SANY SERIES OF SANY TRUCK CRANE

QY17 Truck Crane

- The QY hydraulic truck crane is equipped with the chassis produced by SANY and earmarked for the crane, and the 6C215-2 engine produced by Shanghai Diesel Manufacturing Works. The discharge can reach the standard of Euro II.
- The main arm is a flexible suspension boom with four sections hexagon great round angle, which has superior working performance corresponding to similar cranes made domestically, and all the index rank leading place in the whole country.
- Fixed with the main and auxiliary hoisting mechanisms of the same model, it can work independently or unitedly, and the operation is convenient and reliable.
- The fully hydraulic drive and the imported manual leading control valve bring convenient, relax and safe operation. The double H outrigger with great span has good working stability.
- The turning mechanism uses the third grade planet speed reducer, which can effectively absorb the turning impact, to produce a stable turn and good micromotion performance. The controllable and free trackslip function can make the cargo boom and the lifting cargo aligne automatically.
- The cab is equipped with the deluxe damping and the adjustable seat. The newly designed cab gives a good-looking and comfortable appearance, and a wide visual field.
- The equipped height limitation device, three-ring overtravel protection device and light make the work in night be convenient.
- It is fit for the users in the plateau area, or used in bad plateau condition.
- The equipped precise electronic device moment limiter, which protects the safe working, makes the working be safer and more reliable.

Main Technical Parameters for QY 17 Truck Crane

Model / Technical Parameters	QY 17		
Overall length	12140 mm	Brake distance	≤9 m
Overall width	2500 mm	Min. ground clearance	270 mm
Overall height	3240 mm	Oil consumption per 100 km	35 L
The 1st and 2nd wheel base	4075 mm	Noisy level at cab	≤90 dB
The 2nd and 3rd wheel base	1350 mm	Main Performance Parameters	
Thread of the 1st shaft	2047 mm	Max. rated total hoisting capacity	17 t
Thread of the 2nd and 3rd shafts	1834 mm	Max. rated hoisting moment	666 kN. m
Quality Parameters		Max. hoisting moment of primary arm	706 kN. m
Quality of the crane	24000 kg	Length of primary arm	10 m
Load of the front shaft	7000 kg	Longest main arm	31 m
Load of the middle and rear shafts	17000 kg	Longest main arm and auxiliary arm	39 m
Power Parameters		Max. hoisting height of primary arm	10.1 m
Engine model	SC 6C215-2	Longest main arm	31.1 m
Rated power of engine	158/2200 kw/rpm	Max. hoisting height of the longest main arm + auxiliary arm	39.6 m
Rated speed of engine	790/1400 r/min	Working Speed Parameters	
Discharge Standard	Euro II	Full extension/retraction time of cargo boom-	90/35 s
Traveling Parameters		Lifting/Approaching time of cargo boom	60/30 s
Max. traveling speed	72 km/h	Rated turning speed	2.5 r/min
Min. turning diameter	22 m	Simultaneous extension/retraction time of horizontal leg	20/18 s
Gradeability	30%	Simultaneous extension/retraction time of vertical leg	15/13 s
Access angle	≥16	Max. hoisting speed of main and auxiliary hoisting single rope under no-load/full load	110/85
Off angle	≥10.5 00		

Hoisting Performance for Main Cargo Boom

Working Range (m)	Primary Arm (10m)		Medium & Long Arm (17.2m)		Medium & Long Arm (24.4m)		Full Extension Arm (31.0m)	
	Weight (t)	Height (m)	Weight (t)	Height (m)	Weight (t)	Height (m)	Weight (t)	Height (m)
3.0	17.0	10.1						
3.5	17.0	9.8						
4.0	17.0	9.5	12.5	17.4				
4.3	16.0	9.4	12.5	17.3				
4.5	15.5	9.2	12.5	17.2	6.8	24.7		
5.0	14.4	8.9	12.0	17.0	6.8	24.6		
5.5	12.5	8.4	11.1	16.8	6.8	24.4		
6.0	10.6	8.0	10.4	16.6	6.7	24.3	4.2	31.1
7.0	8.2	6.7	8.3	16.1	6.2	24.0	4.2	30.9
8.0	6.6	4.9	6.6	15.5	5.9	23.6	4.2	30.6
9.0			5.4	14.9	5.4	23.2	3.8	30.2
10.0			4.6	14.1	4.8	22.7	3.6	29.9
12.0			3.1	12.0	3.4	21.5	3.2	29.0
14.0			2.2	9.0	2.6	20.1	2.4	28.0
16.0					2.1	18.3	2.0	26.8
18.0					1.7	16.1	1.6	25.4
20.0					1.3	13.1	1.2	23.6
22.0							1.0	21.6
Max. elevation angle	66°		73°		78°		80°	
Min. elevation angle	23°		28°		30°		42°	
Scale factor of wire rope	8		8		4		4	
Hook weight	226 kg							

Hoisting Performance for Auxiliary Cargo Boom

Auxiliary Arm	Main Arm (31m) + Auxiliary Arm (8m)			
Hoisting Capacity	Installation angle of auxiliary arm			
Main Arm	0°		15°	
Elevation angle of main arm	Range (m)	Weight (t)	Range (m)	Weight (t)
80°	5.5	2.0	7.5	1.9
77°	7.5	2.0	9.5	1.8
75°	8.8	2.0	10.8	1.7
73°	10.1	1.9	12.1	1.6
70°	12.0	1.8	13.9	1.5
65°	15.2	1.7	17	1.4
60°	18.2	1.3	19.9	1.2
55°	21.1	0.8	22.7	0.7
50°	23.8	0.4	25.2	0.35
Scale factor of wire rope	1			
Hook weight	55Kg			

QY26 Truck Crane

- It is installed with the moment limiter, height limitation device and three-ring overtravel protection device; the oil circuits in every working mechanism are fixed with such control elements as the overflow valve, the balanced valve, the dual-direction hydraulic lock and the buffer valve. The oil circuits could give out alarm when the hydraulic oil is contaminated and overloaded. The illuminating lamp makes the operation in night be safe and reliable.
- The amplitude mechanism adopts the single cylinder to propel forward, and the hinge points at the oil cylinder are the oscillating bearing structure, which can avoid the impact of the additional transverse force.
- The H-outrigger is characterized by its great span, strong bearing, and good working stability. The outrigger oil cylinder is convenient in operation. The horizontal outrigger oil cylinder and the vertical outrigger oil cylinder are controlled by outrigger control valve, so they can control every horizontal and vertical oil cylinder simultaneously or respectively, and can lift and level the crane's underframe rapidly and correctly. Meanwhile, the underframe is installed with the level gage, by observing which, the leveling state of the working truck can be confirmed.
- Based on a concept of people foremost, the design puts the operators' safety, comfortableness and convenience at the first place. The cab, designed on the basis of the principle of ergonomics, is commodious and bright. The control cab is installed with a display screen for moment limiter, which can show you the working state of the crane, such as the arm length, the range, the elevation angle of cargo boom, the hoisting height and the maximum hoisting capacity in every working state, and hence brings extreme convenience to the operation.

Main Technical Parameters for QY 26 Truck Crane

Model / Technical Parameters	QY 26		
Length of the whole crane	12000 mm	Brake distance	≤9 m
Width of the whole crane	2500 mm	Min. ground clearance	232 mm
Height of the whole crane	3400 mm	Oil consumption per 100 km	35 L
The 1st and 2nd wheel base	4125 mm	Noisy level at cab	≤90 dB
The 2nd and 3rd wheel base	1350 mm	Main Performance Parameters	
Thread of the 1st shaft	2079 mm	Max. rated total hoisting capacity	26 t
Thread of the 2nd and 3rd shafts	1845 mm	Max. hoisting moment of primary arm	992 kN. m
Quality Parameters		Length of primary arm	10.3 m
Quality of the whole crane	28450 kg	Longest main arm	31.75 m
Load of the front shaft	6800 kg	Longest main arm and auxiliary arm	40 m
Load of the middle and rear shafts	21650 kg	Max. hoisting height of primary arm	10.4 m
Power Parameters		Max. hoisting height of the longest main arm	31.8 m
Engine model	C245 20	Max. hoisting height of the longest main arm + auxiliary arm	40 m
Rated power of engine	180 kw/rpm	Working Speed Parameters	
Rated speed of engine	1025 N.m/1400 r/min	Full extension/retraction time of cargo boom-	95/56 s
Discharge Standard	Euro II	Lifting/Approaching time of cargo boom	72/42 s
Traveling Parameters		Rated turning speed	3 r/min
Max. traveling speed	72 km/h	Simultaneous extension/retraction time of horizontal leg	30/25 s
Min. turning diameter	22 m	Simultaneous extension/retraction time of vertical leg	35/30 s
Gradeability	30%	Max. hoisting speed of main and auxiliary hoisting single rope under no-load/full load	110/90
Access angle	≥16°		
Off angle	≥10.5 °		

Hoisting Performance for Main Cargo Boom

Working Range (m)	Arm Length (10.3m)	Arm Length (17.45m)	Arm Length (24.6m)	Arm Length (31.75m)
	Hoisting capacity (Kg)	Hoisting capacity (Kg)	Hoisting capacity (Kg)	Hoisting capacity (Kg)
3.0	26000.00	14980.00		
3.5	25500.00	14930.00		
4.0	24300.00	14870.00	8630.00	
4.5	21820.00	14820.00	8580.00	
5.0	18900.00	14350.00	8530.00	
5.5	16680.00	14040.00	8510.00	6550.00
6.0	14830.00	12790.00	8425.00	6450.00
7.0	12065.00	11700.00	7800.00	6030.00
8.0	9730.00	8955.00	7280.00	5360.00
9.0		7685.00	6860.00	4680.00
10.0		6670.00	6110.00	4160.00
11.0		5845.00	5390.00	3866.00
12.0		5160.00	4769.00	3670.00
13.0		4586.00	4274.00	3460.00
14.0		4073.00	3830.00	3330.00
15.0		3508.00	3440.00	3120.00
16.0		3000.00	3000.00	2718.00
17.0			2700.00	2485.00
18.0			2420.00	2230.00
19.0			2154.00	2005.00
20.0			1900.00	1810.00
21.0			1658.00	1635.00
22.0			1435.00	1435.00
23.0				1330.00
24.0				1150.00
25.0				982.00
26.0				825.00
27.0				686.00
28.0				555.00
29.0				440.00
Scale factor	10	6	4	3
Main hook weight	300KG	300KG	300KG	300KG
Min. elevation angle of main arm	28°	30°	20°	19°
Max. elevation angle of main arm	68°	76°	78°	78°

Hoisting Performance for Auxiliary Cargo Boom (Full Extension, Side and Back Working of Leg)

Elevation Angle of Main Arm	Main Arm (31.75m)		
	Auxiliary arm (8m)		
	Compensation angle (°)		
	0°	15°	30°
	Hoisting capacity (Kg)	Hoisting capacity (Kg)	Hoisting capacity (Kg)
78	2800	2350	1700
75	2800	2200	1600
72	2750	2050	1500
70	2600	1900	1450
65	2150	1650	1350
60	1800	1450	1250
55	1300	1200	1150
50	950	850	800
Auxiliary hook weight	55Kg		

QY52 Truck Crane

- It is installed with a chassis HQC5420J produced by our company and earmarked for QY 52 truck crane with a fine traveling performance, and equipped with a WD615.44 environmental engine produced by Hangzhou Engine Factory and meeting the discharge standard of Euro II. Adopting the leading proportional control for the crane's operation, it bears the performance of stepless and proportional speed changes, the good micromotion performance and the comfortable operation.
- It has a complete and reliable safety protection. The oil circuits in every working mechanism are installed with such control elements as the overflow valve, the balanced valve, the dual-direction hydraulic lock and the cushion valve, making every working mechanism be more stable and reliable. Meanwhile, it is also equipped with such safety devices as the height limiter, the moment limiter, the hydraulic oil cooler, the control oil low pressure alarm, and the control oil and return oil contamination alarm.
- The amplitude mechanism adopts the single cylinder to propel forward, and the hinge points at the oil cylinder are the oscillating bearing structure, which can avoid the impact of the additional transverse force. The elevation angles of the cargo boom vary within 2°~80°.
- The main and auxiliary hoisting mechanisms drive the drum through the planet speed reducer by hydraulic motor. The hoisting speed reducer is installed with the normal closed brake of the spring loading type. The main and auxiliary hoisting mechanisms of the same model can work independently or unitedly, and they are convenient and reliable in operation. The turning mechanism consists of the hydraulic motor, planet reducer, returning bearing, etc. The turning reducer is installed with the normal closed brake of the spring loading type. By the annulus of the small output gear in the turning mechanism and the inner gear ring of the turning bearing, the crane can achieve the 360°full turning. With the controllable and free trackslip function, it makes the cargo boom automatically align with the lifting load.
- The preposed fifth outrigger oil cylinder ensures crane's 360° full turning working. The dual-grade horizontal outrigger of the H-outrigger has a large span, strong bearing and good working stability.
- The display screen of the moment limiter in the cab can present you the crane's working state, such as the arm length, the range, the elevation angle of cargo boom, the hoisting height and the maximum hoisting capacity in every working state, and hence brings extreme convenience to the operation.
- The cab is also equipped with cool-air conditioner, so you can start the air-conditioner only by operating the corresponding switch on the armrest box. Furthermore this crane is installed with night illuminating device.

Main Technical Parameters for QY 52 Truck Crane

Model / Technical Parameters	QY 52		
Length of the whole crane	13070 mm	Off angle	≥13 ⁰
Width of the whole crane	2750 mm	Min. ground clearance	232 mm
Height of the whole crane	3650 mm	Oil consumption per 100 km	55 L
The 1st and 2nd wheel base	1450 mm		
The 2nd and 3rd wheel base	3850 mm	Main Performance Parameters	
The 3rd and 4th wheel base	1350 mm	Max. rated total hoisting capacity	52 t
Thread of the 1st and 2nd shafts	2296 mm	Max. rated hoisting moment	1568 kN. m
Thread of the 3rd and 4th shafts	2059 mm	Length of primary arm	10.8 m
Quality Parameters		Longest main arm	40.2 m
Quality of the whole crane	41500 kg	Longest main arm and auxiliary arm	40.2+15 m
Load of the 1st and 2nd shafts	16250 kg	Max. hoisting height of primary arm	11.5 m
Load of the 3rd and 4th shafts	25250 kg	Max. hoisting height of the longest main arm	40.5 m
Power Parameters		Max. hoisting height of the longest main arm + auxiliary arm	55.1 m
Engine model	WD615.44	Working Speed Parameters	
Rated power of engine	235 kw/rpm	Full extension/retraction time of cargo boom-	120/100 s
Rated speed of engine	2000 r/min	Rising/falling time of cargo boom	80/60 s
Discharge Standard	Euro II	Rated turning speed	0-2.4 r/min
Traveling Parameters		Simultaneous extension/retraction time of horizontal leg	30/20 s
Max. traveling speed	75 km/h	Simultaneous extension/retraction time of vertical leg	35/20 s
Min. turning diameter	24 m	Max. hoisting speed of main and auxiliary hoisting single rope under no-load/full load	114 m/min
Gradeability	35%		
Access angle	≥18⁰		

Rated Hoisting Capacity for Main Cargo Boom

Working Range (m)	Full Back and Side Extension Working of Leg				
	10.8m	18.15m	25.5m	32.85m	40.2m
3.0	52000				
3.5	44000				
4.0	39000	28500			
5.0	32000	28000	18500		
6.0	25000	24000	18000	13500	
7.0	20000	19800	17000	13500	
8.0	16000	15300	16000	12500	8000
9.0		12200	13000	11200	8000
10.0		9800	10600	10200	7500
11.0		8000	8900	9300	7000
12.0		6550	7500	8200	6500
14.0		4550	5500	6000	5800
16.0			4000	4650	4800
18.0			3000	3600	3850
20.0			2100	2750	3050
22.0				1450	2300
24.0				1000	1800
26.0					1350
28.0					950
Scale factor of wire rope	12	7	5	4	3
Min. elevation angle of main arm	-2⁰	-2⁰	-2⁰	28⁰	40⁰

Rated Hoisting Capacity for Auxiliary Cargo Boom

Elevation Angle of Main Arm	Full Back and Side Extension Working of Leg					
	40.2+9.2m			40.2+15m		
	α=5⁰	α=15⁰	α=30⁰	α=5⁰	α=15⁰	α=30⁰
10	3500					
11	3200					
12	3000	2400		2400		
14	2700	2200	2000	2300	1500	
16	2500	2000	1800	2000	1400	
18	2200	1800	1700	1800	1300	1000
20	2000	1700	1600	1600	1200	1000
22	1800	1500	1400	1400	1100	900
24	1500	1400	1250	1200	1000	850
26	1200	1200	1100	1100	950	820
28	850	1000	900	1100	880	780
30	550	650	700	800	800	740
32			450	600	700	700
34					450	650
Min. elevation angle of main arm	51⁰			53⁰		