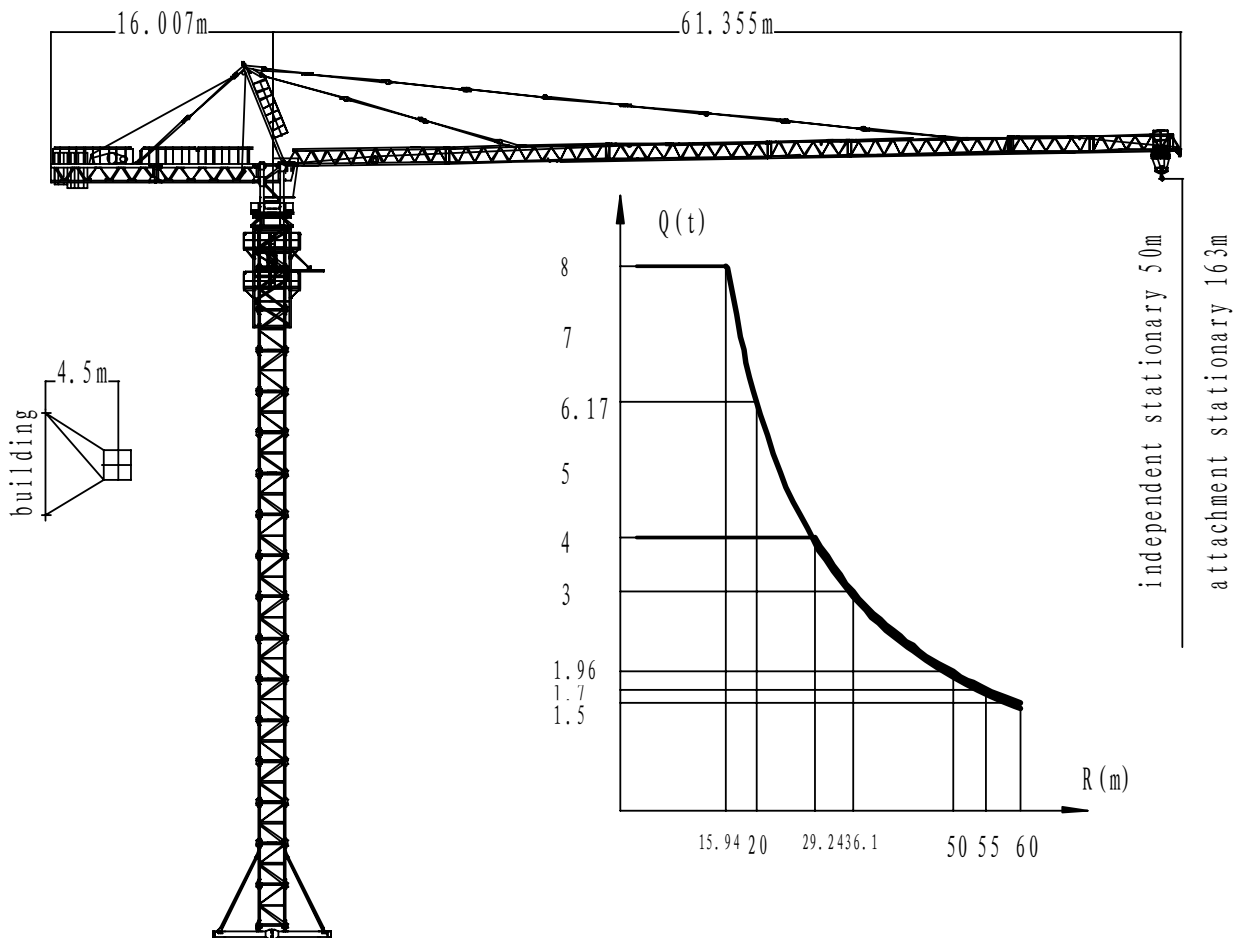

V QTZ125 SERIES

i QTZ125 (6015)

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1. structural diagram and hoisting performance curve



4 fall	radius m	2.5-15.94	16	18	20	22	24	26	28	30	32	34	36
	capacity T	8	7.97	6.96	6.17	5.52	4.98	4.53	4.41	3.81	3.52	3.26	3.03
	radius m	38	40	42	44	46	48	50	52	54	56	58	60
	capacity T	2.83	2.65	2.48	2.33	2.2	2.07	1.96	1.85	1.75	1.66	1.58	1.5

2 fall	radius m	2.5-29.24								30	32	34	36
	capacity T	4								3.88	3.59	3.33	3.1
	radius m	38	40	42	44	46	48	50	52	54	56	58	60
	capacity T	2.9	2.72	2.55	2.4	2.27	2.14	2.03	1.92	1.82	1.73	1.65	1.57

2. main technical parameter

Name		Unit	Parameter			
Metric crane moment KN.m		KN.m	1250			
Max lifting capacity		t	8			
lifting capacity in max working extent		t	1.5			
Max. Working extent		m	60			
lifting height	Independent	m	50			
	Attachment	m	163			
lifting speed(8-10 different speed)	Rate		2		4	
	Lifting speed	m/min	100	50	50	25
	Max. lifting capacity	t	2	4	4	8
Slewing speed		r/min	0.6			
Speed of trolley		m/min	54/27/8.1			
Max. slewing radium		m/min	61.35m			
Tail slewing radium		m	16m			
Underframe span		m	5000×5000 (center distance)			
Weight	Weight of structure independent	t	48.8			
	Weight of tower crane	t	61.55			
Balancing weight	jib length	60m	balancing weight 12.75t			
	jib length	55m	balancing weight 11.475t			
	jib length	50m	balancing weight 10.2t			
	jib length	45m	balancing weight 8.925t			
	jib length	40m	balancing weight 7.65t			
Max. working wind speed		m/s	20			
Wind speed during installation		m/s	13			
Working environment temperature		°C	-20		40	

3. main parts parameter

item			parameter	
Hoisting	Motor	Model		YZRDW250-4/8
		Power	Kw	37/37
		Rotate speed	R/min	718/1438
	reducer	Model		JZQ650
		Center distance		650
		Speed Ratio		i=12.19
	brake	Model		YWZ3B-315/90
		Thrust of impeller	N	900
		Hydraulic impeller motor	W	250
		Diameter of brake drum	mm	315
Steel rope			18×19 or 18×19S	
Slewing	Motor	Model		YZR132-6 B5
		Power	Kw	2×3.7
		Rotate speed	R/min	980
	Reducer	Model		XX4-100-147 m=10z=15x=0.5
	Slewing rear bearing			QW1400.40 m=10 z=158
Trolleying	Motor	Model		YZTDE180M-4/8/24
		Power	Kw	5/3.7/1.1
		Turning rate	R/min	1426/716/216
		brake		IP23 80N.m 24V
	Reducer	Model		XX3-14.40
Steel rope			6×19-7.7-1550	
Hydraulic lifting	Motor	Model		Y132M-4
		Power	Kw	7.5
		Turning rate	R/min	1440
	Hydraulic Station	cylinder model		HSGK01-160/110E
		Route of travel	mm	1853
	Route of travel		mm	1320
Working Pressure		MPa	18	

4. main metal parts list

NAME	MATERIAL AND SPECIFICATION		REMARK
	MATERIAL	SPECIFICATION	
Standard section	Q235	Main chord □ 135×135×12 Web member Made by u-steel and tube	external dimensions 2160.2×2160.2 overall height:3030
Jib	16Mn	Upper chord Ø70 round steel Ø55 round steel	8 sections Total 60m long The jib can be adjusted to 55m, 50m, 45m and 40m long.
	Q235	Lower chord L100, L90, L80, L63 weld-square	
Underframe	Q235	Main beam and half beam are made by [36b weld-square	Two kinds of underframe: cross beam and imbed part
Counter jib	Q235	Main chord L160×160×16	Welded by angle steel space truss structure total 3 sections
Cover frame	20	Main chord Ø114×10	space truss structure
Top of tower	Q235	Main chord [25a	Monolayer frame structure
Upper abutment	Q235	δ 30, δ 20, δ 14, δ 10, δ 8 and Ø110 round steel	Box-type structure
Lower abutment	Q235	δ 30, δ 16, δ 12 and □ 135×135×12	Box-type structure
Slewing tower body	Q235	Main chord Ø110 round steel	space truss structure made by main chord, u-steel and steel board