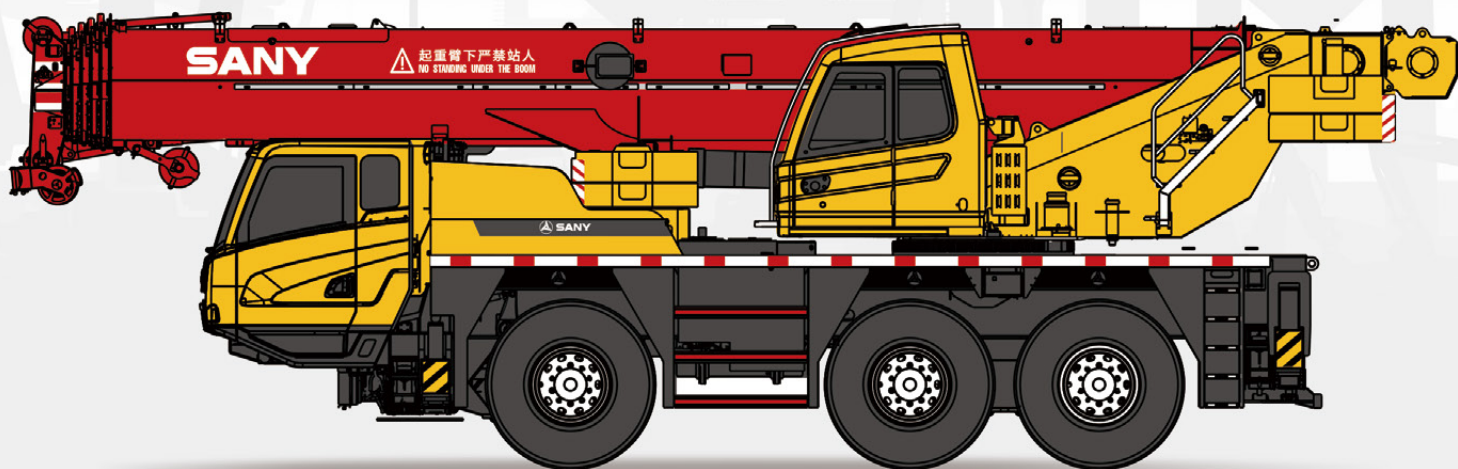


**PRODUCT
SPECIFICATIONS**



SAC600E

SANY ALL TERRAIN CRANE
60T LIFTING CAPACITY



Max. Lifting Capacity: 60t
Max. Boom Length: 50m
Max. Lifting Height: 66.5m



SANY ALL TERRAIN CRANE SAC600E / 60T LIFTING CAPACITY

Optimal Performance

- Made of high strength structural steel, the telescopic boom integrates longer reach with lightweight concept. Longest boom is 50m, at which max. lifting height is 50.5m.
- Fixed jib mounted highly efficiently at offset angle 0°, 20°, or 40°, easy switchover.

Upgraded Operating Precision

- Key hydraulic components proved high quality and reliability, better controllability via precise data feedback.
- Smooth slewing and inching performance realized by integrated balance valve.

Enhanced Safety

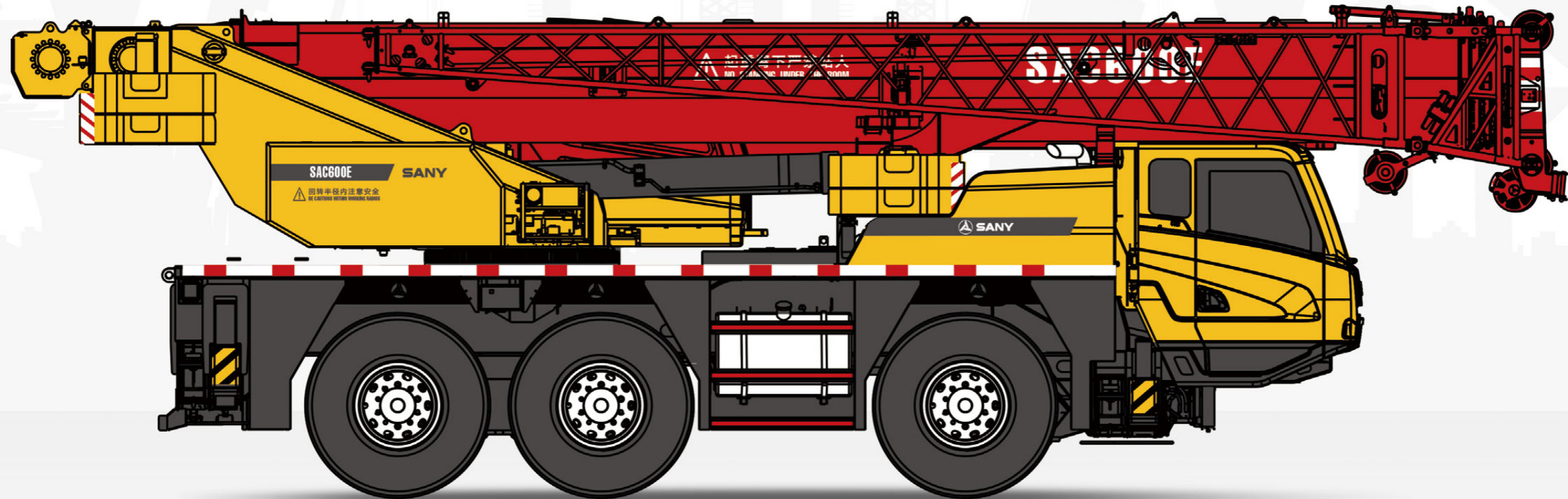
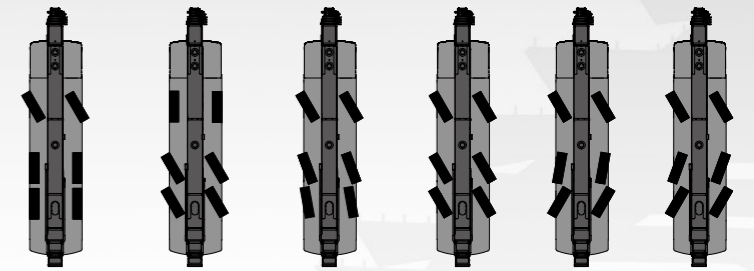
- LMI: all round protection, system warning for overloading.
- Hydraulic valves ensure stability.
- Hoist winch three-circle protector and boom top height limit switch prevent wire ropes from overhoisting up or down.
- Length, angle and pressure sensors help cut off dangerous motions automatically with buzzer warning.

Modernity & Fuel Economy

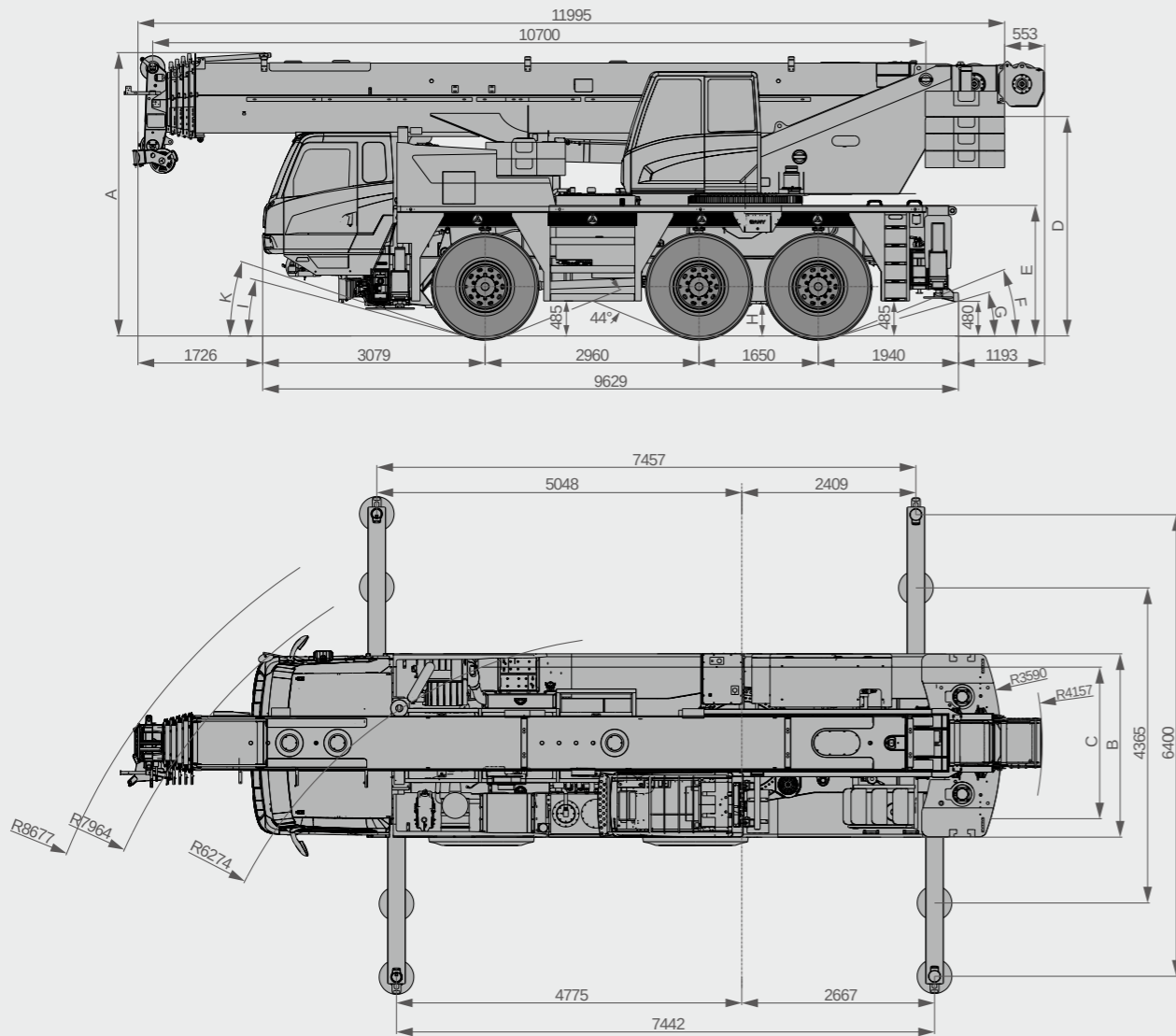
- Newly designed cab optimizes safety, comfort, and convenience of easier operation.
- Load sensing and constant power control optimize fuel utilization.

Access More in One

- SIX steering modes realize higher maneuverability, off-road agility, and improved riding comfort. Min. steering radius $\leq 6.5\text{m}$.



Overall Dimensions



Tire size	A	A*	B	C	D	E	F	G	H	I	K
Unit	mm	mm	mm	mm	mm	mm	°	°	mm	°	°
385	3777	3677	2550	2170	2992	1760	19.6	13.8	397	12	16
445	3827	3727	2550	2100	3042	1810	22	16	447	15	18
525	3827	3727	2690	2240	3042	1810	22	16	447	15	18

Remark: A column is calculated when suspension is at middle level. A* column is calculated when suspension is at lowest level.

Technical Specification

CATEGORY	ITEM	UNIT	VALUE	
CAPACITY	Max. lifting capacity	t	60	
WEIGHT	Gross weight	kg	36000	
POWER	Engine model (Emission standard)	-	OM470.E3A-3	
	Max. engine power	kW/rpm	280/1600	
	Max. engine torque	N·m/rpm	1900/1300	
DIMENSIONS	Overall length	mm	12200	
	Overall width	mm	2550	
	Overall height	mm	3900	
	Axle base	Axle 1&2	mm	2960
		Axle 2&3	mm	1650
TRAVEL	Max.travel speed	km/h	80	
	Steering radius	Min.steering radius	m	6.5
		Min.steering radius of boom tip	m	10
	Wheel formula	-	6X4X6	
	Min.ground clearance	mm	320(#385 tires)	
	Approach angle	°	15(#385 tires)	
	Departure angle	°	18(#385 tires)	
	Max.gradeability	%	67	
	Fuel consumption per 100km	L	60	
	Working temperature range	°C	-20~45	
MAIN PERFORMANCE	Min.rated lifting radius	m	3	
	Tail slewing radius	m	3.59	
	Boom sections (Qty.)	-	6	
	Boom shape	-	U	
	Max.lifting moment	Basic boom	kN·m	1881
		Full-extension boom	kN·m	1045
		Full-extension boom+jib	kN·m	630
	Boom length	Basic boom	m	10.7
		Full-extension boom	m	50
		Full-extension boom+jib	m	66
	Max.lifting height	Basic boom	m	11
		Full-extension boom	m	50.5
		Full-extension boom+jib	m	66.5
	Outrigger span (Longitudinal×Transverse)	m	7.45×6.4	
	Jib offset	°	0, 20, 40	
OPERATION SPEED	Max.single rope lifting speed of main winch (empty load)	m/min	130	
	Max.single rope lifting speed of auxiliary winch (empty load)	m/min	130	
	Full extension/retraction time of boom	s	350	
	Full luffing up/down time of boom	s	60	
	Slewing speed	r/min	1.6	
Airconditioner	In operator's cab	-	Heating & Cooling	
	In driver's cab	-	Heating & Cooling	

Technical Parameters



Axle Load

Axle	1	2	3	Total weight
Load per axle /t	12	12	12	36



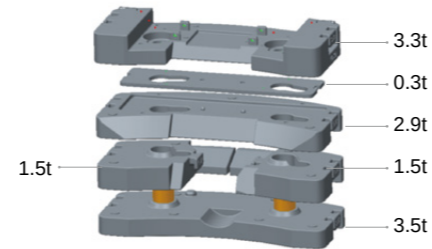
Operations

Item	Rope diameter/length	Max. single line pull
Main winch	15mm/220m	47.7kN
Auxiliary winch	15mm/220m	47.7kN
Slewing		1.6r/min
Luffing		60s/90s
Telescoping		350s
Outrigger jack	Retract	40s
	Extend	50s
Outrigger beam	Retract	40s
	Extend	50s



Counterweight Combinations

Total weight	3.3t	0.3t	2.9t	1.5t	1.5t	3.5t
3.3t	•					
3.6t	•	•				
7.1t	•	•				•
10.1t	•	•	•	•	•	•
13t	•	•	•	•	•	•



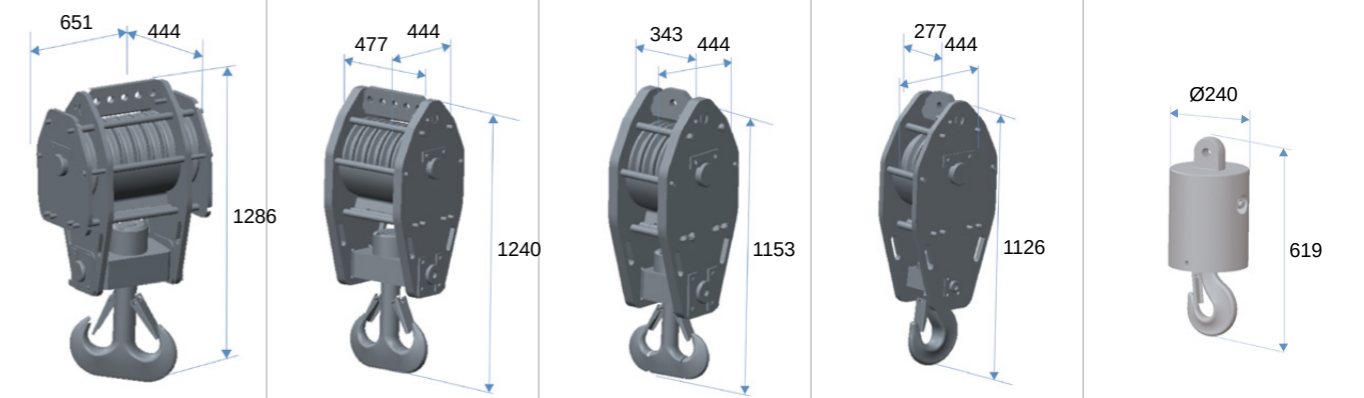
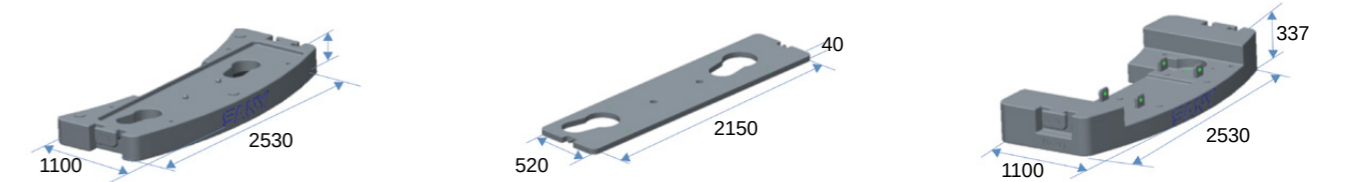
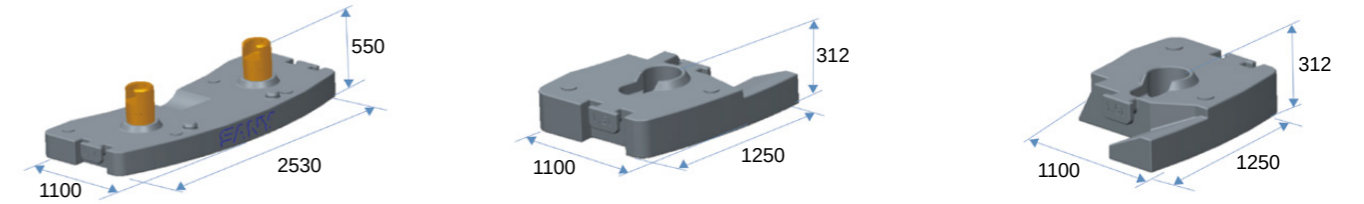
Hook

Travelling With Variable CW

Load/t	Number of sheaves	Rope rate	Hook weight /kg	Load per axle	Drive	Tire Size	Hook block	Counterweight
63t	7	15	463	<12t	6×6	445	6.3t	3.3t
50t	5	11	406	<12t	6×6	385	6.3t+16t	3.6t
32t	3	7	323	<12t	6×4	445	16t	3.6t
16t	1	3	215	<12t	6×4	385	6.3t+32t	3.6t
6.3t	-	1	108	<12t	6×4	525	6.3t	3.3t

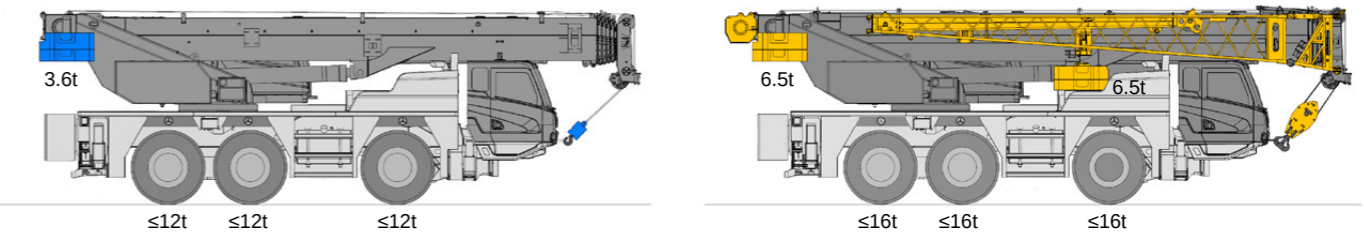
Transport Dimensions

Unit:mm



63t capacity hook block 50t capacity hook block 32t capacity hook block 16t capacity hook block 6.3t capacity hook block

Short distance transfer with CW



Crane Introduction

Carrier

Carrier frame

- Box-type welded structure using high strength steel plate, higher bearing capacity.

Engine

- BENZ OM470LA.E3A-3, in-line six-cylinder diesel engine with watercooler and inter cooler, complying with Euro 3 emission standard.
- Fuel reservoir capacity: 450L.

Transmission

- Allison auto-transmission, 12 forward gears and 2 reverse gears, large speed ratio range, high torque output.

Axle

- All wheel steering. Planetary transmission with differential lock. Driven by axles 2 and 3 (standard equipment).
- Axle 1 steered mechanically with hydraulic booster, axles 2 and 3 steered hydraulically. Easier and better maneuverability.

Suspension

- Hydro-pneumatic suspension with hydraulic lock, range $\pm 100\text{mm}$ in height. Smooth driving, anti-tipping.

Tire

- Size 385/95R25 (standard equipment), radial vacuum tires.

Braking

- Highly functional air-servo braking. Dual circuit disc service brake via pedal, parking brake via joystick, exhaust brake available for prolonged life of brakes.

Outrigger

- H-type layout, with hydraulic cylinder, auto-levelling.

Control system

- CAN-BUS communication, 24V DC, two battery sets (180Ah each), manual power-switch.
- Low energy cost (5w) integrated display system, LCD screen.

superstructure

Operator's cab

- Corrosion resistant bodywork of ergonomic design including softened interior trim and adjustable seat.

Boom system

- U-shape welded structure using high strength steel, single cylinder pin mechanism. 2-stage folding jib offset at $0^\circ, 20^\circ, 40^\circ$.

Slewing

- Slewing platform designed by SANY, 360° slewing. Electro-proportional closed hydraulics for smooth operation and better inching motion performance. Emergency brake available.

Hydraulics

- Self-developed double pump confluence and shunt main valve, higher efficiency for single motion and better maneuverability for combined motions.
- Auto adjustable oil pump with higher power use ratio and less energy cost. Variable plunger pump featuring load sensing and constant power control.

Hoist

- Main and auxiliary winches 15mm in diameter, and 220m, 220m in length respectively.

Luffing

- Passive luffing down with dynamic compensation. Boom angle: $-2^\circ \sim 82^\circ$.

Safety equipment

- Self-developed LMI.
- Hydraulic balance valve, relief valve, two-way pilot-controlled valve.
- Three-circle winch protector, height limit switch.
- Anemometer at boom tip.

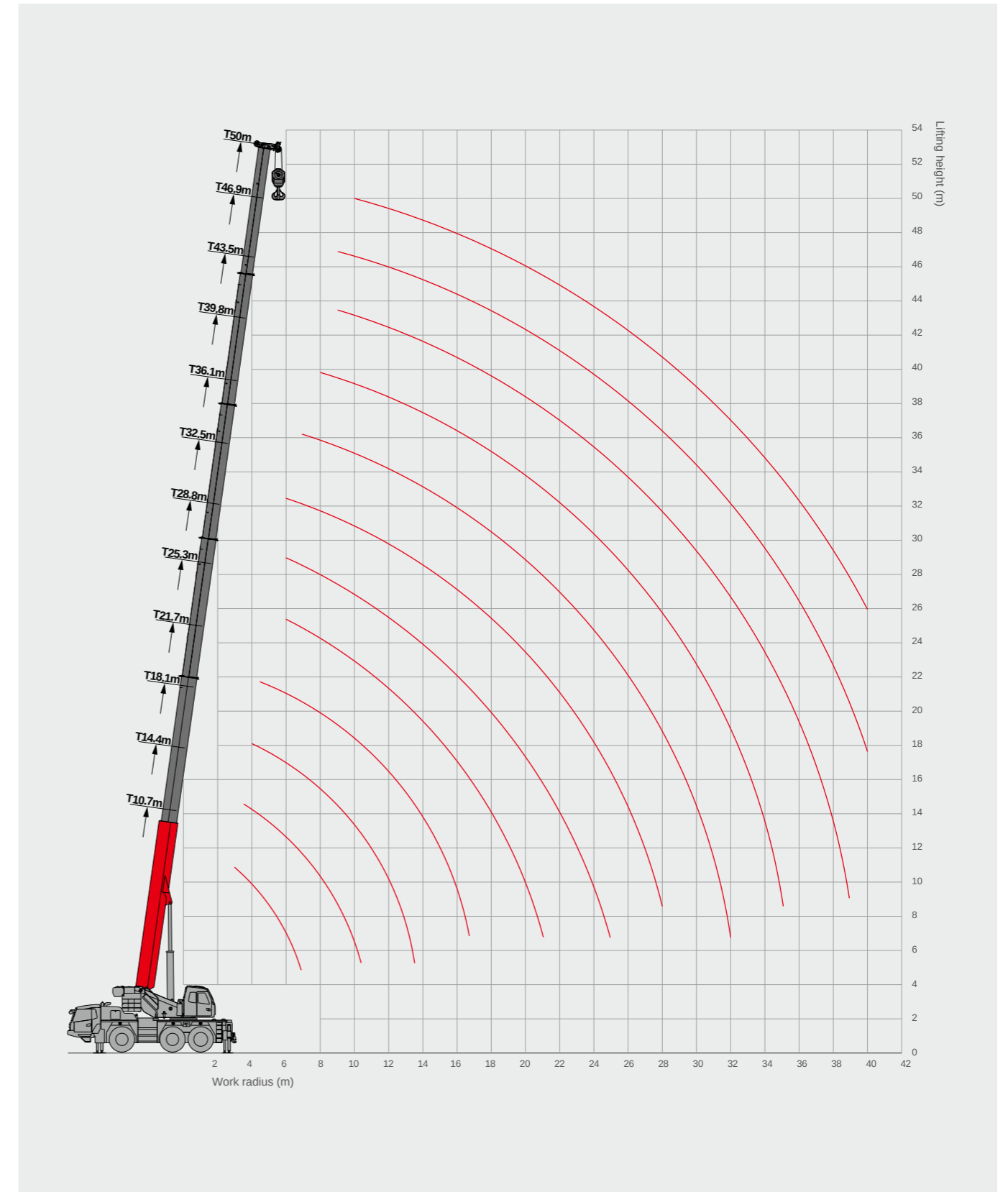
Counterweight

- Fixed unit 3.3t, removable units 9.7t.

Optional equipment at extra fees

- 63t and 50t capacity hook blocks
- Auxiliary winch
- 6x6 drive mode
- Tires size 445 and 525
- Hydraulically adjustable swing-away jib
- Customized painting
- Other equipment available upon request.

Operating Range



Load Chart - Jib



Unit: t

Radius (m)	Boom length																		Radius (m)	
	10.3			36.1			39.8			43.5			46.9			50				
	jib offset angle(°)																			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
3	7.9																			3
3.5	7.7	6.7																		3.5
4	7.4	6.7																		4
4.5	7.1	6.7																		4.5
5	6.8	6.7																		5
6	6.3	6.5	5.2	7.6																6
7	5.8	6.1	5.2	7.6			6.3													7
8	5.2	5.7	5.2	7.5			6.3			5.3										8
9	4.7	5.3	5.1	7.4	6.5		6.3			5.3										9
10	4.2	4.9	4.9	7.2	6.4		6.3	5.8		5.3										10
12	3.3	4	4.2	7	6.1	5.2	6.1	5.6	4.9	5.3	5		3.9	4		3.4				12
14	2.7	3.3	3.4	6.7	5.8	5.1	6	5.4	4.9	5.2	4.8	4.5	3.9	3.9		3.4	3.4			14
16	2	2.5	2.4	6.4	5.5	4.9	5.8	5.2	4.7	5	4.7	4.3	3.8	3.8	3.6	3.4	3.4	3.3		16
18				5.8	5.3	4.7	5.5	5	4.5	4.8	4.5	4.2	3.7	3.6	3.5	3.3	3.3	3.2		18
20				5.2	5	4.6	4.7	4.8	4.3	4.5	4.2	4.1	3.6	3.5	3.3	3.2	3.2	3.1		20
22				4.4	4.7	4.3	4.3	4.3	4.1	4	4	3.9	3.4	3.4	3.2	3.1	3	3		22
24				3.8	4	4	3.8	3.8	4	3.6	3.7	3.7	3.2	3.2	3.1	2.9	2.9	2.9		24
26				3.4	3.5	3.6	3.4	3.5	3.6	3.3	3.2	3.4	3	3.1	3	2.8	2.8	2.8		26
28				3.1	3.1	3.2	3	3.1	3.1	2.9	3	3	2.6	2.8	2.9	2.5	2.7	2.7		28
30				2.8	2.8	2.9	2.6	2.8	2.8	2.5	2.7	2.8	2.2	2.4	2.6	2.2	2.4	2.5		30
32				2.5	2.6	2.7	2.3	2.4	2.5	2.1	2.3	2.4	1.9	2.1	2.2	1.8	2	2.2		32
34				2.2	2.3		2	2.1	2.2	1.8	2	2.1	1.6	1.8	1.9	1.6	1.7	1.9		34
36				1.9	2		1.7	1.8		1.5	1.7	1.8	1.3	1.5	1.6	1.3	1.5	1.6		36
38				1.7	1.7		1.4	1.5		1.3	1.4		1.1	1.2	1.3	1.1	1.2	1.3		38
40				1.4			1.2	1.3		1.1	1.2		0.9	1	1.1	0.9	1	1.1		40
42							1.1	1.1		0.9	1			0.8			0.8	0.8		42
44							0.9			0.7	0.8									44

Load Chart - Jib



Unit: t

Radius (m)	Boom length																		Radius (m)	
	10.3			36.1			39.8			43.5			46.9			50				
	jib offset angle(°)																			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°		
3	4.1																			3
3.5	4.1																			3.5
4	4																			4
4.5	4																			4.5
5	3.9																			5
6	3.7																			6
7	3.6	3.9					3.9													7
8	3.4	3.7					3.9						3.5			3				8
9	3.2	3.5					3.8						3.4			3		2.6		9
10	3.1	3.4					3.8						3.4			3		2.6		10
12	2.8	3.1	2.4	3.7	3.1		3.3						3			3		2.6		12
14	2.6	2.8	2.3	3.5	3		3.2	2.8					2.9	2.7		2.9	2.7	2.6		14
16	2.3	2.6	2.3	3.4	2.9	2.4	3.2	2.8					2.9	2.6		2.9	2.6	2.5	2.4	16
18	2	2.5	2.2	3.3	2.8	2.4	3.1	2.7	2.3	2.8	2.5		2.5	2.3		2.5	2.3	2.1	2.2	18
20	1.7	2.1	2.1	3.2	2.7	2.3	3	2.6	2.3	2.7	2.5	2.2	2.5	2.3	2.1	2.2	2.2	2.2		20
22	1.4	1.7	2	3	2.6	2.3	2.9	2.5	2.2	2.7	2.4	2.2	2.4	2.2	2.1	2.2	2.1	2.2	2	22
24				2.9	2.5	2.2	2.8	2.4	2.2	2.6	2.3	2.2	2.4	2.2	2.1	2.1	2.1	2.1	2	24
26				2.8	2.4	2.2	2.7	2.4	2.2	2.5	2.3	2.1	2.3	2.2	2.1	2.1	2.1	2.1	2	26
28				2.6	2.4	2.2	2.6	2.3	2.1	2.5	2.2	2.1	2.3	2.1	2.1	2.1	2.1	2	2	28
30				2.5	2.3	2.2	2.4	2.3	2.1	2.3	2.2	2.1	2.3	2.2	2.1	2.2	2.1	2	2	30
32				2.3	2.2	2.2	2.3	2.2	2.1	2.2	2.2	2.1	2.2	2.2	2.1	2	2.1	2	1.9	32
34				2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.9	2	2.1	1.7	2	2	1.6	34
36				2	2	2.1	1.8	1.9	2	1.7	1.9	1.9	1.4	1.7	1.9	1.3	1.6	1.8		36
38				1.8	1.9	1.9	1.6	1.8	1.9	1.4	1.6	1.8	1.2	1.4	1.6	1.1	1.4	1.6		38
40				1.5	1.7		1.4	1.5	1.6	1.2	1.4	1.5	1	1.2	1.4	0.9	1.2	1.3		40
42				1.4	1.5		1.2	1.3		1	1.2	1.3	0.8	1	1.1	0.7	1	1.14		42
44				1.2	1.3		1	1.1		0.8	0.9			0.8	0.9		0.8	0.9		44
46				1			0.8	0.9						0.8						46
48				0.9			0.7	0.8												48



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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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