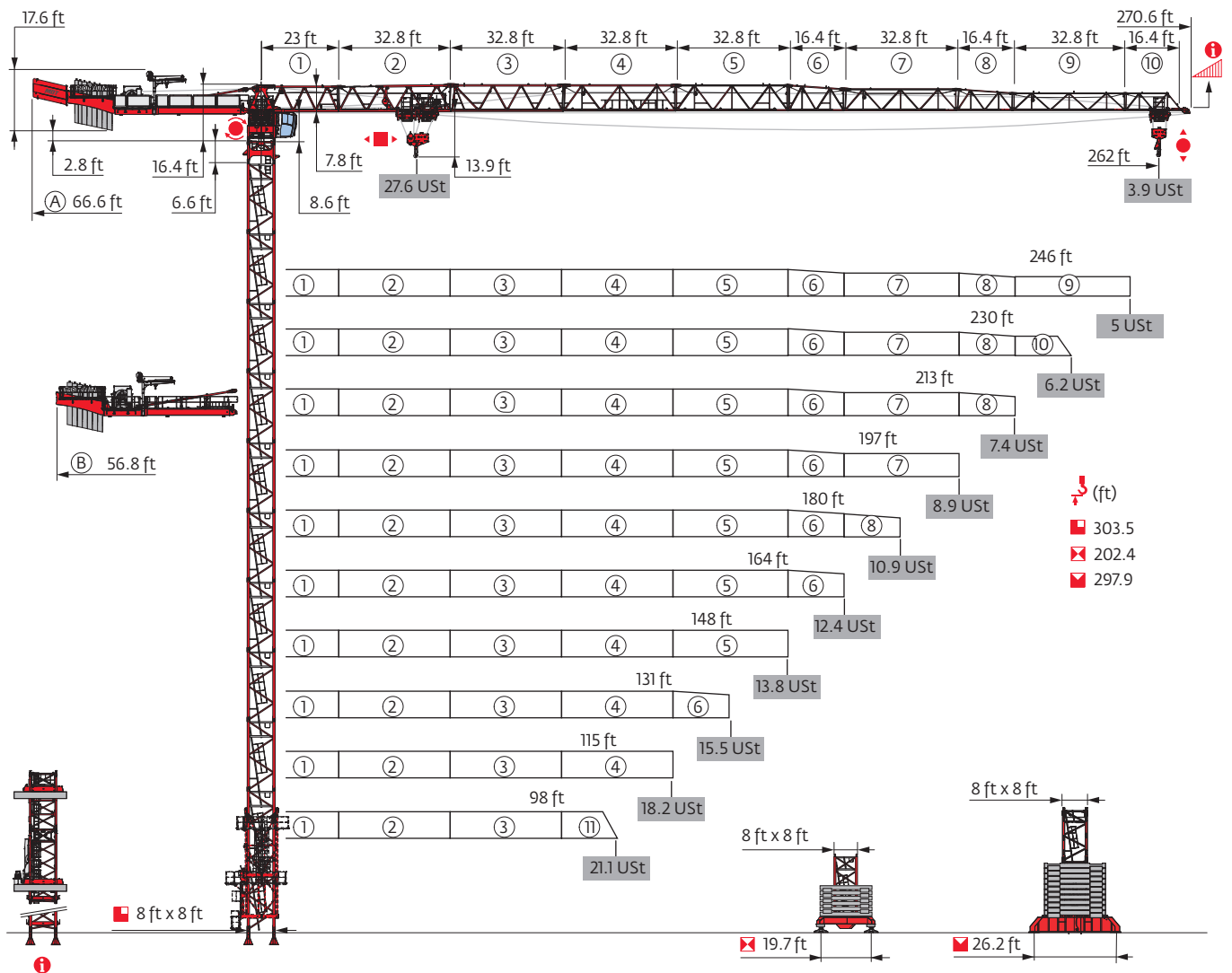


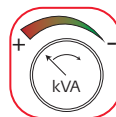
## MDT 489 M25



Potain Plus



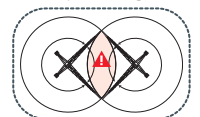
Power Control



Top Site



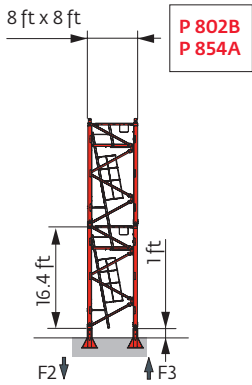
Top Tracing 3



Mast - Reactions

8 ft - P 802B											
Height (ft)	98	115	131	148	164	180	197	213	230	246	262
Height (ft)	243.1	237.9	243.1	237.9	232.3	232.3	232.3	232.3	221.5	221.5	205.1
Height/P <sub>r</sub> (ft)	243.1	237.9	243.1	237.9	232.3	232.3	232.3	232.3	221.5	221.5	205.1
6.6 ft	1	1	1	1	1	1	1	1	1	1	1
10.9 ft	1	2	1	2	0	0	0	0	2	2	2
16.4 ft	14	13	14	13	14	14	14	14	12	12	11
F2 (Ust)	● 271	266	274	272	263	272	272	270	264	261	240
	■ 377	360	380	371	348	352	356	361	346	361	317
F3 (Ust)	● 181	173	178	174	165	171	170	166	161	158	138
	■ 299	280	297	286	263	265	266	270	255	271	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)	● 337	335	340	332	331	341	343	344	348	341	344
	■ 613	610	616	584	585	597	600	602	596	593	599
F3 (Ust)	● 229	224	227	219	216	222	223	223	227	223	224
	■ 518	511	516	485	483	491	493	494	489	487	493



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

8 ft - ZX 6830 -

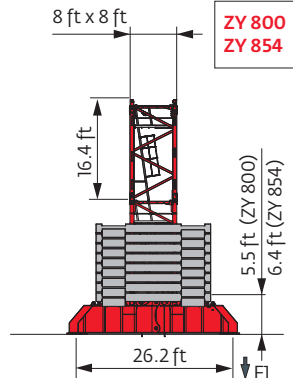
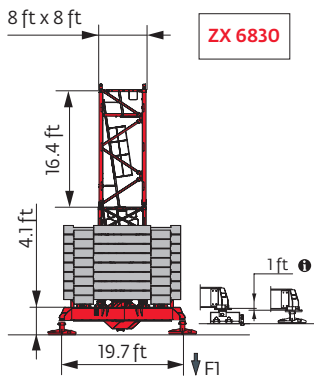
Height (ft)	98	115	131	148	164	180	197	213	230	246	262
Height (ft)	191.6	186	186	186	186	197.2	202.4	191.6	191.6	197.2	197.2
Height/P <sub>r</sub> (ft)	186	186	186	180.8	186	175.2	186	186	186	186	191.6
6.6 ft	1	1	1	1	1	1	1	1	1	1	1
10.9 ft	2	0	0	0	0	1	0	2	2	1	1
16.4 ft	10	11	11	11	11	11	12	10	10	11	11
FI (USt)	● 157 ■ 145	155 137	157 140	155 139	155 140	156 150	158 156	154 148	156 154	158 171	157 172

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	231.3	225.7	225.7	225.7	220.5	214.9	204.1
Height/P <sub>r</sub> (ft)	242.1	236.9	231.3	236.9	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	1	2	2	2	0	1	0
16.4 ft	13	14	14	14	13	12	12	12	13	12	12
FI (USt)	● 159 ■ 187	153 170	156 174	157 176	152 168	155 163	154 165	153 169	150 162	143 166	141 150

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 <sub>r</sub> (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)	● 219 ■ 306	217 304	220 310	219 302	217 304	223 308	226 311	215 296	222 305	218 305	206 279



Anchorage



Base ballast

**USt) / 8 ft - ZX 6830 -**

(ft)	98	115	131	148	164	180	197	213	230	246	262
202.4							133.4				
197.2						133.4	133.4			144.4	144.4
191.6	155.4					133.4	122.4	122.4	133.4	144.4	144.4
186	166.5	155.4	155.4	144.4	144.4	122.4	133.4	133.4	133.4	144.4	144.4
169.6	155.4	144.4	144.4	144.4	144.4	133.4	122.4	122.4	133.4	133.4	133.4
153.2	144.4	144.4	133.4	133.4	133.4	122.4	111.3	122.4	133.4	133.4	133.4
136.8	133.4	122.4	122.4	122.4	122.4	111.3	100.3	122.4	133.4	122.4	133.4
120.4	122.4	122.4	122.4	122.4	122.4	111.3	89.3	111.3	122.4	122.4	122.4
104	122.4	122.4	111.3	122.4	111.3	111.3	89.3	111.3	122.4	122.4	122.4
87.6	122.4	122.4	111.3	122.4	111.3	111.3	89.3	111.3	122.4	111.3	122.4
71.2	122.4	122.4	111.3	122.4	111.3	100.3	89.3	111.3	122.4	111.3	122.4

**USt) / 8 ft - ZY 800 -**

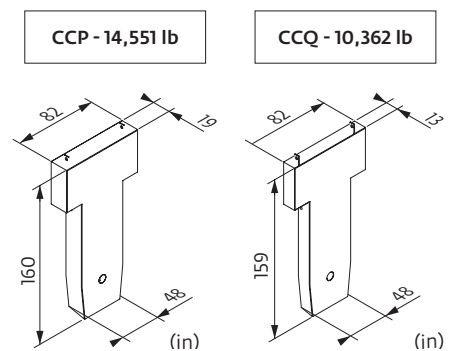
(ft)	98	115	131	148	164	180	197	213	230	246	262
242.1	105.8										
236.9	92.6	92.6	92.6	92.6							
231.3	92.6	92.6	92.6	79.4	66.1						
225.7	92.6	92.6	79.4	79.4	79.4	79.4	66.1	66.1			
220.5	92.6	79.4	79.4	79.4	79.4	66.1	66.1	66.1	66.1		
214.9	79.4	79.4	79.4	79.4	79.4	66.1	66.1	52.9	66.1	66.1	
204.1	79.4	79.4	79.4	66.1	66.1	52.9	52.9	52.9	66.1	66.1	79.4
187.7	79.4	66.1	66.1	66.1	66.1	52.9	39.7	52.9	66.1	66.1	66.1
171.3	66.1	66.1	66.1	52.9	52.9	52.9	39.7	52.9	66.1	66.1	66.1
154.9	66.1	52.9	52.9	52.9	52.9	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	211.6	211.6	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	119.1	119.1	119.1	119.1	105.8	105.8	105.8	105.8	119.1	132.3	132.3
237.5	92.6	79.4	79.4	79.4	79.4	79.4	66.1	66.1	79.4	92.6	105.8
221.1	79.4	79.4	79.4	66.1	66.1	66.1	52.9	52.9	52.9	66.1	79.4
204.7	66.1	66.1	66.1	66.1	66.1	52.9	39.7	39.7	52.9	66.1	66.1
188.3	66.1	66.1	52.9	52.9	52.9	39.7	39.7	39.7	52.9	66.1	66.1
171.9	52.9	52.9	52.9	52.9	52.9	39.7	26.5	39.7	52.9	52.9	52.9
155.5	52.9	39.7	39.7	39.7	39.7	39.7	26.5	39.7	52.9	52.9	52.9
139.1	39.7	39.7	39.7	39.7	26.5	39.7	26.5	39.7	52.9	52.9	52.9
122.7	39.7	39.7	39.7	39.7	26.5	39.7	26.5	39.7	52.9	52.9	52.9
106.3	39.7	39.7	39.7	39.7	26.5	39.7	26.5	39.7	52.9	39.7	52.9
89.9	39.7	39.7	39.7	39.7	26.5	39.7	26.5	39.7	52.9	39.7	39.7
73.5	39.7	39.7	39.7	39.7	26.5	39.7	26.5	39.7	52.9	39.7	39.7

Counter-jib ballast

	132 HPL™			180 HPL™ GH		
	14,551 lb	10,362 lb	(lb)	14,551 lb	10,362 lb	(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)																							
▽▽▽▽▽	↔ 27.6 USt	↔ 13.8 USt	56	66	82	98	115	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	14.8 → 46.8 14.8 → 50.7	83.1 - 90.6 89.7 - 98.4	22.4 18.5 14	12.5 10.5	8.9 8.4 7.7 7.3	6.4 6	5.7 5.3	5.1 4.8	4.6 4.3	4.1 3.9	3.7 3.5	USt													
246	14.8 → 55.1 14.8 → 59.3	96 - 104 103.3 - 111.5	24.7 20.3 15.4	13.8 11.5 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>																	
230	14.8 → 65.7 14.8 → 69	111.1 - 119.5 117.1 - 126	27.6 27.6 20.7 16.2	13.8 12.2 11.5 10.5 9.9 9.1	8.7 8	7.7 7.1 6.8 6.4 6.1 5.7	USt																		
213	14.8 → 69.7 14.8 → 71.6	118 - 126.9 122.3 - 131.7	27.6 27.6 22.4 17.6 14.3	13.2 12.4 11.4 10.7 9.9 9.4	8.7 8.3 7.8 7.4 6.9	USt																			
197	14.8 → 70.3 14.8 → 74	122.2 - 131.9 128.4 - 138.5	27.6 27.6 22.8 18.2 14.9	13.8 13.1 12 11.4 10.5 10	9.4 8.9 8.4	USt																			
180	14.8 → 71.9 14.8 → 75.8	130.5 - 141.7 135.7 - 147.1	27.6 27.6 23.8 19.3 16.1	13.8 13 12 11.4 10.5 10	9.4 8.9 8.4	USt <b>P+</b>																			
164	14.8 → 73.1 14.8 → 73.1	132.7 - 144.4 136.3 - 148.6	27.6 27.6 24.2 19.6 16.4 14	13.8 13.8 13.2 12.5 11.7 11.2 10.5	USt <b>P+</b>																				
148	14.8 → 73.8 14.8 → 73.8	134 - 145.5 135.7 - 147.6	27.6 27.6 24.5 19.9 16.6 14.1	13.8 13.6	USt <b>P+</b>																				
131	14.8 → 74.7 14.8 → 74.7		27.6 27.6 24.8 20.1 16.8 14.3	USt <b>P+</b>																					
115	14.8 → 75.3 14.8 → 75.2		27.6 27.6 25 20.3 17	USt																					
98	14.8 → 73.8 14.8 → 74		27.6 27.6 24.4 19.8	USt																					

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



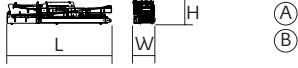



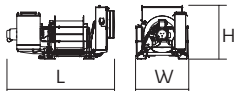
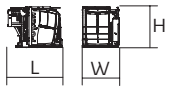
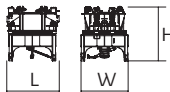

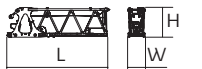


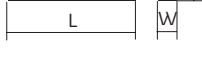







		▽▽▽▽▽ (ft)																							
▽▽▽▽▽	↔ 27.6 USt	↔ 13.8 USt	56	66	82	98	115	131	138	148	154	164	171	180	187	197	203	213	220	230	236	246	253	262	ft
	↔ 27.6 USt	↔ 13.8 USt																							
262	13.1 → 47.5 13.1 → 51.5	85.7 - 87.3 92.3 - 94.8	22.9 19 14.5	11.9 9.8 8.3 7.8 7.1 6.7 6.1 5.8 5.3 5.1 4.7 4.5 4.1 3.9 3.7 3.5 3.3 3.1 2.9	USt																				
246	13.1 → 55.9 13.1 → 60.3	98.8 - 100.5 106.2 - 107.8	25.2 20.8 15.9	13.2 10.9 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>																				
230	13.1 → 66.8 13.1 → 70.2	114.5 - 116.2 120.8 - 122.5	27.6 27.6 21.2 16.8	13.8 11.7 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																				
213	13.1 → 71 13.1 → 73	122 - 123.8 126.5 - 128.5	27.6 27.6 23 18.2 14.9	13.8 11.8 11 10 9.5 8.7 8.2 7.6 7.2 6.7 6.4 5.9 5.7 5.3	USt																				
197	13.1 → 71.7 13.1 → 75.5	126.5 - 128.7 133 - 135.2	27.6 27.6 23.5 18.8 15.6	13.4 12.7 11.6 11 10.2 9.6 9 8.5 8	USt																				
180	13.1 → 73.4 13.1 → 77.3	135.5 - 138.2 140.8 - 143.5	27.6 27.6 24.4 19.9 16.7 14.3	13.8 12.8 12.1 11.3 10.8 10.1	USt <b>P+</b>																				
164	13.1 → 74.6 13.1 → 74.6	137.8 - 140.6 141.8 - 145	27.6 27.6 24.9 20.5 17.4 15 14.2	13.4 12.8 12 11.4 10.9 10 9.5 8.8 8.4 7.8 7.5 7	USt <b>P+</b>																				
148	13.1 → 75.5 13.1 → 75.5	139.2 - 142 141 - 147.6	27.6 27.6 25.1 20.5 17.2 14.8 13.9	13.2	USt <b>P+</b>																				
131	13.1 → 76.1 13.1 → 76.2		27.6 27.6 25.4 20.7 17.4 14.9	USt																					
115	13.1 → 76.8 13.1 → 76.6		27.6 27.6 25.6 20.9 17.6	USt																					
98	13.1 → 75.2 13.1 → 75.5		27.6 27.6 25.8 21.4 18.2	USt <b>P+</b>																					

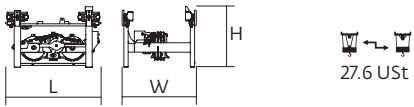

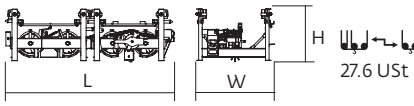

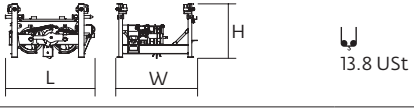


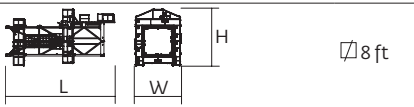

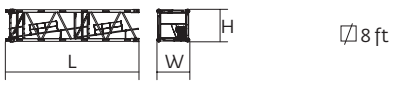
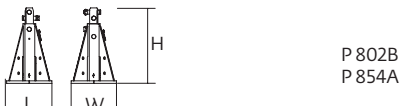
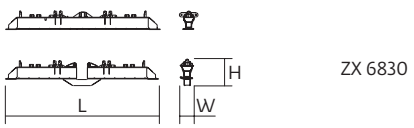

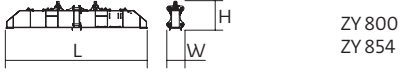
$\text{USt} = \text{USt} - 0.71 \text{ USt max.}$

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	44,677
		53	18.7	12.9	43,795
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	11,387 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	
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 33.9 33.9 17.2 17.5 17.5 17.2 17.2 17.2 17.2 17.2 11.7 12	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	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		ZX 6830	29.9	3.7	3.6	11,607
			29.9	2.5	4.9	12,004
1/2 Cross girder		ZY 800	18.6	3.2	6.3	10,406
		ZY 854	18.6	3.2	7.4	13,095
Cross girder		ZY 800	39.2	4.6	6.3	22,212
		ZY 854	39	4.7	7.4	29,432

Mechanisms

480 V - 60 Hz													hp	kW	
	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 173 Optima +	rpm	0 → 0.7					3 x 10	3 x 7.5						

IEC 60204-32	kVA	
480 V (+6% -10%) 60 Hz	132 HPL™ : 142 → 90 kVA 180 HPL™ GH : 181 → 109 kVA	

These most 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.

