



Quality Changes the W

Superior lifting capacity

- Five section, U Shaped main boom, The length of full extended main boom is 50 meters long, the longest in the industry.
- The longitudinal span is 8m with 16.1t full counterweight, the lifting capacity is leading the industry over 15%.

High bearing capacity of chassis

- Prand new chassis with 2.8m width, the frame with rectangular cross section is more higher and wider, The lifting capacity of anti-torsional and anti-bending have been achieved comprehensive enhancement.
- It adopts Dongfeng Cummins engine with 375 P, 10 MT Faster transmission with synchronizer, ABS, Front tire(axle 1,2): 385/95R25 , Rear tire(axle 3,4): 12.00R24.

Electro-hydraulic proportional hydraulic system

- Import pump and hoisting motor can be satisfied with precisely lifting; The min slewing speed is 0.1°/s, the min hoisting speed is 1.5m/min.
- Lifting energy saving capacity would be increase 15% by using electric control system than hydraulic control system, the heave load working efficiency would be increase 30%.
- The composite operation would be more coordinately and smoothly by using intelligent flow compensation and the utilization of flow would be increase 20%.

Humanized control system

- The widened operation cab can move upward from 0 to 20 degree with new inner design, the transverse space of seat increase 50mm and upward angle of seat increase 25°, 10.4 inch display with accessible and comfortable membrane keyboards, new air supply design of threedimensional air condition provides more comfortable and more wider working enviroment.
- New humanized design with handrail and ladder make it more easy to get on.

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It is more easy for maintenance with simply superstructure cover.

100.7

Good quality

- With multi- safety protection and high reliability.
- With newly developed electrically controlled hydraulic system, the rotary start and braking process is more stable and the micromovement is more excellent.
- The controller, monitor, instrument, I/O module, and sensor adopt CAN bus networking, which is intelligent and efficient.
- Intelligent controller, BCM control module, and fault self-diagnosis system for more convenient operation.
- With Streamlined full-width cab, standard berth, panoramic window operating room, providing wider vision and more comfortable operation.
- The widened operation room can move upward from 0 to 20 degree, which enables enough space and better view for operating.
- The extensive application of advanced manufacturing technology ensures the excellent performance of products.

ST/Seve D

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safe and reliable

- Equipped with voice alarm system to prevent misoperation and ensure the safety of operation and personnel.
- The torque limiter system is with high accuracy, stability and intelligence to provide comprehensive protection for operation.
- Sensors are widely equipped to timely feedback data, realize real-time monitoring and enable the operator to know the working status of the whole vehicle at any time.

GCP system

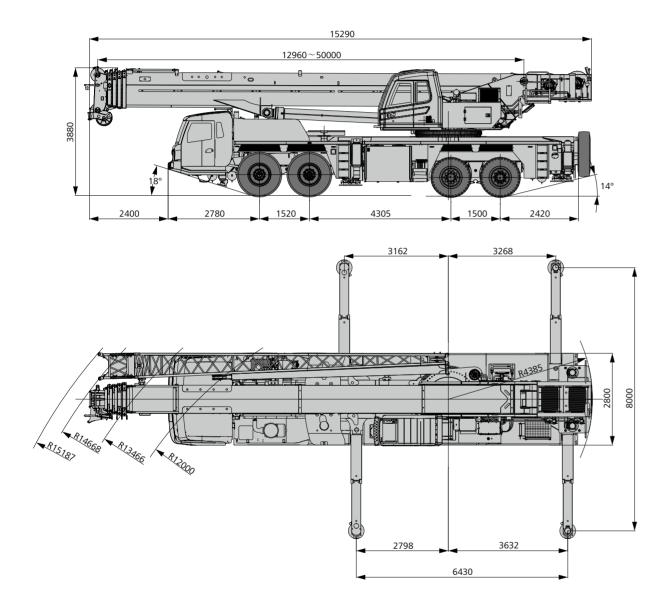
- The remote monitoring and management system can monitor equipment operating condition, collect operation parameter, and implement remote fault diagnosis and management.
- Customers can know the operation situation of the equipment, inquiry and ordering parts at any time.





Overall Dimensions

Technical Parameters



Туре	Item	Parameter			
	Total length of crane	Total length of crane			
Dimensions	Total width of crane		2800 mm		
	Total height of crane		3880 mm		
	Overall weight		50000 kg		
Weight		Axle load-1,2	24000 kg		
	Axle load	Axle load-3,4	26000 kg		
	Engine model (Euro 📗)		Dongfeng Cummins ISLe375 30 (Euro 📗		
Power	Max power of engine		275Kw/2100rpm		
	Max torque of engine		1550N.m/1100-1400rpm		
	Max traveling speed		85 Km/h		
	Min turning radius	12 m			
Travalina	Approach angle		≥15°		
Traveling	Departure angle	≥14°			
	Max grade ability		≥40%		
	Fuel consumption per 100k	m	≤50 L		
	Max lifting capacity		90 t		
	Tail slewing radius of swing	table	4.385 m		
		Base boom	3293kN.m		
	May lifting targue	Max main boom	1803kN.m		
	Max lifting torque	Max main boom +jib	993kN.m		
Main parameter		Max main boom+jib+extension jib	621kN.m		
	Outrigger span (Longitudina	8×6.43 m			
		Base boom	12.96 m		
	The length of boom	Max main boom	50 m		
	The length of boom	Max main boom+jib	67.5 m		
		Max main boom + extended jib+ jib	77 m		
	The max hoisting speed of	single rope of main winch (with no load)	130 m/min		
Working speed	The max hoisting speed of	single rope of auxiliary winch(with no load)	130 m/min		
	Full extended time/Full retra	acted time	140s/160s(12.96m-50m)		
	Full lifting/descending time		70s/90s		
	Slewing speed		0~1.8 r/min		



Technical Specifications





Technical Parameters



\bigcirc Hook

Lifting capacity (t)	Pullies	Parts of line	Hook weight (kg)	
90*(optional configuration)	6	12	750	
50	4	8	595	
8	-	1	160	



Main movement parameters

		-						
Item			Maximum speed	Diameter / Length	Max. single line pull			
Main winch			0-130m/min	20mm/250m	7.5t			
Auxiliary winch			0-130m/min	0-130m/min 20mm/165m 7.5t				
	Luffing		70s/90s (0-80°)					
	Telescoping			140s/160s (12.96m-5	0m)			
	Vertical	Retract		35 s				
Outriggor	outrigger	Extend		35 s				
Outrigger	Horizontal	Retract	20 s					
	outrigger	Extend		25 s				

Crane Introduction

Superstructure

Cab

- Independently developed by Sany, the widened operation room can move upward from 0 to 20 degree. It is equipped with retractable pedal, safety glass, corrosion-resistant steel plate, fully covered softening interior, panoramic skylight, adjustable seat and other humanized designs. The air conditioning and electric wiper make operating more comfortable and easy. The 10-inch touch screen is configured to integrate the main control desk and the operation display system, so that all working condition data of hoisting operation can be clearly seen.

Hydraulic system

- Hydraulic system: load sensitive variable hydraulic system with variable piston pump and triple gear pump.

Control system

- By manipulating the indoor two electric proportional controller control on action, the accelerator pedal control motor speed, become warped on the control panel control panel switch control room pitch and pedal scaling.

Slewing structure

- It is made of high strength steel , Box frame type structure, the rigidity is increased by 30%. It use width rail slewing bearing with high capacity of anti-overturning and stability.

Luffing system

- The gravity drop system is adopted to reduce energy consumption and improve the smoothness of the drop operation.



Technical Specifications



= Five section, the length of base boom is 12.96m, the fully extended boom is 50m, it is made of high strength steel, u shaped section, the length of extended jib is 9.5m, the length of jib is 17.5m.



The 360 ° slewing maximum turning speed is 1.8 r/min, and it adopts electronic control proportional speed control, ensuring stable movement, and reliable system. Besides, unique rotary buffer design makes brake more stable.

Hoisting system

- Closed coil lift brake, coil lift balance valve and unique anti-slip hook technology perfect combined together to make the weight rises and falls smoothly.

Safety system

by using analytical mechanics method, the torque limiter calculation system based on the gravity model is developed to ensure the precision of rated lifting weight is up to + / - 3% through online no-load calibration, and provide All-round protection for lifting operation. When the operation is overloaded, the system will automatically give an alarm, providing security for the operation.



Counterweight

- It is combined with fixed counterweight and movable counterweight. The total weight is 16.1t



Crane Introduction

Boom Operating Range

Driving cab

Chassis

- all-steel materials and rubber seal structure for the cab, which is designed by ergonomic principle, and has excellent shock absorption and sealing performance. The cab is equipped with seat with pneumatic suspension, three-point seat belt, adjustable steering wheel, large rearview mirror, comfortable driving chair equipped with headrest, prevent mist fan, air conditioning, stereo radio, complete control instruments and meters, and standard sleeping bed, which is comfortable and safe.

Carrier frame

Designed and manufactured by Sany, the chassis uses new high-strength structure frame, and is increased in height and width. Compared with the slotted frame, the rigidity is increased by 25%, and the bearing capacity is greatly improved.

🛏 Axles

Axis 3 and 4 are driving shafts, while axis 1 and 2 are steering shafts. The shaft has built-in differential speed between shafts and wheels, and the shaft has differential speed between wheels. The technology of punching and welding bridge shell make it has stronger bearing capacity.

Engine

- Type: six cylinders in line, water cooling, medium cooling, diesel engine.
- Environmental: emissions meet the Euro III standards.
- Effective fuel tank capacity: 400L.

1 Transmission system

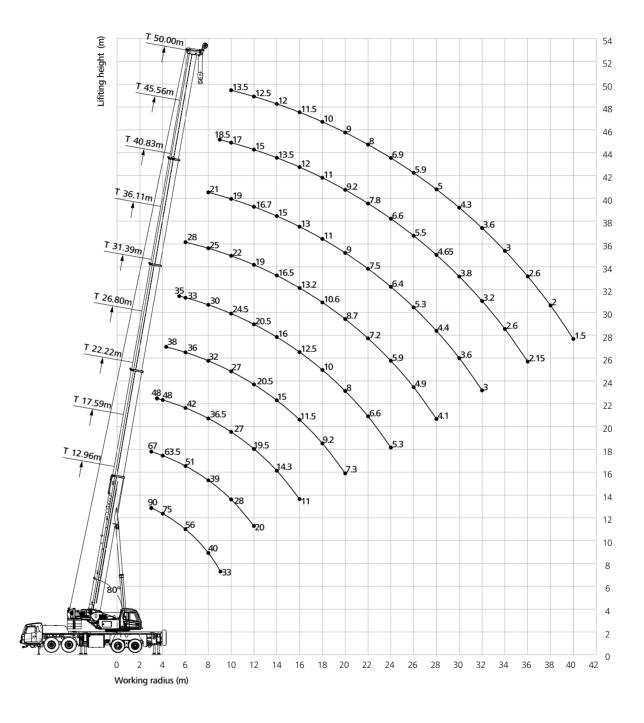
- Gearbox: 10 manual gearbox with synchronizer, the speed ratio range is large, which can meet the requirements of low-speed road climbing and high-speed driving.
- Transmission shaft: optimal transmission shaft layout, transmission shaft transmission is stable and reliable. The optimal force transmission adopts the end face gear connection transmission shaft, which transfers the torque greatly.

O Brakes system

- All wheels are provided with air servo brakes, double circuit braking system, and engine with exhaust braking.

4 Electric system

= 2 × 12V maintenance free batteries equipped with mechanical power supply main switch enables the manual cut off the vehicle power supply. The bus control system can realize the information exchange between the superstructure and the chassis.





Technical Specifications





The lifting performance of main boom

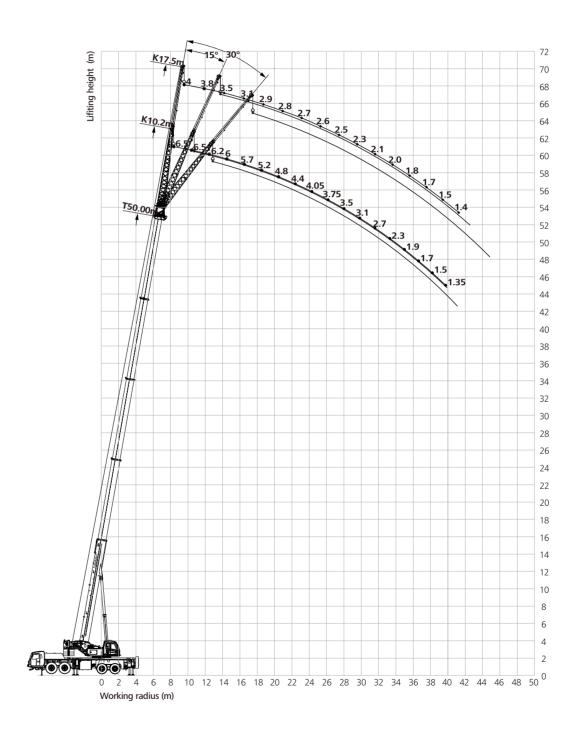
Load Chart - Telescopic Boom

Unit: t										
								12.96-50m	8m×6.43m	16.1t
Radius (m)	12.96	17.59	22.22	26.80	31.39	36.11	40.83	45.56	50.00	Radius (m)
3	90	67								3
3.5	77	65	48							3.5
4	75	63.5	48	38						4
4.5	69	61	48	38						4.5
5	63	58	46	38	35					5
5.5	58	53	44	37	35					5.5
6	56	51	42	36	33	28				6
7	46	45	40	34	31	26	21			7
8	40	39	36.5	32	30	25	21			8
9	33	33	32.5	29	27	23	20	18.5		9
10		28	27	27	24.5	22	19	17	13.5	10
11		23	22.5	23.2	22	20	18	16	13	11
12		20	19.5	20.5	20.5	19	16.7	15	12.5	12
14			14.3	15	16	16.5	15	13.5	12	14
16			11	11.5	12.5	13.2	13	12	11.5	16
18				9.2	10	10.6	11	11	10	18
20				7.3	8	8.7	9	9.2	9	20
22					6.6	7.2	7.5	7.8	8	22
24					5.3	5.9	6.4	6.6	6.9	24
26						4.9	5.3	5.5	5.9	26
28						4.1	4.4	4.65	5	28
30							3.6	3.8	4.3	30
32							3	3.2	3.6	32
34								2.6	3	34
36								2.15	2.6	36
38									2	38
40									1.5	40
Number of lines	12	11	8	7	6	5	4	3	3	Number of lines
Cylinder I	0	50	100	100	100	100	100	100	100	Cylinder
Cylinder II	0	0	0	16.5	33	50	67	84	100	Cylinder II

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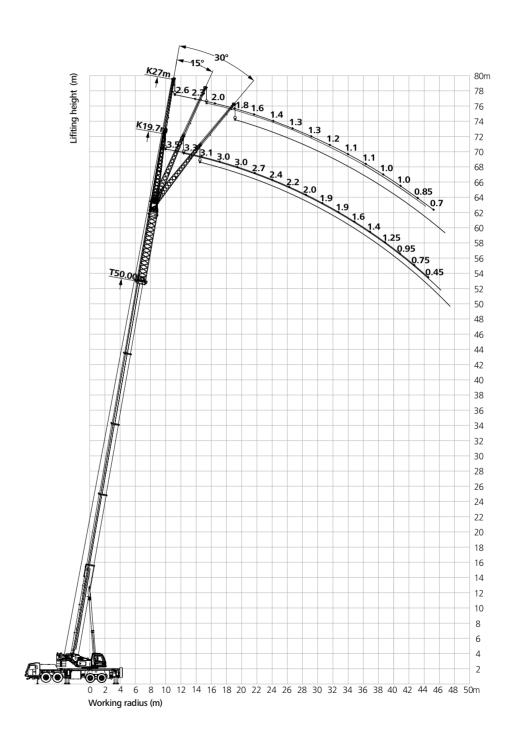
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Load Chart - Telescopic Boom

Load Chart - Telescopic Boom

Unit: t							360°
		50+10.2			12.96 50+17.5	5-67.5m 8m×6.43m	16.1t
Angle of elevation(°)	0°	15°	30°	0°	15°	30°	Angle of elevation(°)
80	6.5	5	4.5	4	2.5	1.8	80
78	6.5	5	4.5	3.8	2.2	1.7	78
76	6.2	4.8	4.1	3.5	2	1.6	76
74	6	4.5	3.9	3.1	1.9	1.6	74
72	5.7	4.2	3.7	2.9	1.8	1.5	72
70	5.2	3.9	3.6	2.8	1.8	1.5	70
68	4.8	3.7	3.3	2.7	1.8	1.4	68
66	4.4	3.5	3.1	2.6	1.7	1.3	66
64	4.05	3.3	3	2.5	1.6	1.3	64
62	3.75	3.05	2.9	2.3	1.5	1.3	62
60	3.5	2.9	2.7	2.1	1.5	1.3	60
58	3.1	2.7	2.55	2	1.5	1.2	58
56	2.7	2.4	2.25	1.8	1.4	1.2	56
54	2.3	2.1	2.05	1.7	1.4	1.2	54
52	1.9	1.8	1.75	1.5	1.3	1.2	52
50	1.7	1.6	1.55	1.4			50
48	1.5	1.4	1.3				48
46	1.35						46
Number of lines				1			Number of lines
Hook			8	3t			Hook



Technical Specifications

Quality Changes the World



Load Chart - Telescopic Boom

Unit: t					12.90	5-67.5m 8mx6.43m	360°
Angle of		50+9.5+10.2			50+9.5+17.5		Angle of
elevation(°)		15°	30°		15°	30°	elevation(°)
80	3.5	2.8	2.2	2.6	1.6	1.4	80
78	3.3	2.6	2.1	2.3	1.5	1.3	78
76	3.1	2.5	2	2	1.4	1.2	76
74	3	2.4	1.9	1.8	1.3	1.1	74
72	3	2.3	1.9	1.6	1.2	1.1	72
70	2.7	2.2	1.8	1.4	1.1	1.1	70
68	2.4	2	1.7	1.3	1.1	1	68
66	2.2	1.9	1.6	1.3	1	0.9	66
64	2	1.8	1.6	1.2	1	0.9	64
62	1.9	1.7	1.5	1.1	0.9	0.85	62
60	1.9	1.6	1.4	1.1	0.85	0.8	60
58	1.6	1.5	1.3	1	0.8	0.75	58
56	1.4	1.3	1.2	1	0.75	0.7	56
54	1.25	1.1	1	0.85			54
52	0.95	0.9	0.85	0.7			52
50	0.75	0.7	0.7				50
48	0.45	0.4	0.4				48
Number of lines				1			Number of lines
Hook			٤	3t			Hook



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— Authorised Dealer—

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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