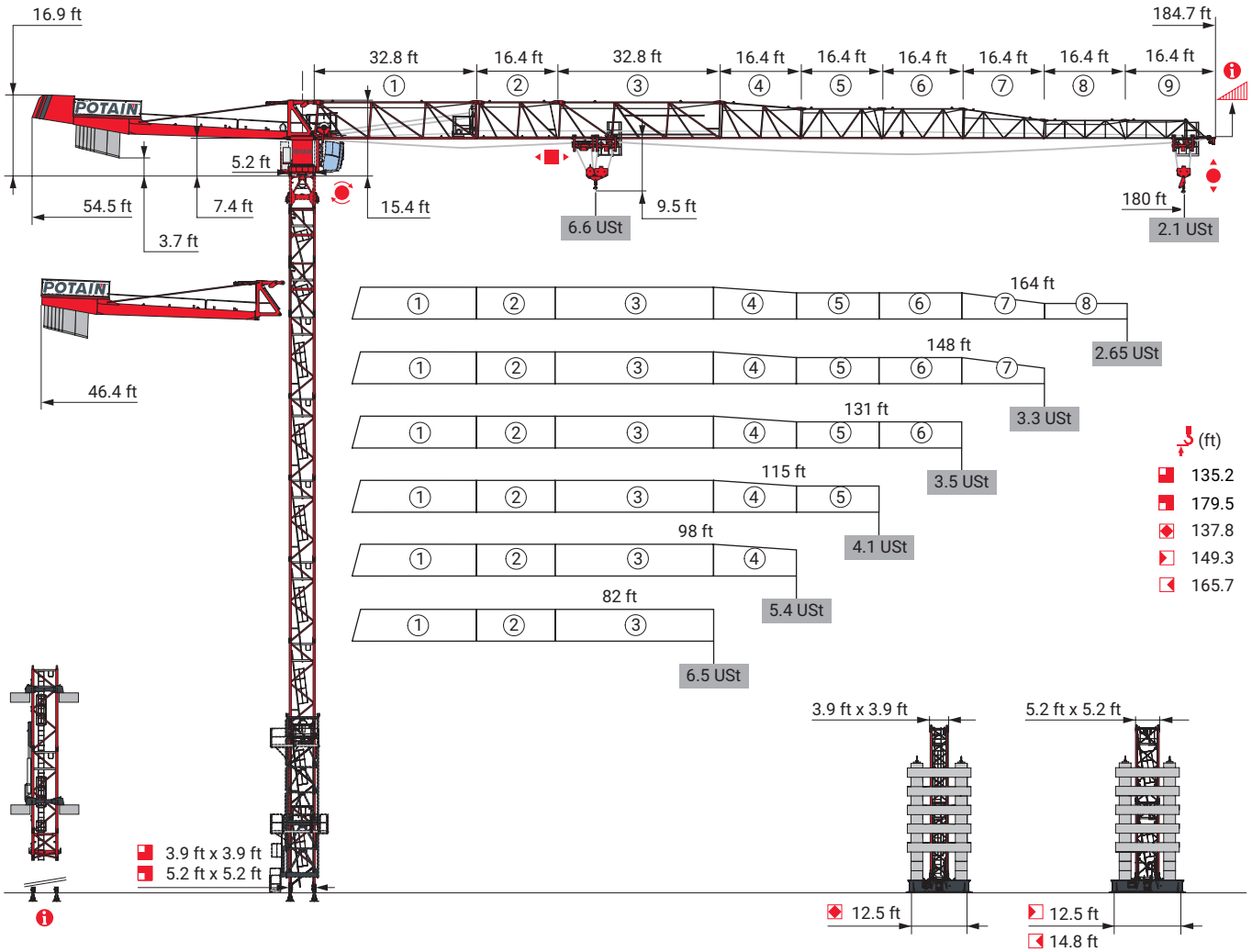
POTAIN®

MDT 139

ASME B30.3-2025



Potain Plus

Power Control

Top Site

Anti-collision systems

Automatic Rotation Control

Values have been rounded.

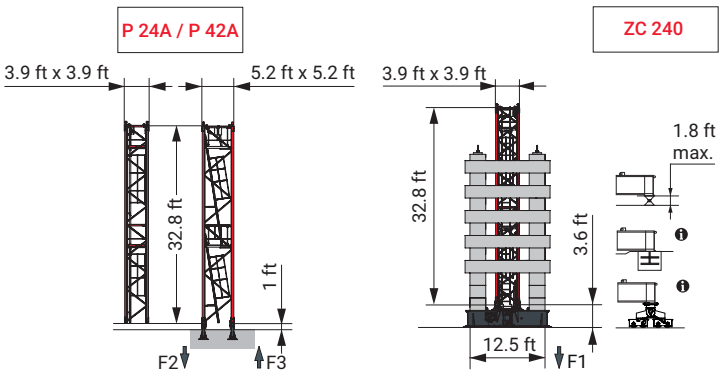
Mast - Reactions

3.9 ft City - P 24A								
(ft)		82	98	115	131	148	164	180
(ft)		135.2	135.2	135.2	135.2	135.2	135.2	135.2
/P+ (ft)		86	86	102.4	102.4	86	135.2	135.2
4.9 ft		1	1	1	1	1	1	1
16.4 ft		8	6	8	8	6	8	8
32.8 ft		0	1	0	0	1	0	0
F2 (USt)	●	145	144	146	147	151	155	158
	■	179	178	188	189	189	187	194
F3 (USt)	●	119	118	119	119	122	125	129
	■	156	154	164	164	164	161	168

3.9 ft City - ZC 240 -								
(ft)		82	98	115	131	148	164	180
(ft)		137.8	137.8	137.8	137.8	121.4	137.8	137.8
/P+ (ft)		88.6	88.6	105	105	88.6	137.8	137.8
4.9 ft		1	1	1	1	1	1	1
16.4 ft		8	6	8	8	7	6	8
32.8 ft		0	1	0	0	0	1	0
F1 (USt)	●	83	83	81	82	75	88	91
	■	104	103	108	108	81	108	112

5.2 ft City - P 42A								
(ft)		82	98	115	131	148	164	180
(ft)		179.5	179.5	179.5	179.5	179.5	179.5	174.2
/P+ (ft)		179.5	179.5	179.5	179.5	179.5	179.5	174.2
10.9 ft		0	0	0	0	0	0	1
16.4 ft		9	9	9	9	9	9	8
32.8 ft		1	1	1	1	1	1	1
F2 (USt)	●	142	142	141	143	147	146	145
	■	229	229	237	238	238	238	230
F3 (USt)	●	114	113	112	113	117	115	114
	■	205	204	212	211	211	210	202

5.2 ft - P 42A								
(ft)		82	98	115	131	148	164	180
(ft)		175.2	175.2	169.6	169.6	169.6	169.6	169.6
/P+ (ft)		175.2	175.2	169.6	169.6	169.6	169.6	169.6
6.6 ft		1	1	1	1	1	1	1
10.9 ft		2	2	0	0	0	0	0
16.4 ft		7	7	8	8	8	8	8
32.8 ft		1	1	1	1	1	1	1
F2 (USt)	●	142	142	135	137	141	139	143
	■	234	234	222	223	223	222	227
F3 (USt)	●	114	113	107	108	111	108	112
	■	209	208	196	196	196	194	199

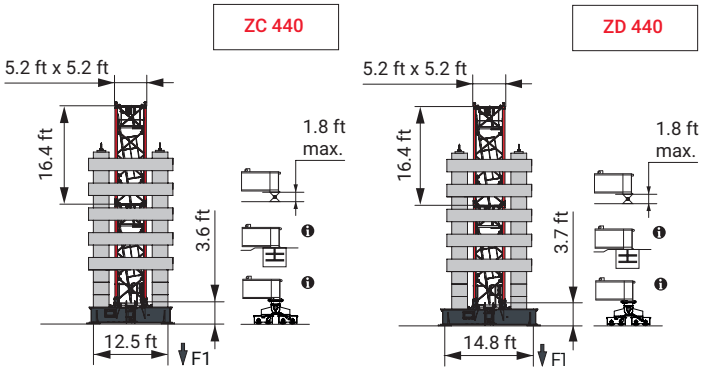


Other mast compositions - Please consult us.

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

5.2 ft City - ZC 440 -							
(ft)	82	98	115	131	148	164	180
(ft)	149.3	149.3	149.3	149.3	149.3	149.3	144
/P+ (ft)	149.3	149.3	149.3	149.3	149.3	149.3	144
10.9 ft	0	0	0	0	0	0	1
16.4 ft	9	9	9	9	9	9	8
F1 (USt) ●	89	90	90	90	92	91	90
F1 (USt) ■	118	117	123	123	123	122	118

5.2 ft City - ZD 440 -							
(ft)	82	98	115	131	148	164	180
(ft)	165.7	165.7	165.7	165.7	165.7	165.7	165.7
/P+ (ft)	165.7	165.7	165.7	165.7	165.7	165.7	165.7
16.4 ft	10	10	10	10	10	10	10
F1 (USt) ●	87	87	89	89	89	89	92
F1 (USt) ■	124	123	128	129	128	127	131



Anchorages

Base ballast

(USt) / 3.9 ft City - ZC 240 -

(ft)	82	98	115	131	148	164	180
137.8	121.3	121.3	110.2	110.2		121.3	132.3
121.4	99.2	99.2	88.2	99.2	99.2	99.2	110.2
105	77.2	88.2	77.2	77.2	77.2	77.2	88.2
88.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
72.2	66.1	66.1	66.1	66.1	66.1	55.1	55.1

(ft)

(USt) / 5.2 ft City - ZC 440 -

(ft)	82	98	115	131	148	164	180
149.3	132.3	132.3	132.3	132.3	132.3	132.3	
144	121.3	121.3	121.3	121.3	121.3	121.3	132.3
127.6	99.2	99.2	99.2	99.2	99.2	99.2	110.2
111.2	77.2	88.2	77.2	77.2	77.2	77.2	88.2
94.8	77.2	77.2	66.1	66.1	66.1	66.1	66.1
78.4	77.2	77.2	66.1	66.1	66.1	55.1	55.1

(ft)

(USt) / 5.2 ft City - ZD 440 -

(ft)	82	98	115	131	148	164	180
165.7	132.3	132.3	137.8	137.8	132.3	132.3	137.8
149.3	99.2	99.2	110.2	110.2	99.2	99.2	110.2
132.9	77.2	77.2	77.2	77.2	77.2	88.2	88.2
116.5	66.1	66.1	66.1	66.1	66.1	66.1	66.1
100.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
83.7	55.1	55.1	55.1	55.1	55.1	44.1	44.1
67.3	55.1	55.1	55.1	55.1	55.1	44.1	33.1

(ft)

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.

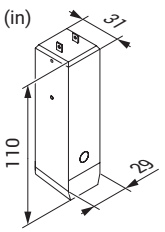
(ft)			56	66	72	82	89	98	105	115	121	131	138	148	154	164	171	180	ft
	6.6 USt	3.3 USt																	
180	7 → 69	121 - 121	6.6	6.6	6.2	5.4	5	4.4	4	3.6	3.3	3	2.8	2.55	2.4	2.15	2.05	1.85	USt
	7 → 70	124 - 125	6.6	6.6	6.4	5.5	5	4.4	4.1	3.7	3.4	3.1	2.95	2.7	2.5	2.3	2.2	1.95	USt P+
164	7 → 75	128 - 131	6.6	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.

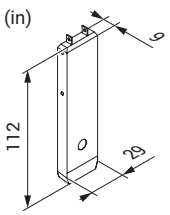
Jib weight and counter-jib ballast

	(lb) (+/- 5%)					
				7,937 lb	2,425 lb	(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



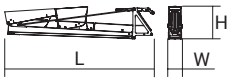
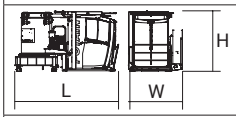
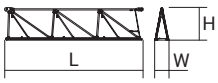
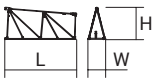
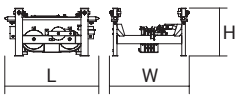
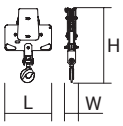
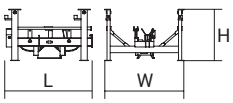
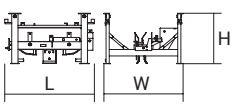
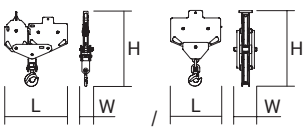
CAV - 2,425 lb

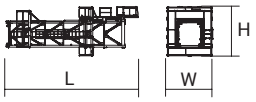
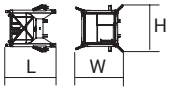
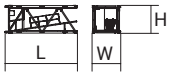
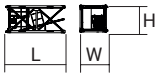
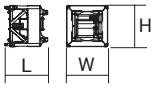
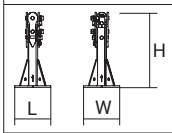
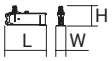


Dimensions and weight

Slewing crane part - 180 ft - - 33 LVF

x 3
x 3

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
	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

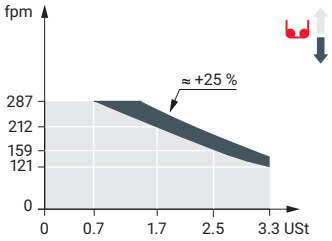
Crane tower			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
	T41	⍁ 5.2 ft	35.6	12.3	13.5	15,653
	K40/K40-2	⍁ 5.2 ft	7.3	6.9	6.8	2,932
	K 447E KM 447E KRM 449E	⍁ 5.2 ft	33.5 33.5 33.5	5.3 5.3 5.3	5.3 5.3 5.3	7,474 7,088 9,370
	K 447A KMT 447A K 449A KMT 449A	⍁ 5.2 ft	17.1 17.1 17.1 17.1	5.5 5.5 5.5 5.5	5.3 5.3 5.3 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
	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
	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

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



The reactions and mast compositions presented in this data sheet meet the specifications of EN 14439:2025 and ASME B30.3-2025 standards.
The “out of service” wind profile is determined in accordance with ASCE 7-22 and ASCE 37-25 specifications as follow:
The “standard” design wind is determined from an ultimate reference wind speed of 115 mph (185 kph) corresponding to an average recurrence interval of 700 years, calculated for an Exposure C category, and combined with a 0.85 reduction factor based on the assumption that the crane is considered as a temporary construction structure used for 2 years or less.
As a result, this “standard” wind profile is covered by the EN 14439:2025 C25 wind profile, which is used to determine all technical data provided in this document.

- 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.

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