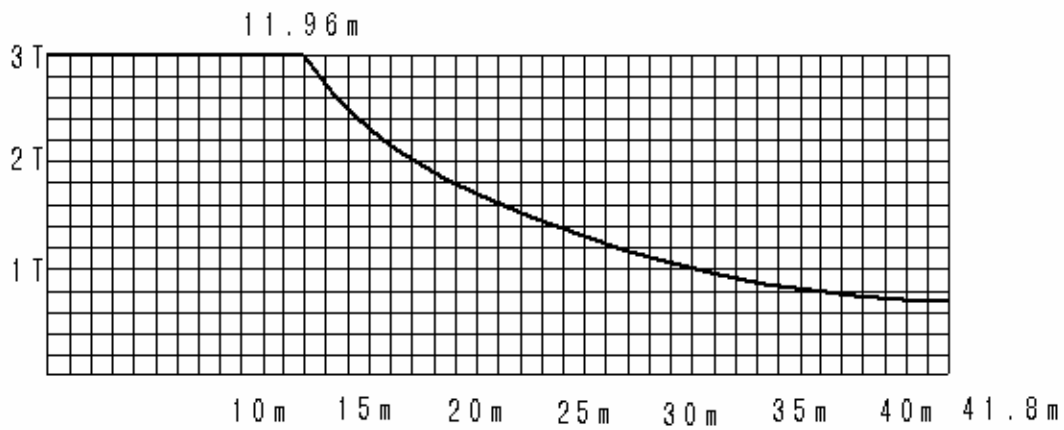
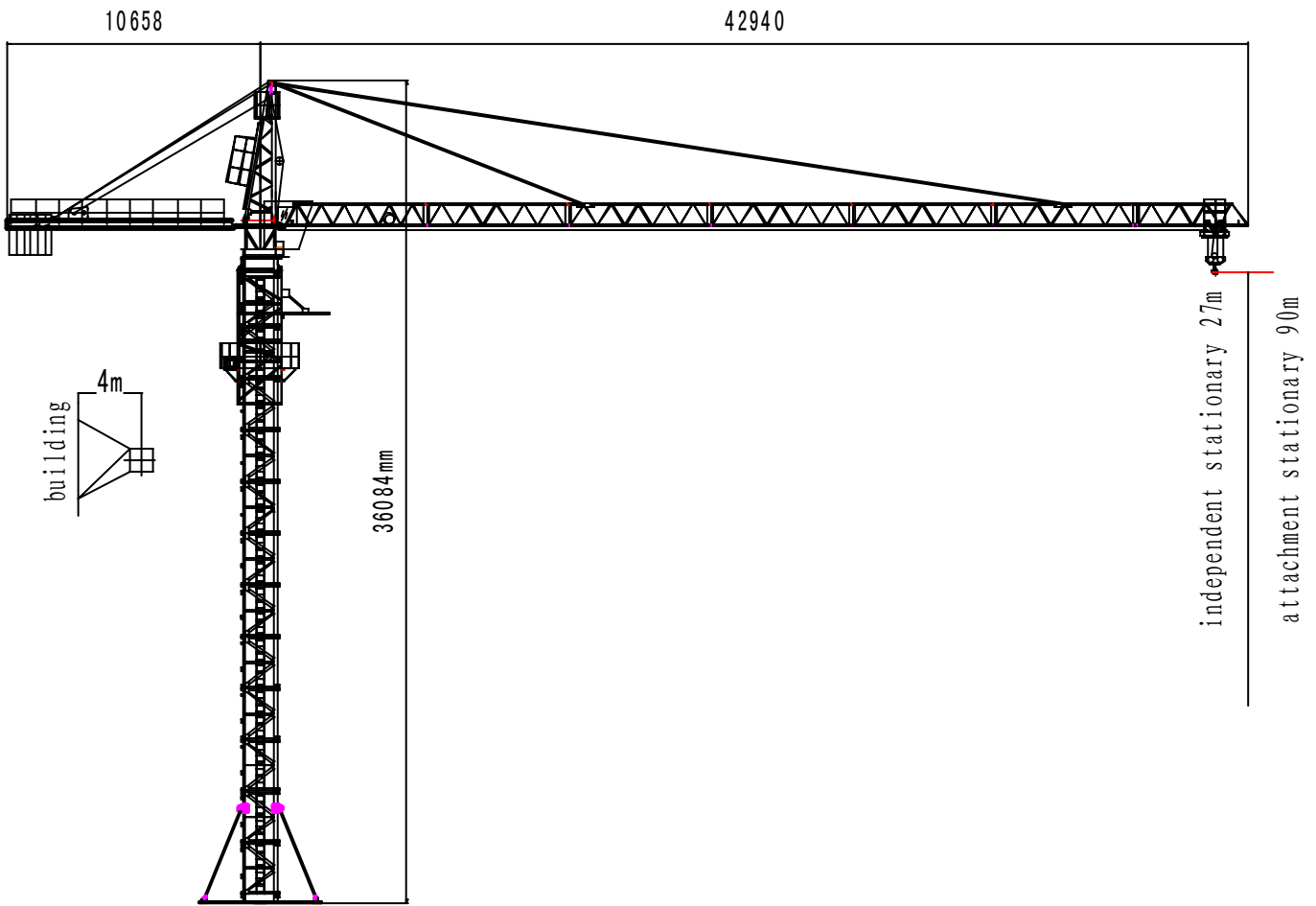

I QTZ31.5 SERIES
i QTZ31.5A (4207)
TABLE OF CONTENTS

1. structural diagram and hoisting performance curve
2. main technical parameter
3. main parts parameter
4. main metal parts list

1. structural diagram and hoisting performance curve



radius m	3-11.96	12	13	14	15	16	17
capacity T	3	2.989	2.721	2.495	2.302	2.135	1.990
radius m	19	21	23	25	27	29	31
capacity T	1.746	1.552	1.393	1.26	1.147	1.051	0.967
radius m	33	35	37	39	40	41	42
capacity T	0.892	0.826	0.766	0.713	0.688	0.664	0.642

2. main technical parameter

item		unit	parameter					
Metric lifting moment KN.m		KN.M	315					
Max. lifting capacity		T	3					
Rated lifting capacity in max. working radius		T	0.642					
Working radius		M	3 ~ 41.8					
Hoisting height	Independent	M	27					
	attachment	M	90					
Hoisting speed	fall		2			4		
	Hoisting speed	M/min	54	36	7	27	18	3.5
	Max lifting capacity	T	1	1.5	3	2	3	3
Slewing speed		R/min	0.38/0.5					
Trolley speed		M/min	15/30					
Climbing speed		M/min	0.6					
Weight	Counter-balance	T	6.6					
	Stationary structure	T	18.23					
Max slewing radius		M	42.94					
Tail slewing radius		M	10.658					
Max. working wind speed		M/s	20					
Climbing wind speed \leq		M/s	13					
Working environment temperature		°C	-20~+40					

3. main parts parameter

item			parameter	
Hoisting	Motor	Model	YZTD200L 4/6/24	
		Power	Kw	13/11/3.2
		Rotate speed	R/min	1400/930/180
	brake	Model		ZDJ ₁ -200
		Braking moment	N.m	200
		Hydraulic		YT ₁ -25
	reducer	Model		JZQ400
Speed Ratio		i=12.64		
Steel rope			35×7-12.5	
Slewing	Motor	Model	YD132S-6/4	
		Power	Kw	3/4
		Rotate speed	R/min	970/1440
	Reducer	Model		XX4-63-180planetary reducer
		Speed Ratio		I=180
	brake			Electromagnetism braking
Slewing rear bearing			QW1220.32	
Trolleying	Motor	Model	YD112M 8/4	
		Power	Kw	1.5/2.4
		Turning rate	R/min	700/1410
	Reducer	Model		worm reducer
		Speed Ratio		I=44
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		HSGK01-125/90E
		Route of travel	mm	1300
	Discharge of Hydraulic Station		L/min	Q=8.5
	Working Pressure		MPa	16

4. main metal parts list

item	The specification of main material	remark
standard section	Main chord $\angle 125 \times 125 \times 12$	External dimensions 1500 × 1500 total height 2200
jib	Upper chord $\phi 76 \times 6$	Total 7 sections, jib section connected through pin
	Lower chord u-iron and the steel board [8	
Tower cap	Main chord angle iron $\angle 125 \times 125 \times 10$	Space truss structure of bilateral symmetry and spire welded by angel iron and steel board
Upper and lower abutment	Main steel plate $\delta 12$ 、 $\delta 16$ fastness section $\angle 90 \times 90 \times 8$ Weld-square	All kinds of steel plates welded with angle steel
Counter jib	Main chord [16b Angle iron of diagonal web member is two layer	welded by u-iron, angle iron and expanded metal
frame	Main chord angle iron weld-square [8	Space frame structure welded by u-iron
Tow kinds of underframe	main frame I-bar I25a	welded by I-bar and steel board
	Main frame u-iron weld-square [16a	welded by u-iron weld-square
Jib tie bar	$\phi 35$	welded by steel iron and round steel