QUALITY CHANGES THE WORLD

PRODUCT
SPECIFICATIONS

SANY®

STC1300S

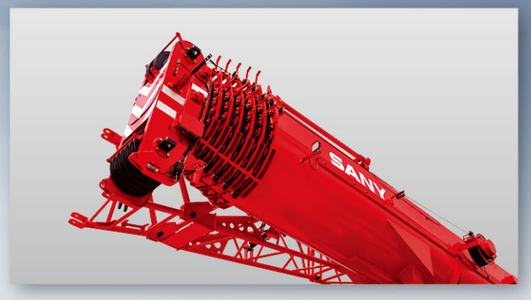
SANY TRUCK CRANE
130T LIFTING CAPACITY

Max. Lifting Capacity: 130 t
Max. Boom Length: 65.6 m
Max. Lifting Moment: 4920 kN·m

SANY TRUCK CRANE
STC1300S / 130T LIFTING CAPACITY

Longer and wider reach

- 7-section 12.5m-65.6m telescopic boom of single cylinder pin mechanism. 15.5m long jib offset at 0°, 15°, 30°, together with a 8m boom extension and two 6m jib extensions, contributes to a max. loading height of 100m and a max. radius of 70m.



Easier transfer

- Compact design goes better for operation and traveling in limited space like workshop or city corners. 10×8 steer mode contributes to a steering radius of less than 10m. Mounted with 385 95R25 AT tires, it shows tough ability to run off-road.

Heavy-duty frame

- Square carrier frame designed to avoid bending or torsion. Performance is verified by 10000 times of cycling fatigue tests.

Powerful transmission

- Engine torque is transmitted to drive axle via transmission shaft, which is highly efficient. 360° operation is possible, while performance over front is specially remarkable.

Better maneuverability

- Electrical proportional control technique and closed slewing system, fixed-point pin telescoping and accurate locating of cylinder, featuring smoother and more stable performance.

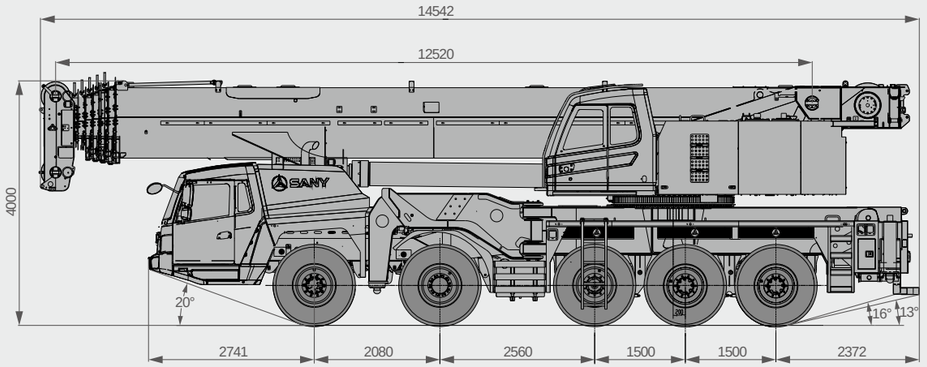
Safety equipment

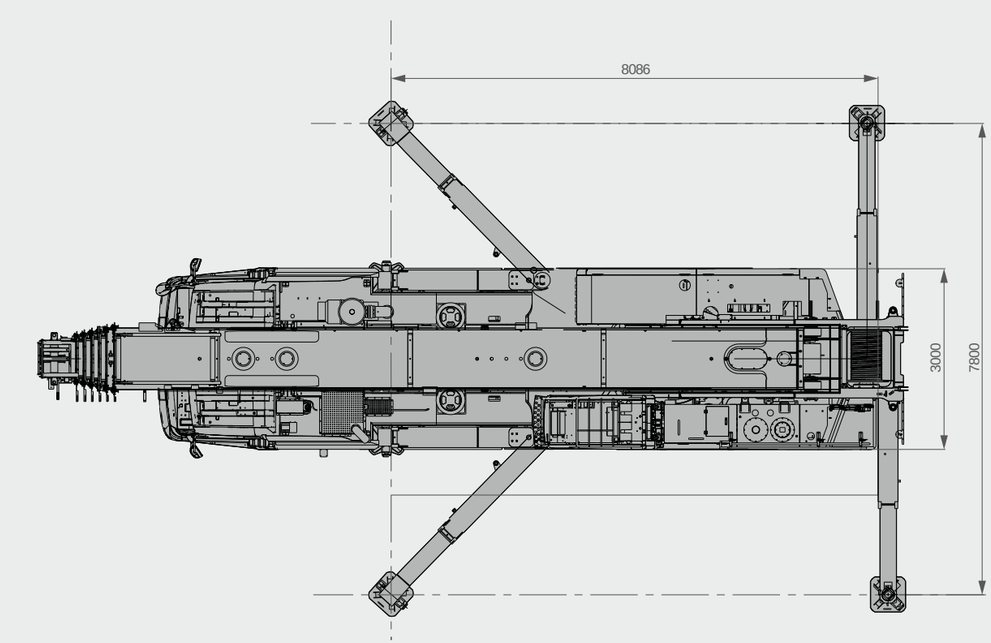
- All round safety guarantee incl. angle sensor, height limit switch, three-circle winch protector, outrigger pressure relief and other protection devices.
- Self-developed high-precision load moment indicator (LMI), offering intelligent protection for operation.

Spacious features

- Larger place for walking deck while smaller space is needed for travelling.

Overall Dimensions





Technical Specification

CATEGORY	ITEM		UNIT	VALUE
DIMENSIONS	Overall length		mm	14542
	Overall width		mm	3000
	Overall height		mm	4000
	Axle base	Axle 1 & 2	mm	2080
		Axle 2 & 3	mm	2560
		Axle 3 & 4	mm	1500
		Axle 4 & 5	mm	1500
	Wheel base	Axle 1,2 & 5	mm	2602
		Axle 3 & 4	mm	2602
WEIGHT	Gross weight		kg	54990
	Axle load	Axle 1 & 2	kg	11500/10500
		Axle 3, 4 & 5	kg	11300/10540/11150
POWER (SUPERSTRUCTURE)	Engine model		-	WP6G240E330
	Max. engine power		kW/rpm	176/2300
	Max. engine torque		N·m/rpm	860/1200~1700
POWER (CARRIER)	Engine model		-	WP12.460E50
	Max. engine power		kW/rpm	338/1900
	Max. engine torque		N·m/rpm	2150/1000~1400
TRAVEL	Max. travel speed		km/h	85
	Min. steering radius		m	≤10
	Min. steering radius of boom tip		m	≤13
	Min. ground clearance		mm	≥315
	Approach angle		°	≥18
	Departure angle		°	≥13
	Max. gradeability		%	45
	Fuel consumption per km		L	55
MAIN PERFORMANCE	Max. rated lifting capacity		t	130
	Min. rated radius		m	3
	Max. lifting moment	Basic boom	kN·m	4920
		Full-extend boom	kN·m	2400
	Outrigger span (transversal × longitudinal)		m	7.8×8.0
	Lifting height	Basic boom	m	13
		Full-extend boom	m	66
		Full-extend boom + jib	m	100
	Boom length	Basic boom	m	12.5
		Full-extend boom	m	65.6
		Full-extend boom + jib	m	99.3
	Jib offset		°	0, 15, 30
OPERATION SPEED	Max. lifting speed of single rope of main winch (empty load)		m/min	135
	Max. lifting speed of single rope of auxiliary winch (empty load)		m/min	135
	Full extension/retraction time of boom		s	570/570
	Full luffing up/down time of boom		s	60/150
	Slewing speed		r/min	0~1.8

Technical Parameters

Axle Load

Axle	1	2	3	4	5	Gross weight
Axle load/kg	11500	10500	11300	10540	11150	54990
Remark	Jib, auxiliary winch, hook, spare tire with its seat, and outrigger foot not included					

Hook

Rated load/t	Number of sheaves	Hook weight/kg	Quantity	Remark
80 (double eye)	3	693	1	Standard
12.5 (aux. hook)	-	270	1	Standard
130 (double eye)	5	1209	1	Optional
32 (single eye)	1	479	1	Optional

Operations

Item			Value
Outrigger	Front	Beam extension/retraction	25/20 s
		Jack retraction/ extension	30/25 s
	Rear	Beam extension/retraction	25/20 s
		Jack retraction/ extension	45/30 s
	Swing out / back		25/15 s

Crane Introduction

superstructure

Operator's cab

- Independently developed by Sany, it adopts safety windscreen, corrosion-resistant steel plate, and is equipped with full-coverage softening interior decoration, panoramic skylight, adjustable seat. It is equipped with air conditioner and electric wiper, 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.

Engine

- Type: WEIHCAI WP6G240E330, in-line six cylinder. China Ⅲ emission standard.
- Fuel reservoir capacity: 270L.

Hydraulic system

- Electric proportional variable displacement piston pump for realtime adjustment of pump displacement, so as to reduce energy consumption.
- Innovative dual shunt/confluence main valve enables easy control of complicated operation.
- The closed slewing system functions free swing, allowing for better inching performance.

Control system

- BUS instrument: The BUS system is integrated with intelligent control electrical system, which can control driving parameters whenever necessary to ensuring easy driving. In addition, it is configured with the engine fault indicator, thus ensuring convenient and quick maintenance and troubleshooting.
- An all-round safety protection system is provided, including 3-circle winch protector and height limit switch of hoist winches for preventing wire rope from overhoist up or down.,
- Load moment indicator: Providing safe, accurate, stable and comfortable operation.
- Outrigger automated control.
- The self-diagnosis system is applied for testing the fault of the vehicle electrical system, hydraulic action, chassis (for major safety faults), engine and transmission.

Luffing system

- Passive compensated luffing down. Luffing with load on long boom is well monitored for safety. Luffing angle: -1°~80.5°.

Telescopic system

- Telescoping is realized via one cylinder. Double pin lock mechanism for reliable work. Reduced noise and jittering impact.

Lifting mechanism

- Normally-closed winch brake and winch balance valve are used to prevent weight loss of hook.
- Hook of standard configuration: 12.5t and 80t. 22mm diameter and 280m long rotation-resistant wire rope for main winch.

Slewing system

- 360 degree slewing at a max. speed of 1.8 r/min.

Safety equipment

- Load moment indicator: The rated load accuracy is controlled to 5% through the online empty-load calibration, ensuring comprehensive protection for the lifting operation. When overload occurs, the system can automatically send an alarm for safe operation.
- Safe operation is guaranteed via load moment indicator, relief valve, two-way pilot-controlled valve, winch protector, rope monitor, pressure sensor, buzzer, and other gadgets.

Counterweight

- 42t movable counterweight features 5 combinations: 1.5t (same with mounting of auxiliary winch), 12t, 24t, 35.5t, 42t. Easy to mount and dismount. Slewing radius ≤4520mm.
- Able to travel with 12t CW during short distance transfer, qualified for 80% working conditions of 80t crane. Load on each front axle < 15t, load on each rear axle < 12.5t. Travelling speed ≤30km/h. Other CW can be transported at only 1 trailer.

Crane Introduction

Carrier

Driver's cab

- It is of steel and rubber sealing structure in ergonomic design, enabling high damping and sealing performance. It is configured with outward opening doors on both sides, pneumatic suspension driver seat and passenger seat, three-point seat belts, adjustable steering wheel, wide-angle rearview mirror, comfortable driver seat headrest, antifogging fan, HVAC, stereo radio, a complete set of controls and instruments and a berth, creating a more comfortable, safe and user-friendly driving environment.

Axle

- The vehicle is driven by axle 3, 4 and 5, steered by axle 1, 2, 4 and 5. When it travels below 45km/h, axle 4 and 5 are of supplemental steering; axle 3, 4 and 5 are mounted with differential lock.

Engine

- Type: WEICHAI WP12.460E50, in-line six cylinder. China V emission standard.
- Fuel reservoir capacity: 450L.

Transmission system

- FAST 12-speed gearbox for optimized shift, 12 forward gears and 2 reverse gears.
- Save fuel significantly with 55L needed per 100km.

Braking system

- The system includes service brake, parking brake, emergency brake and auxiliary brake.
- All wheels employ air servo brakes, forming a dual circuit braking system. Disc brake for axle 1 and 2, drum brake for others.
- The parking brake acts on the axle 2, 3, 4 and 5 through the air chamber spring; the emergency brake is equipped with an accumulator for energy storage.
- The auxiliary brake is realized by internal engine cylinder brake.

Suspension system

- All axles adopt leaf-spring suspension. The suspension system is subjected to more than 100,000 cycling fatigue tests to ensure the strength and ride comfort.

Steering system

- The axles are steered mechanically with dual-circuit hydraulic booster.

Drive/steer

- 10×6×8

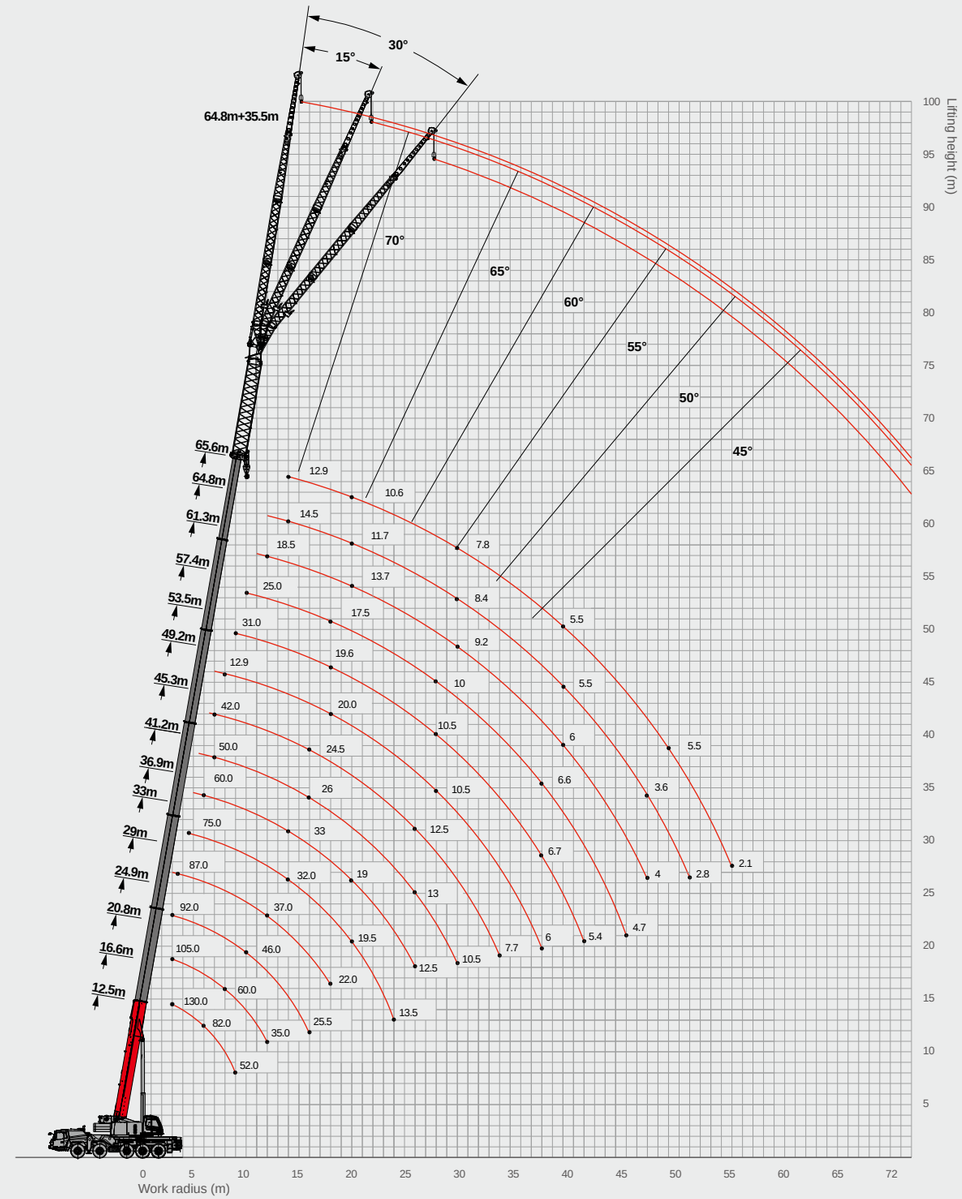
Outrigger

- It is a K-type two-section outrigger (front swing out), made by the high strength fine-grain steel plates, supported by 4 points, with a longitudinal and transversal span of 8.0m×7.8m, functioning automated levelling.

Tire

- Radial wire tire 385 95R25, showing strong bearing capacity and abrasion performance.

Operating Range



Load Chart-Telescopic Boom

Unit: t

Radius(m)	12.5	16.6	20.8	24.9	29	33	36.9	41.2	45.3	49.4	53.5	57.4	61.3	65.6	Radius(m)
3	130	105	92												3
3.5	110	96	91	87											3.5
4	100	92	86	85											4
4.5	96	88	83	80	75										4.5
5	92	83	78	76	72										5
6	82	73	69	69	64	60									6
7	70	67	62	62	60	58	50	42							7
8	60	60	56	56	53	53	47	40	37						8
9	52	53	51	52	48	49	44	38	34.4	31					9
10		46	46	46	45	45	42	36	32.5	29	25				10
12		35	36.5	37	38	39	37.5	32	29.1	26	23	23			12
14			30.5	31.5	32	33	31.6	28	26.4	24	20.9	20.9	14.5	12.9	14
16			25.5	25.5	27	26.6	26	24.5	23.9	21.8	19.3	19.3	13.5	12	16
18				22	22.6	22.5	22	21	20	19.6	17.5	17.5	12.5	11.3	18
20					19.5	19	18.6	18	17.5	17.5	16.1	16.1	11.7	10.6	20
22					16.6	16.2	16	15.6	15	15	14.8	14.8	11	9.9	22
24					13.5	14.2	14.8	14.2	13.2	13.5	13.2	13.2	10.2	9.3	24
26						12.5	13	12.5	12	12	11.5	11.5	9.6	8.7	26
28							11.5	11	10.5	10.5	10	10.4	9	8.2	28
30							10.5	9.6	9.3	9.8	9	9.2	8.4	7.8	30
32								8.6	8.2	9	8	8.2	8	7.3	32
34								7.7	7.3	8.2	7.5	7.5	7.5	6.9	34
36									6.6	7.4	7.1	7.1	6.8	6.5	36
38									6	6.7	6.6	6.6	6.2	6.1	38
40										6	6.2	6.2	5.5	5.5	40
42										5.4	5.6	5.6	5	5	42
44											5.2	5.2	4.5	4.5	44
46											4.7	4.7	4	4	46
48												4	3.6	3.6	48
50													3	3.2	50
52													2.8	2.8	52
54														2.5	54
56														2.1	56
Rope rate	11	11	10	9	8	6	5	5	4	4	3	2	2	2	Rope rate

Load Chart-Telescopic Boom

Unit: t

Radius(m)	12.5	16.6	20.8	24.9	29	33	36.9	41.2	45.3	49.4	53.5	57.4	61.3	65.6	Radius(m)
3	130	105	92												3
3.5	110	96	91	87											3.5
4	100	92	86	85											4
4.5	96	88	83	80	75										4.5
5	92	83	78	76	72										5
6	82	73	69	69	64	60									6
7	70	67	62	62	60	58	50	42							7
8	57	60	56	56	53	53	47	40	37						8
9	48	53	51	52	48	49	44	38	34.4	31					9
10		44	46	46	43	44	42	35.6	32.5	29	25				10
12		32.7	35	34.5	36.3	35.4	35.1	31.6	29	26	23	23			12
14			28	27	28.8	28	27.6	26.5	25	24	20.9	20.9	14.5	12.9	14
16			23	22.5	23.6	22.8	22.8	21.3	21	20.8	19.3	19.3	13.5	12	16
18				18.5	19.8	19	19	18.4	17.8	17.7	17.4	17.4	12.5	11.3	18
20					16.8	16.3	16.4	16.2	15.6	15.6	15.6	15.6	11.7	10.6	20
22					14.6	14.2	14.6	14	13.7	13.5	13.5	13.5	11	9.9	22
24					0	12.3	12.6	12.2	11.8	12.3	11.6	11.6	10.2	9.3	24
26						11	11.2	10.6	10.3	10.8	10	10.2	9.6	8.7	26
28							9.9	9.3	9	9.6	9.2	9.2	8.9	8.2	28
30							8.8	8.3	7.9	8.5	8.6	8.6	8.3	7.7	30
32								7.4	7	7.6	8	8	7.3	7.2	32
34								6.6	6.3	6.9	7.2	7.2	6.5	6.6	34
36									5.6	6.2	6.5	6.5	5.8	5.8	36
38									5	5.6	5.9	5.9	5.2	5.1	38
40										5	5.3	5.3	4.6	4.6	40
42										4.5	4.8	4.8	4	4	42
44											4.3	4.3	3.5	3.5	44
46											3.9	3.9	3	3.1	46
48												3	2.7	2.7	48
50													2.3	2.3	50
52													2	1.9	52
54														1.6	54
56														1.3	56
Rope rate	11	11	10	9	8	6	5	5	4	4	3	2	2	2	Rope rate

Load Chart-Telescopic Boom

Unit: t

Radius(m)	12.5	16.6	20.8	24.9	29	33	36.9	41.2	45.3	49.4	53.5	57.4	61.3	65.6	Radius(m)
3	130	105	92												3
3.5	110	96	91	87											3.5
4	100	92	86	85											4
4.5	96	88	83	80	75										4.5
5	92	83	78	76	72										5
6	82	73	69	69	64	60									6
7	70	67	62	62	60	58	50	42							7
8	57	58.5	56	56	53	53	47	40	37						8
9	46.6	46.7	48.6	47.8	46.5	46.7	44	38	34.4	31					9
10		40	40.3	39.6	41	41	38.9	35	32.5	29	25				10
12		29.6	30.5	29	30.9	30.4	29.8	28.8	27.5	26	23	23			12
14			23.5	22.6	24.1	23.7	23.1	22.4	22.1	21.6	20.9	20.9	14.5	12.9	14
16			19	18	19.5	19	19.5	19.2	18.6	17.5	16.7	16.7	13.5	12	16
18				14.8	16.1	15.7	16.1	15.8	15.2	15.5	13.6	14.6	12.5	11.3	18
20					13.7	13.1	13.6	13.2	12.7	13	12.4	12.4	11.7	10.6	20
22					11.7	11.3	11.6	11.2	10.7	11.1	11.3	11.3	10.8	9.9	22
24					0	9.7	10	9.5	9	9.5	9.9	9.9	9.2	9.2	24
26						8.3	8.8	8.2	7.8	8.1	8.6	8.6	8	8	26
28							7.7	7	6.8	7.2	7.6	7.6	6.9	6.9	28
30							6.8	6.1	5.7	6.3	6.6	6.6	6	6	30
32								5.3	4.9	5.5	5.9	5.9	5.2	5.2	32
34								4.5	4.1	4.8	5.3	5.3	4.5	4.5	34
36									3.5	4.2	4.6	4.6	3.8	3.8	36
38									3	3.6	4	4	3.2	3.2	38
40										3.1	3.5	3.5	2.7	2.7	40
42										2.7	3	3	2.3	2.2	42
44											1.2	2.2	1.9	1.9	44
46												1.8	1.5	1.5	46
48												1.5	1.2	1.2	48
Rope rate	11	11	10	9	8	6	5	5	4	4	3	2	2	2	Rope rate

Model **STC1300S** | SERIES

Load Chart-Telescopic Boom

Unit: t

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3	130	105	92												3
3.5	110	96	91	87											3.5
4	100	92	86	85											4
4.5	96	88	83	80	75										4.5
5	92	83	78	76	72										5
6	80	73	69	69	64	60									6
7	58	56	60	60	58	56	50	42							7
8	45	45	47	45	48	48	47	40	37						8
9	35	37.5	38	39	39.5	38.5	38	37	34	31					9
10		30	31	32	32.5	32	31	30	30	29	25				10
12		22	22.5	23	24	23.3	24	22.8	23	21.6	21.6	21.6			12
14			17.5	17	18.6	18	18	17.6	17.5	17.8	16.5	17.1	14.5	12.9	14
16			14	13	14.8	14.2	14.5	13.9	13.6	14.1	14.6	14.6	13.5	11	16
18				10.5	12.1	11.6	12	11.2	11	11.4	12.1	12.1	11.6	10	18
20					10	9.5	9.9	9.2	8.9	9.4	10	10	9.4	9	20
22					8.3	7.8	8.2	7.6	7.2	7.8	8.4	8.4	7.9	7.6	22
24					0	6.4	6.8	6.2	5.8	6.5	7.1	7.1	6.2	6.2	24
26						5.3	5.7	5.1	4.7	5.5	5.9	5.9	5.1	5.1	26
28							4.8	4.1	3.8	4.5	5	5	4.1	4.1	28
30							4	3.4	3	3.7	4.2	4.2	3.3	3.3	30
32								2.7	2.3	3	3.5	3.5	2.6	2.6	32
34								2.1	1.7	2.4	2.9	2.9	2	2.1	34
36								1.2	1.9	2.4	2.4	1.5	1.5	36	
38									1.5	1.9	1.9	1.1	1.1	38	
40									1.1	1.5	1.5			40	
42										1.1	1.1			42	
Rope rate	11	11	10	9	8	6	5	5	4	4	3	2	2	2	Rope rate

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Unit: t

Radius(m)	12.5	16.6	20.8	24.9	29	33	36.9	41.2	45.3	49.4	53.5	57.4	61.3	65.6	Radius(m)
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3.5	110	96	91	87											3.5
4	92	92	86	85											4
4.5	88	88	83	80	75										4.5
5	83	83	78	76	72										5
6	64	62	66	64	58	60									6
7	44	46	47	46	48	44.4	41.1	42							7
8	33	35	36	35	36	33.6	33.3	32.4	31						8
9	26	28	28	28	29	26.7	26.5	26	26.1	25					9
10		22.5	23	22	24	21.5	22	21	21	21	20.2				10
12		16	16	17.8	17	15	16	15	15	15	15.6	15.6			12
14			12	13.2	13	12	12	12	11.8	11.2	12	12	11.2	10	14
16			9	10.1	9.9	9.4	9.9	9.2	8.8	9.8	10	10	9	9	16
18				7.9	7.7	7.2	7.7	7	6.6	7.5	8	8	7	7.1	18
20					6	5.6	6	5.4	5	5.8	6.3	6.3	5.4	5.4	20
22					4.8	4.3	4.7	4.1	3.7	4.5	5	5	4	4.1	22
24					0	3.3	3.7	3	2.7	3.5	4	4	3.1	3.1	24
26						2.5	2.8	2.2	1.8	2.6	3.1	3.1	2.2	2.2	26
28							2.1	1.5		1.9	2.4	2.4	1.5	1.5	28
30							1.6			1.3	1.8	1.8			30
Rope rate	11	11	10	9	8	6	5	5	4	4	3	2	2	2	Rope rate

Unit: t

Radius(m)	12.5	16.6	20.8	24.9	29	33	36.9	41.2	45.3	49.4	53.5	57.4	61.3	65.6	Radius(m)
3	130	105	92												3
3.5	110	96	91	87											3.5
4	92	92	86	85											4
4.5	88	88	83	80	75										4.5
5	83	83	78	76	72										5
6	61	61	64	63.5	58	60									6
7	42	45	45.5	44.6	47	44.4	41.1	42							7
8	31	34	34	33.5	35.5	33.6	33.3	32.4	31						8
9	24	27	27	26.1	28	26.7	26.5	26	26.1	25					9
10		21.5	22.3	20.8	23.2	21.5	21.5	21	20.9	20.9	20.2				10
12		14.6	15.4	14	16.2	14.9	15.1	14.5	14.4	14.5	15.6	15.6			12
14			11.2	9.9	12	11	11.2	10.7	10.5	10.7	11.6	11.6	11.2	10	14
16			8.3	7.1	9.1	8.3	8.6	8.1	7.8	8.2	8.9	8.9	8.4	8.4	16
18				5.2	7	6.4	6.7	6.2	5.9	6.3	7	7	6.4	6.4	18
20					5.4	5	5.3	4.8	4.4	5	5.5	5.5	4.8	4.9	20
22					4.2	3.8	4.2	3.6	3.2	3.9	4.4	4.4	3.6	3.6	22
24					0	2.8	3.2	2.6	2.2	3	3.5	3.5	2.6	2.6	24
26						2	2.4	1.8	1.4	2.2	2.7	2.7	1.8	1.8	26
28							1.7	1.1		1.5	2	2	1.1	1.1	28
30							1.2			1	1.4	1.4			30
Rope rate	11	11	10	9	8	6	5	5	4	4	3	2	2	2	Rope rate

Load Chart-Telescopic Boom

Unit: t

Radius(m)	12.5	16.6	20.8	24.9	29	33	36.9	41.2	45.3	49.4	53.5	57.4	61.3	65.6	Radius(m)
3	130	105	92												3
3.5	110	96	91	87											3.5
4	100	92	86	85											4
4.5	96	88	83	80	75										4.5
5	92	83	78	76	72										5
6	82	73	69	69	64	60									6
7	64	63	62	62	60	58	50	42							7
8	51.5	50.5	52	50.6	49.4	50	47	40	37						8
9	42	43.5	43	41.7	45	42.9	43.3	38	35	31					9
10		37.3	37.3	36	38.5	36.4	36.8	35	33	29	25				10
12		27.8	28.2	27.2	29.5	27.5	27.7	27	25.9	24.4	23	23			12
14			22.3	21.4	23.6	22.5	22.9	22.4	21.7	21	18.7	18.7	14.5	12.9	14
16			18	17.3	19.3	18.5	19.5	18.6	18.3	17.3	15.1	15.9	13.5	12	16
18				14	16.2	15.3	16.3	15.5	15.2	15	13.5	14	12.5	11.3	18
20					13.9	13	13.9	13.2	12.8	13	12.4	12.4	11.7	10.6	20
22					11.9	11	11.8	11.2	10.8	11.2	11	11	11	9.9	22
24					8.8	9.7	10.2	9.6	9.3	9.8	9.8	9.8	9.5	9	24
26						8.4	8.9	8.3	7.9	8.5	8.7	8.7	8.2	7.8	26
28							7.8	7.1	6.8	7.4	7.7	7.7	7	6.8	28
30							6.8	6.2	5.8	6.4	6.8	6.8	6.1	6	30
32								5.4	5	5.5	6	6	5.3	5.2	32
34								4.7	4.3	4.9	5.2	5.2	4.5	4.5	34
36									3.7	4.3	4.7	4.7	3.9	3.9	36
38									3.1	3.8	4.2	4.2	3.3	3.3	38
40										3.3	3.7	3.7	2.8	2.8	40
42										2.8	3.2	3.2	2.4	2.4	42
44											2.8	2.8	2	2	44
46											2.4	2.4	1.6	1.6	46
48												1.6	1.3	1.3	48
50													1	1	50
Rope rate	11	11	10	9	8	6	5	5	4	4	3	2	2	2	Rope rate

Load Chart-Telescopic Boom

Unit: t

Radius(m)	12.5	16.6	20.8	24.9	29	33	36.9	41.2	45.3	49.4	53.5	57.4	61.3	65.6	Radius(m)
3	130	105	92												3
3.5	110	96	91	87											3.5
4	100	92	86	85											4
4.5	96	88	83	80	75										4.5
5	92	83	78	76	72										5
6	73	70.2	69	69	64	60									6
7	54.5	53	55	53.7	54	53	50	42							7
8	43	44	44.8	43	44.8	43.4	44.3	40	37						8
9	35	36	36.9	35.8	37	35.8	36.5	34.5	33.1	31					9
10		30.8	31.2	30.5	31.3	30.3	30.8	29	28.3	26.9	25				10
12		22.9	23.6	22.4	23.5	22.7	24.5	23.3	23	21.6	20.5	20.5			12
14			18.3	17.3	19	18.2	19.3	18.7	18.3	18.5	16.2	17.1	14.5	12.9	14
16			14.7	14	15.5	14.8	15.7	15.3	14.6	15.2	14.6	14.9	13.5	12	16
18				11.2	12.8	12.1	13	12.8	12.1	12.3	12.5	12.5	12.3	11.3	18
20					10.7	10.2	11	10.6	10.2	10.5	10.5	10.6	10.5	9.8	20
22					9.2	8.7	9.3	9	8.6	8.8	9.3	9.3	9	8.3	22
24					0	7.3	8	7.6	7.2	7.6	8.1	8.1	7.6	7.2	24
26						6.3	7	6.5	6.2	6.5	7	7	6.5	6.1	26
28							6	5.5	5.3	5.6	6.1	6.1	5.6	5.3	28
30							5.2	4.7	4.5	4.9	5.3	5.3	4.8	4.6	30
32								4	3.7	4.3	4.8	4.8	4.1	4	32
34								3.3	3.1	3.7	4.2	4.2	3.5	3.3	34
36									2.6	3.1	3.6	3.6	2.9	2.8	36
38									1.4	2.7	3.1	3.1	2.4	2.4	38
40										2.3	2.7	2.7	2	2	40
42										2	2.3	2.3	1.5	1.5	42
44											2	2	1.2	1.2	44
46											1.6	1.6			46
Rope rate	11	11	10	9	8	6	5	5	4	4	3	2	2	2	Rope rate

Load Chart-Telescopic Boom

Unit: t

Radius(m)	12.5	16.6	20.8	24.9	29	33	36.9	41.2	45.3	49.4	53.5	57.4	61.3	65.6	Radius(m)
3	130	105	92												3
3.5	110	96	91	87											3.5
4	100	92	86	85											4
4.5	96	88	83	80	75										4.5
5	86.9	83	78	76	72										5
6	60	60	62	59.6	58	57.4									6
7	45	46.8	47	46	48	45.7	44.8	42							7
8	35	37	37.7	37	38.5	36.2	35.5	34.9	33.4						8
9	28.5	30.3	31	30	32	29.8	30.5	29.9	29.4	27.5					9
10		25.4	26	25.5	27	25	26	26	25	23.3	22				10
12		18.9	19.3	18.7	20	19	19.6	19.5	18.6	18.2	17.8	17.8			12
14			14.8	14.6	15.8	15	15.3	15	14.3	14.2	14.5	14.5	14.2	12.9	14
16			11.9	11.2	12.7	12	12.4	12	11.4	11.3	11.7	11.7	11.3	10.3	16
18				9	10.3	9.8	10.2	9.7	9.2	9.5	9.6	9.6	9.3	8.4	18
20					8.6	8	8.5	8	7.5	7.9	8	8	7.6	6.8	20
22					7.1	6.6	7	6.5	6.1	6.6	6.8	6.8	6.3	5.6	22
24					0	5.5	5.9	5.3	5	5.6	5.8	5.8	5.2	4.6	24
26						4.5	4.9	4.3	4	4.6	4.9	4.9	4.3	4	26
28							4.1	3.5	3.1	3.9	4.2	4.2	3.5	3.3	28
30							3.4	2.8	2.4	3.1	3.5	3.5	2.8	2.7	30
32								2.2	1.8	2.5	2.9	2.9	2.1	2.1	32
34								1.7	1.3	2	2.4	2.4	1.6	1.6	34
36									1.5	1.9	1.9	1.1	1.2		36
38									1.1	1.5	1.5				38
40										1.2	1.2				40
Rope rate	11	11	10	9	8	6	5	5	4	4	3	2	2	2	Rope rate

Unit: t

Radius(m)	12.5	16.6	20.8	24.9	29	33	36.9	41.2	45.3	49.4	53.5	57.4	61.3	65.6	Radius(m)
3	130	105	92												3
3.5	110	96	91	87											3.5
4	100	92	86	85											4
4.5	96	88	83	80	75										4.5
5	62	65	68	66	64.5										5
6	42	46.5	48	46.5	48	44.5									6
7	31	34.5	35.5	34.2	36.5	33	35.5	33.5							7
8	24.5	27.2	27.5	26.4	28.6	25.5	27.8	26.5	24						8
9	18.6	21.8	22	21	23	21.7	22.6	21.4	20	20					9
10		18.3	18	17.3	19.5	18	19	17.8	16.8	16.5	18				10
12		12.8	13.3	11.9	14.3	12.6	13.9	12.9	11.9	12	13.8	13.8			12
14			10	9	10.8	10.2	10.3	9.8	9.4	9.2	10.3	10.3	9.6	8.2	14
16			7.6	6.7	8.3	7.8	8.2	7.6	7.2	7.3	8.3	8.3	7.6	6.4	16
18				4.5	6.5	6	6.4	5.8	5.5	5.8	6.7	6.7	5.9	5	18
20					5.1	4.7	5.1	4.5	4.2	4.7	5.3	5.3	4.6	3.8	20
22					4	3.6	4	3.4	3	3.7	4.3	4.3	3.4	3.1	22
24					0	2.7	3.1	2.5	2.1	2.9	3.4	3.4	2.5	2.4	24
26						2	2.3	1.7	1.4	2.1	2.6	2.6	1.8	1.8	26
28							1.7	1.1		1.5	1.9	1.9	1.1	1.1	28
30							1.2			1	1.4	1.4			30
Rope rate	11	11	10	9	8	6	5	5	4	4	3	2	2	2	Rope rate

Load Chart-Telescopic Boom

Unit: t

Radius(m)	12.5	16.6	20.8	24.9	29	33	36.9	41.2	45.3	49.4	53.5	57.4	61.3	65.6	Radius(m)
3	41.8	44.8	45.9												3
3.5	41.8	44.8	45.9	44											3.5
4	41.8	44.8	45.9	44											4
4.5	41.8	44.8	45.9	44	47.4										4.5
5	41	44.8	45.9	43.8	47										5
6	26.8	32	31.8	28.9	31.6	26.7									6
7	20	23	23.5	22	24	19.5	23.8	21.1							7
8	14.6	17.6	18.3	16.8	18.5	15.1	19.3	17.2	14.2						8
9	11	14	14.5	12.6	15.3	12	15.7	12.9	11.2	12.4					9
10		11.2	11.6	10.3	12.5	10.2	12.6	10.5	9.3	10.1	11.6				10
12		7.4	7.9	6.7	8.7	7.3	8.7	7.5	6.4	7.5	8.3	8.3			12
14			5.4	4.3	6.2	5.3	6.3	5.6	4.6	5.6	6.4	6.4	4.6	4.6	14
16			3.7	2.6	4.4	3.6	4.5	3.8	3.2	4.1	4.5	4.5	3.4	3.5	16
18				1.3	3.1	2.6	3.1	2.5	2.1	2.8	3.4	3.4	2.3	2.5	18
20					2.1	1.7	2.1	1.5	1.2	1.9	2.4	2.4	1.6	1.6	20
22					1.3	0.9	1.3			1.1	1.6	1.6			22
Rope rate	11	11	10	9	8	6	5	5	4	4	3	2	2	2	Rope rate

Unit: t

Radius(m)	12.5	16.6	20.8	24.9	29	33	36.9	41.2	45.3	49.4	53.5	57.4	61.3	65.6	Radius(m)
3	41.8	44.8	45.9												3
3.5	41.8	44.8	45.9	44											3.5
4	41.8	44.8	45.9	44											4
4.5	41.8	44.8	45.9	44	47.4										4.5
5	41	44.8	45.9	43.8	47										5
6	26.8	29.8	30.7	28.9	31.6	26.7									6
7	19	21.6	22.4	20.8	23.3	19.5	23.8	21.1							7
8	14.1	16.4	17.2	15.7	18	15.1	18.4	17.2	14.2						8
9	10.7	12.9	13.6	12.2	14.4	12	14.6	12.9	11.2	12.4					9
10		10.2	10.9	9.7	11.8	9.7	11.8	10.5	9.1	10.1	11.2				10
12		6.6	7.2	6.2	8	6.7	8	7.2	6.1	7	7.8	7.8			12
14			4.8	3.9	5.6	4.7	5.6	5	4.2	5	5.6	5.6	4.4	4.3	14
16			3.2	2.3	3.9	3.3	3.9	3.3	2.8	3.5	4.1	4.1	3	3	16
18				1.2	2.6	2.2	2.6	2	1.7	2.5	3	3	2	2	18
20					1.7	1.2	1.6	1.1		1.5	2	2	1.1	1.1	20
22					1		1				1.2	1.2			22
Rope rate	11	11	10	9	8	6	5	5	4	4	3	2	2	2	Rope rate

Load Chart-Jib

Unit: t

Telescopic boom + jib length							
Boom length	61.3m			65.6m			Boom length
Jib length	9.5m			9.5m			Jib length
Radius(m) / Jib offset	0°	15°	30°	0°	15°	30°	Radius(m) / Jib offset
14	6.5			5.7			14
16	6.5			5.7			16
18	6	5.4		5.6	5.4		18
20	5.5	5.4	5	5.5	5.3	5	20
22	5.5	5.2	4.8	5.4	5.2	4.8	22
24	5.3	5.2	4.6	5.4	5	4.6	24
26	5.3	5	4.4	5.3	4.8	4.4	26
28	5.2	4.8	4.2	5.1	4.6	4.2	28
30	5	4.4	4	5.1	4.4	4	30
32	4.8	4.3	3.9	5	4.2	3.9	32
34	4.6	4.2	3.9	4.8	4.1	3.8	34
36	4	4	3.8	4.2	4	3.8	36
38	3.5	3.8	3.7	3.6	3.9	3.6	38
40	3	3.3	3.4	3.1	3.4	3.5	40
42	2.7	2.9	3	2.7	3	3.3	42
44	2.6	2.5	2.8	2.4	2.6	2.9	44
46	2.2	2.2	2.4	2.3	2.2	2.5	46
48	1.9	1.9	2.1	2	1.9	2.2	48
50	1.6	1.8	1.8	1.7	1.7	1.9	50
52	1.3	1.5	1.5	1.4	1.6	1.6	52
54		1.3	1.2	1.1	1.4	1.3	54
56					1.1	1.1	56
58							58
60							60
62							62
64							64
66							66
68							68
70							70
72							72

Load Chart-Jib

Unit: t

Telescopic boom + jib length							
Boom length	61.3m			65.6m			Boom length
Jib length	15.5m			15.5m			Jib length
Radius(m) / Jib offset	0°	15°	30°	0°	15°	30°	Radius(m) / Jib offset
14	3.5			3.5			14
16	3.5			3.5			16
18	3.5			3.5			18
20	3.4	3.2		3.4	3.2		20
22	3.4	3.2		3.4	3.2		22
24	3.3	3.1	3.0	3.3	3.1	3.0	24
26	3.3	3.1	3.0	3.3	3.1	3.0	26
28	3.3	3.1	3.0	3.3	3.1	3.0	28
30	3.2	3.0	3.0	3.2	3.0	3.0	30
32	3.2	3.0	3.0	3.2	3.0	3.0	32
34	3.2	3.0	2.9	3.2	3.0	2.9	34
36	3.1	2.9	2.9	3.1	2.9	2.9	36
38	3.1	2.9	2.9	3.1	2.9	2.9	38
40	3.0	2.9	2.9	3.0	2.9	2.9	40
42	2.8	2.9	2.9	2.8	2.9	2.9	42
44	2.7	2.6	2.7	2.7	2.6	2.7	44
46	2.3	2.5	2.5	2.4	2.5	2.6	46
48	2.3	2.5	2.4	2.2	2.4	2.5	48
50	2.0	2.0	2.3	2.1	2.3	2.3	50
52	1.7	1.9	2.1	1.8	2.0	2.2	52
54	1.4	1.6	1.8	1.5	1.7	1.9	54
56	1.2	1.3	1.6	1.2	1.4	1.6	56
58	1.1	1.2	1.3	1.0	1.2	1.4	58
60		1.1	1.1	0.9	1.0	1.1	60
62				0.8	0.9	0.9	62
64					0.8	0.8	64
66							66
68							68
70							70
72							72

Load Chart-Jib

Unit: t

Telescopic boom + jib length							
Boom length	61.3m			65.6m			Boom length
Jib length	21.5m			21.5m			Jib length
Radius(m) / Jib offset	0°	15°	30°	0°	15°	30°	Radius(m) / Jib offset
14	2.5						14
16	2.5			2.5			16
18	2.4			2.4			18
20	2.4	2.0		2.4			20
22	2.3	2.0		2.3	2.0		22
24	2.3	2.0	1.5	2.3	2.0		24
26	2.2	2.0	1.5	2.2	2.0	1.5	26
28	2.2	1.9	1.5	2.2	1.9	1.5	28
30	2.1	1.9	1.5	2.1	1.9	1.5	30
32	2.1	1.9	1.5	2.1	1.9	1.5	32
34	2.1	1.9	1.4	2.1	1.9	1.4	34
36	2.0	1.8	1.4	2.0	1.8	1.4	36
38	2.0	1.8	1.4	2.0	1.8	1.4	38
40	2.0	1.8	1.4	2.0	1.8	1.4	40
42	1.9	1.8	1.4	1.9	1.8	1.4	42
44	1.8	1.8	1.3	1.8	1.8	1.3	44
46	1.7	1.7	1.3	1.7	1.7	1.3	46
48	1.6	1.6	1.3	1.6	1.6	1.3	48
50	1.5	1.5	1.3	1.6	1.5	1.3	50
52	1.4	1.4	1.2	1.4	1.4	1.2	52
54	1.3	1.3	1.2	1.3	1.3	1.2	54
56	1.2	1.2	1.2	1.2	1.2	1.2	56
58	1.0	1.1	1.2	1.1	1.2	1.2	58
60	0.9	1.0	1.0	0.8	1.0	1.2	60
62		0.9	0.9	0.7	0.9	1.0	62
64			0.7		0.7	0.8	64
66					0.6	0.6	66
68							68
70							70
72							72

Load Chart-Jib

Unit: t

Telescopic boom + jib length							
Boom length	61.3m			65.6m			Boom length
Jib length	27.5m			27.5m			Jib length
Radius(m) / Jib offset	0°	15°	30°	0°	15°	30°	Radius(m) / Jib offset
14							14
16							16
18	2.0			2.0			18
20	2.0			2.0			20
22	2.0	1.8		2.0	1.8		22
24	2.0	1.8		2.0	1.8		24
26	2.0	1.8		2.0	1.8		26
28	1.9	1.8	1.5	1.9	1.8	1.5	28
30	1.9	1.7	1.5	1.9	1.7	1.5	30
32	1.8	1.7	1.5	1.8	1.7	1.5	32
34	1.8	1.7	1.5	1.8	1.7	1.5	34
36	1.8	1.7	1.5	1.8	1.7	1.5	36
38	1.7	1.6	1.4	1.7	1.6	1.4	38
40	1.7	1.6	1.4	1.7	1.6	1.4	40
42	1.6	1.6	1.4	1.6	1.6	1.4	42
44	1.6	1.6	1.4	1.6	1.6	1.4	44
46	1.5	1.5	1.4	1.5	1.5	1.4	46
48	1.5	1.5	1.3	1.5	1.5	1.3	48
50	1.5	1.5	1.3	1.5	1.5	1.3	50
52	1.4	1.4	1.3	1.4	1.4	1.3	52
54	1.4	1.4	1.3	1.4	1.4	1.3	54
56	1.3	1.3	1.3	1.3	1.3	1.3	56
58	1.2	1.2	1.2	1.1	1.2	1.2	58
60	0.9	1.2	1.2	1.0	1.2	1.2	60
62	0.7	1.1	1.2	0.8	1.0	1.2	62
64		0.9	1.1		1.0	1.1	64
66			0.8		0.8	1.0	66
68						0.7	68
70							70
72							72

Load Chart-Jib

Unit: t

Telescopic boom + jib length							
Boom length	61.3m			64.8m			Boom length
Jib length	35.5m			35.5m			Jib length
Radius(m) / Jib offset	0°	15°	30°	0°	15°	30°	Radius(m) / Jib offset
14							14
16							16
18							18
20	1.8			1.3			20
22	1.8			1.3			22
24	1.7			1.3			24
26	1.7	1.5		1.3	1.3		26
28	1.6	1.5		1.3	1.3		28
30	1.6	1.5		1.3	1.3		30
32	1.5	1.4	1.3	1.3	1.3	1.3	32
34	1.5	1.4	1.3	1.3	1.3	1.3	34
36	1.4	1.3	1.3	1.3	1.3	1.3	36
38	1.4	1.3	1.3	1.3	1.3	1.3	38
40	1.3	1.3	1.3	1.3	1.3	1.3	40
42	1.3	1.3	1.3	1.3	1.3	1.3	42
44	1.2	1.3	1.3	1.2	1.3	1.3	44
46	1.2	1.3	1.3	1.2	1.3	1.3	46
48	1.2	1.2	1.2	1.2	1.2	1.2	48
50	1.1	1.2	1.2	1.1	1.2	1.2	50
52	1.1	1.2	1.2	1.1	1.2	1.2	52
54	1	1.2	1.2	1.1	1.2	1.2	54
56	1	1.2	1.2	1.1	1.2	1.1	56
58	0.9	1.1	1.1	1	1.1	1.1	58
60	0.8	1.1	1.1	1	1.1	1.1	60
62	0.7	1	1.1	0.8	1	1.1	62
64		0.9	1	0.6	0.9	1	64
66		0.8	1		0.8	1	66
68			0.8		0.6	0.9	68
70						0.7	70
72						0.5	72

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Reminder:
For safe and reliable operation of the diesel engines, please fill Grade IV machines with Grade IV diesel and urea solution conforming to related national standards. Please refer to the operating instructions and related standards for details.

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