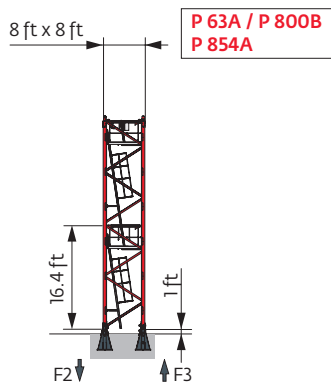


Mast - Reactions

8 ft - P 800B											
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 _z (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 ■ 377	266 360	274 380	272 371	263 348	272 352	272 356	270 361	264 346	261 361	240 317
F3 (Ust)	● 181 ■ 299	173 280	178 297	174 286	165 263	171 265	170 266	166 270	161 255	158 271	138 229

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 _z (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 ■ 613	335 610	340 616	332 584	331 585	341 597	343 600	344 602	348 596	341 593	344 599
F3 (Ust)	● 229 ■ 518	224 511	227 516	219 485	216 483	222 491	223 493	223 494	227 489	223 487	224 493




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: adapted mast compositions, base ballast and reactions.

Other mast compositions - Please consult us


8 ft - ZX 6830 - 

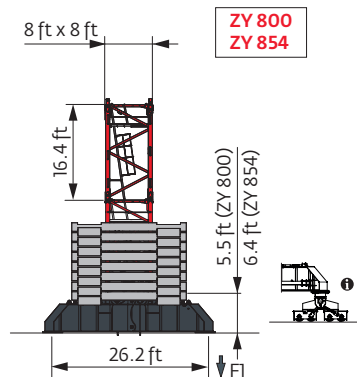
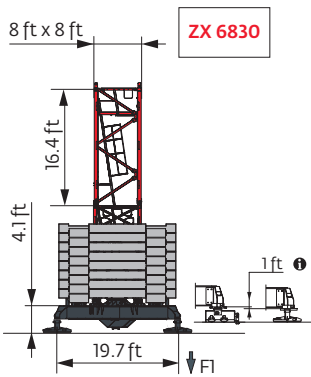
Height (ft)	98	115	131	148	164	180	197	213	230	246	262
H_{eff} (ft)	191.6	186	186	186	186	197.2	202.4	191.6	191.6	197.2	197.2
H_{eff}/P_{eff} (ft)	186	186	186	180.8	186	175.2	186	186	186	186	191.6
	6.6 ft	1	1	1	1	1	1	1	1	1	1
	10.9 ft	2	0	0	0	0	1	0	2	2	1
	16.4 ft	10	11	11	11	11	12	10	10	11	11
FI (USt)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

8 ft - ZY 800 - 

Height (ft)	98	115	131	148	164	180	197	213	230	246	262
H_{eff} (ft)	242.1	236.9	236.9	236.9	231.3	225.7	225.7	225.7	220.5	214.9	204.1
H_{eff}/P_{eff} (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
	10.9 ft	2	0	0	0	1	2	2	2	0	1
	16.4 ft	13	14	14	14	13	12	12	12	13	12
FI (USt)	● 159	153	156	157	152	155	154	153	150	143	141
	■ 187	170	174	176	168	163	165	169	162	166	150

8 ft - ZY 854 - 

Height (ft)	98	115	131	148	164	180	197	213	230	246	262
H_{eff} (ft)	297.9	297.9	297.9	292.3	292.3	292.3	292.3	286.8	286.8	281.5	270.3
H_{eff}/P_{eff} (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
	10.9 ft	1	1	1	2	2	2	0	0	1	0
	16.4 ft	17	17	17	16	16	16	16	17	17	16
FI (USt)	● 219	217	220	219	217	223	226	215	222	218	206
	■ 306	304	310	302	304	308	311	296	305	305	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 -

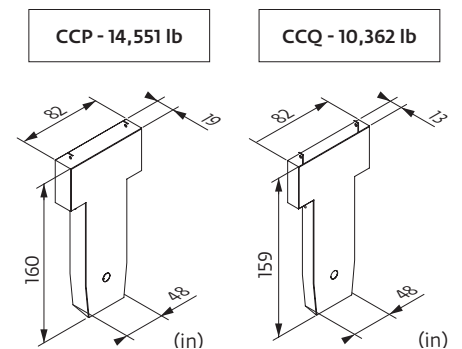
(ft)	98	115	131	148	164	180	197	213	230	246	262
242.1	105.8										
236.9	92.6	92.6	92.6	92.6							
231.3	92.6	92.6	92.6	79.4	66.1						
225.7	92.6	92.6	79.4	79.4	79.4	79.4	66.1	66.1			
220.5	92.6	79.4	79.4	79.4	79.4	66.1	66.1	66.1	66.1		
214.9	79.4	79.4	79.4	79.4	79.4	66.1	66.1	52.9	66.1	66.1	
204.1	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	66.1	66.1	
122.1	52.9	39.7	39.7	39.7	39.7	52.9	39.7	52.9	66.1	66.1	
105.6	52.9	39.7	39.7	39.7	39.7	52.9	39.7	52.9	66.1	66.1	
89.2	52.9	39.7	39.7	39.7	39.7	52.9	39.7	52.9	66.1	66.1	
72.8	52.9	39.7	39.7	39.7	39.7	52.9	39.7	52.9	66.1	66.1	

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	66.1	79.4	
204.7	66.1	66.1	66.1	66.1	66.1	52.9	39.7	39.7	66.1	66.1	
188.3	66.1	66.1	52.9	52.9	52.9	39.7	39.7	39.7	66.1	66.1	
171.9	52.9	52.9	52.9	52.9	52.9	39.7	26.5	39.7	66.1	66.1	
155.5	52.9	39.7	39.7	39.7	39.7	39.7	26.5	39.7	66.1	66.1	
139.1	39.7	39.7	39.7	39.7	26.5	39.7	26.5	39.7	66.1	66.1	
122.7	39.7	39.7	39.7	39.7	26.5	39.7	26.5	39.7	66.1	66.1	
106.3	39.7	39.7	39.7	39.7	26.5	39.7	26.5	39.7	66.1	66.1	
89.9	39.7	39.7	39.7	39.7	26.5	39.7	26.5	39.7	66.1	66.1	
73.5	39.7	39.7	39.7	39.7	26.5	39.7	26.5	39.7	66.1	66.1	

Counter-jib ballast

(ft)	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)		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																							
262	13.1 → 46.9 13.1 → 50.5	83.1 - 90.6 89.7 - 98.4	22.4 18.5 14 24.7 20.3 15.4	12.5 10.5 8.9 13.8 11.5 9.8	8.4 7.7 7.3 9.2 8.5 8	6.4 6 5.7 7.4 7.1 6.6	6 5.3 5.1 6.3 5.8 5.6	4.8 4.6 4.3 5 4.7 4.5	4.1 3.9 3.5 4.3 4.1 3.9	USt														USt P+
246	13.1 → 55.1 13.1 → 59.4	96 - 104 103.3 - 111.5	27.1 22.3 16.9 27.6 24.5 18.5	13.8 12.2 10.4 13.5 11.4 10.8	9.8 9 8.5 9.9 9.3 8.6	7.8 7.5 6.9 8.2 7.6 7.3	6.6 6.2 5.9 6.6 6.5 6.1	5.5 5.3 5 5.8 5.5 5.3	5 4.8 4.5 5 5.3 5	USt														USt P+
230	13.1 → 65.6 13.1 → 68.9	111.1 - 119.5 117.1 - 126	27.6 27.6 20.7 27.6 27.6 22.1	16.2 14.7 17.4 14.2	13.8 12.2 11.5 13.1 12.3 11.3	10.5 9.9 9.1 10.6 9.8 9.3	8.7 8 7.7 8.3 7.7 7.4	7.1 6.8 6.4 6.1 5.7 5.7	USt														USt P+	
213	13.1 → 69.6 13.1 → 71.5	118 - 126.9 122.3 - 131.7	27.6 27.6 22.4 27.6 27.6 23.2	17.6 14.3 18.4 15	13.2 12.4 11.4 13.8 13 11.9	10.7 9.9 9.4 11.3 10.4 9.9	8.7 8.3 7.8 9.2 8.8 8.2	7.4 6.9 6.9 7.4 7.9 7.4	USt														USt P+	
197	13.1 → 70.2 13.1 → 74.1	122.2 - 131.9 128.4 - 138.5	27.6 27.6 22.8 27.6 27.6 24.3	18.2 14.9 19.4 15.9	13.8 13.1 12 13.8 13.8 12.8	11.4 10.5 10 12.1 11.2 10.7	9.4 8.9 8.4 9.9 9.5 8.9	USt														USt P+		
180	13.1 → 71.9 13.1 → 75.8	130.5 - 141.7 135.7 - 147.1	27.6 27.6 23.8 27.6 27.6 25.2	19.3 16.1 20.3 16.9	16.1 14.4 13.8 13.7	13.2 12.5 11.7 13.1 12.1 11.6	11.2 10.5 10.5 10.9 10.9 10.9	USt														USt P+		
164	13.1 → 73.2 13.1 → 73.2	132.7 - 144.4 136.3 - 148.6	27.6 27.6 24.2 27.6 27.6 24.3	19.6 16.4 14 19.9 16.8 14.4	14 14.4 13.8 13.8	12.8 11.9 11.9 13.2 12.4 12.4	USt														USt P+			
148	13.1 → 73.8 13.1 → 73.8	134 - 145.5 135.7 - 147.6	27.6 27.6 24.5 27.6 27.6 24.5	19.9 16.6 14.1 20 16.8 14.3	14.1 14.3 13.8 13.8	USt														USt P+				
131	13.1 → 74.8 13.1 → 74.8		27.6 27.6 24.8 27.6 27.6 24.9	20.1 16.8 14.3 20.5 17.3 14.8	USt														USt P+					
115	13.1 → 75.1 13.1 → 75.1		27.6 27.6 25 27.6 27.6 25.2	20.3 17 20.8 17.6	USt														USt P+					
98	13.1 → 73.8 13.1 → 74.1		27.6 27.6 24.4 27.6 27.6 24.8	19.8 17 20.4 20.4	USt														USt P+					

$$W_{1.5} = W_{1.5} - 1.58 \text{ USt max.}$$



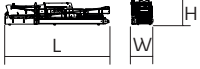




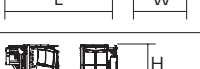

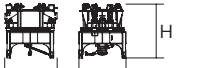

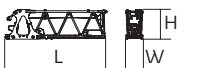
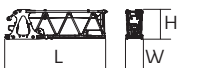


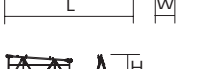
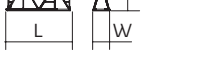


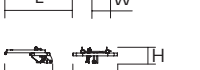
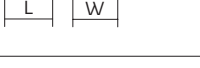


(ft)		56	66	82	98	115	131	138	148	154	164	171	180	187	197	203	213	220	230	236	246	253	262	ft
	27.6 USt																							
262	10.8 → 47.6 10.8 → 51.5	85.7 - 87.3 92.3 - 94.8	22.9 19 14.5 25.2 20.8 15.9	11.9 9.8 8.3 13.2 10.9 9.2	7.8 7.1 6.7 8.6 7.9 7.4	6.1 5.8 5.3 6.4 5.9 5.6	5.1 4.7 4.5 5.2 5 4.6	4.1 3.9 3.7 4.4 4.1 3.9	3.3 3.1 2.9 3.7 3.5 3.3	USt														USt P+
246	10.8 → 55.8 10.8 → 60.4	98.8 - 100.5 106.2 - 107.8	27.6 22.8 17.4 27.6 25 19.1	13.8 11.7 9.8 15.2 12.9 10.9	9.2 8.4 7.9 10.2 9.3 8.8	7.3 6.9 6.4 8.1 7.6 7.1	6.1 5.6 5.3 6.7 6.2 5.9	5 4.7 4.4 5.3 4.9 4.7	4 4.4 4.4 4.4 4.4 4.4	USt														USt P+
230	10.8 → 66.9 10.8 → 70.2	114.5 - 116.2 120.8 - 122.5	27.6 27.6 21.2 27.6 27.6 22.7	16.8 14.7 18 14.7	13.8 11.8 11 12.6 11.9 10.8	10 9.5 8.7 10.2 9.4 8.9	8.2 7.6 7.2 8.2 7.8 7.2	6.7 6.4 5.9 6.7 6.9 6.4	5.7 5.3 5.3 6.2 5.8 5.8	USt														USt P+
213	10.8 → 71.2 10.8 → 73.2	122 - 123.8 126.5 - 128.5	27.6 27.6 23 27.6 27.6 23.8	18.2 14.9 19 15.6	12.8 12 11 13.4 12.6 11.5	10.3 9.5 9 10.9 10 9.5	8.3 7.9 7.4 8.8 8.4 7.8	7 6.5 6.5 7 7.5 7	USt														USt P+	
197	10.8 → 71.9 10.8 → 75.5	126.5 - 128.7 133 - 135.2	27.6 27.6 23.5 27.6 27.6 24.9	18.8 15.6 20 16.6	15.6 14 13.4 12.4	11 10.2 9.6 11.7 10.8 10.3	9 8.5 8 9.5 9.1 8.5	USt														USt P+		
180	10.8 → 73.5 10.8 → 77.4	135.5 - 138.2 140.8 - 143.5	27.6 27.6 24.4 27.6 27.6 25.8	19.9 16.7 14.3 21 17.5 15	14.3 14.1 13.8 12.8	12.1 11.3 10.8 12.7 11.8 11.2	10.1 10.5 10.5 10.5 10.5 10.5	USt														USt P+		
164	10.8 → 74.5 10.8 → 74.5	137.8 - 140.6 141.8 - 145	27.6 27.6 24.8 27.6 27.6 24.9	20.3 17 14.6 20.5 17.4 15	14.6 14.2 13.8 13	12.4 11.5 11.5 12.4 12 12	USt														USt P+			
148	10.8 → 75.5 10.8 → 75.5	139.2 - 142 141 - 147.6	27.6 27.6 25.1 27.6 27.6 25.2	20.5 17.2 14.8 20.6 17.4 15	13.9 13.2 14.2 13.8	USt														USt P+				
131	10.8 → 76.1 10.8 → 76.1		27.6 27.6 25.4 27.6 27.6 25.6	20.7 17.4 14.9 21.1 17.9 15.5	USt														USt P+					
115	10.8 → 76.8 10.8 → 76.8		27.6 27.6 25.6 27.6 27.6 25.8	20.9 17.6 21.4 18.2	USt														USt P+					
98	10.8 → 75.1 10.8 → 75.5		27.6 27.6 25.1 27.6 27.6 25.4	20.5 17 21.1 21.1	USt														USt P+					

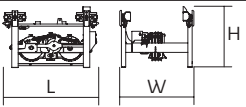

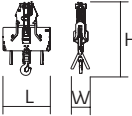

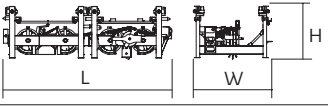

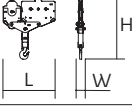

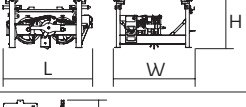

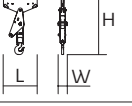

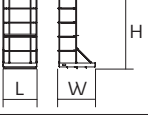
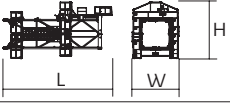





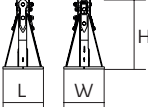
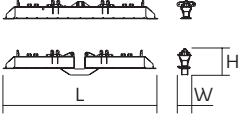
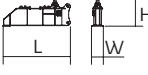

$$W_{0.71} = W_{0.71} - 0.71 \text{ USt max.}$$

Dimensions and weight

Slewing crane part:  262 ft -  -  132 HPL™



Slewing crane part		L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Counter-jib	 (A) (B)	39	7.2	8.3	29,983
	 (A) (B) 132 HPL™	62.9	18.7	12.9	33,290
	 (A) (B) 132 HPL™	53	18.7	12.9	32,408
	 (A) (B) 180 HPL™ GH	62.9	22	12.9	44,677
		53	22	12.9	43,795
Hoisting winch (+ rope)	 132 HPL™	12.4	6.1	6.2	11,387
	 180 HPL™ GH	15.8	6.3	6.5	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
	 ⑧	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)	Ib (+/- 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
Crane tower						
T 851			36.7	15.9	19	34,723
K 84/K 84-2			7.3	10.6	8.2	6,724
KRM 849B 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 33.6 33.9 33.9 17.2 17.5 17.5 17.2 17.2 17.2 17.2 11.7 12	8.4 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 8.3 8.3 8.3 8.3 8.3 8.2	17,196 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 63A / P 800B P 854A	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 ZY 854	18.6	3.2	6.3	10,406
			18.7	3.2	7.4	14,176
Cross girder		ZY 800 ZY 854	39.2 39	4.6 4.7	6.3 7.4	22,212 30,865

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						

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

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
- 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.

