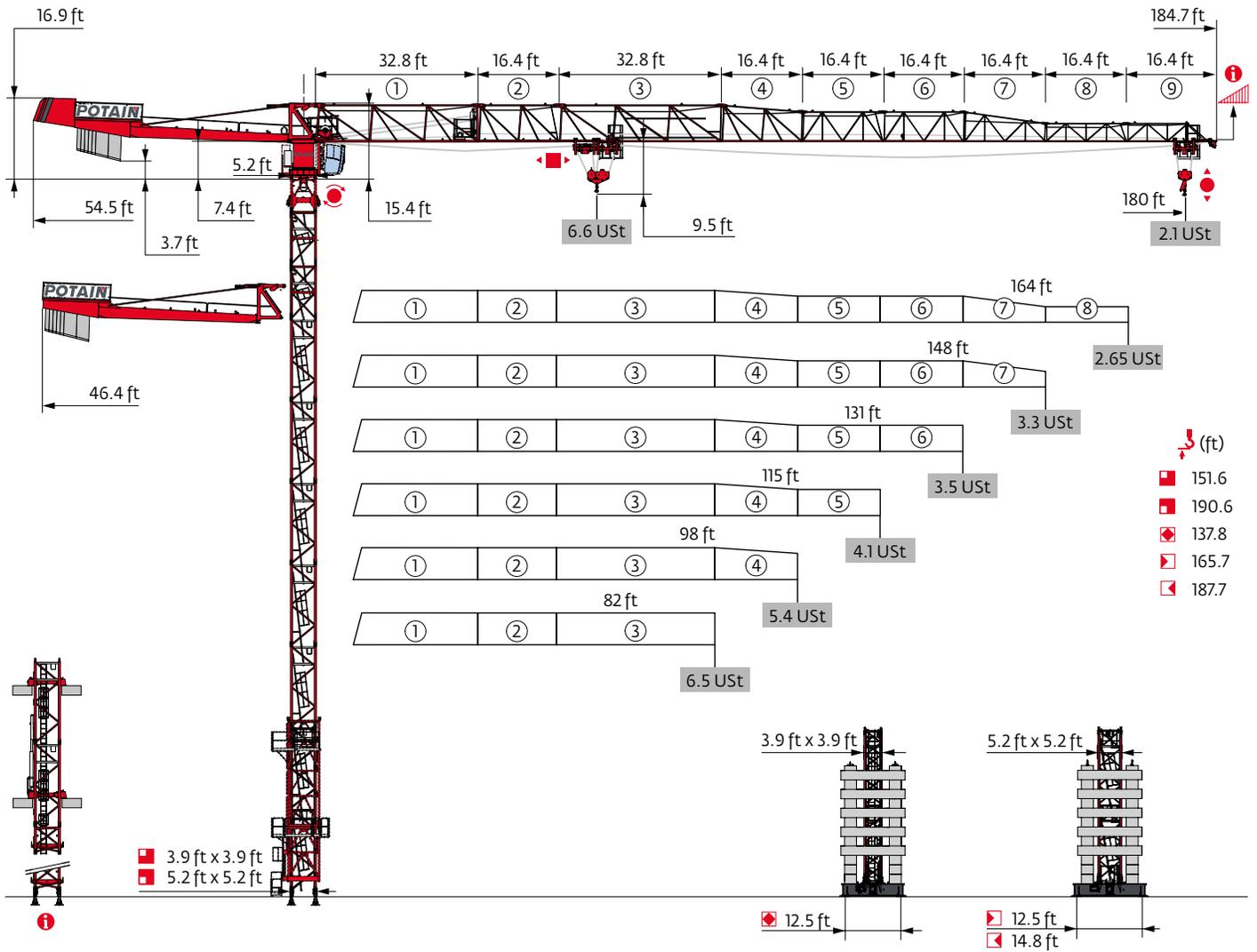
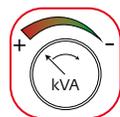


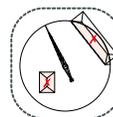
MDT 139



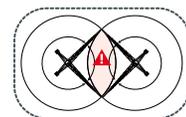
Potain Plus Power Control



Top Site



Anti-collision systems



Automatic Rotation Control



Mast - Reactions

3.9 ft City - P 24A

Height (ft)	82	98	115	131	148	164	180
Height (ft)	135.2	135.2	151.6	135.2	135.2	135.2	135.2
Height/P ₊ (ft)	102.4	102.4	102.4	102.4	102.4	135.2	135.2
10.9 ft	1	1	1	1	1	1	1
16.4 ft	6	6	7	6	6	6	6
32.8 ft	1	1	1	1	1	1	1
F2 (Ust)	● 127 ■ 153	127 152	139 200	128 161	132 158	135 157	136 165
F3 (Ust)	● 100 ■ 130	99 128	110 174	99 136	103 132	104 130	105 138

3.9 ft City - ZC 240 - []

Height (ft)	82	98	115	131	148	164	180
Height (ft)	137.8	137.8	137.8	137.8	121.4	121.4	121.4
Height/P ₊ (ft)	121.4	105	105	105	105	121.4	121.4
10.9 ft	1	1	1	1	1	1	1
16.4 ft	8	8	8	8	7	7	7
F1 (Ust)	● 73 ■ 76	73 76	73 80	73 80	68 65	69 65	69 67

5.2 ft City - P 42A

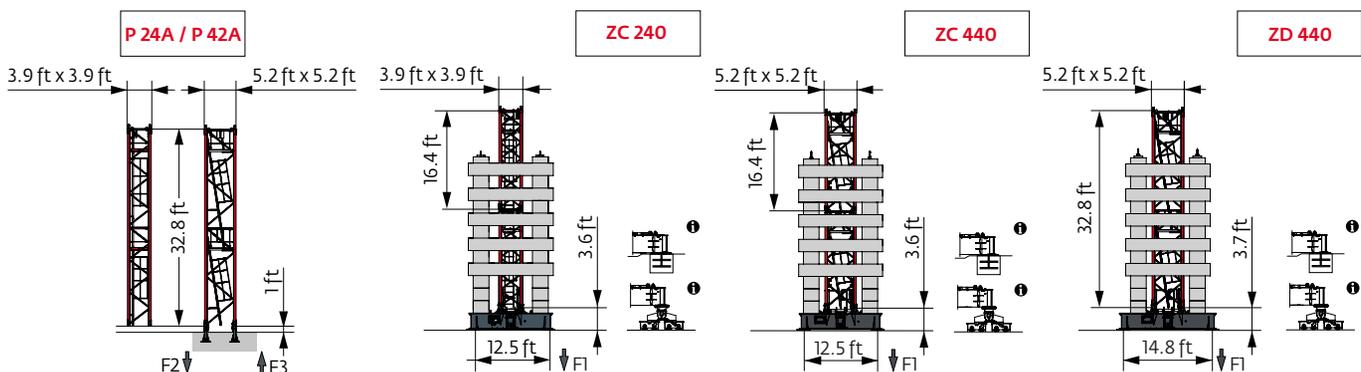
Height (ft)	82	98	115	131	148	164	180
Height (ft)	190.6	190.6	190.6	190.6	179.5	179.5	179.5
Height/P ₊ (ft)	190.6	190.6	190.6	190.6	179.5	179.5	179.5
10.9 ft	1	1	1	1	0	0	0
16.4 ft	9	9	9	9	9	9	9
32.8 ft	1	1	1	1	1	1	1
F2 (Ust)	● 134 ■ 220	134 220	133 226	135 227	131 199	130 198	131 205
F3 (Ust)	● 105 ■ 194	104 193	103 199	104 199	100 171	98 169	99 176

5.2 ft City - ZC 440 - []

Height (ft)	82	98	115	131	148	164	180
Height (ft)	165.7	165.7	165.7	165.7	160.4	160.4	160.4
Height/P ₊ (ft)	165.7	165.7	165.7	165.7	160.4	160.4	160.4
10.9 ft	0	0	0	0	1	1	1
16.4 ft	10	10	10	10	9	9	9
F1 (Ust)	● 88 ■ 108	89 108	88 112	89 112	90 105	91 104	91 109

5.2 ft City - ZD 440 - []

Height (ft)	82	98	115	131	148	164	180
Height (ft)	187.7	187.7	182.1	182.1	182.1	176.8	176.8
Height/P ₊ (ft)	187.7	187.7	182.1	182.1	182.1	176.8	176.8
10.9 ft	2	2	0	0	0	1	1
16.4 ft	8	8	9	9	9	8	8
32.8 ft	1	1	1	1	1	1	1
F1 (Ust)	● 89 ■ 120	89 120	86 114	87 114	89 113	85 106	85 110



5.2 ft - P 42A							
Height (ft)	82	98	115	131	148	164	180
Height (ft)	186	186	186	186	180.8	175.2	175.2
Height/P _r (ft)	186	186	186	186	180.8	175.2	175.2
6.6 ft	1	1	1	1	1	1	1
10.9 ft	0	0	0	0	1	2	2
16.4 ft	9	9	9	9	8	7	7
32.8 ft	1	1	1	1	1	1	1
F2 (USt)	● 136	136	135	137	138	133	134
	■ 228	227	234	234	223	211	218
F3 (USt)	● 104	102	101	102	103	98	98
	■ 198	197	203	203	191	179	185

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 / 3.9 ft City - ZC 240 -							
Height (ft)	82	98	115	131	148	164	180
137.8	99.2	99.2	99.2	99.2			
121.4	88.2	88.2	77.2	88.2	88.2	88.2	88.2
105	77.2	77.2	77.2	77.2	77.2	77.2	77.2
88.6	77.2	77.2	66.1	66.1	66.1	55.1	55.1
72.2	66.1	66.1	66.1	66.1	66.1	55.1	55.1
55.8	66.1	66.1	66.1	66.1	66.1	55.1	44.1
39.4	66.1	66.1	66.1	66.1	66.1	55.1	44.1

USt / 5.2 ft City - ZC 440 -							
Height (ft)	82	98	115	131	148	164	180
165.7	132.3	132.3	132.3	132.3			
160.4	132.3	132.3	121.3	132.3	132.3	137.8	137.8
144	110.2	110.2	110.2	110.2	121.3	121.3	121.3
127.6	88.2	88.2	88.2	88.2	99.2	99.2	99.2
111.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
94.8	77.2	66.1	66.1	66.1	66.1	66.1	66.1
78.4	66.1	66.1	66.1	66.1	66.1	55.1	55.1
62	66.1	66.1	66.1	66.1	66.1	55.1	55.1
45.6	66.1	66.1	66.1	66.1	66.1	55.1	55.1

USt / 5.2 ft City - ZD 440 -							
Height (ft)	82	98	115	131	148	164	180
187.7	137.8	137.8					
182.1	132.3	121.3	132.3	132.3	132.3		
176.8	121.3	121.3	121.3	121.3	121.3	121.3	121.3
160.4	99.2	99.2	99.2	99.2	110.2	110.2	110.2
144	88.2	88.2	77.2	77.2	88.2	88.2	88.2
127.6	66.1	66.1	66.1	66.1	77.2	77.2	77.2
111.2	55.1	55.1	55.1	55.1	55.1	55.1	55.1
94.8	55.1	55.1	44.1	44.1	44.1	44.1	44.1
78.4	55.1	55.1	44.1	44.1	44.1	33.1	33.1
62	55.1	55.1	44.1	44.1	44.1	33.1	33.1
45.6	55.1	55.1	44.1	44.1	44.1	33.1	33.1

Load curves



(ft)			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 → 67	116 - 126	6.6	6.6	6	5.2	4.8	4.2	3.8	3.4	3.3	3.1	2.95	2.7	2.5	2.3	2.15	1.95	USt	
	9 → 68	118 - 130	6.6	6.6	6.2	5.3	4.8	4.2	3.9	3.4	3.3	3.3	3.1	2.8	2.65	2.45	2.3	2.1	USt P+	
164	9 → 73	123 - 135	6.6	6.6	6.6	5.7	5.1	4.5	4.1	3.6	3.4	3.3	3.2	2.95	2.8	2.55			USt	
	9 → 74	127 - 138	6.6	6.6	6.6	5.8	5.3	4.6	4.2	3.8	3.5	3.3	3.3	3.1	2.9	2.65			USt P+	
148	9 → 71	126 - 140	6.6	6.6	6.4	5.6	5.1	4.5	4.2	3.7	3.5	3.3	3.3	3.1					USt	
	9 → 77	135 - 148	6.6	6.6	6.6	6.1	5.6	5	4.6	4.1	3.8	3.4	3.3	3.3					USt P+	
131	9 → 68	122 - 131	6.6	6.6	6.2	5.4	4.9	4.3	4	3.6	3.3	3.3							USt	
	9 → 74		6.6	6.6	6.6	5.9	5.4	4.8	4.4	3.9	3.7	3.3							USt P+	
115	9 → 68		6.6	6.6	6.2	5.4	4.9	4.3	4	3.6									USt	
	9 → 74		6.6	6.6	6.6	5.9	5.4	4.8	4.4	3.9									USt P+	
98	9 → 73		6.6	6.6	6.6	5.8	5.3	4.7											USt	
	9 → 80		6.6	6.6	6.6	6.4	5.9	5.2											USt P+	
82	9 → 72		6.6	6.6	6.6	5.7													USt	
	9 → 79		6.6	6.6	6.6	6.3													USt P+	

= - 0.42 USt max.



(ft)			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 → 69	121 - 121	6.6	6.6	6.2	5.4	5	4.4	4	3.6	3.3	3	2.8	2.55	2.4	2.15	2.05	1.85	USt	
	7 → 70	124 - 125	6.6	6.6	6.4	5.5	5	4.4	4.1	3.7	3.4	3.1	2.95	2.7	2.5	2.3	2.2	1.95	USt P+	
164	7 → 75	128 - 131	6.6	6.6	6.6	5.9	5.3	4.7	4.3	3.8	3.6	3.3	3.1	2.8	2.65	2.45			USt	
	7 → 76	133 - 133	6.6	6.6	6.6	6	5.5	4.8	4.4	4	3.7	3.4	3.2	2.95	2.75	2.55			USt P+	
148	7 → 73	132 - 135	6.6	6.6	6.6	5.8	5.3	4.7	4.4	3.9	3.7	3.3	3.2	2.95					USt	
	7 → 79	141 - 142	6.6	6.6	6.6	6.4	5.8	5.2	4.8	4.3	4	3.6	3.4	3.2					USt P+	
131	7 → 70	128 - 131	6.6	6.6	6.4	5.6	5.1	4.5	4.2	3.8	3.5	3.3							USt	
	7 → 76		6.6	6.6	6.6	6.1	5.6	5	4.6	4.1	3.9	3.5							USt P+	
115	7 → 70		6.6	6.6	6.4	5.6	5.1	4.5	4.2	3.8									USt	
	7 → 76		6.6	6.6	6.6	6.1	5.6	5	4.6	4.1									USt P+	
98	7 → 75		6.6	6.6	6.6	6	5.5	4.9											USt	
	7 → 82		6.6	6.6	6.6	6.6	6.1	5.4											USt P+	
82	7 → 74		6.6	6.6	6.6	5.9													USt	
	7 → 81		6.6	6.6	6.6	6.5													USt P+	

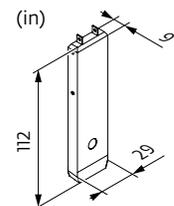
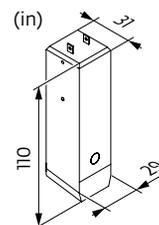
= - 0.08 USt max.

Jib weight & counter-jib ballast

(ft)	(lb) - 33 LVF (+/- 5%)					(lb)
				7,937 lb	2,425 lb	
180 ft	17,365	17,056	17,702	2	5	27,999
164 ft	16,935	16,626	17,272	2	5	27,999
148 ft	16,428	16,119	16,765	2	4	25,574
131 ft	15,778	15,469	16,115	2	3	23,149
115 ft	15,028	14,719	15,365	2	2	20,723
98 ft	14,426	14,118	14,763	2	2	20,723
82 ft	13,626	13,317	13,963	2	1	18,298

CAU - 7,937 lb

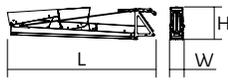
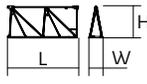
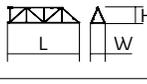
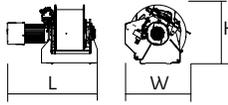
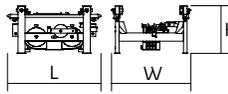
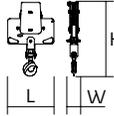
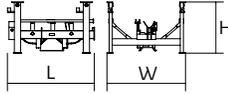
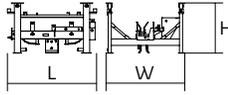
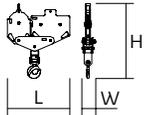
CAV - 2,425 lb

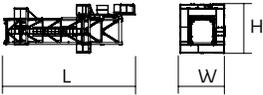
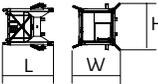
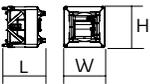
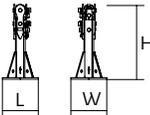
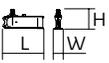
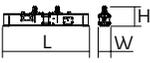


Dimensions and weight

Slewing crane part:  180 ft -  -  -  33 LVF



Slewing crane part		L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Counter-jib		39	3.9	8.2	10,406
Towerhead + cab	 Ultra View	14.2	7.4	8	11,890
Jib section	 ① 33 LVF 6 DVF	35.9	9.6	8.5	7,550
Jib section	 ② ⑤ ⑥ ⑧	17.2 17 17 16.9	3.4 3.4 3.4 3.4	7.7 6.3 6.2 3.9	1,620 886 756 503
Jib section	 ③	33.4	3.4	7.7	2,482
Jib section	 ④ ⑦	17 16.9	3.4 3.4	7.6 6.2	990 646
Jib section	 ⑨	17	3.4	3.8	417
Hoisting winch (+ rope)	 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  3.3 Ust	4.7 5	4.1 4.3	3.1 3.1	617 518
Pulley block	  6.6 Ust  3.3 Ust	4.1 2.6	0.9 0.7	5 4.2	551 287

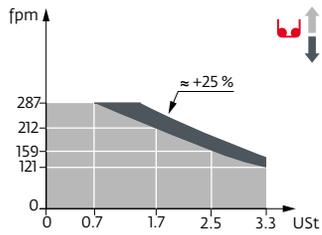
Crane tower		L (ft)	W (ft)	H (ft)	lb (+/- 5%)	
Telescopic cage T41		5.2 ft	35.6	12.3	13.5	15,653
K40/K40-2		5.2 ft	7.3	6.9	6.8	2,932
K 447E KM 447E KRM 449E		5.2 ft	33.5 33.5 33.5	5.3 5.3 5.3	5.3 5.3 5.3	7,474 7,088 9,370
K 447A KMT 447A K 449A KMT 449A		5.2 ft	17.1 17.1 17.1 17.1	5.5 5.5 5.5 5.5	5.3 5.3 5.3 5.3	4,079 3,847 4,916 4,696
KMT 447C		5.2 ft	11.6	5.5	5.3	2,976
K20/K40		3.9/5.2 ft	5.6	5.4	5.4	4,189
KM 247E KRM 249E		3.9 ft	33.5 33.5	4 4	4 4	7,165 9,204
KM 247A KM 249A		3.9 ft	17.1 17.1	4 4	4 4	3,748 4,630
Fixing angles		P 24A / P 42A	1.8	1.8	3.8	529
1/2 Cross girder		ZC 240 ZC 440 ZD 440	9.2 9.2 10.8	1.9 1.9 1.9	4.3 4.3 4.4	2,447 2,447 2,778
Cross girder		ZC 240 ZC 440 ZD 440	19 19 22.2	2.7 2.8 2.8	4.3 4.3 4.3	5,997 5,997 6,702

Mechanisms

480 V - 60 Hz											hp	kW	
	33 LVF 15 Optima	fpm	121	159	212	287	61	80	105	144	33	22	1,001 ft
		USt	3.3	2.5	1.7	0.7	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	41 → 28 kVA	

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 |  | Trolleying | | |
|  | Reactions in service |  | Slewing | | |
|  | Reactions out of service |  | Hoisting | | |

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