

**PRODUCT  
SPECIFICATIONS**



# SAC600E

**SANY ALL TERRAIN CRANE  
60T LIFTING CAPACITY**



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

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## 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 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.

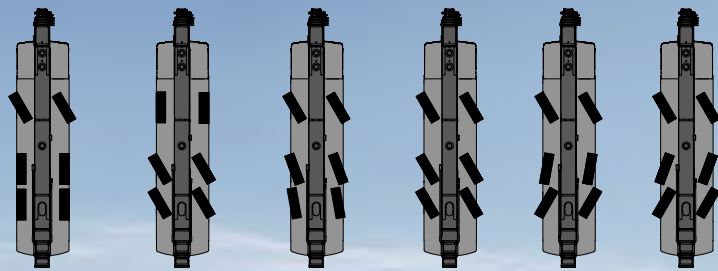


## Modernity & Fuel Economy

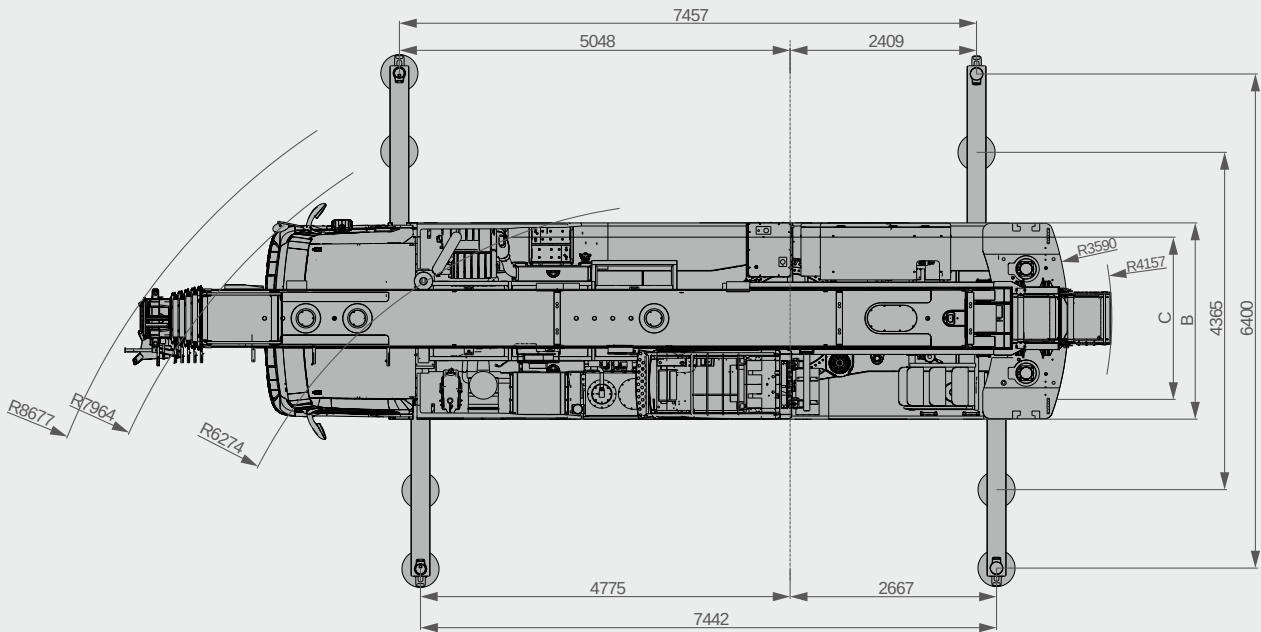
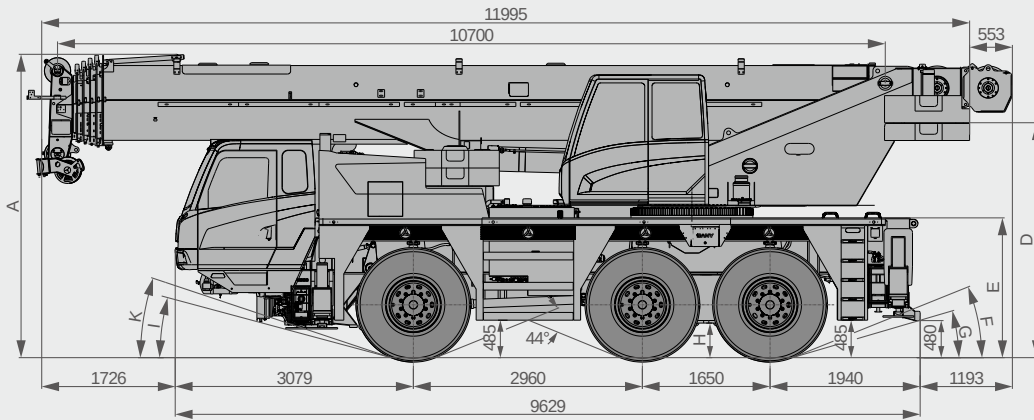
- Newly designed cab optimizes safety, comfort, and convenience of easier operation.
- Load sensing and constant power control optimize fuel utilization.

## 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	°	°
<b>385</b>	3777	3677	2550	2170	2992	1760	19.6	13.8	397	12	16
<b>445</b>	3827	3727	2550	2100	3042	1810	22	16	447	15	18
<b>525</b>	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	
<b>CAPACITY</b>	Max. lifting capacity	t	60	
<b>WEIGHT</b>	Gross weight	kg	36000	
<b>POWER</b>	Engine model (Emission standard)	-	OM470.E3A-3	
	Max. engine power	kW/rpm	280/1600	
	Max. engine torque	N·m/rpm	1900/1300	
<b>DIMENSIONS</b>	Overall length	mm	11995	
	Overall width	mm	2550	
	Overall height	mm	3777(#385 tires)	
	Axle base	Axle 1&2 mm Axle 2&3 mm	2960 1650	
<b>TRAVEL</b>	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	
<b>MAIN PERFORMANCE</b>	Working temperature range	°C	-20~45	
	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		
<b>OPERATION SPEED</b>	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	
<b>Airconditioner</b>	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	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	•	•				
6.5t	•	•	•			
10t	•	•	•			•
13t	•	•	•	•	•	•



## Hook

### Travelling With Variable CW

Load/t	Number of sheaves	Rope rate	Hook weight /kg	Axle load	Drive	Tire Size	Hook block	Counterweight
60t	7	14	463	<12t	6×6	445	4.8t+14.2t *	3.6t
48.9t	5	11	406	<12t	6×6	385	4.8t+14.2t **	3.6t
32t	3	7	323	<12t	6×4	445	4.8t+14.2t *	3.6t
14.2t	1	3	215	<12t	6×4	385	4.8t+14.2t **	3.6t
4.8t	-	1	108	<12t	6×4	525	14.2t ***	3.6t

Remark:

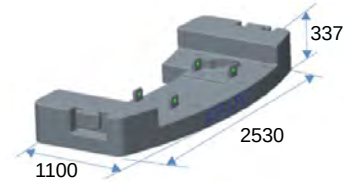
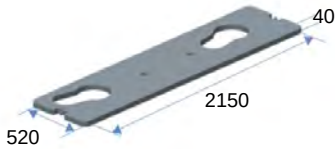
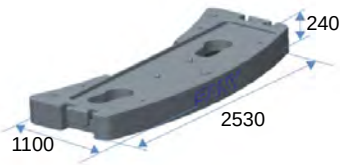
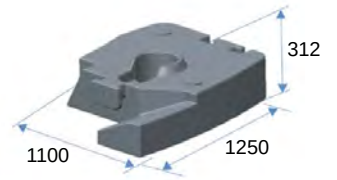
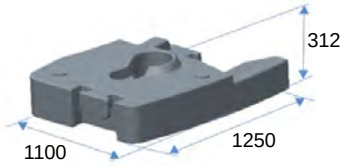
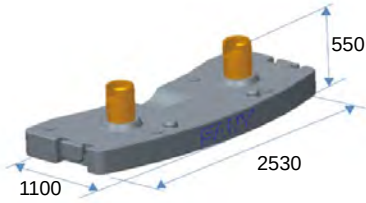
\*4.8t hook attached to frame tail, 14.2t hook attached to frame center.

\*\*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



60t hook block



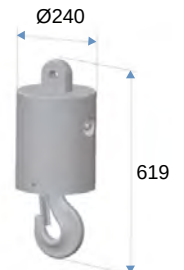
48.9t hook block



32t hook block

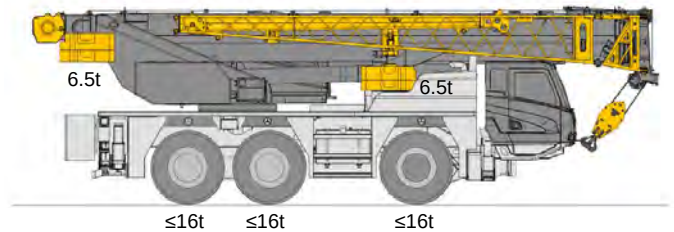
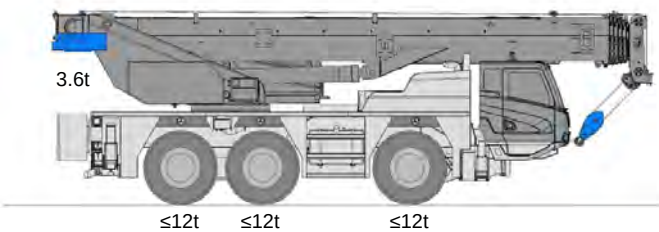


14.2t hook block



4.8t hook block

## Short distance transfer with CW(385# tires)



# 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, 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  $\pm 100$ mm in height. Smooth driving, anti-tipping.



## Tire

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

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°, 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 winches are 15mm in diameter and 220m in length.



## Luffing

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



## Safety equipment

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



## Counterweight

- Fixed unit 3.3t, removable units 9.7t.



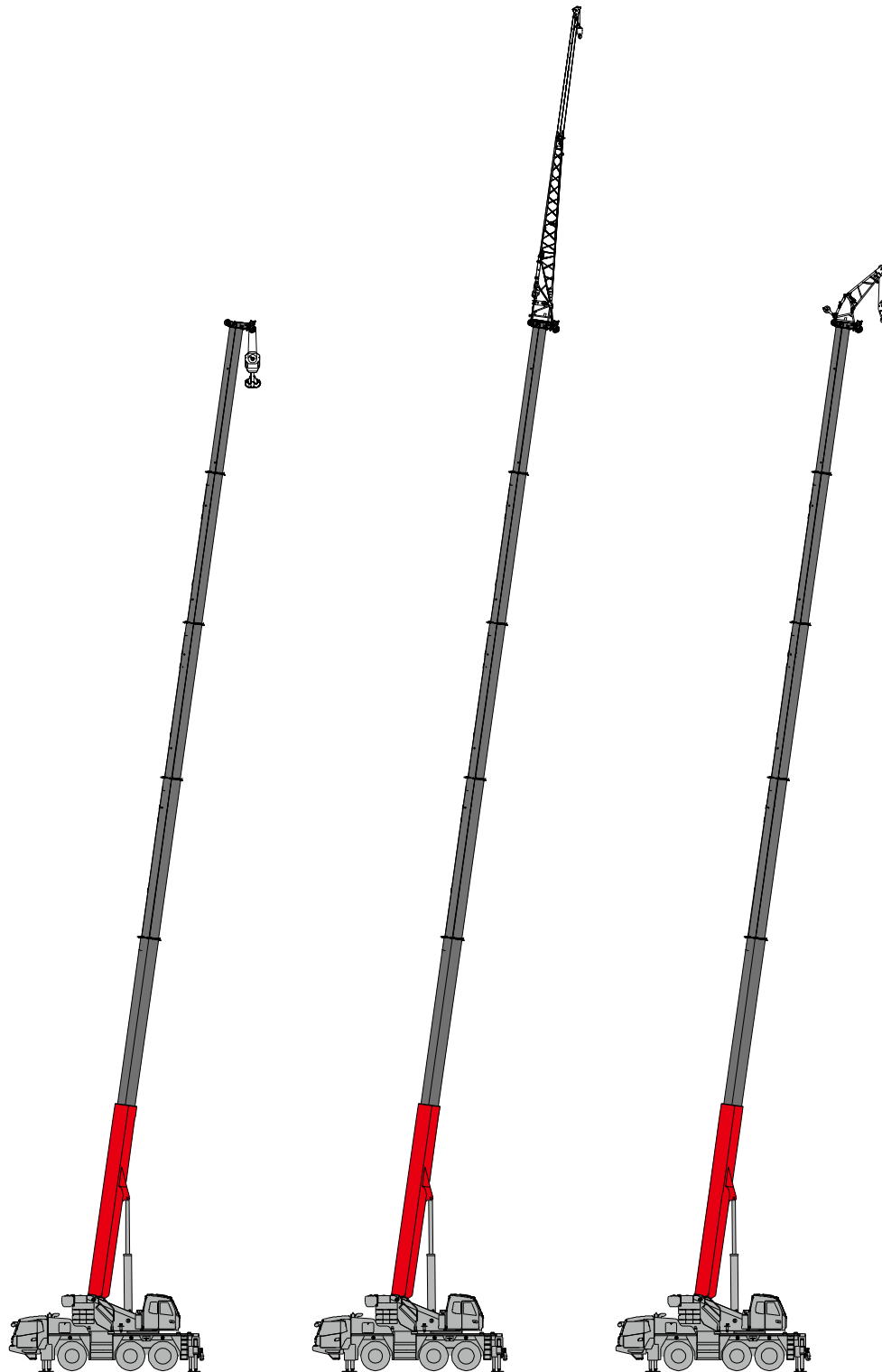
## Optional equipment at extra fees

- 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

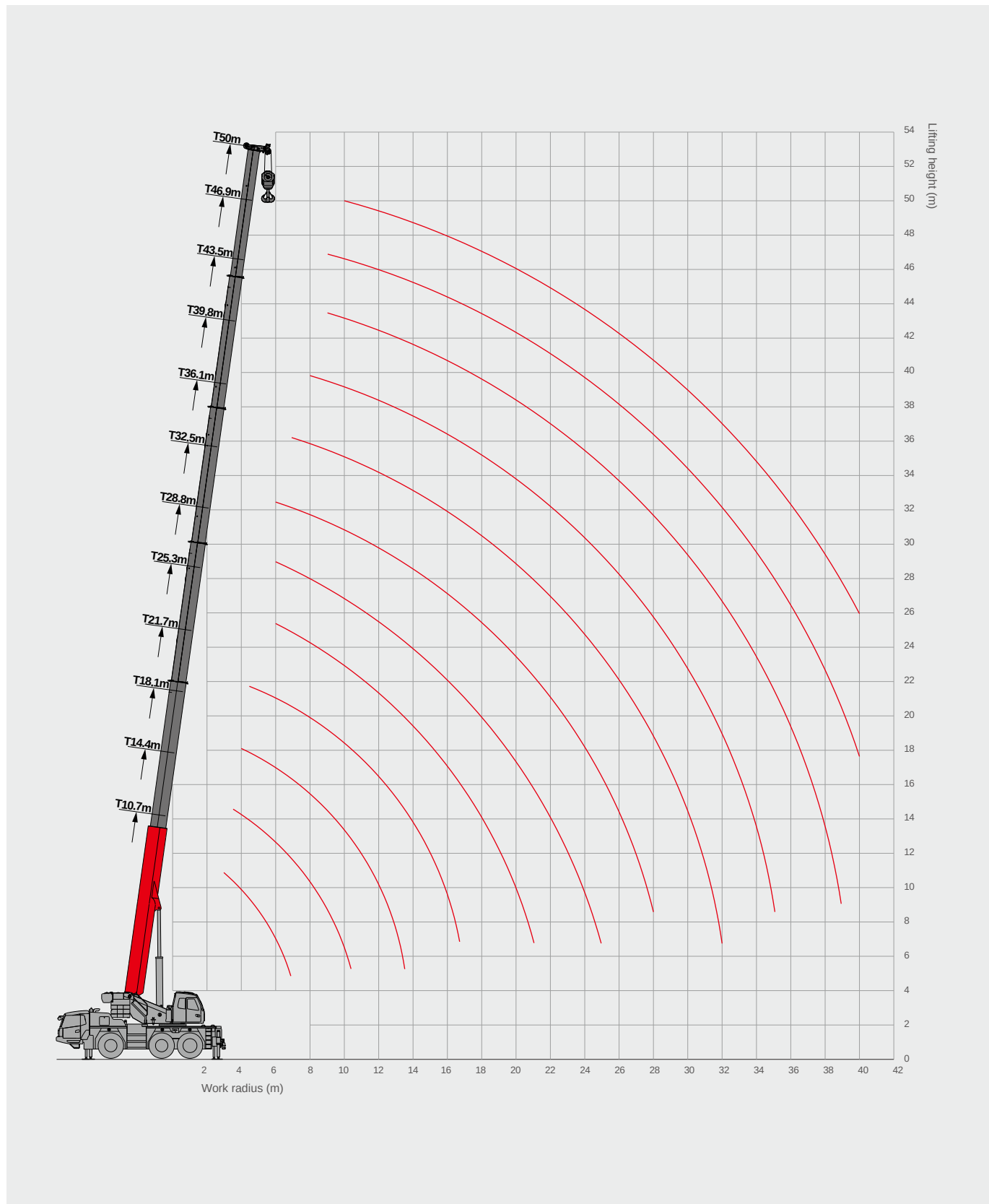


T

TF/THJ

TAJ

# Operating Range - T



# Load Chart-T



Unit: metric ton

Radius (m)	10.7*	10.7	14.4	18.0	21.7	25.3	28.8	32.4	36.1	39.7	43.3	46.8	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	34.2									4.5
5	37	35.2	33.9	33	32									5
6	30	28.8	28.7	29.2	28.4	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	14.6	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			10.7	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	8.5	8.4	8	7	6.2	14
15					7.5	7.3	7.6	7.8	7.6	7.6	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	2.4	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

Remark: rating with \* indicates load over rear.

# Load Chart-T



Unit: metric ton

Radius (m)	10.7	14.4	18.0	21.7	25.3	28.8	32.4	36.1	39.7	43.3	46.8	50	Radius (m)
3	47.1												3
3.5	43.6	41.7											3.5
4	40.4	38.7	37.7										4
4.5	37.7	36.1	35.2	34.2									4.5
5	35.2	33.9	33	32									5
6	25.8	25.6	26.8	25.8	26.4	24.9	20.2						6
7	19.8	20.5	20.8	21.5	21.3	20.9	18.2	15.9					7
8		16.5	17	17.4	17.3	16.9	16.5	15.5	12.7				8
9		13.8	14.4	14.5	14.3	14.5	14.4	13.7	12.5	10.2	7.8		9
10		11.6	12.3	12.4	12.2	12.6	12.5	12.4	11.7	10	7.8	6.4	10
11		10	10.6	10.7	10.5	10.9	11	10.8	10.2	9.7	7.7	6.4	11
12			9.2	9.2	9.1	9.5	9.6	9.5	9.4	8.8	7.5	6.4	12
13			8	8.1	8.1	8.3	8.5	8.5	8.2	8.1	7.2	6.4	13
14			7	7.1	7.4	7.3	7.5	7.5	7.3	7.1	6.9	6.2	14
15				6.4	6.7	6.5	6.7	6.7	6.5	6.4	6.1	6.1	15
16				5.7	6	5.9	6	6	5.8	5.7	5.5	5.5	16
17				5.1	5.5	5.5	5.4	5.4	5.2	5.1	4.9	4.9	17
18				4.6	4.9	5.1	5	4.9	4.8	4.6	4.4	4.4	18
19					4.5	4.6	4.5	4.5	4.3	4.2	3.9	3.9	19
20					4.1	4.2	4.1	4.1	3.8	3.8	3.6	3.5	20
21					3.8	3.9	3.8	3.8	3.5	3.4	3.2	3.2	21
22						3.6	3.4	3.4	3.2	3.1	2.9	2.9	22
23						3.2	3.2	3.1	2.9	2.8	2.6	2.6	23
24						3	2.9	2.9	2.7	2.6	2.3	2.4	24
25						2.8	2.7	2.6	2.5	2.3	2.1	2.1	25
26							2.5	2.4	2.2	2.1	1.8	1.9	26
27							2.3	2.2	2.1	1.9	1.7	1.7	27
28								2	1.9	1.7	1.5	1.6	28
29								1.8	1.7	1.6	1.3	1.4	29
30								1.7	1.5	1.4	1.2	1.2	30
31								1.5	1.4	1.3	1.1	1.1	31
32								1.4	1.2	1.2	0.9	1	32
33									1.1	1	0.8	0.8	33
34									1.1	0.9	0.7	0.7	34
35									0.9	0.8			35
36										0.7			36

# Load Chart-T



Unit: metric ton

Radius (m)	10.7	14.4	18.0	21.7	25.3	28.8	32.4	36.1	39.7	43.3	46.8	50	Radius (m)
3	47.1												3
3.5	43.6	41.7											3.5
4	40.4	38.7	37.7										4
4.5	37.7	36.1	35.2	34.2									4.5
5	30.8	31.7	32	30.9									5
6	22.2	22.9	23.2	23.9	23.8	22.9	20.2						6
7	17	17.7	18.5	18.6	18.4	18.1	17.6	15.9					7
8		14.4	14.9	15	14.9	15.3	14.9	14.6	12.7				8
9		11.7	12.3	12.4	12.5	12.6	12.8	12.4	11.6	10.2	7.8		9
10		9.7	10.2	10.3	10.7	10.5	10.7	10.7	10.1	9.8	7.8	6.4	10
11		8.2	8.6	8.8	9.2	9	9.2	9.2	8.8	8.8	7.7	6.4	11
12			7.5	7.5	7.9	8.1	7.8	7.9	7.7	7.5	7.2	6.4	12
13			6.5	6.5	6.9	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	5.5	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								1.4	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

# Load Chart-T



Unit: metric ton

Radius (m)	10.7	14.4	18.0	21.7	25.3	28.8	32.4	36.1	39.7	43.3	46.8	50	Radius (m)
3	47.1												3
3.5	43.6	41.7											3.5
4	40.4	38.7	37.7										4
4.5	33.1	34	34.3	31.5									4.5
5	26.9	27.7	28.1	28.4									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	15.5					7
8		12	12.5	12.7	13.2	13	13.1	12.8	12.4				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	6.4	10
11		6.6	7	7.5	7.5	7.6	7.6	7.5	7.3	7.1	6.9	6.4	11
12			6	6.5	6.6	6.7	6.5	6.4	6.3	6.1	5.8	5.8	12
13			5.2	5.6	5.7	5.8	5.6	5.6	5.4	5.3	5	5	13
14			4.5	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	3.8	4	3.9	3.8	3.6	3.5	3.2	3.3	16
17				3.4	3.4	3.5	3.4	3.4	3.2	3	2.8	2.8	17
18				3	3	3.1	3	3	2.8	2.6	2.4	2.5	18
19					2.7	2.8	2.7	2.7	2.5	2.3	2.1	2.2	19
20					2.4	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	0.7				28
29								0.7					29

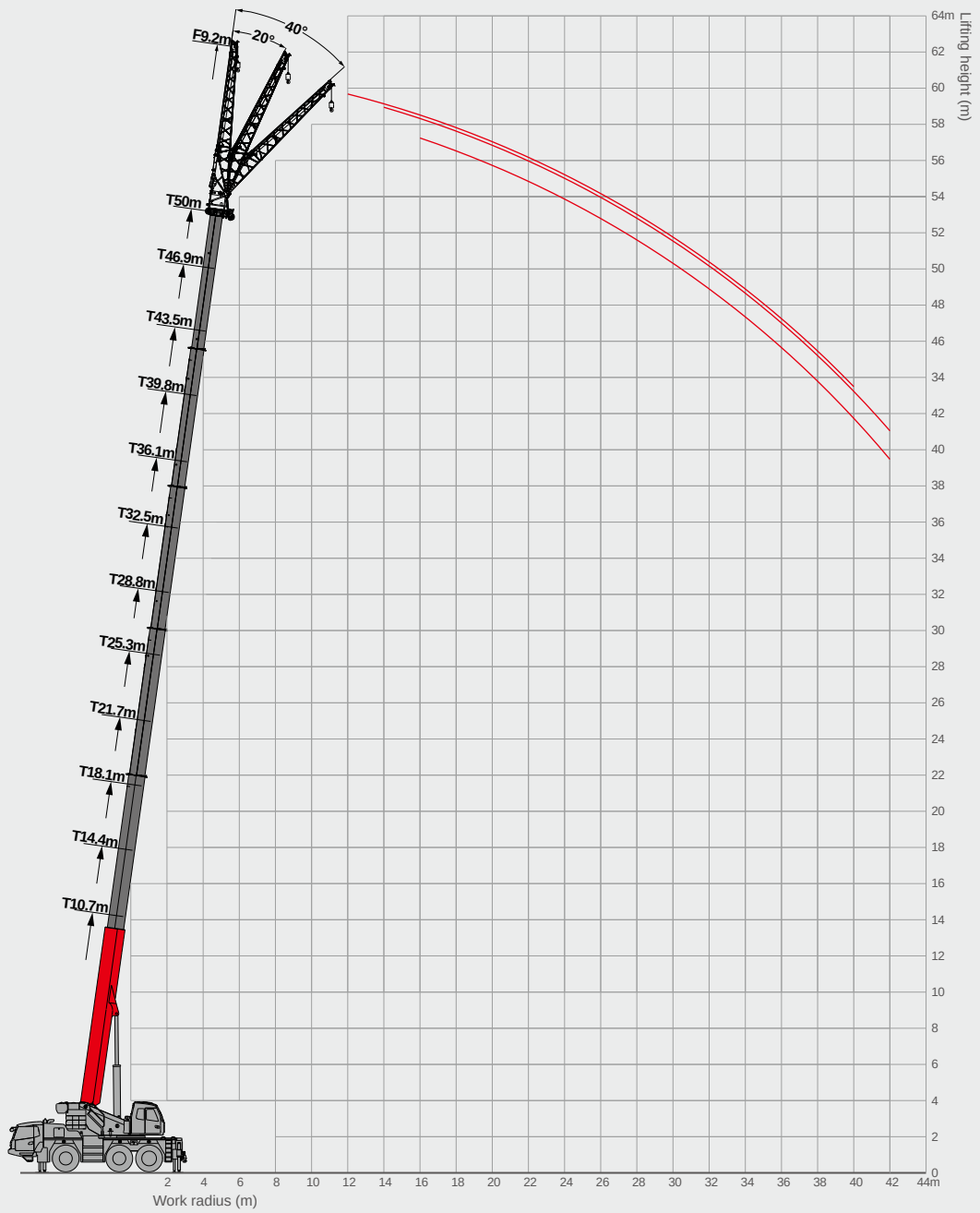
# Load Chart-T



Unit: metric ton

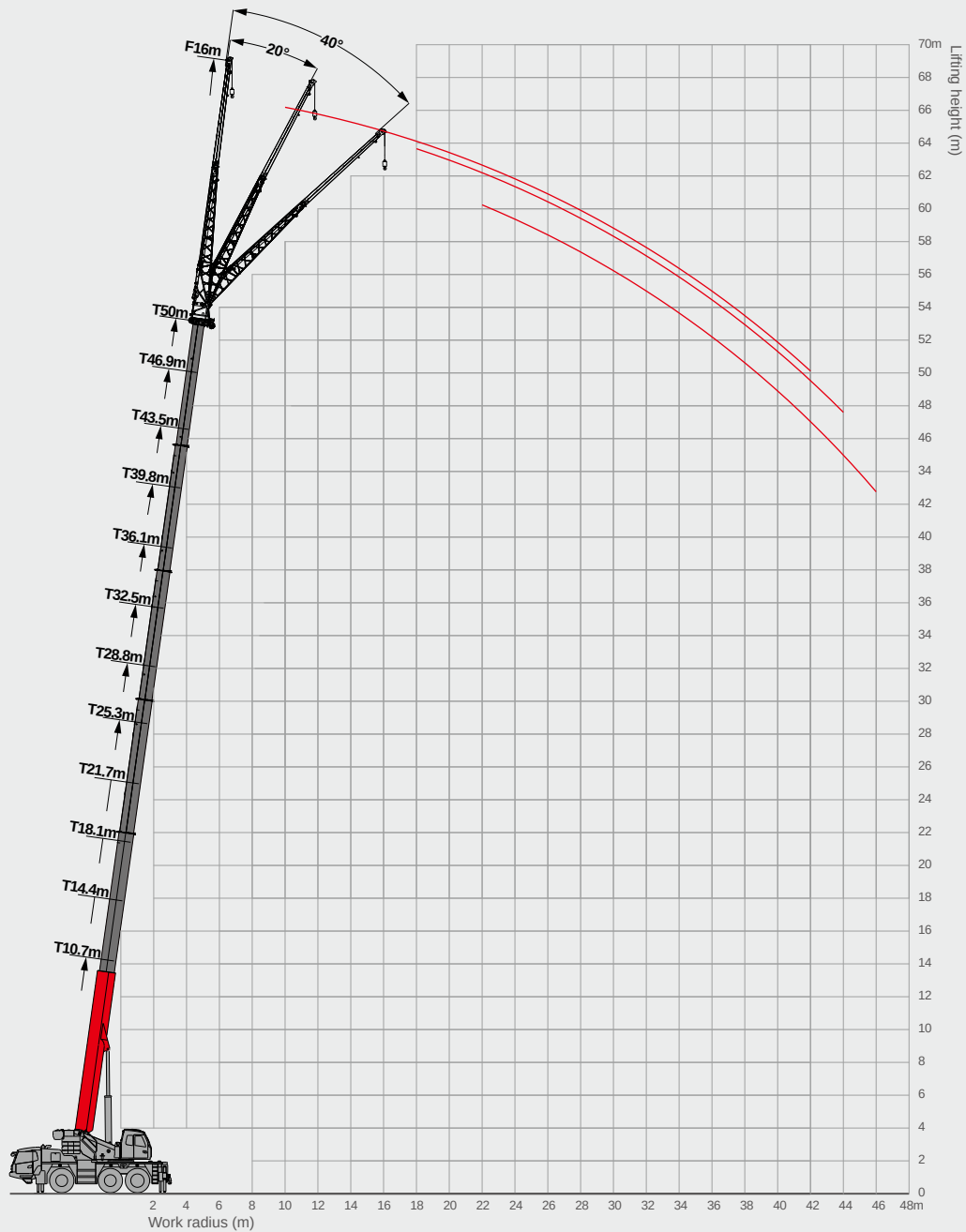
Radius (m)	10.7	14.4	18.0	21.7	25.3	28.8	32.4	36.1	39.7	43.3	46.8	50	Radius (m)
3	47.1												3
3.5	43.6	41.7											3.5
4	40.4	38.7	37.7										4
4.5	32.6	33.5	33.9	31									4.5
5	26.4	27.3	27.7	28.4									5
6	18.9	19.6	20	20.6	20.5	19.8	18.3						6
7	14	15.2	15.8	15.9	15.8	16.2	15.8	15.5					7
8		11.8	12.3	12.4	12.9	12.7	12.8	12.8	12.1				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	6.4	10
11		6.4	6.9	7.3	7.4	7.5	7.4	7.4	7.1	7	6.7	6.4	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								0.8	0.7				28
29								0.7					29

# 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

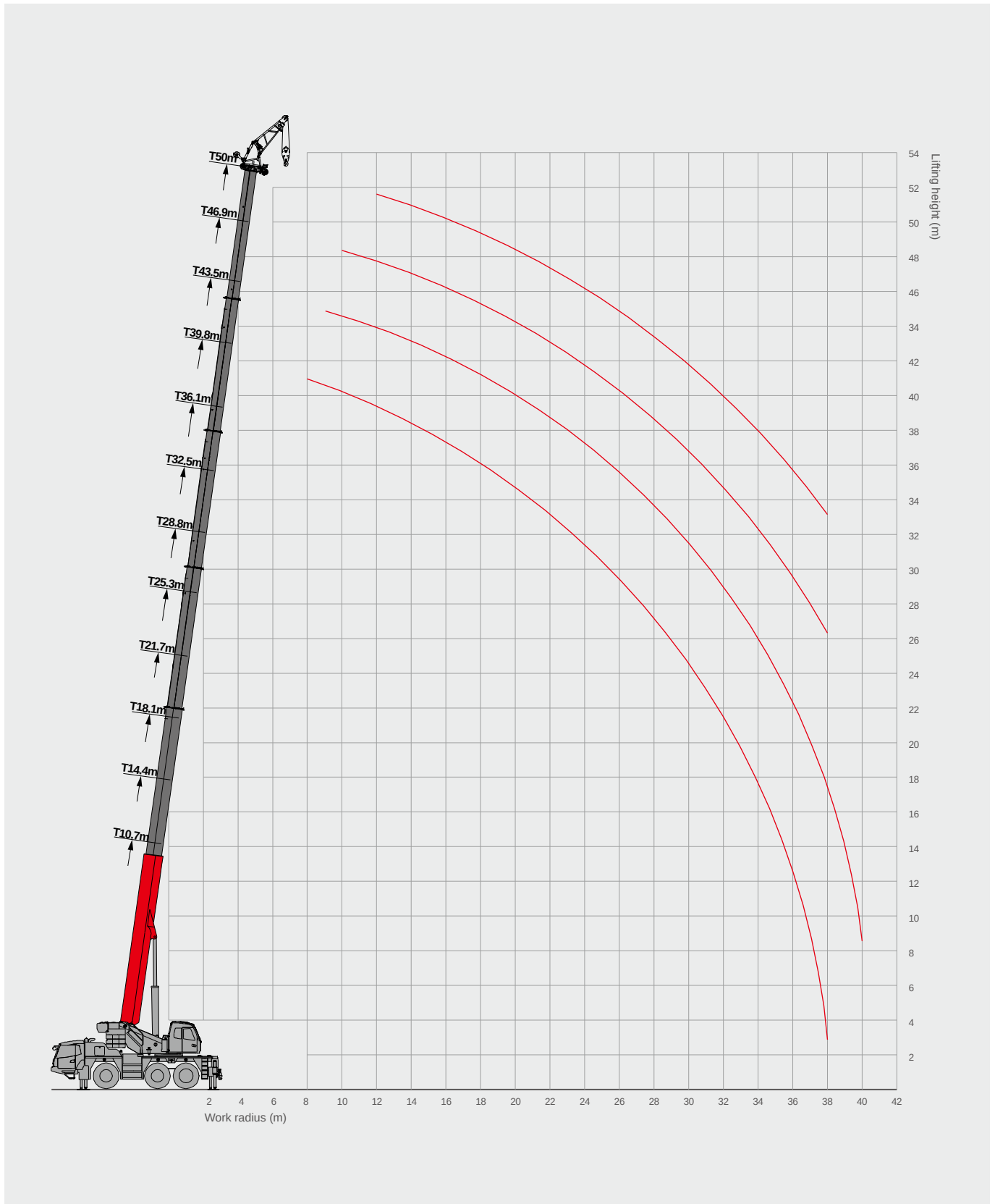


Unit: metric ton

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)	39.4	43.1	46.8	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)	39.4	43.1	46.8	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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