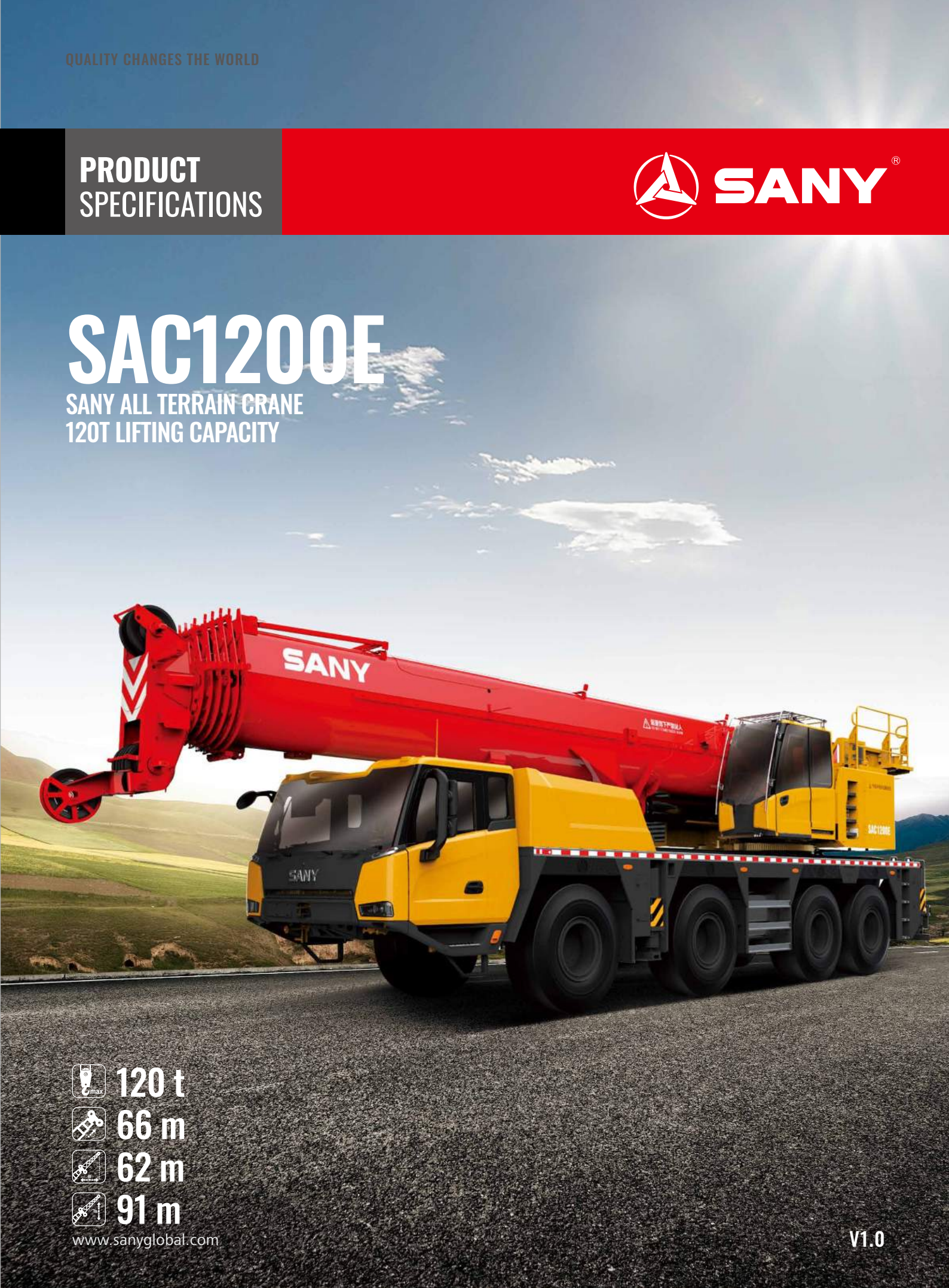
QUALITY CHANGES THE WORLD

PRODUCT
SPECIFICATIONS

SANY®

SAC1200E

SANY ALL TERRAIN CRANE
120T LIFTING CAPACITY



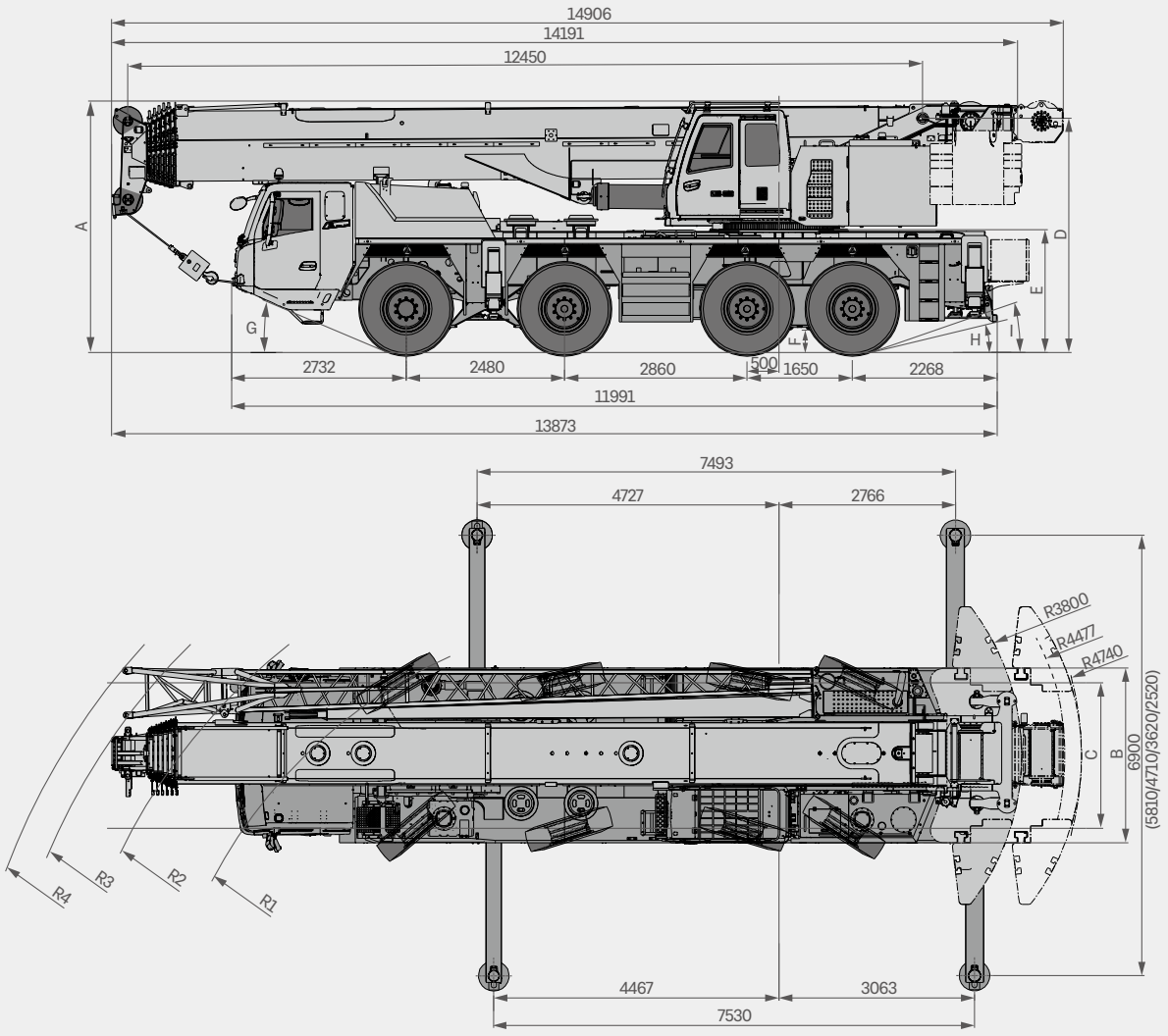
120 t
66 m
62 m
91 m

www.sanyglobal.com

V1.0

Overall Dimensions

Unit: mm



Tires	A	A	B	C	D	E	F	G	H	I	R1	R2	R3	R4
		100*												
Unit	mm	mm	mm	mm	mm	mm	mm	°	°	°	mm	mm	mm	mm
385/95R25 (14.00 R25)	3950	3850	2750	2337	3680	1876	300	22	12	18	7890	9365	10390	10910
445/95R25 (16.00 R25)	4000	3900	2750	2277	3730	1926	350	23	14	19	7850	9420	10385	10905
525/80R25 (20.5 R25)	4000	3900	2897	2367	3730	1926	350	23	14	19	7870	9320	10340	10855

Remark: The stroke of suspension cylinder : -100mm~+100mm.
* Lowered

Technical Specification

CATEGORY	ITEM		UNIT	VALUE
CAPACITY	Max. lifting capacity		t	120
WEIGHT	Gross weight		kg	48000
POWER (CHASSIS)	Engine model		-	OM471LA（EU Stage V)
	Max. engine power		kW/rpm	360/1600
	Max. engine torque		N·m/rpm	2400/1300
POWER (SUPERSTRUCTURE)	Engine model			OM934LA（EU Stage V)
	Max. engine power		kW/rpm	150/1800
	Max. engine torque		N·m/rpm	850/1200
DIMENSIONS	Overall length		mm	14200
	Overall width		mm	2750
	Overall height		mm	4000
TRAVEL	Max.travel speed		km/h	80
	Steering radius	Min.steering radius	m	7.85
		Min.steering radius of boom tip	m	7.85
	Wheel formula		-	8×6×8
	Min.ground clearance		mm	300
	Approach angle		°	22
	Departure angle		°	18
	Max.gradeability		%	59.5
	Fuel consumption per 100km		L	70
MAIN PERFORMANCE	Working temperature range		℃	-20~45
	Min.rated lifting radius		m	3
	Tail slewing radius		m	3.8/4.47/4.74
	Boom sections (Qty.)		-	7
	Boom shape		-	U shape
	Max.lifting moment	Basic boom	kN·m	3300
		Full-extension boom	kN·m	1708
		Max.combination of boom + jib	kN·m	720
	Boom length	Basic boom	m	12.45
		Full-extension boom	m	66
		Max.combination of boom + jib	m	91.7
	Max.lifting height	Basic boom	m	12.6
		Full-extension boom	m	66
		Max.combination of boom + jib	m	91
	Outrigger span (Longitudinal × Transverse)		m	7.49×6.9
	Jib adjustment		°	0, 20, 40
AIRCONDITIONER	In operator's cab		-	Heating & cooling
	In driver's cab		-	Heating & cooling

Technical Parameters

Axle Load

Axle load	Total	Drive	Tires	Counterweight	Hook block	Payload incl. rear storage box and tools
< 12t	48t	8 × 6	385/95R25 steel	-	0.25t	0.4t
< 12t	48t	8 × 8	385/95R25 steel	-	-	0.25t
< 12t	48t	8 × 6	445/95R25 steel	-	-	-
< 12t	48t	8 × 8	445/95R25 Alu	-	-	0.18t
< 12t	48t	8 × 6	525/80R25 Steel	-	-	-
< 14.5t	58t	8 × 8	445/95R25 Alu	9.3t	0.7t	0.5t
< 16.5t	66t	8 × 8	445/95R25 Alu	17.2t	0.7t	0.5t

Speed and Gradeability

Tire size	Min. speed	Max. speed	Max. gradeability
385/95R25 (14.00 R25)	1.9km/h	80km/h	59.5%
445/95R25 (16.00 R25)	2.1km/h	80km/h	56.5%
525/80R25 (20.5 R25)	2.1km/h	80km/h	56.5%

Operations

Item	Working speed	Rope diameter	Rope length	Max. single line pull
Main winch	0-120 m/min	19mm	280m	74kN
Auxiliary winch	0-120 m/min	19mm	250m	74kN
Slewing	0-1.8 r/min			
Luffing	Approx. 60s to reach 83°			
Telescoping	Approx. 550s from 12.5m to 66m			

Hook

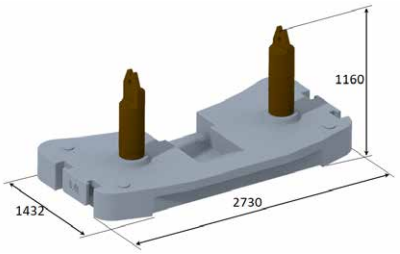
Type	Possible load with crane	Number of sheaves	Parts of lines	Weight	Remarks
QZG80.19S	70t	5	10	900kg	Double hook
QZG50.19S	49.8t	3	7	700kg	Double hook
QZG25.19	22t	1	3	520kg	Single hook
QZG10.19	7.4t	-	1	250kg	Single hook

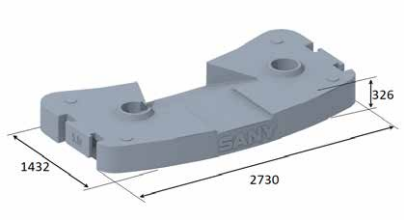
Counterweight Combinations

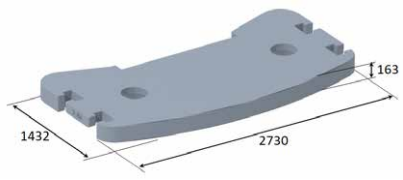
Total weight	6.4t	5.8t	2.9t	3.8t	2.1t	5t	5t
6.4t	•						
9.3t	•		•				
12.2t	•	•					
15.1t	•	•	•				
17.2t	•	•	•		•		
21t	•	•	•	•	•		
31t	•	•	•	•	•	•	•

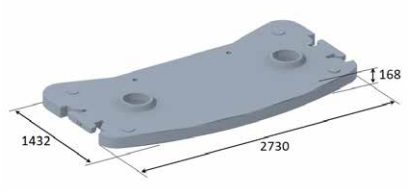
Transport Dimensions

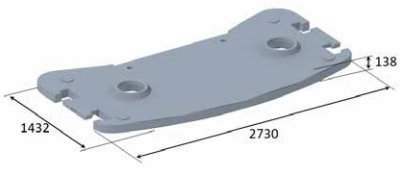
Unit: mm

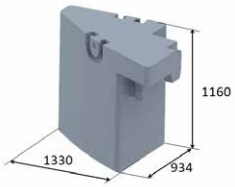


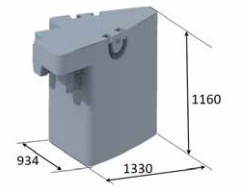


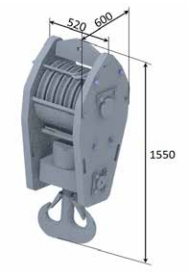
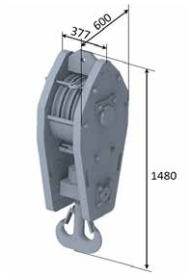
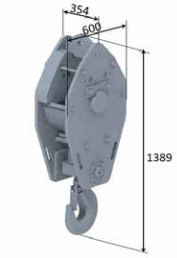








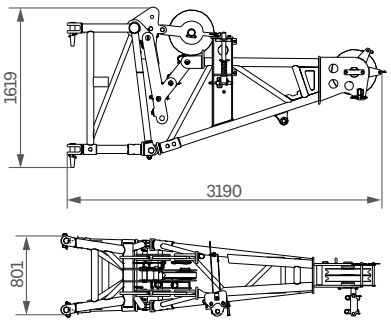


			
QZG80.19S	QZG50.19S	QZG25.19	QZG10.19

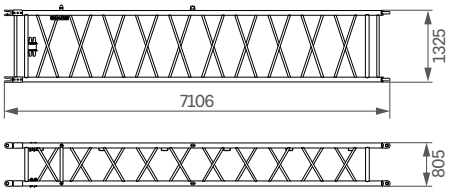
Jib Combinations

Lengths	Combinations
2.9m	①
10.4m	③
10.4m+8.3m	③ + ④
7m+10.4m	② + ③
7m+10.4m+8.3m	② + ③ + ④

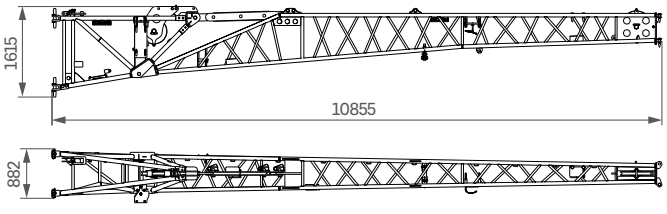
① 567kg



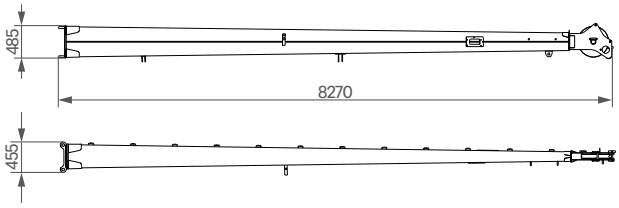
② 594kg



③ 1073kg

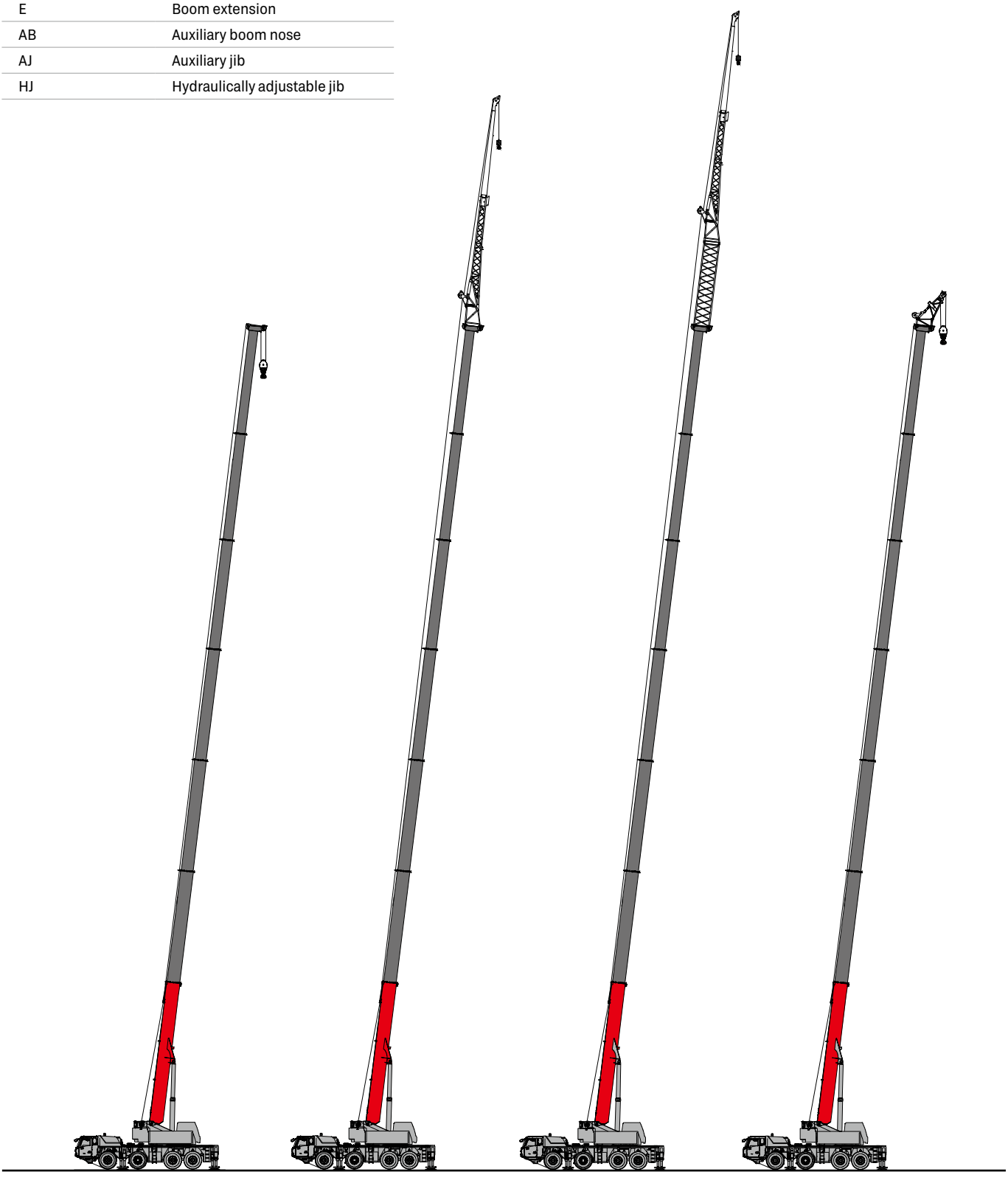


④ 355kg



Working Conditions & Codes Description

T	Telescopic boom
F	Fixed jib
E	Boom extension
AB	Auxiliary boom nose
AJ	Auxiliary jib
HJ	Hydraulically adjustable jib



Crane Introduction

Driver's cab

- Keyless entry through two opposing doors, three seats with a folding berth. It's soundproofing performance meets the standard of heavy-duty trucks. Air suspension seat features shock absorption, back adjustment, lumbar support and other ergonomic designs. Virtual LCD instrument and 12.1" console screen integrate auto control of air conditioning. Indoor temperature can be adjusted precisely and smoothly. LED headlights, electrically heated rear-view mirrors, multi-function steering wheel. The multi-media equipment can be controlled by the buttons integrated in the steering wheel.

Carrier frame

- Manufactured by Sany, the torsion resistant box-type structure is welded by fine grain high-strength steel.

Engine

- Model: BENZ inline six-cylinder diesel with watercooler. Electronically controlled.
- Rated power: 360kW/1600rpm.
- Max. torque: 2400Nm/1300rpm.
- Emission standard: EU Stage Ⅴ.
- Fuel reservoir capacity: 400L.

Transmission

- ZF AMT, 12 forward gears, 2 reversing gears. Gear shift is pneumatically powered and electrically controlled.

Transfer case

- KESSLER mechanical shift transfer case enjoys large output torque. With emergency steering oil pump mounted, the vehicle can still steer when engine fails.

Axle

- KESSLER high-strength axles are coupled with air disc brakes.

Outrigger

- H-type layout, four point support, one stage outrigger beam. Hydraulically controlled telescoping out and down. Five positions of 0%, 25%, 50%, 75%, and 100% boost flexibility. Working safety is further enhanced via ground pressure sensors and protectors.

Suspension system

- All axles adopt hydro-pneumatic suspension functioning good shock absorption, auto-levelling, shift of rigidity and resilience. The cylinder stroke ranges -100mm~+100mm.

Steering

- All wheel steering. Cutting edge electro-hydraulic proportional steeing mechanism ensures multiple steering modes, maximizing flexibility on various terrain conditions.

Tires

- 8 tires sized 385/95R25 (14.00R25), high bearing capacity.

Wheel formula

- 8× 6× 8.

Brake

- Service brake: double circuit air brake functioning on all axles.
- Parking brake: performed by spring loaded accumulator on axle 2, 3, and 4.
- Assisting brake: Engine brake, exhaust brake, transmission hydraulic retarder brake.

Electrical system

- 24V DC. All new intelligent control. With remote control of the whole machine, it satisfies prioritized safety, driving convenience, and easy operation.

Hydraulic system

- The electro-hydraulic assist steering system functions electro proportional load sensing. Two options can be made between self-made system of self centering and a full set of imported ME electro-hydraulic assist steering system. The main steering hydraulic system is designed of maximized reliability with the equipment of dual circuit integrated steering gear, dual steering pumps and constant flow radial piston pump. Suspension reliability is also upgraded with the new suspension hydraulic system.

Crane Introduction

Operator's cab

- Curved track sliding door, foldable front step and remote-controlled electric side step. The seat and armrest box can be adjusted steplessly in multi dimensions. Auto air conditioning system gives out airflow from various outlets once pressing the virtual key. Windshield wiper covers large area, ensuing clear vision in heavy rains. 10.1" frameless display of all new UI is equipped. Operation is made via touchscreen, knob and buttons.

Slewing platform

- Made by Sany with highly-durable fine grain structural steel, the box type slewing platform is torsion resistant. a single-roll ball bearing which can rotate by 360 ° and functions auto lubrication is mounted on carrier frame.

Superstructure engine

- Model: BENZ inline four-cylinder diesel with watercooler. Electronically controlled.
- Rated power: 150kW/1800rpm.
- Max. torque: 850Nm /1200~1600rpm.
- Emission standard: EU Stage Ⅴ.
- Fuel reservoir capacity: 230L.

Hydraulics

- Major motions of crane are controlled by electro proportional dual piston pumps and high precision electro proportional load sensing hydraulic system, which realizes simultaneous smooth actions. The constant power electric control also lifts engine efficiency while cutting fuel cost. The closed type slewing system functions noiselessly, effectively and smoothly.

Crane control

- Electro proportional control. It can realize stepless speed regulation and simultaneous functioning of all main motions.

Hoist

- Driven by electro proportional axial piston motor, hoisting features high efficiency and low energy cost,fitted with planetary gear reducer and normally closed type brake. It's remarkably stable at low working speed. Lebus grooves and top brand wire ropes make it more reliable.

Slewing mechanism

- single-roll ball slewing bearing with external gears. Slewing is powered by close type hydraulics with built in planetary reducer gear and normally closed brake. The continuous 360 ° rotation is controlled electro proportionally. More functions include smooth and precise start/stop, stepless speed regulation,anti diagonal tension crack, and free swing.

Safety equipment

- Electro proportional luffing balance valve, large flow telescoping balance valve, and relief valve are made by globally top brands.
- Three-circle protector prevents wire rope from over-hoist down.
- Height limit switch at boom head prevents wire rope from over-hoist up.
- Anemometer measures wind speed displayed in realtime.

Load moment indicator

- LMI alerts the operator audibly when actual load is close to payload and cuts off risky motions by itself before overload. Blackbox of overload memory and fault self-diagnosis are making it safer to operate the crane.

Counterweight

- 21t in total. See details in counterweight chart.

Electrical system

- 24V DC, two 12V battery sets connected in series.

Boom & telescoping system

- Seven section U shape 12.5m-66m boom. Single-cylinder pinning interlocked telescoping system, 46%, 92% and 100% telescoping pattern are available.

Auxiliary boom nose

- Fitted at boom head, used for single line operation. The maximum lifting load does not exceed 7.4t.

Crane Introduction

Chassis

Optional equipment at extra fees

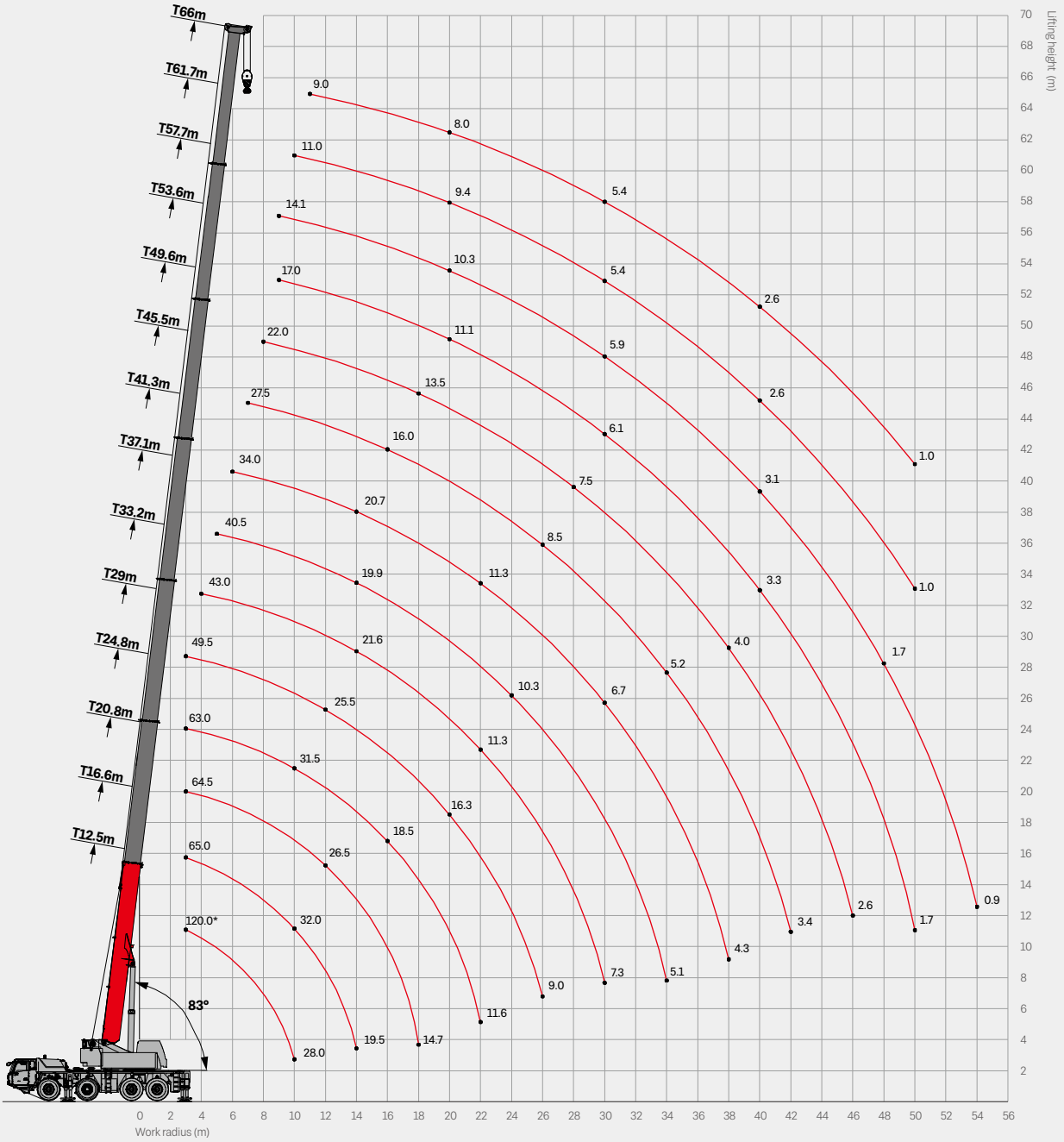
- Engine
  BENZ six cylinder OM471LA.E3A (EU Stage Ⅲ), water cooled diesel Rated 360kW at 1700rpm. Torque 2400Nm at 1300rpm. Fuel reservoir capacity: 400L.
- Drive 8x8
- Tires 8 tires sized 445/95 R 25 (16.00 R 25) or 525/80 R 25(20.5 R 25)

Superstructure

Optional equipment at extra fees

- Engine
  BENZ four cylinder OM 934 LA.E3A (EU Stage Ⅲ), water cooled diesel. Rated 150kW at 1800rpm. Torque 850Nm at 1200rpm. Fuel reservoir capacity: 230L.
- TAJ Erection jib 2.9m.
- TF Single folding jib, 10.8 m. Double swing-away jib 10.8 m-19 m. Mechanical adjustment 0° , 20° , 40° .
- THJ Hydraulically adjustable swing-away jib 10.8 m -19 m, Hydraulically adjustment 0° - 40° .
- E Boom extension section 7m.
- Auxiliary hoist Axial piston variable displacement motor, Sany cable winch with integrated planetary gear and spring loaded retaining brake.
- Counterweight 5t × 2 for a total counterweight of 31t.

Operating Range-T



Load Chart-T

Unit: t

Radius (m)	12.5*	12.5	16.6	20.8	24.8	29	33.2	37.1	41.3	45.5	49.6	53.6	57.7	61.7	66	Radius (m)
3	120	70	65	64.5												3
3.5	76	70	65	64.3	63											3.5
4	70	67	63.5	63.5	61.5	49.5										4
4.5	65	62.5	60.5	57.5	57	49.5										4.5
5	60	58.5	56.2	54	52.5	49.5	43									5
6	53.5	51.5	50	47.9	46.5	43	43	40.5								6
7	47.5	46	45	43.5	42	40.3	39	37	34							7
8	42	41.3	40.5	39	38.5	37.2	35.7	34	32	27.5						8
9	36.4	36	36.1	36.5	34.4	33.5	32.6	30.3	29.9	26.3	22					9
10	28	28	32	32	31.5	31.3	30.3	27.5	27.8	24.7	20.3					10
11			29	29	28.5	29	27.8	26	26	23.1	19.4	17	14.1			11
12			25.8	26.5	26.5	25.8	26	25.4	24	21.7	18.3	16	14.1	11.2	9	12
14			19.5	21.7	21.5	21.5	21.6	19.9	20.7	18.4	16.5	15.1	13.2	11	8.8	14
16				18.2	18.5	18.7	18.2	17.3	16.4	16	16.3	13.7	12.3	10.8	8.6	16
18				14.7	15.5	16.1	15.5	15.2	15	14.2	13.5	12.4	11.3	10.2	8.3	18
20					13.7	13.6	13.2	12.8	13.1	11.8	11.9	11.1	10.3	9.4	8	20
22					11.6	11.8	11.2	11.6	11.2	10	10	10	9.4	8.8	7.6	22
24						10.2	9.5	10.2	9.6	9.2	9	9	8.7	7.8	7	24
26						9	8.8	8.9	8.3	8.5	8.3	8.3	7.7	7.2	6.5	26
28							8.2	7.7	7.4	7.5	7.5	7.3	6.9	6.3	6.1	28
30							7.1	6.5	6.7	6.7	6.5	6.1	5.9	5.4	5.4	30
32								5.9	6.2	6	5.7	5.5	5.1	4.6	4.6	32
34								5.1	5.5	5.2	5	4.8	4.4	4	4	34
36									4.6	4.6	4.4	4.3	3.8	3.5	3.5	36
38									4.3	4.1	4	3.8	3.5	3	3	38
40										3.7	3.5	3.3	3.1	2.6	2.6	40
42										3.4	3.2	2.9	2.7	2.2	2.3	42
44											2.9	2.6	2.3	1.8	1.9	44
46											2.6	2.2	1.9	1.5	1.5	46
48												1.9	1.6	1.2	1.2	48
50												1.5	1.3	0.9	0.9	50
52													1			52
54													0.8			54

Remark: rating with * indicates load over rear.

Load Chart-T

Unit: t

Radius (m)	12.5	16.6	20.8	24.8	29	33.2	37.1	41.3	45.5	49.6	53.6	57.7	61.7	66	Radius (m)
3	70	65	64.5												3
3.5	70	65	64.3	63											3.5
4	67	63.5	63.5	61.5	49.5										4
4.5	62.5	60.5	57.5	57	49.5										4.5
5	58.5	56.2	54	52.5	49.5	43									5
6	51.5	50	47.9	46.5	43	43	40.5								6
7	46	45	43.5	42	40.3	39	37	34							7
8	41	40.5	39	38.5	37.2	35.7	34	32	27.5						8
9	33.2	34	34.3	34.4	32.4	31.9	29.9	28	26.3	22					9
10	27.5	28.5	30	29.9	28.6	28.1	26.4	24.7	23.6	20.3					10
11		24.6	25.6	25.6	26.2	25	23.6	22	21	19.4	17	14.1			11
12		21.2	22.1	22.9	22.7	22.3	21.2	20.4	18.9	18.3	16	14.1	11.2	9	12
14		16.2	17.2	17.9	17.7	17.3	17.9	17.2	15.4	15	15.1	13.2	11	8.8	14
16			13.7	14.3	14.2	13.8	14.3	13.7	13	12.8	12.6	12.3	10.8	8.6	16
18			11.1	11.8	11.9	12.2	11.8	11.4	11.6	11.6	11.3	10.5	10.2	8.3	18
20				9.8	10	10.2	9.8	10	10.2	9.7	9.4	9.3	8.9	8	20
22				8.2	8.4	8.7	8.6	8.6	8.6	8.5	8.1	7.8	7.3	7.3	22
24					7.1	7.4	7.6	7.3	7.4	7.2	6.8	6.5	6	6	24
26					6	6.3	6.6	6.6	6.3	6.2	5.8	5.4	5	5	26
28						5.4	5.7	5.7	5.5	5.3	4.9	4.6	4.2	4.2	28
30						4.7	5	5	4.7	4.5	4.2	3.8	3.4	3.4	30
32							4.3	4.4	4.1	3.9	3.5	3.2	2.7	2.8	32
34							3.7	3.7	3.4	3.3	2.9	2.6	2.2	2.2	34
36								3.2	3	2.8	2.5	2.1	1.7	1.7	36
38								2.8	2.5	2.3	2	1.7	1.2	1.3	38
40									2.2	1.9	1.6	1.3	0.9	0.9	40
42									1.8	1.6	1.2	1	0.5	0.6	42
44										1.3	0.9	0.7			44
46										1	0.6				46
48															48
50															50
52															52
54															54

Load Chart-T

Unit: t

Radius (m)	12.5	16.6	20.8	24.8	29	33.2	37.1	41.3	45.5	49.6	53.6	57.7	61.7	66	Radius (m)
3	70	65	64.5												3
3.5	70	65	64.3	63											3.5
4	67	63.5	63.5	61.5	49.5										4
4.5	62.5	60.5	57.5	57	49.5										4.5
5	58.5	56.2	54	52.5	49.5	43									5
6	51.5	50	47.9	46.5	43	43	40.5								6
7	46	45	43.5	42	40.3	39	36.5	33.9							7
8	36	36.9	38.3	36.7	35	33.5	31.2	29.1	27.5						8
9	29	30.5	31.5	31.4	30.8	29	27.1	25.3	24.1	22					9
10	23.9	25.3	26.3	27.1	26.9	25.5	24	22.2	21.3	20.3					10
11		21.4	22.4	23.1	23	22.5	21.3	21.1	18.9	18.3	17	14.1			11
12		18.8	19.3	20.1	19.9	19.5	19.7	18.9	16.9	16.4	16	14.1	11.2	9	12
14		14.3	14.8	15.5	15.4	15.3	15.5	14.8	14.5	14	13.8	13.2	11	8.8	14
16			11.7	12.4	12.5	12.8	12.4	12.4	12.8	12.2	12	11.3	10.8	8.6	16
18			9.4	10.1	10.2	10.5	10.6	10.4	10.4	10.3	10	9.6	9.1	8.3	18
20				8.3	8.5	8.7	9	8.9	8.8	8.6	8.2	7.9	7.3	7.3	20
22				6.8	7	7.3	7.5	7.7	7.3	7.1	6.8	6.4	6	6	22
24					5.9	6.1	6.4	6.5	6.2	6	5.6	5.3	4.8	4.8	24
26					5	5.2	5.5	5.5	5.2	5.1	4.7	4.3	3.9	3.9	26
28						4.4	4.7	4.7	4.5	4.3	3.8	3.6	3.1	3.2	28
30						3.7	3.9	4	3.8	3.6	3.2	2.9	2.5	2.5	30
32							3.4	3.4	3.1	3	2.6	2.3	1.8	1.9	32
34							2.9	2.9	2.7	2.5	2.1	1.8	1.4	1.4	34
36								2.5	2.2	2	1.6	1.3	0.9	0.9	36
38								2.1	1.8	1.6	1.2	0.9	0.5	0.6	38
40									1.4	1.3	0.9	0.6			40
42									1.1	1	0.6				42
44										0.7					44

Load Chart-T

Unit: t

Radius (m)	12.5	16.6	20.8	24.8	29	33.2	37.1	41.3	45.5	49.6	53.6	57.7	61.7	66	Radius (m)
3	70	65	64.5												3
3.5	70	65	64.3	63											3.5
4	67	63.5	63.5	61.5	49.5										4
4.5	62.5	60.5	57.5	57	49.5										4.5
5	58.5	56.2	54	52.5	49.5	43									5
6	51.5	50	47.9	46.5	43	43	40.5								6
7	42.9	43.9	43	41.2	39.5	37.1	34.5	32							7
8	33.3	34.8	35.5	34.7	33.7	31.6	29.5	27.4	26.1						8
9	26.7	28.1	29.2	30	29.2	27.4	25.8	24	22.7	21.9					9
10	21.9	23.3	24.3	25.1	25	24.1	22.6	22	19.9	19.3					10
11		20.1	20.7	21.3	21.2	20.7	20.5	19.8	17.7	17.1	17	14.1			11
12		17.2	17.8	18.5	18.3	17.9	18.5	17.8	16	15.5	15.3	14.1	11.2	9	12
14		13	13.6	14.3	14.3	14.7	14.3	14.3	14.1	14	13.5	12.3	11	8.8	14
16			11	11.3	11.5	11.8	11.9	11.7	11.7	11.6	11.2	10.8	10.1	8.6	16
18			8.4	9.1	9.3	9.6	9.9	9.9	9.6	9.4	9	8.7	8.2	8.2	18
20				7.4	7.6	7.9	8.2	8.3	7.9	7.7	7.3	7	6.5	6.6	20
22				6.1	6.2	6.5	6.8	6.9	6.6	6.4	6	5.7	5.2	5.2	22
24					5.2	5.5	5.7	5.8	5.5	5.3	4.9	4.6	4.1	4.2	24
26					4.3	4.6	4.9	4.9	4.6	4.4	4.1	3.7	3.3	3.3	26
28						3.8	4.1	4.1	3.9	3.6	3.3	3	2.5	2.5	28
30						3.1	3.5	3.5	3.2	3	2.7	2.4	1.9	1.9	30
32							2.9	3	2.7	2.5	2.1	1.8	1.4	1.4	32
34							2.4	2.5	2.2	2	1.6	1.3	0.9	0.9	34
36								2	1.8	1.6	1.2	0.9	0.5	0.5	36
38								1.7	1.4	1.2	0.9	0.6			38
40									1.1	0.9	0.5				40
42									0.8	0.6					42

Load Chart-T

Unit: t

Radius (m)	12.5	16.6	20.8	24.8	29	33.2	37.1	41.3	45.5	49.6	53.6	57.7	61.7	66	Radius (m)
3	70	65	64.5												3
3.5	70	65	64.3	63											3.5
4	67	63.5	63.5	61.5	49.5										4
4.5	62.5	60.5	57.5	57	49.5										4.5
5	58.5	56.2	54	52.5	49.5	43									5
6	51.5	50	47.9	46	42.6	41.1	37.9								6
7	38.2	39.2	40.1	38	36.7	34.2	31.7	29.4							7
8	29.4	30.9	32.1	32.9	31.1	29.2	27.1	25.1	23.8						8
9	23.5	24.9	26	26.8	26.6	25.2	23.6	23.2	20.7	19.9					9
10	19.1	21	21.6	22.4	22.2	21.7	21	20.4	18.1	17.5					10
11		17.7	18.2	19	18.8	18.3	19	18.5	17	16	15.7	14.1			11
12		15	15.6	16.3	16.2	16.7	16.3	16.3	16	15.5	14.8	13.4	11.2	9	12
14		11.3	12.1	12.5	12.7	13	13.3	12.8	12.9	12.8	12.3	11.6	10.8	8.8	14
16			9.5	9.8	9.9	10.3	10.6	10.6	10.3	10.1	9.7	9.4	8.8	8.6	16
18			7.1	7.8	8	8.3	8.6	8.6	8.3	8.1	7.6	7.3	6.8	6.9	18
20				6.3	6.4	6.7	7	7.1	6.8	6.5	6.2	5.8	5.4	5.4	20
22				5	5.2	5.5	5.8	5.8	5.6	5.4	5	4.7	4.2	4.2	22
24					4.3	4.6	4.8	4.8	4.6	4.4	3.9	3.7	3.2	3.2	24
26					3.4	3.7	4	4	3.7	3.6	3.2	2.9	2.4	2.5	26
28						3.1	3.3	3.3	3.1	2.9	2.5	2.2	1.8	1.8	28
30						2.5	2.7	2.8	2.5	2.3	1.9	1.6	1.2	1.2	30
32							2.2	2.3	2	1.8	1.5	1.1	0.7	0.7	32
34							1.8	1.8	1.5	1.4	1	0.7			34
36								1.4	1.2	1	0.6				36
38								1.1	0.8	0.7					38
40									0.5						40

Load Chart-T

Unit: t

Radius (m)	12.5	16.6	20.8	24.8	29	33.2	37.1	41.3	45.5	49.6	53.6	57.7	61.7	66	Radius (m)
3	70	65	64.5												3
3.5	70	65	64.3	63											3.5
4	67	63.5	63.5	61.5	49.5										4
4.5	62.5	60.5	57.5	57	49.5										4.5
5	58.5	56.2	54	52.5	49	43									5
6	46.3	47.3	45.4	42.6	40.7	37.7	34.8								6
7	33.5	35.2	36.4	35.8	33.7	31.4	29	26.8							7
8	25.6	27.1	28.3	29.1	28.5	26.7	24.9	24	21.6						8
9	20.3	22.1	22.8	23.6	23.4	22.9	21.7	21.1	19.2	18					9
10	16.3	18.2	18.8	19.6	19.4	18.9	19.6	19.2	18	17					10
11		15.2	15.8	16.6	16.4	17.1	16.9	16.6	16.5	15.6	14.7	13.9			11
12		12.9	13.9	14.1	14.3	14.7	15	14.8	14.7	14.4	13.4	12.6	11.2	9	12
14		9.5	10.5	10.7	10.9	11.2	11.5	11.5	11.3	11	10.6	10.2	9.4	8.8	14
16			8	8.3	8.4	8.7	9	9.1	8.8	8.6	8.2	7.8	7.3	7.4	16
18			5.8	6.5	6.7	6.9	7.3	7.3	7	6.8	6.4	6	5.6	5.6	18
20				5.2	5.3	5.6	5.8	5.9	5.6	5.4	5	4.7	4.2	4.3	20
22				4	4.2	4.5	4.8	4.9	4.5	4.3	3.9	3.6	3.2	3.2	22
24					3.3	3.5	3.9	3.9	3.6	3.4	3	2.7	2.3	2.3	24
26					2.6	2.8	3.1	3.2	2.9	2.7	2.3	2	1.6	1.6	26
28						2.3	2.5	2.6	2.3	2.1	1.7	1.4	1	1	28
30						1.7	2	2.1	1.8	1.6	1.2	0.9	0.5	0.5	30
32							1.5	1.6	1.3	1.1	0.8	0.5			32
34							1.1	1.2	0.9	0.7					34
36								0.8	0.6						36
38								0.6							38

Load Chart-T

Unit: t

Radius (m)	12.5	16.6	20.8	24.8	29	33.2	37.1	41.3	45.5	49.6	53.6	57.7	61.7	66	Radius (m)
3	70	65	64.5												3
3.5	70	65	64.3	63											3.5
4	67	63.5	63.5	61.5	49.5										4
4.5	62.5	60.5	57.5	56.3	49.5										4.5
5	58.5	56.2	53	49	44.7	42.7									5
6	40.1	41.9	41.4	39.9	37.2	34.4	31.6								6
7	28.7	30.4	31.7	32.6	30.7	28.5	26.5	24.1							7
8	21.8	23.8	24.4	25.3	25.1	24.2	22.5	21.9	20						8
9	17	19	19.6	20.4	20.2	19.7	20.4	19.5	18.6	17.7					9
10	13.6	15.5	16.6	16.8	16.7	17.4	17.8	17.2	16.8	16					10
11		12.8	13.8	14.1	14.3	14.7	15	15	14.7	14.2	13.2	12.4			11
12		10.8	11.7	12	12.2	12.6	12.9	13	12.6	12.3	11.7	11	10.1	9	12
14		7.7	8.7	8.9	9.1	9.4	9.7	9.8	9.5	9.3	8.8	8.5	8	7.7	14
16			6.5	6.8	7	7.3	7.5	7.6	7.2	7	6.6	6.3	5.8	5.8	16
18			4.5	5.2	5.4	5.7	6	6	5.7	5.5	5.1	4.7	4.3	4.3	18
20				3.9	4.2	4.4	4.7	4.8	4.5	4.3	3.9	3.5	3	3.1	20
22				3	3.2	3.4	3.8	3.8	3.5	3.3	2.9	2.6	2.1	2.1	22
24					2.4	2.7	2.9	3	2.7	2.5	2.1	1.8	1.3	1.3	24
26					1.7	1.9	2.3	2.3	2.1	1.9	1.4	1.2	0.7	0.7	26
28						1.4	1.7	1.8	1.5	1.3	0.9	0.6			28
30						1	1.3	1.3	1	0.8	0.5				30
32							0.9	0.9	0.6	0.5					32
34							0.5	0.6							34

Unit: t

Radius (m)	12.5	16.6	20.8	24.8	29	33.2	37.1	41.3	45.5	49.6	53.6	57.7	61.7	66	Radius (m)
3	70	65	64.5												3
3.5	70	65	64.3	63											3.5
4	67	63.5	58.9	52.7	47										4
4.5	56.1	53.2	49.4	46.5	42.3										4.5
5	41.7	44.1	42.9	40.4	37.1	33.8									5
6	26.3	28.8	29.6	30.8	29.4	26.8	24.3								6
7	18.3	20.5	21.8	22.2	22	21.5	21	19.8							7
8	13.4	15.4	16.6	16.9	17.1	17.6	18	17	16.4						8
9	10	11.9	13	13.3	13.5	13.9	14.3	14.4	13.9	13.2					9
10	7.5	9.4	10.4	10.7	10.9	11.3	11.7	11.7	11.4	11.1					10
11		7.5	8.5	8.8	9	9.3	9.7	9.7	9.4	9.2	8.7	8.3			11
12		6	6.9	7.3	7.4	7.8	8.1	8.2	7.8	7.6	7.1	6.8	6.2	6.2	12
14		3.8	4.7	5	5.2	5.5	5.8	5.9	5.6	5.4	4.9	4.5	4	4	14
16			3.2	3.4	3.6	3.9	4.2	4.3	4	3.8	3.3	3	2.5	2.5	16
18			1.6	2.3	2.5	2.8	3.1	3.1	2.8	2.6	2.2	1.8	1.4	1.4	18
20				1.4	1.5	1.8	2.2	2.2	1.9	1.7	1.3	1	0.5	0.6	20
22				0.7	0.9	1.2	1.4	1.5	1.2	1	0.7				22
24						0.6	0.9	0.9	0.7	0.5					24
26								0.5							26

Load Chart-T(AB)

Unit: t

Radius (m)	12.5	16.4	20.3	24.5	28.5	32.6	36.8	40.8	45	49.1	53.3	57.5	61.7	66	Radius (m)
3	7.4	7.4	7.4	7.4	7.4										3
3.5	7.4	7.4	7.4	7.4	7.4										3.5
4	7.4	7.4	7.4	7.4	7.4	7.4									4
4.5	7.4	7.4	7.4	7.4	7.4	7.4									4.5
5	7.4	7.4	7.4	7.4	7.4	7.4	7.4								5
6	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4							6
7	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4						7
8	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4					8
9	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4			9
10	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4		10
11		7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	11
12		7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	12
14		7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	14
16			7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	16
18			7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	18
20				7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	20
22				7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	22
24					7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	6.9	24
26					7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.2	6.4	26
28						7.4	7.4	7.4	7.4	7.4	7.2	6.8	6.2	6	28
30						7	7	6.8	6.6	6.3	6	5.8	5.3	5.4	30
32							6.2	6.1	5.9	5.6	5.4	5	4.5	4.5	32
34							5.5	5.4	5.1	4.9	4.7	4.3	3.9	3.9	34
36								4.9	4.5	4.3	4.2	3.7	3.4	3.4	36
38								4.4	4	3.9	3.7	3.4	2.9	3	38
40									3.6	3.4	3.2	3	2.5	2.7	40
42									3.3	3.1	2.8	2.6	2.2	2.3	42
44										2.8	2.5	2.3	1.8	1.8	44
46										2.5	2.2	1.9	1.5	1.5	46
48											1.8	1.5	1.1	1.1	48
50											1.5	1.2	0.9	0.9	50
52												0.9			52
54												0.7			54

Icon Description

Max. lifting capacity


Max. boom length

Max. lifting radius

Max. lifting height


Driver's cab


Carrier frame


Engine


Transmission


Transfer case


Axle


Outrigger


Slewing platform


Crane control


Hoist


Suspension system


Steering


Tires


Wheel formula


Brake


Electrical system


Hydraulic system

Slewing mechanism


Safety equipment

Load moment indicator


Counterweight


Boom & telescoping system


Auxiliary boom nose

SANY®

SANY GROUP CRANE BU

SANY Mobile Crane Industrial Park, No.168 Jinzhou Avenue, Jinzhou Development Zone, Changsha City, Hunan Province, P.R. China Zip 410600
Consulting sanycrane@sanygroup.com (Crane BU) / crd@sany.com.cn (IHQ)
After-sales Service 0086-400 6098 318

SANY CRANE

www.sanyglobal.com