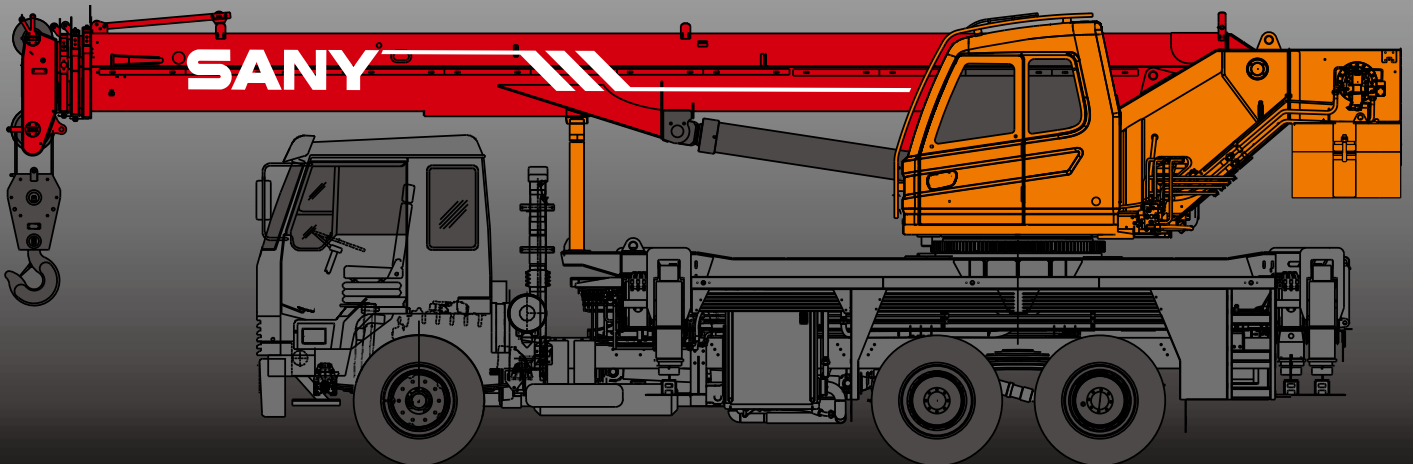


SPC300

SPC300 TRUCK CRANE
30 TONS LIFTING CAPACITY

Quality Changes the World



SANY

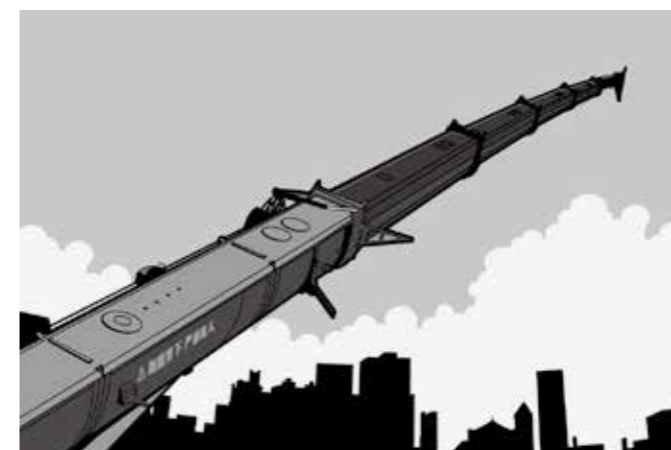
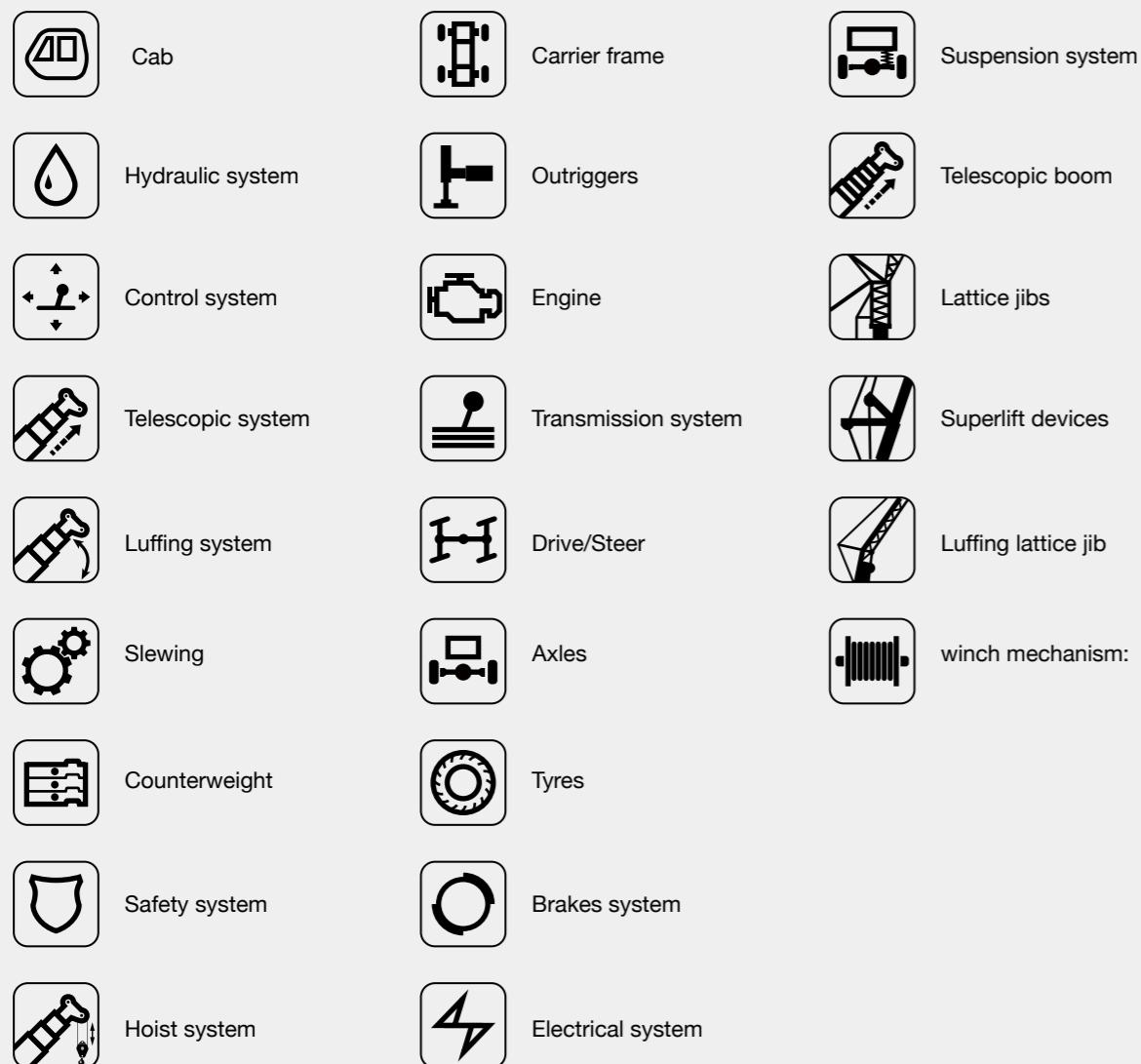
■ SANY Automobile Hoisting Machinery is one of the core business units of Sany Heavy Industry, mainly engaged in the research and development of high-end, mid-to-large tonnage crane series, including mobile crane, crawler crane, tower crane and loader crane. It has two industrial parks in Ningxiang and Huzhou. Since entering the market, the products of Sany Automobile Hoisting Machinery have received worldwide recognition with advanced technology, lean manufacturing, high reliability and excellent service.



SANY TRUCK CRANE

CONTENT

- 04 Icon
- 05 Selling Points
- 06 Introduction
- 08 Dimension
- 09 Technical Parameter
- 10 Operation Condition
- 11 Load Chart
- 15 Wheel Crane Family Map



Ultra long, super strong and highly sensitive load lifting capacity

Four-section boom of high strength steel structure and optimized U-shaped cross section reduces weight significantly with higher safety rates. Jib mounting angles are 0°, 15°, and 30° which ensures fast and convenient change-over between different operating conditions so as to improving working efficiency of the machine.



Highly efficient, stable, energy-saving, and adjustable hydraulic system







Triple gear pump, load feedback and constant power control are applied to provide strong lifting capacity and good micro-mobility. Unique steering buffer design is applied to ensure stable braking operation.








Safe, stable, advanced, and intelligent electric control system

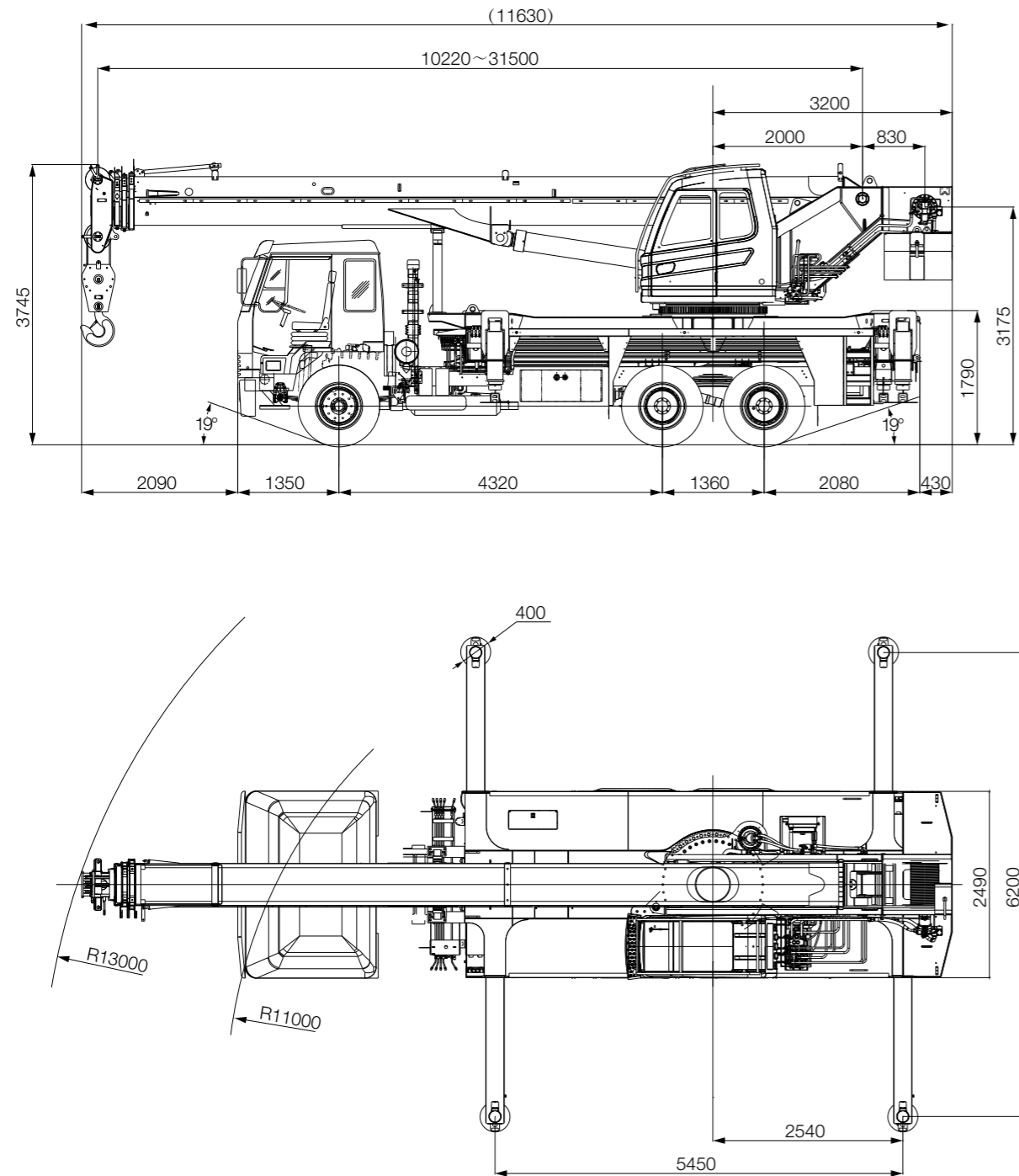
Self-developed controller SYMC specially for engineering machinery is configured. The adoption of CAN-bus full-digital network control technology ensures stable control signal, simple harness, and high reliability. Timely feedback of data information can achieve the monitoring of the overall working status in real-time; the load moment limiter equipped with the comprehensive intelligent protection system is used with accuracy within 3% to provide a comprehensive logic and interlock control, thus ensuring more safe and reliable operation.

Superstructure

-  **Cab**
- It is made of anti-corrosion steel plate with ergonomic design such as full-coverage soften interior, panoramic sunroof and, adjustable seats etc., and humanized design providing more comfortable and relaxing operation experience. The display of load moment limiter integrates main console and operation display system, which clearly show the data of all operating superstructure conditions for lifting operation.
-  **Hydraulic system**
- High-quality key hydraulic components such as main oil pump, rotary pump, main valve, winch motor, and balancing parts etc. are adopted to achieve stable and reliable operation of the hydraulic system. Superior operation performance is guaranteed by accurate parameter matching.
 - Main valve has flow compensation and load feedback control function, enabling stable and convenient control of single action and combined action under different operation conditions
 - Winch adopts the electronically controlled variable motor to ensure high operation efficiency. Max. single line speeds of winches is up to 115m/min.
 - Slewing system is equipped with the integrated slewing buffer valve to ensure more stable starting and control of the slewing operation and excellent micro-mobility.
-  **Control system**
- With fully security protection system, winches are equipped with over-roll out limiter and height limiters to prevent over-rolling out and over-hoisting of steel rope, including tip-over and limit angle protection.
 - Load moment limiter: The adoption of high intelligent load moment limiter system can comprehensively protect lifting operation, ensuring accurate, stable and comfort operation.
-  **Luffing system**
- Dead-weight luffing provides more stable luffing operation at low energy loss.
 - Luffing angle: -2°~78°.
-  **Telescopic system**
- Four-section boom is applied with basic boom length of 10.22m, full-extended boom length of 32m, jib length of 8m and lifting height of fully extended boom length of 32.5m respectively. Max. lifting height is 40.5m including jib. It is made of fine grain high-strength steel with U-shaped cross section and with telescopic operation controlled independent by cylinder rope.
-  **Slewing system**
- 360° rotation can be achieved with Max. slewing speed of 2.5r/min. Hydraulic controlled proportional speed adjustment is applied to provide stable and reliable operation of the system. Unique rotary buffer design ensures more stable braking.

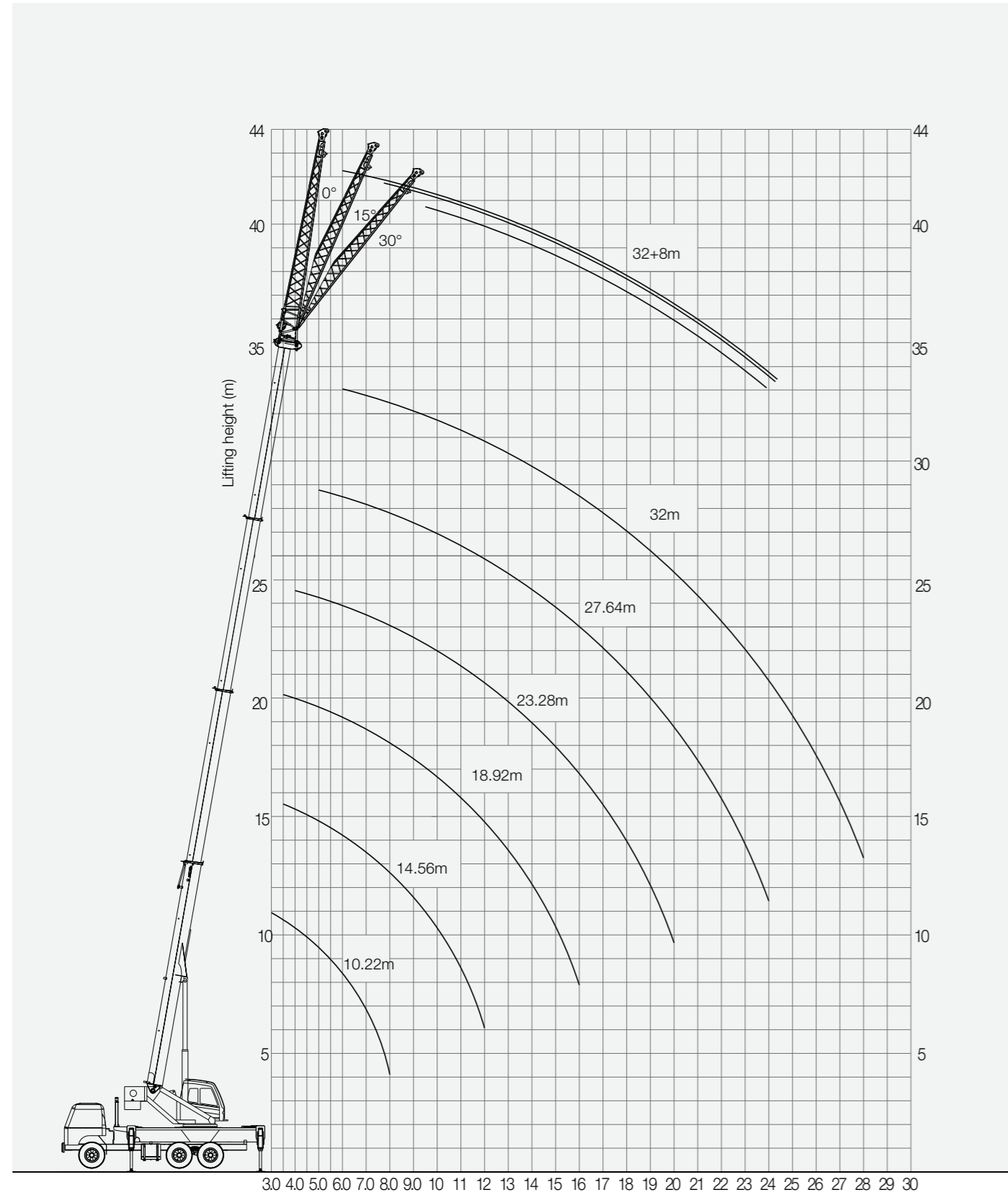
Superstructure

-  **Hoisting system**
- The winch adopts the high-pressure automatic variable plunger motor, enabling automatic switch-over between low load high speed mode and high load low speed mode, and ensuring highly efficient operation and stable lifting and lowering of the load.
 - One main hook: 360Kg, and the Max. lifting capacity is 30t. Wire rope of winch: left-handed wire rope 16-35W×7-1960USZ 175m.
-  **Safety system**
- Load moment limiter: Load moment limiter calculation system based on lifting load mechanical model is established using an analytical mechanics method with rated lifting accuracy up to ±3% through on-line non-load calibration, providing full protection to lifting operation. In case of overload operation, system will automatically issue an alarm to provide safety protection for manipulation.
 - Hydraulic system is configured with the balance valve, overflow valve and two-way hydraulic lock etc. components, thus achieving stable and reliable operation of the hydraulic system.
 - Winch is equipped with over roll-out limiter to prevent over rolling-out of wire rope.
 - Boom is equipped with height limiters respectively to prevent over-hoisting of wire rope.
 - Boom head is equipped with anemometer and press sensor to indicate the working condition of whole crane in real-time, giving an alarm and cutting off the dangerous action automatically.
-  **Counterweight**
- Counterweight is 1500kg, flexible counterweight is 2500kg.
-  **The vice carrier frame**
- Designed and manufactured by SANY, anti-torsion box structure is welded by fine-grain high-strength steel plate, to provide strong load bearing capacity.
-  **Outriggers**
- Four-point supporting of the H-shaped outriggers ensures easy operation and strong stability with max. span up to 5.45m×6.2m. They are made of fine-grain high-strength steel sheet with horizontal single-cylinder rope line telescoping for outrigger. Vertical cylinder of outrigger adopts bi-directional hydraulic locks to improve safety.



Type	Item	Parameter	
Capacity	Max. lifting capacity	30t	
Dimensions	Overall length	11630mm	
	Overall width	2490mm	
	Overall height	3745mm	
	Axle distance	Axle-1,2 Axle-2,3	4320mm 1360mm
Weight	Overall weight	25000kg	
	Axle load	Front axle Rear Axle	6000kg 19000kg
	Rated power		132kW/2500rpm
	Rated torque		675N.m/1500rpm
Traveling	Max.traveling speed		75km/h
	Turning radius	Min.turning radius	11m
		Min.turning radius of boom head	13m
	Wheel formula		6×4
	Approach angle		19°
	Departure angle		19°
Max.gradeability		26%	
Main Performance Data	Min.rated range		3m
	Boom section		4
	Boom shape		U-shaped
	Max.lifting moment	Base boom	1026kN·m
		Full-extend boom	530kN·m
	Boom length	Base boom	10.22m
Full-extend boom		32m	
Outrigger span (Longitudinal×Transversal)		5.45×6.2m	
Working speed	Max.single rope lifting speed of winch (no load)		115m/min
	Full extension/retraction time of boom		70/50s
	Full lifting/descending time of boom		65/50s
	Slewing speed		2.5r/min

SPC300 Working radius-lifting height curve



Unit:Kg

Prerequisites:

- ① Boom operating condition(fully extended boom length),min.length is 10.22 and.max.length is 32m
- ② The span of outrigger is 5.45x6.2m
- ③ 240°rotation is applied
- ④ Counterweight is 1.5T

Working range(m)	Main boom						Working range(m)
	10.2	14.6	18.9	23.3	27.6	32	
3	30000	19300					3
3.5	27600	19300	14700				3.5
4	24600	18500	14600				4
4.5	22000	18000	14500	11000			4.5
5	20000	17000	14000	10800	8800		5
5.5	18100	15500	13000	10600	8500		5.5
6	15800	14700	12000	10100	8200	6800	6
6.5	13700	13000	11500	9800	8000	6700	6.5
7	12100	11500	11000	9200	7500	6500	7
8	9000	8800	8600	8400	7000	6100	8
9		7400	7200	7100	6500	5600	9
10		6300	6000	6000	5800	5100	10
12		4800	4500	4300	4200	4100	12
14			3500	3500	3400	3300	14
16				2800	2700	2700	16
18				2300	2200	2200	18
20					1800	1900	20
22						1400	22
Number of lines	8	6	6	4	3	3	Number of lines
Telescoping condition(%)							
I	100%	100%	100%	100%	100%	100%	I
II	0	20%	40%	60%	80%	100%	II
III	0	20%	40%	60%	80%	100%	III
IV	0	20%	40%	60%	80%	100%	IV

1. All rated loads have been tested to and meet minimum requirements of IS 4573-1982-Specification for Power Driven Mobile Cranes, and do not exceed 85% of the tipping load on outriggers as determined by SAE J765 OTC80 Crane stability Test Code.
2. The weight of hookblock, slings and all similarly used load handing devices must be added to the weight of the load.
3. Radius shown in the table are the actual radius when working.
4. When the crane works in the outside, It can be used only when the wind power is less than 10m/s.
5. All capacities are for crane on firm, level surface. It may be necessary to have structural supports under the outrigger floats to spread the load to a larger bearing surface.
6. For outrigger operation, all outriggers shall be full extended with tyres raised free of ground before raising the boom or lifting loads.

Unit:Kg

Prerequisites:

- ① Boom operating condition(fully extended boom length),min.length is 10.22 and.max.length is 32m
- ② The span of outrigger is 5.45x6.2m
- ③ 360°rotation is applied
- ④ Counterweight is 1.5T

Working range(m)	Main boom						Working range(m)
	10.2	14.6	18.9	23.3	27.6	32	
3	25700	16000					3
3.5	22500	16000	13500				3.5
4	19800	15500	13000				4
4.5	17800	15500	13000	10500			4.5
5	15800	14500	12600	10000	8500		5
5.5	14300	13500	12000	10000	8300		5.5
6	12800	12500	11400	9400	7900	6300	6
6.5	11000	11000	10600	8700	7600	6100	6.5
7	9200	9800	9800	8000	7100	6000	7
8	7200	7600	7800	7200	6800	5600	8
9		6100	6100	6100	6000	5200	9
10		5350	5000	5000	5000	4700	10
12		3750	3600	3600	3500	3500	12
14			2600	2600	2700	2600	14
16				1950	1850	2000	16
18				1600	1500	1600	18
20					1100	1200	20
22						750	22
Number of lines	8	6	6	4	3	3	Number of lines
Telescoping condition(%)							
I	100%	100%	100%	100%	100%	100%	I
II	0	20%	40%	60%	80%	100%	II
III	0	20%	40%	60%	80%	100%	III
IV	0	20%	40%	60%	80%	100%	IV

1. All rated loads have been tested to and meet minimum requirements of IS 4573-1982-Specification for Power Driven Mobile Cranes, and do not exceed 85% of the tipping load on outriggers as determined by SAE J765 OTC80 Crane stability Test Code.
2. The weight of hookblock, slings and all similarly used load handing devices must be added to the weight of the load.
3. Radius shown in the table are the actual radius when working.
4. When the crane works in the outside, It can be used only when the wind power is less than 10m/s.
5. All capacities are for crane on firm, level surface. It may be necessary to have structural supports under the outrigger floats to spread the load to a larger bearing surface.
6. For outrigger operation, all outriggers shall be full extended with tyres raised free of ground before raising the boom or lifting loads.

Unit:Kg

Prerequisites:

- ① Boom operating condition(fully extended boom length),min.length is 10.22 and.max.length is 32m
- ② The span of outrigger is 5.45x6.2m
- ③ 240°rotation is applied
- ④ Counterweight is 4T

Working range(m)	Main boom						Working range(m)
	10.2	14.6	18.9	23.3	27.6	32	
3	30000	21300					3
3.5	27600	21000					3.5
4	24600	19800	17700				4
4.5	22000	18800	16400	11000			4.5
5	20500	17200	15600	10800	8800		5
5.5	18400	16000	14600	10600	8500		5.5
6	16800	15000	13600	10300	8500	7300	6
6.5	14800	13800	12600	9800	8200	7200	6.5
7	13700	12700	12000	9500	8000	7100	7
8	11200	11000	10500	8400	7300	6800	8
9		9200	9100	7900	6700	6200	9
10		7900	8100	7300	6200	5700	10
12		6000	5800	5800	5200	4800	12
14			4500	4500	4500	4200	14
16				3500	3500	3500	16
18				2800	2800	2800	18
20					2300	2400	20
22						1900	22
Number of lines	8	6	6	4	3	3	Number of lines
Telescoping condition(%)							
I	100%	100%	100%	100%	100%	100%	I
II	0	20%	40%	60%	80%	100%	II
III	0	20%	40%	60%	80%	100%	III
IV	0	20%	40%	60%	80%	100%	IV

1. All rated loads have been tested to and meet minimum requirements of IS 4573-1982-Specification for Power Driven Mobile Cranes, and do not exceed 85% of the tipping load on outriggers as determined by SAE J765 OTC80 Crane stability Test Code.
2. The weight of hookblock, slings and all similarly used load handing devices must be added to the weight of the load.
3. Radius shown in the table are the actual radius when working.
4. When the crane works in the outside, It can be used only when the wind power is less than 10m/s.
5. All capacities are for crane on firm, level surface. It may be necessary to have structural supports under the outrigger floats to spread the load to a larger bearing surface.
6. For outrigger operation, all outriggers shall be full extended with tyres raised free of ground before raising the boom or lifting loads.

Unit:Kg

Prerequisites:
 ① Boom operating condition(fully extended boom length),min.length is 10.22 and.max.length is 32m
 ② The span of outrigger is 5.45x6.2m
 ③ 360°rotation is applied
 ④ Counterweight is 4T

Working range(m)	Main boom						Working range(m)
	10.2	14.6	18.9	23.3	27.6	32	
3	30000	17000					3
3.5	23500	17000	14500				3.5
4	20800	16500	14000				4
4.5	18800	16500	14000	10500			4.5
5	16800	15500	13600	10000	8500		5
5.5	15300	14500	13000	10000	8300		5.5
6	13800	13500	12400	9500	8100	6500	6
6.5	11900	11900	11600	9000	7800	6300	6.5
7	10000	10500	10500	8500	7300	6200	7
8	8300	8600	8600	8000	6900	5800	8
9		7000	7000	6500	6300	5400	9
10		6000	6000	5500	5500	5100	10
12		4300	4300	4200	4100	4000	12
14			3200	3200	3100	3100	14
16				2300	2300	2300	16
18				1800	1800	1800	18
20					1400	1400	20
22						900	22
Number of lines	8	6	6	4	3	3	Number of lines
Telescoping condition(%)							
I	100%	100%	100%	100%	100%	100%	I
II	0	20%	40%	60%	80%	100%	II
III	0	20%	40%	60%	80%	100%	III
IV	0	20%	40%	60%	80%	100%	IV

- All rated loads have been tested to and meet minimum requirements of IS 4573-1982-Specification for Power Driven Mobile Cranes, and do not exceed 85% of the tipping load on outriggers as determined by SAE J765 OTC80 Crane stability Test Code.
- The weight of hookblock, slings and all similarly used load handing devices must be added to the weight of the load.
- Radius shown in the table are the actual radius when working.
- When the crane works in the outside, It can be used only when the wind power is less than 10m/s.
- All capacities are for crane on firm, level surface. It may be necessary to have structural supports under the outrigger floats to spread the load to a larger bearing surface.
- For outrigger operation, all outriggers shall be full extended with tyres raised free of ground before raising the boom or lifting loads.

Unit:Kg

Prerequisites:
 ① Boom operating condition(fully extended boom length + jib length),max. length is 32m+8m
 ② The span of outriggers is 5.45x6.2m
 ③ 240°rotation is applied

Main boom angle	Main boom+Jib			Main boom angle
	Compensation angle 0°	Compensation angle 15°	Compensation angle 30°	
78°	2700	2400	1800	78°
75°	2510	2220	1750	75°
72°	2140	1830	1520	72°
70°	1910	1570	1350	70°
65°	1450	1240	1000	65°
60°	1080	1020	750	60°
55°	800	720	560	55°
50°	580	500	400	50°

TRUCK CRANE

STC200 Maximum Load Capacity: 20t Telescopic Boom: 4 Sections, 10.6-33m
 STC250 Maximum Load Capacity: 25t Telescopic Boom: 4 Sections, 10.66-33.5m
 STC250H Maximum Load Capacity: 25t Telescopic Boom: 5 Sections, 10.5-39.5m
 STC300S Maximum Load Capacity: 30t Telescopic Boom: 5 Sections, 10.6-40.5m
 STC300TH Maximum Load Capacity: 30t Telescopic Boom: 4 Sections, 10.6-33.5m
 STC300H Maximum Load Capacity: 30t Telescopic Boom: 5 Sections, 10.5-39.5m
 STC500 Maximum Load Capacity: 50t Telescopic Boom: 5 Sections, 11.5-43m
 STC550 Maximum Load Capacity: 55t Telescopic Boom: 5 Sections, 11.5-43m
 STC600S Maximum Load Capacity: 60t Telescopic Boom: 5 Sections, 11.3-43.5m
 STC750 Maximum Load Capacity: 75t Telescopic Boom: 5 Sections, 11.8-48m
 STC800S Maximum Load Capacity: 80t Telescopic Boom: 5 Sections, 12.2-47m
 STC1000 Maximum Load Capacity: 100t Telescopic Boom: 5 Sections, 13.5-52m
 STC1000C Maximum Load Capacity: 100t Telescopic Boom: 6 Sections, 13.25-60m
 STC1000S Maximum Load Capacity: 100t Telescopic Boom: 5 Sections, 12.26-56m
 STC1200S Maximum Load Capacity: 120t Telescopic Boom: 7 Sections, 12.6-63.5m
 STC1300C Maximum Load Capacity: 130t Telescopic Boom: 5 Sections, 13.3-60m
 STC1600 Maximum Load Capacity: 160t Telescopic Boom: 5 Sections, 13.4-62m
 STC2200 Maximum Load Capacity: 220t Telescopic Boom: 5 Sections, 14.55-68m

ALL TERRAIN CRANE

SAC1800 Maximum Load Capacity: 180t Telescopic Boom: 5 Sections, 15.5-62m
 SAC2200 Maximum Load Capacity: 220t Telescopic Boom: 6 Sections, 13.5-62m
 SAC2600 Maximum Load Capacity: 260t Telescopic Boom: 6 Sections, 15.65-73m
 SAC3000 Maximum Load Capacity: 300t Telescopic Boom: 7 Sections, 15.4-83m
 SAC3500 Maximum Load Capacity: 350t Telescopic Boom: 6 Sections, 15.2-70m
 SAC6000 Maximum Load Capacity: 600t Telescopic Boom: 7 Sections, 17.1-90m

ROUGH-TERRAIN CRANE

SRC250 Maximum Load Capacity: 25t Telescopic Boom: 4 Sections, 9.9-31.5m
 SRC350 Maximum Load Capacity: 35t Telescopic Boom: 4 Sections, 10-31.5m
 SRC650 Maximum Load Capacity: 55t Telescopic Boom: 4 Sections, 11.25-34.5m
 SRC650H Maximum Load Capacity: 55t Telescopic Boom: 5 Sections, 11.5-43m
 SRC750 Maximum Load Capacity: 75t Telescopic Boom: 5 Sections, 11.8-45m
 SRC1200 Maximum Load Capacity: 120t Telescopic Boom: 5 Sections, 13-49m



Quality Changes the World

SANY AUTOMOBILE HOISTING MACHINERY

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For more information, please visit: www.sanygroup.com

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