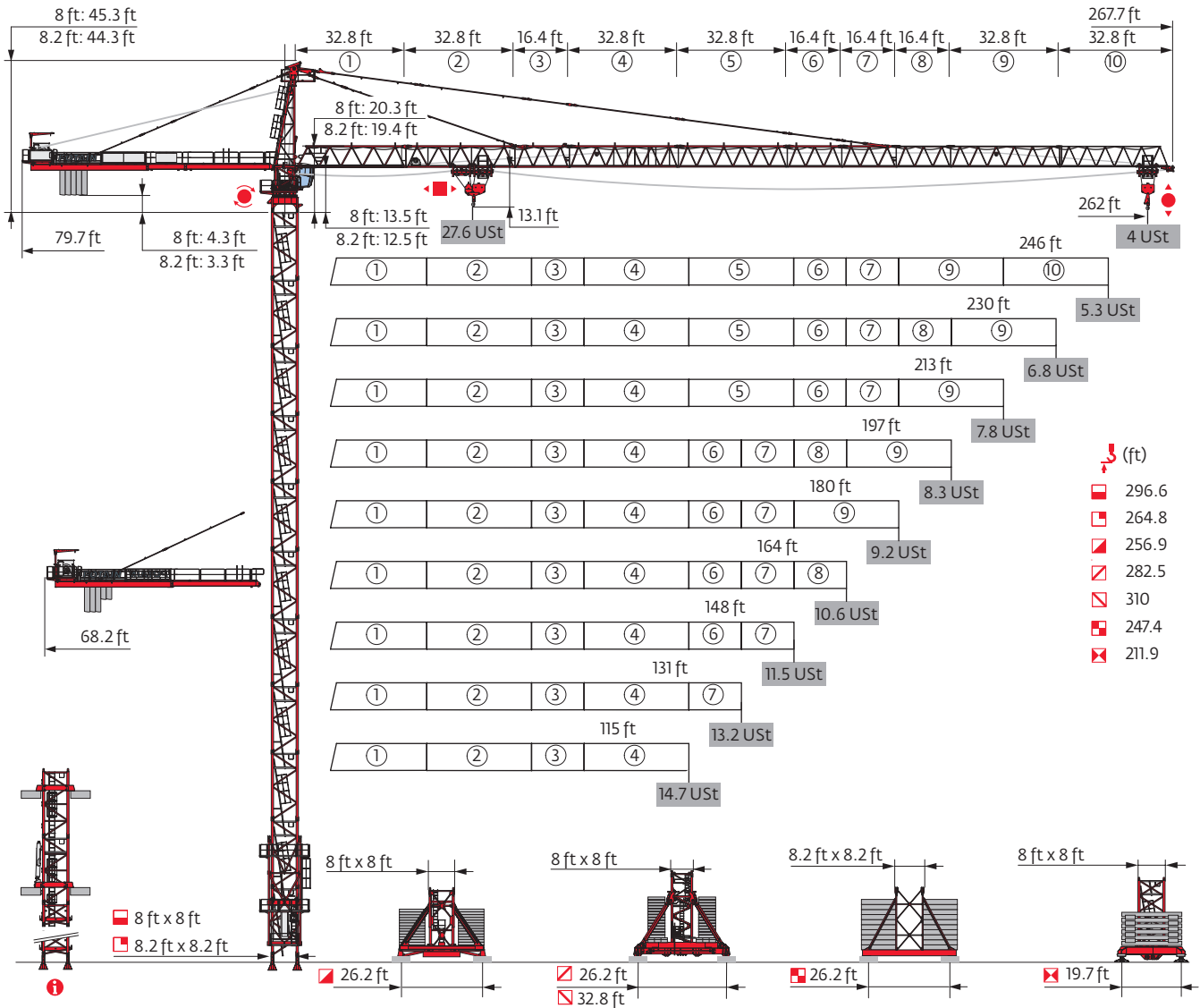


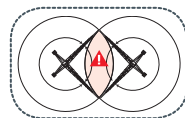
MD 509 M25



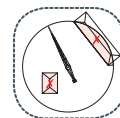
Potain Plus Power Control



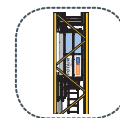
Top Tracing 3



Top Site



CablIFT



TCL



Mast - Reactions

8 ft - P 802B										
(ft)	115	131	148	164	180	197	213	230	246	262
↓ (ft)	247.4	247.4	247.4	247.4	247.4	241.8	241.8	241.8	236.2	219.8
↓/P _r (ft)	247.4	247.4	247.4	247.4	247.4	241.8	241.8	241.8	236.2	219.8
10.9 ft	0	0	0	0	0	1	1	1	2	2
16.4 ft	15	15	15	15	15	14	14	14	13	12
F2 (Ust)	● 256	● 261	● 264	● 257	● 259	● 254	● 256	● 256	● 240	● 227
	■ 394	■ 402	■ 406	■ 400	■ 405	■ 396	■ 393	■ 399	■ 390	■ 338
F3 (Ust)	● 180	● 181	● 183	● 173	● 177	● 171	● 171	● 169	● 154	● 141
	■ 332	■ 336	■ 338	■ 330	■ 338	■ 327	■ 321	■ 326	■ 317	■ 265

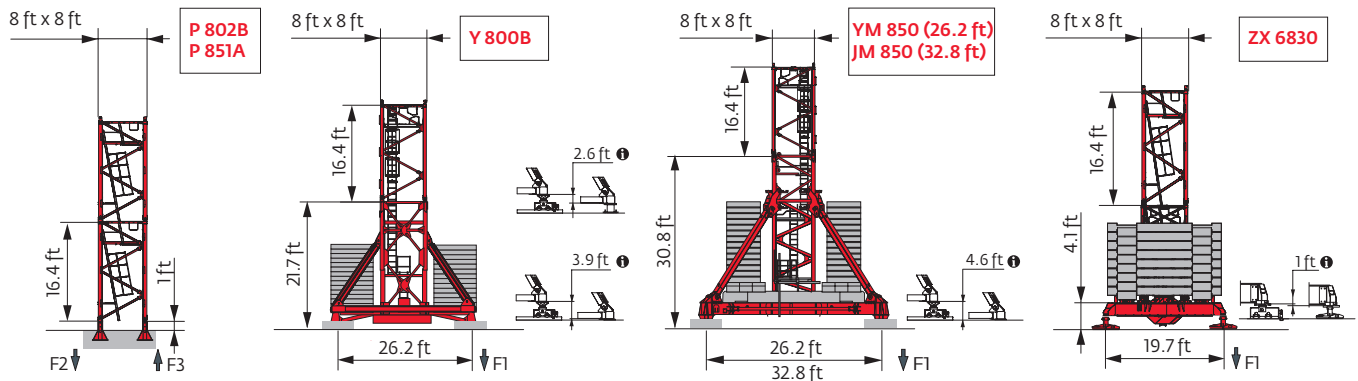
8 ft - Y 800B										
(ft)	115	131	148	164	180	197	213	230	246	262
↓ (ft)	256.9	256.9	256.9	256.9	256.9	251.3	251.3	251.3	251.3	234.9
↓/P _r (ft)	256.9	256.9	256.9	256.9	256.9	251.3	251.3	251.3	251.3	234.9
10.9 ft	2	2	2	2	2	0	0	0	0	0
16.4 ft	13	13	13	13	13	14	14	14	14	13
F1 (Ust)	● 162	● 161	● 163	● 162	● 161	● 155	● 154	● 158	● 155	● 141
	■ 211	■ 214	■ 216	■ 212	■ 215	■ 204	■ 201	■ 205	■ 207	■ 178

8 ft - ZX 6830										
(ft)	115	131	148	164	180	197	213	230	246	262
↓ (ft)	211.9	206.7	206.7	211.9	206.7	211.9	211.9	211.9	211.9	211.9
↓/P _r (ft)	211.9	206.7	206.7	211.9	206.7	206.7	211.9	211.9	211.9	211.9
10.9 ft	1	2	2	1	2	1	1	1	1	1
16.4 ft	12	11	11	12	11	12	12	12	12	12
F1 (Ust)	● 161	● 160	● 161	● 161	● 159	● 163	● 162	● 163	● 160	● 158
	■ 185	■ 180	■ 182	■ 185	■ 182	■ 192	■ 188	■ 192	■ 196	■ 192

8 ft - P 851A										
(ft)	115	131	148	164	180	197	213	230	246	262
↓ (ft)	296.6	296.6	296.6	296.6	296.6	296.6	296.6	291	291	291
↓/P _r (ft)	296.6	296.6	296.6	296.6	296.6	296.6	296.6	291	291	291
10.9 ft	0	0	0	0	0	0	0	1	1	1
16.4 ft	18	18	18	18	18	18	18	17	17	17
F2 (Ust)	● 307	● 312	● 316	● 308	● 310	● 309	● 312	● 309	● 304	● 311
	■ 575	■ 582	■ 589	■ 580	■ 589	■ 592	■ 590	■ 580	■ 585	■ 584
F3 (Ust)	● 220	● 220	● 222	● 213	● 217	● 214	● 214	● 211	● 206	● 211
	■ 501	■ 505	■ 509	■ 499	■ 509	■ 511	■ 505	■ 496	■ 501	■ 497

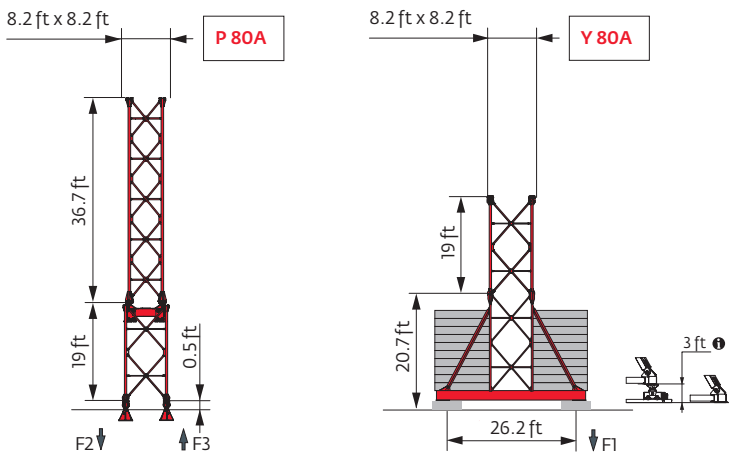
8 ft - YM 850										
(ft)	115	131	148	164	180	197	213	230	246	262
↓ (ft)	277.2	277.2	282.5	282.5	282.5	282.5	282.5	282.5	282.5	282.5
↓/P _r (ft)	277.2	277.2	282.5	282.5	282.5	282.5	282.5	282.5	282.5	282.5
10.9 ft	0	0	2	2	2	2	2	2	2	2
16.4 ft	15	15	14	14	14	14	14	14	14	14
F1 (Ust)	● 180	● 180	● 188	● 187	● 186	● 187	● 188	● 189	● 187	● 191
	■ 246	■ 249	■ 265	■ 261	■ 265	■ 267	■ 264	■ 267	■ 270	■ 269

8 ft - JM 850										
(ft)	115	131	148	164	180	197	213	230	246	262
↓ (ft)	310	310	310	310	310	310	310	310	310	310
↓/P _r (ft)	310	310	310	310	310	310	310	310	310	310
10.9 ft	0	0	0	0	0	0	0	0	0	0
16.4 ft	17	17	17	17	17	17	17	17	17	17
F1 (Ust)	● 171	● 170	● 172	● 171	● 171	● 171	● 173	● 174	● 172	● 176
	■ 245	■ 248	■ 250	■ 246	■ 250	■ 251	■ 249	■ 252	■ 254	■ 254



8.2 ft - P 80A										
WIND (ft)	115	131	148	164	180	197	213	230	246	262
H (ft)	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8
H/P (ft)	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8
36.7 ft	1	1	1	1	1	1	1	1	1	1
	19 ft	12	12	12	12	12	12	12	12	12
F2 (USt)	● 234	238	242	235	237	235	238	238	232	237
	■ 330	337	341	336	341	344	342	347	352	348
F3 (USt)	● 154	154	156	147	150	148	147	145	140	142
	■ 264	267	269	261	268	270	265	269	273	267

8.2 ft - Y 80A										
WIND (ft)	115	131	148	164	180	197	213	230	246	262
H (ft)	247.4	247.4	247.4	247.4	247.4	247.4	247.4	247.4	247.4	247.4
H/P (ft)	247.4	247.4	247.4	247.4	247.4	247.4	247.4	247.4	247.4	247.4
36.7 ft	1	1	1	1	1	1	1	1	1	1
	19 ft	10	10	10	10	10	10	10	10	10
F1 (USt)	● 126	129	131	126	129	129	128	128	126	128
	■ 144	147	148	144	148	149	147	150	152	149



i Motorized accesses of CabLIFT and TCL types: 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.

Anchorage

i

Base ballast

Ust) / 8 ft - Y 800B -

AVL (ft)	115	131	148	164	180	197	213	230	246	262
256.9	198.4	185.2	185.2	185.2	185.2					
251.3	185.2	172	172	158.7	172	172	158.7	172	172	
234.9	145.5	145.5	132.3	132.3	132.3	132.3	132.3	132.3	132.3	132.3
218.5	105.8	105.8	105.8	92.6	105.8	105.8	92.6	92.6	105.8	92.6
202.1	79.4	79.4	79.4	66.1	79.4	79.4	66.1	66.1	66.1	66.1
185.7	66.1	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
169.3	52.9	39.7	39.7	39.7	52.9	52.9	52.9	52.9	52.9	52.9
152.9	52.9	39.7	39.7	39.7	52.9	52.9	52.9	52.9	52.9	52.9
136.5	39.7	39.7	39.7	26.5	52.9	52.9	52.9	52.9	52.9	52.9
120.1	39.7	39.7	39.7	26.5	52.9	52.9	52.9	52.9	52.9	52.9
103.7	39.7	39.7	39.7	26.5	52.9	52.9	52.9	52.9	52.9	52.9
87.3	39.7	39.7	39.7	26.5	52.9	52.9	52.9	52.9	52.9	52.9
70.9	39.7	39.7	39.7	26.5	52.9	52.9	52.9	52.9	52.9	52.9

Ust) / 8 ft - ZX 6830 -

AVL (ft)	115	131	148	164	180	197	213	230	246	262
211.9	188.5			177.5		188.5	177.5	177.5	188.5	177.5
206.7	177.5	177.5	177.5	155.4	177.5	166.5	166.5	166.5	166.5	166.5
190.3	144.4	133.4	133.4	122.4	133.4	133.4	133.4	133.4	133.4	144.4
173.9	133.4	133.4	122.4	122.4	122.4	122.4	122.4	122.4	122.4	122.4
157.5	122.4	111.3	111.3	111.3	122.4	122.4	122.4	122.4	122.4	122.4
141.1	111.3	111.3	111.3	100.3	111.3	111.3	122.4	111.3	111.3	111.3
124.7	111.3	111.3	111.3	100.3	111.3	111.3	111.3	111.3	111.3	111.3
108.3	111.3	111.3	111.3	100.3	111.3	111.3	111.3	111.3	111.3	111.3
91.9	111.3	111.3	111.3	100.3	111.3	111.3	111.3	111.3	111.3	111.3
75.5	111.3	111.3	111.3	100.3	111.3	111.3	111.3	111.3	111.3	111.3

Ust) / 8 ft - YM 850 -

AVL (ft)	115	131	148	164	180	197	213	230	246	262
282.5			238.1	238.1	238.1	238.1	238.1	238.1	238.1	238.1
277.2	238.1	224.9	224.9	211.6	224.9	224.9	211.6	224.9	224.9	211.6
260.8	198.4	185.2	185.2	185.2	185.2	185.2	185.2	185.2	185.2	172
244.4	158.7	158.7	145.5	145.5	158.7	145.5	145.5	145.5	145.5	145.5
228	119.1	119.1	119.1	105.8	119.1	119.1	105.8	105.8	119.1	105.8
211.6	92.6	92.6	92.6	79.4	92.6	79.4	79.4	79.4	79.4	66.1
195.2	66.1	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
178.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
162.4	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
146	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
129.6	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
113.2	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
96.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
80.4	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9

Ust) / 8 ft - JM 850 -

AVL (ft)	115	131	148	164	180	197	213	230	246	262
310	211.6	198.4	198.4	198.4	198.4	198.4	198.4	198.4	198.4	198.4
293.6	172	172	172	158.7	172	172	158.7	158.7	172	158.7
277.2	145.5	145.5	145.5	132.3	145.5	145.5	132.3	132.3	132.3	132.3
260.8	119.1	119.1	119.1	105.8	119.1	105.8	105.8	105.8	105.8	105.8
244.4	92.6	92.6	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
228	66.1	66.1	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
211.6	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
195.2	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
178.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
162.4	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
146	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
129.6	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
113.2	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
96.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
80.4	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9

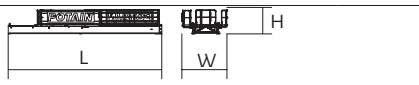
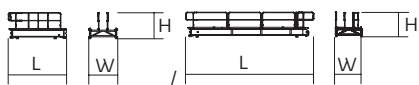

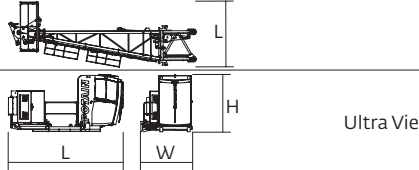
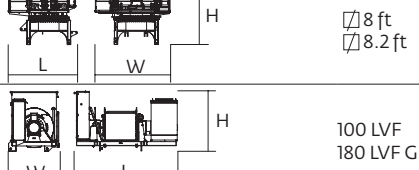
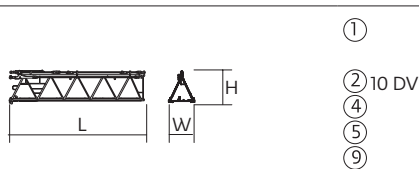
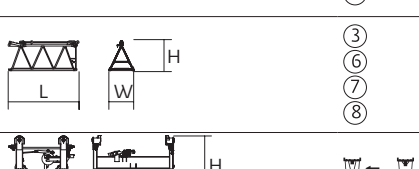
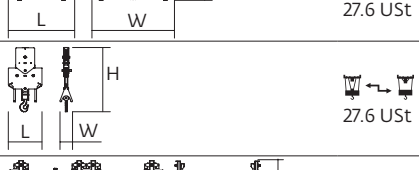
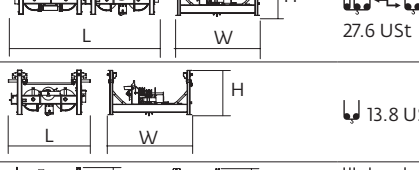
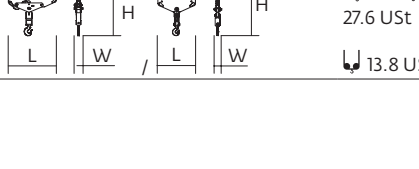

Ust) / 8.2 ft - Y 80A -

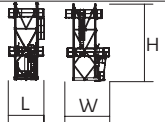
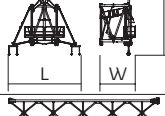
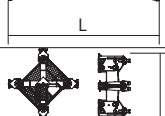

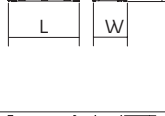
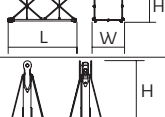
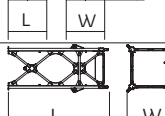
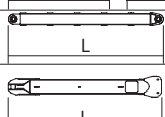

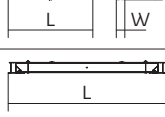
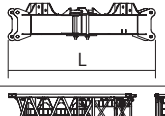
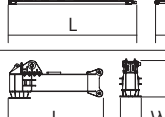
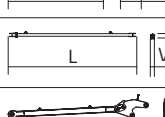
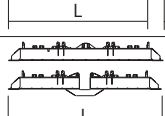

AVL (ft)	115	131	148	164	180	197	213	230	246	262
247.4	105.8	105.8	105.8	92.6	105.8	105.8	92.6	92.6	92.6	92.6
228.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
209.3	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
190.6	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
171.6	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
152.6	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
133.5	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
114.5	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
95.8	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
76.8	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4

Dimensions and weight

Slewing crane part:  262 ft -  -  -  100 LVF



Slewing crane part		L (ft)	W (ft)	H (ft)	lb (+/- 5%)	
Counter-jib		35.4	10.2	5.6	8.300	
		12.1	6.2	5.6	2.172	
		26.9	6.2	5.6	4.575	
Cathead		13.8	7.3	38.7	16.524	
Cab	 Ultra View	16.5	7.3	8.2	3.704	
Towerhead		12.5	14	9.7	20.349	
		12.5	14	8.7	18.805	
Hoisting winch (+ rope)		10.4	5.2	5.7	9.138	
		14	6.3	6.2	20.338	
Jib section		①	33.7	6.6	7.8	7.066
		② 10 DVF	33.7	6.2	7.4	8.223
		④	33.6	6.2	7.3	4.729
		⑤	33.6	6.2	7.3	4.001
		⑨	33.4	6.2	6.5	2.800
		⑩	33.2	6.2	6.4	1.764
Jib section		③	17.6	6.2	7.4	3.197
		⑥	17.2	6.2	7.3	2.183
		⑦	17.1	6.2	7.3	2.480
		⑧	17.1	6.2	6.6	1.609
Trolley	 27.6 USt	5.9	7.3	4.7	1.587	
Pulley block	 27.6 USt	3.9	1.4	7.4	1.973	
Trolley	27.6 USt	13.5	7.2	3.8	2.635	
Trolley	13.8 USt	7	7.2	3.8	1.422	
Pulley block		27.6 USt	6	1.1	7.7	1.995
		13.8 USt	3.9	0.7	6.4	992

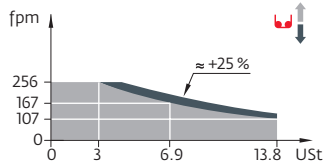
Crane tower		L (ft)	W (ft)	H (ft)	lb (+/- 5%)	
Telescopic cage		8 ft	15.2	19	33.6	29.200
Telescopic cage		8.2 ft	24.3	12	19.1	13.669
Slider		8.2 ft	36.4	6.9	6.9	15.653
Slider base		8.2 ft	7.7	5.2	7.7	13.140
K 850/KR 849B KM 850-10B KRMT 849A K 849A KR 849A K 850/KR 849A KMT 850.10A KR 849C KRMT 849C		8 ft	33.6 33.9 17.2 17.2 17.2 17.2 17.2 17.5 11.7 11.7	8.3 8.1 8.4 8.3 8.3 8.3 8.3 8.3 8.4 8.4	8.2 8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.3 8.3	20.878 22.201 9.017 7.496 9.458 12.291 12.015 7.044 7.066
R 87 R 86 R 85		8.2 ft	21 21 21	9.5 9.5 9.5	9.5 9.5 9.5	9.392 8.422 8.157
Fixing angles		P 802B P 851A P 80A	2.5 3 2.6	2.5 3 2.6	4.2 4.9 4	1.025 1.841 4.343
Basic mast unit		Y 800B Y 80A	19.8 19.7	9.6 9.8	9.6 9.8	19.004 16.314
Struts		Y 800B Y 80A	18.1 18	1.6 1.4	1.5 1.2	2.447 1.764
1/2 Side member		Y 800B Y 80A	18.6 18.4	4.1 3.8	2.4 2	3.351 2.205
Side member		Y 800B Y 80A	39.4 38.9	4.1 3.8	2.4 2	6.724 4.630
Ballast support		Y 800B Y 80A	12.3 15.3	1.2 1	3 2.2	2.392 595
Chassis beam		Y 800B Y 80A	28.5 28.2	2.7 2.3	2.4 3.8	4.938 4.409
Central cross (transport position)		YM 850 JM 850	17.1	5.6	4.9	14.771
Basic mast unit		YM 850 JM 850	28.7	8.2	8.2	32.187
Chassis girder		YM 850 JM 850	12.5 17.1	3 3	5.1 5.1	6.173 7.055
Chassis ties		YM 850 JM 850	23.6	0.8	1.1	551
Struts		YM 850 JM 850	24.6 26.9	2.5 2.5	4.3 4.3	4.630 5.071
Cross girder		ZX 6830	29.9 29.9	3.7 2.5	3.6 4.9	11.607 12.004

Mechanisms

480 V - 60 Hz											hp	kW			
	100 LVF 63 Optima	fpm	107	133	167	256	54	67	85	128	100	75	2.382 ft		
		USt	13.8	10.4	6.9	3	27.6	20.7	13.8	6.9					
	180 LVF 63 GH Optima	fpm	177	218	289	448	630	89	110	148	236	315	180	132	3.937 ft
		USt	13.8	10.4	6.9	3.4	1	27.6	20.7	13.8	6.9	3.4			
	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 173 Optima+	rpm	0 → 1				3 x 10	3 x 7.5							

480 V (+6% -10%) 60 Hz	100 LVF : 117 → 77 kVA	
	180 LVF GH : 181 → 109 kVA	

100 LVF 63 Optima



These mast combinations meet the EN 14439 and ASME B30.3-2012 specifications for "out of service" wind conditions, provided the illustrated wind speed matches required design wind 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-A. 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 50-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.

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