

QUALITY CHANGES THE WORLD

**PRODUCT
SPECIFICATIONS**



SPC250T4

SANY TRUCK-MOUNTED CRANE
25T LIFTING CAPACITY



Max. Lifting Capacity: 25t
Max. Boom Length: 33m
Max. Lifting Moment: 920kN-m

www.sanyglobal.com

V1.2

SANY TRUCK-MOUNTED CRANE SPC250T4 / 25T LIFTING CAPACITY

Higher efficiency

- Simultaneous telescoping of boom sections is realized via single cylinder with rope arranger, improving efficiency by 10%.

Higher stability

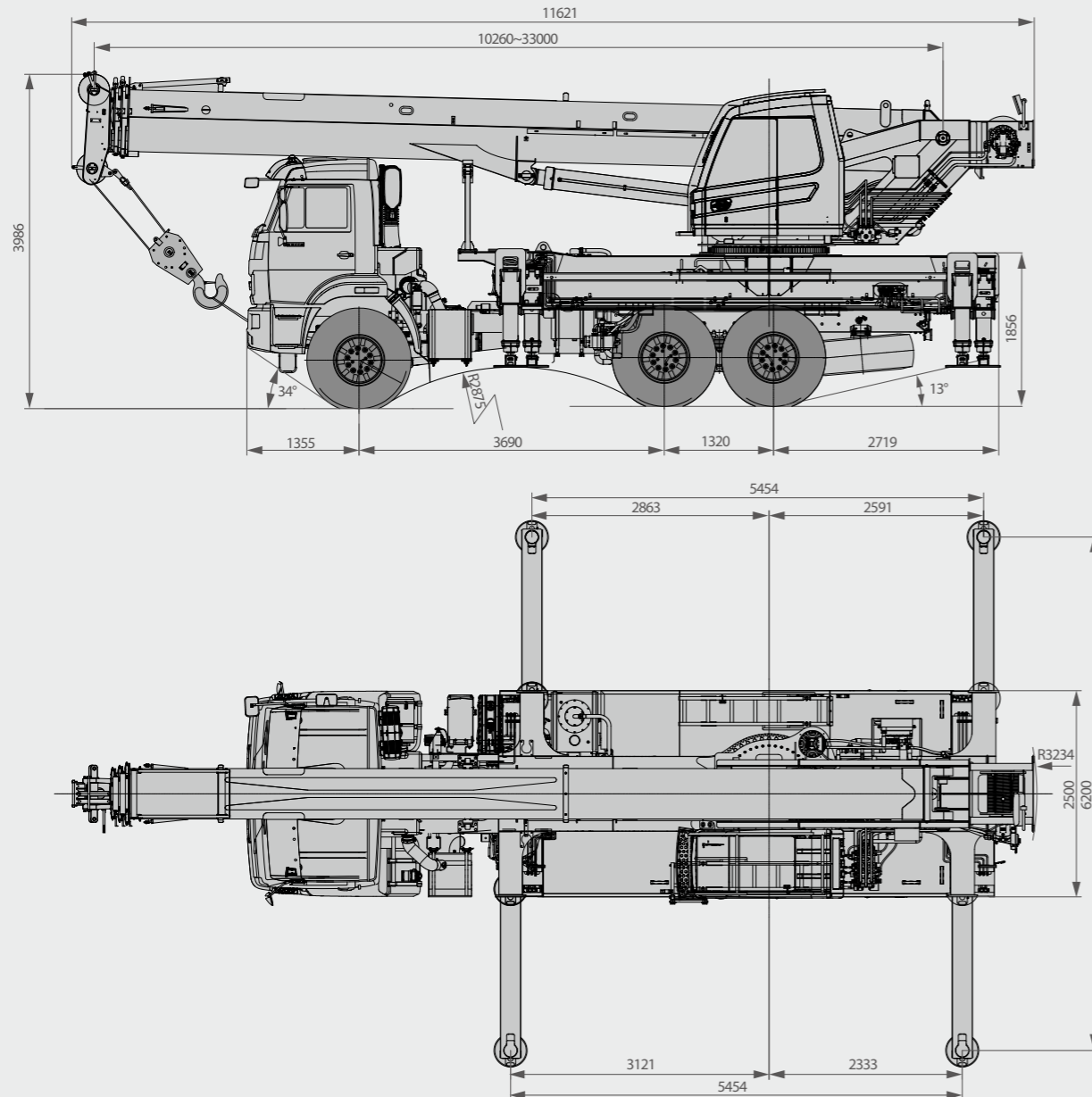
- Low temperature structure and key components including boom, slewing platform, cylinder, and reducer are as adaptable to -40°C environment. Your reliable partner even in extreme cold.

Reliable design method

- FEA+ testing & verification. The stress of boom, slewing platform, carrier frame and outriggers are calculated and verified by rigorous methods, ensuring the main structures to deliver the most reliable performance.



Overall Dimensions



Remark: The chassis dimensions vary depending on chassis brand customers prefer.
The ratings above are given by KAMAZ for reference.

Technical Specification- Mounted on KAMAZ chassis

CATEGORY	ITEM	UNIT	VALUE	
CAPACITY	Max. lifting capacity	t	25	
WEIGHT	Gross weight	kg	22500	
POWER	Engine model	-	KAMAZ-740.705-300(Euro 5)	
	Max. engine power	kW/rpm	221	
	Max. engine torque	N·m/rpm	1275	
DIMENSIONS	Overall length	mm	11621	
	Overall width	mm	2500	
	Overall height	mm	3986	
MAIN PERFORMANCE	Working temperature range	°C	≥-40	
	Min.rated lifting radius	m	3	
	Tail slewing radius	m	3.23	
	Boom sections (Qty.)	-	4	
	Boom shape	-	U shape	
	Max.lifting moment	Basic boom	kN·m	920
		Full-extension boom	kN·m	576
		Max.combination of boom + jib	kN·m	238
	Boom length	Basic boom	m	10.2
		Full-extension boom	m	33
		Max.combination of boom + jib	m	42
	Max.lifting height	Basic boom	m	10.8
		Full-extension boom	m	34.5
Max.combination of boom + jib		m	44.1	
Outrigger span (Longitudinal×Transverse)	m	5.45×6.2		
Jib offset	°	0, 15, 30		

Technical Parameters



Axle Load

Axle	1	2	3	Gross weight
Axle load/t	6.5	8	8	22.5
Remark	The ratings above are calculated when crane is mounted on KAMAZ chassis. Axle loads vary depending on chassis customers prefer.			



Hook

Load/t	Number of sheaves	Rope rate	Hook weight /kg
20	4	8	250



Operations

Item	Max.single rope lifting speed (empty load)	Rope diameter/length	Max. single line pull
Main winch	120m/min	14mm/163 m	3.1t
Slewing speed		2.3r/min	
Full luffing up/down time of boom		50s/50s	
Full extension/retraction time of boom		65s/40s	

Crane Introduction

superstructure



Operator's cab

- The cab is designed in ergonomic concept with deep consideration of convenience, safety, and comfort. Corrosion resistant bodywork with softened interior trim and extra large indoor space, the skylight, adjustable seat, electric windshield wiper, and LMI touch screen make working on the crane safer and more comfortable.



Boom & telescoping system

- Bending resistant structure welded by high tensile steel plate, featuring extra high stability. Telescoping realized by single cylinder with rope arranger, variable lengths available.



Hoist

- Electro proportional variable motor, triple benefits of hoist smoothness, excellent inching performance, and stepless speed regulation.



Luffing system

- Active luffing mechanism. Luffing angle: -1.5°~80°.



Hydraulics

- Main oil pump, motor, valve and other key hydraulic components are of high quality and high durability, ensuring hydraulics to function smoothly and reliably.



Control system

- Data display system: multiple sensors provide data feedback, realizing real-time monitoring. It helps you to monitor working status of the whole machine.



Outrigger

- H-type layout, four point support, easy to operate, highly stable, outrigger beam hydraulically telescoping.



Counterweight

- No fixed counterweight, movable units 1.5t+3.0t.



Safety equipment

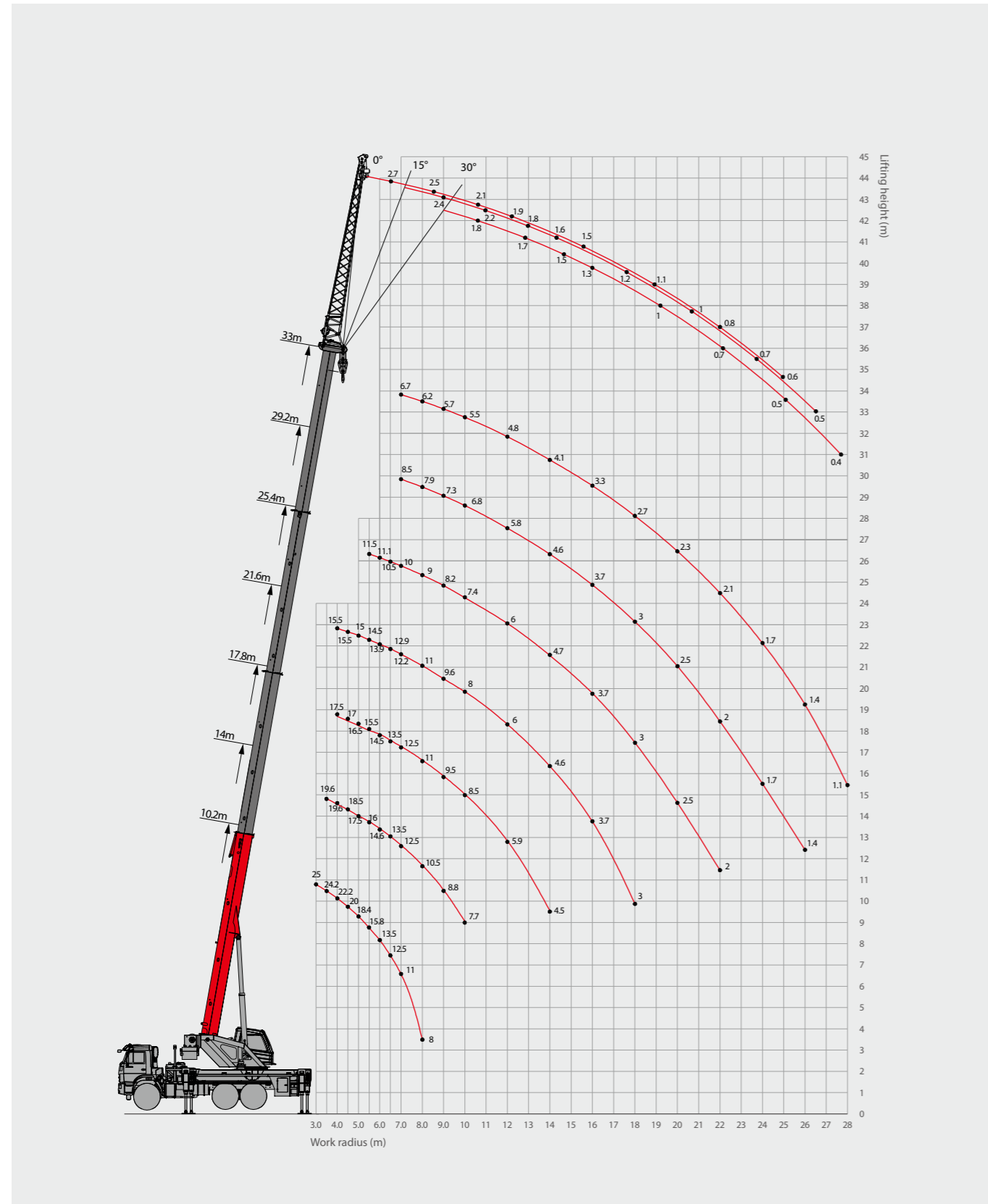
- Hydraulic balance valve, relief valve, two-way pilot-controlled valve are equipped for hydraulic system reliability.
- Three-circle protector at main winch, preventing wire rope from over-hoist down.
- Height limit switch at boom head, preventing wire rope from over-hoist up.
- Boom length & angle sensor and stress sensor help monitor crane working status. Motion of risks are cut off automatically with buzzer warning simultaneously.



Optional equipment at extra fees

- 9m jib.
- 3t auxiliary hook.
- Dextral gear pump.

Operating Range



Load Chart-Telescopic Boom



Unit: kg

Radius (m)	10.2	14	17.8	21.6	25.4	29.2	33	Radius (m)
3	25000							3
3.5	24200	19600						3.5
4	22200	19600	17500	15500				4
4.5	20000	18500	17000	15500				4.5
5	18400	17500	16500	15000				5
5.5	15800	16000	15500	14500	11500			5.5
6	13800	14600	14500	13900	11100			6
6.5	12500	13500	13500	12900	10500			6.5
7	11000	12500	12500	12200	10000	8500	6000	7
8	8000	10500	11000	11000	9000	7900	5800	8
9		8800	9500	9600	8200	7300	5500	9
10		7700	8000	8000	7400	6800	5200	10
12			5900	6000	6000	5800	4800	12
14			4500	4600	4700	4600	4100	14
16				3700	3700	3700	3300	16
18				3000	3000	3000	2700	18
20					2500	2500	2300	20
22					2000	2000	2100	22
24						1700	1700	24
26						1400	1400	26
28							1100	28
Telescoping status (%)								
2nd boom	0	16.7	33.3	50	66.7	83.3	100	2nd boom
3rd boom	0	16.7	33.3	50	66.7	83.3	100	3rd boom
4th boom	0	16.7	33.3	50	66.7	83.3	100	4th boom
Rope rate	8	7	6	5	4	3	3	Rope rate

Load Chart-Telescopic Boom



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Radius (m)	10.2	14	17.8	21.6	25.4	29.2	33	Radius (m)
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3.5	24200	18500						3.5
4	22200	18500	16000	14500				4
4.5	20000	18500	16000	14000				4.5
5	18400	17000	15000	13500				5
5.5	15800	15500	14500	13000	10200			5.5
6	13800	13500	13000	12000	10000			6
6.5	12500	12000	11500	10500	9000			6.5
7	11000	10500	9800	9500	8500	7200	6000	7
8		9000	8500	7800	7500	6600	5800	8
9		7000	6600	5800	5500	5300	5000	9
10		5500	5000	4700	4400	4100	4000	10
12			4200	3600	3100	2900	2800	12
14			3000	2900	2500	2200	2000	14
16				2000	1800	1700	1500	16
18				1500	1400	1100	1000	18
20					1000	900	900	20
22					800	700	700	22
24						600	600	24
26						500	500	26
28							400	28
Telescoping status (%)								
2nd boom	0	16.7	33.3	50	66.7	83.3	100	2nd boom
3rd boom	0	16.7	33.3	50	66.7	83.3	100	3rd boom
4th boom	0	16.7	33.3	50	66.7	83.3	100	4th boom
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4	22200	18500	16000	14500				4
4.5	20000	18500	16000	14000				4.5
5	18100	17000	15000	13500				5
5.5	15800	15500	14000	13000	10200			5.5
6	13100	12000	12000	12000	10000			6
6.5	11000	10000	9800	9500	9000			6.5
7	9800	8700	8500	8000	7500	7200	6000	7
8		7500	7000	6900	6500	6200	5800	8
9		6200	5800	5500	5200	5000	4500	9
10		5000	4600	4300	4000	3800	3500	10
12			3500	3300	3000	2700	2400	12
14			2800	2600	2300	2000	1700	14
16				1800	1500	1300	1100	16
18				1300	1000	800	700	18
20					650	600	500	20
22						500	400	22
Telescoping status (%)								
2nd boom	0	16.7	33.3	50	66.7	83.3	100	2nd boom
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3.5	22000	18500						3.5
4	18000	17800	15000	12000				4
4.5	16800	16000	15000	12000				4.5
5	13800	14000	14000	10500				5
5.5	11200	12000	11000	9000	7000			5.5
6	9300	10000	9000	7900	6800			6
6.5	8000	9000	8000	6300	5700			6.5
7	6800	7800	6800	5100	4500	4500	4500	7
8		6000	5700	4000	3300	3000	3000	8
9		4900	4500	3000	2800	2500	2300	9
10		4000	3500	2300	2000	1900	1800	10
12			3000	1700	1500	1300	1100	12
14			1700	1200	1000	1000	800	14
16				800	800	600	500	16
18				500	500			18
Telescoping status (%)								
2nd boom	0	16.7	33.3	50	66.7	83.3	100	2nd boom
3rd boom	0	16.7	33.3	50	66.7	83.3	100	3rd boom
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3	25000							3
3.5	22000	18500						3.5
4	18000	16000	15000	12000				4
4.5	16000	14000	12000	11000				4.5
5	13000	12000	11000	9500				5
5.5	10700	9200	8000	7500	6500			5.5
6	9000	7800	6800	6000	5000			6
6.5	7500	6800	6000	5500	4300			6.5
7	6200	5900	5500	5300	3800	3500	3500	7
8		4500	4000	3700	3200	2800	2400	8
9		3800	3300	3000	2600	2000	1600	9
10		3000	2500	2000	1500	1200	1000	10
12			2000	1500	1200	1000	600	12
14			1500	1100	900	600		14
16				700	600			16
18				400	300			18
Telescoping status (%)								
2nd boom	0	16.7	33.3	50	66.7	83.3	100	2nd boom
3rd boom	0	16.7	33.3	50	66.7	83.3	100	3rd boom
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3.5	20000	16000						3.5
4	16000	14000	12000	11000				4
4.5	14000	11500	10000	9300				4.5
5	12000	10500	9000	8200				5
5.5	10000	9000	7500	7000	6000			5.5
6	8000	7000	6000	5600	5000			6
6.5	5500	4800	4000	3800	3600			6.5
7	3500	3000	2500	2300	2000	2000	2000	7
8		2000	1800	1500	1100	1000	1000	8
9			1500	1100	800	600		9
10				700	600			10
12				400				12
Telescoping status (%)								
2nd boom	0	16.7	33.3	50	66.7	83.3	100	2nd boom
3rd boom	0	16.7	33.3	50	66.7	83.3	100	3rd boom
4th boom	0	16.7	33.3	50	66.7	83.3	100	4th boom
Rope rate	8	7	6	5	4	3	3	Rope rate

Load Chart-Fixed Jib



Unit: kg

Telescopic boom + jib length(m)							
Boom angle(°)	0°		15°		30°		Boom angle(°)
	Radius (m)	Load (kg)	Radius (m)	Load (kg)	Radius (m)	Load (kg)	
78°	6.6	2700	8.8	2400	10.8	1800	78°
75°	8.8	2510	10.9	2220	12.8	1750	75°
72°	10.9	2140	13	1830	14.8	1520	72°
70°	12.3	1910	14.3	1570	16.1	1350	70°
65°	15.7	1450	17.6	1240	19.2	1000	65°
60°	18.9	1080	20.8	1020	22.2	750	60°
55°	22	800	23.7	720	25.2	560	55°
50°	24.9	580	26.5	510	27.8	400	50°

Remark:

1. Value listed are the max. capacity when the crane is in a level condition on solid ground or surface;
2. Radii listed are real radii with boom deflection considered;
3. Value above are calculated with hooks and lifting slings considered (250kg main hook block, 85kg aux. hook block);
4. Load value is given according to the larger radius or boom length value when the actual radius or boom length falls between two numbers above.



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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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