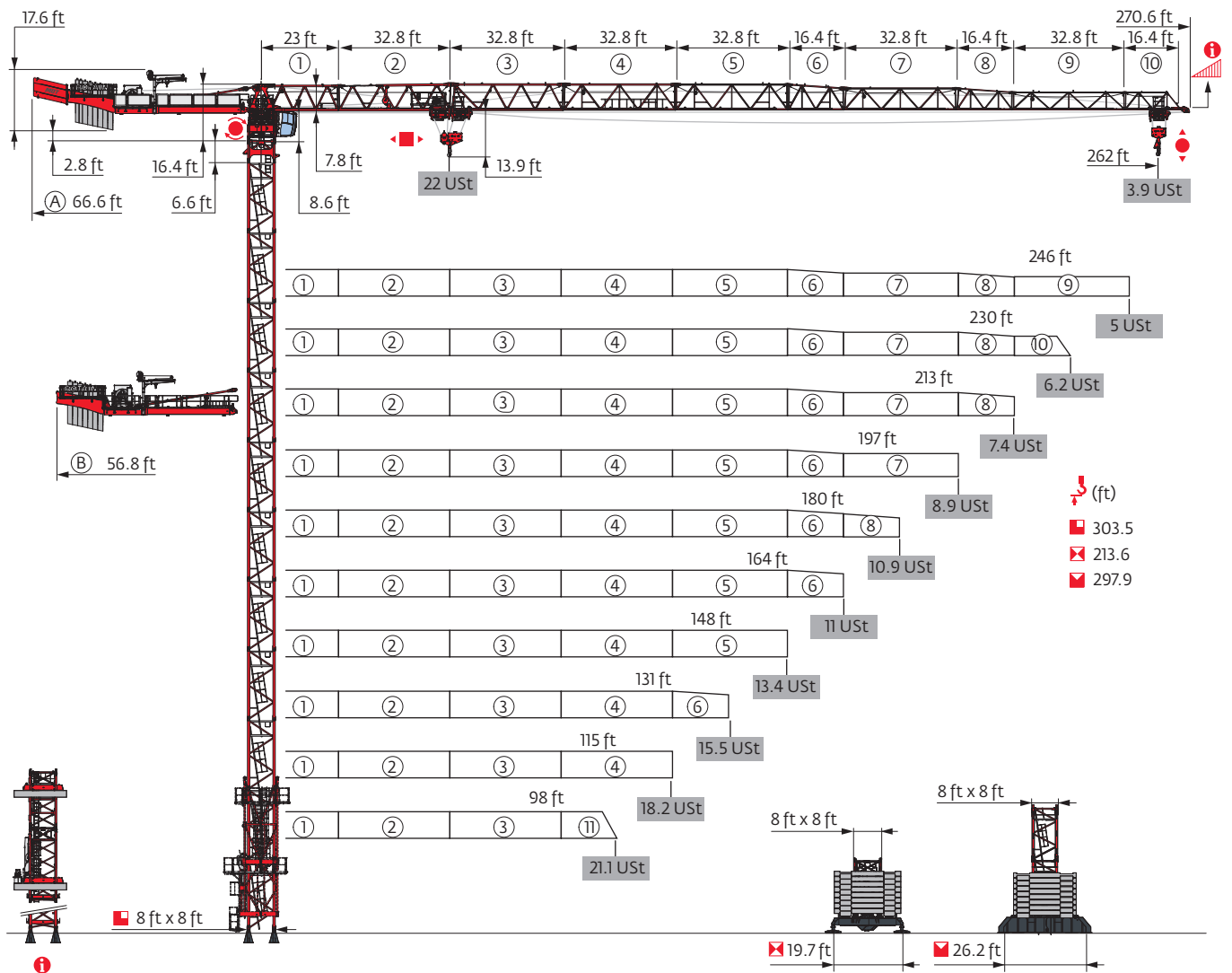


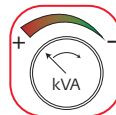
## MDT 489 M20



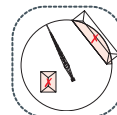
Potain Plus



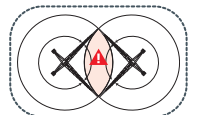
Power Control



Top Site



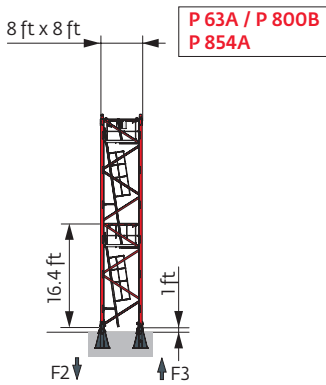
Top Tracing 3



Mast - Reactions

8 ft - P 800B											
Height (ft)	98	115	131	148	164	180	197	213	230	246	262
Height (ft)	243.1	237.9	237.9	237.9	232.3	232.3	232.3	226.7	221.5	215.9	205.1
Height/P <sub>r</sub> (ft)	243.1	237.9	237.9	237.9	232.3	232.3	232.3	226.7	221.5	215.9	205.1
6.6 ft	1	1	1	1	1	1	1	1	1	1	1
10.9 ft	1	2	2	2	0	0	0	1	2	0	2
16.4 ft	14	13	13	13	14	14	14	13	12	13	11
F2 (Ust)	● 268	264	267	266	250	265	262	256	255	248	235
	■ 377	360	366	371	348	352	355	348	345	338	317
F3 (Ust)	● 182	175	175	171	166	167	164	156	155	150	136
	■ 299	280	284	286	263	265	266	258	255	251	229

8 ft - P 854A											
Height (ft)	98	115	131	148	164	180	197	213	230	246	262
Height (ft)	303.5	303.5	303.5	297.9	297.9	297.9	297.9	297.9	292.3	287.1	287.1
Height/P <sub>r</sub> (ft)	303.5	303.5	303.5	297.9	297.9	297.9	297.9	297.9	292.3	287.1	287.1
6.6 ft	1	1	1	1	1	1	1	1	1	1	1
10.9 ft	2	2	2	0	0	0	0	0	1	2	2
16.4 ft	17	17	17	18	18	18	18	18	17	16	16
F2 (Ust)	● 333	331	335	327	316	331	334	335	339	334	336
	■ 613	610	616	592	584	589	596	602	596	592	598
F3 (Ust)	● 229	225	225	216	206	216	217	217	221	219	220
	■ 518	511	516	491	484	485	489	494	489	488	493



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.

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

Other mast compositions - Please consult us

8 ft - ZX 6830 - 

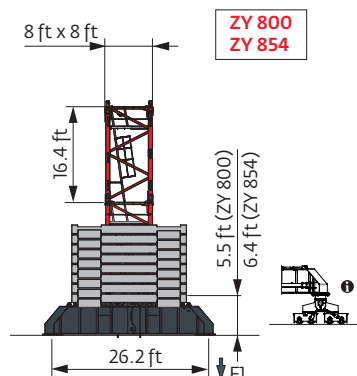
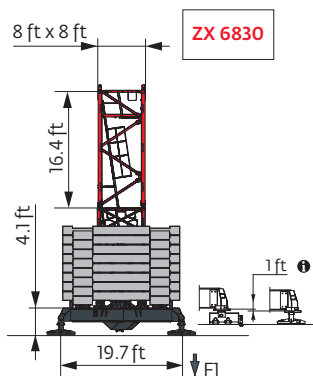
Height (ft)	98	115	131	148	164	180	197	213	230	246	262
Height (ft)	191.6	197.2	191.6	191.6	213.6	202.4	208	208	202.4	202.4	197.2
Height/P+ (ft)	186	191.6	186	186	213.6	186	186	202.4	191.6	197.2	197.2
6.6 ft	1	1	1	1	1	1	1	1	1	1	1
10.9 ft	2	1	2	2	1	0	2	2	0	0	1
16.4 ft	10	11	10	10	12	12	11	11	12	12	11
FI (USt)	● 154	156	157	155	156	157	156	157	157	156	156
	■ 144	148	147	146	174	157	170	173	167	179	172

8 ft - ZY 800 - 

Height (ft)	98	115	131	148	164	180	197	213	230	246	262
Height (ft)	242.1	236.9	236.9	236.9	225.7	225.7	225.7	225.7	220.5	214.9	204.1
Height/P+ (ft)	242.1	236.9	236.9	220.5	225.7	225.7	225.7	225.7	220.5	214.9	204.1
6.6 ft	1	1	1	1	1	1	1	1	1	1	1
10.9 ft	2	0	0	0	2	2	2	2	0	1	0
16.4 ft	13	14	14	14	12	12	12	12	13	12	12
FI (USt)	● 157	151	153	153	143	150	149	147	143	140	138
	■ 187	170	174	176	162	163	165	169	162	166	151

8 ft - ZY 854 - 

Height (ft)	98	115	131	148	164	180	197	213	230	246	262
Height (ft)	297.9	297.9	297.9	292.3	292.3	292.3	292.3	286.8	286.8	281.5	270.3
Height/P+ (ft)	297.9	297.9	297.9	292.3	292.3	292.3	292.3	286.8	286.8	281.5	270.3
6.6 ft	1	1	1	1	1	1	1	1	1	1	1
10.9 ft	1	1	1	2	2	2	2	0	0	1	0
16.4 ft	17	17	17	16	16	16	16	17	17	16	16
FI (USt)	● 216	213	216	215	211	221	220	209	216	214	202
	■ 306	304	310	303	304	308	311	295	304	305	279



Anchorage



Base ballast

**USt / 8 ft - ZX 6830**

ft)	98	115	131	148	164	180	197	213	230	246	262
213.6					144.4						
208					144.4		133.4	133.4			
202.4					133.4	144.4	133.4	133.4	144.4	144.4	
197.2		155.4			133.4	133.4	122.4	133.4	144.4	144.4	144.4
191.6	155.4	155.4	155.4	144.4	122.4	133.4	122.4	133.4	144.4	144.4	144.4
175.2	155.4	155.4	144.4	144.4	111.3	133.4	122.4	122.4	133.4	133.4	133.4
158.8	144.4	144.4	144.4	133.4	100.3	122.4	111.3	122.4	133.4	133.4	133.4
142.4	133.4	133.4	122.4	122.4	100.3	111.3	100.3	122.4	133.4	122.4	133.4
126	122.4	122.4	122.4	111.3	89.3	111.3	89.3	111.3	122.4	122.4	122.4
109.6	122.4	122.4	111.3	111.3	89.3	111.3	89.3	111.3	122.4	122.4	122.4
93.2	122.4	122.4	111.3	111.3	89.3	111.3	89.3	111.3	122.4	111.3	122.4
76.8	122.4	122.4	111.3	111.3	89.3	100.3	89.3	111.3	122.4	111.3	122.4

**USt / 8 ft - ZY 800**

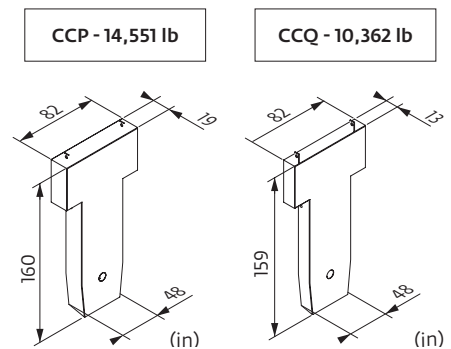
ft)	98	115	131	148	164	180	197	213	230	246	262
242.1	105.8										
236.9	92.6	92.6	92.6	79.4							
225.7	92.6	92.6	79.4	79.4	66.1	66.1	66.1	66.1			
220.5	92.6	79.4	79.4	79.4	66.1	66.1	66.1	66.1	66.1		
214.9	92.6	79.4	79.4	79.4	66.1	66.1	66.1	52.9	66.1	66.1	
204.1	79.4	79.4	79.4	66.1	52.9	52.9	52.9	52.9	66.1	66.1	79.4
187.7	79.4	66.1	66.1	66.1	39.7	52.9	39.7	52.9	66.1	66.1	66.1
171.3	66.1	66.1	66.1	52.9	39.7	52.9	39.7	52.9	66.1	66.1	66.1
154.9	66.1	52.9	52.9	52.9	39.7	52.9	39.7	52.9	66.1	66.1	66.1
138.5	52.9	52.9	52.9	39.7	39.7	52.9	39.7	52.9	52.9	66.1	66.1
122.1	52.9	39.7	39.7	39.7	39.7	52.9	39.7	52.9	52.9	52.9	66.1
105.6	52.9	39.7	39.7	39.7	39.7	52.9	39.7	52.9	52.9	52.9	52.9
89.2	52.9	39.7	39.7	39.7	39.7	52.9	39.7	52.9	52.9	52.9	52.9
72.8	52.9	39.7	39.7	39.7	39.7	52.9	39.7	52.9	52.9	52.9	52.9

**USt / 8 ft - ZY 854**

ft)	98	115	131	148	164	180	197	213	230	246	262
297.9	238.1	224.9	224.9								
292.3	224.9	211.6	211.6	224.9	224.9	224.9	224.9				
286.8	198.4	185.2	198.4	198.4	198.4	198.4	198.4	198.4	211.6		
281.5	185.2	185.2	185.2	185.2	185.2	185.2	185.2	185.2	198.4	211.6	
270.3	158.7	145.5	145.5	145.5	145.5	145.5	145.5	145.5	158.7	185.2	185.2
253.9	132.3	119.1	119.1	119.1	105.8	105.8	105.8	105.8	119.1	132.3	145.5
237.5	92.6	79.4	79.4	79.4	79.4	79.4	66.1	79.4	79.4	92.6	105.8
221.1	79.4	79.4	79.4	66.1	52.9	66.1	52.9	52.9	52.9	66.1	79.4
204.7	66.1	66.1	66.1	66.1	39.7	52.9	39.7	52.9	52.9	66.1	66.1
188.3	66.1	66.1	52.9	52.9	39.7	39.7	39.7	39.7	52.9	66.1	66.1
171.9	52.9	52.9	52.9	52.9	26.5	39.7	26.5	39.7	52.9	52.9	52.9
155.5	52.9	39.7	39.7	39.7	26.5	39.7	26.5	39.7	52.9	52.9	52.9
139.1	39.7	39.7	39.7	26.5	26.5	39.7	26.5	39.7	52.9	52.9	52.9
122.7	39.7	39.7	39.7	26.5	26.5	39.7	26.5	39.7	52.9	52.9	52.9
106.3	39.7	39.7	39.7	26.5	26.5	39.7	26.5	39.7	52.9	39.7	52.9
89.9	39.7	39.7	39.7	26.5	26.5	39.7	26.5	39.7	52.9	39.7	39.7
73.5	39.7	39.7	39.7	26.5	26.5	39.7	26.5	39.7	52.9	39.7	39.7

Counter-jib ballast

ft)	132 HPL™			180 HPL™ GH		
	14,551 lb	10,362 lb	USt (lb)	14,551 lb	10,362 lb	USt (lb)
262 ft	6	2	108,027	7	0	101,854
246 ft	7	0	101,854	6	1	97,665
230 ft	7	0	101,854	6	1	97,665
213 ft	7	0	101,854	6	1	97,665
197 ft	6	1	97,665	5	2	93,476
180 ft	5	2	93,476	6	0	87,303
164 ft	6	0	87,303	5	1	83,114
148 ft	4	2	78,925	3	3	74,737
131 ft	5	0	72,753	4	1	68,564
115 ft	4	1	68,564	3	2	64,375
98 ft	4	0	58,202	3	1	54,013



Load curves



▽▽▽▽▽ (ft)		56	66	82	98	115	131	138	148	154	164	171	180	187	197	203	213	220	230	236	246	253	262	ft	
	22 Ust																								
	11 Ust																								
262	13.1 → 56.4 13.1 → 61.4	22	18.5	14	11.1	10.5	8.9	8.4	7.7	7.3	6.7	6.4	6	5.7	5.3	5.1	4.8	4.6	4.3	4.1	3.9	3.7	3.5	USt	
	98.9 - 109.8 106.3 - 118.1	22	20.3	15.4	12.2	11	9.8	9.2	8.5	8	7.4	7.1	6.6	6.3	5.8	5.6	5.2	5	4.7	4.5	4.3	4.1	3.9	USt <b>P+</b>	
246	13.1 → 66.3 13.1 → 71.5	22	22	16.9	13.3	11	10.4	9.8	9	8.5	7.8	7.5	6.9	6.6	6.2	5.9	5.5	5.3	5	4.8	4.5	USt			
	121.7 - 134.5 130.2 - 142.2	22	22	18.5	14.7	11.9	11	10.8	9.9	9.3	8.6	8.2	7.6	7.3	6.8	6.5	6.1	5.8	5.5	5.3	5	USt <b>P+</b>			
230	13.1 → 78.1 13.1 → 82	22	22	20.7	16.2	13.2	11	11	10.5	9.9	9.1	8.7	8	7.7	7.1	6.8	6.4	6.1	5.7	USt					
	137.4 - 150.1 138.4 - 151.1	22	22	22	17.4	14.2	11.8	11	11	10.6	9.8	9.3	8.7	8.3	7.7	7.4	6.9	6.6	6.2	USt <b>P+</b>					
213	13.1 → 83 13.1 → 85.3	22	22	22	17.6	14.3	11.9	11.1	11	10.7	9.9	9.4	8.7	8.3	7.8	7.4	6.9	USt							
	143.8 - 157.5 144.4 - 158.3	22	22	22	18.4	15	12.5	11.7	11	11	10.4	9.9	9.2	8.8	8.2	7.9	7.4	USt <b>P+</b>							
197	13.1 → 84.3 13.1 → 88.9	22	22	22	18.2	14.9	12.5	11.7	11	11	10.5	10	9.4	8.9	8.4	USt									
	151.6 - 166.2 156.2 - 172.6	22	22	22	19.4	15.9	13.4	12.5	11.4	11	11	10.7	9.9	9.5	8.9	USt <b>P+</b>									
180	13.1 → 87.6 13.1 → 91.9	22	22	22	19.3	16.1	13.7	12.9	11.8	11.2	11	11	10.5	USt											
	161.8 - 178.3 148.5 - 164	22	22	22	20.3	16.9	14.4	13.5	12.4	11.7	11	11	10.9	USt <b>P+</b>											
164	13.1 → 83.3 13.1 → 83.3	22	22	22	18.2	15.1	12.9	12.1	11.1	11	11	USt													
	131 → 89.9 131 → 89.9	22	22	22	19.9	16.6	14.1	13.3	12.2	USt															
148	13.1 → 89.9 13.1 → 89.9	22	22	22	20	16.9	14.6	13.8	12.8	USt <b>P+</b>															
131	13.1 → 90.9 13.1 → 91.9	22	22	22	20.1	16.8	14.3	USt																	
	131 → 91.9 13.1 → 91.9	22	22	22	20.5	17.3	14.8	USt <b>P+</b>																	
115	13.1 → 91.9 13.1 → 91.9	22	22	22	20.3	17	USt																		
	13.1 → 89.9 13.1 → 91.2	22	22	22	20.6	17.6	USt <b>P+</b>																		
98	13.1 → 89.9 13.1 → 91.2	22	22	22	19.8	USt																			
		22	22	22	20.4	USt <b>P+</b>																			

$\text{USt} = \text{USt} - 1.58 \text{ USt max.}$



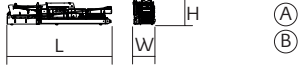





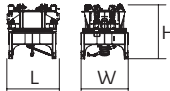
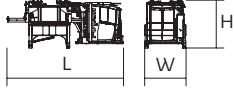
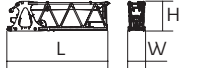






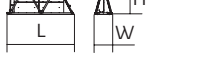
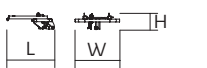
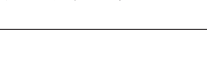


▽▽▽▽▽ (ft)		56	66	82	98	115	131	138	148	154	164	171	180	187	197	203	213	220	230	236	246	253	262	ft	
	22 Ust																								
	11 Ust																								
262	10.8 → 57.7 10.8 → 62.3	22	19	14.5	11.6	9.8	8.3	7.8	7.1	6.7	6.1	5.8	5.3	5.1	4.7	4.5	4.1	3.9	3.7	3.5	3.3	3.1	2.9	USt	
	110.1 - 112.8 117.5 - 119.9	22	20.8	15.9	12.7	10.8	9.2	8.6	7.9	7.4	6.8	6.4	5.9	5.6	5.2	5	4.6	4.4	4.1	3.9	3.7	3.5	3.3	USt <b>P+</b>	
246	10.8 → 67.6 10.8 → 72.8	22	22	17.4	13.8	11.4	9.8	9.2	8.4	7.9	7.3	6.9	6.4	6.1	5.6	5.3	5	4.7	4.4	4.2	4	USt			
	125.9 - 129 135.1 - 137.8	22	22	19.1	15.2	12.4	10.8	10.2	9.3	8.8	8.1	7.6	7.1	6.7	6.2	5.9	5.5	5.3	4.9	4.7	4.4	USt <b>P+</b>			
230	10.8 → 79.7 10.8 → 84	22	22	21.2	16.8	13.7	11.5	11	10	9.5	8.7	8.2	7.6	7.2	6.7	6.4	5.9	5.7	5.3	USt					
	142.5 - 145.1 144 - 146.6	22	22	22	18	14.7	12.3	11.5	10.6	10.2	9.4	8.9	8.2	7.8	7.2	6.9	6.4	6.2	5.8	USt <b>P+</b>					
213	10.8 → 85 10.8 → 87.6	22	22	22	18.2	14.9	12.5	11.7	10.9	10.3	9.5	9	8.3	7.9	7.4	7	6.5	USt							
	149.7 - 152.6 150.6 - 154.2	22	22	22	19	15.6	13.1	12.3	11.2	10.9	10	9.5	8.8	8.4	7.8	7.5	7	USt <b>P+</b>							
197	10.8 → 86.3 10.8 → 90.9	22	22	22	18.8	15.6	13.2	12.4	11.3	11	10.2	9.6	9	8.5	8	USt									
	158.1 - 161.3 163.5 - 167.5	22	22	22	20	16.6	14	13.2	12	11.4	10.6	10.3	9.5	9.1	8.5	USt <b>P+</b>									
180	10.8 → 89.6 10.8 → 94.2	22	22	22	19.9	16.7	14.3	13.5	12.5	11.8	11	10.6	10.1	USt											
	169.1 - 173 155.4 - 159.2	22	22	22	21	17.5	15	14.1	13	12.3	11.4	11	10.5	USt <b>P+</b>											
164	10.8 → 85.3 10.8 → 85.3	22	22	22	18.8	15.8	13.5	12.7	11.7	11.1	10.6	USt													
	159 - 164	22	22	22	18.9	16	13.7	13	12	11.4	11	USt <b>P+</b>													
148	10.8 → 92.2 10.8 → 92.2	22	22	22	20.5	17.2	14.8	13.9	12.9	USt															
	131 → 93.2 131 → 94.2	22	22	22	20.6	17.5	15.2	14.4	13.4	USt <b>P+</b>															
131	10.8 → 93.2 10.8 → 94.2	22	22	22	20.7	17.4	14.9	USt																	
	131 → 94.2 10.8 → 93.8	22	22	22	21.1	17.9	15.5	USt <b>P+</b>																	
115	10.8 → 93.8 10.8 → 94.2	22	22	22	20.9	17.6	USt																		
	131 → 91.9 10.8 → 93.5	22	22	22	21.2	18.2	USt <b>P+</b>																		
98	10.8 → 91.9 10.8 → 93.5	22	22	22	20.5	USt																			
		22	22	22	21.1	USt <b>P+</b>																			

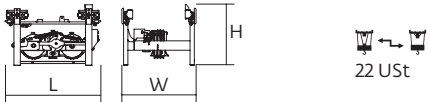

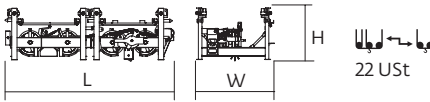

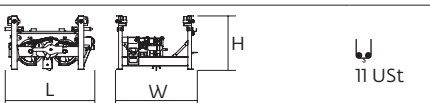


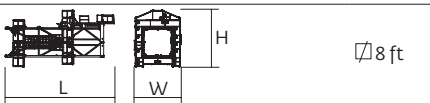

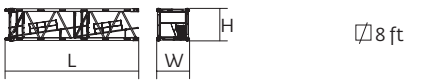

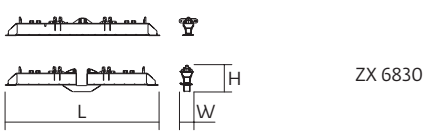

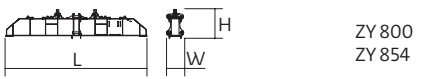
$\text{USt} = \text{USt} - 0.45 \text{ USt max.}$

Dimensions and weight

Slewing crane part:  262 ft -  132 HPL™



Slewing crane part		L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Counter-jib		39	7.2	8.3	29,983
		39	7.2	8.3	29,101
	 132 HPL™	62.9	18.7	12.9	33,290
		53	18.7	12.9	32,408
Counter-jib	 132 HPL™	62.9	18.7	12.9	46,213
		53	18.7	12.9	45,331
Counter-jib	 180 HPL™ GH	62.9	22	12.9	34,392
		53	22	12.9	33,290
Hoisting winch (+ rope)	 132 HPL™ 180 HPL™ GH	12.4 15.8	6.1 6.3	6.2 6.5	12,923 19,282
Cab	 Ultra View	11	7.5	8.2	6,614
Towerhead	 2,45 m	9.1	8.1	9.5	24,912
		23.1	8.1	9.5	31,526
Jib section	 ①	27.8	5.2	8.1	14,771
	 ②	34	7.3	8.2	14,330
	 ③	34	4.5	8.2	7,937
	 ④	33.7	4.5	8	6,790
	 ⑤	33.6	4.5	8	4,960
	 ⑦	33.7	4.5	6.7	3,329
	 ⑨	33.4	4.5	5.7	2,293
	 ⑥	17.4	4.5	7.8	2,425
	 ⑧	17.1	4.5	6.5	1,455
	 ⑩	16.7	4.5	5.3	992
	 ⑪	17	4.5	8	3,660
		5.5	5.2	1.9	575

		L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Trolley		7.3	5.7	4.7	1,676
Pulley block		5.1	1.9	8	1,874
Trolley		12.5	5.6	4.1	2,469
Pulley block		6.3	1.1	7.7	2,028
Trolley		6.6	5.6	4.1	1,323
Pulley block		4.1	1.1	8.5	1,345
Trolley inspection platform		3.1	3.4	7	125
<b>Crane tower</b>					
T 851		36.7	15.9	19	34,723
K 84/K 84-2		7.3	10.6	8.2	6,724
KRM 849B K 85/KR 84B2 KM 850.10B KM 850.14B K 85/KR 84A2 KMT 850.10A KMT 850.14A K 849A KMT 849A KR 849A KRMT 849A KRMT 849C KMT 850.10C		33.6 33.6 33.9 33.9 17.2 17.5 17.5 17.2 17.2 17.2 17.2 17.2 11.7 12	8.4 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.3 8.4 8.3 8.4 8.3	8.3 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.2 8.3 8.3 8.3 8.2	17,196 21,242 22,201 24,670 12,236 12,015 13,206 7,496 6,945 9,458 9,017 7,066 9,326
Fixing angles		2.5 3	2.5 3	4.2 4.9	1,025 2,072
Cross girder		29.9	3.7	3.6	11,607
		29.9	2.5	4.9	12,004
1/2 Cross girder		18.6	3.2	6.3	10,406
		18.7	3.2	7.4	14,176
Cross girder		39.2 39	4.6 4.7	6.3 7.4	22,212 30,865

Mechanisms

480 V - 60 Hz													ch - PS hp	kW	
	132 HPL™ 50	fpm	164	213	299	449	612	82	108	153	230	305	132	98	3,507 ft
		USt	11	8.3	5.5	2.8	0.7	22	16.5	11	5.5	2.1			
	180 HPL™ 50 GH	fpm	210	256	333	494	640	107	131	174	271	320	180	132	3,937 ft
		USt	11	8.3	5.5	2.8	0.9	22	16.5	11	5.5	3.3			
	10 DVF 10 Optima	fpm	0 → 262 (22 USt) 0 → 328 (13.8 USt) 0 → 361 (6.9 USt)										10	7.4	
	RVF 173 Optima+	rpm	0 → 0.7										3 x 10	3 x 7.5	

480 V (+6% -10%) 60 Hz	132 HPL™: 142 → 90 kVA 180 HPL™ GH: 181 → 109 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.

- Jib elevation
- Standard equipment
- Options
- Potain Plus function: Plus load curves
- Hook heights with Plus load curves
- Reactions in service
- Reactions out of service
- Total ballast weight
- Jib weight
- Lorry 44 ft
- Container High Cube 40 ft, and/or Flat Rack 20 ft
- Hoisting
- Trolleying
- Slewing
- Travelling
- Required power
- Power Control Function: winch speeds adapted to the available power
- Consult us

This commercial document is not legally binding. For any technical information, please refer to the corresponding instructions.

