SANY®

RONCO
Construction Equipment & Engineering

Call 1800CRANES

SPECIFICATION

60t

50m

66.5m

SAC600E

SANY ALL TERRAIN CRANE

QUALITY CHANGES THE WORLD

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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 1800t, crawler cranes from 25 to 4500t and tower cranes from 6 to 185t.

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 arbitrary outrigger spans, wireless remote control of all motions, optional anti-electromagnetic interference module, and the brand-new iCab, with driving and operation comfort fully upgraded.

50m boom
Boom full extension 50m

Wireless remote control
Wireless remote control available for all actions

Variable position outrigger

Arbitrary outrigger spans with rated load monitored by real-time calculation

Anti-electromagnetic interference

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

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
Reversing sensor with accurate distance detection capability, fully covering the parking area without blind spots, and effectively avoiding scratch and collision
Full-automatic HVAC, able to automatically adjust indoor temperature as demanded

i-Cab - Operator's cab

Seat widened by 450mm, 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
Electric 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

Variable position outrigger

Arbitrary outrigger spans, together with the real-time load calculation, improve the lifting performance by 20%; outrigger length adjustable as desired to adapt to constricted work sites, applicable to more construction scenarios.

Wireless remote control system

Independently developed remote controller in compliance with European and US regulations and CE certified, realizing functions as electronic, smart and digital control as well as one-button extension and retraction, making operation very convenient.

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

- Outrigger status
- Counterweight lifting/lowering, step extension/retraction
- Main parameters
- Boom telescoping

Working condition

Working Conditions

T: Boom

Max. lifting capacity: 60t	Max. boom length: 50m	Max. radius: 39m	Max. height: 50.5 m

TAJ: Boom + auxiliary jib

Max. lifting capacity: 9.1t	Max. boom + jib length: 53m	Max. radius: 40m	Max. height: 53.5m

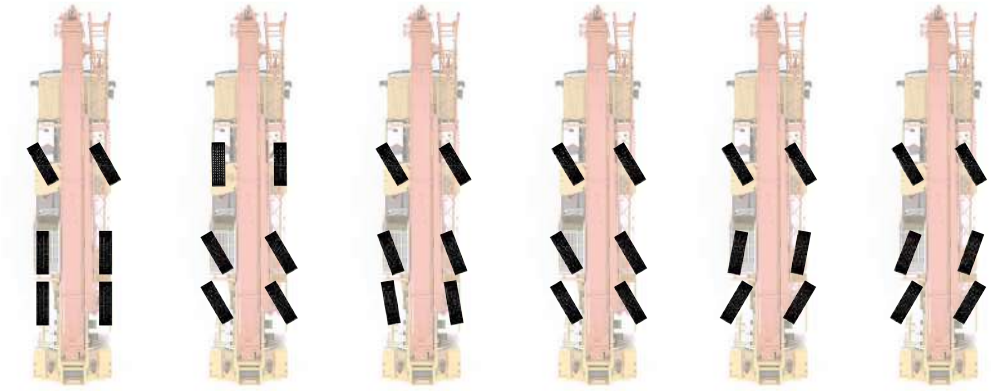
THJ: Boom + hydraulically adjustable jib (optional)

Max. lifting capacity: 4.1t	Max. boom + jib length: 66m	Max. radius: 34m	Max. height: 66.5m

TF: Boom + fixed jib

Max. lifting capacity: 4.1t	Max. boom + jib length: 66m	Max. radius: 34m	Max. height: 66.5m

Travel flexibility



Independent front axle steering

Independent rear axle steering

Reduced swing-out steering

Crab steering

On-road driving

All-wheel steering

≤16t ≤16t ≤16t

counterweight 13t

≤12t ≤12t ≤12t

counterweight 3.6t

Max speed：**80km/h**

Min steering diameter：＜**13m** Fuel

consumption：**60L/100km** Max.

gradeability：**67%**

Suspension stroke：**+100mm**

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 Stable support.
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 system

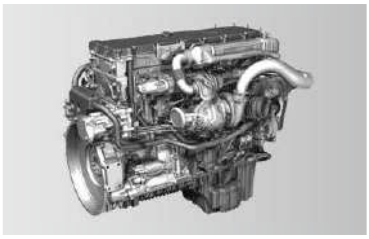
Engine
Mercedes-Benz OM470LA off-road in-line six cylinder water-cooled diesel engine, complying with Stage III or Stage V emission standards.
Rated power: 280kW/1700rpm
Max. torque: 1900Nm/1300rpm
Fuel reservoir capacity: 500L

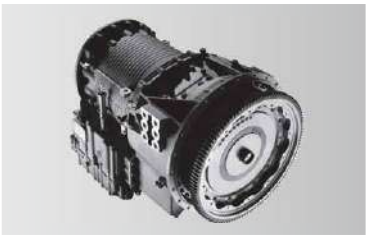
Transmission
Allison 4500SP 6-speed AT with three-phase torque converter and planetary gear, allowing for smooth start, smooth gearshift without impact, and low maintenance cost

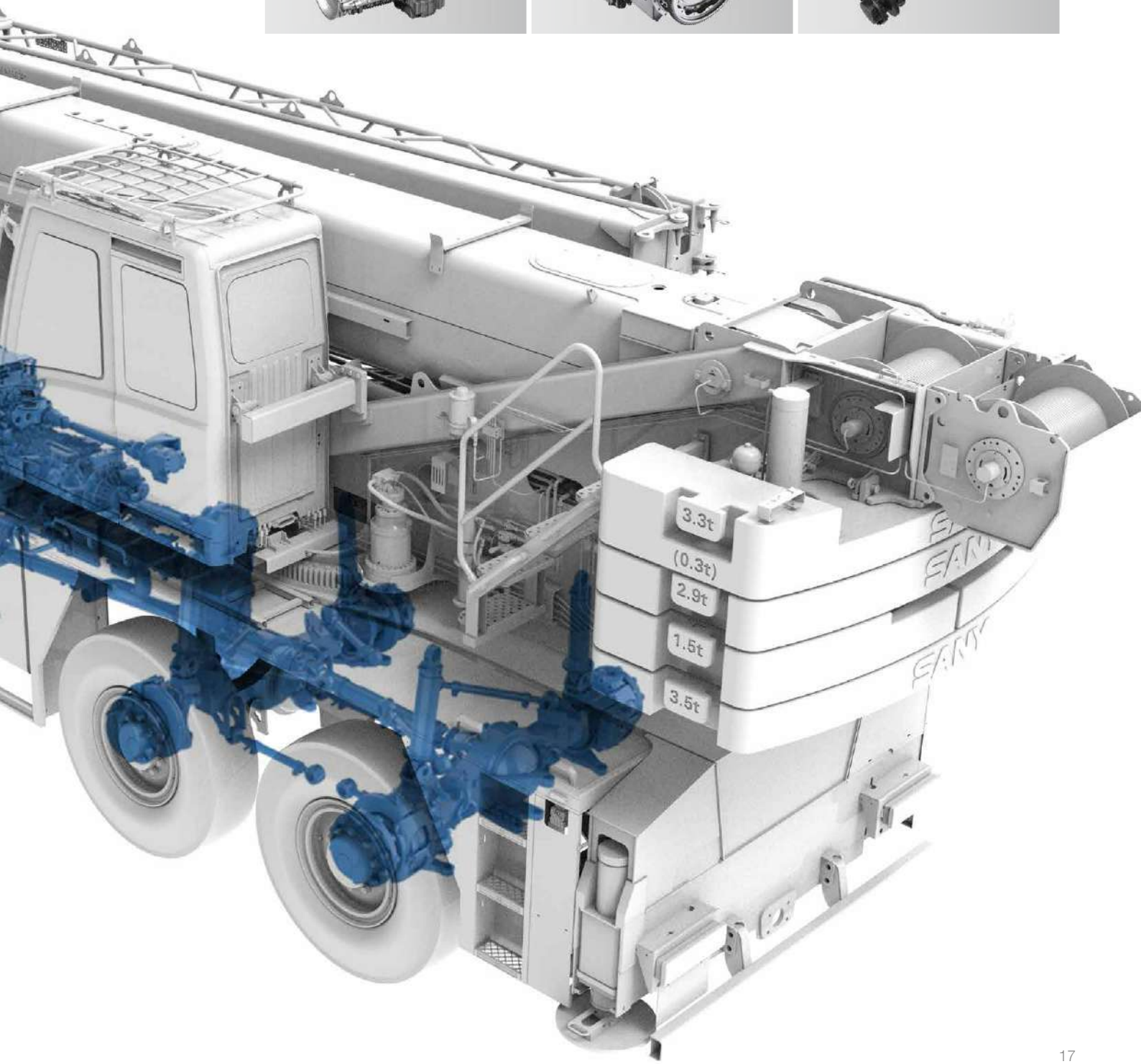
Braking system
Braking system consisting of disc brake, air chamber and ABS, making the braking performance more reliable and efficient. Optional eddy current retarder, allowing for effective assist braking, reducing the wear of axle brake linings and prolonging service life. Parking brake and service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






3.3t
(0.3t)
2.9t
1.5t
3.5t

Electrical System

Smart CAN-BUS communication system
International advanced CAN-BUS data communication network;
Safety controller of redundant design featuring fault diagnosis (conforming to EN13000 standard)
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
Safety controller functions monitoring, BCM power distribution management and is integrated with fault diagnosis system, enabling accurate fault location, and convenient inspection and maintenance.

AEC-approved console screen
Specially designed for SAC600E, and integrating functions including suspension control, steering control, outrigger control and data calibration

Precise load moment indicator
SANY independently developed 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

Third wrap indicator

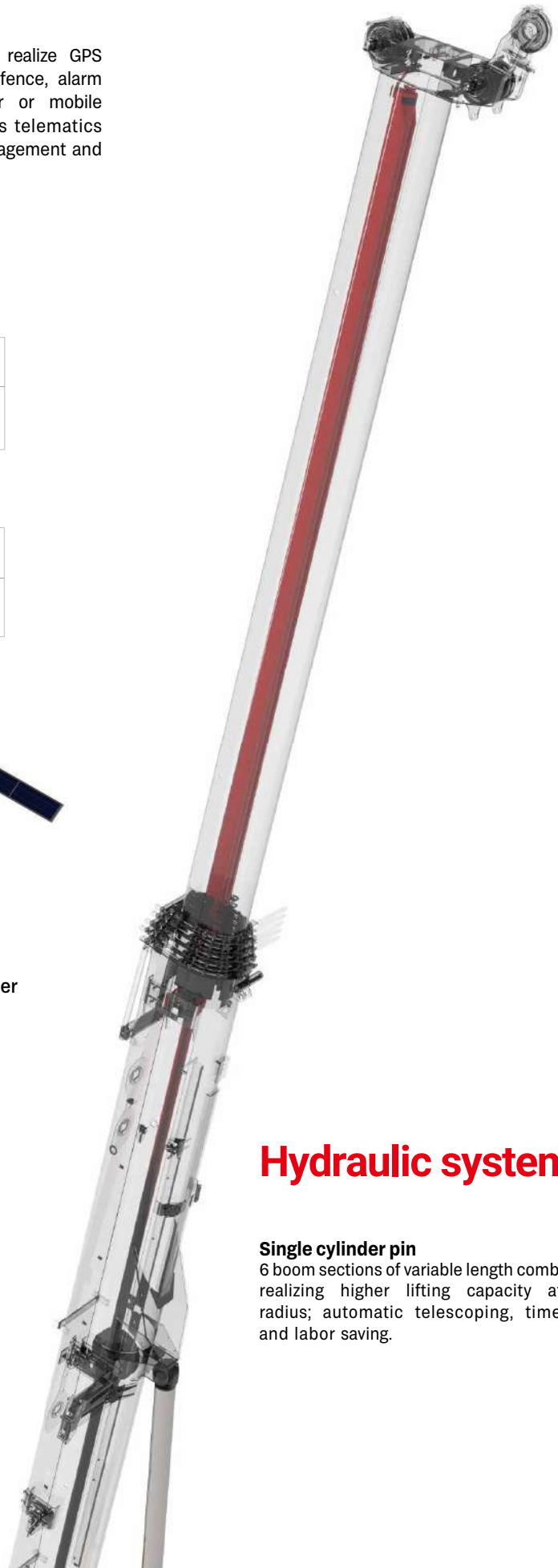
Cable reel

Cable reel inside the boom

Anemometer

MachineLink+

ROOTCLOUD T-AMS Pro device comes as standard to realize GPS trajectory, machine status, maintenance management, E-fence, alarm management, and operator 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.

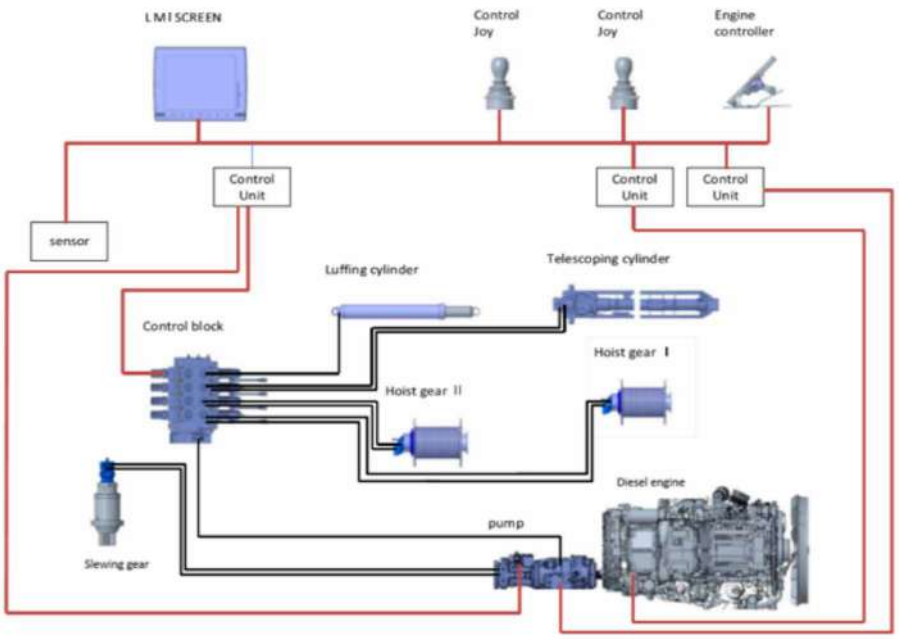


Hydraulic system

Single cylinder pin
6 boom sections of variable length combinations, realizing higher lifting capacity at larger radius; 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, and distribution difference in case of combined motions ≤ 8%.

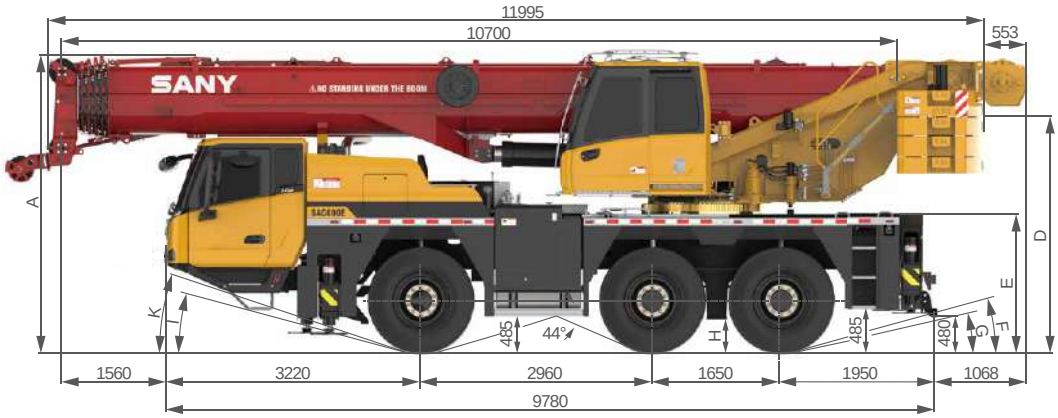


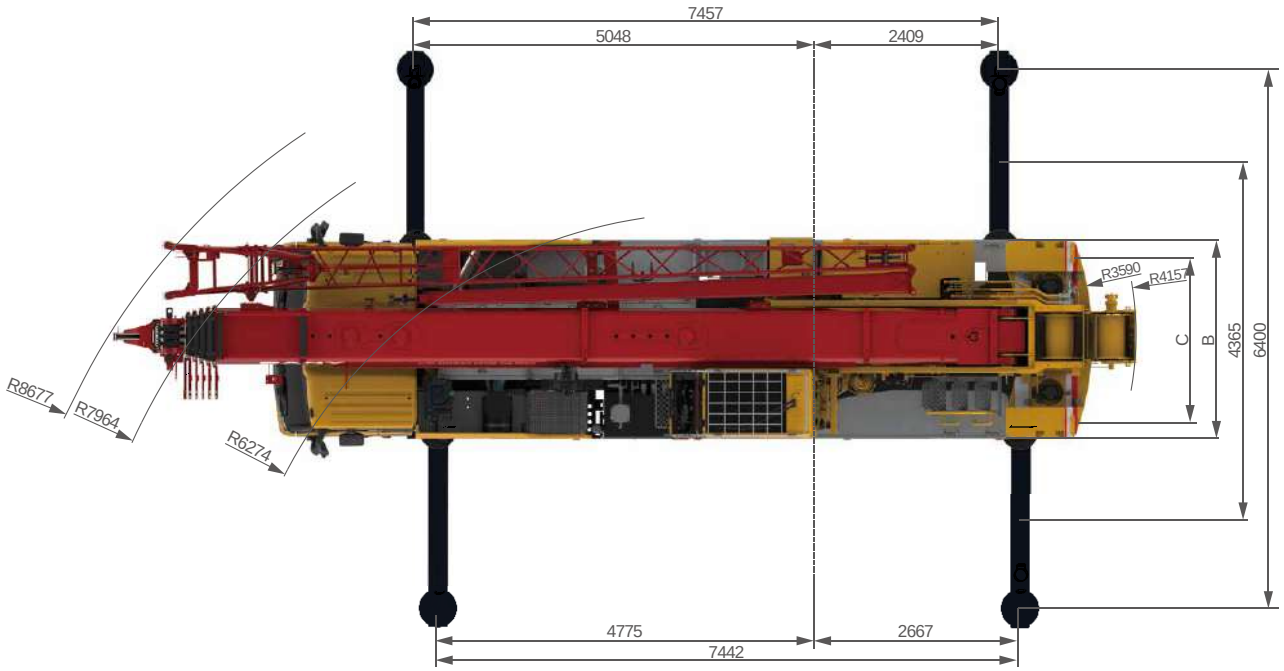
Chassis

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 Rexroth bidirectional piston pump installed on the transfer case, ensuring steering assistance throughout the traveling.
Electro-hydraulic assisted steering system
A Rexroth 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.
A large-capacity accumulator installed as back energy to support limited times of normal assisted steering when the power is lost.

Suspension system
A Rexroth 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; suspension to be locked when the crane is operating.
Outrigger telescoping system
Full-electric control of outrigger, realizing arbitrary telescoping and auto leveling.

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	18	14	397	13	16
445	3827	3727	2550	2100	3042	1810	20	16	447	15	18
525	3827	3727	2800	2240	3042	1810	20	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 (Stage III) OM470LA.E5-4 (Stage V)
	Max. engine power		kW/rpm	280/1700(Stage III) 280/1600(Stage V)
	Max. engine torque		N·m/rpm	1900/1300
DIMENSIONS	Overall length		mm	11995
	Overall width		mm	2550
	Overall height		mm	3777(#385 tires)
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		°	12(#385 tires)
	Departure angle		°	13.8(#385 tires)
	Max.gradeability		%	67
	Fuel consumption per 100km		L	60
MAIN PERFORMANCE	Working temperature range		℃	-20~45
	Min.rated lifting radius		m	3
	Tail slewing radius 转		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
Airconditioner	In operator's cab		-	Heating & Cooling
	In driver's cab		-	Heating & Cooling

Technical Parameters

Axle Load

Axle	1	2	3	Total weight
Axle load /t	12	12	12	36

Operations

Item		Single rope speed	Rope diameter/length	Max. single line pull
Main winch		130m/min	15mm/220m	47.7kN
Auxiliary winch		130m/min	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	•	•				
6.5t	•	•	•			
10t	•	•	•			•
13t	•	•	•	•	•	•

Hook

Type	Load	Number of sheaves	Rope rate	Hook weight /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

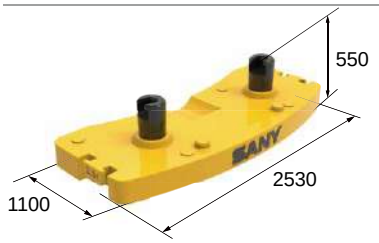
Travelling With Variable CW

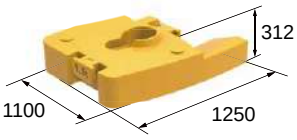
Axle load	Drive	Tire Size	Hook block	Counterweight
<12t	6×6	445	4.8t+14.2t *	3.6t
<12t	6×6	385	4.8t+14.2t **	3.6t
<12t	6×4	445	4.8t+14.2t *	3.6t
<12t	6×4	385	4.8t+14.2t **	3.6t
<12t	6×4	525	14.2t ***	3.6t

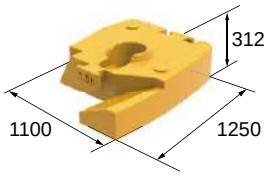
Remark:
*4.8t hook attached to frame tail, 14.2t hook attached to frame center.
**4.8t hook attached to frame tail, 14.2t hook attached to frame center or in front of driver's cab.
***14.2t hook attached to frame center.

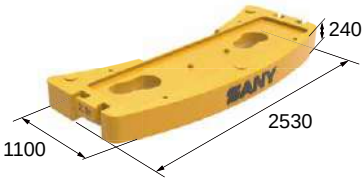
Transport Dimensions

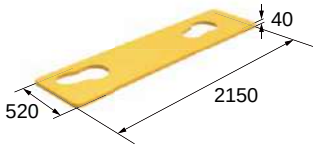
Unit:mm

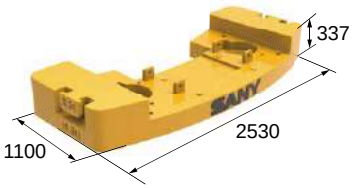












32t hook block

14.2t hook block

4.8t hook block

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 III emission standard.
- Fuel reservoir capacity: 450L.

Transmission

- Allison auto-transmission, 6 forward gears and 1 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 ±100mm in height. Smooth driving, anti-tipping.

Tire

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

Braking

- All-wheel air brakes. 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.

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°,20°,40°.

Slewing

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

Hydraulics

- 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

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

Luff ng

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

Safety equipment

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

Counterweight

- Fixed unit 3.3t, removable units 9.7t.

Optional equipment at extra fee

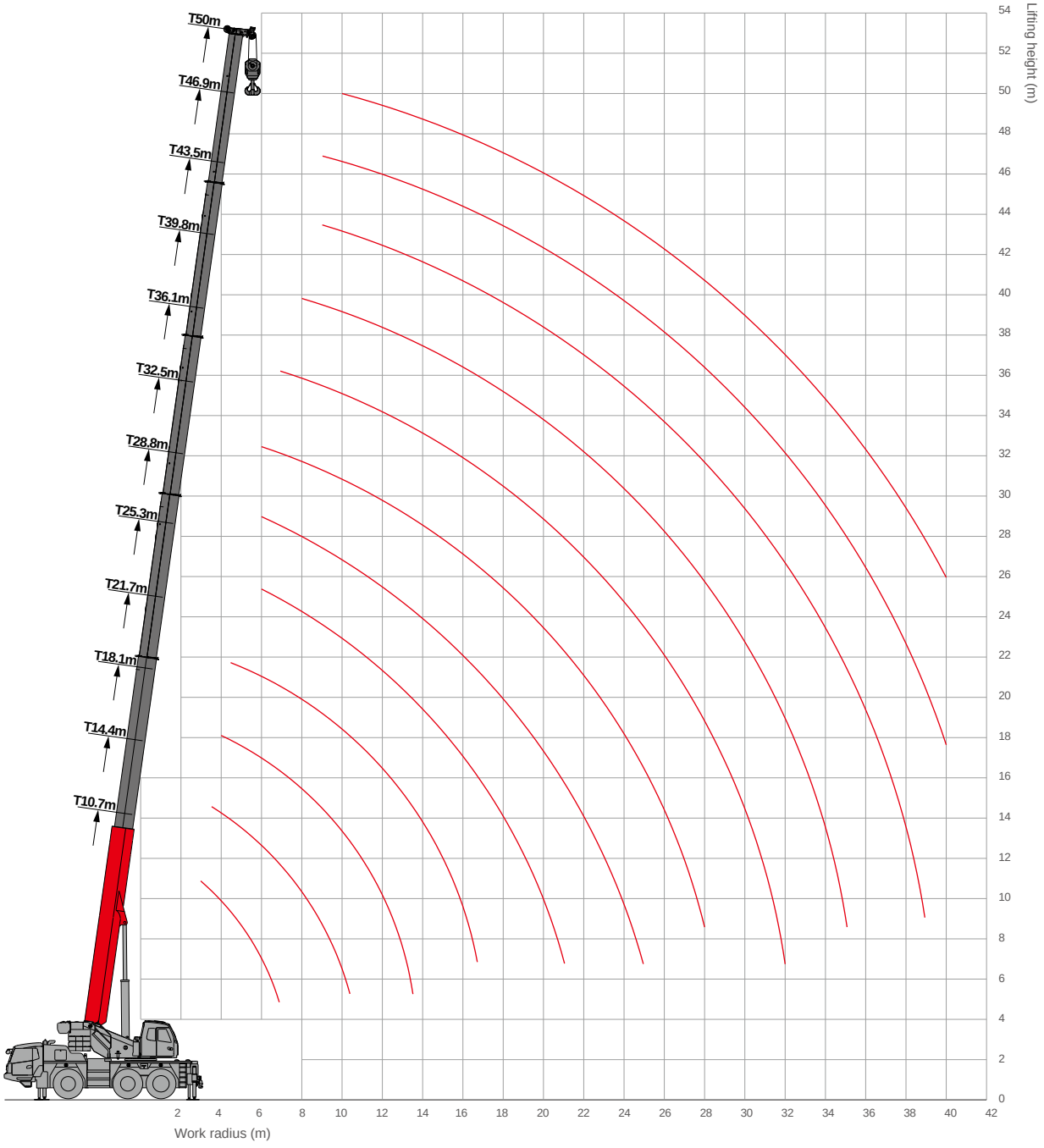
- 60t and 48.9t capacity hook blocks.
- Auxiliary winch.
- Auxiliary jib.
- 6×6 drive mode.
- Tires size 445 and 525.
- Hydraulically adjustable swing-away jib.
- Customized painting.
- Other equipment available upon request.

Working Conditions & Code Description

- T - Telescopic boom
- F - Fixed jib
- HJ - Hydraulically adjustable jib
- AJ - Auxiliary jib

T TF/THJ TAJ

Operating Range - T



Load Chart-T

Unit: metric ton

Radius (m)	10.7*	10.7	14.4	18.1	21.7	25.3	28.8	32.5	36.1	39.8	43.5	46.9	50	Radius (m)
3	60	47.1												3
3.5	50	43.6	41.7											3.5
4	46.7	40.4	38.7	37.7										4
4.5	42.3	37.7	36.1	35.2	35									4.5
5	37	35.2	33.9	33	32.7									5
6	30	28.8	28.7	29.2	28.9	27.9	24.9	20.2						6
7	25	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

Remark: rating with * indicates load over rear.

Load Chart-T

Unit: metric ton

Radius (m)	10.7	14.4	18.1	21.7	25.3	28.8	32.5	36.1	39.8	43.5	46.9	50	Radius (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

Remark: rating with * indicates load over rear.

Load Chart-T

Unit: metric ton

Radius (m)	10.7	14.4	18.1	21.7	25.3	28.8	32.5	36.1	39.8	43.5	46.9	50	Radius (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

Remark: rating with * indicates load over rear.

Load Chart-T

Unit: metric ton

Radius (m)	10.7	14.4	18.1	21.7	25.3	28.8	32.5	36.1	39.8	43.5	46.9	50	Radius (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

Remark: rating with * indicates load over rear.

Load Chart-T

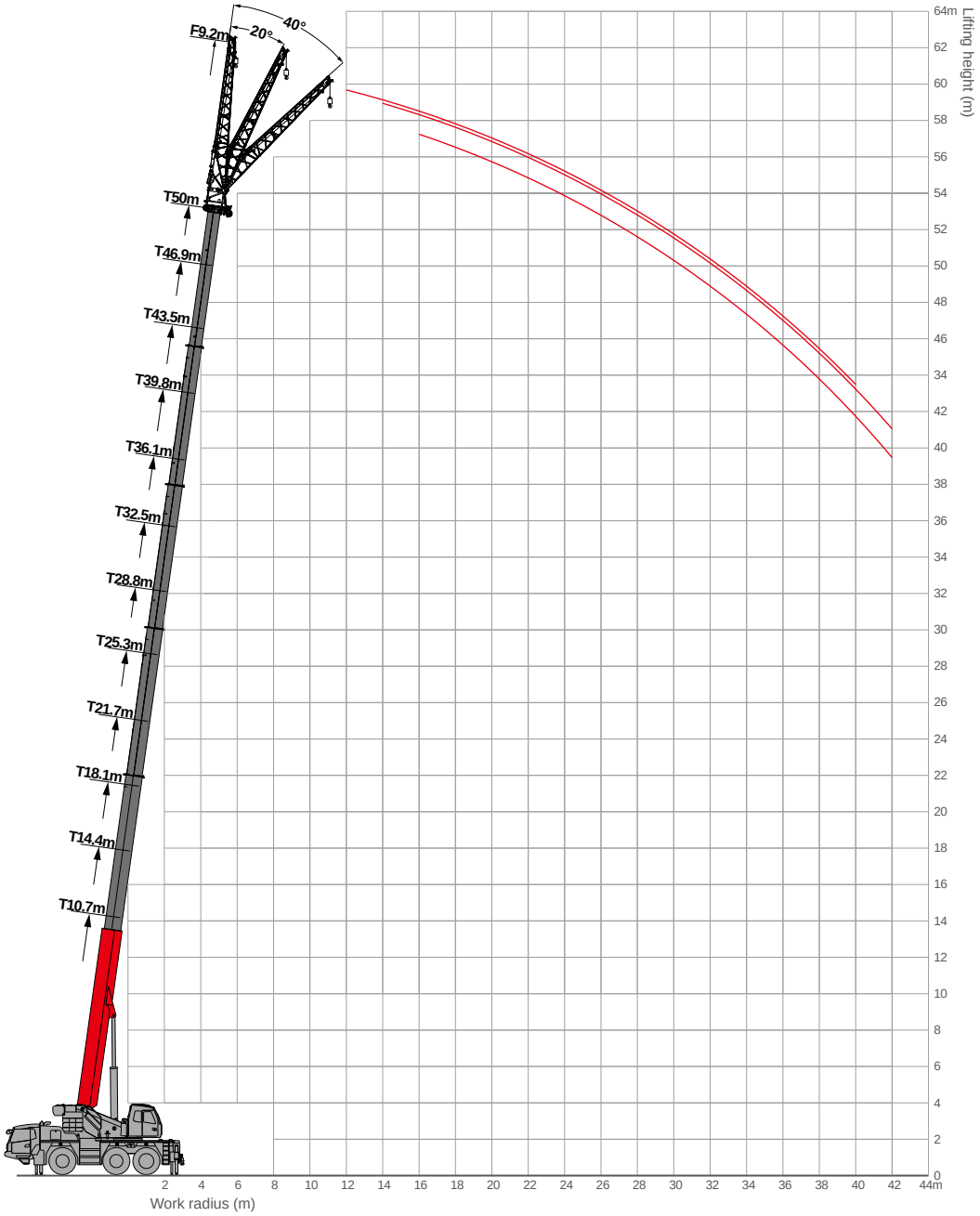
性能表 -

Unit: metric ton

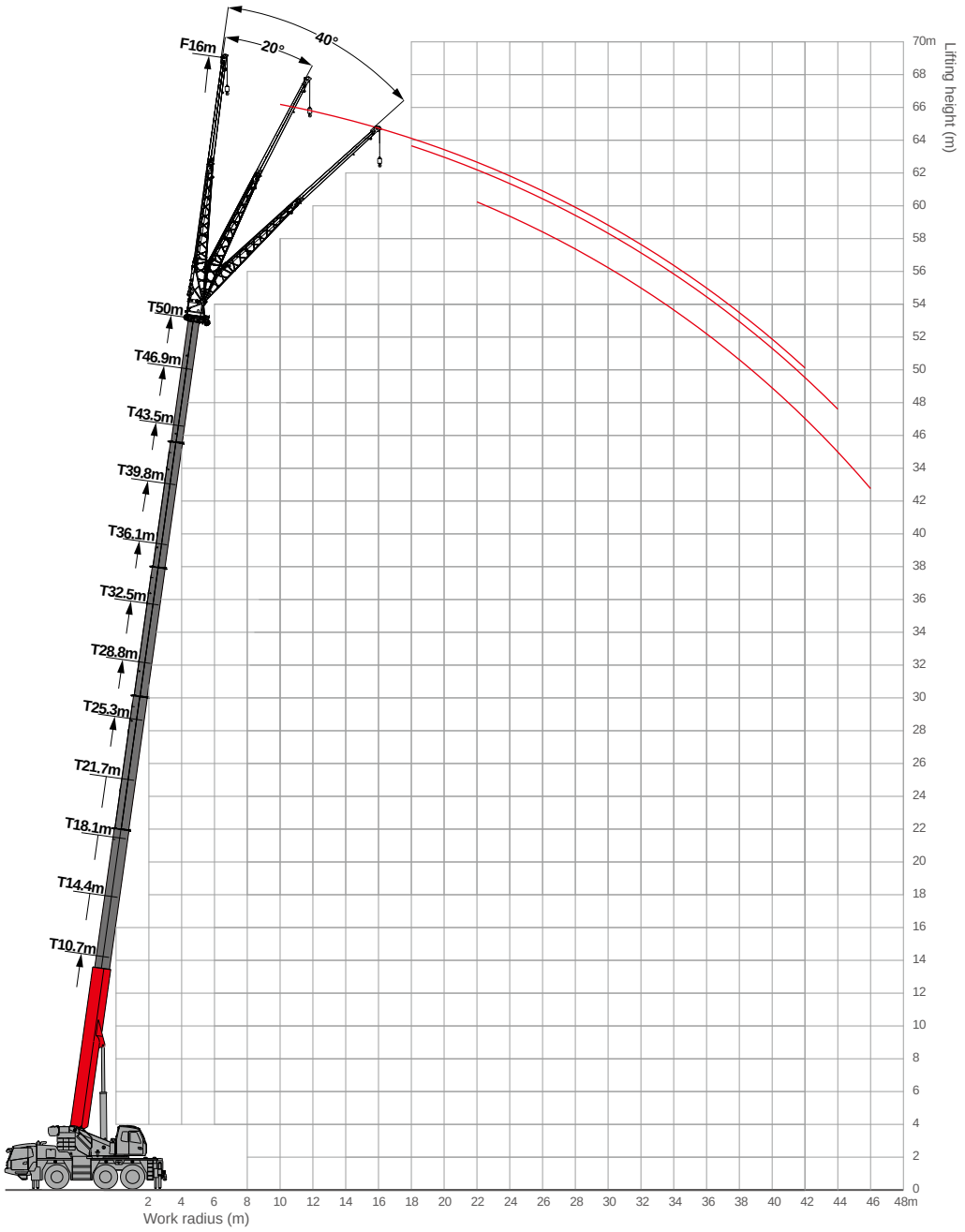
Radius (m)	10.7	14.4	18.1	21.7	25.3	28.8	32.5	36.1	39.8	43.5	46.9	50	Radius (m)
3	43												3
3.5	40	41.7											3.5
4	38.7	38.7	36.9										4
4.5	32.5	32.4	33	31									4.5
5	26.5	27.3	27.7	26.6									5
6	18.9	19.6	20	20.6	20.5	19.8	18.3						6
7	14	14.8	15.8	15.9	15.8	16.2	15.8	14.4					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

Remark: rating with * indicates load over rear.

Operating Range - TF



Operating Range - TF



Load Chart - TF

Unit: metric ton

Radius (m)	43.5			46.9			50			Radius (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

Radius (m)	39.8			43.5			46.9			50			Radius (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

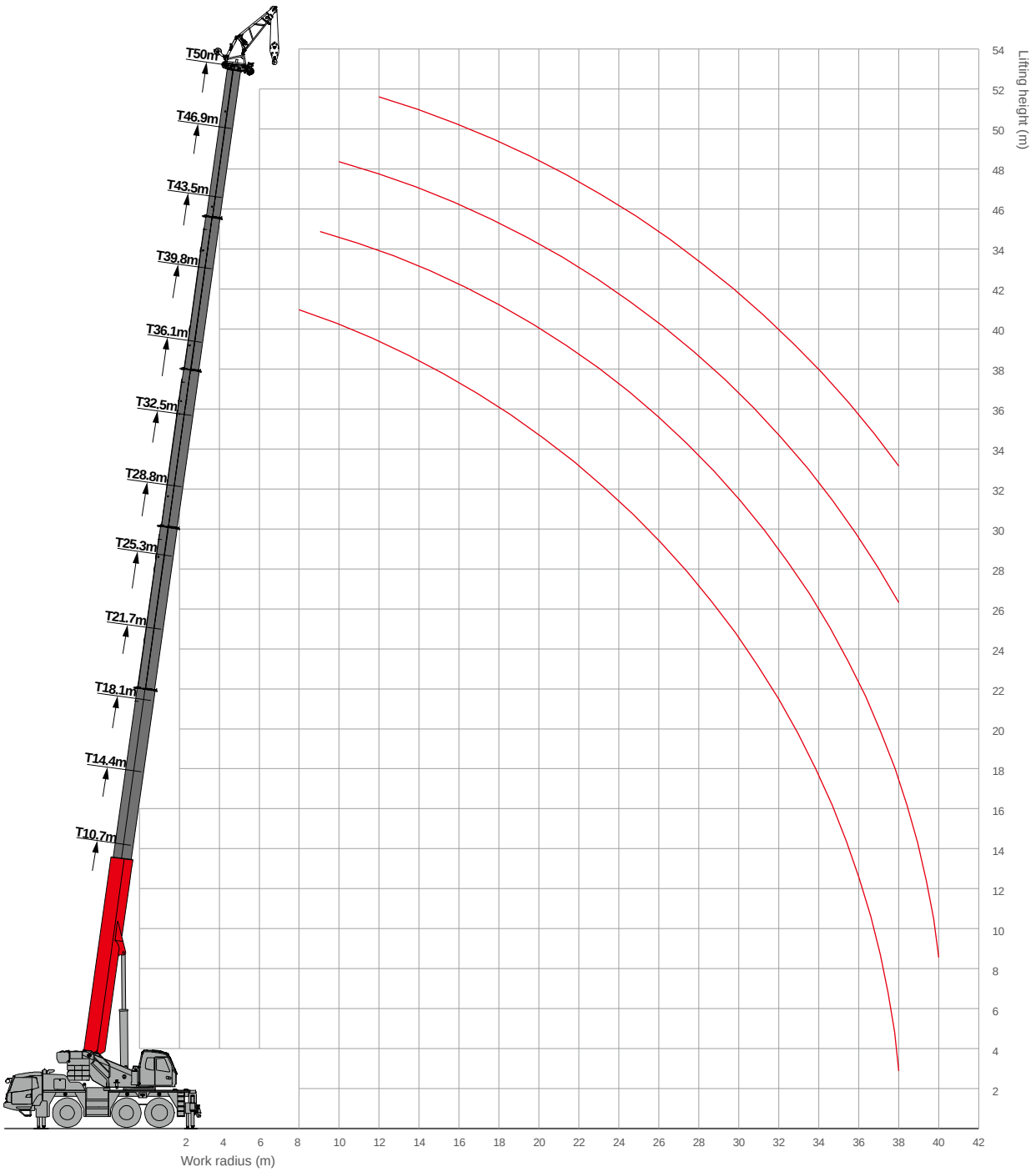
Load Chart - TF

Unit: metric ton

Radius (m)	43.5			46.9			50			Radius (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

Radius (m)	39.8			43.5			46.9			50			Radius (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 - TAJ



Load Chart - TAJ

Unit: metric ton

Radius (m)	39.2	43.5	46.9	50	Radius (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

Radius (m)	39.2	43.5	46.9	50	Radius (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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