SANY®

SPECIFICATION

300t

81m

120m (with superlift)

SAC3000S8

SANY ALL TERRAIN CRANE

QUALITY CHANGES THE WORLD

crane.sanyglobal.com

V1.2

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.

SANY CRANE


SANY
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SANY

SAC3000S8

SANY ALL TERRAIN CRANE
300 TON LIFTING CAPACITY

Maximized Capacity and Efficiency

8-section 81m boom of single plate boom head, delivering incomparable capacity. Maximum 40m jib with maximum hook height of 120m, adaptable to more working conditions.
Full counterweight is 90t which can be mounted and removed by the crane itself, minimizing time and labor cost.
Perfect powertrain: BENZ OM460LA.E3A engine + ZF automatic transmission + Kessler transfer case + Kessler axles.
5-axle all-terrain chassis, H-type outriggers, all-wheel steering, 6 steering modes, ensuring optimal travel flexibility.
Low-noise and energy-saving mechanical single-engine driving, with maintenance cost reduced by 35%.
The self-removable superlift device adopts single rope, requiring no movable pulley, ensuring more convenient assembly and maintenance. The use of stable tensioning technology further raises assembly efficiency by 20%.

Optimal Control

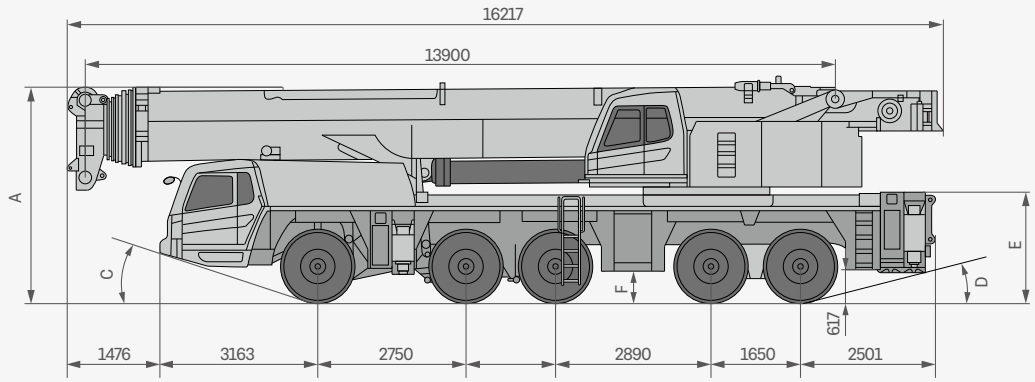
Smart CAN-BUS data communication: IFM controller, I/O module, Emagic display, and Danfoss sensor are integrated in the CAN system featuring high speed data transmission within 20ms.
Smart fault diagnosis: Intelligent operation controller and BCM controller function precise locating of faults, making maintenance more convenient.
Smart monitor and Big Data Management: ROOTCLOUD fleet management collects and analyze machine mobility and working conditions.
Safety equipment: SANY load moment indicator, devices for overload, over hoisting-down, over winding risks.
Cabling: Centralized distribution box and HARTING connector, IP grade 67, featuring high reliability and easy maintenance.

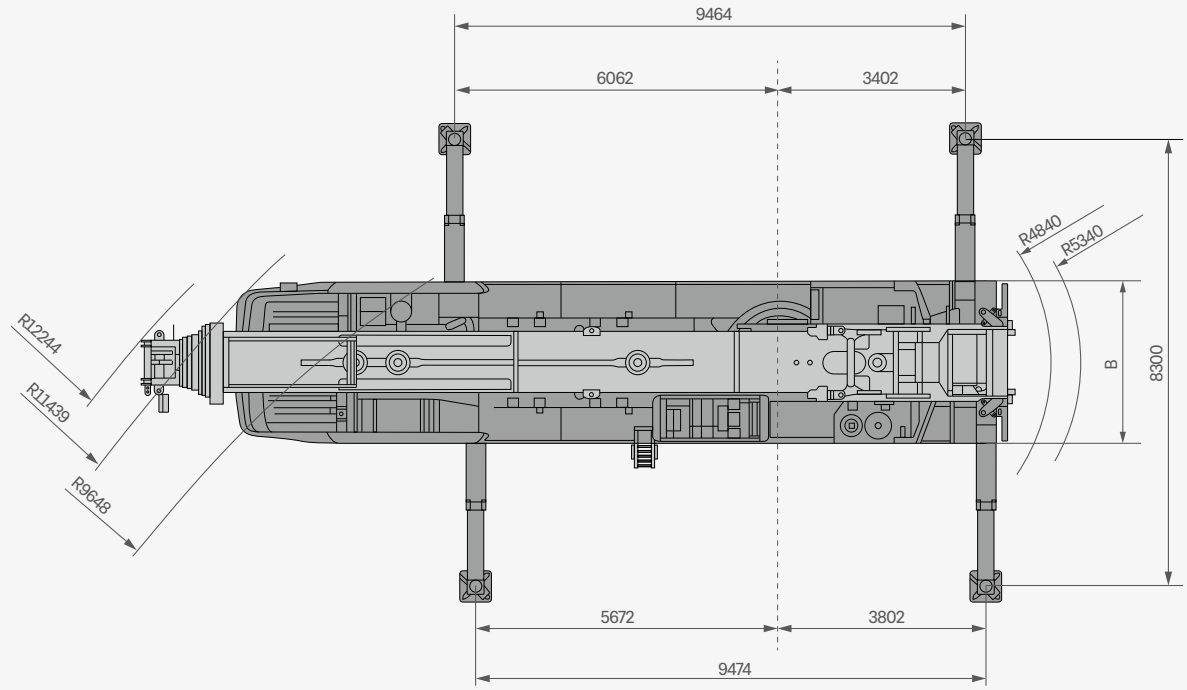
Reliable Hydraulics

Main valve: Intelligent flow distribution of stepped speed and displacement, saving energy by 20%.
Boom telescoping: New single cylinder pinning reduces boom shock acceleration by 50%.
Slewing balance: Closed-type slewing piston pump and exclusive patented slewing buffer enhance operation smoothness and inching mobility.
Winch balance: Inching and smooth hook fall.

Overall Dimensions

On-road traveling





Tire size	A	B	C	D	E	F
Unit	mm	mm	°	°	mm	mm
385	4000	3000	17	12	2050	500
445	4000	3000	19.9	13.2	2100	550

Technical Specification

CATEGORY	ITEM		UNIT	VALUE
CAPACITY	Max. lifting capacity		t	300
WEIGHT	Gross weight		kg	71600
POWER	Engine model		-	OM460LA.E3A
	Max. engine power		kW/rpm	360/1800
	Max. engine torque		N·m/rpm	2200/1300
DIMENSIONS	Overall length		mm	16217
	Overall width		mm	3000
	Overall height		mm	4000
TRAVEL	Max. travel speed		km/h	80
	Steering radius	Min.steering radius	m	10
		Min.steering radius of boom tip	m	12
	Wheel formula		-	10×8×10
	Approach angle		°	17
	Departure angle		°	12
	Max.gradeability		-	43
	Fuel consumption per 100km		L	80
MAIN PERFORMANCE	Min. rated lifting radius		m	3
	Boom sections (Qty.)		-	8
	Boom shape		-	Ellipse
	Max.lifting moment	Basic boom	kN·m	8080
		Full-extension boom	kN·m	3360
		Full-extension boom + jib	kN·m	1800 (with superlift)
	Boom length	Basic boom	m	13.8
		Full-extension boom	m	81
		Full-extension boom + jib	m	120 (with superlift)
	Max.lifting height	Basic boom	m	13.8
		Full-extension boom	m	81
		Full-extension boom + jib	m	120 (with superlift)
	Outrigger span (Longitudinal × Transverse)		m	9.47×8.3
	Jib offset		°	0, 20, 40
AIRCONDITIONER	In operator's cab		-	Heating & cooling
	In driver's cab		-	Heating & cooling

Technical Specification

Hook

Rated loa /t	Number of sheaves	Rope rate	Hook weight/kg
○ 160	9	19	2065
○ 125	7	15	1491
● 80	3	7	693
○ 32	1	3	504
● 12.5	0	1	270

● Standard ○ Optional

Operations

Item		Max.single rope lifting speed (empty load)	Rope diameter/length	Max.single line pull
Main winch		125m/min	22mm/410m	105kN
Slewing speed		1.5r/min		
Full luffing up/down time of boom		65s/120s		
Full extension/retraction time of boom		850s/850s		
Outrigger jack	Retraction	50s		
	Extension	50s		
Outrigger beam	Retraction	50s		
	Extension	50s		

Crane Introduction

Carrier

Driver's cab

- Independently developed by Sany, it is of new steel structure, enabling high damping and sealing performance. It is configured with outward opening doors on both sides, air-suspension driver seat and passenger’ s seat, adjustable steering wheel, wide-angle rearview mirror, comfortable driver seat headrest, antifogging fan, HVAC, stereo radio, and a complete set of controls and instruments, creating a more comfortable, safe and user-friendly driving environment.

Carrier frame

- Designedand manufactured by Sany, it is anti-torsion box structure welded by fine-grained high-strength steel plates with strong load-bearing capacity.

Engine

- Model: 6-cylinder diesel, make Mercedes-Benz, watercooled, conforming to EU Stage III A standard..
- Output power: 360kW/1800rpm.
- Max. torque: 2200N·m/1300rpm.
- Fuel reservoir capacity: 500L.

Transmission

- German ZF AMT (with hydraulic retarder to run easily on long-downhill path), with 12 forward gears and 2 reverse gears.

Axle

- Kessler axles are adopted, with all axles available for steering, and axles 1, 2, 4 and 5 for driving. Axles 1 and 2 are equipped with linkage-feedback hydraulic power steering system, and axles 3, 4 and 5 are equipped with electro-hydraulic steering system, providing steering control assist and several special steering modes for your option, and ensuring nimble steering and flexible control.

Suspension system

- All axles adopt height-adjustable hydro-pneumatic suspension with hydraulic lock. The suspension stroke is 145mm, and has such modes including suspension, rigid locking, automatic leveling, vehicle lifting/lowering to adapt to various harsh working conditions and road surfaces, ensuring good NVH and lateral stability, and making the driving more comfortable.

Steering

- Servo power steering gear, dual-circuit hydraulic power steering system with emergency steering pump.
- 6 steering modes: 1) on-road steer (default); 2) all-wheel steer; 3) crab; 4) reduced swing-out steer; 5) independent rear axle steer; 6) rear axle lock steer.

Tires

- 11 Techking 385/95R25 radial tires.

Wheel formula

- 10 × 8× 10.

Brake

- Parking brake: The parking brake acts on axles 2-5 by the accumulator.
- Service brake: All wheels employ air servo brakes, forming a dual-circuit braking system. Disc brake is applied for all wheels.
- Auxiliary brake: The auxiliary brake is realized by transmission hydraulic retarder, engine brake and exhaust brake, reducing the wear of brake components, and saving the operation cost.

Outrigger

- H-shaped outriggers with a longitudinal and transverse span of 9.47m × 8.3m and automatic leveling function are equipped, and they are extended and retracted by the fully hydraulic horizontal/vertical outrigger cylinders.

Electrical system

- Modern data bus system, 24V DC power supply, and 2 battery packs with a single capacity of 180AH are provided, allowing for power cutoff of chassis.
- The chassis adopts CAN bus system, multi-functional centralized display system with low power consumption, and LCD screen with contrast adjustable.

Crane Introduction

Operator's cab

- With the angle adjustable within 0°~20°, it adopts the corrosion-resistant steel plate, and is equipped with fullcoverage softening interior decoration, panoramic skylight, adjustable seat and other user-friendly designs,making operation more comfortable and easier. The moment limiter display is configured to realize the coordination of the console and the operation display system, so that all working condition data can be clear at a glance.

Boom & telescoping system

- Boom: 8-section boom of oval cross section made of fine-grained high-strength steel plate, with a full- extension length of 81m.
- Jib: 36m long jib of mechanical luffing is installed as standard, with offsets of 0°/20°/40° available; hydraulic luffing is optional.
- Telescopic mechanism: The independent hydraulic driving telescopic mechanism allows for a full extension/retraction time down to 750s, more efficient, safe and reliable.

Hoist

- The main winch adopts an electric proportional variable plunger motor, providing good hoisting micromobility and stability.

Luffing system

- The self-weight luffing down system is more energy saving. The single cylinder + front hinged support arrangement makes the luffing more labor-saving and improves the stressing condition of the boom; an electric proportional control balance valve is adopted.

Hydraulics

- Key hydraulic elements including main pump, slewing pump, main valve, winch motor and balance valve are of high quality, ensuring the stability and reliability of the hydraulic system; the accurate parameter matching further improves the operation performance.
- Electric proportional displacement piston pump is applied, and the pump displacement is adjusted in realtime by changing the opening of electric control lever,realizing high-precision flow control and reducing the energy consumption.
- Innovative dual-pump shunt/confluence main valve enables higher dual-pump confluence efficiency in case of single action and better dual-pump shunt control in case of combined actions.
- Self-weight compensated luffing down hydraulic system is adopted, ensuring better luffing-down mircomobility and stability.
- Single-cylinder bolt telescoping system is applied for the boom.
- The slewing system is of closed type, and the flow rate and the flowing direction are changed by adjusting the variable pump swash plate, providing better slewing mircomobility and stability.

Slewing platform

- Independently designed by Sany, it is made of finegrained high-strength steel plates, with optimized structure.

Slewing

- The slewing system is applied with the Rexroth piston main pump, and supports 360° slew at a speed of 0~1.5r/min; the electric proportional closed hydraulic circuit and electric proportional pedal are applied for emergency braking.

Control system

- The crane is electronically controlled through the LMI system (PLC control); two multi-directional levers can return to the original position automatically; the movement of the crane is adjusted by regulating the hydraulic pump, and the speed is adjusted by regulating the speed of the engine.

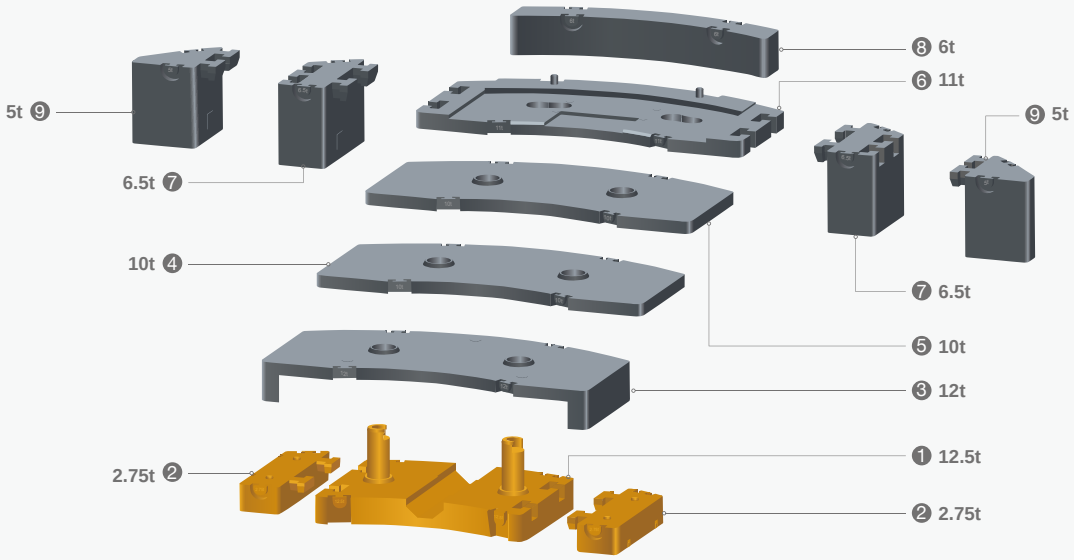
Counterweight

- 90t combined counterweights are applied, and traveling with 18t counterweights is allowed; the loading and unloading of counterweight is realized by wireless remote control.

Safety equipment

- LMI:The load moment indicator is developed by using the mechanics analysis method based on the hoisting mechanical model, and the rated hoisting accuracy is controlled within ±5% through online no-load calibration, enabling all-round protection for the hoisting operations; in case of overloading operations, the system will send an alarm automatically to provide safety guarantee for operations.
- Hydraulic balance valve, overflow valve, two-way hydraulic lock and other elements provided for the hydraulic system, ensuring good stability and reliability of the hydraulic system.
- 3-circle rope protector of main winch to prevent rollover of wire rope.
- Height limit switch mounted at tip of boom and jib to prevent over-hoisting of the wire rope.
- Anemometer mounted at tip of boom to check if the wind speed is out of the allowable operating range of the crane.

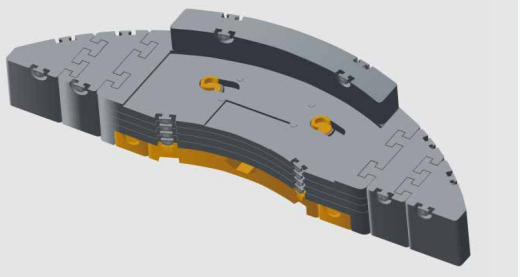
Counterweight Combinations



Total weight (t)	Combinations
18	① + ②
30	① + ② + ③
40	① + ② + ③ + ④
50	① + ② + ③ + ④ + ⑤
61	① + ② + ③ + ④ + ⑤ + ⑥
74	① + ② + ③ + ④ + ⑤ + ⑥ + ⑦
80	① + ② + ③ + ④ + ⑤ + ⑥ + ⑦ + ⑧
90	① + ② + ③ + ④ + ⑤ + ⑥ + ⑦ + ⑧ + ⑨

90t full counterweight provides eight combinations.
Self assembly and disassembly require no assisting crane.

Block	Weight (t)
①	12.5
②	2.75 × 2
③	12
④	10
⑤	10
⑥	11
⑦	6.5 × 2
⑧	6
⑨	5 × 2



Fixed Jib Assembly

Fixed jib

12.2m

19.2m

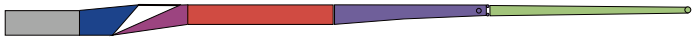
29m

36m

Boom extension with fixed jib

23.2m

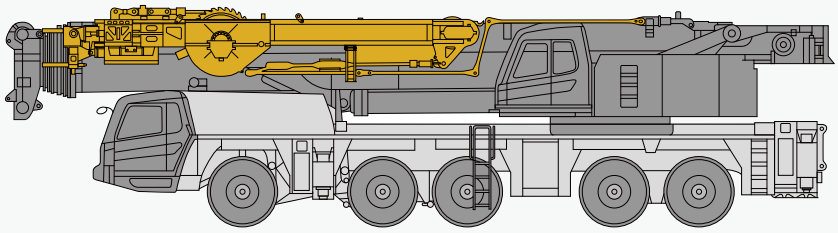
33m

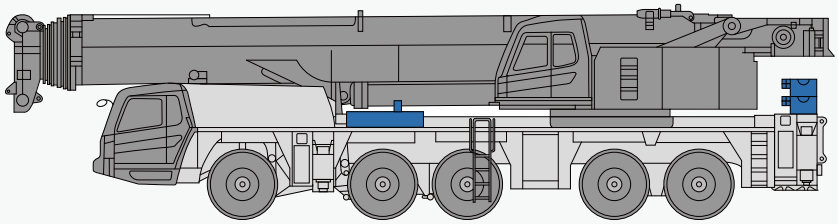


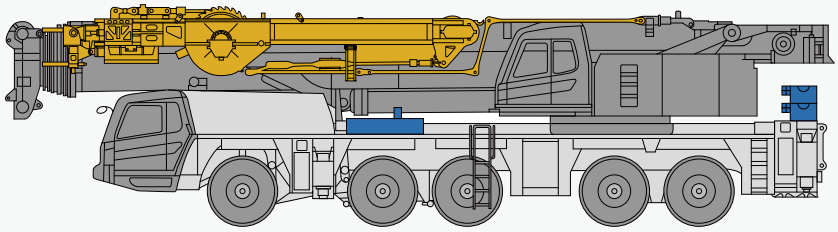
40m

Transport Solutions

Various traveling modes available.
On-road travel: axle load ≤13t with boom sections 4~8 removed.
On-site travel: all boom sections carried, 1/2/3 axle load ≤16t, 4/5 axle load ≤13t.

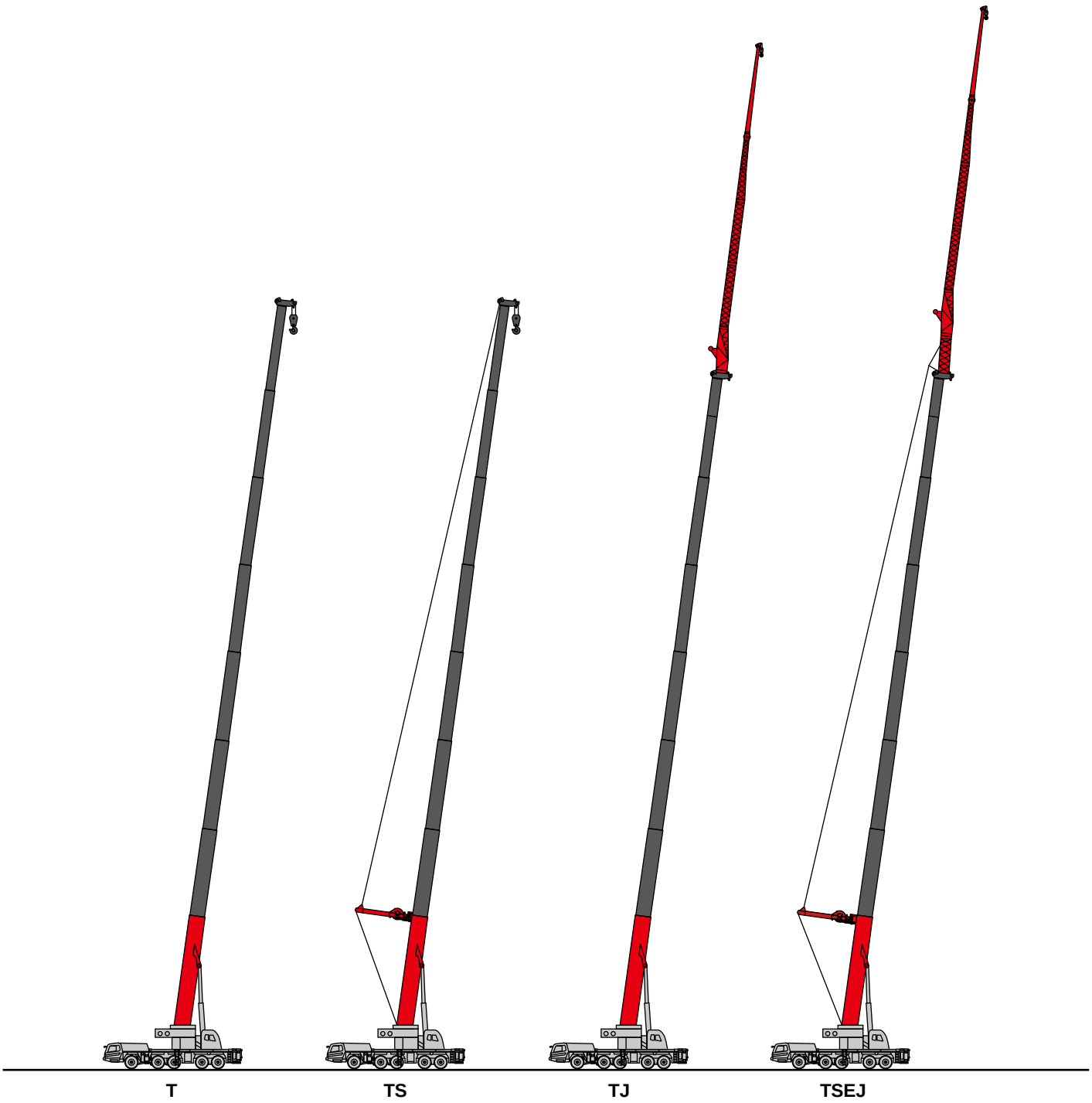




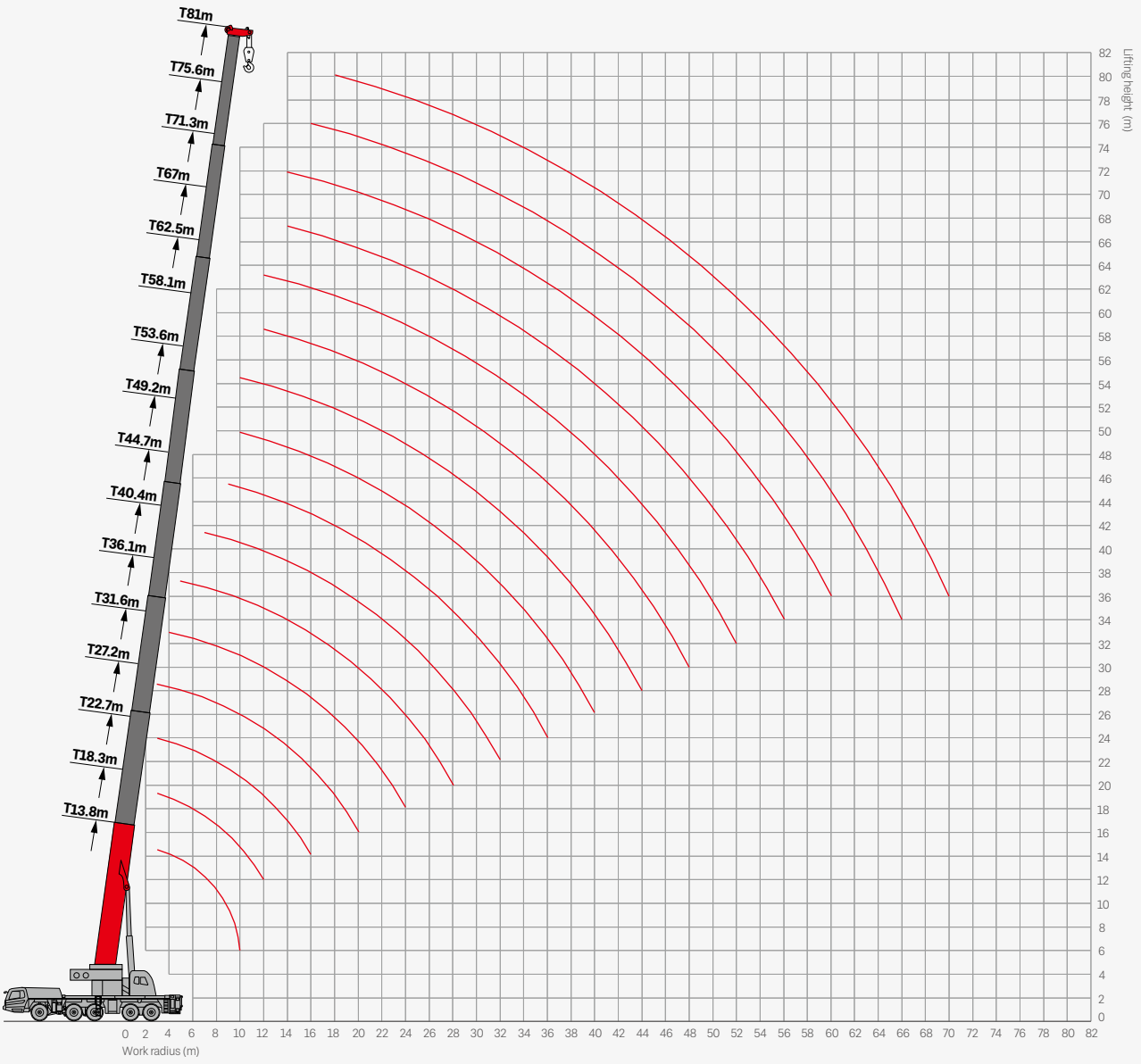


Working Conditions & Code Description

- T - Telescopic boom
- S - Superlift device
- J – Fixed jib
- E - Boom extension



Operating Range - T



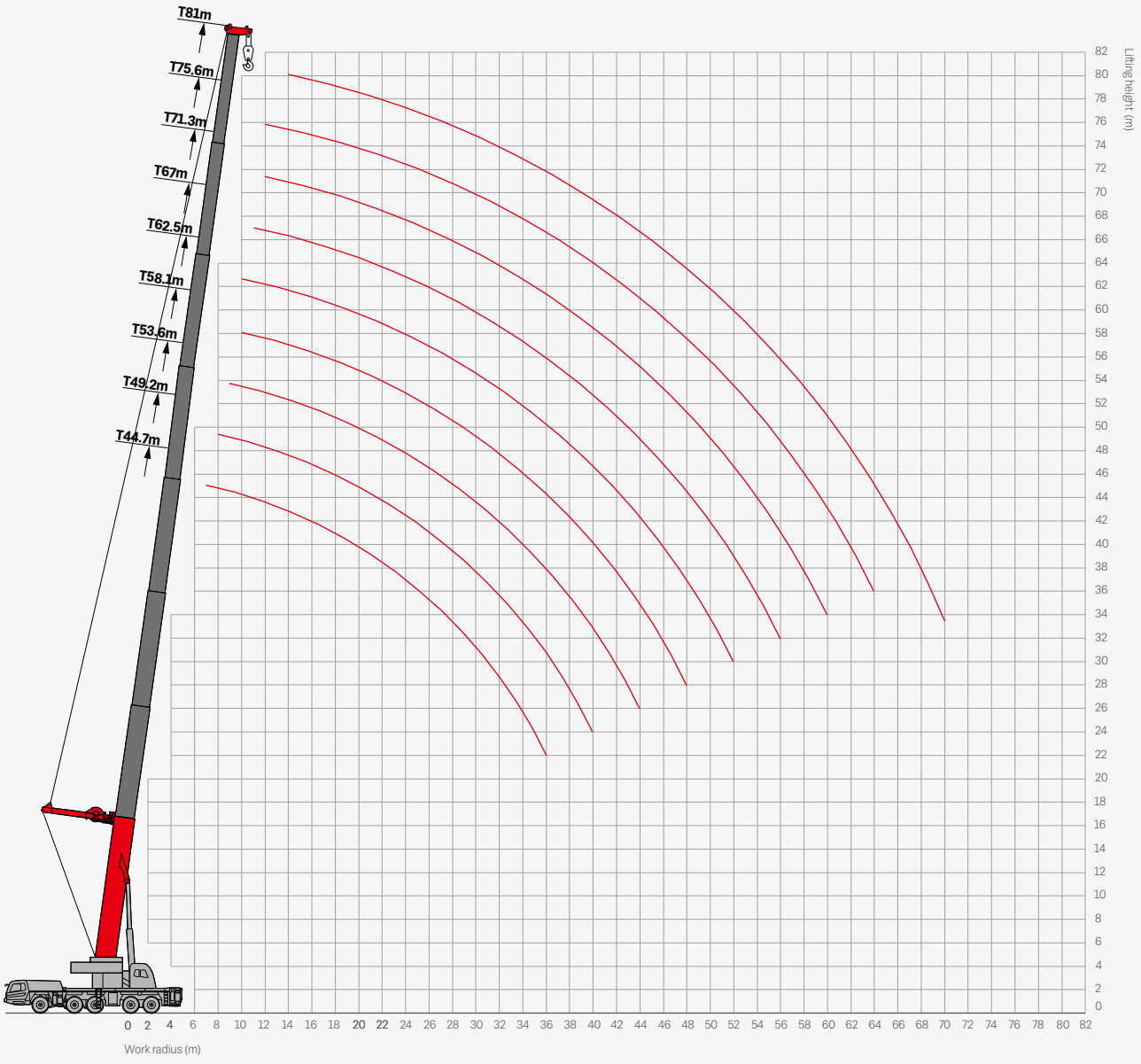
Load Chart - T

Unit: t

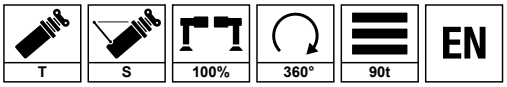
Radius (m)	13.8	18.3	22.7	27.2	31.6	36.1	40.4	44.7	49.2	53.6	58.1	62.5	67.0	71.3	75.6	81.0	Radius (m)
2.5	300*																2.5
3	150.0	150.0	141.0	126.0													3
3.5	145.0	145.0	141.0	126.0													3.5
4	145.0	140.0	136.0	126.0	111.0												4
4.5	140.0	135.0	129.0	126.0	111.0												4.5
5	135.0	128.0	123.0	120.8	111.0	101.0											5
6	120.0	115.0	111.0	110.3	101.0	95.0											6
7	108.1	103.0	101.0	98.7	84.2	81.9	75.4										7
8	101.0	92.9	91.7	90.3	78.2	76.9	72.7										8
9	88.5	85.5	84.5	83.0	73.4	72.0	67.2	52.4									9
10	78.6	77.3	76.2	76.7	72.7	66.3	63.5	50.6	49.2	43.1							10
11		71.4	69.0	68.0	65.7	60.6	59.7	50.4	47.2	40.7	33.9						11
12		64.1	64.2	61.8	59.8	55.5	55.0	48.5	44.5	38.9	32.5	27.3					12
14		55.6	52.5	52.5	50.8	51.5	51.5	47.6	43.1	38.1	29.7	25.6	23.6	19.8			14
16			44.0	46.9	44.1	44.8	44.9	43.3	38.6	35.0	29.1	23.8	22.4	19.0	15.2		16
18			39.5	39.0	39.8	40.7	39.8	39.6	34.8	31.9	27.1	23.7	21.0	18.1	14.7	11.6	18
20			33.3	33.0	33.8	34.7	35.6	36.6	31.7	29.3	25.0	22.1	19.9	17.3	14.3	11.1	20
22				28.9	29.0	29.9	30.8	31.7	28.7	26.8	23.3	20.7	18.4	16.5	13.8	10.9	22
24				24.9	25.2	26.1	27.0	27.9	27.1	24.4	21.7	19.4	17.1	15.7	13.2	10.7	24
26					22.3	22.9	23.8	24.7	23.9	22.2	20.4	18.1	16.1	14.8	12.6	10.4	26
28					19.6	20.3	21.1	22.4	21.6	21.0	19.0	17.0	15.1	14.0	12.0	10.2	28
30						18.1	19.1	20.2	18.9	18.7	17.4	16.0	14.3	13.2	11.5	9.9	30
32						16.2	16.9	18.0	17.0	16.9	16.8	14.9	13.5	12.5	11.0	9.5	32
34							15.2	16.1	15.2	14.9	15.1	13.9	12.8	11.7	10.5	9.1	34
36							13.6	14.6	13.6	13.3	13.6	13.6	12.1	11.1	10.0	8.7	36
38								13.2	12.2	11.9	12.0	12.2	11.2	10.5	8.9	8.4	38
40								12.0	11.0	10.7	10.8	11.0	10.5	9.9	8.6	8.1	40
42									10.0	9.6	9.7	9.9	9.8	9.4	8.2	7.8	42
44									9.0	8.7	8.7	8.9	9.1	9.0	7.8	7.4	44
46									8.1	7.8	7.8	7.9	8.2	8.2	7.4	7.1	46
48										7.0	6.9	7.2	7.7	7.8	7.0	6.4	48
50										6.2	6.3	6.4	6.7	7.2	6.5	6.1	50
52											5.6	5.7	6.1	6.4	6.3	5.8	52
54											4.9	5.1	5.4	5.8	6.2	5.5	54
56												4.5	4.8	5.2	5.7	5.1	56
58												3.9	4.3	4.7	5.1	4.8	58
60														4.1	4.6	4.7	60
62															4.1	4.2	62
64															3.6	3.7	64
66															3.2	3.2	66
68																2.8	68
70																2.6	70
Rope rate	14	14	14	12	11	10	8	5	5	4	4	3	3	2	2	2	Rope rate
Telescoping status (%)																	
2nd boom	0	0	46	46	46	46	46	46	92	92	92	92	92	92	92	100	2nd boom
3rd boom	0	46	46	46	46	46	46	46	46	92	92	92	92	92	92	100	3rd boom
4th boom	0	0	0	46	46	46	46	46	46	46	92	92	92	92	92	100	4th boom
5th boom	0	0	0	0	46	46	46	46	46	46	46	92	92	92	92	100	5th boom
6th boom	0	0	0	0	0	46	46	46	46	46	46	46	92	92	92	100	6th boom
7th boom	0	0	0	0	0	0	46	46	46	46	46	46	46	92	92	100	7th boom
8th boom	0	0	0	0	0	0	0	46	46	46	46	46	46	46	92	100	8th boom

Remark:
1. Ratings listed are given when counterweight is moved to the rear.
2. Ratings listed are the max. capacity when the crane is in a level condition on solid ground or surface.
3. Ratings above are calculated with hooks and lifting slings considered.

Operating Range - TS



Load Chart - TS

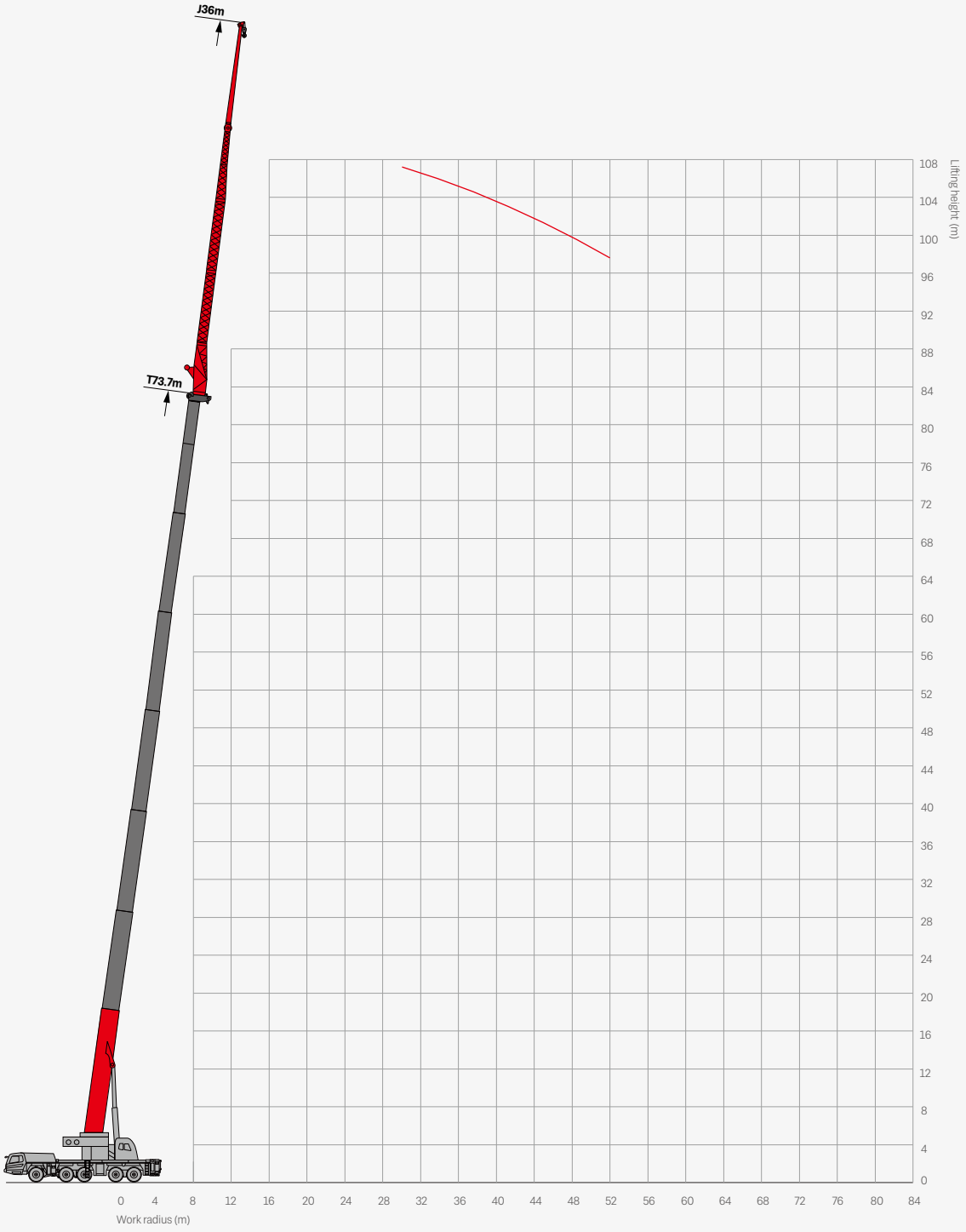


Unit: t

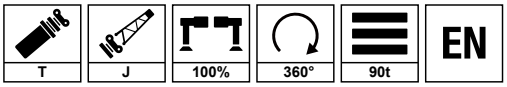
Radius (m)	44.7	49.2	53.6	58.1	62.5	67	71.3	75.6	81	Radius (m)
9	62.1									9
10	59.7	57	51.9							10
11	57.5	55.2	50.9	42.5						11
12	55.5	53.5	49.4	41.6	37.5					12
14	53.2	51.5	47.3	38.6	35.4	31.8	26.9			14
16	48.9	46.8	43.6	38	33.3	30.4	26	21.8	17.3	16
18	41.6	39.5	39.6	35.4	31.5	28.9	25	21.2	16.8	18
20	35.7	34.1	34.2	33.3	30.3	27.5	24.1	20.6	16.4	20
22	32.9	32.2	29.7	29.5	28.1	26	23.1	20.6	16.2	22
24	28.6	27.9	27.8	25.9	25.5	24.5	22	19.9	16.1	24
26	25.1	24.4	24.3	24.5	23.5	22.7	21.4	19.1	15.6	26
28	22	21.4	21.3	21.4	21.1	20.4	20.2	18.2	15.1	28
30	19.5	18.9	18.8	19	19.3	18.8	18.3	17.4	14.7	30
32	17.3	16.7	16.5	16.7	17	17.5	16.6	16.1	14	32
34	15.4	14.8	14.7	14.9	15.2	15.6	15.1	14.9	13.4	34
36	13.8	13.1	13	13.2	13.5	14	14.4	13.8	12.7	36
38	12.3	11.7	11.6	11.8	12	12.5	12.9	12.7	12.2	38
40	10.9	10.4	10.3	10.5	10.7	11.1	11.7	12	11.6	40
42		9.2	9.1	9.3	9.5	10	10.4	11	10.8	42
44		8	7.9	8.1	8.5	8.9	9.4	10.3	10.5	44
46		7	7	7.2	7.5	7.9	8.4	8.9	9	46
48			6.1	6.3	6.7	7	7.6	8	8	48
50			5.2	5.4	5.8	6.3	6.7	7.1	7.2	50
52				4.6	5	5.5	6	6.3	6.4	52
54				3.9	4.2	4.7	5.2	5.6	5.7	54
56					3.5	4	4.6	5	5.1	56
58					2.9	3.4	3.9	4.4	4.4	58
60						2.8	3.3	3.8	3.9	60
62						2.2	2.8	3.3	3.4	62
64							2.3	2.8	2.9	64
66									2.4	66
68									2	68
70									1.6	70
Rope rate	7	7	6	5	4	4	3	3	2	Rope rate

Remark:
1. Ratings listed are given when counterweight is moved to the rear.
2. Ratings listed are the max. capacity when the crane is in a level condition on solid ground or surface.
3. Ratings above are calculated with hooks and lifting slings considered.

Operating Range - TJ



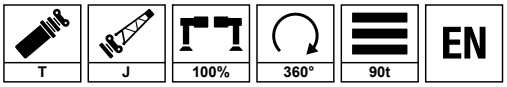
Load Chart - TJ



Unit: t

Radius (m)	73.7 12.2			80.3 12.2			73.7 19.2			Radius (m)
	0°	20°	40°	0°	20°	40°	0°	20°	40°	
20	8									20
22	7.9	6.7					5.1			22
24	7.8	6.5	5.4	5.9			5	4		24
26	7.7	6.3	5.3	5.9	5.1		4.9	3.9		26
28	7.4	6.1	5.2	5.9	5	4.4	4.8	3.8	3	28
30	7.1	5.9	5.1	5.9	4.9	4.3	4.7	3.7	3	30
32	6.9	5.7	5	5.9	4.8	4.2	4.6	3.6	2.9	32
34	6.7	5.5	4.9	5.7	4.7	4.1	4.4	3.5	2.9	34
36	6.5	5.3	4.8	5.5	4.6	4	4.2	3.4	2.8	36
38	6.3	5.2	4.7	5.3	4.5	4	4	3.3	2.8	38
40	6.1	5.1	4.6	5.1	4.4	3.9	3.8	3.2	2.7	40
42	5.9	5	4.5	4.9	4.3	3.9	3.7	3.1	2.7	42
44	5.7	4.9	4.4	4.7	4.2	3.8	3.6	3	2.6	44
46	5.5	4.8	4.3	4.5	4.1	3.8	3.5	2.9	2.6	46
48	5.3	4.7	4.3	4.3	4	3.7	3.4	2.8	2.5	48
50	5.1	4.6	4.2	4.1	3.9	3.7	3.3	2.8	2.5	50
52	4.9	4.5	4.2	3.9	3.8	3.6	3.2	2.7	2.4	52
54	4.7	4.4	4.1	3.7	3.6	3.5	3.1	2.7	2.4	54
56	4.5	4.3	4.1	3.6	3.5	3.4	3	2.6	2.3	56
58	4.3	4.2	4	3.5	3.4	3.3	2.9	2.6	2.3	58
60	4.1	4	3.9	3.4	3.3	3.2	2.8	2.5	2.2	60
62	3.9	3.8	3.7	3.3	3.2	3.1	2.7	2.5	2.2	62
64	3.6	3.5	3.5	3.2	3.1	3	2.6	2.4	2.1	64
66	3.3	3.2	3.2	3	3	2.9	2.5	2.3	2.1	66
68	3	2.9		2.8	2.8	2.8	2.4	2.2	2	68
70	2.8			2.6	2.6	2.5	2.3	2.1	2	70
72				2.4	2.4	2.2	2.2	2		72
74				2.2	2.2		2.1			74
76				2						76
78										78
80										80
82										82
Rope rate	1									Rope rate

Load Chart - TJ



Unit: t

Radius (m)	80.3			73.7			80.3			73.7	Radius (m)
	19.2			29			29			36	
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	
20											20
22											22
24											24
26	3.6										26
28	3.6	3.1		3.1							28
30	3.6	3		3.1	2.3		2.6			1.7	30
32	3.6	3	2.5	3.1	2.3		2.6	2		1.7	32
34	3.6	2.9	2.5	3.1	2.2	1.7	2.6	2		1.7	34
36	3.6	2.9	2.4	3.1	2.2	1.7	2.5	2	1.5	1.7	36
38	3.6	2.8	2.4	3	2.1	1.7	2.5	1.9	1.5	1.7	38
40	3.6	2.8	2.3	2.9	2.1	1.7	2.5	1.9	1.5	1.6	40
42	3.6	2.7	2.3	2.8	2	1.6	2.4	1.9	1.5	1.6	42
44	3.6	2.7	2.2	2.7	2	1.6	2.4	1.8	1.4	1.6	44
46	3.5	2.6	2.2	2.6	1.9	1.6	2.4	1.8	1.4	1.6	46
48	3.4	2.6	2.1	2.5	1.9	1.6	2.3	1.8	1.4	1.5	48
50	3.3	2.5	2.1	2.4	1.8	1.5	2.3	1.7	1.4	1.4	50
52	3.2	2.5	2.1	2.3	1.8	1.5	2.2	1.7	1.3	1.3	52
54	3.1	2.4	2	2.2	1.7	1.5	2.1	1.7	1.3		54
56	3	2.4	2	2.1	1.7	1.5	2	1.6	1.3		56
58	2.9	2.3	2	2.1	1.6	1.4	1.9	1.6	1.3		58
60	2.8	2.3	1.9	2	1.6	1.4	1.9	1.5	1.2		60
62	2.7	2.2	1.9	1.9	1.5	1.4	1.8	1.5	1.2		62
64	2.6	2.2	1.9	1.8	1.5	1.3	1.8	1.4			64
66	2.5	2.1	1.8	1.7	1.4		1.7				66
68	2.4	2.1	1.8	1.6							68
70	2.3	2	1.8								70
72	2.2	2	1.7								72
74	2.1	1.9	1.7								74
76	1.9	1.8	1.7								76
78	1.7	1.6									78
80	1.5										80
82											82
Rope rate	1										Rope rate

Remark:
1. Ratings listed are given when counterweight is moved to the rear.
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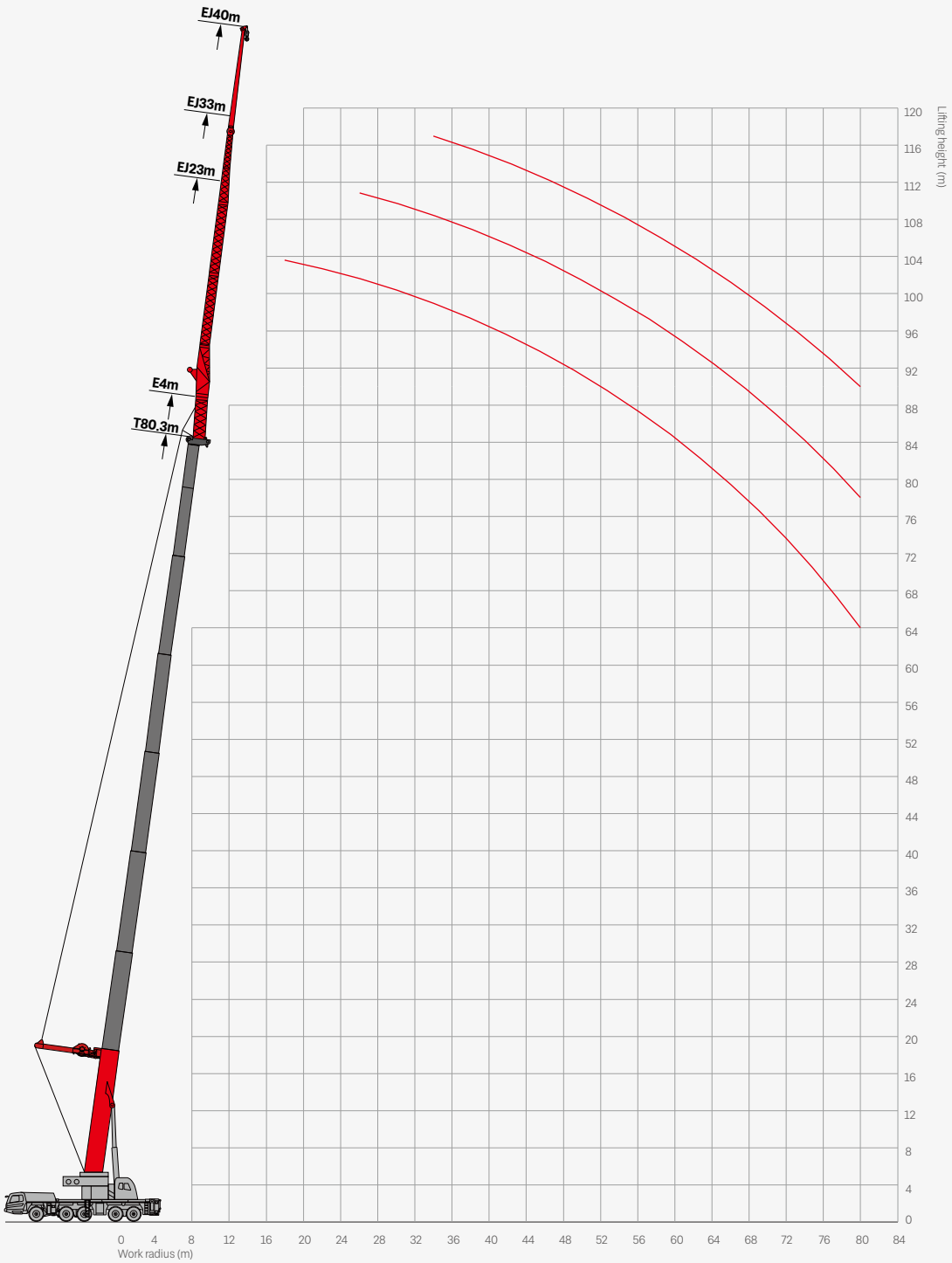
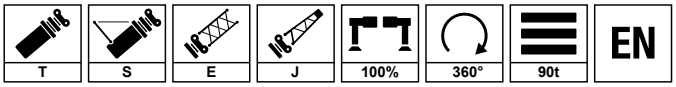
3. Ratings above are calculated with hooks and lifting slings considered.

Operating Range - TSEJ



Load Chart - TSEJ



Unit: t

Radius (m)	73.7	80.3	73.7	80.3	73.7	80.3	Radius (m)
	4	4	4	4	4	4	
	19	19	29	29	36	36	
	0°	0°	0°	0°	0°	0°	
16	6.6						16
18	6.3	5.3					18
20	6	5.1					20
22	5.8	4.9	5.1				22
24	5.6	4.8	5.1				24
26	5.4	4.7	5	4			26
28	5.2	4.6	5	4	3.7		28
30	5	4.5	4.9	4	3.7		30
32	4.8	4.4	4.8	4	3.7		32
34	4.6	4.3	4.7	3.9	3.7	2.7	34
36	4.4	4.2	4.6	3.9	3.6	2.7	36
38	4.3	4.1	4.5	3.9	3.6	2.7	38
40	4.2	4	4.4	3.9	3.6	2.7	40
42	4.1	3.9	4.3	3.8	3.6	2.7	42
44	4	3.8	4.2	3.8	3.5	2.7	44
46	3.9	3.7	4.1	3.8	3.5	2.6	46
48	3.8	3.6	4	3.8	3.5	2.6	48
50	3.7	3.5	3.9	3.7	3.4	2.6	50
52	3.6	3.4	3.8	3.6	3.3	2.6	52
54	3.5	3.3	3.7	3.5	3.2	2.6	54
56	3.4	3.2	3.6	3.4	3.1	2.5	56
58	3.3	3.1	3.5	3.3	3	2.5	58
60	3.2	3	3.4	3.2	2.9	2.5	60
62	3.1	2.9	3.3	3.1	2.8	2.5	62
64	3	2.8	3.2	3	2.7	2.4	64
66	2.9	2.7	3.1	2.9	2.6	2.3	66
68	2.8	2.6	3	2.8	2.5	2.2	68
70	2.6	2.4	2.8	2.7	2.4	2.1	70
72	2.4	2.2	2.6	2.5	2.3	2	72
74	2.2	2	2.4	2.3	2.2	1.9	74
76	1.9	1.8	2.2	2.1	2.1	1.8	76
78	1.6	1.5	1.9	1.8	1.9	1.7	78
80	1.3	1.2	1.6	1.5	1.7	1.6	80

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