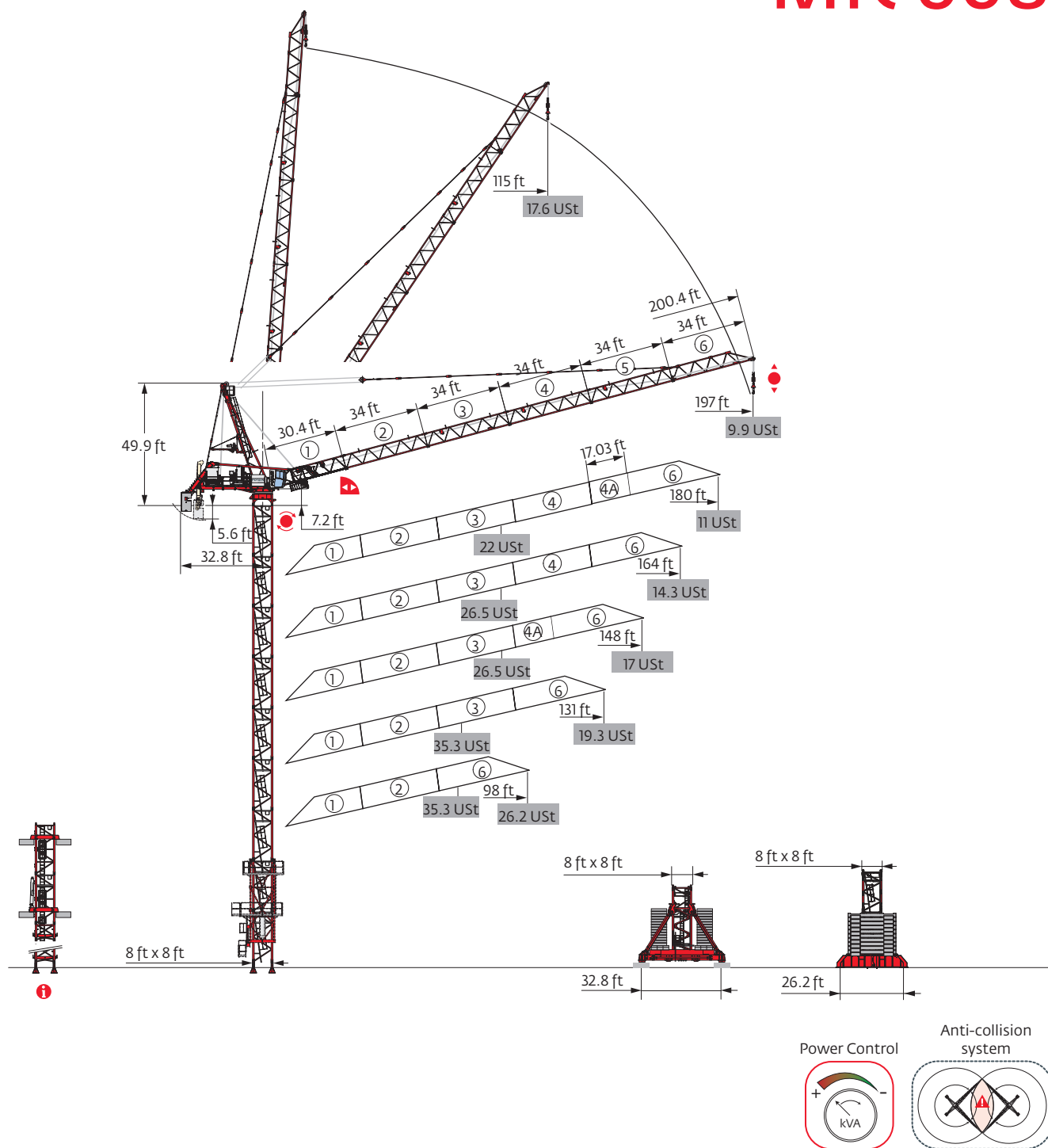


MR 608

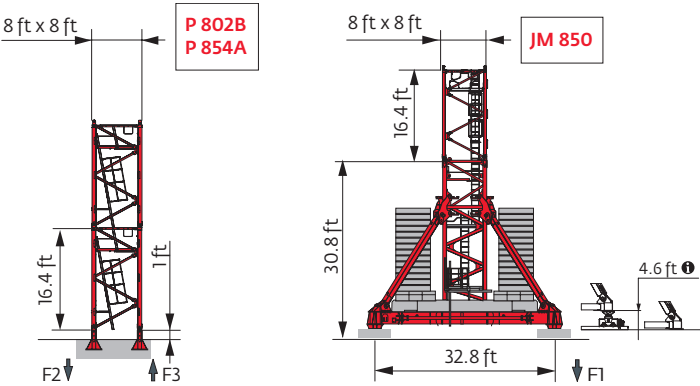


Mast - Reactions

8 ft - P 802B						
▲▲▲ (ft)	98	131	148	164	180	197
↑ (ft)	204.4	193.6	182.4	182.4	182.4	177.2
10.9 ft	0	2	1	1	1	2
16.4 ft	12	10	10	10	10	9
F2 (Ust)	● 294	313	313	311	319	315
	■ 333	351	324	356	384	368
F3 (Ust)	● 189	206	219	219	224	223
	■ 245	261	230	263	289	276

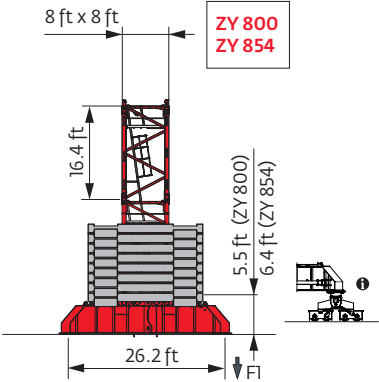
8 ft - P 854A						
▲▲▲ (ft)	98	131	148	164	180	197
↑ (ft)	253.6	253.6	237.2	242.8	237.2	242.8
10.9 ft	0	0	0	2	0	2
16.4 ft	15	15	14	13	14	13
F2 (Ust)	● 353	390	377	381	382	383
	■ 537	620	562	621	618	620
F3 (Ust)	● 233	262	265	271	271	276
	■ 435	510	451	511	506	514

8 ft - JM 850						
▲▲▲ (ft)	98	131	148	164	180	197
↑ (ft)	250.7	239.8	234.3	239.8	234.3	245.1
10.9 ft	0	2	0	2	0	1
16.4 ft	13	11	12	11	12	12
F1 (Ust)	● 159	168	164	174	176	181
	■ 189	196	191	217	218	237



8 ft - ZY 800 - 						
W (ft)	98	131	148	164	180	197
h (ft)	203.4	121.4	99.4	105	99.4	121.4
10.9 ft	1	1	2	1	2	1
16.4 ft	11	6	4	5	4	6
FI (Ust)	● 168	144	134	130	132	140
	■ 156	112	113	106	101	105

8 ft - ZY 854 - 						
W (ft)	98	131	148	164	180	197
h (ft)	258.9	248	237.2	237.2	231.6	237.2
10.9 ft	0	2	1	1	2	1
16.4 ft	15	13	13	13	12	13
FI (Ust)	● 226	235	224	225	223	226
	■ 296	300	279	297	302	304



Note: When "ASCE" is noted in this data sheet it is referring to 115 mph Wind Zone, Exposure B, Design Wind Speed = 98 mph. See back cover for design wind speed calculations.

 Motorized accesses: adapted mast compositions, base ballast and reactions.

Anchorage



Base ballast

 (USt) /  8 ft - JM 850 - 							
 (ft)	98	131	148	164	180	197	
250.7	105.8						
245.1	92.6					172	
239.8	92.6	119.1		145.5		158.7	
234.3	79.4	105.8	119.1	132.3	158.7	132.3	
217.9	52.9	66.1	79.4	92.6	119.1	105.8	
201.4	52.9	52.9	52.9	66.1	92.6	66.1	
185 ↓	52.9	52.9	52.9	52.9	52.9	52.9	
86.6	52.9	52.9	52.9	52.9	52.9	52.9	

 (USt) /  8 ft - ZY 800 - 							
 (ft)	98	131	148	164	180	197	
203.4	119.1						
121.4	92.6	105.8				66.1	
105	92.6	105.8		79.4		52.9	
99.4	92.6	105.8	92.6	79.4	66.1	52.9	
83	92.6	105.8	92.6	79.4	66.1	52.9	

 (USt) /  8 ft - ZY 854 - 							
 (ft)	98	131	148	164	180	197	
258.9	211.6						
248	172	224.9					
237.2	145.5	185.2	224.9	224.9		238.1	
231.6	132.3	172	211.6	198.4	224.9	224.9	
215.2	119.1	119.1	145.5	158.7	172	185.2	
198.8	105.8	92.6	105.8	119.1	132.3	145.5	
182.4	92.6	92.6	105.8	79.4	92.6	105.8	
166	79.4	92.6	105.8	79.4	79.4	92.6	
149.6	79.4	92.6	105.8	79.4	66.1	79.4	
133.2	79.4	92.6	105.8	79.4	52.9	66.1	
116.8	79.4	92.6	105.8	79.4	52.9	52.9	
100.4	79.4	92.6	105.8	79.4	52.9	52.9	
84	79.4	92.6	105.8	79.4	52.9	39.7	

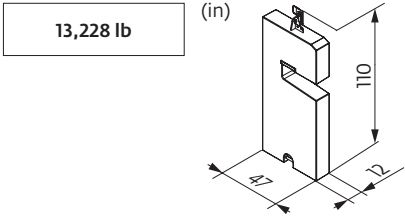
Load curves

 (ft)		77	82	89	98	102	105	115	118	121	131	135	148	154	164	171	180	187	197	ft															
	 17.6 USt																																		
197	18 → 114	17.6	17.6	17.6	17.6	17.6	17.6	17.5	-	16.5	15.3	-	13.4	12.9	12	11.6	10.9	10.5	9.9	USt															
180	17.4 → 115.5	17.6	17.6	17.6	17.6	17.6	17.6	17.6	-	16.8	15.4	15.1	13.7	13	12.2	11.7	11	USt																	
164	16 → 135	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	16	15.3	14.3	USt																			
148	14.8 → 135	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	16.2	USt																					
131	14 → 131	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	USt																								
98	11 → 98	17.6	17.6	17.6	17.6	USt																													

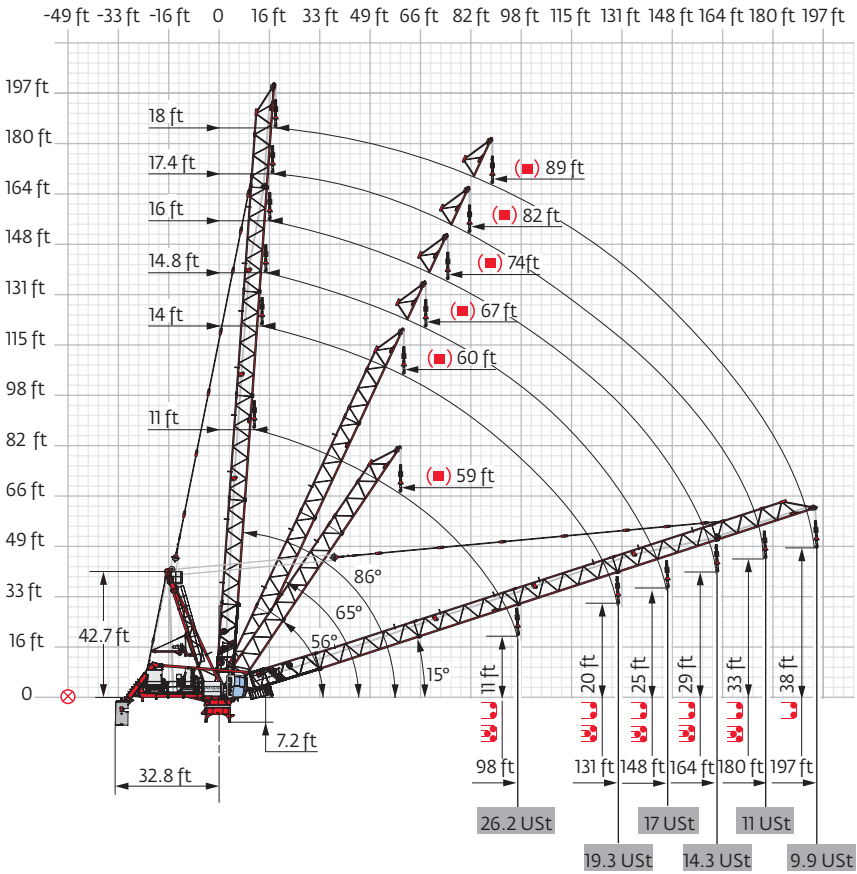
 (ft)		74	77	82	89	98	105	115	121	131	135	148	154	164	171	180	ft								
	 35.3 USt																								
180	17.4 → 95	22	22	22	22	21.3	-	-	17	15.7	15.2	13.8	13.1	12.2	11.7	11	USt								
164	16 → 93	26.5	26.5	26.5	26.5	24.8	23.1	21.1	19.8	18.2	17.7	16.1	15.3	14.3	USt										
148	14.8 → 93	26.5	26.5	26.5	26.5	25.1	23.6	21.6	20.5	19	18.5	17	USt												
131	14 → 74	35.3	-	31.6	29.2	26.1	24.5	22.3	20.9	19.3	USt														
98	11 → 74	35.3	-	31.7	29.3	26.2	USt																		

Jib weight & counter-jib ballast

	 (lb) (+/- 5%)	 13,228 lb	 (lb)
197 ft	32,915	10	132,277
180 ft	33,962	10	132,277
164 ft	31,427	10	132,277
148 ft	30,799	10	132,277
131 ft	28,263	9	119,050
98 ft	23,468	8	105,822



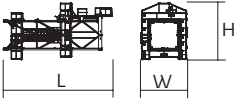
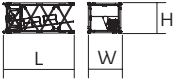
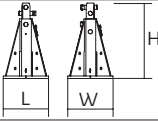
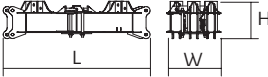
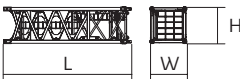
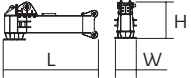
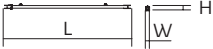
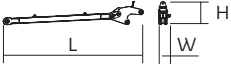
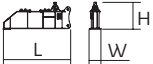
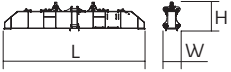
Luffing jib



Dimensions and weight

Slewing crane part:  197 ft -  180 HPL™

Slewing crane part		L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Counter-jib (+ Grab rail + Platform)		22.6	20.9	7.6	11,541
Strut		8.8	7.6	45.8	19,974
Cab	Ultra View	14.8	6.5	8.4	3,605
Towerhead	8 ft	10.6	11.9	11	26,852
Jib section	① ② ③ ④ ⑤	31.5 34.7 34.7 34.7 34.7	7.2 6.2 6.2 6.2 6.2	7.5 6 6 6 6	6,460 4,211 4,299 3,616 3,086
Jib section	④A	17	6.2	6	2,072
Jib section	⑥	34.1	6.2	6	5,291
Pulley block		4.7	1.7	8.9	3,549
Hoisting winch (+ rope)	180 HPL™ 320 LVF	15.8 18.4	6.3 7.2	6.5 7.8	16,788 28,318
Luffing winch (+ rope)	150 VVF	16	5.6	7.1	11,133
Rear left derrick arm (+ auxiliary winch + pulley block)		7.8	3.4	4.3	1,356
Front left derrick arm		11.5	1.4	1.6	419
Articulated derrick arm		13.8	1	1.8	694
Derrick support		6.5	3.6	7.4	1,477

Crane tower				L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Telescopic cage T 851		8 ft		36.7	15.9	19	34,723
K 85/KR 84B2 KM 850.10B KM 850.14B K 85/KR 84A2 KRMT 849A K 849A KR 849A KMT 849A KMT 850.10A KMT 850.14A		8 ft		33.6 33.9 33.9 17.2 17.2 17.2 17.2 17.2 17.5 17.5	8.3 8.3 8.3 8.3 8.4 8.3 8.3 8.4 8.3 8.3	8.2 8.2 8.2 8.2 8.3 8.2 8.2 8.3 8.2 8.2	21,242 22,201 24,670 12,236 9,017 7,496 9,458 6,945 12,015 13,206
KRMT 849C		8 ft		11.7	8.4	8.3	7,066
Fixing angles		P 802B P 854A		2.5 3	2.5 3	4.2 4.9	1,025 2,072
Central cross (transport position)		JM 850		17.1	5.6	4.9	14,771
Basic mast unit		JM 850		28.7	8.2	8.2	32,187
Chassis girder		JM 850		17.1	3	5.1	7,055
Chassis ties		JM 850		23.6	0.8	1.1	551
Struts		JM 850		26.9	2.5	4.3	5,071
1/2 Cross girder		ZY 800 ZY 854		18.6 18.6	3.2 3.2	6.3 7.4	10,406 13,095
Cross girder		ZY 800 ZY 854		39.2 39	4.6 4.7	6.3 7.4	22,212 29,432

Mechanisms

480 V - 60 Hz													hp	kW		
	180 HPL™ 80	fpm	138	171	228	359	504	69	85	115	184	251	180	132	2,385 ft	
		USt	17.6	13.2	8.8	4.4	2.1	35.3	26.5	17.6	8.8	5.2				
	320 LVF 80 Optima	fpm	246	322	449	640	669	125	161	226	318	335	320	240	3,432 ft	
		USt	17.6	13.2	8.8	5.5	4.5	35.3	26.5	17.6	12.2	10.4				
	150 VVF 71		2 min 05 s										150	110		
	RVF 173 Optima +	rpm	0 → 1										3 x 10	3 x 7.5		
																

 IEC 60204-32	kVA
480 V (+6% -10%) 60 Hz	180 HPL™ + 150 VVF : 293 → 161 kVA 320 LVF + 150 VVF : 405 → 217 kVA 

These mast combinations meet the EN 14439 and ASME B30.3-2016 specifications for "out of service" wind conditions, provided the illustrated wind speed matches required design wind speed for the location of the tower crane. The "out of service" design wind speed was determined in accordance with ASCE 7-10, Figure 26.5-1A. The wind velocity, used for this configuration was 98 mph (158 kph), which represents a nominal design 3-second wind gust at 33 ft (10 m) above ground for Exposure B category. A factor of 0.85 was applied to the 700-year ultimate design wind speed of 115 mph (185 kph), per ASCE 37-02, with the assumption that this crane is considered a temporary structure used during a construction period of 2 years or less.

	Standard equipment		Jib articulation axis		Slewing
	Options		Weather vaning position		Travelling
	Reactions in service		Lorry 44 ft		Required power
	Reactions out of service		Container High Cube 40 ft, and/or Flat Rack 20 ft		Power Control Function: winch speeds adapted to the available power
	Jib weight		Hoisting		Consult us
	Total ballast weight		Luffing		



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