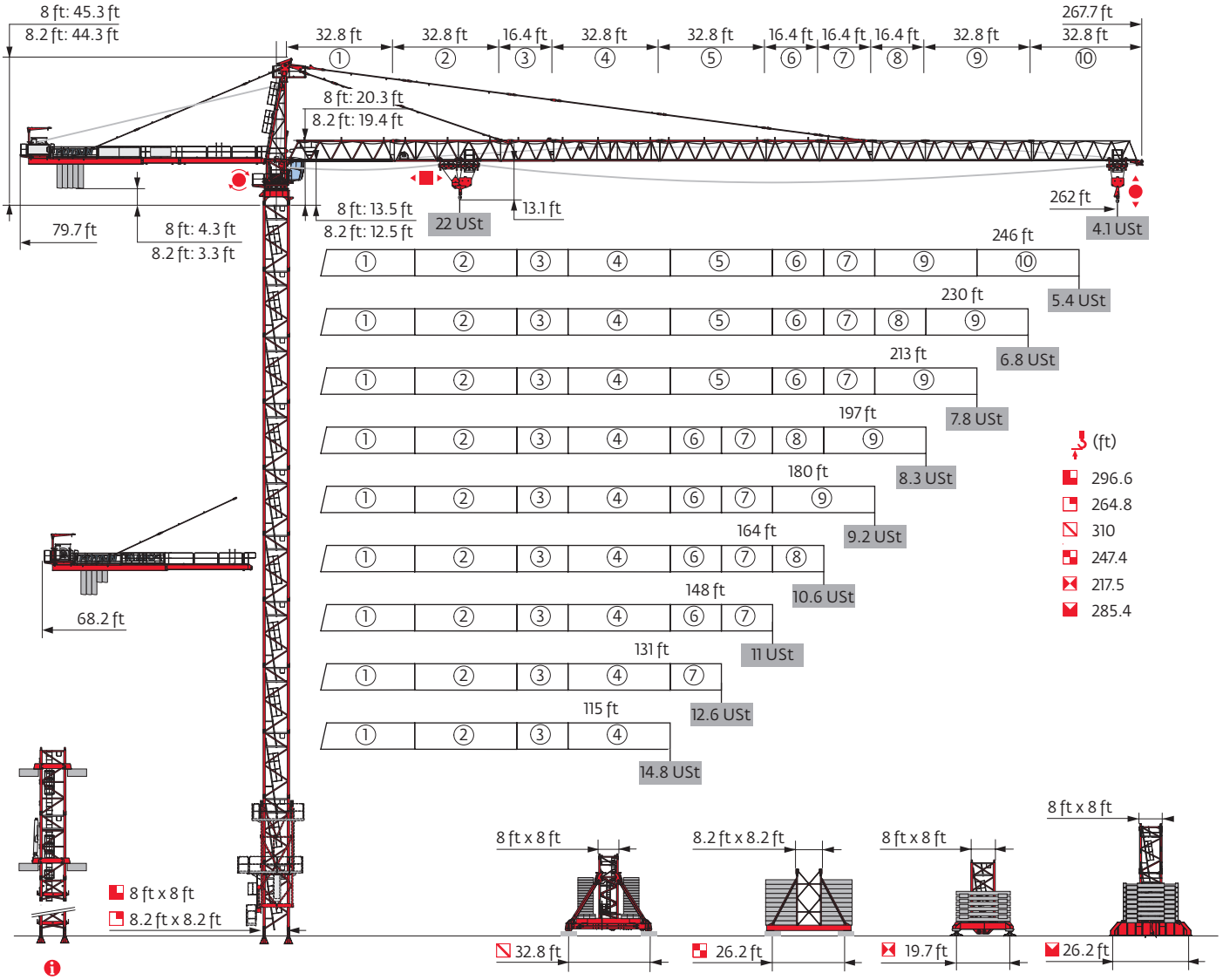
POTAIN®

MD 509 M20



Potain Plus

Power Control

Top Site

Top Tracing 3

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)	●	249	256	256	252	252	251	250	252	236	224
	■	394	402	405	400	405	396	393	399	390	338
F3 (USt)	●	176	179	177	171	173	170	167	167	153	141
	■	333	336	338	330	338	327	321	326	318	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	296.6	291	291
/P+ (ft)		296.6	296.6	296.6	296.6	296.6	296.6	296.6	296.6	291	291
10.9 ft		0	0	0	0	0	0	0	0	1	1
16.4 ft		18	18	18	18	18	18	18	18	17	17
F2 (USt)	●	299	306	306	302	303	304	304	308	298	306
	■	574	582	589	580	589	593	589	596	585	584
F3 (USt)	●	215	217	216	209	212	212	209	212	204	209
	■	502	505	509	499	509	511	506	511	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)	●	167	168	168	168	167	169	170	172	170	174
	■	245	249	250	247	250	251	249	252	255	254

8 ft - ZX 6830 -

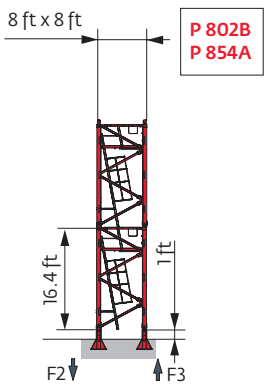
(ft)		115	131	148	164	180	197	213	230	246	262
(ft)		217.5	211.9	211.9	217.5	211.9	211.9	217.5	211.9	211.9	211.9
/P+ (ft)		217.5	211.9	211.9	217.5	211.9	211.9	211.9	211.9	211.9	211.9
10.9 ft		0	1	1	0	1	1	0	1	1	1
16.4 ft		13	12	12	13	12	12	13	12	12	12
F1 (USt)	●	161	161	161	162	160	161	161	160	158	155
	■	194	189	191	194	190	192	197	192	196	192

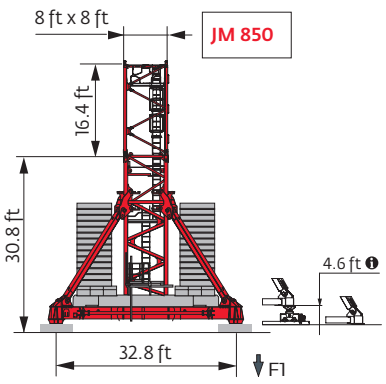
8 ft - ZY 800 -

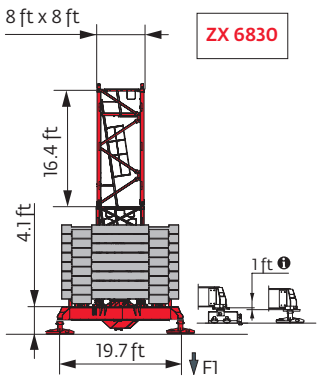
(ft)		115	131	148	164	180	197	213	230	246	262
(ft)		240.8	240.8	240.8	240.8	240.8	240.8	235.2	235.2	235.2	218.8
/P+ (ft)		240.8	240.8	240.8	240.8	240.8	240.8	224.4	235.2	235.2	218.8
10.9 ft		2	2	2	2	2	2	0	0	0	0
16.4 ft		13	13	13	13	13	13	14	14	14	13
F1 (USt)	●	152	156	157	154	156	157	147	150	146	131
	■	193	197	200	196	200	202	186	189	193	163

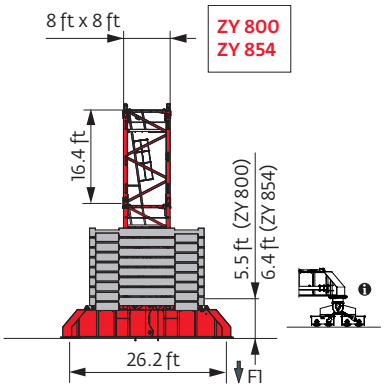
8 ft - ZY 854 -

(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)	●	189	196	197	197	196	195	199	201	195	196
	■	267	282	285	281	285	278	286	291	286	285



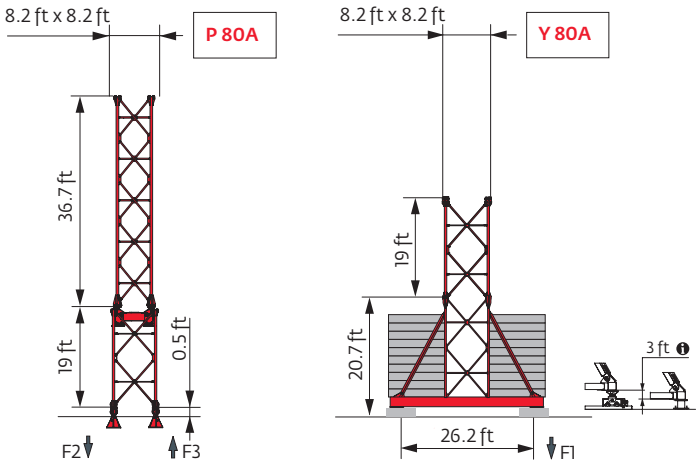






8.2 ft - P 80A											
(ft)		115	131	148	164	180	197	213	230	246	262
(ft)		264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8
/P+ (ft)		264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8
36.7 ft		1	1	1	1	1	1	1	1	1	1
19 ft		12	12	12	12	12	12	12	12	12	12
F2 (USt)	●	227	234	233	230	230	232	231	233	228	233
	■	331	338	341	336	341	344	342	347	352	348
F3 (USt)	●	149	152	150	144	147	147	143	144	139	141
	■	264	267	269	261	269	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)	●	123	127	127	124	126	127	125	126	123	126
	■	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
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	79.4	66.1	66.1	66.1	66.1	66.1	79.4	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	66.1	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	52.9	66.1	66.1	66.1	66.1	66.1	66.1
120.4	52.9	52.9	52.9	52.9	66.1	66.1	66.1	66.1	66.1	66.1
104	52.9	52.9	52.9	52.9	66.1	66.1	66.1	66.1	66.1	66.1
87.6	52.9	52.9	52.9	52.9	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
217.5	199.5			188.5			188.5			
211.9	188.5	188.5	188.5	177.5	188.5	188.5	177.5	177.5	188.5	177.5
195.5	144.4	144.4	144.4	133.4	144.4	144.4	144.4	144.4	144.4	155.4
179.1	133.4	133.4	122.4	122.4	122.4	122.4	122.4	122.4	122.4	133.4
162.7	122.4	122.4	122.4	111.3	122.4	122.4	122.4	122.4	122.4	122.4
146.3	111.3	111.3	111.3	100.3	122.4	122.4	122.4	122.4	122.4	122.4
129.9	111.3	111.3	100.3	100.3	111.3	111.3	111.3	111.3	111.3	111.3
113.5	111.3	111.3	100.3	100.3	111.3	111.3	111.3	111.3	111.3	111.3
97.1	111.3	111.3	100.3	100.3	111.3	111.3	111.3	111.3	111.3	111.3
80.7	111.3	111.3	100.3	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	238.1	224.9	238.1	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	198.4	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	39.7	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)			56	66	82	89	98	115	121	131	148	154	164	180	187	197	213	220	230	236	246	253	262	ft
	22 USt	11 USt																						
262	12.1 → 61.5	108.6 - 122	22	20.4	15.7	14.3	12.5	11	11	10.1	8.8	8.4	7.8	6.9	6.6	6.1	5.5	5.3	5	4.8	4.4	4.2	3.8	USt
	12.1 → 66.9	117.1 - 131.7	22	22	17.3	15.7	13.8	11.3	11	11	9.6	9.2	8.5	7.5	7.2	6.7	6	5.8	5.4	5.2	4.8	4.6	4.1	USt P+
246	12.1 → 67	119.8 - 133.9	22	22	17.6	16	14.1	11.6	11	11	9.9	9.4	8.7	7.7	7.4	6.9	6.2	5.9	5.6	5.4	5	USt		
	12.1 → 69.6	125 - 140	22	22	18.4	16.8	14.8	12.3	11.4	11	10.4	9.9	9.2	8.2	7.9	7.4	6.6	6.3	6	5.8	5.4	USt P+		
230	12.1 → 74.7	133.2 - 147.3	22	22	19.8	18.2	16	13.3	12.4	11.2	10.9	10.5	9.7	8.7	8.3	7.8	7	6.8	6.4	USt				
	12.1 → 77	138.4 - 153.3	22	22	20.5	18.8	16.7	13.9	13	11.8	11	11	10.2	9.1	8.8	8.2	7.5	7.2	6.8	USt P+				
213	12.1 → 76.2	135 - 149.3	22	22	20.2	18.5	16.3	13.5	12.6	11.4	11	10.6	9.9	8.8	8.5	8	7.2	USt						
	12.1 → 78.5	142.7 - 157.5	22	22	20.9	19.3	17.2	14.4	13.5	12.2	11	11	10.5	9.5	9.1	8.6	7.8	USt P+						
197	12.1 → 76.1	135.8 - 148	22	22	20.2	18.5	16.4	13.6	12.7	11.5	11	10.6	9.9	8.8	8.5	8	USt							
	12.1 → 77.2	139.1 - 152.9	22	22	20.6	18.9	16.7	13.9	13	11.8	11	11	10.2	9.2	8.8	8.3	USt P+							
180	12.1 → 77.5	137.6 - 152.2	22	22	20.6	18.9	16.6	13.8	12.9	11.7	11	10.9	10.1	9	USt									
	12.1 → 77.6	140 - 154.3	22	22	20.6	19	16.8	14	13.1	11.9	11	11	10.3	9.2	USt P+									
164	12.1 → 78.9	140 - 154.9	22	22	21.1	19.3	17	14.1	13.2	12	11	11	10.3	USt										
	12.1 → 79.6	143.1 - 158	22	22	21.3	19.5	17.3	14.4	13.5	12.3	11	11	10.6	USt P+										
148	12.1 → 78.4	139 - 147.6	22	22	20.9	19.1	16.8	13.9	13	11.8	11	USt												
	12.1 → 78.4	139 - 147.6	22	22	20.9	19.1	16.8	13.9	13	11.8	11	USt P+												
131	12.1 → 79.6		22	22	21.3	19.4	17.1	14.2	13.2	12	USt													
	12.1 → 79.6		22	22	21.3	19.4	17.1	14.2	13.2	12	USt P+													
115	12.1 → 79.6		22	22	21.3	19.5	17.2	14.2	USt															
	12.1 → 79.6		22	22	21.3	19.5	17.2	14.2	USt P+															

= - 1.67 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
	22 USt	11 USt																						
262	8.2 → 62.9	113.4 - 116.8	22	21.1	16.3	14.9	13.1	11	10.5	9.6	8.2	7.8	7.2	6.3	6	5.6	4.9	4.7	4.4	4.2	3.9	3.6	3.3	USt
	8.2 → 68.5	122.2 - 126.1	22	22	17.9	16.4	14.4	11.9	11.1	10.5	9.1	8.6	7.9	6.9	6.6	6.1	5.4	5.2	4.8	4.6	4.2	4	3.5	USt P+
246	8.2 → 68.6	125.2 - 129.2	22	22	18.2	16.6	14.8	12.3	11.5	10.8	9.4	8.9	8.2	7.3	6.9	6.4	5.7	5.4	5.1	4.9	4.5	USt		
	8.2 → 71.3	130.8 - 135.1	22	22	19	17.4	15.5	12.9	12.1	11	9.9	9.4	8.7	7.7	7.4	6.9	6.2	5.9	5.5	5.3	4.9	USt P+		
230	8.2 → 76.5	139.3 - 143.3	22	22	20.4	18.8	16.7	13.9	13	11.9	10.6	10.1	9.4	8.3	7.9	7.4	6.7	6.4	6	USt				
	8.2 → 78.9	144.9 - 149.2	22	22	21.2	19.5	17.3	14.5	13.6	12.4	11	10.6	9.9	8.8	8.4	7.9	7.1	6.8	6.5	USt P+				
213	8.2 → 78	141.2 - 145.3	22	22	20.8	19.1	16.9	14.1	13.2	12	10.8	10.3	9.5	8.5	8.1	7.6	6.9	USt						
	8.2 → 80.4	149.5 - 153.2	22	22	21.6	20	17.8	15	14.1	12.9	11.2	10.9	10.2	9.1	8.7	8.2	7.4	USt P+						
197	8.2 → 78	142.1 - 143.9	22	22	20.9	19.1	17	14.2	13.3	12.1	10.7	10.3	9.5	8.5	8.1	7.6	USt							
	8.2 → 79.2	145.7 - 148.7	22	22	21.2	19.5	17.3	14.5	13.6	12.5	11	10.6	9.9	8.8	8.4	7.9	USt P+							
180	8.2 → 79.4	143.9 - 148.1	22	22	21.2	19.5	17.3	14.4	13.5	12.3	11	10.5	9.8	8.7	USt									
	8.2 → 79.4	146.6 - 150.1	22	22	21.3	19.6	17.4	14.6	13.7	12.5	11	10.7	9.9	8.9	USt P+									
164	8.2 → 80.9	146.4 - 150.9	22	22	21.7	19.9	17.6	14.7	13.8	12.6	11	10.7	10	USt										
	8.2 → 81.5	149.7 - 153.7	22	22	21.9	20.1	17.9	15	14.1	12.9	11.2	10.9	10.2	USt P+										
148	8.2 → 80.3	145.5 - 147.6	22	22	21.5	19.7	17.4	14.5	13.6	12.4	11	USt												
	8.2 → 80.3	145.5 - 147.6	22	22	21.5	19.7	17.4	14.5	13.6	12.4	11	USt P+												
131	8.2 → 81.6		22	22	21.9	20	17.7	14.8	13.8	12.6	USt													
	8.2 → 81.6		22	22	21.9	20	17.7	14.8	13.8	12.6	USt P+													
115	8.2 → 81.6		22	22	21.9	20.1	17.9	14.8	USt															
	8.2 → 81.6		22	22	21.9	20.1	17.9	14.8	USt P+															

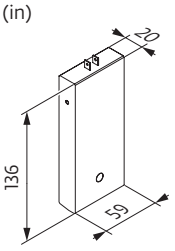
= - 0.49 USt max.

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

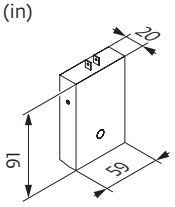
CBC - 13,228 lb

(in)



CBD - 8,818 lb

(in)

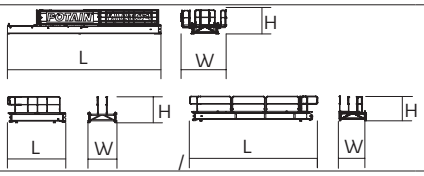
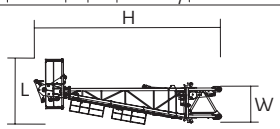
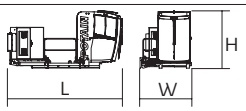
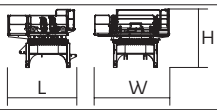
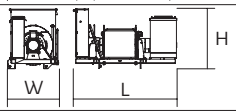
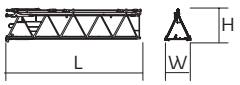
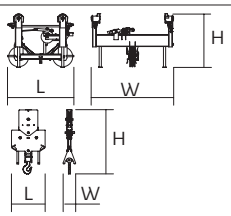
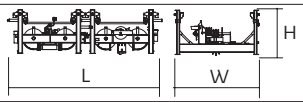
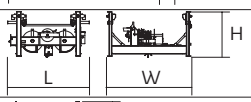
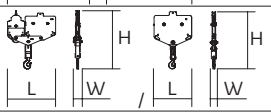
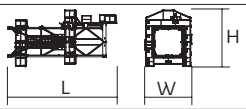
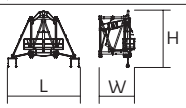


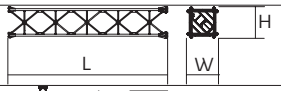
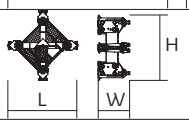
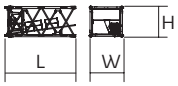
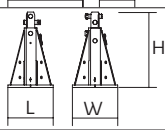
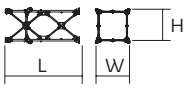
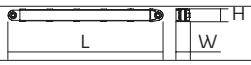
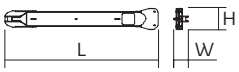
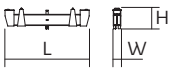
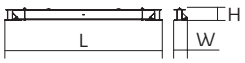
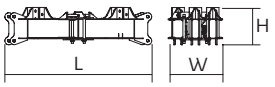
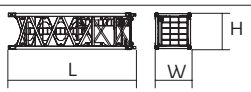
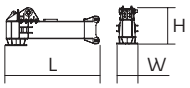
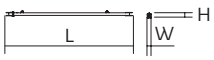
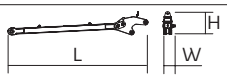
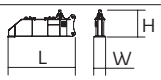
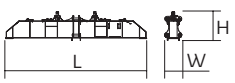
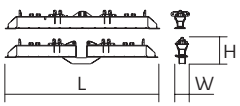
Dimensions and weight

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 12.1 26.9	10.2 6.2 6.2	5.6 5.6 5.6	8,300 2,172 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 ⍁8.2 ft	12.5 12.5	14 14	9.7 8.7	20,349 18,805
Hoisting winch (+ rope)		100 LVF 132 HPL™ 180 HPL™ GH	10.4 12.4 15.8	5.2 6.1 6.3	6.2 6.2 6.5	9,822 12,923 19,279
Jib section		① ②10 DVF ④ ⑤ ⑨ ⑩	33.7 33.7 33.6 33.6 33.4 33.2	6.6 6.2 6.2 6.2 6.2 6.2	7.8 7.4 7.3 7.3 6.5 6.4	7,066 8,223 4,729 4,001 2,800 1,764
Jib section		③ ⑥ ⑦ ⑧	17.6 17.2 17.1 17.1	6.2 6.2 6.2 6.2	7.4 7.3 7.3 6.6	3,197 2,183 2,480 1,609
Trolley + Pulley block		22 USt	5.9 3.9	7.3 1.4	5.3 7.4	1,455 1,940
Trolley		22 USt	13.5	7.2	3.8	2,635
Trolley		11 USt	7	7.2	3.8	1,422
Pulley block		22 USt 11 USt	6 3.8	1.1 0.7	7.3 5.8	1,951 981
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

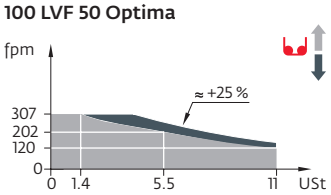
			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Slider		⍁8.2 ft	36.4	6.9	6.9	15,653
Slider base		⍁8.2 ft	7.7	5.2	7.7	13,140
K 85/KR 84B2		⍁8 ft	33.6	8.3	8.2	21,242
KM 850.10B			33.9	8.3	8.2	22,201
KM 850.14B			33.9	8.3	8.2	24,670
K 849A			17.2	8.3	8.2	7,496
KR 849A			17.2	8.3	8.2	9,458
KMT 849A			17.2	8.4	8.3	6,945
KRMT 849A			17.2	8.4	8.3	9,017
K 85/KR 84A2			17.2	8.3	8.2	12,236
KMT 850.10A			17.5	8.3	8.2	12,015
KMT 850.14A			17.5	8.3	8.2	13,206
KRMT 849C			11.7	8.4	8.3	7,066
R 87		⍁8.2 ft	21	9.5	9.5	9,392
R 86			21	9.5	9.5	8,422
R 85			21	9.5	9.5	8,157
Fixing angles		P 802B	2.5	2.5	4.2	1,025
		P 854A	3	3	4.9	2,072
		P 80A	2.6	2.6	4	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	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
		ZX 6830	29.9	3.7	3.6	11,607
			29.9	2.5	4.9	12,004

Mechanisms

480 V - 60 Hz												hp	kW	
	100 LVF 50 Optima	fpm	120	153	202	258	307	61	79	105	146	154	100	75	3,340 ft
		USt	11	8.3	5.5	2.8	1.4	22	16.5	11	5.5	4.3			
	132 HPL™ 50	fpm	164	213	299	449	612	82	108	153	230	305	132	98	3,507 ft
		USt	11	8.3	5.5	2.8	0.7	22	16.5	11	5.5	2.1			
	180 HPL™ 50 GH	fpm	210	256	333	494	640	107	131	174	271	320	180	132	3,937 ft
		USt	11	8.3	5.5	2.8	0.9	22	16.5	11	5.5	3.3			
	10 DVF 10 Optima	fpm	0 → 262 (22 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 50 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

Ref. 02D_ASCEUSt_MD509M20_2016_19-7