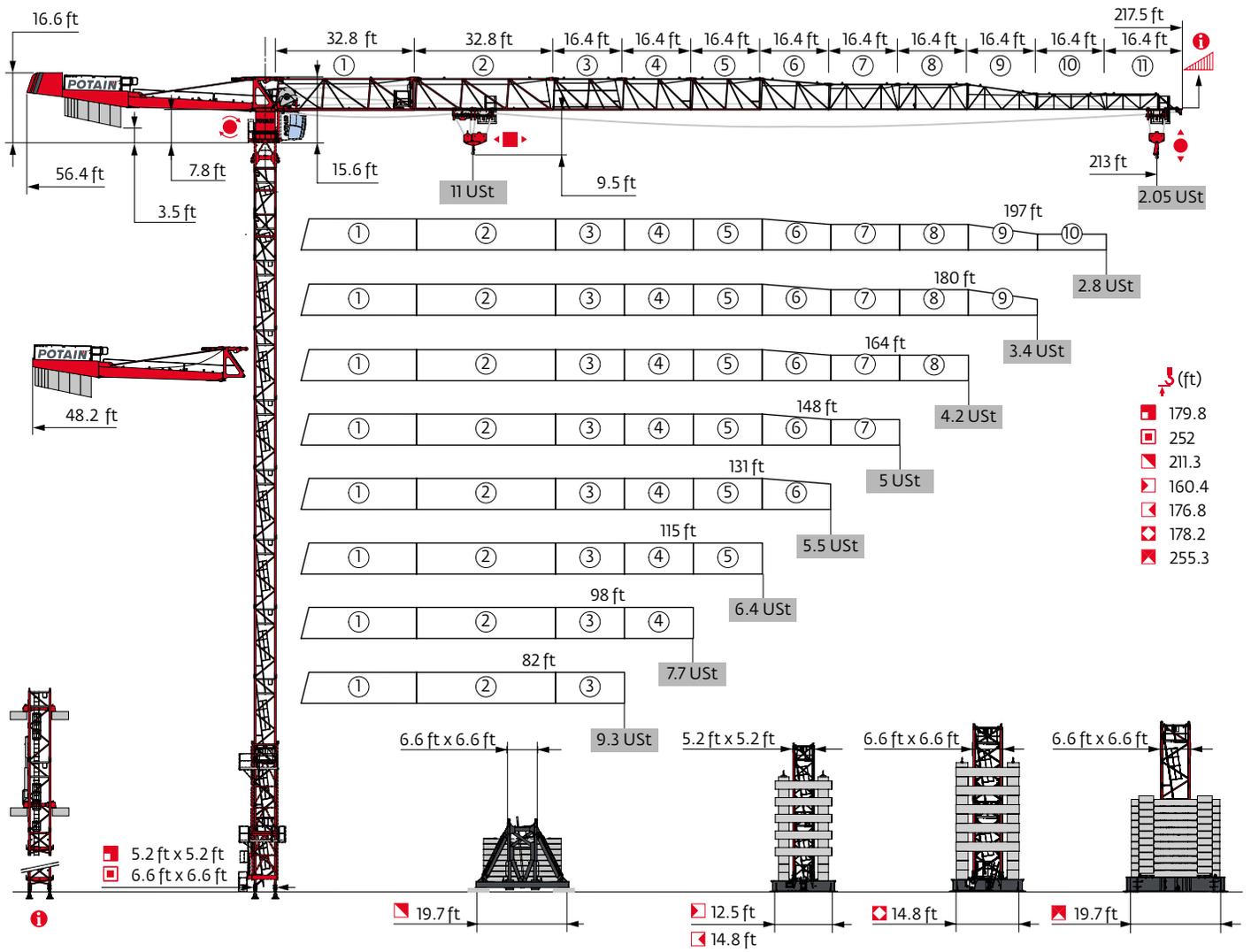


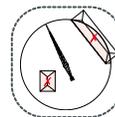
MDT 219 J10



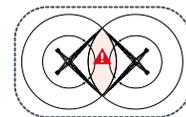
Potain Plus Power Control



Top Site



Anti-collision systems



Automatic Rotation Control



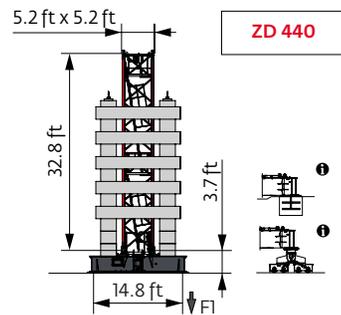
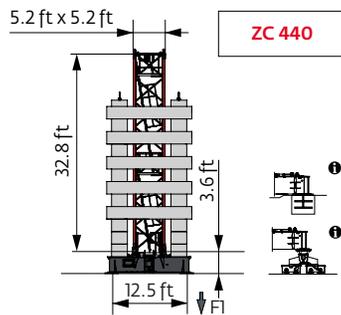
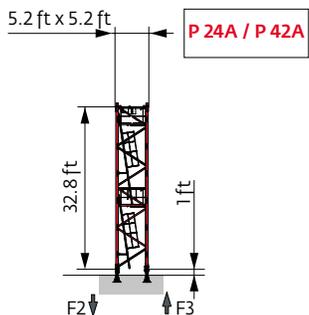
Mast - Reactions

5.2 ft City - P 42A									
Height (ft)	82	98	115	131	148	164	180	197	213
\bar{h} (ft)	179.8	174.2	174.2	174.2	169	169	163.4	163.4	163.4
\bar{h}/P_r (ft)	179.8	174.2	174.2	174.2	169	169	163.4	163.4	163.4
10.9 ft	0	1	1	1	2	2	0	0	0
16.4 ft	9	8	8	8	7	7	8	8	8
32.8 ft	1	1	1	1	1	1	1	1	1
F2 (Ust)	● 149 ■ 187	146 177	147 180	149 183	148 176	150 178	150 170	152 178	153 185
F3 (Ust)	● 112 ■ 156	109 145	109 148	110 149	109 142	110 143	110 136	112 143	113 151

5.2 ft City - ZC 440 - 									
Height (ft)	82	98	115	131	148	164	180	197	213
\bar{h} (ft)	160.4	160.4	160.4	155.2	155.2	155.2	149.6	149.6	149.6
\bar{h}/P_r (ft)	160.4	160.4	160.4	155.2	155.2	155.2	149.6	149.6	149.6
10.9 ft	1	1	1	2	2	2	0	0	0
16.4 ft	9	9	9	8	8	6	9	9	9
32.8 ft	0	0	0	0	0	1	0	0	0
F1 (Ust)	● 100 ■ 97	100 97	101 98	99 94	102 97	102 98	102 96	102 98	102 101

5.2 ft City - ZD 440 - 									
Height (ft)	82	98	115	131	148	164	180	197	213
\bar{h} (ft)	176.8	176.8	176.8	171.6	166	166	166	166	160.4
\bar{h}/P_r (ft)	176.8	176.8	176.8	171.6	166	166	166	166	160.4
10.9 ft	1	1	1	2	0	0	0	0	1
16.4 ft	8	8	8	7	8	8	8	8	7
32.8 ft	1	1	1	1	1	1	1	1	1
F1 (Ust)	● 93 ■ 97	93 96	94 97	94 95	93 92	94 92	95 95	96 98	95 97

5.2 ft - P 42A									
Height (ft)	82	98	115	131	148	164	180	197	213
\bar{h} (ft)	175.5	170	170	170	164.4	164.4	159.1	159.1	159.1
\bar{h}/P_r (ft)	175.5	170	170	170	164.4	164.4	159.1	159.1	159.1
6.6 ft	1	1	1	1	1	1	1	1	1
10.9 ft	2	0	0	0	1	1	2	2	2
16.4 ft	7	8	8	8	7	7	6	6	6
32.8 ft	1	1	1	1	1	1	1	1	1
F2 (Ust)	● 153 ■ 206	149 190	150 193	152 196	151 189	153 191	154 188	156 196	157 204
F3 (Ust)	● 114 ■ 172	109 155	109 158	110 159	109 152	110 153	111 151	112 158	114 166



6.6 ft - P 63A

Height (ft)	82	98	115	131	148	164	180	197	213
F_1 (ft)	252	252	252	252	252	252	246.4	246.4	241.1
F_1/P_1 (ft)	252	252	252	252	252	252	246.4	246.4	241.1
6.6 ft	1	1	1	1	1	1	1	1	1
10.9 ft	0	0	0	0	0	0	1	1	2
16.4 ft	13	13	13	13	13	13	12	12	11
32.8 ft	1	1	1	1	1	1	1	1	1
F2 (USt)	● 193	194	194	197	200	202	203	204	201
	■ 389	389	392	394	397	399	390	397	389
F3 (USt)	● 141	140	140	142	144	146	146	148	145
	■ 343	342	344	345	347	348	340	346	338

6.6 ft - V 60A

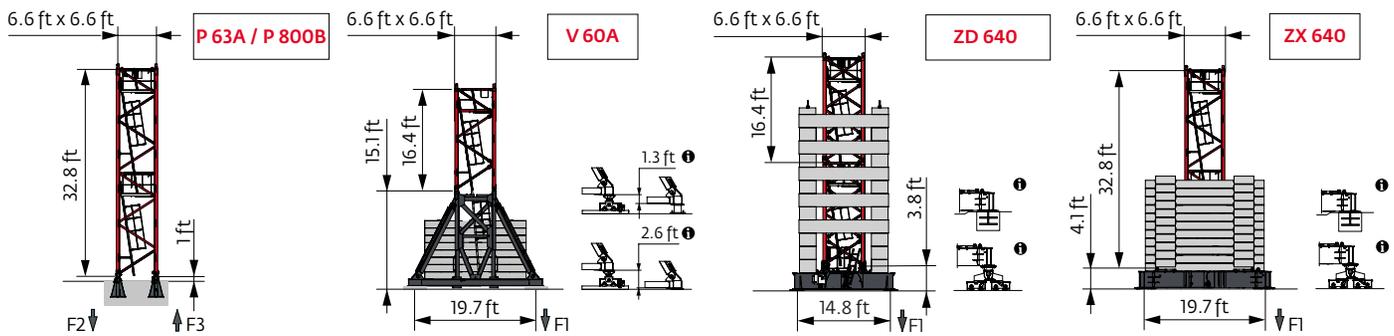
Height (ft)	82	98	115	131	148	164	180	197	213
F_1 (ft)	211.3	211.3	211.3	211.3	211.3	211.3	206	206	200.5
F_1/P_1 (ft)	211.3	211.3	211.3	211.3	211.3	211.3	206	206	200.5
6.6 ft	1	1	1	1	1	1	1	1	1
10.9 ft	1	1	1	1	1	1	2	2	0
16.4 ft	11	11	11	11	11	11	10	10	11
F1 (USt)	● 102	102	103	104	105	106	106	106	105
	■ 144	144	145	146	147	148	145	149	144

6.6 ft - ZD 640

Height (ft)	82	98	115	131	148	164	180	197	213
F_1 (ft)	172.6	172.6	178.2	172.6	172.6	172.6	167.3	167.3	167.3
F_1/P_1 (ft)	172.6	172.6	178.2	172.6	172.6	172.6	167.3	167.3	167.3
6.6 ft	1	1	1	1	1	1	1	1	1
10.9 ft	0	0	2	0	0	0	1	1	1
16.4 ft	10	10	9	10	10	10	9	9	9
F1 (USt)	● 99	100	103	101	104	105	105	105	106
	■ 123	122	134	126	127	129	125	131	136

6.6 ft - ZX 640

Height (ft)	82	98	115	131	148	164	180	197	213
F_1 (ft)	255.3	255.3	255.3	255.3	255.3	255.3	249.7	249.7	244.1
F_1/P_1 (ft)	255.3	255.3	255.3	255.3	255.3	255.3	249.7	249.7	244.1
6.6 ft	1	1	1	1	1	1	1	1	1
10.9 ft	0	0	0	0	0	0	1	1	2
16.4 ft	13	13	13	13	13	13	12	12	11
32.8 ft	1	1	1	1	1	1	1	1	1
F1 (USt)	● 137	138	141	142	143	144	142	145	141
	■ 210	210	211	213	214	215	210	214	210



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

Anchorage

i

Base ballast

USt / 5.2 ft City - ZC 440 -

ft)	82	98	115	131	148	164	180	197	213
160.4	137.8	137.8	137.8						
155.2	132.3	132.3	132.3	132.3	137.8	137.8			
149.6	132.3	132.3	132.3	132.3	132.3	132.3	137.8	132.3	132.3
133.2	121.3	121.3	121.3	121.3	121.3	121.3	121.3	110.2	110.2
116.8	110.2	110.2	110.2	110.2	110.2	110.2	110.2	110.2	99.2
100.4	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
84	99.2	99.2	99.2	99.2	99.2	99.2	99.2	88.2	88.2
67.6	99.2	99.2	99.2	99.2	99.2	99.2	88.2	88.2	88.2
51.2	99.2	99.2	99.2	99.2	99.2	99.2	88.2	88.2	88.2

USt / 5.2 ft City - ZD 440 -

ft)	82	98	115	131	148	164	180	197	213
176.8	121.3	121.3	121.3						
171.6	121.3	121.3	121.3	121.3					
166	110.2	110.2	110.2	110.2	121.3	121.3	121.3	121.3	
160.4	110.2	110.2	110.2	110.2	110.2	110.2	121.3	121.3	121.3
144	99.2	99.2	99.2	88.2	99.2	99.2	99.2	99.2	99.2
127.6	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	77.2
111.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
94.8	77.2	77.2	77.2	77.2	77.2	66.1	66.1	66.1	66.1
78.4	77.2	77.2	77.2	77.2	77.2	66.1	66.1	66.1	66.1
62	77.2	77.2	77.2	77.2	77.2	66.1	66.1	66.1	66.1

USt / 6.6 ft - V 60A -

ft)	82	98	115	131	148	164	180	197	213
211.3	145.5	145.5	145.5	145.5	145.5	145.5			
206	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	
200.5	132.3	132.3	132.3	132.3	132.3	132.3	132.3	132.3	145.5
184.1	105.8	92.6	105.8	105.8	105.8	92.6	105.8	105.8	119.1
167.7	79.4	66.1	66.1	66.1	66.1	66.1	79.4	79.4	92.6
151.3	66.1	66.1	52.9	52.9	52.9	52.9	66.1	66.1	66.1
134.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
118.4	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
102 ↓	39.7	39.7	39.7	39.7	39.7	26.5	26.5	26.5	39.7
52.8	39.7	39.7	39.7	39.7	39.7	26.5	26.5	26.5	39.7

USt / 6.6 ft - ZD 640 -

ft)	82	98	115	131	148	164	180	197	213
178.2			137.8						
172.6	132.3	132.3	132.3	132.3	137.8	137.8			
167.3	132.3	132.3	132.3	132.3	132.3	132.3	137.8	137.8	137.8
150.9	110.2	110.2	110.2	110.2	110.2	110.2	121.3	121.3	121.3
134.5	88.2	88.2	88.2	88.2	88.2	88.2	99.2	99.2	99.2
118.1	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
101.7	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
85.3	66.1	66.1	66.1	66.1	66.1	66.1	66.1	55.1	66.1
68.9	66.1	66.1	66.1	66.1	66.1	66.1	66.1	55.1	66.1
52.5	66.1	66.1	66.1	66.1	66.1	66.1	66.1	55.1	66.1

USt / 6.6 ft - ZX 640 -

ft)	82	98	115	131	148	164	180	197	213
255.3	220.5	220.5	231.5	231.5	231.5	231.5			
249.7	209.4	209.4	220.5	220.5	220.5	220.5	220.5	231.5	
244.1	198.4	198.4	198.4	209.4	209.4	209.4	209.4	220.5	220.5
227.7	165.4	165.4	165.4	165.4	165.4	165.4	165.4	176.4	187.4
211.3	132.3	132.3	132.3	132.3	132.3	132.3	132.3	143.3	143.3
194.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	110.2	110.2
178.5	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	88.2
162.1	55.1	55.1	55.1	55.1	55.1	55.1	66.1	66.1	66.1
145.7	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
129.3	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1
112.9 ↓	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
63.7	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1

Load curves



▲▲▲▲ (ft)		56	66	72	82	89	98	105	115	121	131	138	148	154	164	171	180	187	197	203	213	ft	
▲▲▲	USt	▲▲▲										▲▲▲											
▲▲▲	5.5 USt	▲▲▲										▲▲▲											
213	10 → 53	10.5	8.8	7.9	6.8	6.2	5.5	5.5	5.1	4.7	4.4	4.1	3.8	3.6	3.3	3.1	2.85	2.65	2.4	2.15	2.05	USt	
	10 → 58	11	9.7	8.7	7.5	6.9	6	5.6	5.5	5.1	4.6	4.3	4	3.7	3.5	3.3	3	2.8	2.5	2.3	2.05	USt P+	
197	10 → 57	11	9.5	8.6	7.4	6.8	6	5.5	5.5	5.1	4.6	4.3	3.9	3.7	3.4	3.3	3.1	2.95	2.75			USt	
	10 → 62	11	10.3	9.2	8	7.2	6.3	5.7	5.5	5.1	4.7	4.4	4	3.8	3.5	3.3	3.1	2.95	2.8			USt P+	
180	10 → 62	11	10.4	9.4	8.2	7.5	6.6	6.2	5.5	5.1	4.7	4.3	4.1	3.8	3.5	3.4						USt	
	10 → 65	11	11	9.9	8.6	7.9	6.9	6.3	5.6	5.5	5.1	4.8	4.4	4.2	3.9	3.7	3.4					USt P+	
164	10 → 66	11	11	10	8.7	8	7.1	6.6	6	5.6	5.5	5.1	4.7	4.4	4.1							USt	
	10 → 68	11	11	10.4	9	8.3	7.4	6.8	6.1	5.6	5.5	5.2	4.8	4.5	4.2							USt P+	
148	10 → 67	11	11	10.1	8.8	8.1	7.2	6.7	6	5.7	5.5	5.3	4.9									USt	
	10 → 69	11	11	10.5	9.1	8.3	7.4	6.9	6.2	5.8	5.5	5.4	5									USt P+	
131	10 → 68	11	11	10.3	9	8.3	7.3	6.8	6.2	5.8	5.5											USt	
	10 → 69	11	11	10.6	9.2	8.4	7.5	7	6.3	5.9	5.5											USt P+	
115	10 → 69	11	11	10.5	9.1	8.4	7.5	6.9	6.3													USt	
	10 → 70	11	11	10.7	9.3	8.5	7.6	7	6.4													USt P+	
98	10 → 70	11	11	10.7	9.3	8.6	7.6															USt	
	10 → 71	11	11	10.8	9.4	8.6	7.7															USt P+	
82	10 → 69	11	11	10.6	9.2																	USt	
	10 → 70	11	11	10.6	9.2																	USt P+	

$W_{10} = W_{10} - 0.53 \text{ USt max.}$



▲▲▲▲ (ft)		56	66	72	82	89	98	105	115	121	131	138	148	154	164	171	180	187	197	203	213	ft	
▲▲▲	USt	▲▲▲										▲▲▲											
▲▲▲	5.5 USt	▲▲▲										▲▲▲											
213	8 → 53	10.6	8.9	8	7	6.4	5.6	5.4	4.8	4.5	4.1	3.9	3.6	3.4	3.1	2.95	2.65	2.45	2.2	1.95	1.8	USt	
	8 → 58	11	9.8	8.8	7.6	7	6.1	5.7	5.2	4.8	4.4	4.1	3.8	3.5	3.3	3.1	2.8	2.6	2.3	2.1	1.85	USt P+	
197	8 → 58	11	9.7	8.7	7.6	6.9	6.1	5.7	5.3	4.9	4.5	4.2	3.9	3.7	3.4	3.2	2.9	2.7	2.55			USt	
	8 → 62	11	10.4	9.3	8.1	7.4	6.6	6.1	5.5	5.2	4.8	4.4	4.1	3.8	3.5	3.3	3.1	2.85	2.6			USt P+	
180	8 → 63	11	10.5	9.5	8.3	7.6	6.7	6.3	5.7	5.4	5	4.7	4.3	4	3.7	3.5	3.3					USt	
	8 → 66	11	11	10	8.7	8	7.1	6.6	5.9	5.5	5.1	4.8	4.4	4.1	3.8	3.6	3.4					USt P+	
164	8 → 67	11	11	10.1	8.8	8.1	7.2	6.7	6.1	5.7	5.3	4.9	4.5	4.2	3.9							USt	
	8 → 69	11	11	10.5	9.1	8.4	7.4	6.9	6.2	5.7	5.3	5	4.6	4.3	4							USt P+	
148	8 → 67	11	11	10.2	8.9	8.2	7.3	6.8	6.1	5.8	5.4	5.1	4.7									USt	
	8 → 69	11	11	10.5	9.2	8.4	7.5	7	6.3	5.9	5.5	5.2	4.8									USt P+	
131	8 → 69	11	11	10.4	9.1	8.4	7.4	6.9	6.3	5.9	5.5											USt	
	8 → 70	11	11	10.6	9.3	8.5	7.6	7	6.4	6	5.5											USt P+	
115	8 → 70	11	11	10.6	9.2	8.5	7.6	7	6.4													USt	
	8 → 71	11	11	10.7	9.3	8.6	7.6	7.1	6.4													USt P+	
98	8 → 71	11	11	10.8	9.4	8.7	7.7															USt	
	8 → 71	11	11	10.9	9.5	8.7	7.7															USt P+	
82	8 → 70	11	11	10.7	9.3																	USt	
	8 → 70	11	11	10.7	9.3																	USt P+	

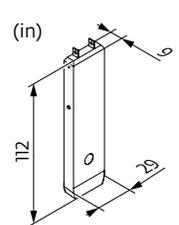
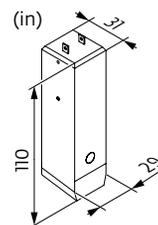
$W_{10} = W_{10} - 0.18 \text{ USt max.}$

Jib weight & counter-jib ballast

▲▲▲▲	▲▲▲▲ (lb) - 50 LVF (+/- 5%)			▲▲▲▲		▲▲▲ (lb)
	▲▲▲	▲▲▲	▲▲▲	7,937 lb	2,425 lb	
213 ft	24,403	23,940	24,590	4	4	41,447
197 ft	23,962	23,499	24,149	4	4	41,447
180 ft	23,257	22,860	23,455	4	4	41,447
164 ft	22,595	22,198	22,794	4	4	41,447
148 ft	21,821	21,425	22,020	4	3	39,022
131 ft	20,962	20,565	21,160	4	2	36,597
115 ft	19,903	19,507	20,102	4	1	34,172
98 ft	18,797	18,400	18,995	4	0	31,747
82 ft	17,690	17,293	17,888	3	2	28,660

CAU - 7,937 lb

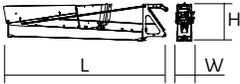
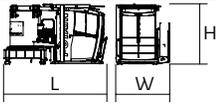
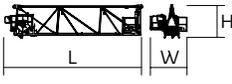
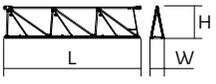
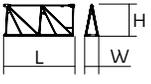
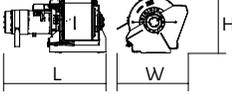
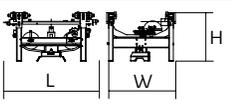
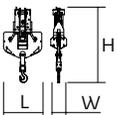
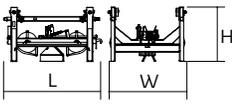
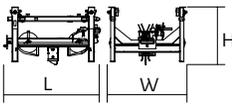
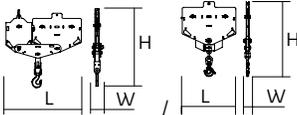
CAV - 2,425 lb

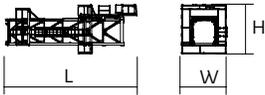
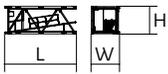
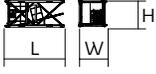
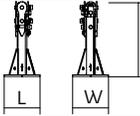
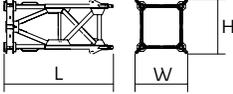
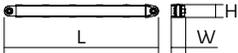
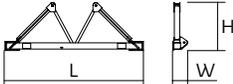
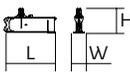
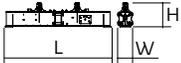
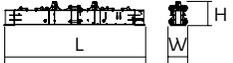


Dimensions and weight

Slewing crane part:  213 ft -  -  50 LVF



Slewing crane part		L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Counter-jib		36.7	5	8.3	13,096
Towerhead + cab	 Ultra View  5.2 ft  6.6 ft	15.4 15.6	7.5 7.5	8.2 8.2	14,749 16,513
Jib section	 ① 50 LVF 6 DVF	35.8	9.6	8.6	9,943
Jib section	 ②	33.7	3.4	7.9	4,156
Jib section	 ③ ④ ⑤ ⑦ ⑧ ⑩	17.2 17 17 17 17 16.9	3.4 3.4 3.4 3.4 3.4 3.4	7.7 7.6 7.6 6.3 6.2 3.9	1,654 1,327 1,327 860 774 529
Jib section	 ⑥ ⑨	17 16.9	3.4 3.4	7.6 6.2	1,058 661
Jib section	 ⑪	16.7	3.4	3.8	441
Hoisting winch (+ rope)	 50 LVF 50 LVF GH	5 5.3	3 4.2	2.8 3.9	2,646 4,101
Trolley	  11 USt	5.9	4.4	3.2	743
Pulley block	  11 USt	3.3	1.4	6.6	697
Trolley	  11 USt	5.4	4.3	3	362
Trolley	  11 USt  5.5 USt	5.2 5.2	4.3 4.2	3 3	353 507
Pulley block	  11 USt  5.5 USt	5.4 3.6	0.8 0.5	5.6 4.9	675 695

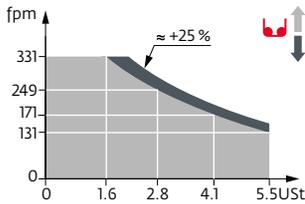
Crane tower		L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Telescopic cage T41 Telescopic cage T61		35.6 35.5	12.3 13.6	13.5 14.7	15,653 21,385
K40/K40-2 K60/K60-2		7.3 7.3	6.9 8.2	6.8 8.1	2,932 4,255
K 447E KM 447E KRM 449E K 649B KM 649E KRM 6410B		33.5 33.5 33.5 33.6 33.8 33.6	5.3 5.3 5.3 6.8 6.7 6.9	5.3 5.3 5.3 6.7 6.7 6.8	7,474 7,088 9,370 11,663 10,692 15,653
K 447A KMT 447A K 449A KMT 449A KR 649A KRMT 649A K 649A KMT 649A		17.1 17.1 17.1 17.1 17.2 17.2 17.2 17.2	5.5 5.5 5.5 5.5 6.9 6.9 6.8 6.8	5.3 5.3 5.3 5.3 6.8 6.8 6.7 6.7	4,079 3,847 4,916 4,696 7,165 6,724 6,184 5,666
KMT 447C KRMT 649C		11.6 11.7	5.5 6.9	5.3 6.8	2,976 5,401
Fixing angles		1.8 2.5	1.8 2.5	3.8 4.2	529 1,025
Basic mast unit		16.4	7.9	7.9	10,494
Struts		14.8	1	1	1,036
Half-bearer		22	2.3	7.6	4,057
1/2 Cross girder		9.2 10.8 10.8	1.9 1.9 1.9	4.3 4.4 4.7	2,447 2,778 2,976
Cross girder		19 22.2 22.2	2.8 2.8 1	4.3 4.3 4.7	5,997 6,702 7,055
1/2 Cross girder		14.3	3.3	5.1	7,319
Cross girder		30	3.9	5.1	15,168

Mechanisms

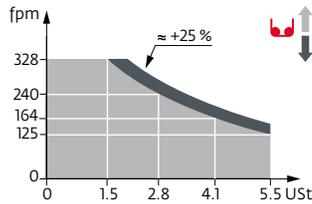
480 V - 60 Hz											hp	kW	
	50 LVF 25 Optima	fpm	131	171	249	331	66	85	125	164	50	37	912 ft
		USt	5.5	4.1	2.8	1.6	11	8.3	5.5	3.3			
	50 LVF 25 GH Optima	fpm	125	164	240	328	62	82	121	164	50	37	1,690 ft
		USt	5.5	4.1	2.8	1.5	11	8.3	5.5	3.2			
	6 DVF 4 Optima	fpm	0 → 262 (11 USt)				0 → 328 (2.2 USt)				5.5	4	
	RVF 162 Optima+	rpm					0 → 0.8				2 x 7.5	2 x 5.5	

IEC 60204-32		
480 V (+6% -10%) 60 Hz	50 LVF / 50 LVF GH: 58 → 38 kVA	

50 LVF 25 Optima



50 LVF 25 GH 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.

- 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.

