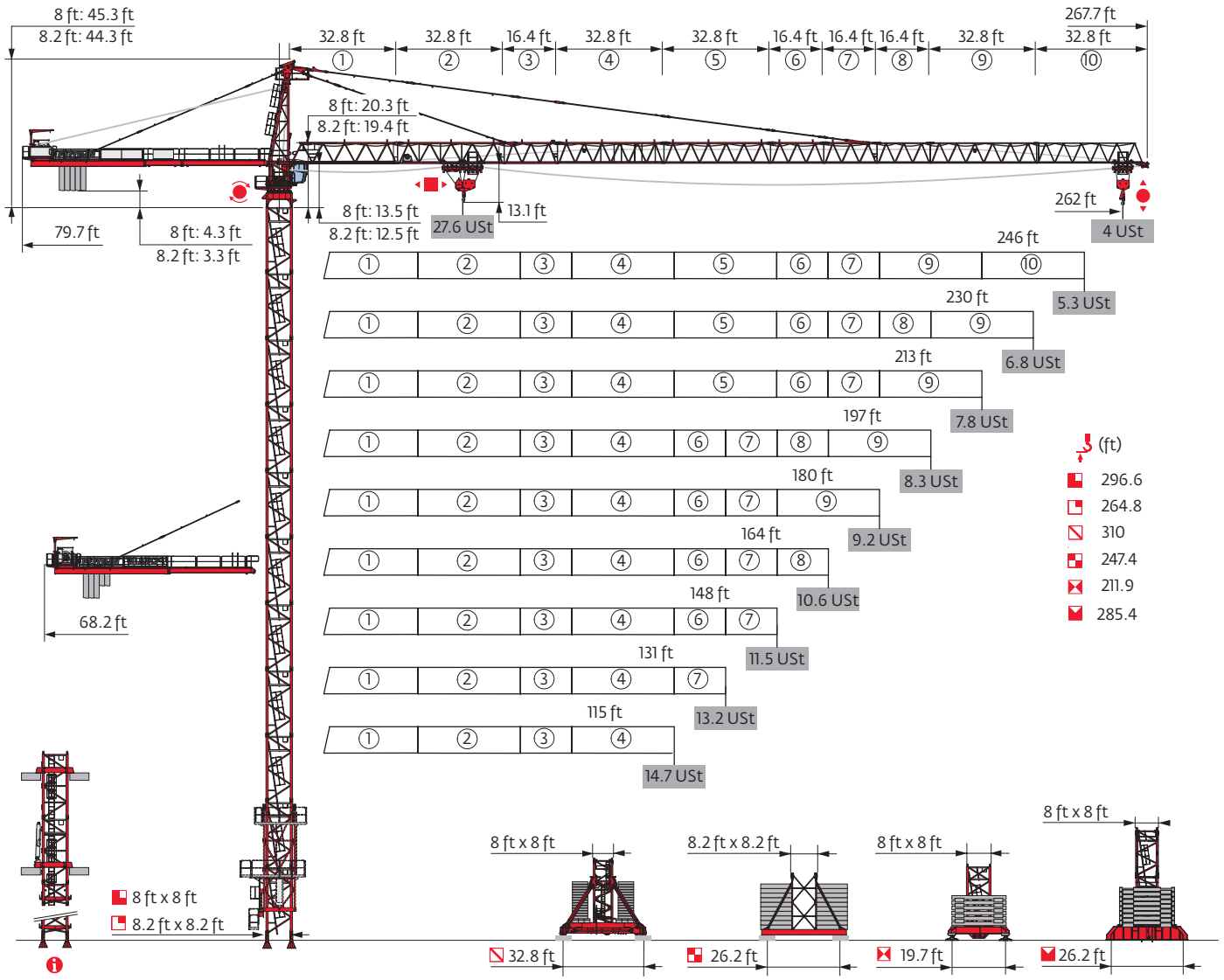
POTAIN®

MD 509 M25



Potain Plus

Power Control

Top Tracing 3

Top Site

ASCE 7-10

Values have been rounded.

Mast - Reactions

8 ft - P 802B

(ft)		115	131	148	164	180	197	213	230	246	262
(ft)		247.4	247.4	247.4	247.4	247.4	241.8	241.8	241.8	236.2	219.8
/P+ (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)	●	256	261	264	257	259	254	256	256	240	227
	■	394	402	406	400	405	396	393	399	390	338
F3 (USt)	●	180	181	183	173	177	171	171	169	154	141
	■	332	336	338	330	338	327	321	326	317	265

8 ft - P 854A

(ft)		115	131	148	164	180	197	213	230	246	262
(ft)		296.6	296.6	296.6	296.6	296.6	296.6	296.6	291	291	291
/P+ (ft)		296.6	296.6	296.6	296.6	296.6	296.6	296.6	291	291	291
10.9 ft		0	0	0	0	0	0	0	1	1	1
16.4 ft		18	18	18	18	18	18	18	17	17	17
F2 (USt)	●	307	312	316	308	310	309	312	309	304	311
	■	575	582	589	580	589	593	590	581	585	584
F3 (USt)	●	220	220	222	213	217	214	214	211	206	211
	■	501	505	509	499	509	511	505	496	501	497

8 ft - JM 850 -

(ft)		115	131	148	164	180	197	213	230	246	262
(ft)		310	310	310	310	310	310	310	310	310	310
/P+ (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)	●	171	170	172	171	171	171	173	174	172	176
	■	245	248	250	246	250	251	249	252	254	254

8 ft - ZX 6830 -

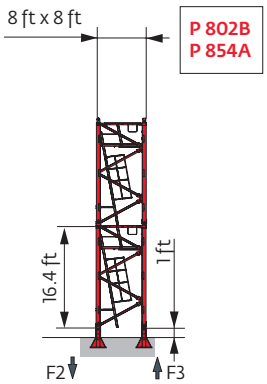
(ft)		115	131	148	164	180	197	213	230	246	262
(ft)		211.9	206.7	206.7	211.9	206.7	211.9	211.9	211.9	211.9	211.9
/P+ (ft)		211.9	206.7	206.7	211.9	206.7	206.7	211.9	211.9	211.9	211.9
10.9 ft		1	2	2	1	2	1	1	1	1	1
16.4 ft		12	11	11	12	11	12	12	12	12	12
F1 (USt)	●	161	160	161	161	159	163	162	163	160	158
	■	185	180	182	185	182	192	188	192	196	192

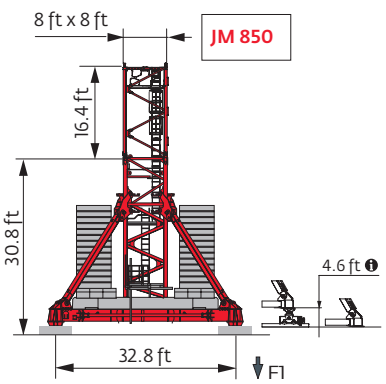
8 ft - ZY 800 -

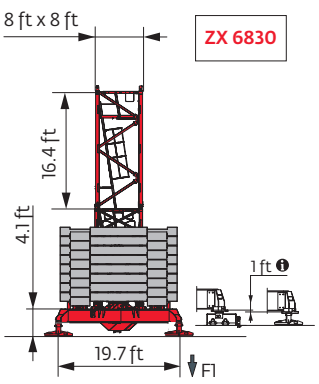
(ft)		115	131	148	164	180	197	213	230	246	262
(ft)		246.4	240.8	240.8	240.8	240.8	240.8	235.2	235.2	235.2	218.8
/P+ (ft)		246.4	240.8	240.8	240.8	240.8	240.8	235.2	235.2	235.2	218.8
10.9 ft		1	2	2	2	2	2	0	0	0	0
16.4 ft		14	13	13	13	13	13	14	14	14	13
F1 (USt)	●	160	159	161	157	160	160	152	153	148	133
	■	200	197	200	195	199	202	185	189	193	163

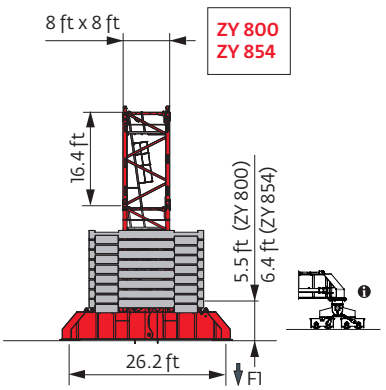
8 ft - ZY 854 -

(ft)		115	131	148	164	180	197	213	230	246	262
(ft)		279.9	285.4	285.4	285.4	285.4	279.9	285.4	285.4	279.9	279.9
/P+ (ft)		279.9	285.4	285.4	285.4	285.4	279.9	285.4	285.4	279.9	279.9
10.9 ft		1	0	0	0	0	1	0	0	1	1
16.4 ft		16	17	17	17	17	16	17	17	16	16
F1 (USt)	●	194	200	202	201	200	199	203	204	199	199
	■	267	282	285	281	285	278	286	291	286	285



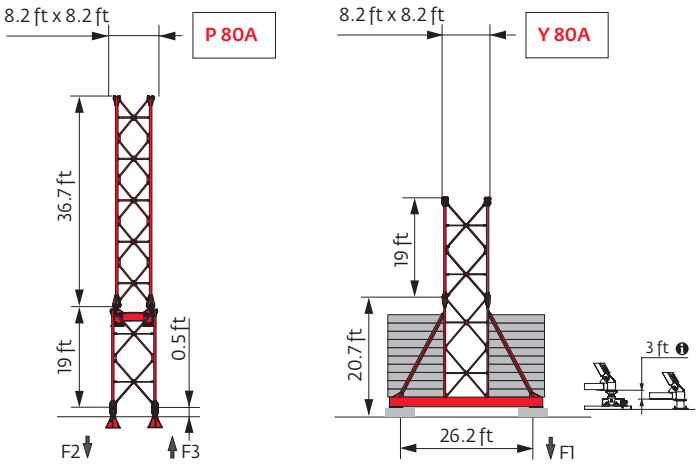






8.2 ft - P 80A											
(ft)		115	131	148	164	180	197	213	230	246	262
(ft)		264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8
/P+ (ft)		264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8
36.7 ft		1	1	1	1	1	1	1	1	1	1
19 ft		12	12	12	12	12	12	12	12	12	12
F2 (USt)	●	234	238	242	235	237	235	238	238	232	237
	■	330	337	341	336	341	344	342	347	352	348
F3 (USt)	●	154	154	156	147	150	148	147	145	140	142
	■	264	267	269	261	268	270	265	269	273	267

8.2 ft - Y 80A -											
(ft)		115	131	148	164	180	197	213	230	246	262
(ft)		247.4	247.4	247.4	247.4	247.4	247.4	247.4	247.4	247.4	247.4
/P+ (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)	●	126	129	131	126	129	129	128	128	126	128
	■	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.

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

Anchorages

Base ballast

(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

(ft)

(USt) / 8 ft - ZY 800 -

(ft)	115	131	148	164	180	197	213	230	246	262
246.4	172									
240.8	158.7	158.7	158.7	145.5	158.7	158.7				
235.2	145.5	145.5	145.5	132.3	145.5	132.3	132.3	132.3	132.3	
218.8	105.8	105.8	105.8	92.6	105.8	105.8	92.6	92.6	105.8	92.6
202.4	79.4	79.4	79.4	66.1	79.4	79.4	79.4	66.1	66.1	79.4
186	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	79.4
169.6	66.1	66.1	66.1	52.9	66.1	66.1	66.1	66.1	66.1	66.1
153.2	52.9	52.9	52.9	52.9	66.1	66.1	66.1	66.1	66.1	66.1
136.8	52.9	52.9	52.9	39.7	66.1	66.1	66.1	66.1	66.1	66.1
120.4	52.9	52.9	52.9	39.7	66.1	66.1	66.1	66.1	66.1	66.1
104	52.9	52.9	52.9	39.7	66.1	66.1	66.1	66.1	66.1	66.1
87.6	52.9	52.9	52.9	39.7	66.1	66.1	66.1	66.1	66.1	66.1

(ft)

(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

(ft)

(USt) / 8 ft - ZX 6830 -

(ft)	115	131	148	164	180	197	213	230	246	262
211.9	188.5			177.5		188.5	177.5	177.5	188.5	177.5
206.7	177.5	177.5	177.5	155.4	177.5	166.5	166.5	166.5	166.5	166.5
190.3	144.4	133.4	133.4	122.4	133.4	133.4	133.4	133.4	133.4	144.4
173.9	133.4	133.4	122.4	122.4	122.4	122.4	122.4	122.4	122.4	122.4
157.5	122.4	111.3	111.3	111.3	122.4	122.4	122.4	122.4	122.4	122.4
141.1	111.3	111.3	111.3	100.3	111.3	111.3	122.4	111.3	111.3	111.3
124.7	111.3	111.3	111.3	100.3	111.3	111.3	111.3	111.3	111.3	111.3
108.3	111.3	111.3	111.3	100.3	111.3	111.3	111.3	111.3	111.3	111.3
91.9	111.3	111.3	111.3	100.3	111.3	111.3	111.3	111.3	111.3	111.3
75.5	111.3	111.3	111.3	100.3	111.3	111.3	111.3	111.3	111.3	111.3

(ft)

(USt) / 8 ft - ZY 854 -

(ft)	115	131	148	164	180	197	213	230	246	262
285.4		238.1	238.1	238.1	238.1		238.1	238.1		
279.9	238.1	224.9	224.9	224.9	224.9	238.1	224.9	224.9	238.1	224.9
263.5	198.4	198.4	198.4	185.2	198.4	198.4	185.2	185.2	185.2	185.2
247.1	158.7	158.7	158.7	145.5	158.7	158.7	145.5	145.5	158.7	145.5
230.6	132.3	119.1	119.1	119.1	119.1	119.1	119.1	119.1	119.1	105.8
214.2	92.6	92.6	92.6	79.4	92.6	92.6	79.4	79.4	92.6	79.4
197.8	66.1	66.1	66.1	52.9	66.1	66.1	66.1	66.1	66.1	66.1
181.4	66.1	52.9	52.9	52.9	52.9	66.1	66.1	66.1	66.1	66.1
165	52.9	52.9	52.9	39.7	52.9	52.9	52.9	52.9	52.9	66.1
148.6	52.9	39.7	39.7	39.7	52.9	52.9	52.9	52.9	52.9	52.9
132.2	39.7	39.7	39.7	39.7	52.9	52.9	52.9	52.9	52.9	52.9
115.8	39.7	39.7	39.7	39.7	52.9	52.9	52.9	52.9	52.9	52.9
99.4	39.7	39.7	39.7	39.7	52.9	52.9	52.9	52.9	52.9	52.9

(ft)

Load curves

(ft)	49	56	66	82	89	98	115	121	131	148	154	164	180	187	197	213	220	230	246	253	262	ft
27.6 USt / 13.8 USt																						
262	12.1 → 50.4	90.9 - 99.9	27.6	24.5	20.5	15.6	14.2	13.8	11.8	11	10.1	8.8	8.3	7.7	6.8	6.5	6.1	5.5	5.3	4.9	4.4	4.2	3.8	USt
	12.1 → 53.6	98.2 - 108.3	27.6	26.4	22.3	17.2	15.7	13.7	12.9	12.1	11	9.6	9.1	8.4	7.5	7.1	6.7	6	5.7	5.4	4.8	4.5	4	USt P+
246	12.1 → 54.2	99.1 - 108.4	27.6	25.9	22.5	17.3	15.8	13.9	12.9	12.2	11.1	9.7	9.2	8.6	7.6	7.3	6.8	6.1	5.8	5.5	4.9	USt		
	12.1 → 56.3	103.1 - 113.1	27.6	27.6	23.5	18.2	16.6	14.6	13.6	12.8	11.7	10.2	9.7	9.1	8.1	7.7	7.2	6.5	6.3	5.9	5.3	USt P+		
230	12.1 → 61.2	111.5 - 121.3	27.6	27.6	25.6	19.9	18.2	16.1	13.8	13.7	12.6	11	10.5	9.7	8.7	8.3	7.8	7	6.7	6.4	USt			
	12.1 → 62.6	114.9 - 125.3	27.6	27.6	26.2	20.5	18.8	16.6	13.8	13.8	13.1	11.5	10.9	10.2	9.1	8.7	8.2	7.5	7.2	6.8	USt P+			
213	12.1 → 62.5	113.4 - 122.2	27.6	27.6	26	20.3	18.6	16.4	13.8	13.8	12.8	11.2	10.6	9.9	8.8	8.5	7.9	7.2	USt					
	12.1 → 64.6	118.5 - 128.5	27.6	27.6	27	21.2	19.4	17.2	14.3	13.8	13.5	11.9	11.3	10.5	9.4	9.1	8.6	7.8	USt P+					
197	12.1 → 62	112.1 - 122	27.6	27.6	25.8	20	18.3	16.1	13.8	13.8	12.7	11.1	10.6	9.8	8.8	8.4	7.9	USt						
	12.1 → 62.5	115.5 - 125.1	27.6	27.6	26.1	20.6	18.8	16.7	13.9	13.8	13.1	11.5	11	10.2	9.2	8.8	8.3	USt P+						
180	12.1 → 63.9	114.9 - 125	27.6	27.6	26.7	20.6	18.9	16.6	13.8	13.8	13	11.4	10.8	10.1	9	USt								
	12.1 → 63.9	116.2 - 126.2	27.6	27.6	26.7	20.7	19	16.8	14	13.8	13.2	11.6	11	10.3	9.2	USt P+								
164	12.1 → 64.9	116.9 - 127	27.6	27.6	27	21	19.2	17	14.1	13.8	13.3	11.6	11.1	10.3	USt									
	12.1 → 65	119.1 - 128.8	27.6	27.6	27	21.3	19.5	17.2	14.4	13.8	13.5	11.9	11.3	10.6	USt P+									
148	12.1 → 65.1	115.9 - 125.8	27.6	27.6	27	21	19.2	16.9	13.9	13.8	13.1	11.5	USt											
	12.1 → 65.1	115.9 - 125.8	27.6	27.6	27	21	19.2	16.9	13.9	13.8	13.1	11.5	USt P+											
131	12.1 → 64.9	116.6 - 126.4	27.6	27.6	27	20.9	19.1	16.8	14	13.8	13.2	USt												
	12.1 → 64.9	116.6 - 126.4	27.6	27.6	27	20.9	19.1	16.8	14	13.8	13.2	USt P+												
115	12.1 → 65.6		27.6	27.6	27.6	21.2	19.5	17.1	14.1	USt														
	12.1 → 65.6		27.6	27.6	27.6	21.2	19.5	17.1	14.1	USt P+														

= - 1.73 USt max.

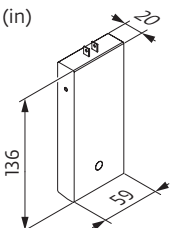
(ft)	49	56	66	82	89	98	115	121	131	148	154	164	180	187	197	213	220	230	246	253	262	ft
27.6 USt / 13.8 USt																						
262	8.2 → 51.3	94 - 96.1	27.6	25.1	21	16.2	14.8	13.4	11.1	10.4	9.4	8.1	7.7	7.1	6.2	5.9	5.5	4.8	4.6	4.3	3.7	3.5	3.2	USt
	8.2 → 54.6	101.4 - 104.1	27.6	26.9	22.9	17.8	16.3	14.3	12.2	11.4	10.4	8.9	8.4	7.8	6.8	6.5	6	5.3	5.1	4.7	4.1	3.9	3.4	USt P+
246	8.2 → 55.2	102.4 - 105	27.6	26.5	23.1	17.9	16.4	14.5	12.4	11.6	10.6	9.2	8.7	8	7.1	6.7	6.2	5.6	5.3	4.9	4.4	USt		
	8.2 → 57.3	106.6 - 109.6	27.6	27.6	24.1	18.7	17.2	15.2	13.1	12.2	11.2	9.7	9.2	8.5	7.6	7.2	6.7	6	5.7	5.3	4.8	USt P+		
230	8.2 → 62.3	115.3 - 118.2	27.6	27.6	26.1	20.5	18.8	16.7	13.9	13.4	12.2	10.6	10	9.3	8.2	7.9	7.3	6.6	6.3	5.9	USt			
	8.2 → 63.7	119 - 122.1	27.6	27.6	26.8	21.1	19.4	17.2	14.4	13.8	12.7	11.1	10.5	9.8	8.7	8.3	7.8	7	6.8	6.4	USt P+			
213	8.2 → 63.6	117.3 - 119.1	27.6	27.6	26.6	20.9	19.2	17	14.1	13.5	12.4	10.8	10.2	9.5	8.4	8	7.5	6.8	USt					
	8.2 → 65.8	122.8 - 125.2	27.6	27.6	27.6	21.8	20	17.8	14.9	14	13.1	11.4	10.9	10.1	9	8.7	8.1	7.4	USt P+					
197	8.2 → 63.1	116.1 - 118.9	27.6	27.6	26.4	20.6	18.8	16.7	14	13.4	12.3	10.7	10.2	9.4	8.4	8	7.5	USt						
	8.2 → 63.6	119.7 - 121.9	27.6	27.6	26.6	21.1	19.4	17.2	14.4	13.8	12.7	11.1	10.5	9.8	8.7	8.4	7.9	USt P+						
180	8.2 → 65	119 - 121.8	27.6	27.6	27.3	21.2	19.4	17.2	14.4	13.8	12.6	11	10.4	9.7	8.6	USt								
	8.2 → 65	120.4 - 123	27.6	27.6	27.3	21.3	19.5	17.4	14.6	13.8	12.8	11.2	10.6	9.9	8.8	USt P+								
164	8.2 → 66.1	120.9 - 123.8	27.6	27.6	27.6	21.6	19.8	17.5	14.6	13.8	12.9	11.2	10.6	9.9	USt									
	8.2 → 66.3	123.4 - 125.5	27.6	27.6	27.6	21.8	20	17.8	15	14	13.1	11.5	10.9	10.1	USt P+									
148	8.2 → 66.3	119.5 - 122.6	27.6	27.6	27.6	21.6	19.7	17.4	14.5	13.8	12.7	11.1	USt											
	8.2 → 66.3	119.5 - 122.6	27.6	27.6	27.6	21.6	19.7	17.4	14.5	13.8	12.7	11.1	USt P+											
131	8.2 → 66.1	120.8 - 123.2	27.6	27.6	27.6	21.5	19.7	17.4	14.6	13.8	12.8	USt												
	8.2 → 66.1	120.8 - 123.2	27.6	27.6	27.6	21.5	19.7	17.4	14.6	13.8	12.8	USt P+												
115	8.2 → 66.8		27.6	27.6	27.6	21.8	20	17.7	14.7	USt														
	8.2 → 66.8		27.6	27.6	27.6	21.8	20	17.7	14.7	USt P+														

= - 0.52 USt max.

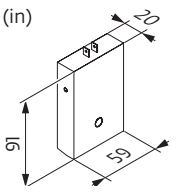
Jib weight & counter-jib ballast

	(lb) (+/- 5%)			100 LVF / 132 HPL™			180 HPL™ 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



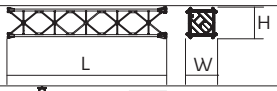
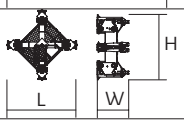
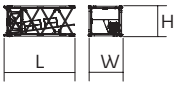
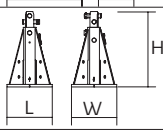
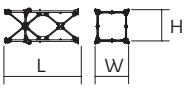
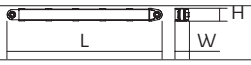
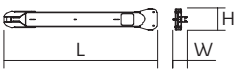
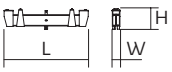
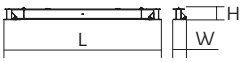
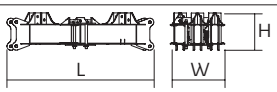
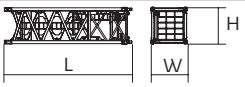
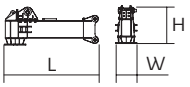
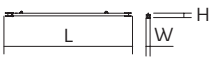
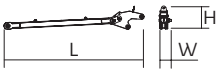
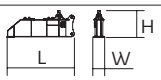
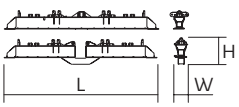
Dimensions and weight

Slewing crane part: 262 ft - - 100 LVF

x 13

x 11

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	8 ft	12.5	14	9.7	20,349
	8.2 ft	12.5	14	8.7	18,805
Hoisting winch (+ rope)	100 LVF	11.2	5.2	5.7	9,016
	132 HPL™	12.4	6.1	6.2	11,387
	180 HPL™ GH	15.8	6.3	6.5	19,279
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	27.6 USt	5.9	7.3	4.7	1,587
		3.9	1.4	7.4	1,973
Trolley	27.6 USt	13.5	7.2	3.8	2,635
Trolley	13.8 USt	7	7.2	3.8	1,422
Pulley block	27.6 USt	6	1.1	7.7	1,995
	13.8 USt	3.9	0.7	6.4	992
Crane tower					
Telescopic cage T 851	8 ft	36.7	15.9	19	34,723
Telescopic cage	8.2 ft	24.3	12	19.1	13,669

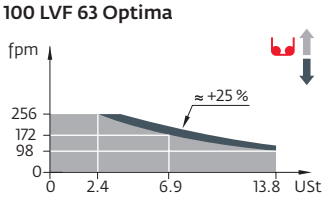
			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Slider		⍁8.2 ft	36.4	6.9	6.9	15,653
Slider base		⍁8.2 ft	7.7	5.2	7.7	13,140
K 85/KR 84B2 KM 850.10B KM 850.14B K 849A KR 849A KMT 849A KRMT 849A K 85/KR 84A2 KMT 850.10A KMT 850.14A KRMT 849C		⍁8 ft	33.6 33.9 33.9 17.2 17.2 17.2 17.2 17.2 17.5 17.5 11.7	8.3 8.3 8.3 8.3 8.3 8.4 8.4 8.3 8.3 8.3 8.4	8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.2 8.2 8.2 8.3	21,242 22,201 24,670 7,496 9,458 6,945 9,017 12,236 12,015 13,206 7,066
R 87 R 86 R 85		⍁8.2 ft	21 21 21	9.5 9.5 9.5	9.5 9.5 9.5	9,392 8,422 8,157
Fixing angles		P 802B P 854A P 80A	2.5 3 2.6	2.5 3 2.6	4.2 4.9 4	1,025 2,072 4,343
Basic mast unit		Y 80A	19.7	9.8	9.8	16,314
Struts		Y 80A	18	1.4	1.2	1,764
1/2 Side member		Y 80A	18.4	3.8	2	2,205
Side member		Y 80A	38.9	3.8	2	4,630
Ballast support		Y 80A	15.3	1	2.2	595
Chassis beam		Y 80A	28.2	2.3	3.8	4,409
Central cross (transport position)		JM 850	17.1	5.6	4.9	14,771
Basic mast unit		JM 850	28.7	8.2	8.2	32,187
Chassis girder		JM 850	17.1	3	5.1	7,055
Chassis ties		JM 850	23.6	0.8	1.1	551
Struts		JM 850	26.9	2.5	4.3	5,071
1/2 Cross girder		ZY 800 ZY 854	18.6 18.6	3.2 3.2	6.3 7.4	10,406 13,095
Cross girder		ZY 800 ZY 854	39.2 39	4.6 4.7	6.3 7.4	22,212 29,432
		ZX 6830	29.9 29.9	3.7 2.5	3.6 4.9	11,607 12,004

Mechanisms

480 V - 60 Hz												hp	kW	
	100 LVF 63 Optima	fpm	98	126	172	226	256	49	64	89	116	128	100	75	2,382 ft
		USt	13.8	10.4	6.9	3.4	2.4	27.6	20.7	13.8	6.9	6			
	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 (22.1 USt)		0 → 328 (13.8 USt)		0 → 361 (6.9 USt)	10	7.4	
	RVF 173 Optima+	rpm	0 → 0.9										3 x 10	3 x 7.5	

IEC 60204-32	kVA	
480 V (+6% -10%) 60 Hz	100 LVF : 117 → 77 kVA 132 HPL™ : 142 → 90 kVA 180 HPL™GH : 181 → 109 kVA	

100 LVF 63 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
- 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

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