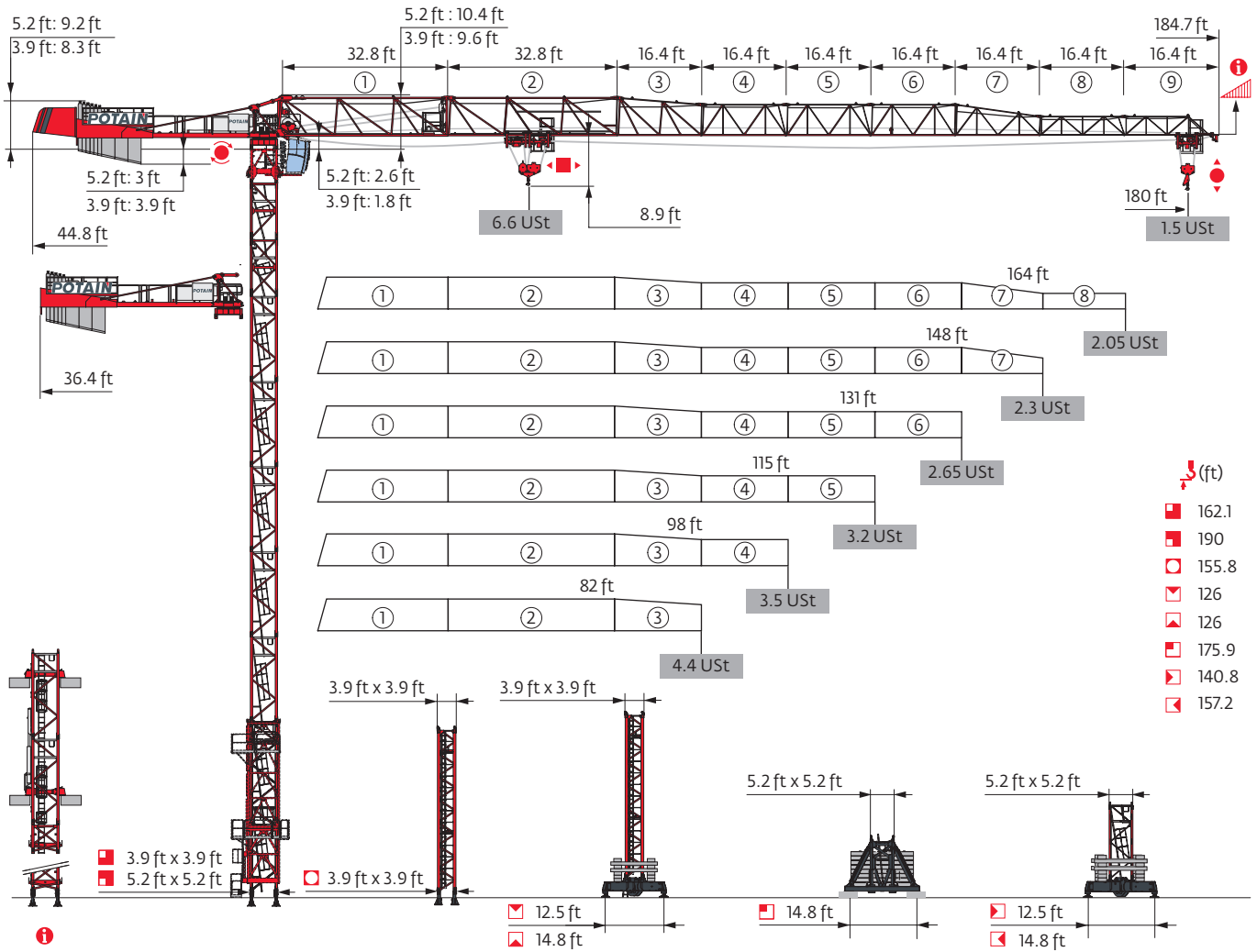


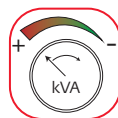
MDT 109



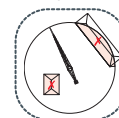
Potain Plus



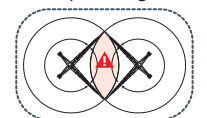
Power Control



Top Site




Top Tracing 3




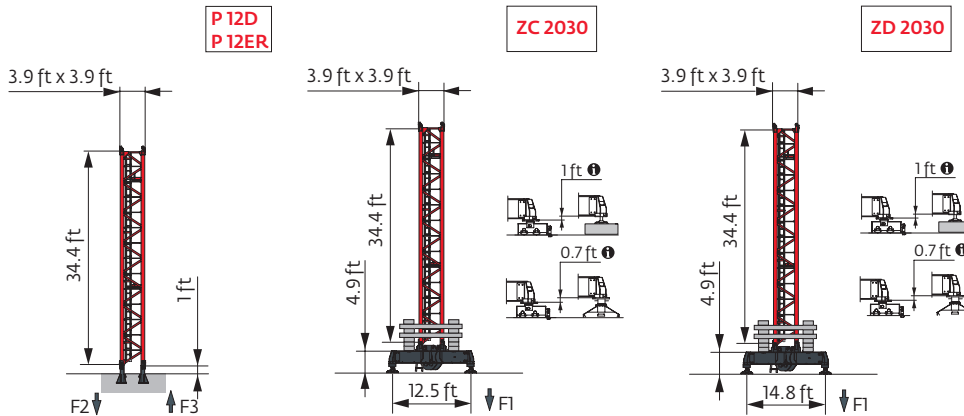
Mast - Reactions

3.9 ft City - P 12D							
Height (ft)	82	98	115	131	148	164	180
Height (ft)	131.2	131.2	131.2	131.2	121.4	121.4	121.4
Height/P+ (ft)	131.2	131.2	131.2	131.2	121.4	121.4	121.4
Clearance	24.6 ft	0	0	0	1	1	1
	34.4 ft	4	4	4	3	3	3
F2 (Ust)	● 106	105	103	105	101	102	103
	■ 171	171	172	175	147	147	147
F3 (Ust)	● 84	82	79	81	76	76	77
	■ 152	151	151	153	125	125	124

3.9 ft City - P 12ER							
Height (ft)	82	98	115	131	148	164	180
Height (ft)	146	155.8	155.8	155.8	155.8	146	146
Height/P+ (ft)	146	155.8	155.8	155.8	155.8	146	146
Clearance	24.6 ft	2	1	1	1	2	2
	34.4 ft	3	4	4	4	3	3
F2 (Ust)	● 121	130	127	131	136	126	128
	■ 217	256	250	260	260	222	221
F3 (Ust)	● 97	104	100	103	107	98	99
	■ 196	233	227	236	235	197	196

3.9 ft City - ZC 2030 - 							
Height (ft)	82	98	115	131	148	164	180
Height (ft)	116.1	116.1	116.1	116.1	126	126	126
Height/P+ (ft)	116.1	116.1	116.1	116.1	126	126	126
Clearance	24.6 ft	2	2	2	1	1	1
	34.4 ft	2	2	2	2	3	3
F1 (Ust)	● 53	54	53	54	62	62	63
	■ 63	63	63	65	80	80	79

3.9 ft City - ZD 2030 - 							
Height (ft)	82	98	115	131	148	164	180
Height (ft)	126	126	126	116.1	116.1	116.1	126
Height/P+ (ft)	126	126	126	116.1	116.1	116.1	126
Clearance	24.6 ft	1	1	1	2	2	1
	34.4 ft	3	3	3	2	2	3
F1 (Ust)	● 51	52	51	46	47	47	53
	■ 65	65	65	54	54	54	66




Note: When "ASCE" is noted in this data sheet it is referring to 115 mph Wind Zone, Exposure B, Design Wind Speed = 98 mph. See back cover for design wind speed calculations.


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


Other mast compositions - Please consult us


3.9 ft City - P 24A


Height (ft)	82	98	115	131	148	164	180
r_s (ft)	162.1	162.1	162.1	162.1	145.7	145.7	145.7
r_s/P_s (ft)	162.1	162.1	162.1	162.1	145.7	145.7	145.7
	4.9 ft	1	1	1	1	1	1
	16.4 ft	8	8	8	8	7	7
	32.8 ft	1	1	1	1	1	1
F2 (Ust)	● 129	128	125	128	120	121	123
	■ 227	227	228	231	190	191	191
F3 (Ust)	● 102	100	97	99	91	92	93
	■ 204	203	203	205	165	165	164


5.2 ft City - P 42A

Height (ft)	82	98	115	131	148	164	180
r_s (ft)	190	190	190	190	190	190	190
r_s/P_s (ft)	190	190	190	190	190	190	190
	10.9 ft	0	0	0	0	0	0
	16.4 ft	10	10	10	10	10	10
	32.8 ft	1	1	1	1	1	1
F2 (Ust)	● 114	113	111	114	118	120	122
	■ 223	223	224	226	227	228	228
F3 (Ust)	● 86	84	82	83	87	88	89
	■ 198	198	197	199	199	199	198


5.2 ft City - ZC 4230 


Height (ft)	82	98	115	131	148	164	180
r_s (ft)	140.8	140.8	140.8	140.8	140.8	140.8	140.8
r_s/P_s (ft)	140.8	140.8	140.8	140.8	140.8	140.8	140.8
	10.9 ft	1	1	1	1	1	1
	16.4 ft	8	8	8	8	8	8
F1 (Ust)	● 64	64	64	65	65	65	66
	■ 83	82	82	84	84	84	83


5.2 ft City - ZD 4230 

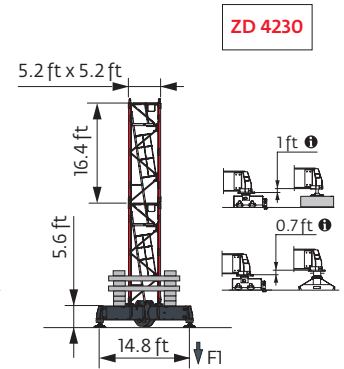
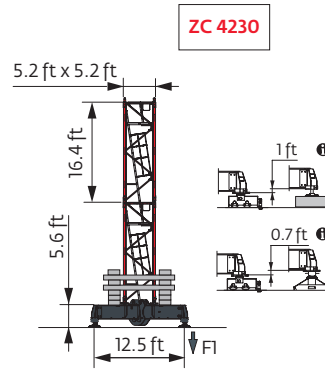
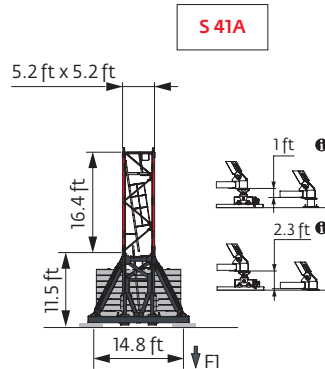
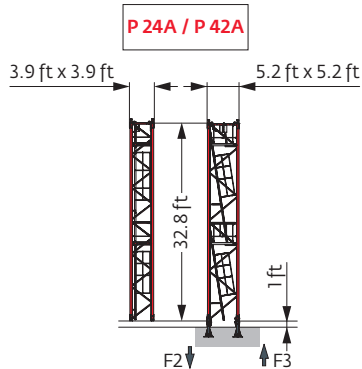
Height (ft)	82	98	115	131	148	164	180
r_s (ft)	151.6	157.2	157.2	157.2	157.2	157.2	157.2
r_s/P_s (ft)	151.6	157.2	157.2	157.2	157.2	157.2	157.2
	10.9 ft	2	1	1	1	1	1
	16.4 ft	8	9	9	9	9	9
F1 (Ust)	● 61	63	63	64	65	66	65
	■ 82	87	87	88	88	88	88

5.2 ft - P 42A

Height (ft)	82	98	115	131	148	164	180
r_s (ft)	185.4	185.4	180.1	180.1	180.1	180.1	180.1
r_s/P_s (ft)	185.4	185.4	180.1	180.1	180.1	180.1	180.1
	6.6 ft	1	1	1	1	1	1
	10.9 ft	2	2	0	0	0	0
	16.4 ft	8	8	9	9	9	9
	32.8 ft	1	1	1	1	1	1
F2 (Ust)	● 118	117	111	113	118	119	121
	■ 237	237	222	224	225	226	226
F3 (Ust)	● 86	84	78	80	83	84	85
	■ 209	208	192	194	194	194	193

5.2 ft - S 41A 

Height (ft)	82	98	115	131	148	164	180
r_s (ft)	170.6	175.9	175.9	175.9	175.9	175.9	175.9
r_s/P_s (ft)	170.6	175.9	175.9	175.9	175.9	175.9	175.9
	6.6 ft	1	1	1	1	1	1
	10.9 ft	1	0	0	0	0	0
	16.4 ft	9	10	10	10	10	10
F1 (Ust)	● 75	78	78	79	80	81	82
	■ 109	115	115	116	116	116	116



Anchorage



Base ballast

(Ust) / 3.9 ft City - ZC 2030

Height (ft)	82	98	115	131	148	164	180
126				82.7	82.7	82.7	
116.1	66.1	66.1	66.1	66.1	66.1	71.7	71.7
81.7	49.6	49.6	49.6	49.6	49.6	49.6	49.6
47.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6

(Ust) / 3.9 ft City - ZD 2030

Height (ft)	82	98	115	131	148	164	180
126	66.1	66.1	66.1				60.6
116.1	49.6	49.6	49.6	49.6	49.6	49.6	49.6
81.7	49.6	49.6	49.6	49.6	49.6	49.6	49.6
47.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6

(Ust) / 5.2 ft City - ZC 4230

Height (ft)	82	98	115	131	148	164	180
140.8	88.2	88.2	88.2	88.2	82.7	82.7	82.7
124.3	60.6	60.6	55.1	60.6	66.1	66.1	66.1
107.9	49.6	49.6	49.6	49.6	49.6	49.6	55.1
91.5	49.6	49.6	49.6	49.6	49.6	49.6	49.6
75.1	49.6	49.6	49.6	49.6	49.6	49.6	49.6
58.7	49.6	49.6	49.6	49.6	49.6	49.6	49.6
42.3	49.6	49.6	49.6	49.6	49.6	49.6	49.6

(Ust) / 5.2 ft City - ZD 4230

Height (ft)	82	98	115	131	148	164	180
157.2		88.2	88.2	88.2	88.2	88.2	82.7
151.6	82.7	82.7	82.7	82.7	82.7	77.2	77.2
135.2	60.6	55.1	55.1	55.1	55.1	55.1	55.1
118.8	49.6	49.6	49.6	49.6	49.6	49.6	49.6
102.4	49.6	49.6	49.6	49.6	49.6	49.6	49.6
86	49.6	49.6	49.6	49.6	49.6	49.6	49.6
69.6	49.6	49.6	49.6	49.6	49.6	49.6	49.6
53.2	49.6	49.6	49.6	49.6	49.6	49.6	49.6
36.8	49.6	49.6	49.6	49.6	49.6	49.6	49.6

(Ust) / 5.2 ft - S 41A

Height (ft)	82	98	115	131	148	164	180
175.9		125.7	125.7	125.7	125.7	125.7	125.7
170.6	119.1	119.1	119.1	119.1	119.1	119.1	112.4
154.2	92.6	92.6	92.6	92.6	86	86	86
137.8	66.1	66.1	66.1	66.1	59.5	59.5	59.5
121.4	46.3	46.3	46.3	46.3	46.3	46.3	46.3
105	46.3	46.3	46.3	46.3	46.3	46.3	46.3
88.6	46.3	46.3	46.3	46.3	46.3	46.3	46.3
72.2	46.3	46.3	46.3	46.3	46.3	46.3	46.3
55.8	46.3	46.3	46.3	46.3	46.3	46.3	46.3
39.4	46.3	46.3	46.3	46.3	46.3	46.3	46.3

Load curves



▲▲▲▲▲ (ft)		49	56	66	72	82	89	98	105	115	121	131	138	148	154	164	171	180	ft	
▲▲▲▲	6.6 USt	▲▲▲▲						▲▲▲▲												
▲▲▲▲	3.3 USt	▲▲▲▲						▲▲▲▲												
180	9.2 → 53.8	97.5 - 108.3	6.6	6.3	5.3	4.7	4.1	3.7	3.3	3.3	3.1	2.9	2.65	2.5	2.2	2.05	1.8	1.6	1.4	USt
	9.2 → 53.8	97.4 - 108.3	6.6	6.3	5.3	4.7	4.1	3.7	3.3	3.3	3.1	2.9	2.65	2.5	2.3	2.1	1.85	1.7	1.5	USt P+
164	9.2 → 53.5	96.9 - 108.3	6.6	6.3	5.3	4.7	4	3.7	3.3	3.3	3.1	2.9	2.65	2.5	2.3	2.2	2.05		USt	
	9.2 → 53.5	96.9 - 108.3	6.6	6.3	5.3	4.7	4	3.7	3.3	3.3	3.1	2.9	2.65	2.5	2.3	2.2	2.05		USt P+	
148	9.2 → 53.8	97.2 - 108.3	6.6	6.3	5.3	4.7	4.1	3.7	3.3	3.3	3.1	2.9	2.65	2.5	2.3				USt	
	9.2 → 53.8	97.2 - 108.3	6.6	6.3	5.3	4.7	4.1	3.7	3.3	3.3	3.1	2.9	2.65	2.5	2.3				USt P+	
131	9.2 → 54.5	97 - 108.3	6.6	6.4	5.3	4.7	4	3.7	3.3	3.3	3.1	2.9	2.65						USt	
	9.2 → 54.5	97 - 108.3	6.6	6.4	5.3	4.7	4	3.7	3.3	3.3	3.1	2.9	2.65						USt P+	
115	9.2 → 55.1	99.5 - 110.2	6.6	6.4	5.4	4.8	4.2	3.8	3.3	3.3	3.2								USt	
	9.2 → 55.1	99.5 - 110.2	6.6	6.4	5.4	4.8	4.2	3.8	3.3	3.3	3.2								USt P+	
98	9.2 → 56.8		6.6	6.6	5.6	4.9	4.2	3.8	3.3										USt	
	9.2 → 56.8		6.6	6.6	5.6	4.9	4.2	3.8	3.3										USt P+	
82	9.2 → 56.8		6.6	6.6	5.6	4.9	4.2												USt	
	9.2 → 56.8		6.6	6.6	5.6	4.9	4.2												USt P+	

$W = W - 0.43 USt \text{ max.}$



▲▲▲▲▲ (ft)		49	56	66	72	82	89	98	105	115	121	131	138	148	154	164	171	180	ft	
▲▲▲▲	6.6 USt	▲▲▲▲						▲▲▲▲												
▲▲▲▲	3.3 USt	▲▲▲▲						▲▲▲▲												
180	7.2 → 55.1	102.7 - 105	6.6	6.5	5.5	4.9	4.3	3.9	3.5	3.3	2.95	2.75	2.5	2.35	2.1	1.9	1.65	1.45	1.3	USt
	7.2 → 55.1	102.6 - 105	6.6	6.5	5.5	4.9	4.3	3.9	3.5	3.3	2.95	2.75	2.5	2.35	2.15	1.95	1.75	1.55	1.35	USt P+
164	7.2 → 55.1	102.1 - 103.8	6.6	6.5	5.5	4.9	4.3	3.9	3.4	3.3	2.95	2.75	2.5	2.35	2.15	2.05	1.9			USt
	7.2 → 55.1	102.1 - 103.8	6.6	6.5	5.5	4.9	4.3	3.9	3.4	3.3	2.95	2.75	2.5	2.35	2.15	2.05	1.9			USt P+
148	7.2 → 55.1	102.4 - 104	6.6	6.5	5.5	4.9	4.3	3.9	3.5	3.3	2.95	2.75	2.5	2.35	2.15				USt	
	7.2 → 55.1	102.4 - 104	6.6	6.5	5.5	4.9	4.3	3.9	3.5	3.3	2.95	2.75	2.5	2.35	2.15				USt P+	
131	7.2 → 55.8	102.1 - 103.8	6.6	6.6	5.5	4.9	4.3	3.9	3.5	3.3	2.95	2.75	2.5						USt	
	7.2 → 55.8	102.1 - 103.8	6.6	6.6	5.5	4.9	4.3	3.9	3.5	3.3	2.95	2.75	2.5						USt P+	
115	7.2 → 56.8	104.7 - 106.5	6.6	6.6	5.6	5.1	4.4	4	3.6	3.3	3								USt	
	7.2 → 56.8	104.7 - 106.5	6.6	6.6	5.6	5	4.4	4	3.6	3.3	3								USt P+	
98	7.2 → 58.4		6.6	6.6	5.8	5.1	4.4	4	3.5										USt	
	7.2 → 58.4		6.6	6.6	5.8	5.1	4.4	4	3.5										USt P+	
82	7.2 → 58.4		6.6	6.6	5.8	5.1	4.4												USt	
	7.2 → 58.4		6.6	6.6	5.8	5.1	4.4												USt P+	

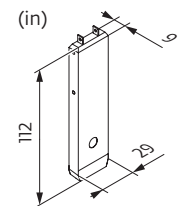
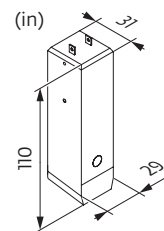
$W = W - 0.09 USt \text{ max.}$

Jib weight & counter-jib ballast

▲▲▲▲	▲▲▲▲▲ (lb) - 25 LVF (+/- 5%)			▲▲▲▲		▲▲▲ (lb)
	▲▲▲▲	▲▲▲	▲▲▲▲	7,937 lb	2,425 lb	
180 ft	16,887	16,623	17,269	3	6	38,360
164 ft	16,455	16,191	16,837	3	5	35,935
148 ft	15,937	15,673	16,319	3	4	33,510
131 ft	15,280	15,016	15,662	3	3	31,085
115 ft	14,520	14,255	14,901	3	2	28,660
98 ft	13,958	13,693	14,339	3	1	26,235
82 ft	13,327	13,062	13,708	3	0	23,810

CAU - 7,937 lb






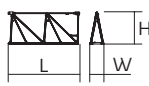
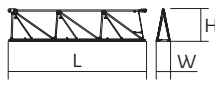

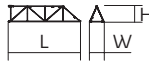
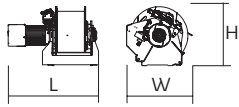
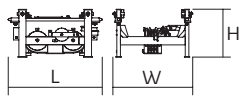

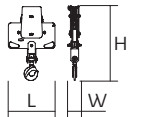

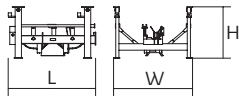

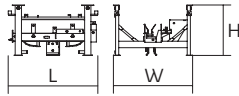


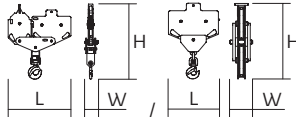


CAV - 2,425 lb

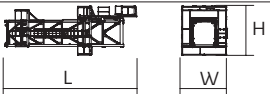
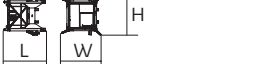


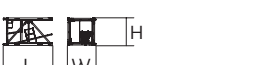
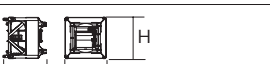





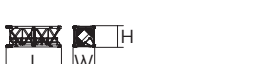



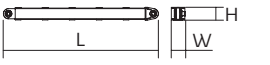
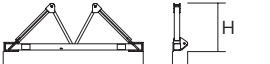



Dimensions and weight

Slewing crane part:  180 ft -  -  -  25 LVF



Slewing crane part		L (ft)	W (ft)	H (ft)	lb (+/- 5%)	
Counter-jib		 3.9 ft	39.2	6.8	8.1	12,302
		 5.2 ft	39.2	7.1	8.9	12,633
Towerhead + cab		Ultra View	10.4	6.5	11.9	2,194
Jib section		① 25 LVF 6 DVF	34.8	8.8	8.6	7,253
Jib section		④	17	3.4	6.3	886
		⑤	17	3.4	6.3	756
		⑥	17	3.4	6.2	756
		⑧	16.9	3.4	3.9	503
Jib section		②	33.5	3.4	7.7	3,025
Jib section		③	17	3.4	7.6	992
		⑦	16.9	3.4	6.2	646
Jib section		⑨	16.7	3.4	3.8	417
Hoisting winch (+ rope)		25 LVF	4.4	2.3	2.3	1,687
		33 LVF	4.5	3	2.9	2,127
Trolley		 6.6 Ust	5.2	4.4	2.9	617
Pulley block		 6.6 Ust	3	0.9	4.3	628
Trolley		 6.6 Ust	4.6	4.1	3.1	617
Trolley		 6.6 Ust	4.7	4.1	3.1	617
		 3.3 Ust	5	4.3	3.1	518
Pulley block		 6.6 Ust	4.1	0.9	5	551
		 3.3 Ust	2.6	0.7	4.2	287

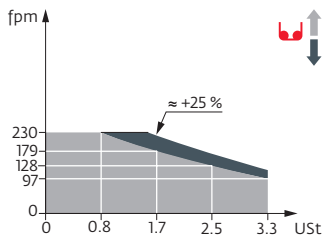
Crane tower			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Telescopic cage T 41		□ 5.2 ft	35.6	12.3	13.5	15,653
K40/K40-2		□ 5.2 ft	7.3	6.9	6.8	2,932
K 447E KM 447E KM 449E			33.5 33.5 33.5	5.3 5.3 5.3	5.3 5.3 5.3	7,474 7,088 8,830
K 447A KMT 447A K 449A KMT 449A		□ 5.2 ft	17.1 17.1 17.1 17.1	5.5 5.5 5.5 5.5	5.3 5.3 5.3 5.3	4,079 3,847 4,916 4,696
K 447C KMT 447C			11.3 11.6	5.5 5.5	5.3 5.3	2,998 2,976
K20/K40		□ 3.9/5.2 ft	5.6	5.4	5.4	4,189
KM 247E KM 249E		□ 3.9 ft	33.5 33.5	4 4	4 4	7,165 8,818
KM 247A KM 249A			17.1 17.1	4 4	4 4	3,748 4,630
K40/L20-2		□ 5.2/3.9 ft	9.7	6.8	6.9	4,630
S 28ES-2 SR 26E-2 SR 28ER-2			35.3 35.3 35.3	4.2 4.2 4.2	4.2 4.2 4.2	7,604 6,735 9,050
SR 25F-2		□ 3.9 ft	25.4	4.2	4.2	4,447
SR 26X-2			10.7	4.1	4.1	2,169
Fixing angles		P 12D P 12ER P 24A / P 42A	1.6 2.6 1.8	1.6 2.6 1.8	3.7 4.3 3.8	357 926 529
Basic mast unit		S 41A	11.9	6.4	6.8	7,132
Struts		S 41A	10.4	0.9	0.8	816
Half-bearer		S 41A	16.7	2	5.8	2,315
Cross girder		ZC 2030 ZD 2030 ZC 4230 ZD 4230	18.5 21.7 18.5 21.8	2.7 2.7 2.7 2.7	3.8 3.8 3.4 3.4	3,307 3,726 3,505 4,035
Cross girder		ZC 2030 ZD 2030 ZC 4230 ZD 4230	18.5 21.7 18.5 21.8	1.5 1.5 1.5 1.5	4.8 4.8 4.4 4.4	3,825 4,255 4,178 4,707

Mechanisms

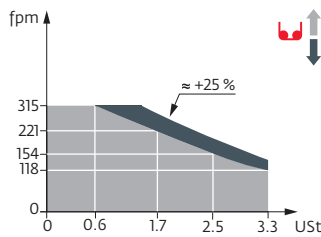
480 V - 60 Hz											hp	kW	
	25 LVF 15 Optima	fpm	97	128	179	230	49	66	92	115	25	18	912 ft
		USt	3.3	2.5	1.7	0.8	6.6	5	3.3	1.8			
	33 LVF 15 Optima	fpm	118	154	221	315	59	79	116	157	33	22	1,001 ft
		USt	3.3	2.5	1.7	0.6	6.6	5	3.3	1.4			
	6 DVF 4 Optima	fpm	0 → 262 (6.6 USt) 0 → 328 (2.2 USt)								5.5	4	
	RVF 152 Optima+	rpm	0 → 0.8								2 x 5.5	2 x 4	

	IEC 60204-32	kVA
480 V (+6% -10%) 60 Hz		25 LVF: 34 → 24 kVA 33 LVF: 41 → 28 kVA

25 LVF 15 Optima



33 LVF 15 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
- Total ballast weight
- Travelling
- Standard equipment
- Jib weight
- Required power
- Options
- Lorry 44 ft
- Power Control Function: winch speeds adapted to the available power
- Potain Plus function: Plus load curves
- Container High Cube 40 ft, and/or Flat Rack 20 ft
- Consult us
- Hook heights with Plus load curves
- Hoisting
- Reactions in service
- Trolleying
- Reactions out of service
- Slewing

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

