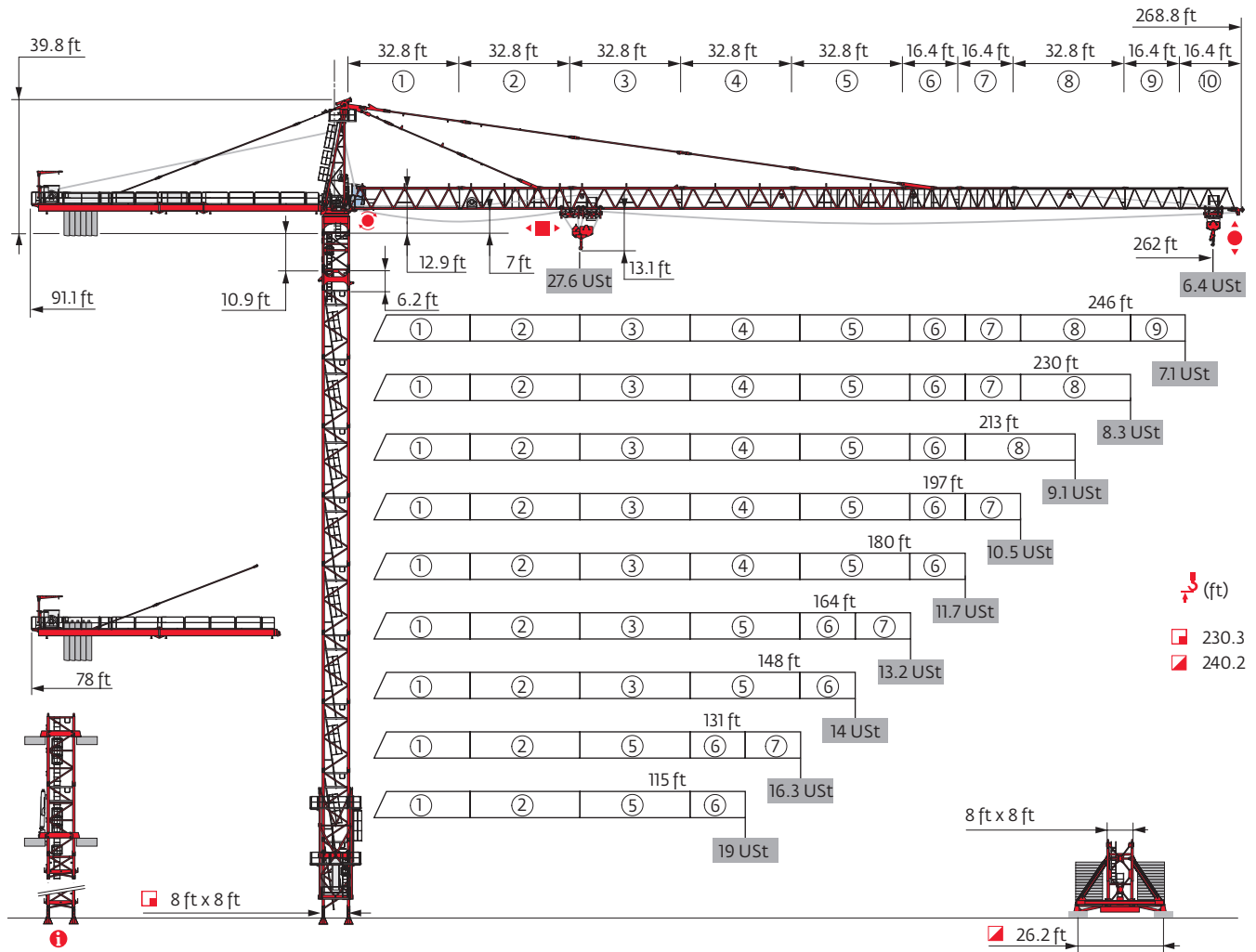


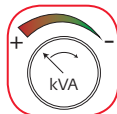
# MD 569



Potain Plus



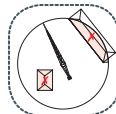
Power Control



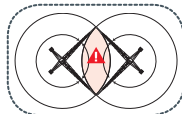
Top Site



Top Tracing 3



CabLIFT



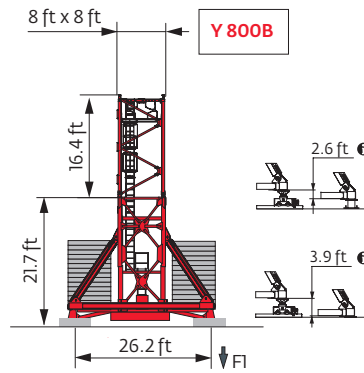
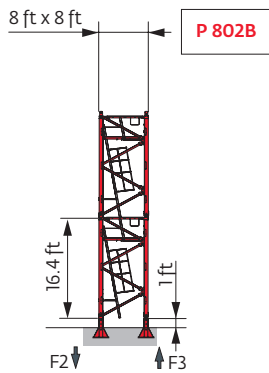
TCL



Mast - Reactions

8 ft - P 802B										
Height (ft)	115	131	148	164	180	197	213	230	246	262
↓ (ft)	230.3	230.3	225.1	230.3	225.1	225.1	219.5	219.5	208.7	208.7
↓/P <sub>r</sub> (ft)	230.3	230.3	225.1	230.3	225.1	225.1	219.5	219.5	208.7	208.7
10.9 ft	1	1	1	1	1	1	1	1	1	1
6.2 ft	1	1	1	1	1	1	1	1	1	1
10.9 ft	2	2	0	2	0	0	1	1	0	0
16.4 ft	12	12	13	12	13	13	12	12	12	12
F2 (Ust)	● 267	● 271	● 270	● 272	● 262	● 264	● 259	● 257	● 251	● 252
	■ 324	■ 329	■ 293	■ 334	■ 305	■ 314	■ 296	■ 307	■ 274	■ 275
F3 (Ust)	● 171	● 172	● 183	● 169	● 173	● 159	● 168	● 150	● 149	● 150
	■ 242	■ 244	■ 206	■ 245	■ 215	■ 223	■ 205	■ 214	■ 181	■ 180

8 ft - Y 800B										
Height (ft)	115	131	148	164	180	197	213	230	246	262
↓ (ft)	240.2	240.2	229.3	240.2	229.3	229.3	229.3	229.3	218.2	212.9
↓/P <sub>r</sub> (ft)	240.2	240.2	229.3	240.2	229.3	229.3	229.3	229.3	218.2	212.9
10.9 ft	1	1	1	1	1	1	1	1	1	1
6.2 ft	1	1	1	1	1	1	1	1	1	1
10.9 ft	1	1	0	1	0	0	0	0	2	0
16.4 ft	12	12	12	12	12	12	12	12	10	11
F1 (Ust)	● 143	● 145	● 136	● 143	● 138	● 137	● 139	● 138	● 140	● 136
	■ 157	■ 159	■ 136	■ 161	■ 140	■ 143	■ 142	■ 145	■ 140	■ 131



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



Base ballast

(Ust) / 8 ft - Y 800B -										
(ft)	115	131	148	164	180	197	213	230	246	262
240.2	105.8	105.8		92.6						
229.3	92.6	92.6	92.6	79.4	92.6	79.4	92.6	79.4		
218.2	92.6	79.4	79.4	79.4	79.4	79.4	79.4	79.4	92.6	
212.9	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
196.5	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
180.1	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
163.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
147.3	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
130.9	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
98.1	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
81.7	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4

Load curves



(ft)			56	66	82	89	98	115	121	131	148	154	164	180	187	197	213	220	230	236	246	253	262	ft
27.6 USt	13.8 USt																							
262	13 → 68	121 - 133	27.6	27.6	22.2	20.3	17.8	14.7	13.8	13.8	12.2	11.5	10.7	9.6	9.2	8.6	7.8	7.5	7.1	6.8	6.5	6.2	5.9	USt
	13 → 70	126 - 138	27.6	27.6	23	21.1	18.6	15.4	14.4	13.8	12.8	12.2	11.3	10.1	9.7	9.1	8.3	8	7.5	7.3	6.9	6.7	6.4	USt <b>P+</b>
246	13 → 69	123 - 134	27.6	27.6	22.5	20.5	18.1	15	14	13.8	12.3	11.7	10.9	9.7	9.3	8.7	7.9	7.6	7.2	6.9	6.6	USt		
	13 → 71	128 - 140	27.6	27.6	23.4	21.4	18.9	15.8	14.7	13.8	13	12.4	11.5	10.3	9.9	9.3	8.4	8.1	7.7	7.5	7.1	USt <b>P+</b>		
230	13 → 72	130 - 140	27.6	27.6	23.8	21.8	19.2	16	14.9	13.8	13	12.4	11.5	10.3	9.9	9.3	8.4	8.1	7.7	USt				
	13 → 75	136 - 148	27.6	27.6	24.9	22.8	20.2	16.9	15.8	14.4	13.8	13.1	12.2	11	10.5	9.9	9	8.7	8.3	USt <b>P+</b>				
213	13 → 73	130 - 141	27.6	27.6	23.9	21.9	19.3	16.1	15	13.8	13.1	12.4	11.6	10.3	9.9	9.3	8.5	USt						
	13 → 76	137 - 149	27.6	27.6	25.1	23	20.4	17	15.9	14.5	13.8	13.2	12.3	11.1	10.6	10	9.1	USt <b>P+</b>						
197	13 → 76	135 - 147	27.6	27.6	25.1	22.9	20.3	16.9	15.8	14.3	13.7	13	12.1	10.8	10.4	9.8	USt							
	13 → 79	143 - 155	27.6	27.6	26.4	24.2	21.4	17.9	16.8	15.3	13.8	13.8	13	11.6	11.2	10.5	USt <b>P+</b>							
180	13 → 76	136 - 148	27.6	27.6	25.2	23	20.3	16.9	15.8	14.4	13.7	13.1	12.2	10.9	USt									
	13 → 79	144 - 156	27.6	27.6	26.6	24.3	21.6	18	16.9	15.4	13.8	13.8	13.1	11.7	USt <b>P+</b>									
164	13 → 76	136 - 148	27.6	27.6	25.2	23.1	20.4	17	15.9	14.4	13.8	13.1	12.2	USt										
	13 → 80	145 - 157	27.6	27.6	26.7	24.5	21.7	18.2	17	15.5	13.8	13.8	13.2	USt <b>P+</b>										
148	13 → 76	136 - 148	27.6	27.6	25.2	23	20.4	16.9	15.8	14.4	13.8	USt												
	13 → 80	145 - 148	27.6	27.6	26.8	24.5	21.8	18.2	17.1	15.5	13.8	USt <b>P+</b>												
131	13 → 76		27.6	27.6	25.4	23.2	20.5	17.1	16	14.5	USt													
	13 → 81		27.6	27.6	27	24.8	22	18.4	17.3	15.7	USt <b>P+</b>													
115	13 → 76		27.6	27.6	25.4	23.2	20.5	17.1	USt															
	13 → 81		27.6	27.6	27	24.9	22.1	18.5	USt <b>P+</b>															

$w_{L1} = w_{L2} - 1.59 \text{ USt max.}$



(ft)			56	66	82	89	98	115	121	131	148	154	164	180	187	197	213	220	230	236	246	253	262	ft
27.6 USt	13.8 USt																							
262	9 → 70	127 - 129	27.6	27.6	23	21.1	18.6	15.5	14.5	13.5	11.7	11.1	10.3	9.1	8.7	8.2	7.3	7.1	6.6	6.4	6	5.8	5.5	USt
	9 → 72	132 - 135	27.6	27.6	23.8	21.8	19.4	16.2	15.2	13.8	12.4	11.7	10.9	9.7	9.3	8.7	7.9	7.5	7.1	6.9	6.5	6.3	6	USt <b>P+</b>
246	9 → 71	128 - 130	27.6	27.6	23.2	21.2	18.8	15.7	14.7	13.7	11.9	11.3	10.4	9.3	8.9	8.3	7.5	7.2	6.8	6.5	6.2	USt		
	9 → 73	133 - 136	27.6	27.6	24.1	22.1	19.6	16.4	15.4	14.1	12.6	11.9	11.1	9.9	9.5	8.9	8	7.7	7.3	7	6.7	USt <b>P+</b>		
230	9 → 74	134 - 137	27.6	27.6	24.4	22.4	19.8	16.6	15.5	14.1	12.6	12	11.1	9.9	9.5	8.9	8	7.7	7.3	USt				
	9 → 76	141 - 144	27.6	27.6	25.5	23.4	20.8	17.4	16.4	15	13.4	12.7	11.8	10.6	10.1	9.5	8.6	8.3	7.9	USt <b>P+</b>				
213	9 → 74	134 - 138	27.6	27.6	24.5	22.5	19.9	16.6	15.6	14.2	12.7	12	11.2	9.9	9.5	8.9	8	USt						
	9 → 77	142 - 145	27.6	27.6	25.7	23.6	20.9	17.6	16.5	15.1	13.5	12.8	11.9	10.6	10.2	9.6	8.7	USt <b>P+</b>						
197	9 → 77	140 - 143	27.6	27.6	25.6	23.5	20.8	17.4	16.3	14.9	13.3	12.6	11.7	10.4	10	9.4	USt							
	9 → 80	148 - 151	27.6	27.6	26.9	24.7	22	18.5	17.4	15.9	13.8	13.5	12.6	11.2	10.8	10.1	USt <b>P+</b>							
180	9 → 77	140 - 143	27.6	27.6	25.7	23.6	20.9	17.5	16.4	14.9	13.3	12.7	11.8	10.5	USt									
	9 → 81	149 - 152	27.6	27.6	27.1	24.9	22.2	18.6	17.5	16	13.9	13.6	12.6	11.3	USt <b>P+</b>									
164	9 → 77	141 - 144	27.6	27.6	25.8	23.7	21	17.6	16.4	15	13.4	12.7	11.8	USt										
	9 → 81	150 - 153	27.6	27.6	27.3	25.1	22.3	18.8	17.6	16.1	14	13.7	12.7	USt <b>P+</b>										
148	9 → 77	141 - 144	27.6	27.6	25.8	23.6	20.9	17.5	16.4	15	13.3	USt												
	9 → 81		27.6	27.6	27.3	25.1	22.3	18.8	17.6	16.1	14	USt <b>P+</b>												
131	9 → 78		27.6	27.6	26	23.8	21.1	17.7	16.6	15.1	USt													
	9 → 82		27.6	27.6	27.6	25.4	22.6	19	17.8	16.3	USt <b>P+</b>													
115	9 → 78		27.6	27.6	25.9	23.8	21.1	17.6	USt															
	9 → 82		27.6	27.6	27.6	25.5	22.7	19	USt <b>P+</b>															

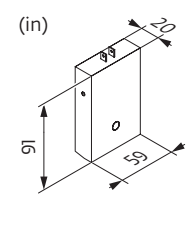
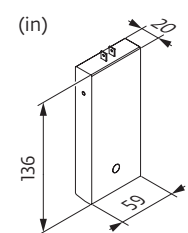
$w_{L1} = w_{L2} - 0.38 \text{ USt max.}$

Jib weight & counter-jib ballast



(ft)	(lb) (+/- 5%)		100 LVF			180 LVF GH		
			13,228 lb	8,818 lb	(lb)	13,228 lb	8,818 lb	(lb)
262 ft	56,516	57,596	6	0	79,366	4	2	70,548
246 ft	55,413	56,493	5	1	74,957	3	3	66,139
230 ft	54,201	55,281	5	1	74,957	2	4	61,729
213 ft	51,809	52,889	5	0	66,139	1	5	57,320
197 ft	51,136	52,216	5	0	66,139	2	3	52,911
180 ft	48,744	49,824	4	1	61,729	1	4	48,502
164 ft	45,040	46,121	5	0	66,139	2	3	52,911
148 ft	42,659	43,740	4	1	61,729	2	3	52,911
131 ft	38,592	39,672	2	3	52,911	1	3	39,683
115 ft	36,211	37,291	1	4	48,502	0	4	35,274

CBC - 13,228 lb



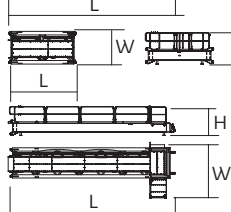






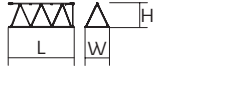
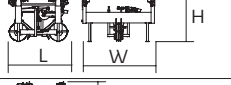

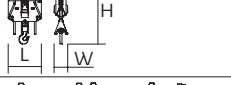

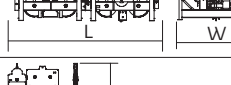

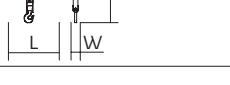

CBD - 8,818 lb

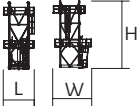


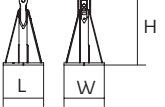


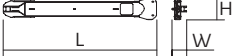

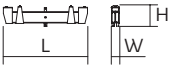
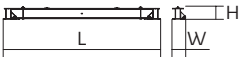


Dimensions and weight

Slewing crane:  262 ft -  100 LVF



Slewing crane part		L (ft)	W (ft)	H (ft)	lb (+/- 5%)	
Counter-jib		38.4	13.5	6.4	14,308	
		13.8	6.6	6.4	4,365	
		36.2	11.7	6.8	10,858	
Cathead	 	11.6	6.5	32.3	18,221	
Cab		Ultra View 16.4	8.2	9.1	4,134	
Towerhead		8 ft 12.1	9.5	12.7	24,670	
Hoisting winch (+ rope)		100 LVF 180 LVF GH 10.4 14	5.2 6.3	5.7 6.2	9,138 20,349	
Jib section		①	34	6.2	8.3	11,188
		② 10 DVF	33.9	6.2	7.7	10,439
		③	33.6	6.2	7.9	6,625
		④	33.6	6.2	7.6	6,096
		⑤	33.6	6.2	7.6	6,250
Jib section		⑥	17.5	6.2	7.4	3,792
		⑦	17.2	6.2	6.7	2,381
		⑨	17	6.2	6.5	1,213
		⑩	16.7	6.2	6.5	1,102
Trolley		 27.6 USt	5.9	7.4	4.7	1,676
Pulley block		 27.6 USt	3.9	1.4	7.8	1,874
Trolley		 27.6 USt	13.5	7.2	3.8	2,635
Pulley block		 27.6 USt	6	1.1	7.7	1,995

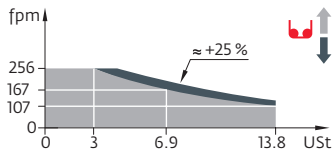
Crane Tower	L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Telescopic cage 	8 ft	15.2	19	33.6 29,200
K 849/K 849 Telescoping mast 	8 ft	7	10.7	8.2 6,581
KR 849A KRMT 849A KR 849C KRMT 849C 	8 ft	17.2 17.2 11.7 11.7	8.3 8.4 8.3 8.4	8.2 8.3 8.3 8.3 9,458 9,017 7,044 7,066
Fixing angles 	P 802B	2.5	2.5	4.2 1,025
Basic mast unit 	Y 800B	19.8	9.6	9.6 19,004
Struts 	Y 800B	18.1	1.6	1.5 2,447
1/2 Side member 	Y 800B	18.6	4.1	2.4 3,351
Side member 	Y 800B	39.4	4.1	2.4 6,724
Ballast support 	Y 800B	12.3	1.2	3 2,392
Chassis beam 	Y 800B	28.5	2.7	2.4 4,938

Mechanisms

480 V - 60 Hz											hp	kW			
	<b>100 LVF 63 Optima</b>	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					
	<b>180 LVF 63 GH Optima</b>	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			
	<b>10 DVF 10 Optima</b>	fpm	0 → 217 (27.6 USt) 0 → 262 (22 USt) 0 → 328 (13.8 USt) 0 → 361 (6.9 USt)				10	7.4							
	<b>RVF 173 Optima+</b>	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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