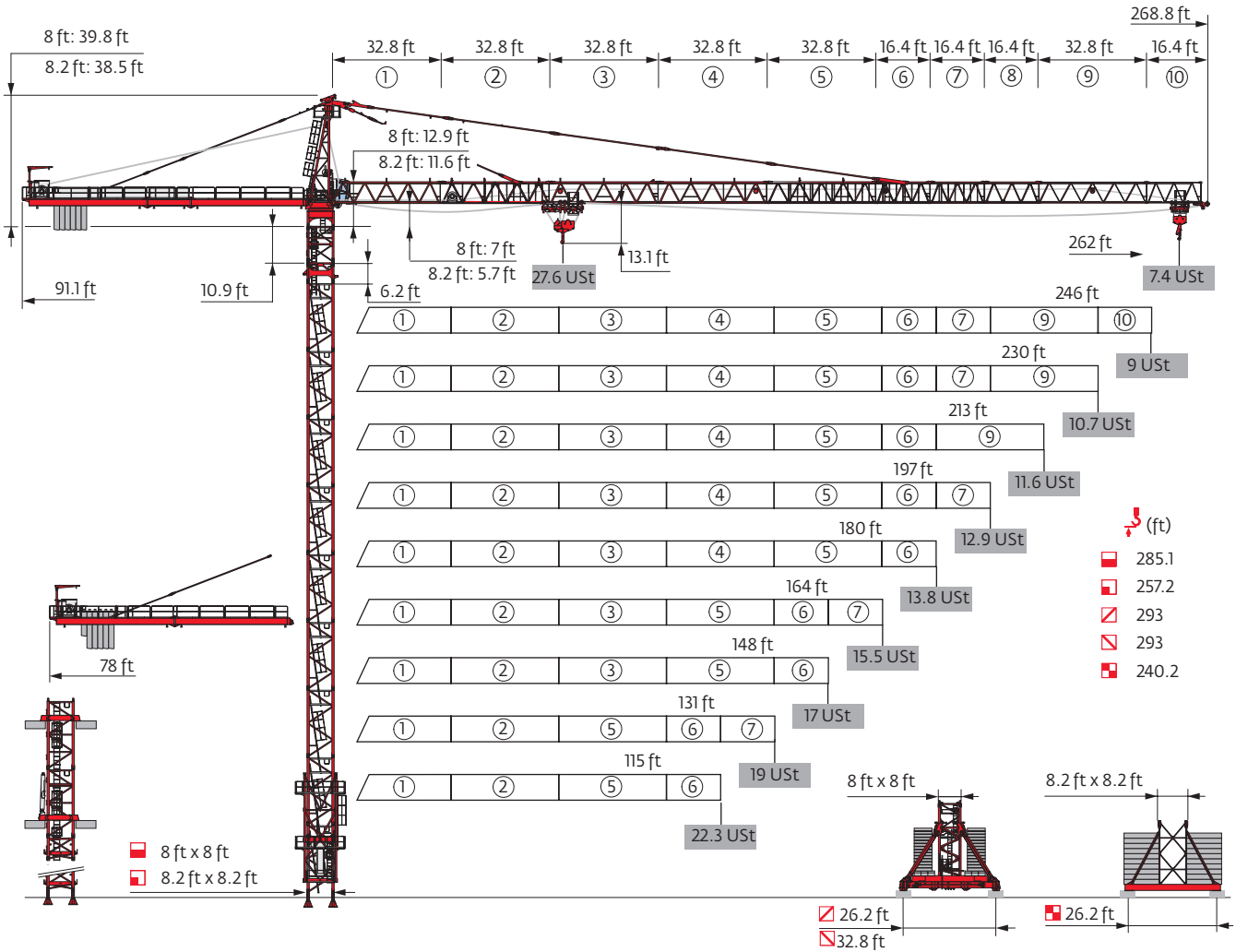


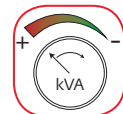
MD 689 M25



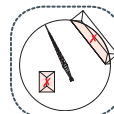
Potain Plus



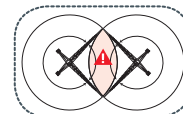
Power Control



Top Site



Top Tracing 3



CabLIFT





TCL

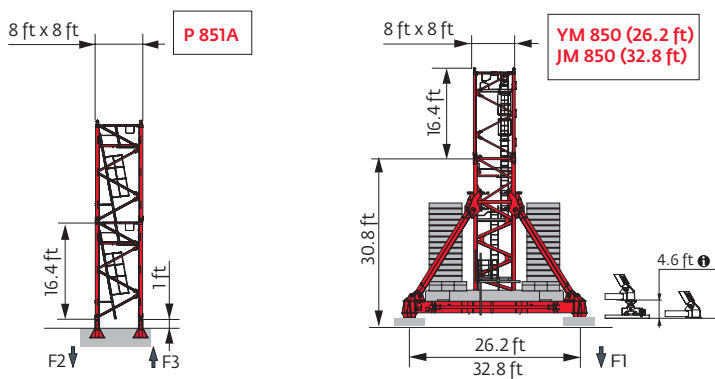


Mast - Reactions

8 ft - P 851A										
Height (ft)	115	131	148	164	180	197	213	230	246	262
Height (ft)	279.5	279.5	285.1	279.5	279.5	285.1	285.1	279.5	279.5	263.1
Height/P _r (ft)	274.3	268.7	268.7	268.7	263.1	263.1	263.1	268.7	263.1	257.9
Accessories	10.9 ft	1	1	1	1	1	1	1	1	1
	6.2 ft	1	1	1	1	1	1	1	1	1
	10.9 ft	2	2	1	2	2	1	1	2	2
	16.4 ft	15	15	16	15	15	16	16	15	14
F2 (Ust)	● 358	359	361	351	359	360	362	361	370	358
	■ 543	547	563	538	555	569	573	554	570	538
F3 (Ust)	● 247	247	245	234	243	239	241	239	247	238
	■ 446	448	461	434	452	462	467	445	460	431

8 ft - YM 850 - 										
Height (ft)	115	131	148	164	180	197	213	230	246	262
Height (ft)	287.7	287.7	293	293	287.7	293	287.7	287.7	287.7	271.3
Height/P _r (ft)	276.6	276.6	276.6	276.6	271.3	271.3	271.3	276.6	271.3	265.8
Accessories	10.9 ft	1	1	1	1	1	1	1	1	1
	6.2 ft	1	1	1	1	1	1	1	1	1
	10.9 ft	0	0	2	2	0	2	0	0	0
	16.4 ft	15	15	14	14	15	14	15	15	14
F1 (Ust)	● 206	207	213	209	205	215	206	208	214	203
	■ 271	273	286	281	275	288	275	273	282	267

8 ft - JM 850 - 										
Height (ft)	115	131	148	164	180	197	213	230	246	262
Height (ft)	287.7	287.7	293	293	287.7	293	287.7	287.7	287.7	271.3
Height/P _r (ft)	276.6	276.6	276.6	276.6	271.3	271.3	271.3	276.6	271.3	265.8
Accessories	10.9 ft	1	1	1	1	1	1	1	1	1
	6.2 ft	1	1	1	1	1	1	1	1	1
	10.9 ft	0	0	2	2	0	2	0	0	0
	16.4 ft	15	15	14	14	15	14	15	15	14
F1 (Ust)	● 166	167	173	169	165	171	166	168	174	163
	■ 215	217	228	224	219	229	219	218	225	213



 Motorized accesses of CabLIFT and TCL types: Adapted mast compositions, base ballast and reactions.

8.2 ft - P 80A

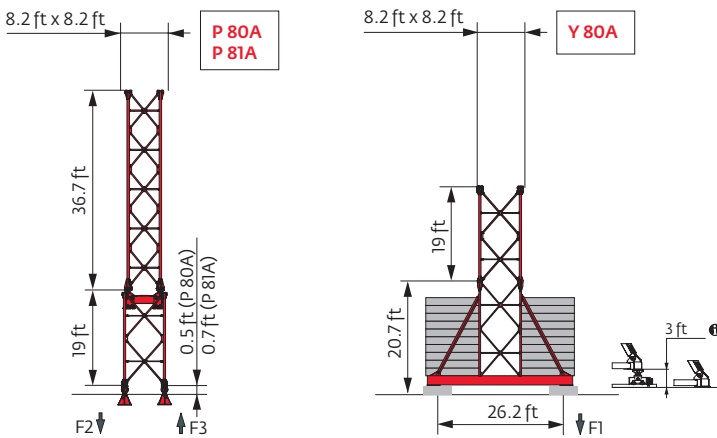
Height (ft)	115	131	148	164	180	197	213	230	246	262
\bar{r} (ft)	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	219.5	200.5
\bar{r}/P_* (ft)	219.5	219.5	219.5	219.5	-	-	-	-	200.5	-
36.7 ft	1	1	1	1	1	1	1	1	1	1
	10	10	10	10	10	10	10	10	10	9
F2 (USt)	● 250	251	253	252	246	243	245	248	250	248
	■ 179	182	181	175	189	185	189	188	202	195
F3 (USt)	● 164	163	162	159	154	147	149	150	151	151
	■ 106	108	104	95	110	104	108	104	117	112

8.2 ft - P 81A

Height (ft)	115	131	148	164	180	197	213	230	246	262
\bar{r} (ft)	257.2	257.2	257.2	257.2	257.2	257.2	257.2	238.5	238.5	238.5
\bar{r}/P_* (ft)	257.2	257.2	257.2	257.2	-	-	-	-	238.5	-
36.7 ft	1	1	1	1	1	1	1	1	1	1
	12	12	12	12	12	12	12	11	11	11
F2 (USt)	● 275	276	278	277	270	266	268	260	270	273
	■ 262	266	265	258	270	266	270	228	243	272
F3 (USt)	● 180	179	178	175	170	164	165	158	167	169
	■ 181	183	180	170	184	177	181	139	153	182

8.2 ft - Y 80A

Height (ft)	115	131	148	164	180	197	213	230	246	262
\bar{r} (ft)	240.2	240.2	240.2	240.2	240.2	240.2	240.2	221.1	221.1	221.1
\bar{r}/P_* (ft)	240.2	221.1	221.1	221.1	-	-	-	-	221.1	-
36.7 ft	1	1	1	1	1	1	1	1	1	1
	10	10	10	10	10	10	10	9	9	9
F1 (USt)	● 143	142	138	141	140	143	144	142	144	145
	■ 117	118	115	117	118	121	122	111	116	125



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.

Anchorage



Base ballast

Ust) / 8 ft - YM 850 -

ft)	115	131	148	164	180	197	213	230	246	262
293		224.9	211.6		224.9					
287.7	211.6	211.6	198.4	185.2	198.4	198.4	198.4	198.4	211.6	
271.3	158.7	158.7	158.7	145.5	158.7	145.5	145.5	145.5	158.7	185.2
254.9	119.1	119.1	119.1	105.8	119.1	105.8	105.8	105.8	119.1	132.3
238.5	105.8	105.8	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
222.1	92.6	92.6	79.4	79.4	79.4	79.4	79.4	66.1	79.4	66.1
205.7	79.4	79.4	79.4	79.4	79.4	66.1	66.1	66.1	66.1	66.1
189.3	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
172.9	66.1	66.1	66.1	66.1	66.1	66.1	66.1	52.9	66.1	66.1
156.5	66.1	66.1	66.1	66.1	66.1	66.1	66.1	52.9	66.1	66.1
140.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	52.9	52.9	66.1
123.7	66.1	66.1	66.1	66.1	66.1	66.1	66.1	52.9	52.9	66.1
107.3	66.1	66.1	66.1	66.1	66.1	66.1	66.1	52.9	52.9	66.1
90.9	66.1	66.1	66.1	66.1	66.1	66.1	66.1	52.9	52.9	66.1

Ust) / 8 ft - JM 850 -

ft)	115	131	148	164	180	197	213	230	246	262
293		132.3	119.1		119.1					
287.7	119.1	119.1	105.8	92.6	105.8	105.8	105.8	105.8	119.1	
271.3	79.4	79.4	79.4	66.1	79.4	66.1	66.1	66.1	66.1	92.6
254.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
238.5	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
222.1	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
205.7	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
189.3	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
172.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
156.5	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
140.1	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
123.7	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
107.3	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
90.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9

Ust) / 8.2 ft - Y 80A -

ft)	115	131	148	164	180	197	213	230	246	262
240.2	105.8	105.8	92.6	105.8	92.6	105.8	105.8			
221.1	105.8	105.8	92.6	92.6	92.6	92.6	92.6	105.8	105.8	105.8
202.1	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	105.8	105.8
183.1	92.6	92.6	79.4	79.4	92.6	92.6	92.6	92.6	92.6	105.8
164	92.6	92.6	79.4	79.4	79.4	92.6	92.6	92.6	92.6	92.6
145.3	92.6	92.6	79.4	79.4	79.4	79.4	79.4	92.6	92.6	92.6
126.3	92.6	92.6	79.4	79.4	79.4	79.4	79.4	79.4	92.6	92.6
107.3	92.6	92.6	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
88.3	92.6	92.6	79.4	79.4	66.1	79.4	79.4	79.4	79.4	79.4

Load curves



▽ (ft)		72	82	89	98	115	121	131	148	154	164	180	187	197	213	220	230	236	246	253	262	ft	
▽	▽ 27.6 USt	▽ → ▽ 13.8 USt	▽										▽										
262	13.5 → 77.4 13.5 → 78.8	136.8 - 149.6 141.2 - 154.7	27.6	25.7	23.5	20.7	17.2	16	14.5	13.8	13.3	12.4	11	10.6	9.9	9	8.7	8.2	7.9	7.5	7.3	6.9	USt
			27.6	26.3	24.1	21.3	17.7	16.6	15.1	13.8	13.8	12.9	11.6	11.1	10.4	9.5	9.1	8.7	8.4	8	7.7	7.4	USt P+
246	13.5 → 84.7 13.5 → 87.7	148.2 - 161.4 156.6 - 170.9	27.6	27.6	26.1	23	19	17.8	16.1	13.8	13.8	13.5	12	11.5	10.8	9.8	9.4	8.9	8.6	8.2			USt
			27.6	27.6	27	24.1	20.1	18.8	17.1	14.8	14	13.8	12.9	12.4	11.7	10.6	10.3	9.7	9.4	9			USt P+
230	13.5 → 90 13.5 → 92	158.9 - 172.7 167.7 - 182.9	27.6	27.6	27.6	24.8	20.6	19.3	17.5	15.1	14.3	13.8	13.1	12.5	11.8	10.7	10.3	9.8					USt
			27.6	27.6	27.6	25.5	21.5	20.2	18.4	16	15.2	14.2	13.8	13.5	12.7	11.6	11.2	10.7					USt P+
213	13.5 → 87.8 13.5 → 92.2	159.1 - 173.9 168.2 - 182.6	27.6	27.6	27	24.2	20.3	19	17.4	15.1	14.3	13.8	13.2	12.7	11.9	10.9							USt
			27.6	27.6	27.6	25.6	21.5	20.2	18.4	16.1	15.3	14.2	13.8	13.4	12.7	11.6							USt P+
197	13.5 → 88.7 13.5 → 93.6	160.6 - 175 170.8 - 185.4	27.6	27.6	27.6	24.5	20.5	19.2	17.6	15.3	14.5	13.8	13.3	12.8	12.1								USt
			27.6	27.6	27.6	26.1	21.9	20.6	18.8	16.4	15.6	14.5	13.8	13.7	12.9								USt P+
180	13.5 → 88.3 13.5 → 91.8	159.9 - 174.2 167.3 - 180.4	27.6	27.6	27	24.4	20.4	19.1	17.5	15.2	14.4	13.8	13.2										USt
			27.6	27.6	27.6	25.5	21.4	20.1	18.4	16	15.2	14.1	13.8	13.8									USt P+
164	13.5 → 91.5 13.5 → 96.2		27.6	27.6	27.6	25.4	21.3	20	18.2	15.9	15	14											USt
			27.6	27.6	27.6	26.8	22.6	21.2	19.4	16.9	16.1	14.9											USt P+
148	13.5 → 90.3 13.5 → 93.6		27.6	27.6	27.6	25	21	19.7	18	15.6													USt
			27.6	27.6	27.6	26	21.9	20.5	18.8	16.4													USt P+
131	13.5 → 90.3 13.5 → 92.1		27.6	27.6	27.6	25	21	19.7	17.9														USt
			27.6	27.6	27.6	25.6	21.5	20.2	18.4														USt P+
115	13.5 → 91 13.5 → 92.9		27.6	27.6	27.6	25.2	21.1																USt
			27.6	27.6	27.6	25.8	21.7																USt P+

$▽ = ▽ - 1.51 \text{ USt max.}$



▽ (ft)		72	82	89	98	115	121	131	148	154	164	180	187	197	213	220	230	236	246	253	262	ft	
▽	▽ 27.6 USt	▽ → ▽ 13.8 USt	▽										▽										
262	8.9 → 78.8 8.9 → 80.2	141.3 - 144.8 146.1 - 149.7	27.6	26.3	24.1	21.3	17.7	16.6	15.1	13.5	12.8	11.8	10.5	10	9.4	8.5	8.1	7.7	7.4	7	6.7	6.4	USt
			27.6	26.9	24.7	21.9	18.3	17.2	15.7	13.8	13.3	12.4	11	10.6	9.9	9	8.6	8.1	7.9	7.4	7.2	6.8	USt P+
246	8.9 → 86.2 8.9 → 89.3	153.1 - 156.7 161.9 - 165.9	27.6	27.6	26.7	23.6	19.6	18.3	16.7	14.4	13.8	13	11.6	11.1	10.4	9.3	9	8.5	8.2	7.7			USt
			27.6	27.6	27.6	24.7	20.7	19.4	17.7	15.4	14.6	13.8	12.5	11.9	11.2	10.2	9.8	9.3	8.9	8.5			USt P+
230	8.9 → 91.7 8.9 → 93.7	164.3 - 168.3 173.7 - 178.1	27.6	27.6	27.6	25.4	21.2	19.9	18.1	15.7	14.9	13.8	12.7	12.1	11.4	10.3	9.9	9.4					USt
			27.6	27.6	27.6	26.1	22	20.7	19	16.6	15.8	14.7	13.6	13	12.3	11.2	10.8	10.3					USt P+
213	8.9 → 89.5 8.9 → 94	164.7 - 168.8 174.3 - 177.9	27.6	27.6	27.6	24.8	20.9	19.6	17.9	15.7	14.9	13.8	12.8	12.2	11.5	10.5							USt
			27.6	27.6	27.6	26.2	22.1	20.7	19	16.7	15.9	14.8	13.6	13	12.3	11.2							USt P+
197	8.9 → 90.3 8.9 → 95.4	166.3 - 170.6 176.9 - 180.6	27.6	27.6	27.6	25.1	21.1	19.8	18.1	15.8	15.1	14	12.9	12.4	11.7								USt
			27.6	27.6	27.6	26.6	22.5	21.1	19.4	17	16.1	15	13.8	13.2	12.5								USt P+
180	8.9 → 89.9 8.9 → 93.5	165.5 - 169.7 173.3 - 177.2	27.6	27.6	27.6	24.9	21	19.7	18	15.7	15	13.9	12.8										USt
			27.6	27.6	27.6	26	22	20.7	18.9	16.6	15.8	14.7	13.5										USt P+
164	8.9 → 93.2 8.9 → 98		27.6	27.6	27.6	26	21.9	20.5	18.8	16.4	15.6	14.5											USt
			27.6	27.6	27.6	27.4	23.1	21.8	20	17.5	16.6	15.5											USt P+
148	8.9 → 92 8.9 → 95.4		27.6	27.6	27.6	25.6	21.5	20.2	18.5	16.2													USt
			27.6	27.6	27.6	26.6	22.5	21.1	19.4	17													USt P+
131	8.9 → 92 8.9 → 93.8		27.6	27.6	27.6	25.6	21.5	20.2	18.5														USt
			27.6	27.6	27.6	26.2	22.1	20.7	19														USt P+
115	8.9 → 92.7 8.9 → 94.6		27.6	27.6	27.6	25.8	21.7																USt
			27.6	27.6	27.6	26.4	22.3																USt P+

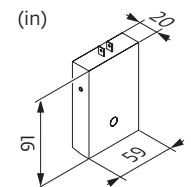
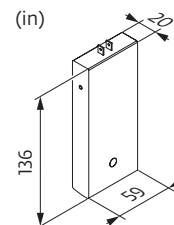
$▽ = ▽ - 0.41 \text{ USt max.}$

Jib weight & counter-jib ballast

▽ (ft)	▽ (lb) (+/- 5%)		100 LVF			180 LVF GH		
	▽ → ▽	▽ → ▽	13,228 lb	8,818 lb	▽ (lb)	13,228 lb	8,818 lb	▽ (lb)
262 ft	58,908	59,988	6	0	79,366	5	0	66,139
246 ft	56,593	57,673	6	0	79,366	5	0	66,139
230 ft	55,380	56,460	6	0	79,366	5	0	66,139
213 ft	52,900	53,980	4	2	70,548	3	2	57,320
197 ft	52,305	53,385	4	2	70,548	3	2	57,320
180 ft	49,824	50,905	4	1	61,729	3	1	48,502
164 ft	46,198	47,278	5	1	74,957	4	1	61,729
148 ft	43,718	44,798	3	3	66,139	2	3	52,911
131 ft	39,562	40,642	3	2	57,320	2	2	44,092
115 ft	37,082	38,162	2	3	52,911	1	3	39,683

CBC - 13,228 lb

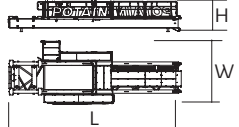
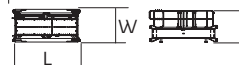
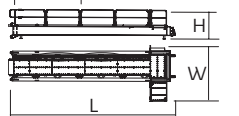
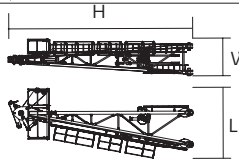

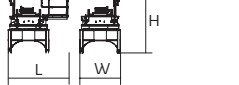
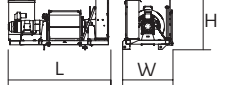
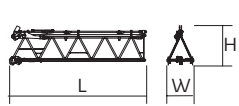
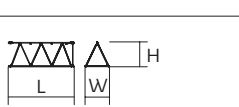
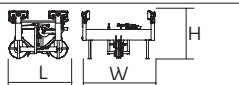

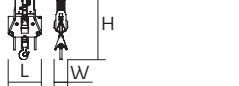

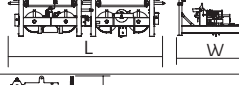

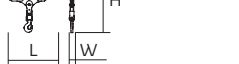

CBD - 8,818 lb

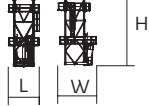




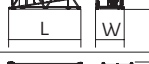




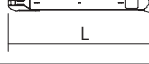
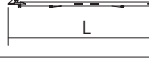
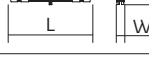
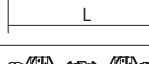
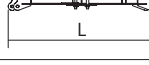

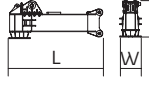
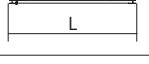
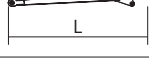


Dimensions and weight

Slewing crane part:  262 ft -  100 LVF



Slewing crane part		L (ft)	W (ft)	H (ft)	lb (+/- 5%)	
Counter-jib		38.4	13.5	6.4	14,308	
		13.8	6.6	6.4	4,365	
		36.2	11.7	6.8	10,858	
Cathead		11.6	6.5	32.3	18,221	
Cab		Ultra View 16.4	8.2	9.1	4,134	
Towerhead		8 ft	12.1	9.5	25,485	
		8.2 ft	12.9	10	25,353	
Hoisting winch (+ rope)		100 LVF	10.4	5.2	9,138	
		180 LVF GH	14	6.3	20,349	
Jib section		①	34	6.2	8.3	11,241
		② 10 DVF	33.9	6.2	7.7	10,944
		③	33.6	6.2	7.9	6,634
		④	33.6	6.2	7.6	6,105
		⑤	33.6	6.2	7.6	6,279
Jib section		⑥	33.5	6.2	6.6	3,075
		⑦	17.5	6.2	7.4	4,222
		⑧	17.2	6.2	6.7	2,476
		⑩	17.2	6.2	6.7	2,314
	⑩	17	6.2	6.5	1,215	
Trolley		 27.6 USt	5.9	7.4	4.7	1,676
Pulley block		 27.6 USt	3.9	1.4	7.8	1,874
Trolley		 27.6 USt	13.5	7.2	3.8	2,635
Pulley block		 27.6 USt	6	1.1	7.7	1,995

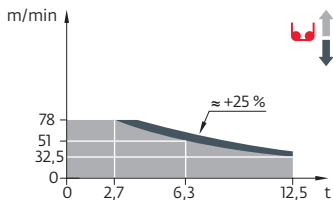
Crane tower		L (ft)	W (ft)	H (ft)	lb (+/- 5%)	
Telescopic cage		8 ft	15.2	19	33.6	29,200
K 850/K 850 Telescoping mast		8 ft	7.3	10.7	8.2	8,069
Telescopic cage		8.2 ft	24.3	12	19.1	13,669
Slider		8.2 ft	36.4	6.9	6.9	15,653
Slider base		8.2 ft	7.7	5.2	7.7	13,140
KM 850.10B KMT 850.10A KMT 850.10C		8 ft	33.9 17.5 12	8.1 8.3 8.3	8.3 8.2 8.2	22,201 12,015 9,326
R 86 R 87 R 87B R 88B		8.2 ft	21 21 21 21	9.5 9.5 9.5 9.7	9.5 9.5 9.5 9.7	8,422 9,392 9,976 12,787
Fixing angles		P 851A P 80A P 81A ⓘ	3 2.6 -	3 2.6 -	4.9 4 -	1,841 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)		YM 850 JM 850	17.1	5.6	4.9	14,771
Basic mast unit		YM 850 JM 850	28.7	8.2	8.2	32,187
Chassis girder		YM 850 JM 850	12.5 17.1	3 3	5.1 5.1	6,173 7,055
Chassis ties		YM 850 JM 850	23.6	0.8	1.1	551
Struts		YM 850 JM 850	24.6 26.9	2.5 2.5	4.3 4.3	4,630 5,071

Mechanisms

480 V - 60 Hz											hp	kW			
	100 LVF 63 Optima	fpm	107	133	167	256	54	67	85	128	100	75	2,382 ft		
		USt	13.8	10.4	6.9	3	27.6	20.7	13.8	6.9					
	180 LVF 63 GH Optima	fpm	177	218	289	448	630	89	110	148	236	315	180	132	3,937 ft
		USt	13.8	10.4	6.9	3.4	1	27.6	20.7	13.8	6.9	3.4			
	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 → 0.8										3 x 10	3 x 7.5	

480 V (+6% -10%) 60 Hz	100 LVF : 117 → 77 kVA	
	180 LVF GH : 181 → 109 kVA	

100 LVF 63 Optima



These mast combinations meet the EN 14439 and ASME B30.3-2012 specifications for "out of service" wind conditions, provided the illustrated wind speed matches required design wind 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-A. 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 50-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

This commercial document is not legally binding. For any technical information, please refer to the corresponding instructions.

