

Technical Sheet for TC7050

Free standing height (m)		50			
Max height with attachment (m)		200			
Working range can be adjusted (m)		50、55、60、65、70			
Min working range (m)		2.5			
Max lifting capacity (t)		20			
Tip load @ 70m (t)		5			
Hoist mechanism (VFD+PLC)	Falls	2		4	
	Lifting capacity (t)	0-5	0-10	0-10	0-20
	Speed (m/min)	0-80	0-40	0-40	0-20
	Motor	YZPBF280S-4-75KW			
Trolleying mechanism (VFD+PLC)	Speed (m/min)	0-60			
	Motor	YPBE132M-4-11KW			
Slewing mechanism (VFD+PLC)	Speed (r/min)	0-0.6			
	Motor	YTRVF 132M2-4-9KW×3			
Climbing speed (m/min)		0.45			
Counterweight (t)		25			
Mast section size (L×W×H) m		2.45×2.45×5			
Working temperature		-40—+60℃			
Total power (KW)		115			
Power supply requirement (KVA)		370KVA for generator			
Cable type (within 35 meters from site power source to lower electric box of tower crane)		70mm ² (3+2, 5 cores)			
Startup voltage & current		380V×95%=361V 408A			
Rated working voltage & current		380V 273A			

Loading diagram:

70m jib length, ratio 4

R	3.7~22.72	24	26	28	30	32	34	36
a=4 (Kg)	20000	18740	18040	15600	14350	13270	12320	11470
R	38	40	42	44	46	48	50	52
a=4 (Kg)	10720	10050	9440	8890	8390	7930	7510	7120
R	54	56	58	60	62	64	66	68
a=4 (Kg)	6770	6430	6130	5840	5570	5320	5080	4860
R	70							
a=4 (Kg)	4650							

70m jib length, ratio 2

R	4.7~41.3	42	44	46	48	50	52	54
a=2 (Kg)	10000	9790	9240	8740	8280	7860	7470	7120
R	56	58	60	62	64	66	68	70
a=2 (Kg)	6780	6480	6190	5920	5670	5430	5210	5000

60m jib length, ratio 4

R	3.7~22.75	24	26	28	30	32	34	36
a=4 (Kg)	20000	18780	17070	15620	14380	13290	12340	11490
R	38	40	42	44	46	48	50	52
a=4 (Kg)	10740	10070	9460	8910	8410	7950	7530	7140
R	54	56	58	60				
a=4 (Kg)	6780	6450	6140	5850				

60m jib length, ratio 2

R	4.7~41.36	42	44	46	48	50	52	54
a=2 (Kg)	10000	9810	9260	8760	8300	7880	7490	7130
R	56	58	60					
a=2 (Kg)	6800	6490	6200					

50m jib length, ratio 4

R	3.7~22.8	24	26	28	30	32	34	36
a=4 (Kg)	20000	18830	17120	15670	14730	13640	12690	11840
R	38	40	42	44	46	48	50	
a=4 (Kg)	11090	10100	9490	8940	8430	7970	7550	

50m jib length, ratio 2

R	4.7~41.45	42	44	46	48	50		
a=2 (Kg)	10000	9840	9290	8780	8320	7900		