Operating Range - Telescopic Boom + Fixed Jib (TJ)



Load Chart - Telescopic Boom + Fixed Jib (TJ)



Unit: t

	33.93m+8m			37.4m+8m			
	0°	20°	40°	0°	20°	40°	
9	3.2						9
10	3			2.8			10
11	2.9	2.1		2.7			11
12	2.7	2		2.7	1.8		12
13	2.6	1.9	1.5	2.6	1.8		13
14	2.5	1.8	1.5	2.5	1.7	1.5	14
15	2.4	1.7	1.4	2.4	1.7	1.4	15
16	2.3	1.6	1.4	2.3	1.6	1.4	16
17	2.2	1.6	1.3	2.2	1.6	1.3	17
18	2.1	1.5	1.3	2.1	1.6	1.3	18
19	2	1.5	1.3	2	1.5	1.3	19
20	1.9	1.5	1.3	1.9	1.5	1.3	20
21	1.8	1.4	1.3	1.8	1.5	1.3	21
22	1.7	1.4	1.2	1.7	1.4	1.2	22
23	1.6	1.4	1.2	1.6	1.4	1.2	23
24	1.5	1.4	1.2	1.5	1.4	1.2	24
25	1.4	1.3	1.2	1.3	1.4	1.2	25
26	1.3	1.3	1.2	1.2	1.3	1.2	26
27	1.2	1.2	1.2	1.1	1.3	1.2	27
28	1.1	1.1	1.1	1	1.2	1.2	28
29	1	1	1	0.9	1.1	1.2	29
30	0.9	0.9	0.9	0.8	1	1.2	30
31	0.8	0.8	0.8	0.7	0.9	1	31
32	0.6	0.7	0.7	0.6	0.8	0.8	32
33	0.5	0.6	0.6	0.5	0.6	0.6	33
34	0.4	0.5	0.5	0.4	0.5	0.5	34
35	0.3	0.4	0.4	0.3	0.4	0.4	35
36					0.3	0.3	36
1#	100%	100%	100%	100%	100%	100%	1#
2#	83%	83%	83%	100%	100%	100%	2#

Load Chart - Telescopic Boom, On Tires Stationary, 360° Slewing

Unit: t

m	Mode 1				Mode 2				m
	9.6m	13.1m	16.6m	19.8m	9.6m	13.1m	16.6m	20m	
3	12				12				3
3.5	9				9				3.5
4	8	7			8	8			4
4.5	6.5	6	5		6.5	7	6		4.5
5	5.5	4	4	4	5.5	6	5	5	5
6	3.5	3	3	3	3.5	4.5	4	4	6
7	2	2.3	2.2	2.2	2	3.3	3	3	7
8		1.5	1.3	1.5		2.5	2.5	2.5	8
9		0.8	0.7	1.1		1.8	2	2	9
10		0.3	0.3	0.6		1.3	1.7	1.5	10
11				0.3			1.2	1	11
12							0.8	0.8	12
13							0.5	0.6	13
14							0.3	0.4	14
15									15
16									16
17									17
1#	0%	50%	100%	100%	0%	0%	0%	0%	1#
2#	0%	0%	0%	17%	0%	17%	33%	50%	2#
n	3	3	3	3	3	3	3	3	n

Load Chart - Telescopic Boom, Pick & Carry, Load Over Front

Unit: t

m	Mode 1				Mode 2				m
	9.6m	13.1m	16.6m	20m	9.6m	13.1m	16.6m	20m	
3	10	9	8.8	9	10	9.5	9	9	3
3.5	8	8	7.5	8	8	8.5	8.5	8.5	3.5
4	7	7	7	7.2	7	7.5	8	7.8	4
4.5	6.5	6.2	6.2	6.5	6.5	6.8	7.2	7.2	4.5
5	5.5	5.8	5.5	5.8	5.5	6.2	6.5	6.5	5
6	4.5	4.5	4.5	4.8	4.5	5.2	5.5	5.6	6
7	3.5	3.8	3.6	4	3.5	4.5	4.6	4.8	7
8		3	3	3.3		3.8	4	4.2	8
9		2.5	2.4	2.8		3.2	3.5	3.5	9
10		2	1.8	2.3		2.6	3	3	10
11			1.4	1.8			2.5	2.6	11
12			1	1.5			2	2.2	12
13			0.7	1			1.7	1.9	13
14			0.4	0.7			1.4	1.6	14
15				0.4				1.4	15
16									16
17									17
1#	0%	50%	100%	100%	0%	0%	0%	0%	1#
2#	0%	0%	0%	17%	0%	17%	33%	50%	2#
n	3	3	3	3	3	3	3	3	n

Load Chart - Telescopic Boom, On Tires Stationary, Load Over Front

Unit: t

m	Mode 1				Mode 2				m
	9.6m	13.1m	16.6m	20.0m	9.6m	13.1m	16.6m	20.0m	
3	16	15	14.5	14	16	16	16	16	3
3.5	15	14	13.5	13	15	15.5	16	16	3.5
4	13	12.5	12	11.5	13	13.5	14	13.5	4
4.5	11	10.5	10	9.5	11	11.5	12	11.5	4.5
5	8	7.8	7.6	7.8	8	8.5	8.8	8.5	5
6	7.2	7.3	7	7.3	7.2	7.5	7.8	7.5	6
7	6.5	6.2	6	6.5	6.5	6.5	6.8	6.5	7
8		5.5	5.3	5.2		5.5	6	5.3	8
9		3.5	4	4		4.5	5	4.5	9
10		2.5	3	3.3		3.8	4	3.7	10
11			2.5	2.6			3.5	3	11
12			2	2			3	2.7	12
13			1.5	1.5			2.5	2.2	13
14			1	1.2			2	1.8	14
15				0.8				1.5	15
16				0.5				1.2	16
17				0.4				1	17
1#	0%	50%	100%	100%	0%	0%	0%	0%	1#
2#	0%	0%	0%	17%	0%	17%	33%	50%	2#
n	4	4	4	4	4	4	4	4	n

Remark:

1. Capacities are applicable at 975kPa cold tire inflation pressure.
2. Capacities are applicable only with machine on firm level surface.
3. On tire lifting with the jib mounted is not permitted.
4. Axle lockouts must be applied when lifting on tires.
5. Parking brake must be applied when lifting on tires stationary.
6. Driving speed shall be ≤4km/h at pick & carry mode.

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