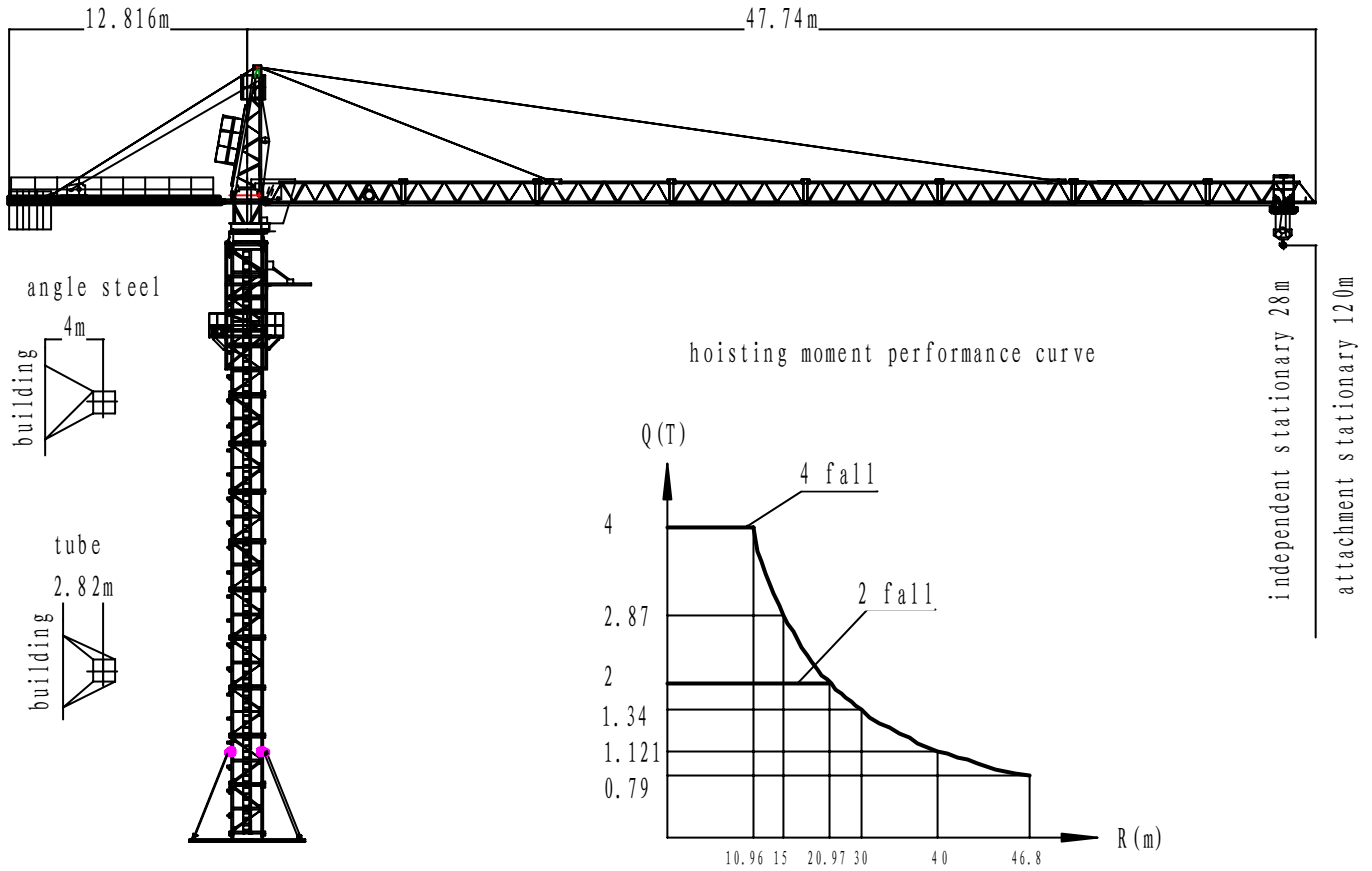

II QTZ40 SERIES

i QTZ40A (4708)

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1. structural diagram and hoisting performance curve



4 fall loading diagrams

radius m	3-10.96	11	12	13	14	15	16	17	18	19	20	21	22
capacity T	4	3.986	3.638	3.343	3.09	2.87	2.68	2.51	2.36	2.23	2.106	1.996	1.897
radius m	23	24	25	26	27	28	29	30	31	32	33	34	35
capacity T	1.806	1.732	1.646	1.576	1.510	1.449	1.393	1.34	1.29	1.24	1.20	1.159	1.121
radius m	36	37	38	39	40	41	42	43	44	45	46	46.8	
capacity T	1.084	1.05	1.017	0.986	0.957	0.929	0.902	0.877	0.852	0.892	0.807	0.79	

2 fall loading diagrams

radius m	3-20.97	21	22	23	24	25	26	27	28	29	30	31	32
capacity T	2	1.996	1.897	1.806	1.732	1.646	1.576	1.510	1.449	1.393	1.34	1.29	1.24
radius m	33	34	35	36	37	38	39	40	41	42	43	44	45
capacity T	1.20	1.159	1.121	1.084	1.05	1.017	0.986	0.957	0.929	0.902	0.877	0.852	0.892
radius m	46	46.8											
capacity T	0.807	0.79											

2. main technical parameter

item		unit	parameter					
Metric crane moment KN.m		KN.M	400					
Max lifting weight		T	4					
Weight in max working extent		T	0.79					
Max Working extent		M	3 ~ 46.8					
Lifting height	Independent	M	28					
	attachment	M	120					
Lifting speed	rate		2			4		
	Lifting speed	M/min	70	35	7.5	35	17.5	3.75
	Max lifting weight	T	1	2	2	2	4	4
Turning speed		R/min	0.375/0.75					
Speed of changing extent		M/min	38/19					
Lifting speed		M/min	0.6					
Weight	Balancing weight	T	6.4					
	Net weight of complete machine	T	20.285					
Max slewing radium		M	47.74					
Tail department slewing radium		M	12.816					
Max working Wind speed		M/s	20					
Lifting wind speed \leq		M/s	13					
Working environment temperature		°C	-20~+40					

3. main parts parameter

item			parameter		
Hoisting	Motor	Model		YZTD200L2 4/8/32	
		Power	Kw	15/15/3.5	
		Rotate speed	R/min	1400/700/180	
	brake	Model		YWZ-300/45	
		Braking moment	N.m	630	
		Hydraulic braking		YT ₁ -45	
	reducer	Model		JZQ400	
Speed Ratio		i=10.35			
Steel rope			6×37-1770-12.5		
Slewing	Motor	Model		YD132S-8/6	YZRW-6
		Power	Kw	2.6/3.7	3.7
		Rotate speed	R/min	730/970	908
	Reducer	Model		xx4-100-180planetary reducer	
		Speed Ratio		i=180	
	brake			Electromagnetism braking	
	Slewing rear bearing			HSW1220.32	
Trolleying	Motor	Model		YD112M 8/4	
		Power	Kw	1.5/2.4	
		Turning rate	R/min	700/1410	
	Reducer	Model		cycloid pinwheel reducer	
		Speed Ratio		i=37	
Steel rope			6×19-6.2		
Hydraulic lifting	Motor	Model		Y132S-4 B5	
		Power	Kw	5.5	
		Turning rate	R/min	1440	
	Hydraulic Station	cylinder model		HSGK01-140/100E	
		Route of travel	mm	1300	
Working Pressure			MPa	16	

4. main metal parts list

NAME	MATERIAL SPECIFICATION	REMARK
Standard section	Main chord ∠140×140×12	external dimensions 1500×1500 overall height:2200
jib	Upper chord ø76×8	total 8 sections
	Lower chord u-iron and seal board [8	Jib section connected through pin
Tower-cap	Main chord angle iron ∠125×125×12	space truss structure of bilateral symmetry and spire welded by angel iron and steel board
Upper and lower abutment	Main steel board δ12, δ16 Fastness section ∠90×90×8 weld-square	welded by steel board and angle iron
Counter jib	Main chord [20a Angle iron of diagonal web member is two layer	welded by u-iron, angle iron and expanded metal
Cover frame	Main chord u-iron weld-square [8	Space frame structure welded by angle iron steel board
Tow kinds of underframe	Main frame I-bar I 25	welded by I-bar and steel board
	Main frame u-iron weld-square [16a	welded by u-iron weld-square
Drawbar of jib	Ø40	welded by steel iron and round steel