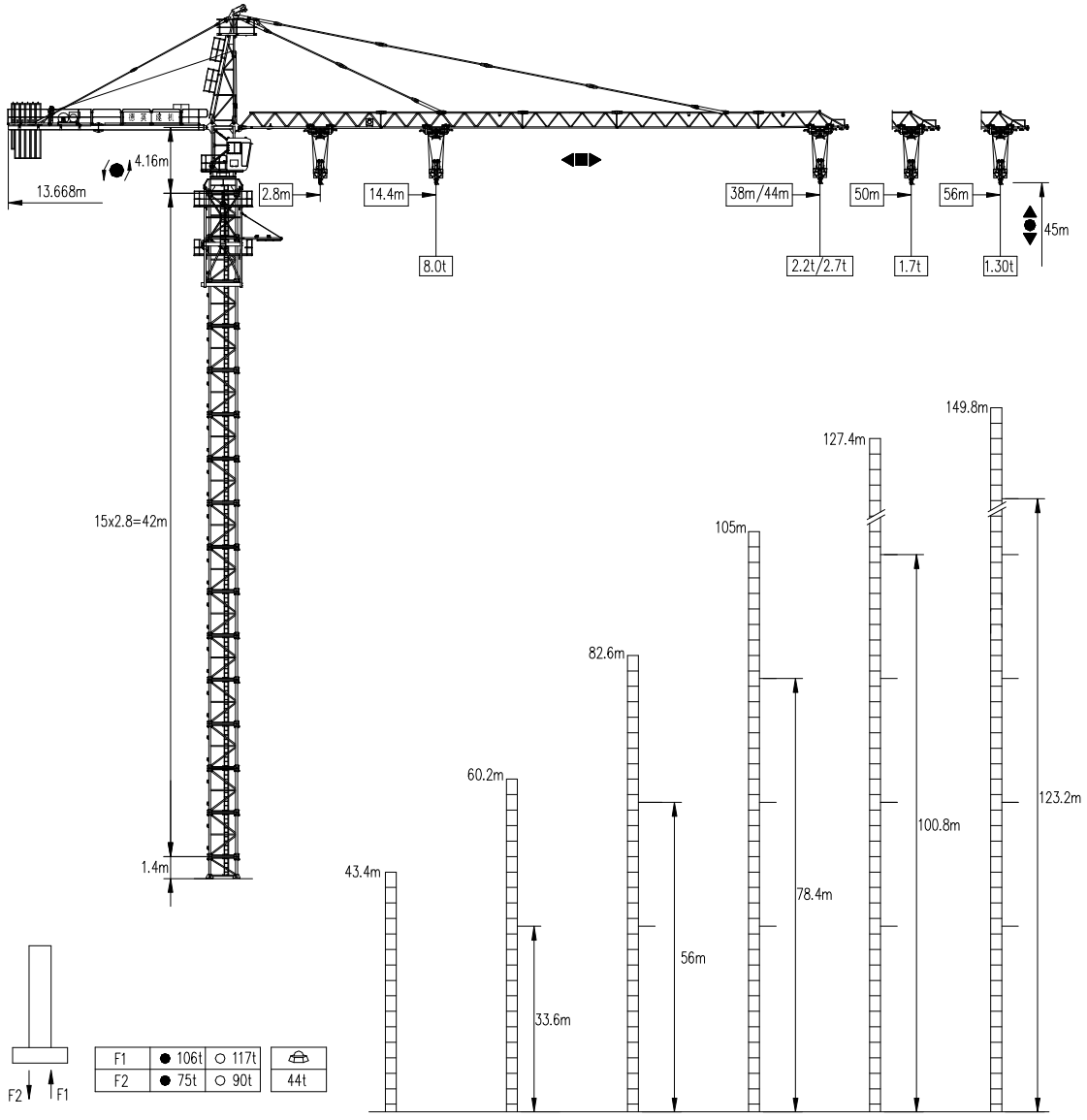
Tower Crane (TC5613)

TC5613 8t

DEYING® 德英



F 反力 Reaction	● 工作状态 in service	自重	without load and ballast with the longest jib and maximum height
	○ 非工作状态 out of service		

载荷特性 Load Capacity

起重臂 jib (54m)

R (m)	2.8-14.40	15	18	20	22	26	28	30	32	35	38	40	42	45	48	50	52	54	56
Q (t)	8.00	7.77	6.24	5.48	4.87	3.95	3.58	3.24	3.00	2.64	2.35	2.20	1.85	1.85	1.67	1.56	1.47	1.38	1.30
Q (t)	4.00						3.64	3.30	3.06	2.70	2.41	2.26	1.91	1.91	1.73	1.62	1.53	1.44	1.36

起重臂 jib (48m)

R (m)	2.8-15.20	16	20	22	24	27	28	30	32	34	36	38	40	42	45	48	50
Q (t)	8.00	7.53	5.75	5.18	4.65	4.00	3.82	3.47	3.19	2.96	2.74	2.53	2.36	2.21	2.00	1.81	1.70
Q (t)	4.00						3.88	3.53	3.25	3.02	2.80	2.59	2.42	2.27	2.06	1.87	1.76

起重臂 jib (44m 38m)

R (m)	2.8-15.90	18	20	22	25	28	30	32	36	38	40	42	44
Q (t)	8.00	6.95	6.13	5.46	4.66	4.04	3.70	3.40	2.91	2.70	2.52	2.35	2.20
Q (t)	4.00						3.76	3.46	2.97	2.76	2.58	2.41	2.26

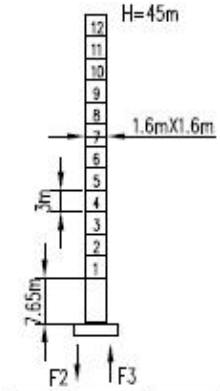
机构特性 Mechanism specification

					KW N.m	
起升 Hoisting	m/min	80	40	40	20	37/37	320m
	t	2.0	4.0	4.0	8.0		

变幅 Trolleying	m/min	6/23/45	95
回转 Slewing	r/min	0~0.6	2×75
顶升 Climbing	m/min	0.6	7.5
供电容量 Necessary electric power			52
电源 Main supply		~380V/50Hz	

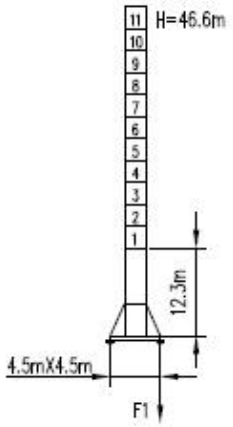
臂长 Jib length (m)	56	50	44	38
平衡重 Counterbalance (m)	16.5	13.5	12.0	10.5

固定式 Stationary



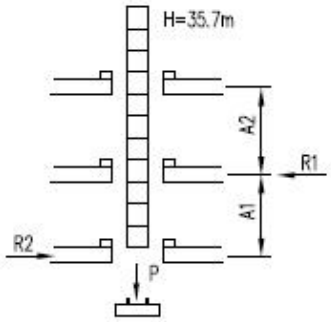
F2	● 106t	○ 117t	
F3	● 75t	○ 90t	46t

行走式 Travelling



F1	● 94t	○ 118t
	60t	

内爬式 Internal climbing



R1(t)	R2(t)	P(t)	
20.0	18	68	65.0t

F 反力 Reaction	●	工作状态	in service	自重	without load and ballast with the longest jib and maximum height
	○	非工作状态	out of service		

Main Technical Parameter

Item		Unit	Parameter			
Metric lifting moment		KN.M	800			
Max. lifting capacity		T	8			
Tip load capacity		T	1.3			
Working radius		M	2.8~56			
Hoisting Height	Independent	M	45			
	Attachment	M	174			
Hoisting Speed	Fall		2		4	
	Hoisting Speed	M/min	0~40	0~80	0~20	0~40
	Max Lifting Capacity	T	4.0	2.0	8.0	4.0
Slewing Speed		R/min	0~0.6			
Trolleying Speed		M/min	45/23/6			
Climbing Speed		M/min	0.50			
Weight	Independent Structure	T	56.0			
	Counter-Balance	T	19.0			
Max. Slewing Radius		M	70			
Counter-Jib Slewing Radius		M	14.66			
Max. Working Wind Speed		M/s	20			
Climbing Wind Speed ≤		M/s	13			
Working Environment Temperature		℃	-20~+40			

Tower Crane Electronic Parts

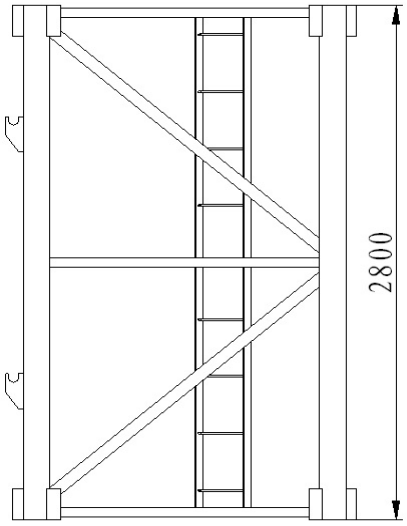
Creepage recloser	Breaker	Plastic shell breaker	Main AC contactor	Schneider electric
Relay	Time relay	Medium relay	Bridge unit	
Transducer	Moment spacing swish	autotransformer	Coder feekback	
DC power supply	Kenotron	Avail adapter socket	Retainer adapter	

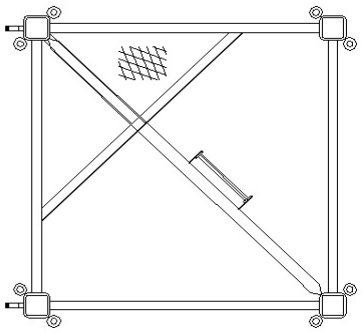
Main Parts Parameter

Item				parameter
Hoisting mechanism	Electromotor	Model		YZRDW250L-4/8-37/37
		Power	Kw	37
		Turning rate	R/min	1460/730/150
	Brake	Model		YWZ-315/90
		Braking moment	N.m	630
		Hydraulic braking		Hydraulic braking
	Reducer	Model		JD630
		Speed Ratio		i=17.6
	Steel rope			14NAT6X19W
Slewing mechanism	Electromotor	Model		$YZR132M_1$-6
		Power	Kw	2×4.0 （2x75）
		Turning rate	R/min	975
	Reducer	Model		XX4-80.195C
		Speed Ratio		195
	Brake			Moment Brake
	Slewing ring bearing			011.45.1400.001
Trolleying mechanism	Electromotor	Model		YLEW112M-6
		Power	Kw	60
		Turning rate	R/min	700/1410
	Reducer	Model		SX308
		Speed Ratio		i=33.66
	Steel rope			8NAT6X19W
Hydraulic climbing mechanism	Electromotor	Model		M2QA132M4A
		Power	Kw	7.5
		Turning rate	R/min	1440
	Hydraulic pump	Cylinder model		TQY80

		Route of travel	mm	1600
	Discharge of Hydraulic pump		L/min	14.4
	Working Pressure		MPa	28

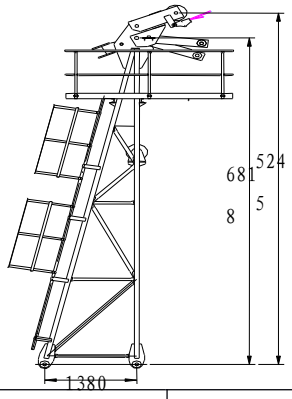
Main Metal Parts List



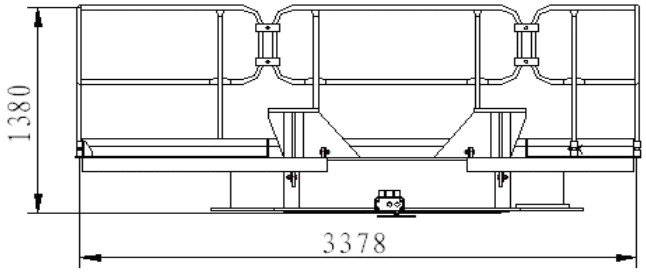


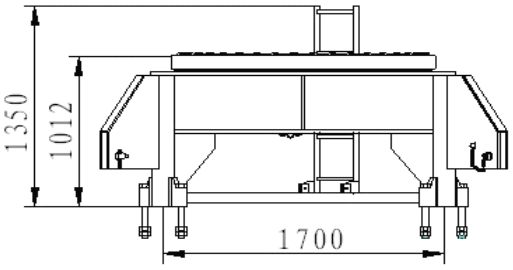
Mast Section	External Dimensions 1835×1835 Overall Height:2800
Main Chord ∠12x135x135mm	

Jib	Total 9 Sections Jib section connected through pin Tie-in of jib is processed after forging and it has small diastema and the jib has good rigidity.
Upper chord ø75、ø70 Lower chord angle steel weld-square ∠90×90×10, ∠80×80×8, ∠70×70×6	

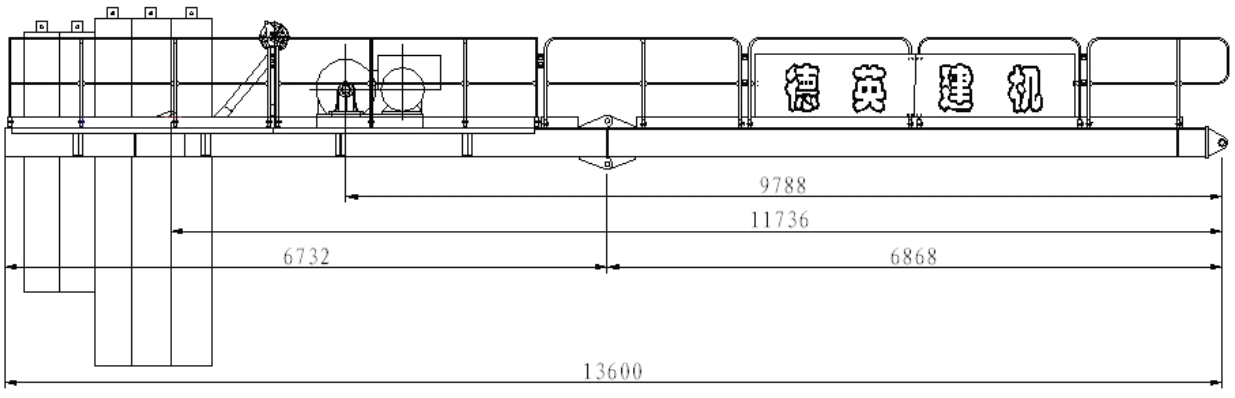


Tower Cap	space truss structure of bilateral symmetry and spire welded by angel steel and steel board
Main chord φ75 round steel	

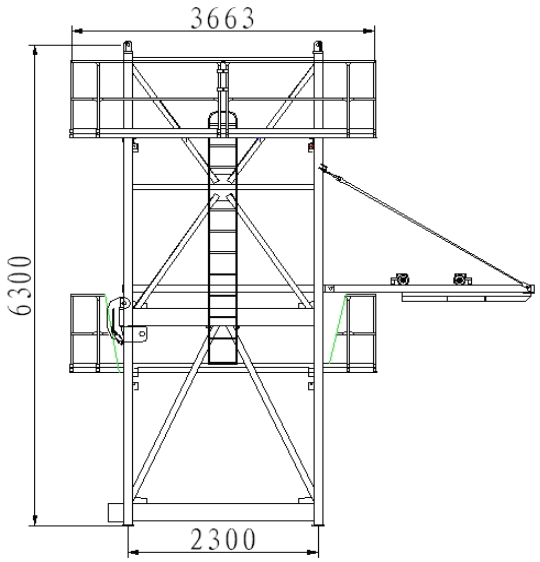




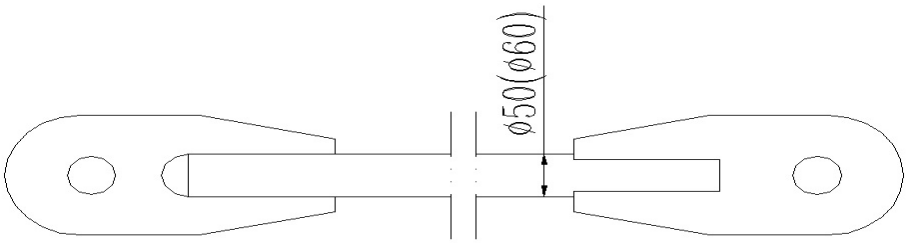
Upper and lower pedestal are welded by steel plate.



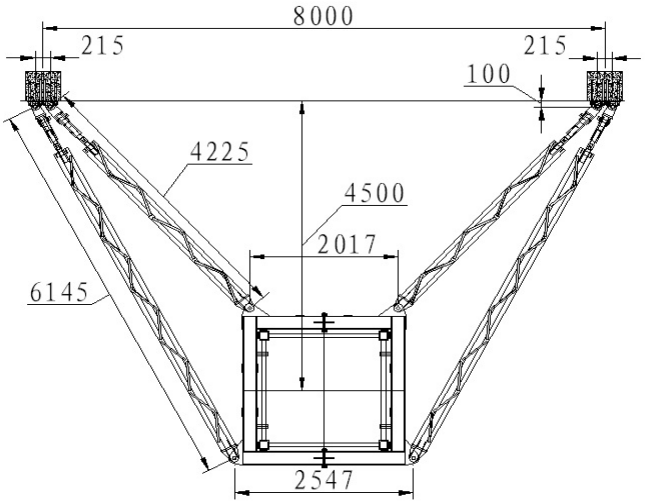
Counter jib	welded by Ⅰ steel, angle steel and expanded metal
Main Chord 32a	



Frame Main chord angle steel weld-square ∠125×125×12	Space frame structure welded by channel steel, angle steel and steel board



Jib Tie Bar Ø50, Ø55 ； Steel board(Q235B 16Mn steel)	welded by Q235B steel(16Mn steel)



Attached Devices The attached tie is composed of two half frames and four brace rod, etc.	welded by channel steel weld-square and steel board