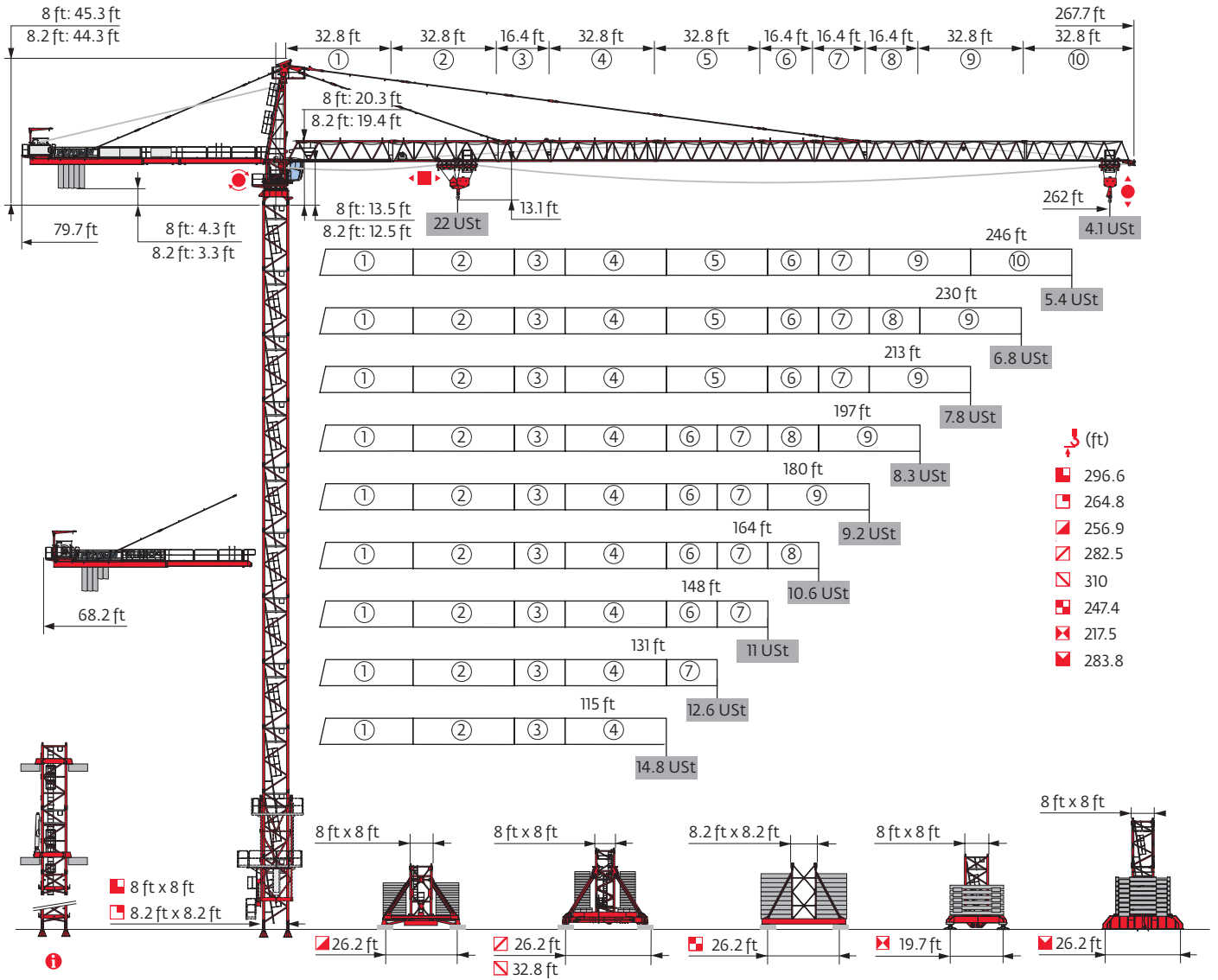


MD 509 M20



Potain Plus Power Control Top Site Top Tracing 3

Mast - Reactions

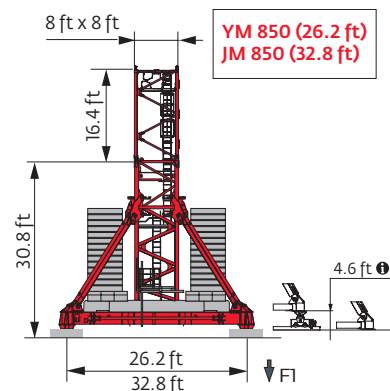
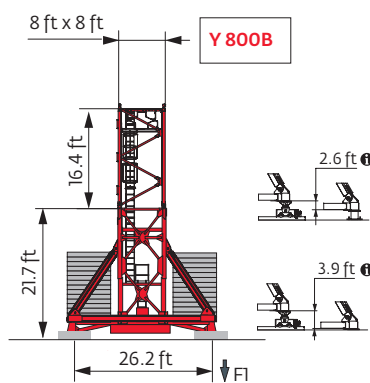
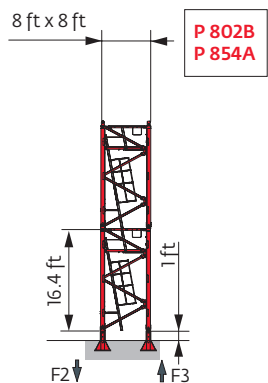
8 ft - P 802B										
Height (ft)	115	131	148	164	180	197	213	230	246	262
Height (ft)	247.4	247.4	247.4	247.4	247.4	241.8	241.8	241.8	236.2	219.8
Height/P _r (ft)	247.4	247.4	247.4	247.4	247.4	241.8	241.8	241.8	236.2	219.8
10.9 ft	0	0	0	0	0	1	1	1	2	2
16.4 ft	15	15	15	15	15	14	14	14	13	12
F2 (Ust)	● 249	256	256	252	252	251	250	252	236	224
	■ 394	402	405	400	405	396	393	399	390	338
F3 (Ust)	● 176	179	177	171	173	170	167	167	153	141
	■ 333	336	338	330	338	327	321	326	318	265

8 ft - P 854A										
Height (ft)	115	131	148	164	180	197	213	230	246	262
Height (ft)	296.6	296.6	296.6	296.6	296.6	296.6	296.6	296.6	291	291
Height/P _r (ft)	296.6	296.6	296.6	296.6	296.6	296.6	296.6	296.6	291	291
10.9 ft	0	0	0	0	0	0	0	0	1	1
16.4 ft	18	18	18	18	18	18	18	18	17	17
F2 (Ust)	● 299	306	306	302	303	304	304	308	298	306
	■ 574	582	589	580	589	593	589	596	585	584
F3 (Ust)	● 215	217	216	209	212	212	209	212	204	209
	■ 502	505	509	499	509	511	506	511	501	497

8 ft - Y 800B										
Height (ft)	115	131	148	164	180	197	213	230	246	262
Height (ft)	256.9	251.3	251.3	256.9	251.3	251.3	251.3	251.3	246.1	234.9
Height/P _r (ft)	256.9	251.3	251.3	256.9	251.3	251.3	251.3	251.3	246.1	234.9
10.9 ft	2	0	0	2	0	0	0	0	1	0
16.4 ft	13	14	14	13	14	14	14	14	13	13
F1 (Ust)	● 159	153	153	159	152	153	151	155	148	139
	■ 211	201	203	212	203	204	201	205	200	178

8 ft - YM 850										
Height (ft)	115	131	148	164	180	197	213	230	246	262
Height (ft)	277.2	277.2	277.2	282.5	282.5	282.5	282.5	282.5	282.5	282.5
Height/P _r (ft)	277.2	277.2	277.2	282.5	282.5	282.5	282.5	282.5	282.5	282.5
10.9 ft	0	0	0	2	2	2	2	2	2	2
16.4 ft	15	15	15	14	14	14	14	14	14	14
F1 (Ust)	● 177	177	178	184	183	184	185	186	185	189
	■ 246	249	251	261	265	267	264	267	270	269

8 ft - JM 850										
Height (ft)	115	131	148	164	180	197	213	230	246	262
Height (ft)	310	310	310	310	310	310	310	310	310	310
Height/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)	● 167	168	168	168	167	169	170	172	170	174
	■ 245	249	250	247	250	251	249	252	255	254



8 ft - ZX 6830

Height (ft)	115	131	148	164	180	197	213	230	246	262
Height (ft)	217.5	211.9	211.9	217.5	211.9	211.9	217.5	211.9	211.9	211.9
Height/P _z (ft)	217.5	211.9	211.9	217.5	211.9	211.9	217.5	211.9	211.9	211.9
10.9 ft	0	1	1	0	1	1	0	1	1	1
16.4 ft	13	12	12	13	12	12	13	12	12	12
F1 (Ust)	● 161	161	161	162	160	161	161	160	158	155
	■ 194	189	191	194	190	192	197	192	196	192

8 ft - ZY 854

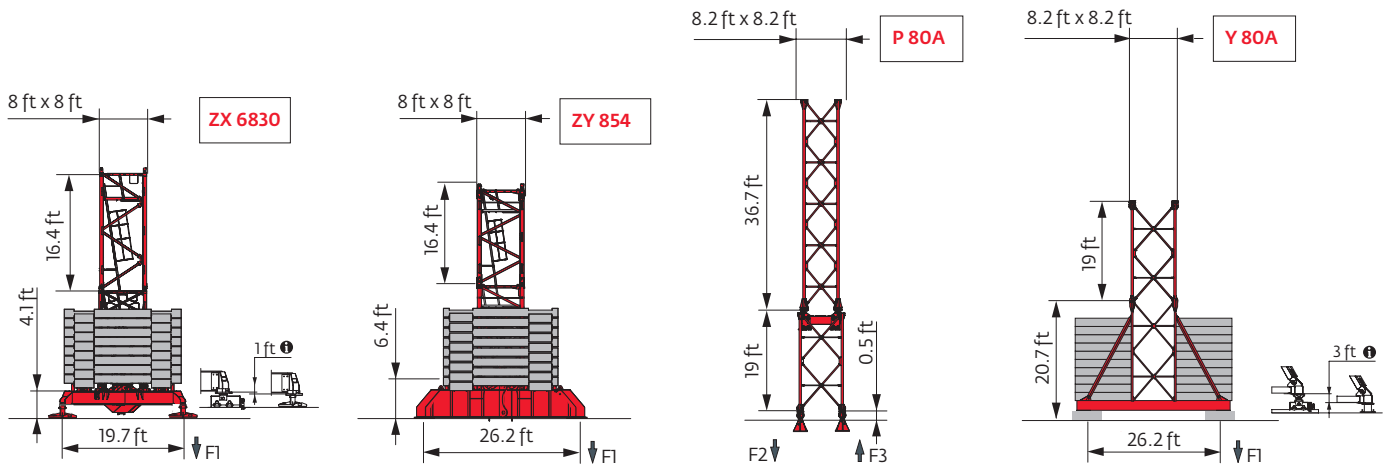
Height (ft)	115	131	148	164	180	197	213	230	246	262
Height (ft)	278.5	283.8	283.8	283.8	278.5	278.5	283.8	283.8	278.5	278.5
Height/P _z (ft)	278.5	283.8	283.8	283.8	278.5	278.5	283.8	283.8	278.5	278.5
10.9 ft	1	0	0	0	1	1	0	0	1	1
16.4 ft	16	17	17	17	16	16	17	17	16	16
F1 (Ust)	● 187	194	195	195	192	193	197	198	193	197
	■ 264	278	281	278	272	275	283	288	282	282

8.2 ft - P 80A

Height (ft)	115	131	148	164	180	197	213	230	246	262
Height (ft)	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8
Height/P _z (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	12
F2 (Ust)	● 227	234	233	230	230	232	231	233	228	233
	■ 331	338	341	336	341	344	342	347	352	348
F3 (Ust)	● 149	152	150	144	147	147	143	144	139	141
	■ 264	267	269	261	269	270	265	269	273	267

8.2 ft - Y 80A

Height (ft)	115	131	148	164	180	197	213	230	246	262
Height (ft)	247.4	247.4	247.4	247.4	247.4	247.4	247.4	247.4	247.4	247.4
Height/P _z (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	10
F1 (Ust)	● 123	127	127	124	126	127	125	126	123	126
	■ 144	147	148	144	148	149	147	150	152	149



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 of Cab-IN and TCL types: Adapted mast compositions, base ballast and reactions.

Anchorage

i

Base ballast

(Ust) / 8 ft - Y 800B -

ft)	115	131	148	164	180	197	213	230	246	262
256.9	198.4			185.2						
251.3	185.2	172	172	158.7	172	172	158.7	172		
246.1	172	158.7	158.7	158.7	158.7	158.7	158.7	158.7	158.7	
234.9	145.5	145.5	145.5	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	39.7	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	39.7	52.9	52.9	52.9	52.9	52.9	52.9
120.1	39.7	39.7	39.7	39.7	52.9	52.9	52.9	52.9	52.9	52.9
103.7	39.7	39.7	39.7	39.7	52.9	52.9	52.9	52.9	52.9	52.9

(Ust) / 8 ft - YM 850 -

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
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	158.7	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 -

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

(Ust) / 8 ft - ZX 6830 -

ft)	115	131	148	164	180	197	213	230	246	262
217.5	199.5			188.5			188.5			
211.9	188.5	188.5	188.5	177.5	188.5	188.5	177.5	177.5	188.5	177.5
195.5	144.4	144.4	144.4	133.4	144.4	144.4	144.4	144.4	144.4	155.4
179.1	133.4	133.4	122.4	122.4	122.4	122.4	122.4	122.4	122.4	133.4
162.7	122.4	122.4	122.4	111.3	122.4	122.4	122.4	122.4	122.4	122.4
146.3	111.3	111.3	111.3	100.3	122.4	122.4	122.4	122.4	122.4	122.4
129.9	111.3	111.3	100.3	100.3	111.3	111.3	111.3	111.3	111.3	111.3
113.5	111.3	111.3	100.3	100.3	111.3	111.3	111.3	111.3	111.3	111.3
97.1	111.3	111.3	100.3	100.3	111.3	111.3	111.3	111.3	111.3	111.3
80.7	111.3	111.3	100.3	100.3	111.3	111.3	111.3	111.3	111.3	111.3

(Ust) / 8 ft - ZY 854 -

ft)	115	131	148	164	180	197	213	230	246	262
283.8		238.1	238.1	238.1			238.1	238.1		
278.5	238.1	238.1	238.1	224.9	238.1	238.1	224.9	238.1	238.1	238.1
262.1	198.4	198.4	198.4	185.2	198.4	198.4	185.2	185.2	198.4	185.2
245.7	172	158.7	158.7	145.5	158.7	158.7	145.5	158.7	158.7	145.5
229.3	132.3	132.3	132.3	119.1	132.3	132.3	119.1	119.1	119.1	119.1
212.9	105.8	92.6	92.6	79.4	92.6	92.6	79.4	79.4	92.6	79.4
196.5	79.4	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
180.1	66.1	66.1	66.1	52.9	66.1	66.1	66.1	66.1	66.1	66.1
163.7	52.9	52.9	52.9	52.9	66.1	66.1	66.1	66.1	66.1	66.1
147.3	52.9	52.9	39.7	39.7	66.1	66.1	66.1	66.1	66.1	66.1
130.9	52.9	52.9	39.7	39.7	66.1	66.1	66.1	66.1	66.1	66.1
114.5	52.9	52.9	39.7	39.7	52.9	52.9	66.1	52.9	52.9	52.9
98.1	52.9	52.9	39.7	39.7	52.9	52.9	66.1	52.9	52.9	52.9

(Ust) / 8.2 ft - Y 80A -

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

Load curves



		▽ (ft)																ft						
▽	22 USt	11 USt	56	66	82	89	98	115	121	131	148	154	164	180	187	197	213	220	230	236	246	253	262	
262	12 → 61	109 - 122	22	20.4	15.7	14.3	12.5	11	11	10.1	8.8	8.4	7.8	6.9	6.6	6.1	5.5	5.3	5	4.8	4.4	4.2	3.8	USt
	12 → 67	117 - 132	22	22	17.3	15.7	13.8	11.3	11	11	9.6	9.2	8.5	7.5	7.2	6.7	6	5.8	5.4	5.2	4.8	4.6	4.1	USt P+
246	12 → 67	120 - 134	22	22	17.6	16	14.1	11.6	11	11	9.9	9.4	8.7	7.7	7.4	6.9	6.2	5.9	5.6	5.4	5		USt	
	12 → 70	125 - 140	22	22	18.4	16.8	14.8	12.3	11.4	11	10.4	9.9	9.2	8.2	7.9	7.4	6.6	6.3	6	5.8	5.4		USt P+	
230	12 → 75	133 - 147	22	22	19.8	18.2	16	13.3	12.4	11.2	10.9	10.5	9.7	8.7	8.3	7.8	7	6.8	6.4				USt	
	12 → 77	138 - 153	22	22	20.5	18.8	16.7	13.9	13	11.8	11	11	10.2	9.1	8.8	8.2	7.5	7.2	6.8				USt P+	
213	12 → 76	135 - 149	22	22	20.2	18.5	16.3	13.5	12.6	11.4	11	10.6	9.9	8.8	8.5	8	7.2						USt	
	12 → 78	143 - 158	22	22	20.9	19.3	17.2	14.4	13.5	12.2	11	11	10.5	9.5	9.1	8.6	7.8							USt P+
197	12 → 76	136 - 148	22	22	20.2	18.5	16.4	13.6	12.7	11.5	11	10.6	9.9	8.8	8.5	8								USt
	12 → 77	139 - 153	22	22	20.6	18.9	16.7	13.9	13	11.8	11	11	10.2	9.2	8.8	8.3								USt P+
180	12 → 77	138 - 152	22	22	20.6	18.9	16.6	13.8	12.9	11.7	11	10.9	10.1	9										USt
	12 → 78	140 - 154	22	22	20.6	19	16.8	14	13.1	11.9	11	11	10.3	9.2										USt P+
164	12 → 79	140 - 155	22	22	21.1	19.3	17	14.1	13.2	12	11	11	10.3											USt
	12 → 80	143 - 158	22	22	21.3	19.5	17.3	14.4	13.5	12.3	11	11	10.6											USt P+
148	12 → 78	139 - 148	22	22	20.9	19.1	16.8	13.9	13	11.8	11													USt
	12 → 78	139 - 148	22	22	20.9	19.1	16.8	13.9	13	11.8	11													USt P+
131	12 → 80		22	22	21.3	19.4	17.1	14.2	13.2	12														USt
	12 → 80		22	22	21.3	19.4	17.1	14.2	13.2	12														USt P+
115	12 → 80		22	22	21.3	19.5	17.2	14.2																USt
	12 → 80		22	22	21.3	19.5	17.2	14.2																USt P+

$W = W - 1.67 \text{ USt max.}$



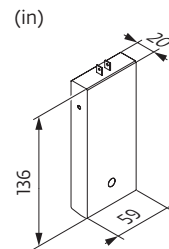
		▽ (ft)																ft						
▽	22 USt	11 USt	56	66	82	89	98	115	121	131	148	154	164	180	187	197	213	220	230	236	246	253	262	
262	9 → 63	113 - 117	22	21.1	16.3	14.9	13.1	11	10.5	9.6	8.2	7.8	7.2	6.3	6	5.6	4.9	4.7	4.4	4.2	3.9	3.6	3.3	USt
	9 → 68	122 - 126	22	22	17.9	16.4	14.4	11.9	11.1	10	9.1	8.6	7.9	6.9	6.6	6.1	5.4	5.2	4.8	4.6	4.2	4	3.5	USt P+
246	9 → 69	125 - 129	22	22	18.2	16.6	14.8	12.3	11.5	10.4	9.4	8.9	8.2	7.3	6.9	6.4	5.7	5.4	5.1	4.9	4.5			USt
	9 → 71	131 - 135	22	22	19	17.4	15.5	12.9	12.1	11	9.9	9.4	8.7	7.7	7.4	6.9	6.2	5.9	5.5	5.3	4.9			USt P+
230	9 → 76	139 - 143	22	22	20.4	18.8	16.7	13.9	13	11.9	10.5	10.1	9.4	8.3	7.9	7.4	6.7	6.4	6					USt
	9 → 79	145 - 149	22	22	21.2	19.5	17.3	14.5	13.6	12.4	11	10.6	9.9	8.8	8.4	7.9	7.1	6.8	6.5					USt P+
213	9 → 78	141 - 145	22	22	20.8	19.1	16.9	14.1	13.2	12	10.8	10.3	9.5	8.5	8.1	7.6	6.9							USt
	9 → 80	149 - 153	22	22	21.6	20	17.8	15	14.1	12.9	11.2	10.9	10.2	9.1	8.7	8.2	7.4							USt P+
197	9 → 78	142 - 144	22	22	20.9	19.1	17	14.2	13.3	12.1	10.7	10.3	9.5	8.5	8.1	7.6								USt
	9 → 79	146 - 149	22	22	21.2	19.5	17.3	14.5	13.6	12.5	11	10.6	9.9	8.8	8.4	7.9								USt P+
180	9 → 79	144 - 148	22	22	21.2	19.5	17.3	14.4	13.5	12.3	11	10.5	9.8	8.7										USt
	9 → 79	147 - 150	22	22	21.3	19.6	17.4	14.6	13.7	12.5	11	10.7	9.9	8.9										USt P+
164	9 → 81	146 - 151	22	22	21.7	19.9	17.6	14.7	13.8	12.6	11	10.7	10											USt
	9 → 81	150 - 154	22	22	21.9	20.1	17.9	15	14.1	12.9	11.2	10.9	10.2											USt P+
148	9 → 80	146 - 148	22	22	21.5	19.7	17.4	14.5	13.6	12.4	11													USt
	9 → 80	146 - 148	22	22	21.5	19.7	17.4	14.5	13.6	12.4	11													USt P+
131	9 → 82		22	22	21.9	20	17.7	14.8	13.8	12.6														USt
	9 → 82		22	22	21.9	20	17.7	14.8	13.8	12.6														USt P+
115	9 → 82		22	22	21.9	20.1	17.9	14.8																USt
	9 → 82		22	22	21.9	20.1	17.9	14.8																USt P+

$W = W - 0.47 \text{ USt max.}$

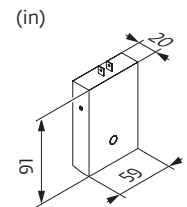
Jib weight & counter-jib ballast

▽	▽ (lb) (+/- 5%)			100 LVF			180 LVF GH		
	▽	▽	▽	13,228 lb	8,818 lb	▽ (lb)	13,228 lb	8,818 lb	▽ (lb)
262 ft	43,497	42,505	44,688	5	0	66,139	3	2	57,320
246 ft	42,097	41,105	43,288	4	1	61,729	3	1	48,502
230 ft	41,734	40,741	42,924	4	1	61,729	3	1	48,502
213 ft	40,124	39,132	41,315	3	2	57,320	2	2	44,092
197 ft	37,721	36,729	38,912	3	1	48,502	2	1	35,274
180 ft	36,123	35,131	37,313	2	2	44,092	1	2	30,865
164 ft	34,921	33,929	36,112	3	2	57,320	2	2	44,092
148 ft	33,323	32,331	34,513	3	1	48,502	2	1	35,274
131 ft	31,151	30,159	32,342	2	2	44,092	1	2	30,865
115 ft	28,671	27,679	29,862	2	1	35,274	1	1	22,046

CBC - 13,228 lb




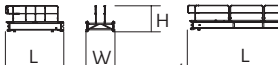
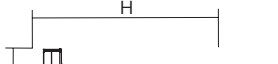



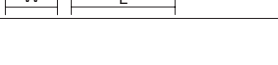




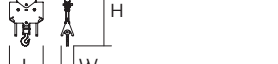








CBD - 8,818 lb

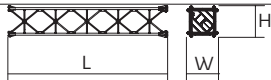
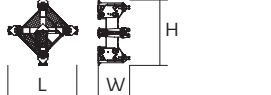
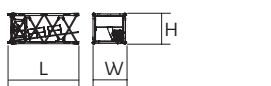
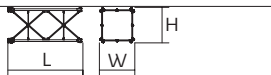
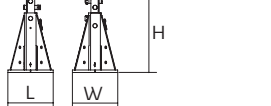
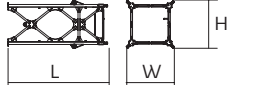

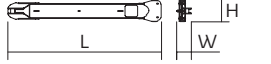
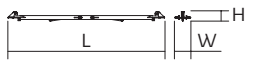
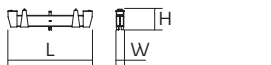
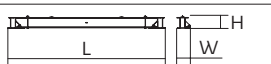
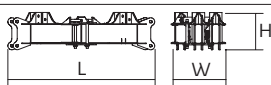

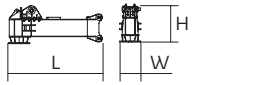
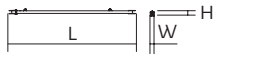
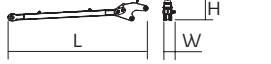
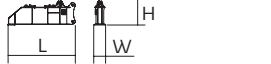
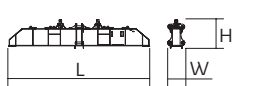




Dimensions and weight

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		\square 8 ft	12.5	14	9.7	20,349
		\square 8.2 ft	12.5	14	8.7	18,805
Hoisting winch (+ rope)		100 LVF	10.4	5.2	6.2	9,822
		180 LVF GH	14	6.6	7.7	20,349
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 + Pulley block			5.9	7.3	5.3	1,455
		22 USt	3.9	1.4	7.4	1,940
Trolley			13.5	7.2	3.8	2,635
Trolley			7	7.2	3.8	1,422
Pulley block			6	1.1	7.3	1,951
		22 USt	3.8	0.7	5.8	981
	11 USt					
Crane tower						
Telescopic cage T 851		\square 8 ft	36.7	15.9	19	34,723
Telescopic cage		\square 8.2 ft	24.3	12	19.1	13,669

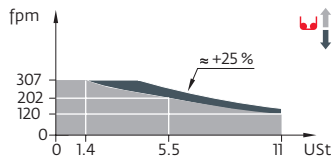
		L (ft)	W (ft)	H (ft)	Ib (+/- 5%)
Slider		8.2 ft			
Slider base		8.2 ft			
K 850/KR 849B KM 850.10B KM 850.14B KRMT 849A K 849A KR 849A K 850/KR 849A KMT 850.10A KMT 850.14A KR 849C KRMT 849C		8 ft			
R 87 R 86 R 85		8.2 ft			
Fixing angles		P 802B P 854A P 80A			
Basic mast unit		Y 800B Y 80A			
Struts		Y 800B Y 80A			
1/2 Side member		Y 800B Y 80A			
Side member		Y 800B Y 80A			
Ballast support		Y 800B Y 80A			
Chassis beam		Y 800B Y 80A			
Central cross (transport position)		YM 850 JM 850			
Basic mast unit		YM 850 JM 850			
Chassis girder		YM 850 JM 850			
Chassis ties		YM 850 JM 850			
Struts		YM 850 JM 850			
1/2 Cross girder		ZY 854			
Cross girder		ZY 854			
		ZX 6830			
		ZX 6830			

Mechanisms

480 V - 60 Hz													hp	kW	
	100 LVF 50 Optima	fpm	120	153	202	258	307	61	79	105	146	154	100	75	3,340 ft
		USt	11	8.3	5.5	2.8	1.4	22	16.5	11	5.5	4.3			
	180 LVF 50 GH Optima	fpm	220	267	353	536	805	112	136	182	285	404	180	132	3,937 ft
		USt	11	8.3	5.5	2.8	0.4	22	16.5	11	5.5	1.9			
	10 DVF 10 Optima	fpm	0 → 262 (22 USt) 0 → 328 (13.8 USt) 0 → 361 (6.9 USt)												
	RVF 173 Optima+	rpm	0 → 0.9												

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

100 LVF 50 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.

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

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