SANY®

STC800

SANY Truck Crane
80 Tons Lifting Capacity

Quality Changes the World



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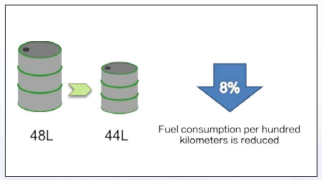
Superior Lifting Capacity

- Five section, U-type boom. Fully extended length is 50m;
- With an 8m outrigger span and 15.65t of counterweight, the lifting performance is excellent.

Superb Carrier Performance

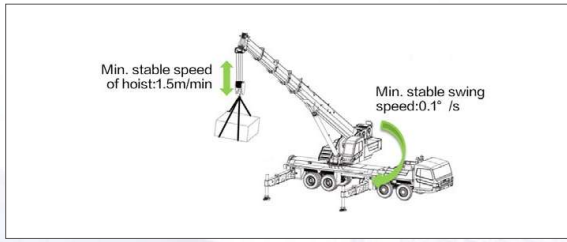
- For superior roadability, the newly developed carrier has a width of 2.8 meters. The rectangular box frame is wider and built with heavier material to provide superior resistance to bending and torque loads;
- The high horsepower engine, mated to a 10-speed gearbox and a synchro, heavy bearing axle, will tackle a maximum gradient of 44%. Excellent fuel economy at 44L per hundred kilometers.





Efficient and Energy-saving Hydraulic System

- Imported oil pump, hoist motor, and load sensing hydraulic systen allows precise swing (0.1°/s) and hoist speed (1.5m/min) control Intelligent flow compensation can smooth the compound movemen and enhance the flow usage 20%;
- Compares to hydraulic system, the electronic control system reduce energy consumption by 15% during operation while enhances worl efficiency by 30% during heavy load operation;
- The use of an intelligent, pressure and flow compensated hydrauli system allows smooth, predictable multi-function operation with up to a 20% increase in pump flow.

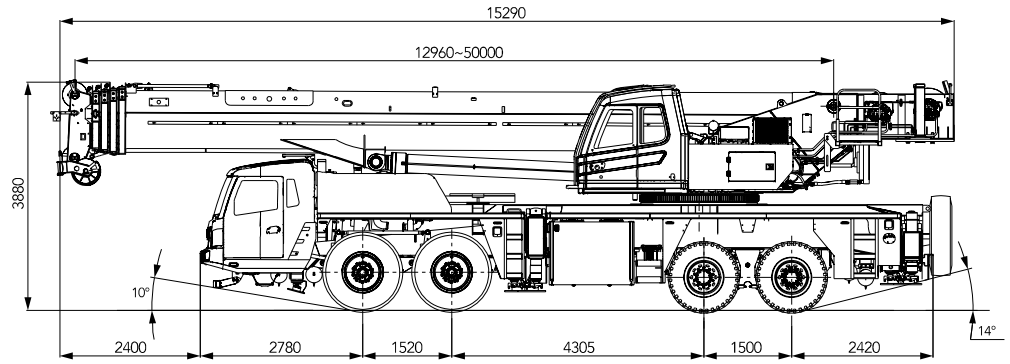


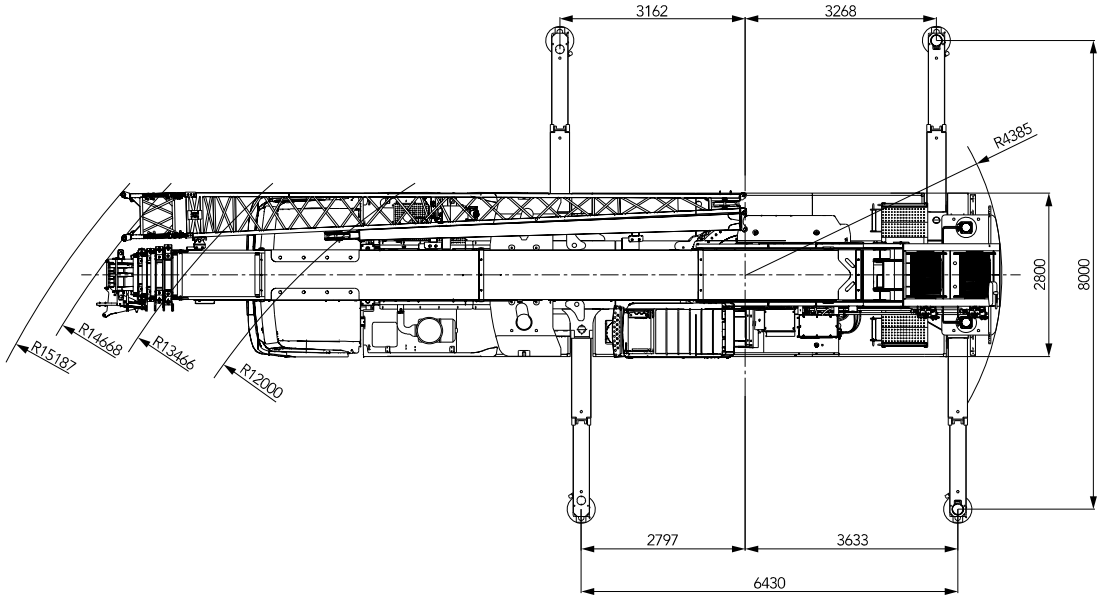
50
Fully extended boom length 50m

8
Outrigger span:8m

44
Max. gradient:44%

Overall Dimensions





Type	Item	
Dimensions	Total length of crane	
	Total width of crane	
	Total height of crane	
Weight	Total weight of crane	
	Axle load	One and two
		Three and fo
Power	Max. engine power	
	Max. engine output torque	
Travel	Maximum travel speed	
	Min. turning radius	
	Approach angle	
	Departure angle	
	Max. gradient	
	Fuel consumption per hundred kilometer	
Main performance specifications	Max. rated lifting load	
	Maximum turntable swing radius	
	Max. lifting torque	Minimum bo
		Maximum bo
	Outrigger span (transverse x longitudinal)	
	Boom length	Minimum bo
		Maximum bo
		Maximum bo
Working speed	Max speed, main hoist, single line, no loa	
	Max speed, aux hoist, single line, no load	
	Boom's full extending/Retracting time	
	Boom's full raising/Lowering time	
	Swing speed	

Technical Parameters

Axle Load

Axle	1	2	3	4	Total Weight
Axle load/t	12	12	13	13	50
Remarks	without main or auxiliary hook				

Hook

Lifting Capacity	Pulleys	Ropes	Hook Weight (kg)
80	6	12	750
30	3	6	320
7.5	-	1	160

Main Movement Specifications

Item		Parameter	Diameter/Length of Wire Rope	Max. Tension of Single Strand
Main Hoist		Single line speed 0-130m/min	20mm/250m	6.67t
Auxiliary Hoist		Single line speed 0-130m/min	20mm/145m	6.67t
Slewing		0-1.8r/min		
Raising and lowering radius		65s/90s (0-80°)		
Telescoping		140s/160s (12.96m-50m)		
Outrigger jack	Retracting	35s		
	Extending	35s		
Outrigger beam	Retracting	20s		
	Extending	25s		

Carrier

- Sany manufactured four-axle carrier, 8 x 4 x 4 types, stage IV/ stage V of National emission standard engine, 10-speed gearbox.

Crane Frame

- Designed and manufactured by Sany. Introducing the rectangle-section structure. The crane frame is heightened and widened Rigidity is enhanced by 25%. The capacity is significantly improved over the through-type crane frame.

Outrigger

- H-type outrigger beams with 4-point support. Using fine grained high strength steel, the fully-hydraulic outriggers offer easy operation. The transverse and longitudinal span of 6.43m x 8m provides excellent stability.

Turntable Structure

- Manufactured with high-strength steel, the box-type frame structure enhances rigidity by 30%. The swing bearing is exceptionally strong and smooth. Its large diameter contributes to enhanced stability.

Hydraulic System

- Load sensing hydraulic system is equipped with a variable displacement piston pump and three gear pumps.

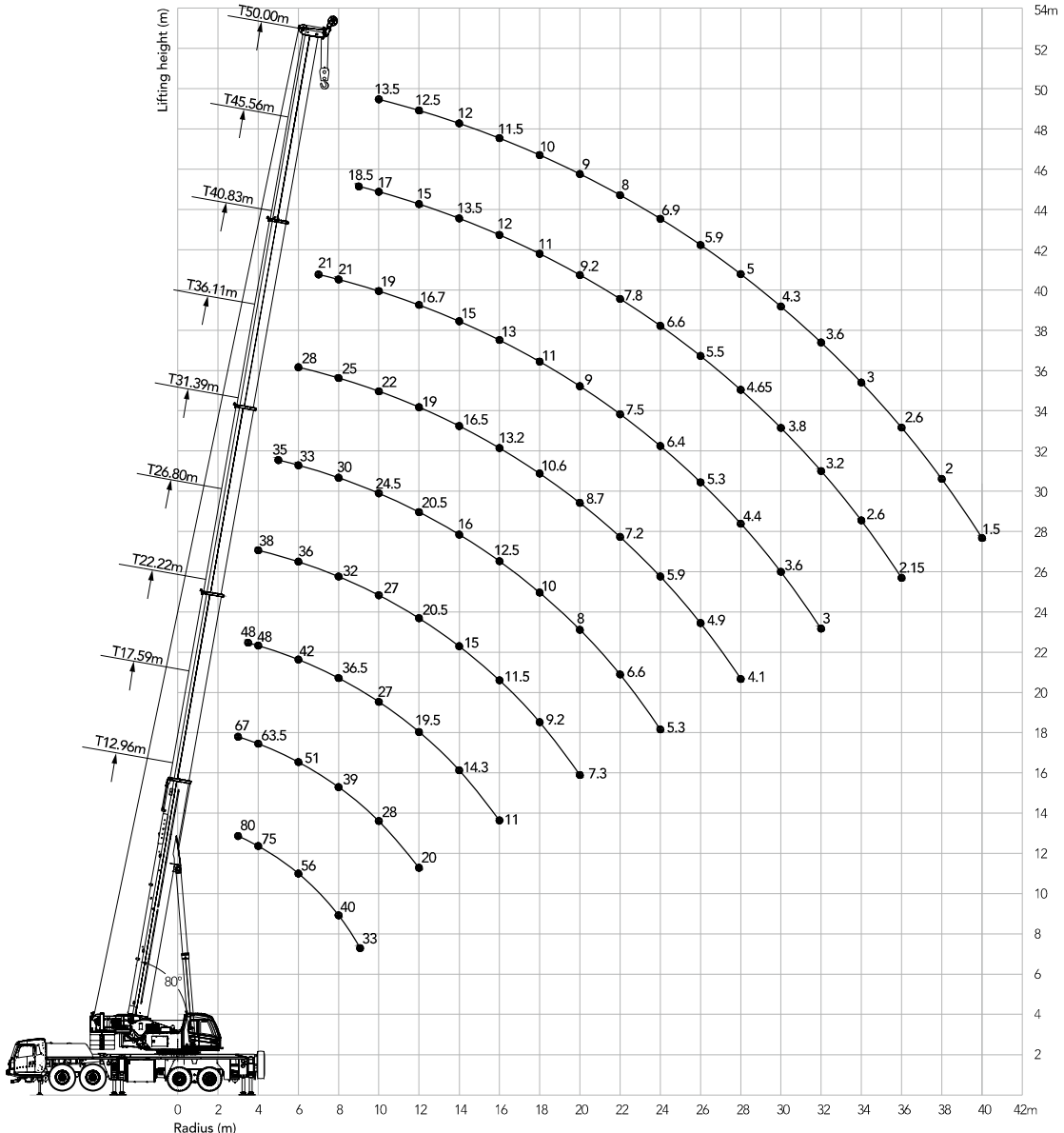
Operating system

- Superstructure swing, boom and hoists are controlled by two electronic proportional handles, engine speed and boom telescope are controlled by pedals while cab tilt and other auxiliary functions are controlled by control panel rocker switches.

Lifting System

- The dual planetary hoist drive is driven by an electronically controlled, variable displacement piston motor. Equipped with a spring applied brake and counterbalance valve to prevent overrun while lowering a load.

Boom Operating Range

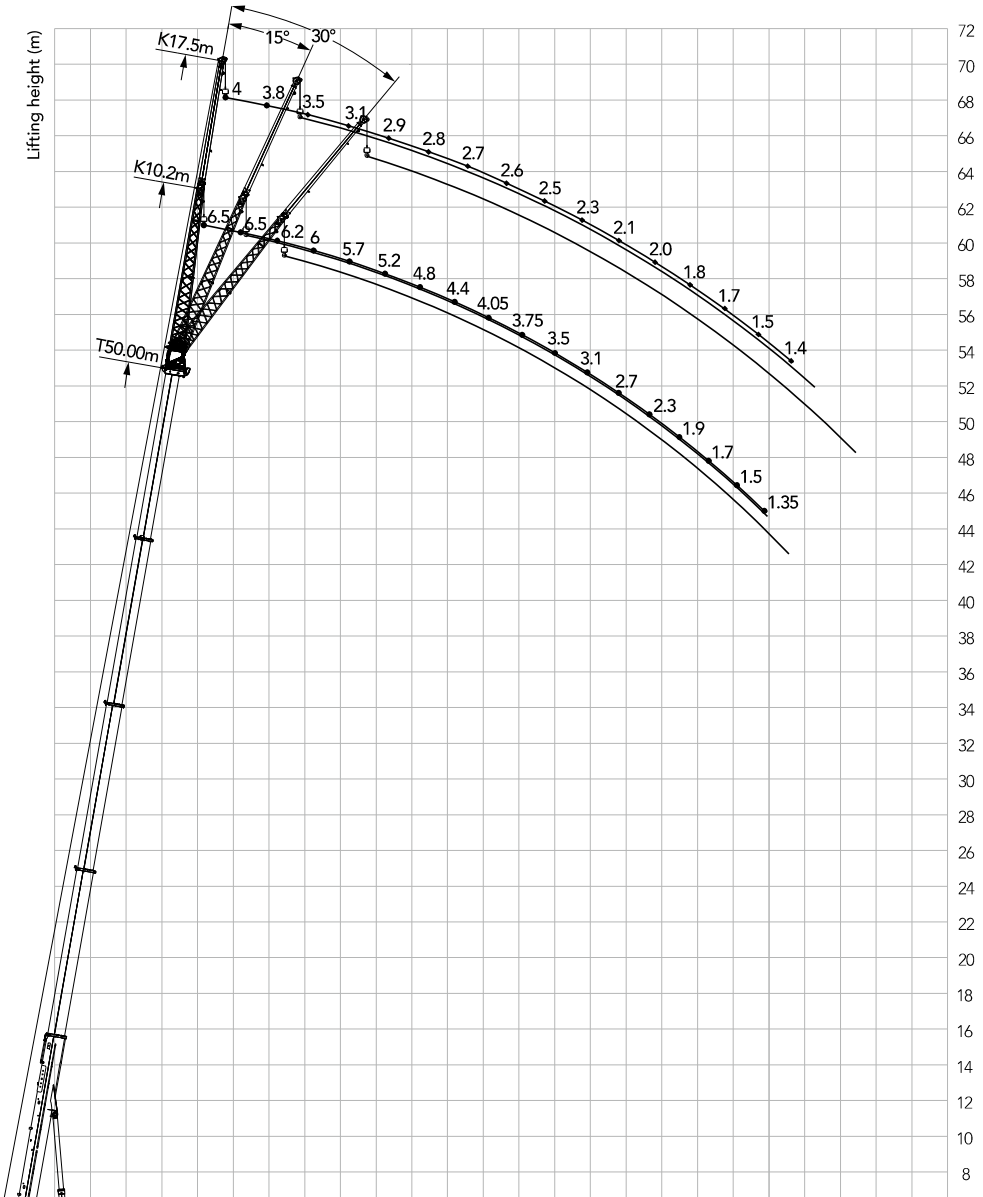


Unit: t

15.65t counterweight, fully extended outrigger, 360° operation

Radius(m)	12.96	17.59	22.22	26.8
3	80	67		
3.5	77	65	48	
4	75	63.5	48	38
4.5	69	61	48	38
5	63	58	46	38
5.5	58	53	44	37
6	56	51	42	36
7	46	45	40	34
8	40	39	36.5	32
9	33	33	32.5	29
10		28	27	27
11		23	22.5	23.2
12		20	19.5	20.5
14			14.3	15
16			11	11.5
18				9.2
20				7.3
22				
24				
26				
28				
30				
32				
34				
36				
38				
40				
Parts of line	12	11	8	7
1# cylinder	0	50	100	100
2# cylinder	0	0	0	16.5

Jib Operating Range



Unit: t

15.65t counterweight, fully extended main boom (m) + jib (m), fully extended outrigger, operation at side or at the back

Working Elevation Angle(°)	50+10.2		
	0°	15°	30°
80	6.5	5	4.5
78	6.5	5	4.5
76	6.2	4.8	4.1
74	6	4.5	3.9
72	5.7	4.2	3.7
70	5.2	3.9	3.6
68	4.8	3.7	3.3
66	4.4	3.5	3.1
64	4.05	3.3	3
62	3.75	3.05	2.9
60	3.5	2.9	2.7
58	3.1	2.7	2.55
56	2.7	2.4	2.25
54	2.3	2.1	2.05
52	1.9	1.8	1.75
50	1.7	1.6	1.55
48	1.5	1.4	1.3
46	1.35		
Ratio			
Hook			

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—Gent information—

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.

Any change in the technical parameters and configuration due to advancement in technology may occur without prior notice. The machine in the figures may include auxiliary equipment. This brochure is for reference only, and goods in kind shall prevail.
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