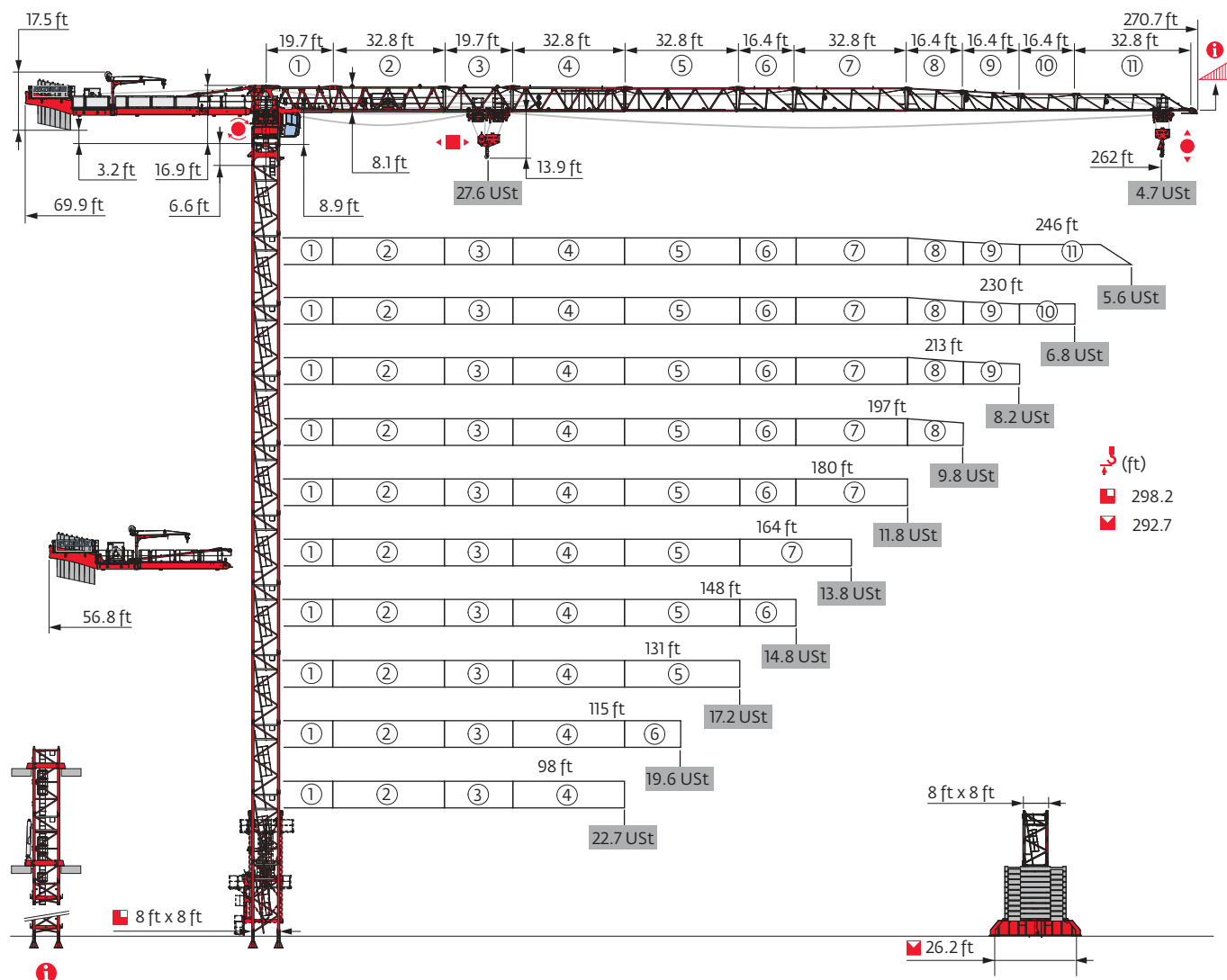


MDT 569 M25

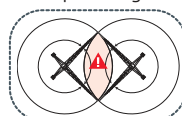
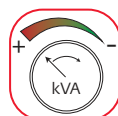


Potain Plus

Power Control

Top Site

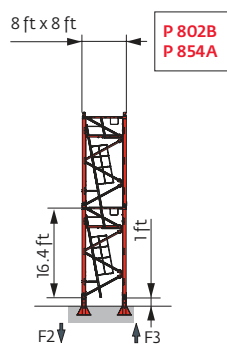
Top Tracing 3



Mast - Reactions

8 ft - P 802B											
▲▲▲ (ft)	98	115	131	148	164	180	197	213	230	246	262
↕ (ft)	232.6	227	227	221.8	221.8	216.2	216.2	216.2	216.2	216.2	205.4
↕/P* (ft)	232.6	227	227	221.8	221.8	216.2	216.2	216.2	216.2	216.2	205.4
6.6 ft	1	1	1	1	1	1	1	1	1	1	1
10.9 ft	0	1	1	2	2	0	0	0	0	0	2
16.4 ft	14	13	13	12	12	13	13	13	13	13	11
F2 (USt)	● 279	280	280	282	279	272	280	277	271	262	262
	■ 351	332	338	334	330	325	330	332	347	354	333
F3 (USt)	● 182	182	174	175	169	168	174	173	167	158	157
	■ 268	246	247	240	234	234	237	241	255	264	242

8 ft - P 854A											
▲▲▲ (ft)	98	115	131	148	164	180	197	213	230	246	262
↕ (ft)	298.2	292.7	298.2	292.7	298.2	292.7	292.7	292.7	287.4	281.8	276.3
↕/P* (ft)	298.2	292.7	298.2	292.7	292.7	292.7	287.4	287.4	287.4	281.8	276.3
6.6 ft	1	1	1	1	1	1	1	1	1	1	1
10.9 ft	0	1	0	1	0	1	1	1	2	0	1
16.4 ft	18	17	18	17	18	17	17	17	16	17	16
F2 (USt)	● 353	355	359	360	356	357	355	355	359	342	351
	■ 613	603	624	617	617	615	607	610	614	586	578
F3 (USt)	● 236	236	234	234	228	235	233	233	236	224	231
	■ 510	496	513	504	503	506	498	501	504	480	471

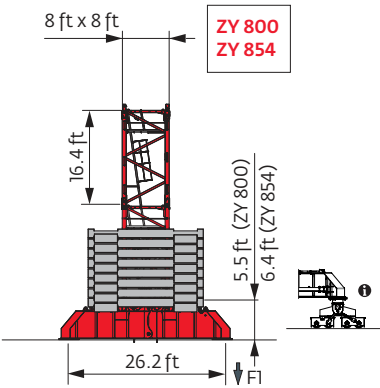


i Motorized accesses: adapted mast compositions, base ballast and reactions.

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.

8 ft - ZY 800 - 												
ΔΔΔ (ft)	98	115	131	148	164	180	197	213	230	246	262	
 (ft)	220.8	215.2	220.8	220.8	215.2	215.2	209.7	209.7	215.2	209.7	198.8	
 /P+ (ft)	220.8	215.2	209.7	198.8	204.4	188	209.7	209.7	215.2	209.7	198.8	
	6.6 ft	1	1	1	1	1	1	1	1	1	1	
	10.9 ft	0	1	0	0	1	2	2	1	2	1	
	16.4 ft	13	12	13	13	12	12	11	12	11	11	
FI (Ust)	● 154	154	155	158	152	151	154	154	161	154	156	
	■ 148	138	146	152	140	152	149	150	168	167	154	

8 ft - ZY 854 - 												
ΔΔΔ (ft)	98	115	131	148	164	180	197	213	230	246	262	
 (ft)	292.7	287.1	292.7	287.1	287.1	287.1	281.8	281.8	281.8	276.3	265.4	
 /P+ (ft)	292.7	287.1	292.7	287.1	287.1	287.1	281.8	281.8	281.8	276.3	265.4	
	6.6 ft	1	1	1	1	1	1	1	1	1	1	
	10.9 ft	2	0	2	0	0	1	1	1	2	1	
	16.4 ft	16	17	16	17	17	16	16	16	15	15	
FI (Ust)	● 227	216	230	226	223	225	228	224	229	223	211	
	■ 312	292	320	306	298	305	307	308	313	308	280	



Anchorage



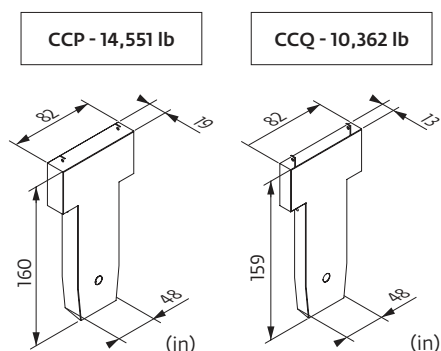
Base ballast

Ust) / 8 ft - ZY 800 -											
(ft)	98	115	131	148	164	180	197	213	230	246	262
220.8	92.6		79.4	79.4							
215.2	92.6	92.6	79.4	79.4	66.1	66.1			105.8		
209.7	79.4	79.4	79.4	66.1	66.1	66.1	79.4	79.4	92.6	105.8	
198.8	79.4	79.4	66.1	66.1	66.1	66.1	79.4	79.4	92.6	105.8	119.1
182.4	66.1	66.1	66.1	52.9	66.1	66.1	79.4	79.4	92.6	92.6	105.8
166	52.9	52.9	52.9	39.7	66.1	66.1	79.4	79.4	92.6	92.6	105.8
149.6	52.9	52.9	52.9	39.7	52.9	66.1	79.4	66.1	92.6	92.6	105.8
133.2	39.7	52.9	39.7	39.7	52.9	52.9	79.4	66.1	79.4	79.4	92.6
116.8	39.7	39.7	39.7	39.7	52.9	52.9	79.4	66.1	79.4	79.4	92.6
100.4	39.7	39.7	39.7	39.7	52.9	52.9	79.4	66.1	79.4	79.4	92.6
84	39.7	39.7	39.7	39.7	52.9	52.9	79.4	66.1	66.1	79.4	79.4
67.6	39.7	39.7	39.7	39.7	52.9	52.9	79.4	66.1	66.1	66.1	79.4

Ust) / 8 ft - ZY 854 -											
(ft)	98	115	131	148	164	180	197	213	230	246	262
292.7	224.9		211.6								
287.1	198.4	185.2	185.2	198.4	185.2	211.6					
281.8	185.2	172	172	185.2	172	198.4	211.6	198.4	224.9		
276.3	172	158.7	158.7	158.7	158.7	185.2	185.2	185.2	211.6	224.9	
265.4	145.5	132.3	119.1	132.3	119.1	145.5	145.5	158.7	172	185.2	185.2
249	105.8	105.8	92.6	92.6	92.6	105.8	105.8	105.8	119.1	132.3	132.3
232.6	92.6	92.6	79.4	79.4	79.4	79.4	79.4	79.4	92.6	92.6	105.8
216.2	79.4	79.4	66.1	66.1	66.1	66.1	79.4	66.1	92.6	92.6	105.8
199.8	66.1	66.1	66.1	52.9	52.9	52.9	66.1	66.1	92.6	92.6	105.8
183.4	52.9	52.9	52.9	39.7	52.9	52.9	66.1	66.1	79.4	92.6	105.8
167	52.9	52.9	39.7	39.7	52.9	52.9	66.1	66.1	79.4	79.4	92.6
150.6	39.7	39.7	39.7	39.7	52.9	52.9	66.1	66.1	79.4	79.4	92.6
134.2	39.7	39.7	26.5	39.7	52.9	52.9	66.1	52.9	79.4	79.4	92.6
117.8	26.5	39.7	26.5	26.5	52.9	52.9	66.1	52.9	66.1	66.1	79.4
101.4	26.5	39.7	26.5	26.5	52.9	52.9	66.1	52.9	66.1	66.1	79.4
85	26.5	39.7	26.5	26.5	52.9	52.9	66.1	52.9	66.1	66.1	79.4
68.6	26.5	39.7	26.5	26.5	52.9	52.9	66.1	52.9	52.9	66.1	66.1

Counter-jib ballast

	100 LVF / 132 HPL™			180 HPL™ GH		
	14,551 lb	10,362 lb	(lb)	14,551 lb	10,362 lb	(lb)
262 ft	5	2	93,476	6	0	87,303
246 ft	4	3	89,287	5	1	83,114
230 ft	4	3	89,287	5	1	83,114
213 ft	4	3	89,287	5	1	83,114
197 ft	6	0	87,303	4	2	78,925
180 ft	5	1	83,114	3	3	74,737
164 ft	6	2	108,027	7	0	101,854
148 ft	7	0	101,854	5	2	93,476
131 ft	5	2	93,476	6	0	87,303
115 ft	5	1	83,114	4	2	78,925
98 ft	3	3	74,737	4	1	68,564



Load curves



		(ft)	49	66	82	98	105	115	121	131	138	148	154	164	171	180	187	197	203	213	220	230	236	246	253	262	ft
262	14.8 → 55.5	98.1 - 106.8	27.6	22.6	17.2	13.8	13.8	12.7	11.9	10.8	10.2	9.4	8.9	8.2	7.8	7.3	7	6.5	6.3	5.9	5.6	5.3	5.1	4.8	4.7	4.4	USt
	14.8 → 60	105.6 - 114.8	27.6	24.8	19	15.1	13.9	13.8	13	11.9	11.2	10.3	9.8	9.1	8.6	8	7.7	7.1	6.8	6.4	6.1	5.7	5.5	5.2	5	4.7	USt P_+
246	14.8 → 57.1	101.3 - 110	27.6	23.4	17.9	14.3	13.8	13.1	12.3	11.2	10.6	9.7	9.2	8.6	8.2	7.6	7.3	6.8	6.5	6.1	5.9	5.6	5.4	5.1		USt	
	14.8 → 61.9	109.2 - 118.1	27.6	25.8	19.7	15.7	14.5	13.8	13.5	12.3	11.6	10.7	10.2	9.4	9	8.4	8	7.5	7.2	6.8	6.5	6.1	5.9	5.6		USt P_+	
230	14.8 → 64.7	115.3 - 124.9	27.6	27.1	20.9	16.8	15.5	13.9	13.8	13	12.3	11.3	10.8	10	9.6	8.9	8.5	8	7.7	7.3	7	6.6				USt	
	14.8 → 70.1	124.4 - 134.8	27.6	27.6	22.9	18.4	17	15.2	14.2	13.8	13.4	12.3	11.6	10.7	10.2	9.5	9	8.4	8.1	7.5	7.2	6.8				USt P_+	
213	14.8 → 70.8	126.5 - 137	27.6	27.6	23.2	18.7	17.3	15.5	14.5	13.8	13.7	12.6	12	11.2	10.7	10	9.6	9	8.6	8.2						USt	
	14.8 → 76.9	132.4 - 142.5	27.6	27.6	25.5	20.4	18.8	16.7	15.5	13.9	13.8	13.2	12.5	11.5	11	10.2	9.7	9.1	8.7	8.2						USt P_+	
197	14.8 → 74.6	133.3 - 144.5	27.6	27.6	24.7	19.9	18.5	16.6	15.5	14.1	13.8	13.4	12.8	11.9	11.4	10.6	10.2	9.6								USt	
	14.8 → 78.9	137.9 - 149	27.6	27.6	26.3	21.1	19.5	17.4	16.2	14.7	13.8	13.8	13.2	12.3	11.7	10.9	10.5	9.8								USt P_+	
180	14.8 → 76.8	137.4 - 148.9	27.6	27.6	25.6	20.6	19.1	17.2	16.1	14.6	13.8	13.8	13.2	12.3	11.8											USt	
	14.8 → 77.9	143.7 - 156.4	27.6	27.6	26	21.3	19.8	17.9	16.8	15.3	14.5	13.8	13.8	13.1	12.5	11.8										USt P_+	
164	14.8 → 81.6	146.1 - 158.3	27.6	27.6	27.4	22.2	20.6	18.5	17.3	15.7	14.8	13.8	13.8	13.2												USt	
	14.8 → 82.8		27.6	27.6	27.6	22.7	21.1	19	17.8	16.3	15.4	14.2	13.8	13.8												USt P_+	
148	14.8 → 82.5		27.6	27.6	27.6	22.4	20.8	18.7	17.5	15.9	15	13.8														USt	
	14.8 → 82.4		27.6	27.6	27.6	22.6	21	19	17.8	16.3	15.4	14.2														USt P_+	
131	14.8 → 82.7		27.6	27.6	27.6	22.5	20.9	18.8	17.6	16																USt	
	14.8 → 83.1		27.6	27.6	27.6	22.9	21.3	19.3	18.1	16.5																USt P_+	
115	14.8 → 83.6		27.6	27.6	27.6	22.8	21.1	19																		USt	
	14.8 → 83.6		27.6	27.6	27.6	22.8	21.1	19																		USt P_+	
98	14.8 → 81.2		27.6	27.6	27.2	22																				USt	
	14.8 → 81.2		27.6	27.6	27.2	22																				USt P_+	

$$U_{L1} = U_L - 1.58 \text{ USt max.}$$



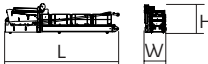
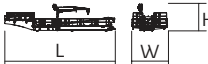
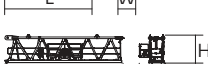
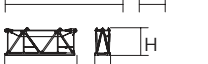
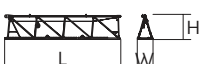
 (ft)			49	66	82	98	105	115	121	131	138	148	154	164	171	180	187	197	203	213	220	230	236	246	253	262	ft	
	 27.6 USt	 13.8 USt																										
262	13.1 → 56.5	101.2 - 103.1	27.6	23.2	17.8	14.3	13.5	12.1	11.3	10.2	9.6	8.8	8.3	7.6	7.2	6.7	6.4	5.9	5.7	5.3	5	4.7	4.5	4.2	4.1	3.8	USt	
	13.1 → 61	108.7 - 110.6	27.6	25.4	19.5	15.6	14.4	13.3	12.4	11.3	10.6	9.7	9.2	8.4	8	7.4	7.1	6.5	6.2	5.8	5.5	5.1	4.9	4.5	4.3	4.1	USt P₊	
246	13.1 → 58.2	104.6 - 106.5	27.6	24	18.5	14.8	13.8	12.6	11.8	10.7	10	9.2	8.7	8	7.6	7.1	6.7	6.3	6	5.6	5.4	5	4.8	4.5	USt			
	13.1 → 62.9	112.4 - 114.1	27.6	26.3	20.2	16.2	15	13.7	13	11.8	11.1	10.1	9.6	8.9	8.4	7.8	7.4	6.9	6.6	6.2	5.9	5.6	5.3	5	USt P₊			
230	13.1 → 65.6	118.7 - 120.9	27.6	27.5	21.3	17.2	16	14.3	13.7	12.5	11.8	10.8	10.3	9.5	9	8.4	8	7.5	7.2	6.8	6.5	6.1	USt					
	13.1 → 71.4	128.5 - 131.2	27.6	27.6	23.5	19	17.6	15.8	14.8	13.8	12.9	11.8	11.2	10.3	9.7	9	8.6	8	7.6	7.1	6.8	6.4	USt P₊					
213	13.1 → 71.9	130.7 - 133.2	27.6	27.6	23.7	19.2	17.9	16.1	15	13.8	13.2	12.2	11.6	10.7	10.2	9.5	9.1	8.6	8.2	7.7	USt							
	13.1 → 78.4	136.9 - 139	27.6	27.6	26.2	21	19.4	17.3	16.1	14.6	13.8	12.8	12.1	11.1	10.6	9.8	9.3	8.7	8.3	7.8	USt P₊							
197	13.1 → 76.5	139.2 - 141.8	27.6	27.6	25.5	20.7	19.2	17.3	16.2	14.8	13.9	13.1	12.5	11.6	11	10.3	9.9	9.3	USt									
	13.1 → 80.4	142.9 - 145.4	27.6	27.6	26.9	21.7	20.1	18	16.8	15.3	14.4	13.5	12.8	11.9	11.3	10.5	10.1	9.4	USt P₊									
180	13.1 → 78.8	143.3 - 146.1	27.6	27.6	26.3	21.4	19.9	17.9	16.8	15.3	14.4	13.6	12.9	12	11.5	10.7	USt											
	13.1 → 79.4	149.4 - 152.5	27.6	27.6	26.7	21.9	20.4	18.5	17.4	15.9	15.1	14	13.6	12.7	12.1	11.4	USt P₊											
164	13.1 → 83.6	152.3 - 155.2	27.6	27.6	27.6	22.9	21.3	19.2	18	16.4	15.5	14.3	13.8	12.9	USt													
	13.1 → 84.5	156.8 - 164	27.6	27.6	27.6	23.3	21.7	19.6	18.5	16.9	16	14.8	14.1	13.8	USt P₊													
148	13.1 → 84		27.6	27.6	27.6	23	21.4	19.3	18.1	16.5	15.6	14.4	USt															
	13.1 → 84.1		27.6	27.6	27.6	23.2	21.6	19.6	18.4	16.9	16	14.8	USt P₊															
131	13.1 → 84.2		27.6	27.6	27.6	23.1	21.5	19.4	18.2	16.6	USt																	
	13.1 → 84.8		27.6	27.6	27.6	23.5	21.9	19.9	18.7	17.2	USt P₊																	
115	13.1 → 85.1		27.6	27.6	27.6	23.4	21.7	19.6	USt																			
	13.1 → 85.3		27.6	27.6	27.6	23.4	21.8	19.6	USt P₊																			
98	13.1 → 82.8		27.6	27.6	27.6	22.6	USt																					
	13.1 → 82.8		27.6	27.6	27.6	22.7	USt P₊																					

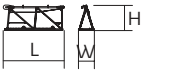
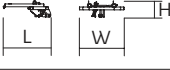
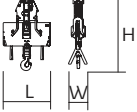
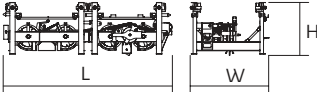
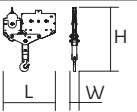
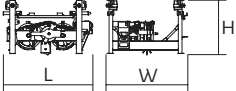
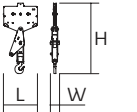
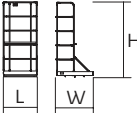
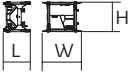
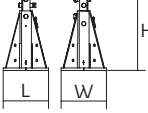
 =  - 0.71 USt max.

$$U_{L1} = U_L - 0.71 \text{ USt max.}$$

Dimensions and weight

Slewing crane part:  262 ft -  -  100 LVF

Slewing crane part					L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Counter-jib					39.4	7.2	8.2	29,690
					39.4	7.2	8.2	39,432
					39.1	7.2	9.2	29,573
					15	5.3	6.6	9,590
		100 LVF			53.3	17	12.9	32,747
		132 HPL™			53.3	18.6	12.9	32,902
		180 HPL™ GH			53.3	21.9	12.9	34,458
		100 LVF			66.5	17	12.9	42,044
		132 HPL™			66.5	18.6	12.9	42,199
		180 HPL™ GH			66.5	21.9	12.9	43,343
Hoisting winch (+ rope)		100 LVF			53.3	17	12.9	41,870
		132 HPL™			53.3	18.6	12.9	44,289
		100 LVF			66.5	17	12.9	51,167
		132 HPL™			66.5	18.6	12.9	53,586
Cab		100 LVF			11.8	5.2	5.7	9,123
		132 HPL™			12.4	6.1	6.2	11,387
		180 HPL™ GH			15.8	6.3	6.5	19,282
Towerhead		Ultra View			11	7.5	8.2	6,614
		8 ft			8.8	8.2	9.9	27,866
					21.9	8.2	9.9	34,480
Jib section		①			25.3	5.1	8.1	19,103
		②			34	7.4	8.1	18,122
		③			20.9	4.5	8	7,154
		④			34.1	4.5	7.8	9,466
		⑤			34.1	4.5	7.3	7,115
		⑦			33.6	4.5	7.2	4,991
		⑪			33.1	4.5	5.1	1,825

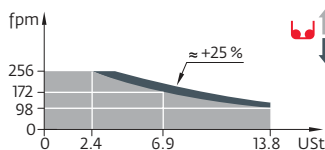
			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Jib section		⑥	17.6	4.5	7.3	3,007
		⑧	17.4	4.5	7	1,719
		⑨	17.1	4.5	6.1	1,464
		⑩	17	4.5	5.2	1,246
			5.5	5.2	1.9	575
Trolley		 27.6 USt	7.3	5.7	4.7	1,676
Pulley block		 27.6 USt	5.1	1.9	8	1,874
Trolley		 27.6 USt	12.5	5.6	4.1	2,469
Pulley block		 27.6 USt	6.3	1.1	7.7	2,028
Trolley		 13.8 USt	6.6	5.6	4.1	1,323
Pulley block		 13.8 USt	4.1	1.1	8.5	1,345
Trolley inspection platform			3.1	3.4	7	125
Crane tower						
T 851		 8 ft	36.7	15.9	19	34,723
K 84/K 84-2		 8 ft	7.3	10.6	8.2	6,724
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		 8 ft	33.6 33.9 33.9 17.2 17.5 17.5 17.2 17.2 17.2 17.2 11.7 12	8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.4 8.3 8.4 8.4 8.3	8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.2 8.3 8.3 8.2	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		P 802B P 854A	2.5 3	2.5 3	4.2 4.9	1,025 2,072
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	
	100 LVF 63 Optima	fpm	98	126	172	226	256	49	64	89	116	128	100	75	2,382 ft
		USt	13.8	10.4	6.9	3.4	2.4	27.6	20.7	13.8	6.9	6			
	132 HPL™ 63	fpm	133	172	243	363	502	67	87	125	185	251	132	98	2,815 ft
		USt	13.8	10.4	6.9	3.4	1.1	27.6	20.7	13.8	6.9	2.9			
	180 HPL™ 63 GH	fpm	179	220	289	438	640	90	112	149	238	320	180	132	3,937 ft
		USt	13.8	10.4	6.9	3.4	0.9	27.6	20.7	13.8	6.9	3.3			
	10 DVF 10 Optima	fpm	0 → 217 (27.6 USt) 0 → 262 (22 USt) 0 → 328 (13.8 USt) 0 → 361 (6.9 USt)										10	7.4	
	RVF 174 Optima +	rpm	0 → 0.7										4 x 10	4 x 7.5	
															

	kVA	
480 V (+6% -10%) 60 Hz	100 LVF : 126 → 86 kVA 132 HPL™ : 152 → 99 kVA 180 HPL™ GH : 190 → 118 kVA	

100 LVF 63 Optima



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

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