

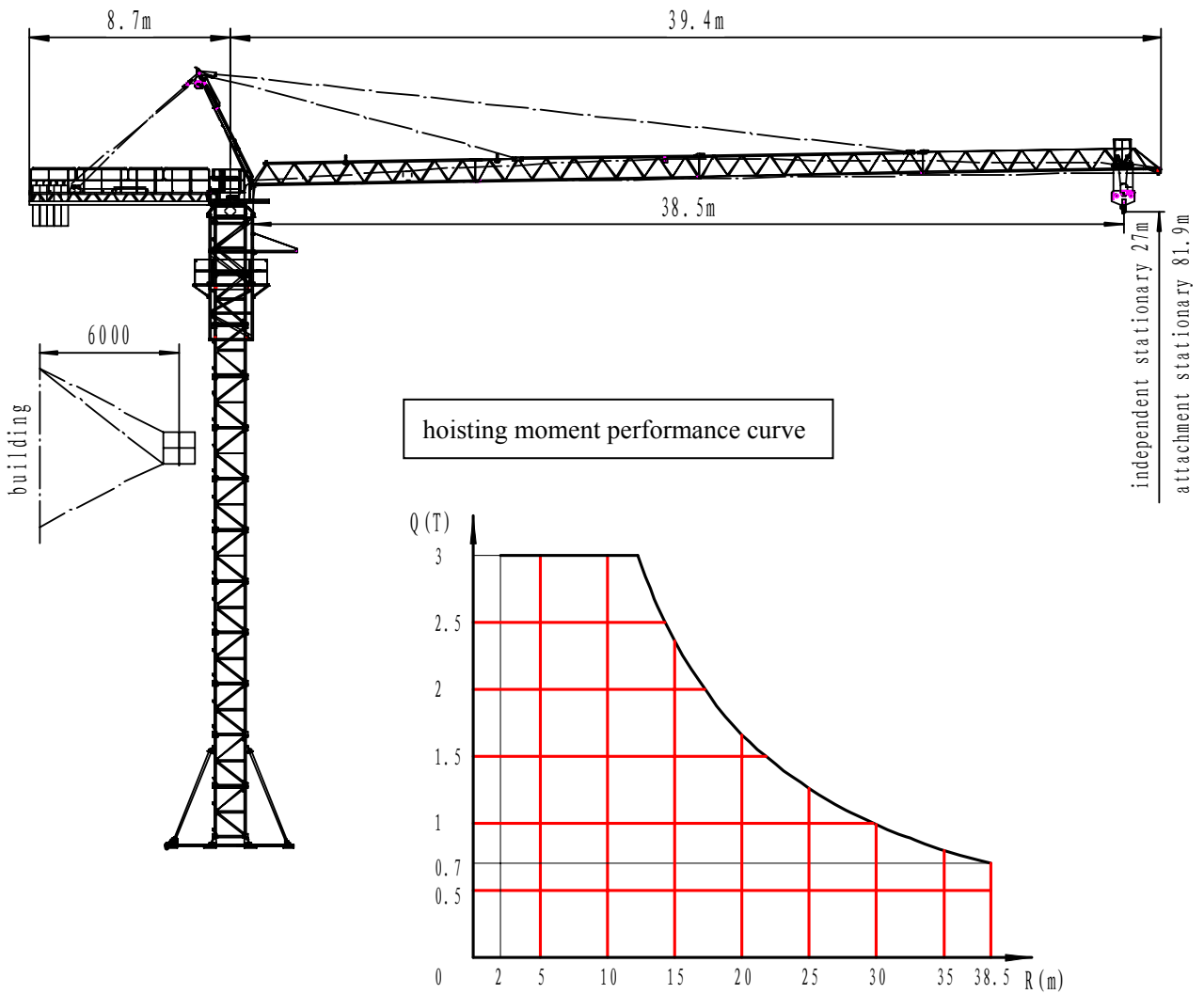
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# 1. structural diagram and hoisting performance curve



## loading diagrams

radius m	2~12.24	15	17.5	20	22.5	25	27.5	30	32.5	35	36	38.5
capacity T	3	2.36	1.96	1.66	1.44	1.26	1.11	0.99	0.89	0.8	0.77	0.7

## 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	0.7					
Working radius		M	3~38.5					
Hoisting height	Independent	M	27					
	Attachment	M	81.9					
Hoisting speed	All		2			4		
	Hoisting speed	M/min	54	36	8	27	18	4
	Max lifting capacity	T	0.6	1.5	3	1.2	3	3
Slewing speed		R/min	0.48/0.72					
Trolley speed		M/min	20/30					
Climbing speed		M/min	0.5					
Weight	Counter-balance	T	6.6					
	Stationary structure	T	17.9					
Max. slewing radius		M	39.4					
Counter-jib slewing radius		M	8.7					
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 <sub>1</sub> .200
		Braking moment	N.m	200
		Hydraulic		YT <sub>1</sub> .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 $\angle 125 \times 125 \times 10$	External dimensions 1400 $\times$ 1400 total height 2200
jib	Upper chord $\phi 68 \times 6$	Total 4sections, jib section connected through pin
	Lower chord angle iron weld square $\angle 63 \times 63 \times 6$ , $\angle 70 \times 70 \times 7$	
Tower cap	Main chord u-iron [12	welded by u-iron and steel board
Upper and lower abutment	Main steel board $\delta 14$	welded by steel board
Counter jib	Main chord $\angle 100 \times 100 \times 10$	welded by angle iron and expanded metal
frame	Main chord angle iron weld-square [ 8	Space frame structure welded by u-iron and angle iron
Three kinds of underframe	main frame I-bar 1. I25a 2. I20, [180 (3) Main frame u-iron weld-square [16a	(1) welded by angle iron, u-iron and steel board (3) welded by u-iron weld-square
Jib tie bar	$\phi 40$	welded by steel board and round steel