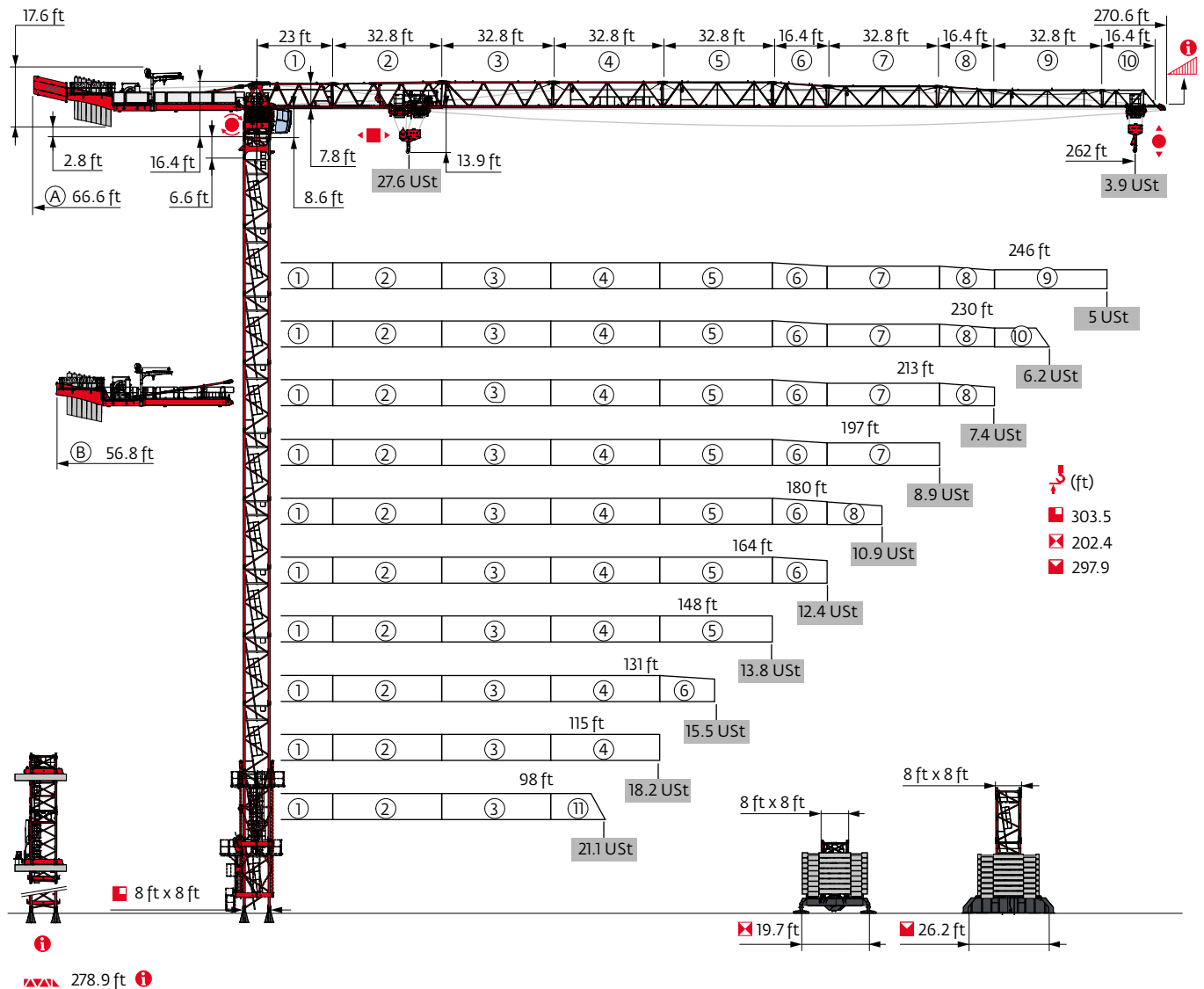
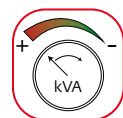


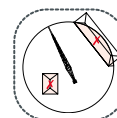
MDT 489 M25



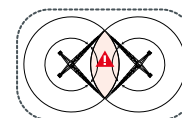
Potain Plus Power Control



Top Site



Anti-collision systems



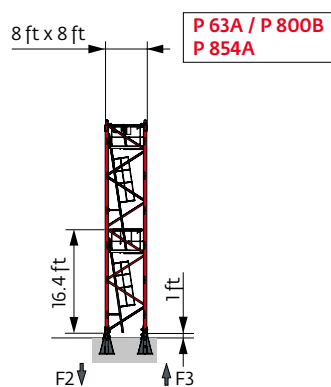
Automatic Rotation Control



Mast - Reactions

8 ft - P 800B											
▲▲▲ (ft)	98	115	131	148	164	180	197	213	230	246	262
↓ (ft)	243.1	237.9	243.1	237.9	232.3	232.3	232.3	232.3	221.5	221.5	205.1
↓/P* (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											
▲▲▲ (ft)	98	115	131	148	164	180	197	213	230	246	262
↓ (ft)	303.5	303.5	303.5	297.9	297.9	297.9	297.9	297.9	292.3	287.1	287.1
↓/P* (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.

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

Other mast compositions - Please consult us

8 ft - ZX 6830 - 

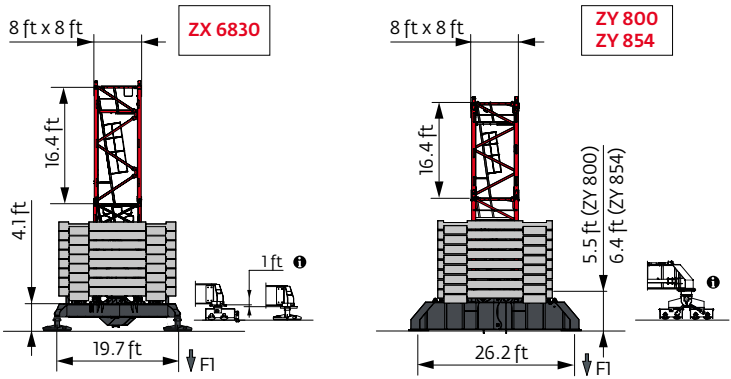
Height (ft)	98	115	131	148	164	180	197	213	230	246	262
Height (ft)	191.6	186	186	186	186	197.2	202.4	191.6	191.6	197.2	197.2
Height/Pt (ft)	186	186	186	180.8	186	175.2	186	186	186	186	191.6
6.6 ft	1	1	1	1	1	1	1	1	1	1	1
10.9 ft	2	0	0	0	0	1	0	2	2	1	1
16.4 ft	10	11	11	11	11	11	12	10	10	11	11
FI (USt)	157	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
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/Pt (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	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
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/Pt (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	217	220	219	217	223	226	215	222	218	206
	306	304	310	302	304	308	311	296	305	305	279



Anchorage



Base ballast

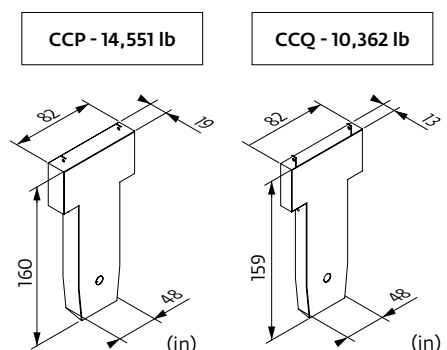
⚖️ (Ust) / 8 ft - ZX 6830 - 🚧											
⚖️ (ft)	98	115	131	148	164	180	197	213	230	246	262
202.4	133.4										
197.2						133.4	133.4			144.4	144.4
191.6	155.4					133.4	122.4	122.4	133.4	144.4	144.4
186	166.5	155.4	155.4	144.4	144.4	122.4	133.4	133.4	133.4	144.4	144.4
169.6	155.4	144.4	144.4	144.4	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	66.1	66.1				
220.5	92.6	79.4	79.4	79.4	79.4	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)		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 → 46.9	83.1 - 90.6	22.4	18.5	14	12.5	10.5	8.9	8.4	7.7	7.3	6.7	6.4	6	5.7	5.3	5.1	4.8	4.6	4.3	4.1	3.9	3.7	3.5	USt
	13.1 → 50.5	89.7 - 98.4	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 P_{+}
246	13.1 → 55.1	96 - 104	27.1	22.3	16.9	13.8	12.2	10.4	9.8	9	8.5	7.8	7.5	6.9	6.6	6.2	5.9	5.5	5.3	5	4.8	4.5			USt
	13.1 → 59.4	103.3 - 111.5	27.6	24.5	18.5	14.7	13.5	11.4	10.8	9.9	9.3	8.6	8.2	7.6	7.3	6.8	6.5	6.1	5.8	5.5	5.3	5			USt P_{+}
230	13.1 → 65.6	111.1 - 119.5	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
	13.1 → 68.9	117.1 - 126	27.6	27.6	22.1	17.4	14.2	13.1	12.3	11.3	10.6	9.8	9.3	8.7	8.3	7.7	7.4	6.9	6.6	6.2					USt P_{+}
213	13.1 → 69.6	118 - 126.9	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
	13.1 → 71.5	122.3 - 131.7	27.6	27.6	23.2	18.4	15	13.8	13	11.9	11.3	10.4	9.9	9.2	8.8	8.2	7.9	7.4							USt P_{+}
197	13.1 → 70.2	122.2 - 131.9	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
	13.1 → 74.1	128.4 - 138.5	27.6	27.6	24.3	19.4	15.9	13.8	13.8	12.8	12.1	11.2	10.7	9.9	9.5	8.9									USt P_{+}
180	13.1 → 71.9	130.5 - 141.7	27.6	27.6	23.8	19.3	16.1	13.8	13.8	13.2	12.5	11.7	11.2	10.5											USt
	13.1 → 75.8	135.7 - 147.1	27.6	27.6	25.2	20.3	16.9	14.4	13.8	13.7	13.1	12.1	11.6	10.9											USt P_{+}
164	13.1 → 73.2	132.7 - 144.4	27.6	27.6	24.2	19.6	16.4	14	13.8	13.4	12.8	11.9													USt
	13.1 → 73.2	136.3 - 148.6	27.6	27.6	24.3	19.9	16.8	14.4	13.8	13.8	13.2	12.4													USt P_{+}
148	13.1 → 73.8	134 - 145.5	27.6	27.6	24.5	19.9	16.6	14.1	13.8	13.6															USt
	13.1 → 73.8	135.7 - 147.6	27.6	27.6	24.5	20	16.8	14.3	13.8	13.8															USt P_{+}
131	13.1 → 74.8		27.6	27.6	24.8	20.1	16.8	14.3																	USt
	13.1 → 74.8		27.6	27.6	24.9	20.5	17.3	14.8																	USt P_{+}
115	13.1 → 75.1		27.6	27.6	25	20.3	17																		USt
	13.1 → 75.1		27.6	27.6	25.2	20.8	17.6																		USt P_{+}
98	13.1 → 73.8		27.6	27.6	24.4	19.8																			USt
	13.1 → 74.1		27.6	27.6	24.8	20.4																			USt P_{+}

$$U_{L1} = U_{L2} - 1.58 \text{ USt max.}$$

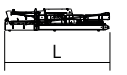
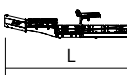
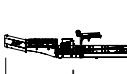
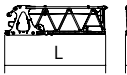
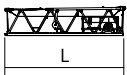
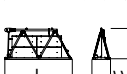
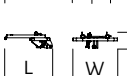


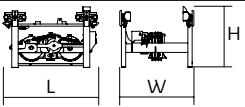
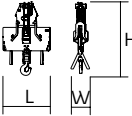
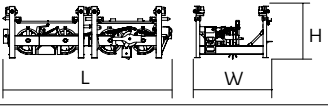
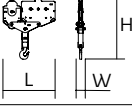
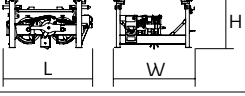
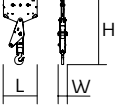
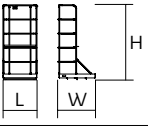
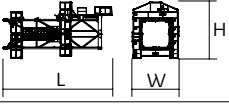
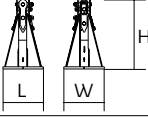
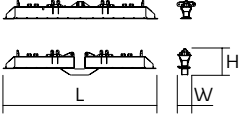
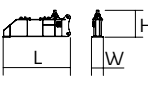
	(ft)		56	66	82	98	115	131	138	148	154	164	171	180	187	197	203	213	220	230	236	246	253	262	ft
	27.6 USt	13.8 USt																							
262	10.8 → 47.6	85.7 - 87.3	22.9	19	14.5	11.9	9.8	8.3	7.8	7.1	6.7	6.1	5.8	5.3	5.1	4.7	4.5	4.1	3.9	3.7	3.5	3.3	3.1	2.9	USt
	10.8 → 51.5	92.3 - 94.8	25.2	20.8	15.9	13.2	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 P_{+}
246	10.8 → 55.8	98.8 - 100.5	27.6	22.8	17.4	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
	10.8 → 60.4	106.2 - 107.8	27.6	25	19.1	15.2	12.9	10.9	10.2	9.3	8.8	8.1	7.6	7.1	6.7	6.2	5.9	5.5	5.3	4.9	4.7	4.4			USt P_{+}
230	10.8 → 66.9	114.5 - 116.2	27.6	27.6	21.2	16.8	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
	10.8 → 70.2	120.8 - 122.5	27.6	27.6	22.7	18	14.7	12.6	11.9	10.8	10.2	9.4	8.9	8.2	7.8	7.2	6.9	6.4	6.2	5.8					USt P_{+}
213	10.8 → 71.2	122 - 123.8	27.6	27.6	23	18.2	14.9	12.8	12	11	10.3	9.5	9	8.3	7.9	7.4	7	6.5							USt
	10.8 → 73.2	126.5 - 128.5	27.6	27.6	23.8	19	15.6	13.4	12.6	11.5	10.9	10	9.5	8.8	8.4	7.8	7.5	7							USt P_{+}
197	10.8 → 71.9	126.5 - 128.7	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
	10.8 → 75.5	133 - 135.2	27.6	27.6	24.9	20	16.6	14	13.4	12.4	11.7	10.8	10.3	9.5	9.1	8.5									USt P_{+}
180	10.8 → 73.5	135.5 - 138.2	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
	10.8 → 77.4	140.8 - 143.5	27.6	27.6	25.8	21	17.5	15	14.1	13.3	12.7	11.8	11.2	10.5											USt P_{+}
164	10.8 → 74.5	137.8 - 140.6	27.6	27.6	24.8	20.3	17	14.6	13.8	13	12.4	11.5													USt
	10.8 → 74.5	141.8 - 145	27.6	27.6	24.9	20.5	17.4	15	14.2	13.4	12.8	12													USt P_{+}
148	10.8 → 75.5	139.2 - 142	27.6	27.6	25.1	20.5	17.2	14.8	13.9																USt
	10.8 → 75.5	141 - 147.6	27.6	27.6	25.2	20.6	17.4	15	14.2																USt P_{+}
131	10.8 → 76.1		27.6	27.6	25.4	20.7	17.4	14.9																	USt
	10.8 → 76.1		27.6	27.6	25.6	21.1	17.9	15.5																	USt P_{+}
115	10.8 → 76.8		27.6	27.6	25.6	20.9	17.6																		USt
	10.8 → 76.8		27.6	27.6	25.8	21.4	18.2																		USt P_{+}
98	10.8 → 75.1		27.6	27.6	25.1	20.5																			USt
	10.8 → 75.5		27.6	27.6	25.4	21.1																			USt P_{+}

$$U_{L1} = U_{L2} - 0.71 \text{ USt max.}$$

Dimensions and weight

Slewing crane part:  262 ft -  132 HPL™
 x 9
 x 8

Slewing crane part		L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Counter-jib	  (A) (B)	39 39	7.2 7.2	8.3 8.3	29,983 29,101
	  (A) (B) 132 HPL™	62.9 53	18.7 18.7	12.9 12.9	33,290 32,408
	  (A) (B) 132 HPL™	62.9 53	18.7 18.7	12.9 12.9	44,677 43,795
	  (A) (B) 180 HPL™ GH	62.9 53	22 22	12.9 12.9	34,392 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	  H	L	W		Ultra View 11 7.5 8.2 6,614
Towerhead	  H	L	W		12,45 m 9.1 8.1 9.5 24,912
	  H	L	W		
	  H	L	W		23.1 8.1 9.5 31,526
Jib section	  H ①	L	W		27.8 5.2 8.1 14,771
	  H ②	L	W		34 7.3 8.2 14,330
	  H ③ ④	L	W		34 33.7 4.5 4.5 8.2 8 7,937 6,790
	  H ⑤ ⑦ ⑨	L	W		33.6 33.7 33.4 4.5 4.5 4.5 8 6.7 5.7 4,960 3,329 2,293
	  H ⑥ ⑧	L	W		17.4 17.1 4.5 4.5 7.8 6.5 2,425 1,455
	  H ⑩	L	W		16.7 4.5 5.3 992
	  H ⑪	L	W		17 4.5 8 3,660
	  H	L	W		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
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 8.2 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		2.5 3	2.5 3	4.2 4.9	1,025 2,072
Cross girder		29.9 29.9	3.7 2.5	3.6 4.9	11,607 12,004
1/2 Cross girder		18.6 18.7	3.2 3.2	6.3 7.4	10,406 14,176
Cross girder		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	
															

	IEC 60204-32		kVA
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		Total ballast weight		Travelling
	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		



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