SANY®

VERTU EQUIPMENT

SPECIFICATION

60t

50m

66.5m

SAC600E

SANY ALL TERRAIN CRANE

QUALITY CHANGES THE WORLD

crane.sanyglobal.com

V2.8

It is one of the core business units in SANY Group, specializing in the development and manufacturing of high-end wheel cranes, crawler cranes and tower cranes, including the complete range of wheel cranes from 8 to 2400t, crawler cranes from 25 to 4500t and tower cranes from 6 to 185t.

三一集团旗下核心事业部，从事高端轮式起重机、履带起重机、塔式起重机系列产品的研发制造。覆盖8-2400吨全吨位轮式起重机，25-4500吨全吨位履带起重机，6-185吨塔式起重机。

SANY CRANE

SAC600E

SANY ALL TERRAIN CRANE
60T LIFTING CAPACITY

SAC600E is an all-terrain crane with 60t lifting capacity, 6 boom sections totaling 50m, and features wireless remote control of motions, optional anti-electromagnetic interference module, and the brand-new iCab, with driving and operation comfort fully upgraded.

50m boom
Boom full extension 50m

50m主臂

主臂全伸50m

Wireless remote control
无线遥控

Anti-electromagnetic interference

An anti-electromagnetic interference module adopted, enabling well functioning under strong electric and magnetic conditions (excluding wireless operations)

All new iCab design

Ergonomic concept of safety and comfort

i-Cab - Driver's cab

Multi-function seat with air suspension, making driving more comfortable.
Double seats and foldable berth for the co-driver.
10.1-inch touch screen integrated with back-up image and multi-media.
Electric rearview mirror with electric heating, ensuring good field of view in foul weather.
Adjustable high-brightness LED headlamps/fog lamps, providing clear vision at night.
Full-automatic HVAC, able to automatically adjust indoor temperature as demanded.

i-Cab - Operator's cab

Seat widened by 480mm, and leg room increased by 30%.
Cab tiltable by 0~20°, relieving cervical fatigue during large-angle and long-boom operations.
Adjustable seat with maximum inclination of 140°, allowing the operator to lie flat and rest after work
Electric seat linked with armrest box, enabling multi-dimensional adjustment for enhanced comfort.
Electronic control joysticks, making operation easier.
45° tilted silicone button panel, easy to reach and operate.
70° openable front window convenient for ventilation and escape; in compliance with CE standards.
Sliding door, more convenient for getting on/off the cab and opening/closing the door.
Full-automatic HVAC, able to automatically adjust indoor temperature as demanded.

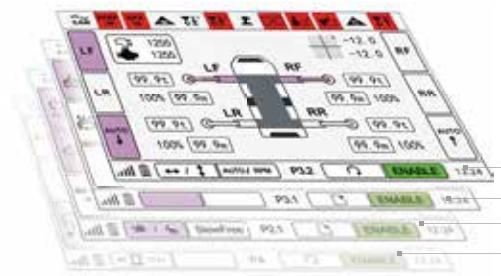
Anti-electromagnetic Interference (Optional)

Anti-electromagnetic interference module, allowing the crane to work normally in strong electric field or strong magnetic field (≤20v/m and >500m away from interference source), including cluster construction of high-power equipment, and the vicinity of multiple interference sources including high-voltage lines, broadcasting base stations, power plants, aluminum plants, radar stations, military bases or mobile communication stations.

配备抗电磁干扰模块，实现在磁场强度不大于 20v/m、距干扰源 500 米范围外的强电场、强磁场，如大功率设备集群化施工，紧邻高压线、广播基站、电厂、铝厂、雷达基站、军事基地或移动设备等通信基站附近多个干扰源的环境中正常工作。

Wireless Remote Control System

Main functions
Outrigger control - single-piece / single-side outrigger beam and jack telescoping in/out, and one-button leveling;
Crane operation - boom telescoping, luffing, slewing, hoisting;
Auxiliary action control - counterweight lifting/lowering, jib pushing/pulling, side step extension/retraction, cab tilting, etc.



- Outrigger status 支腿界面
- Counterweight lifting/lowering, step extension/retraction 配重起落、踏板伸缩
- Main parameters 主参数展示界面
- Boom telescoping 起重臂伸缩界面

Working Condition

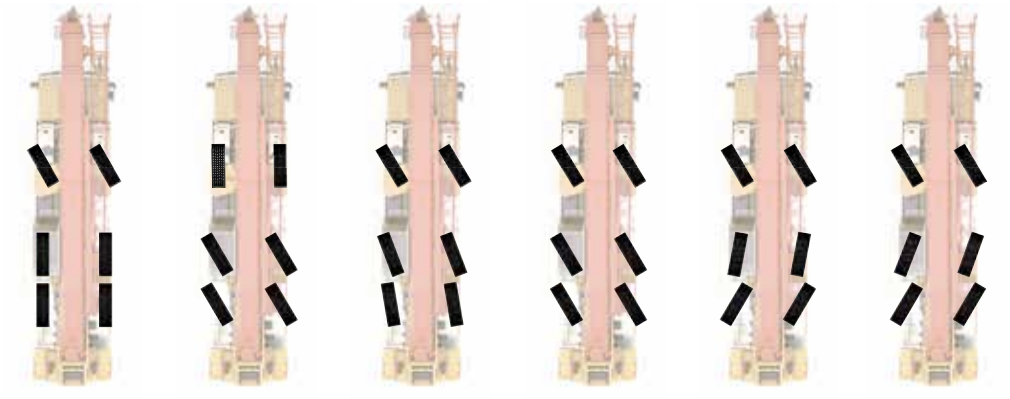
T: Boom 主臂	
Max. lifting capacity 最大起重量	60t
Max. boom length 最大臂长	50m
Max. radius 最大幅度	39m
Max. height 最大高度	50.5m

TA: Boom + auxiliary jib (optional) 主臂 + 鹅头臂（选配）	
Max. lifting capacity 最大起重量	9.1t
Max. boom + jib length 最大臂长	53m
Max. radius 最大幅度	40m
Max. height 最大高度	53.5m

TH: Boom + hydraulically adjustable jib (optional) 主臂 + 液压变幅副臂（选配）	
Max. lifting capacity 最大起重量	7.9t
Max. boom + jib length 最大臂长	66m
Max. radius 最大幅度	44m
Max. height 最大高度	66.5m

TJ: Boom + fixed jib (optional) 主臂 + 机械变幅副臂工况（选配）	
Max. lifting capacity 最大起重量	7.9t
Max. boom + jib length 最大臂长	66m
Max. radius 最大幅度	44m
Max. height 最大高度	66.5m

Travel Flexibility



Independent front axle steering
Independent rear axle steering
Reduced swing-out steering
Crab steering
On-road driving
All-wheel steering

ME steering system: four modes available marked by asterisk * , standard on E5 version
Sany steering system: six modes available, standard on E3A version.

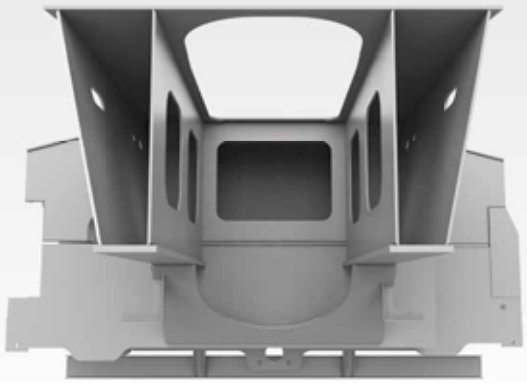
Traveling with counterweight and hook block on board
带载行驶能力

13t

4.2t

Carrier Frame

High strength frame
Carrier frame welded with fine grain high-strength steel plates of box-type section, providing a stronger anti-torsion capability than C-type or H-type construction.
Stable support
H-type outriggers of 4-point support, which is of same material and design as frame, and helps improve the stability of operation.



Power Train

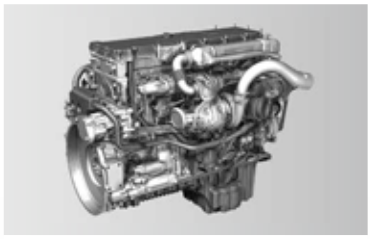
Engine
Mercedes-Benz OM470LA off-road in-line six cylinder water-cooled diesel engine, complying with Stage III or Stage V emission standards.
Rated power: 280kW/1700rpm (E3A) / 280kW/1600rpm (E5).
Max. torque: 1900Nm/1300rpm .
Fuel reservoir capacity: 400L.

Transmission
Allison 4500SP 6-speed AT with three-phase torque converter and planetary gear, allowing for smooth start and smooth gearshift.

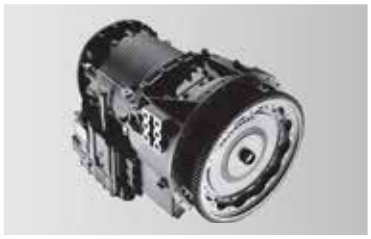
Braking system
Braking system consisting of disc brake, air chamber and ABS, making the braking performance more reliable and efficient. Optional eddy current retarder, allowing for effective assist braking, reducing the wear of axle brake linings and prolonging service life. Parking brake and service brake equipped for axles 1, 2, 3.

Axles and suspension
Kessler axles with high bearing capacity and reliable quality. Hydro pneumatic suspension system with stroke of ±100mm.
Standard 6 × 4 drive mode, with axles 2, 3 driven.
Optional 6 × 6 drive mode, with axles 1, 2, 3 driven.

Steering system
Dual-circuit power steering gear, and dual-circuit power steering system, with all axles steered.

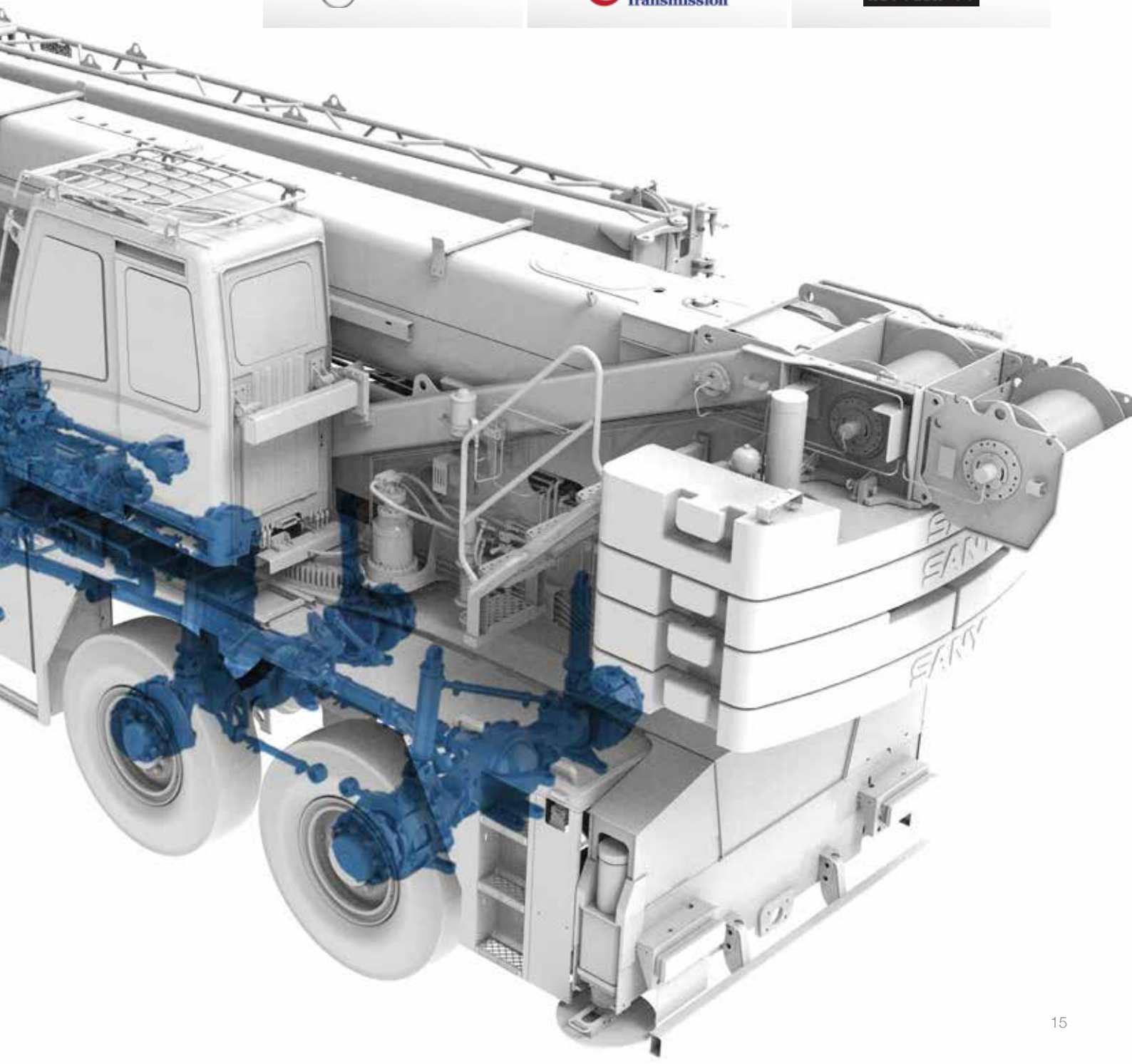


Mercedes-Benz



Allison Transmission

KESSLER-CO



Electrical System

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

Smart fault diagnosis system
The chassis adopts safety controller functioning smart monitoring, BCM power distribution management and integrated with fault diagnosis system.

AEC-approved console screen
Integrating functions including suspension control, steering control, outrigger control and data calibration.

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 monitoring system
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.

Anti-two-block switch
高度限位器

Third wrap indicator
三圈保护器

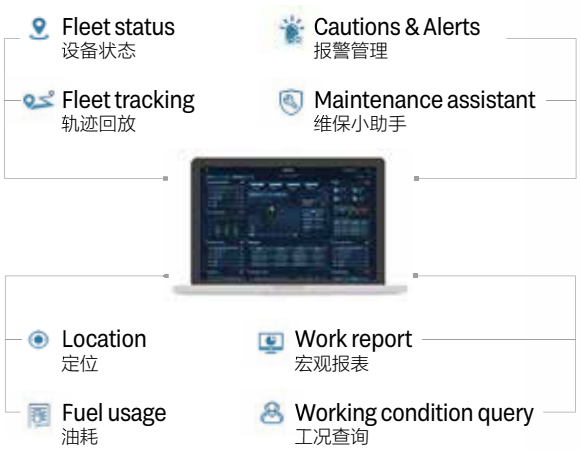
Cable reel
电缆卷筒

Cable reel inside the boom
臂内卷筒

Anemometer
风速仪

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.

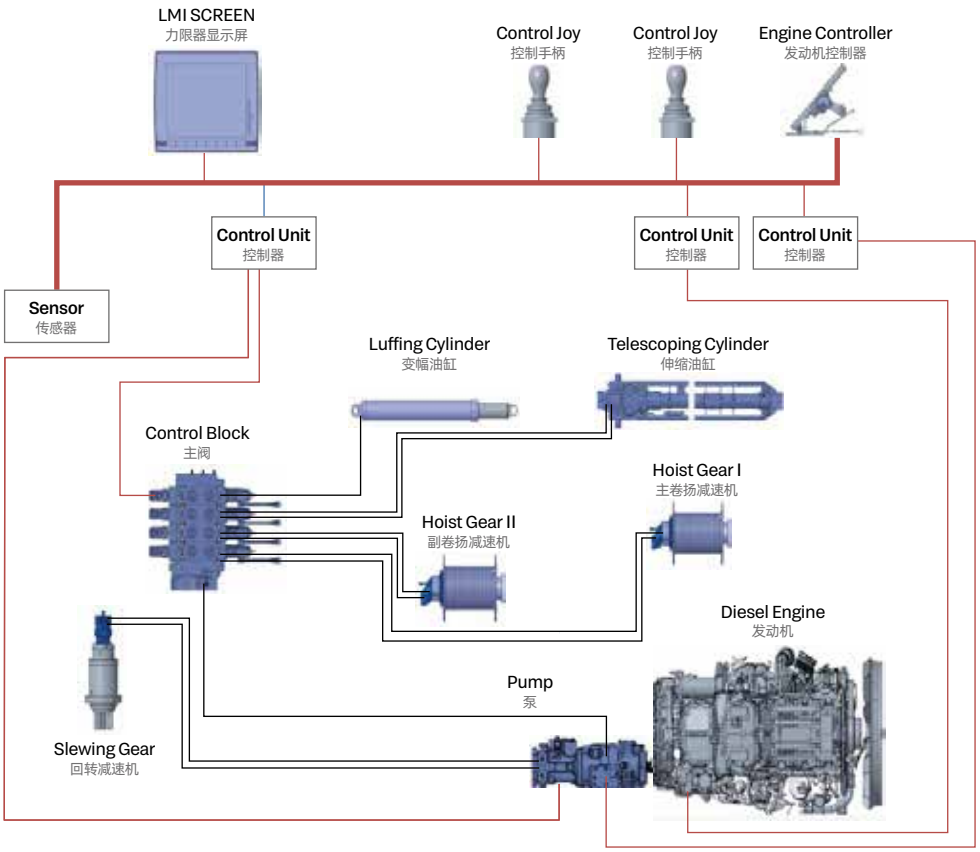


Hydraulic System

Single cylinder pin
6 boom sections of variable length combinations, automatic telescoping, time saving and labor saving.

Superstructure

Open-type electronically controlled load-sensing system and closed-type slewing system, enabling combined operation of four actions at the same time.
Electro proportional compensated passive luffing-down system applied to control the luffing speed, making luffing more reliable and stable.
Closed-type slewing system, ensuring no pressure loss and no overflowing noise upon start/stop, and making the operation quieter and more energy-saving.
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 ≤ 1m/min.



Chassis

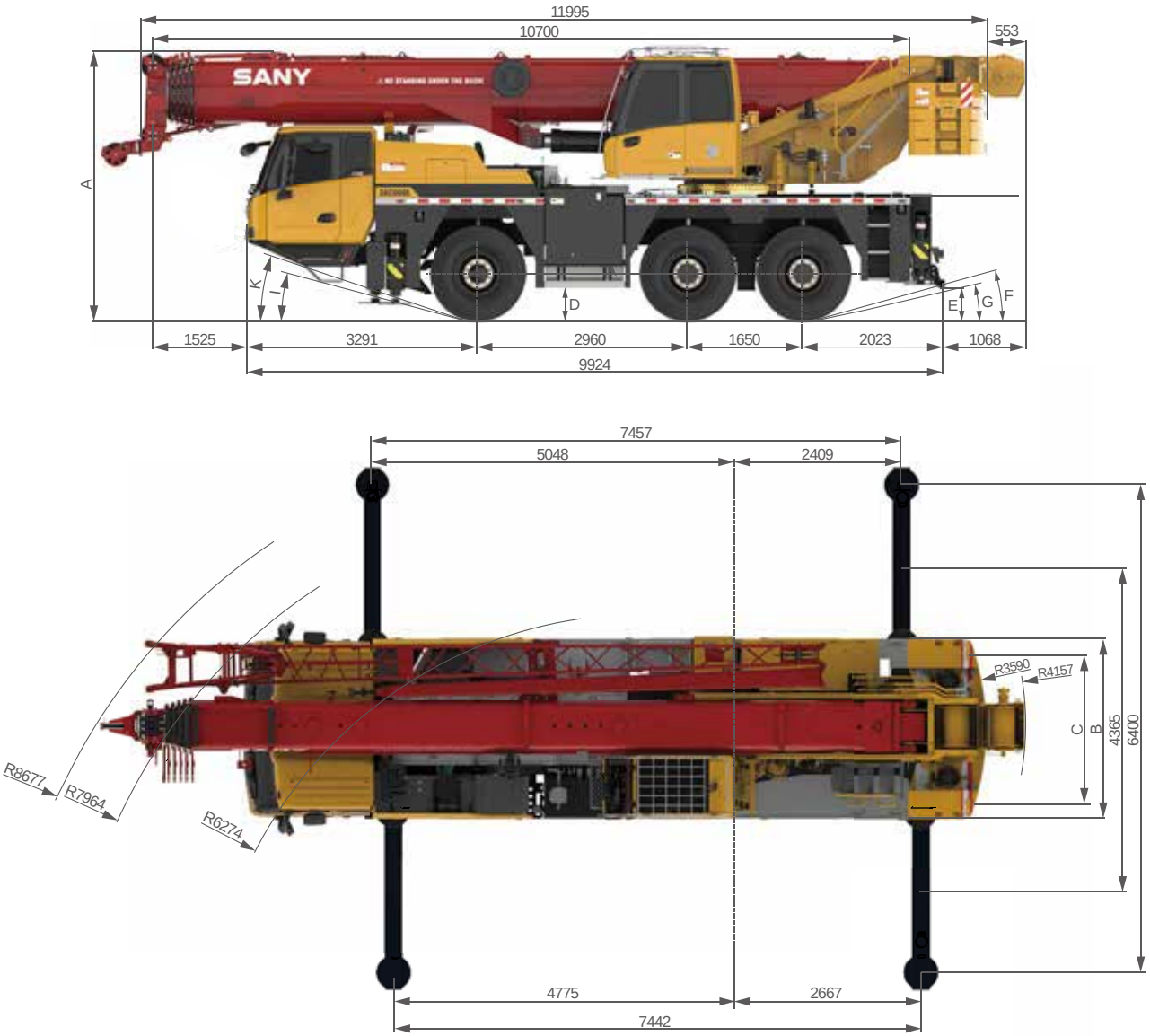
Dual circuit + emergency main steering system
Main steering system: Dual oil pump directly connected to the engine to supply oil independently to the steering gear, ensuring efficient and reliable steering.
Emergency steering system: A bidirectional piston pump installed on the transfer case, ensuring steering assistance throughout the traveling.

Electro-hydraulic assisted steering system
A load-sensing piston pump installed to supply oil for assisted steering, which is directly connected to the engine and always in the standby mode, so that the assisted steering system can respond quickly once the assisted steering command is received.

Suspension system
A piston pump adopted as the power source of suspension system, and suspension modes electrically controlled to realize normal driving and driving with CW on board with suspension locked.

Outrigger telescoping system
Full-electric control of outrigger, auto leveling available.

Overall Dimensions



Tire size 轮胎尺寸	A	A*	B	C	D	E	F	G	I	K
Unit 单位	mm	mm	mm	mm	mm	mm	°	°	°	°
385/95R25	3877	3777	2550	2170	436	374	18	12	13	15
445/95R25	3927	3827	2550	2100	486	424	20	14	15	18

Remark: A column is calculated when suspension is at middle level. A* column is calculated when suspension is at lowest level.
备注：A 列为悬挂处于中位，A* 列为悬挂处于最低位。

Technical Specification

CATEGORY 类型	ITEM 项目		UNIT 单位	VALUE 参数
POWER 发动机参数	Engine model (Emission standard) 发动机型号及排放		-	OM470.E3A-3 (Stage Ⅲ) OM470LA.E5-4 (Stage Ⅴ)
	Max. engine power 发动机最大功率		kW/rpm	280/1700 (Stage Ⅲ) 280/1600 (Stage Ⅴ)
	Max. engine torque 发动机最大输出扭矩		N·m/rpm	1900/1300
TRAVEL 行驶参数	Max.travel speed 最高行驶速度		km/h	80
	Steering radius 转弯半径	Min.steering radius 最小转弯半径	m	6.5
		Min.steering radius of boom tip 臂头最小转弯半径	m	10
	Wheel formula 车轮模式		-	6×4×6
	Min.ground clearance 最小离地间隙		mm	320 (#385 tires)
	Max.gradeability 最大爬坡度		-	60%
MAIN PERFORMANCE 主要性能参数	Working temperature range 使用温度区间		℃	-20~45
	Min.rated lifting radius 最小额定幅度		m	3
	Tail slewing radius 转台尾部回转半径		m	3.59
	Boom sections (Qty.) 臂节数		-	6
	Boom shape 臂形状		-	U shape U 型
	Max.lifting moment 最大起重力矩	Basic boom 基本臂	kN·m	1861
		Full-extension boom 全伸主臂	kN·m	966
		Full-extension boom+jib 全伸主臂 + 副臂	kN·m	713
	Boom length 臂长	Basic boom 基本臂	m	10.7
		Full-extension boom 全伸主臂	m	50
		Full-extension boom+jib 全伸主臂 + 副臂	m	66
	Max.lifting height 最大起重高度	Basic boom 基本臂	m	11
		Full-extension boom 全伸主臂	m	50.5
		Full-extension boom+jib 全伸主臂 + 副臂	m	66.5
	Outrigger span (Longitudinal × Transverse) 支腿跨距（纵 × 横）		m	7.45×6.4
	Jib offset 副臂安装角度		°	0, 20, 40
AIRCONDITIONER 空调	In operator's cab 上车空调		-	Heating & Cooling 制冷、制热
	In driver's cab 下车空调		-	Heating & Cooling 制冷、制热

Technical Specification

Axle Load 轴荷

Axle load 轴荷	Total weight 总重	Drive 传动模式	Tire 轮胎	Fixed CW 固定配重 (t)	Jib bracket 副臂托架	Attachment 携带附件
<12t	≤36t	6×6	385/95R25 alu	4.2	/	6.3t hook placed at frame tail bucket 6.3t钩(放置在车尾副钩固定桶中)
<12t	≤36t	6×4	445/95R25 alu	4.2	/	/
<12t	≤36t	6×4	385/95R25	4.2	/	6.3t hook placed at frame tail bucket 6.3t钩(放置在车尾副钩固定桶中)
≤16t	<47t	6×6	445/95R25	13	/	32t hook attached in front of driver's cab, auxiliary winch, rear tool box and attachments 350kg 32t吊钩放置于驾驶室前方，副卷扬，后工具箱及附件350kg

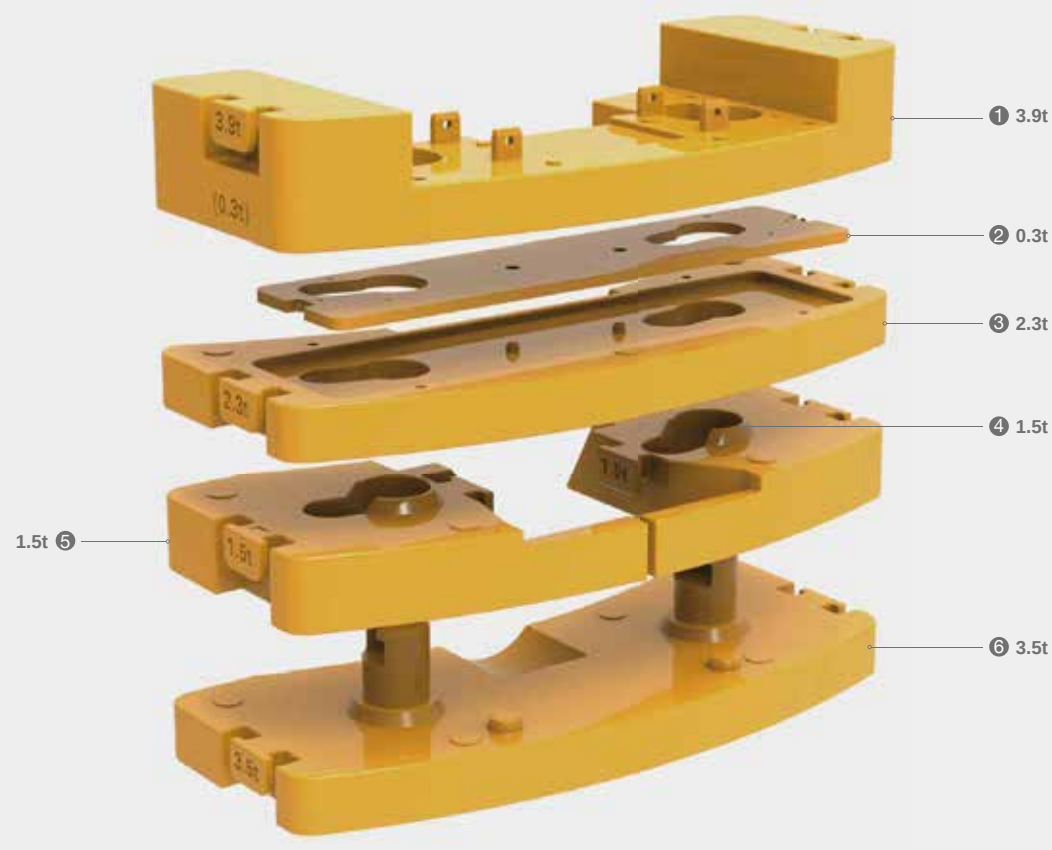
Operations 主要动作参数

Item 项目		Single rope speed 单绳速度	Rope diameter/length 钢丝绳直径 / 长度	Max. single line pull 最大单绳拉力
Main winch 主卷扬		130m/min	15mm/220m	47.7kN
Auxiliary winch 副卷扬		130m/min	15mm/220m	47.7kN
Slewing 回转		1.6r/min		
Luffing 起落幅		60s/90s		
Telescoping 伸缩		350s		
Outrigger jack 垂直支腿	Retract 收	40s		
	Extend 放	50s		
Outrigger beam 水平支腿	Retract 收	40s		
	Extend 放	50s		

Hook 吊钩

Type 型号	Load 起重量	Number of sheaves 滑轮数量	Rope rate 倍率	Hook weight 吊钩重量 /kg
63t	60t	7	14	463
50t	48.9t	5	11	406
32t	32t	3	7	323
16t	14.2t	1	3	215
6.3t	4.8t	-	1	108

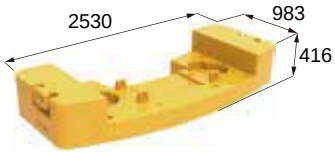
Counterweight Combinations



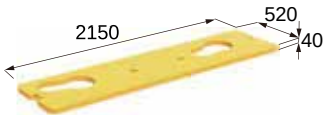
Total weight 总重量	①	②	③	④	⑤	⑥
	3.9t	0.3t	2.3t	1.5t	1.5t	3.5t
3.9t	●					
4.2t	●	●				
6.5t	●	●	●			
10t	●	●	●			●
13t	●	●	●	●	●	●

Transport Dimensions

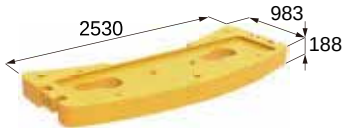
Unit:mm



3.9t

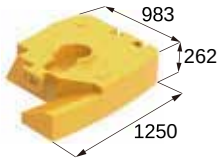


0.3t

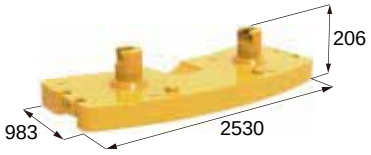


2.3t

1.5t



1.5t



3.5t

32t hook block

16t hook block

6.3t hook block

Crane Introduction

Carrier frame 车架

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

Engine 发动机

- BENZ OM470LA in-line six-cylinder diesel engine with watercooler and inter cooler, complying with EU Stage III / EU Stage V emission standard.
- Fuel reservoir capacity: 400L.

/

Transmission 变速箱

- Allison auto-transmission, 6 forward gears and 1 reverse gears, large speed ratio range, high torque output.
- Allison 自动变速箱，6 个前进档、1 个后退挡，速比范围大，输出扭矩高。

Axle 车桥

- 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 electro-hydraulically. Easier and better maneuverability.

Suspension 悬挂

- Hydro-pneumatic suspension with hydraulic lock, range ±100mm in height. Smooth driving, anti-tipping.

Tire 轮胎

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

Braking 制动系统

- All-wheel air brakes. Dual circuit disc service brake, optional eddy-current retarder available for prolonged life of brakes.

Outrigger 支腿

- H-type layout, with hydraulic cylinder, auto-levelling.
- H 形支腿，全液压伸缩，具备自动调平功能。

Control system 控制系统

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

Crane Introduction

Operator's cab 操纵室

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

Boom system 臂架系统

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

Slewing 回转机构

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

Hydraulics 液压系统

- DANFOSS PVG 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 起升机构

- Main and auxiliary winch wire ropes are 15mm in diameter and 220m in length.

Luffing 变幅机构

- Passive luffing down with dynamic compensation. Boom angle: -2°~ 82°.

Safety equipment 安全装置

- Self-developed LMI.
- Hydraulic balance valve, relief valve.
- Third wrap indicator, A2B switch.
- Anemometer at boom tip.

Counterweight 配重

- 13t counterweight.
- 13t 配重。

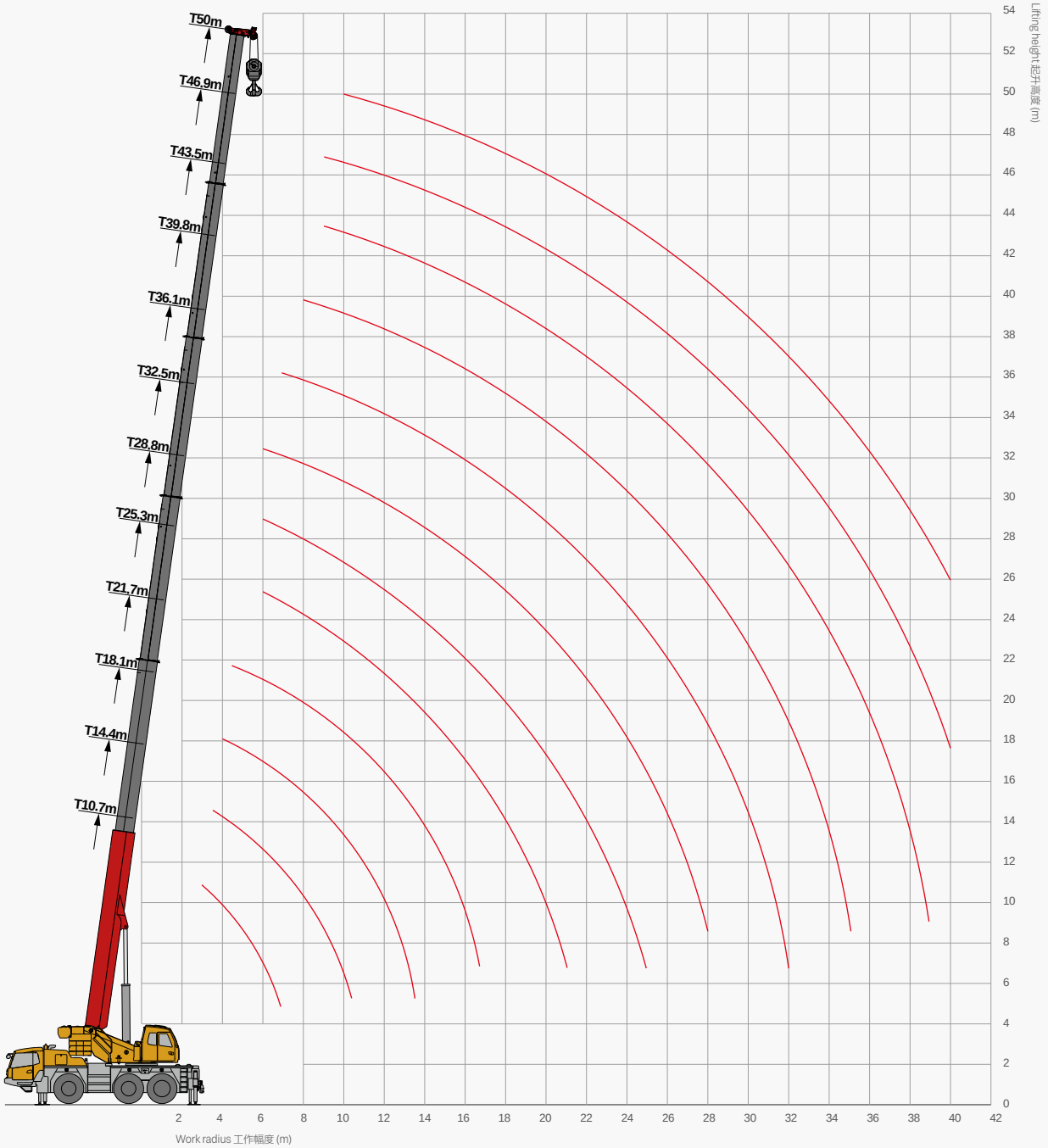
Optional equipment at extra fees 选配

- 63t / 50t / 32t capacity hook blocks.
- Auxiliary winch.
- Auxiliary jib.
- 6 × 6 drive mode.
- Tires size 445/95R25 (6 × 4 drive).
- Fixed jib / Hydraulically adjustable jib.
- Customized painting.
- Other equipment available upon request.
- 63t，50t，32t 吊钩。

Working Conditions & Code Description

- T - Telescopic boom 主臂
- J - Fixed jib 固定副臂
- H - Hydraulically adjustable jib 液压变幅副臂
- A - Auxiliary jib 鹅头臂

Operating Range - T



Load Chart-T

Unit: metric ton

m	10.7	14.4	18.1	21.7	25.3	28.8	32.5	36.1	39.8	43.5	46.9	50	m
3	60*												3
3.5	50	41.7											3.5
4	46	38.7	37.7										4
4.5	42.2	36.1	35.2	35									4.5
5	37	33.9	33	32.7									5
6	28.8	28.7	29.2	28.9	27.9	24.9	20.2						6
7	22.3	23	23.3	22.3	23.7	23.4	18.2	15.9					7
8		18.6	18.9	19.2	19.3	19	16.5	15.5	12.7				8
9		15.4	15.8	16.2	16.1	15.8	15	14.9	12.5	10.2	7.8		9
10		13.1	13.5	13.9	13.8	13.5	13.8	13.1	12.1	10	7.8	6.4	10
11		11	12	12	12	12.1	12	12.2	11.4	9.7	7.7	6.4	11
12			10.5	10.6	10.4	10.8	10.7	10.7	10	9.2	7.5	6.4	12
13			9.3	9.4	9.3	9.5	9.7	9.5	9.2	8.9	7.2	6.4	13
14			8.3	8.4	8.2	8.6	8.7	8.6	8.4	8	7	6.2	14
15				7.5	7.3	7.6	7.8	7.8	7.7	7.5	6.8	6.1	15
16				6.7	6.5	6.9	7	7	6.9	6.7	6.5	6	16
17				6	6.1	6.3	6.4	6.4	6.3	6	5.8	5.8	17
18				5.5	5.7	5.7	5.8	5.8	5.6	5.5	5.2	5.3	18
19					5.3	5.2	5.3	5.3	5.2	5	4.8	4.8	19
20					4.9	4.7	4.9	4.9	4.7	4.6	4.4	4.4	20
21					4.5	4.3	4.4	4.5	4.3	4.2	3.9	4	21
22						4	4.1	4.1	3.9	3.8	3.6	3.6	22
23						3.8	3.8	3.8	3.6	3.5	3.2	3.3	23
24						3.6	3.5	3.5	3.3	3.2	3	3	24
25						3.4	3.3	3.3	3.1	2.9	2.7	2.8	25
26							3	3	2.8	2.7	2.5	2.5	26
27							2.8	2.8	2.6	2.5	2.3	2.3	27
28							2.6	2.6	2.4	2.3	2.1	2.1	28
29								2.4	2.2	2.1	1.8	1.9	29
30								2.2	2.1	1.9	1.7	1.7	30
31								2.1	1.9	1.8	1.6	1.6	31
32								1.9	1.8	1.6	1.4	1.4	32
33									1.6	1.5	1.3	1.3	33
34									1.5	1.4	1.2	1.2	34
35									1.4	1.2	1	1	35
36										1.1	0.9	0.9	36
37										1	0.8	0.8	37
38										0.9	0.7	0.7	38
39										0.8			39
40													40

rating with * indicates load over rear with additional sheaves.
* 表示正后方，同时需要附加滑轮

Load Chart-T

Unit: metric ton

m	10.7	14.4	18.1	21.7	25.3	28.8	32.5	36.1	39.8	43.5	46.9	50	m
3	45												3
3.5	45	41.7											3.5
4	42.5	38.7	37.7										4
4.5	40.5	36.1	35	34									4.5
5	35	33.9	33	32									5
6	25.2	25.1	26.6	25.5	25.9	24	19.5						6
7	19.4	20.1	20.4	21	20.8	20.5	18.2	15.9					7
8		16.2	17	17.1	16.9	16.6	16.2	15.5	12.7				8
9		13.4	14.1	14.3	14.1	14.4	14.1	14	12.5	10.2	7.8		9
10		11.3	12	12.2	12	12.3	12.5	12.2	11.5	10	7.8	6.4	10
11		9.9	10.3	10.4	10.3	10.6	10.8	10.8	10.2	9.7	7.7	6.4	11
12			8.9	9	8.9	9.2	9.4	9.4	9.1	8.7	7.5	6.4	12
13			7.8	7.8	7.7	8.1	8.2	8.3	8.1	7.9	7.2	6.4	13
14			6.8	7	7.3	7.1	7.3	7.3	7.1	7	6.7	6.2	14
15				6.1	6.5	6.4	6.5	6.5	6.4	6.1	5.9	5.9	15
16				5.5	5.9	5.7	5.9	5.8	5.7	5.5	5.3	5.3	16
17				4.9	5.3	5.4	5.3	5.3	5.1	5	4.7	4.7	17
18				4.4	4.7	4.9	4.8	4.8	4.6	4.5	4.2	4.2	18
19					4.3	4.5	4.4	4.3	4.2	4	3.8	3.8	19
20					3.9	4.1	3.9	3.9	3.8	3.7	3.4	3.4	20
21					3.6	3.7	3.6	3.6	3.4	3.3	3	3.1	21
22						3.4	3.3	3.3	3.1	3	2.7	2.7	22
23						3.2	3.1	3	2.8	2.7	2.5	2.5	23
24						2.9	2.8	2.7	2.6	2.5	2.3	2.3	24
25						2.6	2.6	2.5	2.4	2.3	2	2.1	25
26							2.3	2.3	2.2	2	1.8	1.8	26
27							2.2	2.1	2	1.8	1.6	1.6	27
28							2	1.9	1.7	1.6	1.4	1.4	28
29								1.8	1.6	1.5	1.3	1.3	29
30								1.6	1.5	1.3	1.1	1.1	30
31								1.5	1.3	1.2	1	1	31
32								1.4	1.2	1.1	0.9	0.9	32
33									1.1	1	0.8	0.8	33
34									1	0.8	0.7	0.7	34
35									0.8	0.7			35

rating with * indicates load over rear with additional sheaves.
* 表示正后方，同时需要附加滑轮

Load Chart-T

Unit: metric ton

m	10.7	14.4	18.1	21.7	25.3	28.8	32.5	36.1	39.8	43.5	46.9	50	m
3	43												3
3.5	43	41.7											3.5
4	40.1	38.7	36.9										4
4.5	37.3	36	34.5	32.8									4.5
5	30.9	30.7	31.3	31									5
6	22.2	22.9	23.2	23.9	25.2	22.9	19.5						6
7	17	17.7	18.5	18.6	19.5	18.1	17.6	15.5					7
8		14.4	14.9	15	15.8	15.3	14.9	15	12.7				8
9		11.7	12.3	12.4	12.9	12.6	12.8	12.5	11.6	10.2	7.8		9
10		9.7	10.2	10.3	10.8	10.5	10.7	10.7	10.1	9.8	7.8	6.3	10
11		8.5	8.6	8.8	9.2	9	9.2	9.2	8.8	8.8	7.7	6.3	11
12			7.5	7.5	7.9	8.1	7.8	7.9	7.7	7.5	7.2	6.3	12
13			6.5	6.5	7	7.1	7	6.9	6.7	6.5	6.2	6.3	13
14			5.6	5.7	6.2	6.2	6.2	6.1	5.9	5.7	5.5	5.5	14
15				5	5.4	5.5	5.5	5.4	5.2	5.1	4.8	4.8	15
16				4.8	4.9	5	4.8	4.8	4.7	4.5	4.2	4.3	16
17				4.3	4.3	4.5	4.4	4.3	4.2	4	3.8	3.8	17
18				3.8	4	4	3.9	3.9	3.7	3.5	3.3	3.3	18
19					3.5	3.6	3.5	3.5	3.3	3.2	2.9	2.9	19
20					3.2	3.3	3.2	3.2	3	2.8	2.6	2.6	20
21					2.9	3	2.9	2.8	2.6	2.5	2.3	2.3	21
22						2.7	2.6	2.6	2.4	2.3	2	2.1	22
23						2.5	2.4	2.3	2.2	2	1.8	1.8	23
24						2.2	2.2	2.1	2	1.8	1.6	1.6	24
25						2.1	2	1.9	1.7	1.6	1.4	1.4	25
26							1.8	1.7	1.6	1.4	1.2	1.2	26
27							1.6	1.5	1.4	1.3	1.1	1	27
28							1.5	1.4	1.2	1.1	0.9	0.9	28
29								1.2	1.1	0.9	0.7	0.8	29
30								1.1	1	0.9		0.7	30
31								1	0.9	0.7			31
32								0.9	0.7				32

rating with * indicates load over rear with additional sheaves.
* 表示正后方，同时需要附加滑轮

Load Chart-T

Unit: metric ton

m	10.7	14.4	18.1	21.7	25.3	28.8	32.5	36.1	39.8	43.5	46.9	50	m
3	43												3
3.5	43	41.7											3.5
4	40.1	38.7	36.9										4
4.5	33	32.9	33.6	31.5									4.5
5	26.9	27.7	28.1	27.4									5
6	19.2	20	20.3	20.9	20.8	20.1	18.5						6
7	14.3	15.5	16.1	16.2	16	16.5	16.1	14.6					7
8		12	12.5	12.7	13.2	13	13.1	12.8	11.8				8
9		9.6	10.1	10.2	10.7	10.8	10.6	10.7	10.4	9.8	7.8		9
10		7.9	8.4	8.5	8.9	9.1	8.9	8.9	8.7	8.5	7.8	6.3	10
11		6.6	7	7.5	7.5	7.6	7.6	7.5	7.3	7.1	6.9	6.3	11
12			6	6.5	6.6	6.7	6.5	6.4	6.3	6.1	5.8	5.8	12
13			5.5	5.6	5.7	5.8	5.6	5.6	5.4	5.3	5	5	13
14			4.8	4.9	5	5.1	5	4.9	4.7	4.5	4.3	4.3	14
15				4.3	4.4	4.5	4.4	4.3	4.1	4	3.7	3.7	15
16				3.8	4	4	3.9	3.8	3.6	3.5	3.2	3.3	16
17				3.4	3.6	3.5	3.4	3.4	3.2	3	2.8	2.8	17
18				3	3.2	3.1	3	3	2.8	2.6	2.4	2.5	18
19					2.8	2.8	2.7	2.7	2.5	2.3	2.1	2.2	19
20					2.5	2.5	2.4	2.4	2.2	2.1	1.8	1.8	20
21					2.2	2.2	2.2	2.1	1.9	1.8	1.6	1.6	21
22						2	1.9	1.9	1.7	1.5	1.3	1.4	22
23						1.8	1.7	1.6	1.5	1.4	1.1	1.2	23
24						1.6	1.5	1.5	1.3	1.2	1	1	24
25						1.4	1.4	1.3	1.1	1	0.8	0.8	25
26							1.2	1.2	1	0.8	0.7	0.7	26
27							1	1	0.9	0.7			27
28							0.9	0.9	0.7				28
29								0.7					29

rating with * indicates load over rear with additional sheaves.
* 表示正后方，同时需要附加滑轮

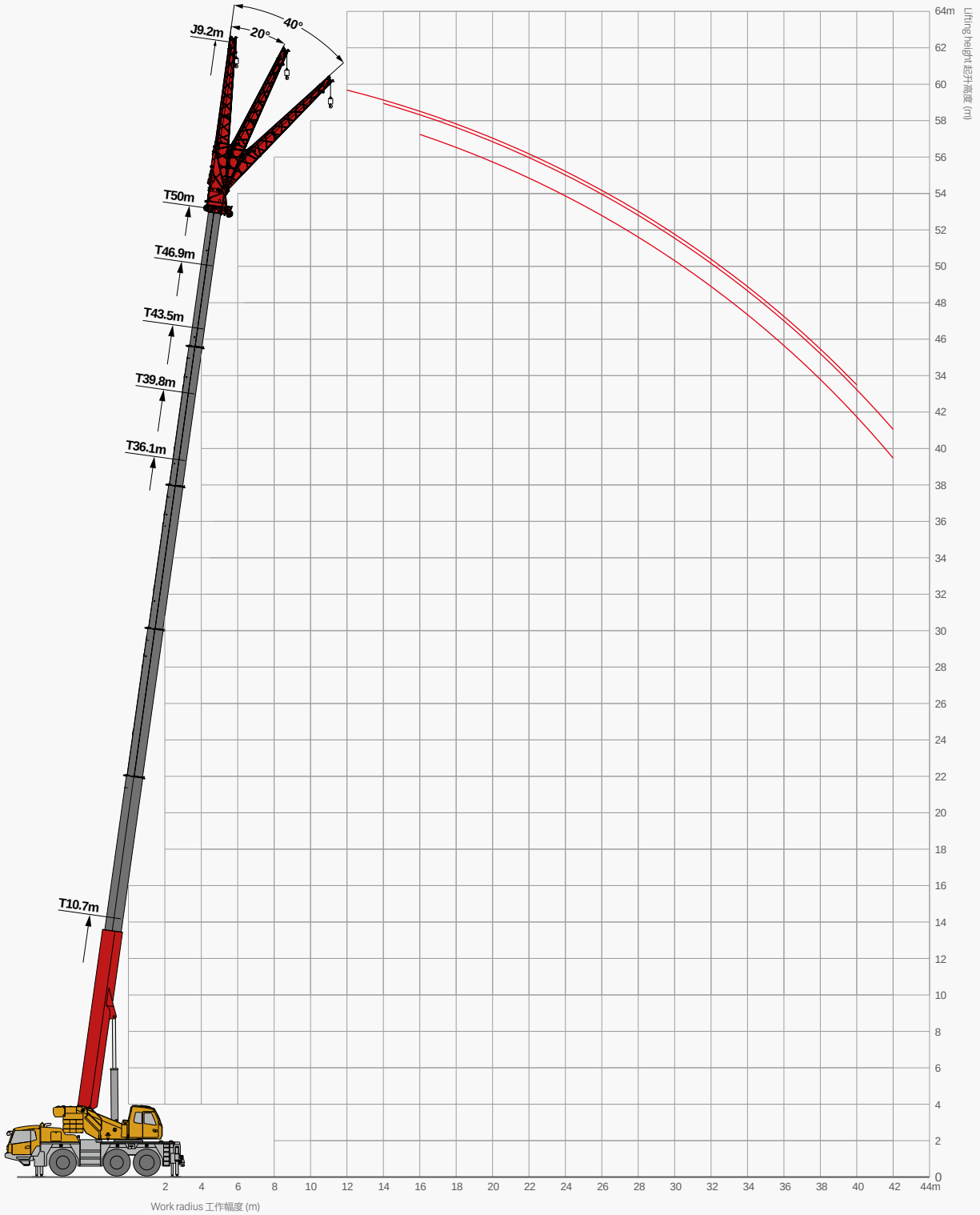
Load Chart-T

Unit: metric ton

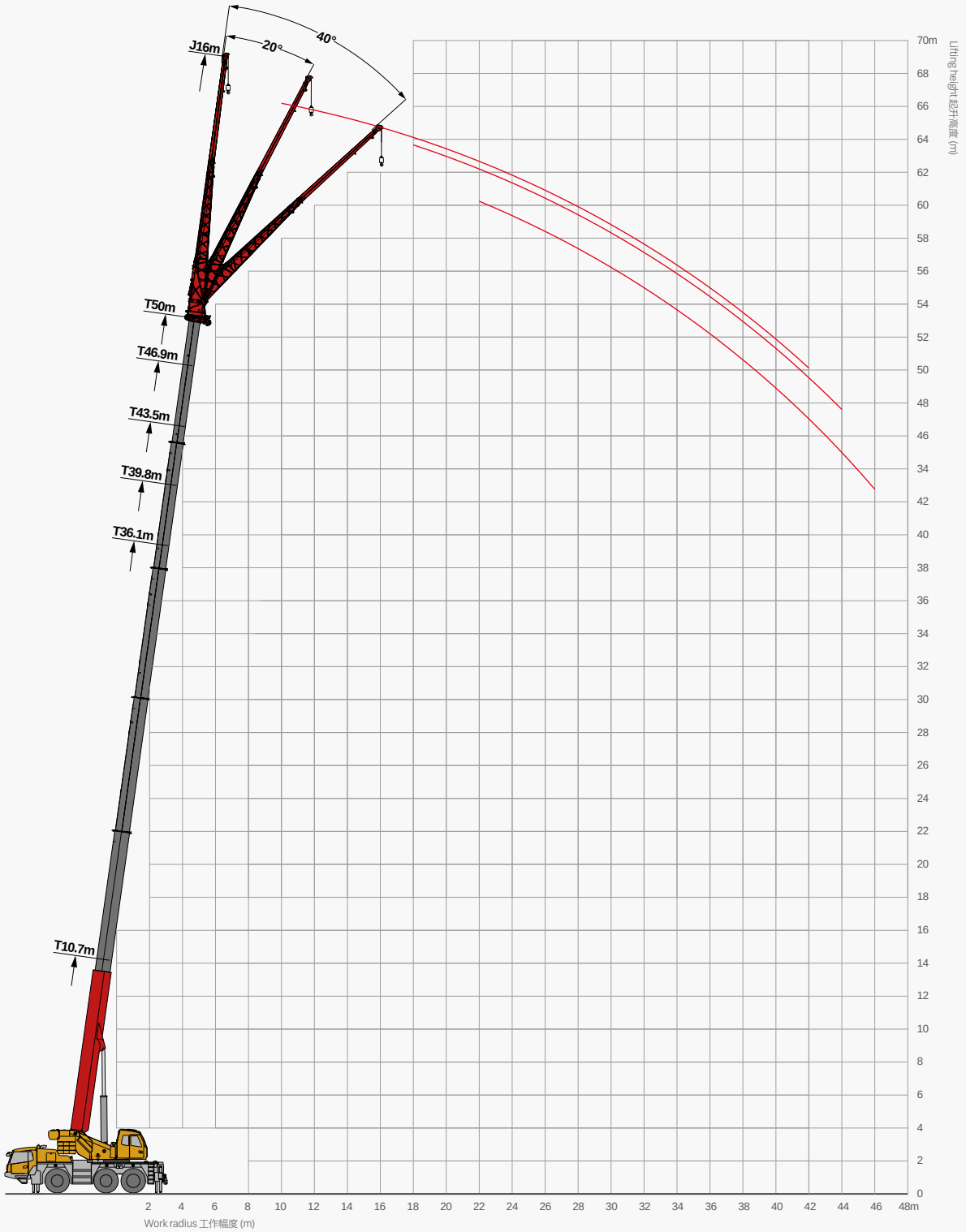
m	10.7	14.4	18.1	21.7	25.3	28.8	32.5	36.1	39.8	43.5	46.9	50	m
3	43												3
3.5	40	41.7											3.5
4	38.7	38.7	36.9										4
4.5	32.5	32.4	33	31									4.5
5	26.5	27.3	27.7	26.6									5
6	18.9	19.6	20	20.6	20.5	19.8	18.3						6
7	14	14.8	15.8	15.9	15.8	16.2	15.8	14.4					7
8		11.8	12.3	12.4	12.9	12.7	12.8	12.8	11.6				8
9		9.4	9.9	10	10.5	10.6	10.4	10.4	10.2	9.8	7.8		9
10		7.7	8.2	8.3	8.8	8.9	8.8	8.7	8.5	8.3	7.8	6.3	10
11		6.4	6.9	7.3	7.4	7.5	7.4	7.4	7.1	7	6.7	6.3	11
12			5.9	6.3	6.4	6.5	6.3	6.3	6.1	5.9	5.7	5.7	12
13			5	5.5	5.6	5.6	5.5	5.5	5.3	5.1	4.9	4.9	13
14			4.4	4.8	4.9	4.9	4.8	4.8	4.6	4.4	4.2	4.2	14
15				4.2	4.2	4.3	4.2	4.2	4	3.9	3.6	3.7	15
16				3.7	3.8	3.8	3.7	3.7	3.5	3.3	3.1	3.1	16
17				3.2	3.4	3.4	3.4	3.3	3.1	2.9	2.7	2.7	17
18				2.9	3	3	2.9	2.9	2.7	2.6	2.4	2.4	18
19					2.7	2.7	2.7	2.5	2.4	2.3	2	2	19
20					2.4	2.4	2.3	2.3	2.1	2	1.8	1.7	20
21					2.1	2.2	2.1	2	1.9	1.7	1.5	1.5	21
22						1.9	1.9	1.8	1.6	1.5	1.3	1.3	22
23						1.8	1.6	1.6	1.4	1.3	1.1	1.1	23
24						1.5	1.5	1.4	1.3	1.1	0.9	0.9	24
25						1.4	1.3	1.2	1.1	0.9	0.7	0.8	25
26							1.2	1.1	0.9	0.8			26
27							1	1	0.8	0.7			27
28							0.9	0.8	0.7				28
29								0.7					29

rating with * indicates load over rear with additional sheaves.
* 表示正后方，同时需要附加滑轮

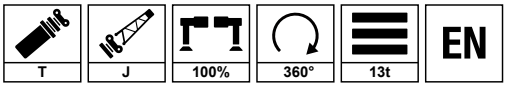
Operating Range - TF



Operating Range - TJ



Load Chart - TJ

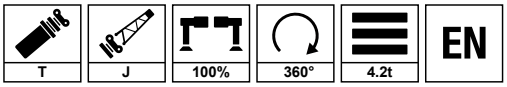


Unit: metric ton

m	43.5			46.9			50			m
	9.2			9.2			9.2			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	
8	5.3									8
9	5.3									9
10	5.3									10
12	5.3	5		3.9	4		3.4			12
14	5.2	4.8	4.5	3.9	3.9		3.4	3.4		14
16	5	4.7	4.3	3.8	3.8	3.6	3.4	3.4	3.3	16
18	4.8	4.5	4.2	3.7	3.6	3.5	3.3	3.3	3.2	18
20	4.5	4.2	4.1	3.6	3.5	3.3	3.2	3.2	3.1	20
22	3.9	4	3.9	3.4	3.4	3.2	3.1	3	3	22
24	3.3	3.6	3.7	3.1	3.2	3.1	2.9	2.9	2.9	24
26	2.8	3.1	3.2	2.6	2.8	3	2.6	2.8	2.8	26
28	2.4	2.6	2.8	2.2	2.4	2.6	2.2	2.4	2.6	28
30	2.1	2.3	2.4	1.8	2	2.2	1.8	1.9	2.2	30
32	1.7	1.9	1.9	1.5	1.7	1.8	1.5	1.7	1.8	32
34	1.4	1.6	1.7	1.2	1.4	1.5	1.2	1.4	1.5	34
36	1.2	1.3	1.4	1	1.1	1.3	1	1.1	1.3	36
38	1	1.2		0.8	1	1	0.8	0.9	1	38
40	0.8	0.9			0.7	0.8		0.7	0.8	40
42	0.7	0.8								42
44										44
46										46

m	39.8			43.5			46.9			50			m
	16			16			16			16			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
8	3.5			3									8
9	3.4			3			2.6						9
10	3.4			3			2.6			2.3			10
12	3.3			3			2.6			2.3			12
14	3.2	2.8		2.9	2.7		2.6			2.3			14
16	3.2	2.8		2.9	2.6		2.5	2.4		2.2			16
18	3.1	2.7	2.3	2.8	2.5		2.5	2.3		2.2	2.2		18
20	3	2.6	2.3	2.7	2.5	2.2	2.5	2.3	2.1	2.2	2.2		20
22	2.9	2.5	2.2	2.7	2.4	2.2	2.4	2.2	2.1	2.2	2.1	2	22
24	2.8	2.4	2.2	2.6	2.3	2.2	2.4	2.2	2.1	2.1	2.1	2	24
26	2.6	2.4	2.2	2.5	2.3	2.1	2.3	2.2	2.1	2.1	2.1	2	26
28	2.2	2.3	2.1	2.5	2.2	2.1	2.3	2.1	2.1	2.1	2	2	28
30	1.8	2.2	2.1	2.2	2.2	2.1	2	2.1	2	1.9	2	2	30
32	1.5	1.8	2.1	1.8	2.2	2.1	1.6	2	2	1.6	1.9	1.9	32
34	1.3	1.6	1.7	1.6	1.8	2.1	1.4	1.7	1.9	1.4	1.6	1.9	34
36	1	1.3	1.5	1.3	1.6	1.7	1.1	1.4	1.6	1.1	1.4	1.6	36
38	0.8	1	1.2	1.2	1.4	1.5	1	1.2	1.4	0.9	1.2	1.4	38
40		0.8	1	1	1.1	1.3	0.7	1	1.1	0.7	1	1.1	40
42		0.7		0.8	0.9	1.1		0.8	0.9		0.8	0.9	42
44					0.8	0.9			0.7			0.7	44
46						0.7							46

Load Chart - TJ

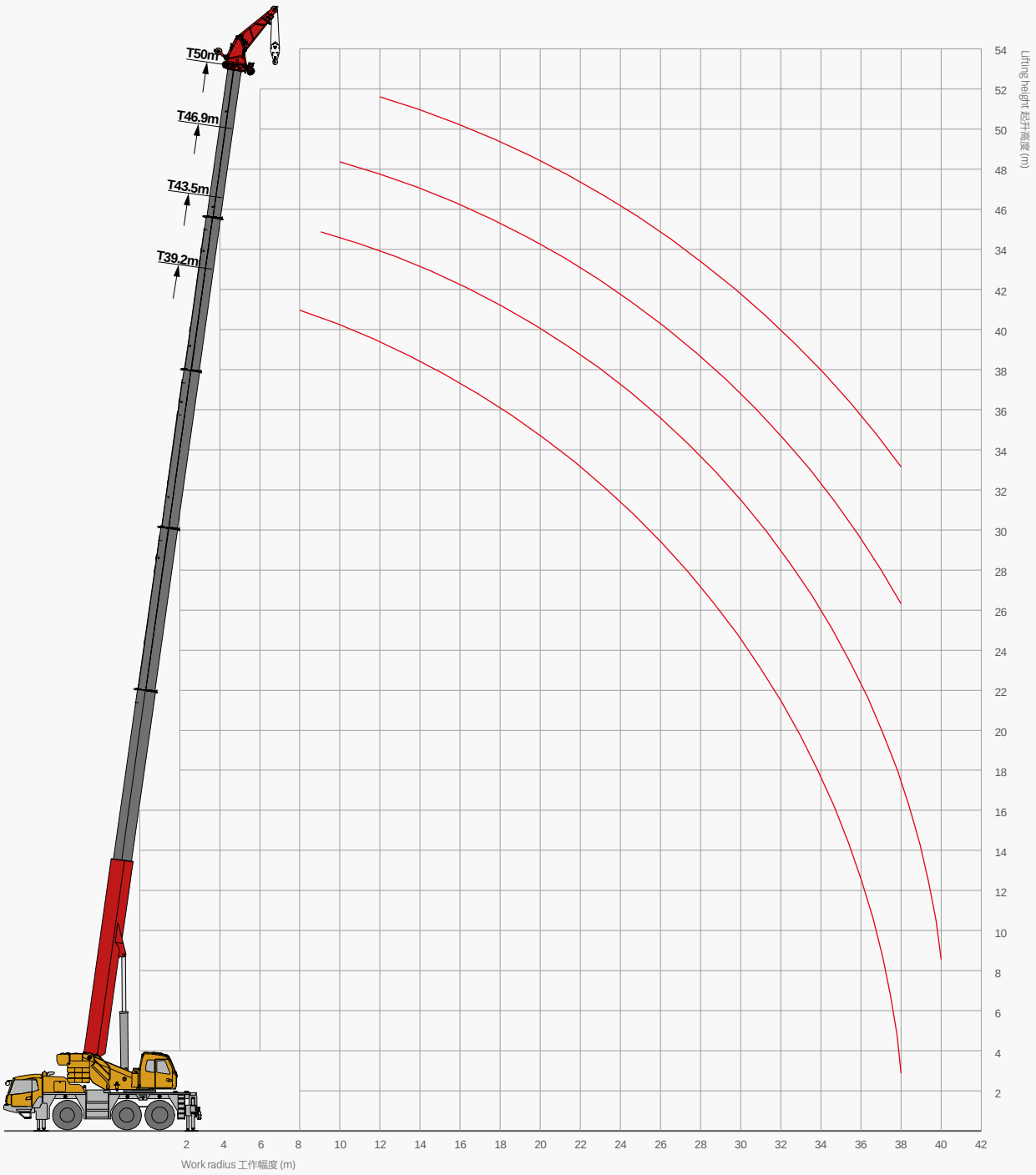


Unit: metric ton

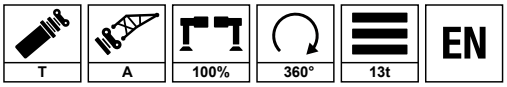
m	43.5			46.9			50			m
	9.2			9.2			9.2			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	
8	5.3									8
9	5.3									9
10	5.3									10
12	5.3	5		3.9	4		3.4			12
14	4.7	4.8	4.5	3.9	3.9		3.4	3.4		14
16	3.5	4	4.3	3.3	3.8	3.6	3.3	3.4	3.3	16
18	2.8	3.1	3.5	2.5	2.9	3.3	2.5	2.9	3.2	18
20	2.2	2.5	2.8	1.9	2.3	2.6	1.9	2.3	2.6	20
22	1.7	2	2.2	1.4	1.7	2	1.4	1.8	2	22
24	1.3	1.6	1.7	1.1	1.4	1.6	1.1	1.3	1.5	24
26	1	1.2	1.4	0.8	1	1.2	0.7	1	1.2	26
28	0.7	0.9	1.1		0.7	0.9		0.7	0.9	28
30			0.8							30
32										32
34										34

m	39.8			43.5			46.9			50			m
	16			16			16			16			
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	
8	3.5			3									8
9	3.4			3			2.6						9
10	3.4			3			2.6			2.3			10
12	3.3			3			2.6			2.3			12
14	3.2	2.8		2.9	2.7		2.6			2.3			14
16	3.2	2.8		2.9	2.6		2.5	2.4		2.2			16
18	2.6	2.7	2.3	2.8	2.5		2.5	2.3		2.2	2.2		18
20	1.9	2.6	2.3	2.3	2.5	2.2	2.1	2.3	2.1	2.1	2.2		20
22	1.5	2	2.2	1.8	2.4	2.2	1.6	2.2	2.1	1.6	2.1	2	22
24	1.1	1.6	2	1.4	1.9	2.2	1.2	1.7	2.1	1.2	1.6	2	24
26	0.8	1.2	1.6	1.1	1.5	1.9	0.9	1.3	1.7	0.9	1.3	1.7	26
28		0.9	1.2	0.8	1.2	1.5		1	1.4		1	1.3	28
30			0.9		0.9	1.2		0.8	1.1		0.7	1	30
32			0.7		0.7	0.9			0.8			0.8	32
34						0.7							34

Operating Range - TA

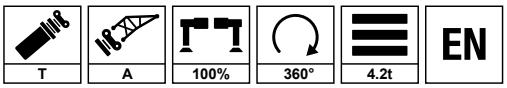


Load Chart - TA



Unit: metric ton

m	39.2	43.5	46.9	50	m
8	9.1				8
9	8.8	7.4			9
10	8.6	7.2	6.5		10
12	7.8	6.9	6.2	5.5	12
14	7.2	6.5	6	5.3	14
16	6.5	6	5.6	5	16
18	5.5	5.5	5.3	4.8	18
20	4.9	4.7	4.9	4.4	20
22	4.2	4.2	4.2	4.1	22
24	3.7	3.6	3.5	3.5	24
26	3.2	3.1	2.9	2.9	26
28	2.7	2.6	2.4	2.4	28
30	2.3	2.2	2.2	2	30
32	2	1.8	1.9	1.6	32
34	1.7	1.5	1.6	1.3	34
36	1.4	1.2	1.3	1	36
38	1.2	1	1	0.8	38
40		0.8			40



Unit: metric ton

m	39.2	43.5	46.9	50	m
8	9.1				8
9	8.8	7.4			9
10	8.6	7.2	6.5		10
12	7.5	6.9	6.2	5.5	12
14	5.6	5.4	5.2	5.2	14
16	4.3	4.2	3.9	3.9	16
18	3.4	3.2	3	3	18
20	2.6	2.5	2.2	2.2	20
22	2.1	1.9	1.7	1.6	22
24	1.6	1.4	1.2	1.2	24
26	1.2	1	0.8	0.8	26
28	0.9	0.7			28

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