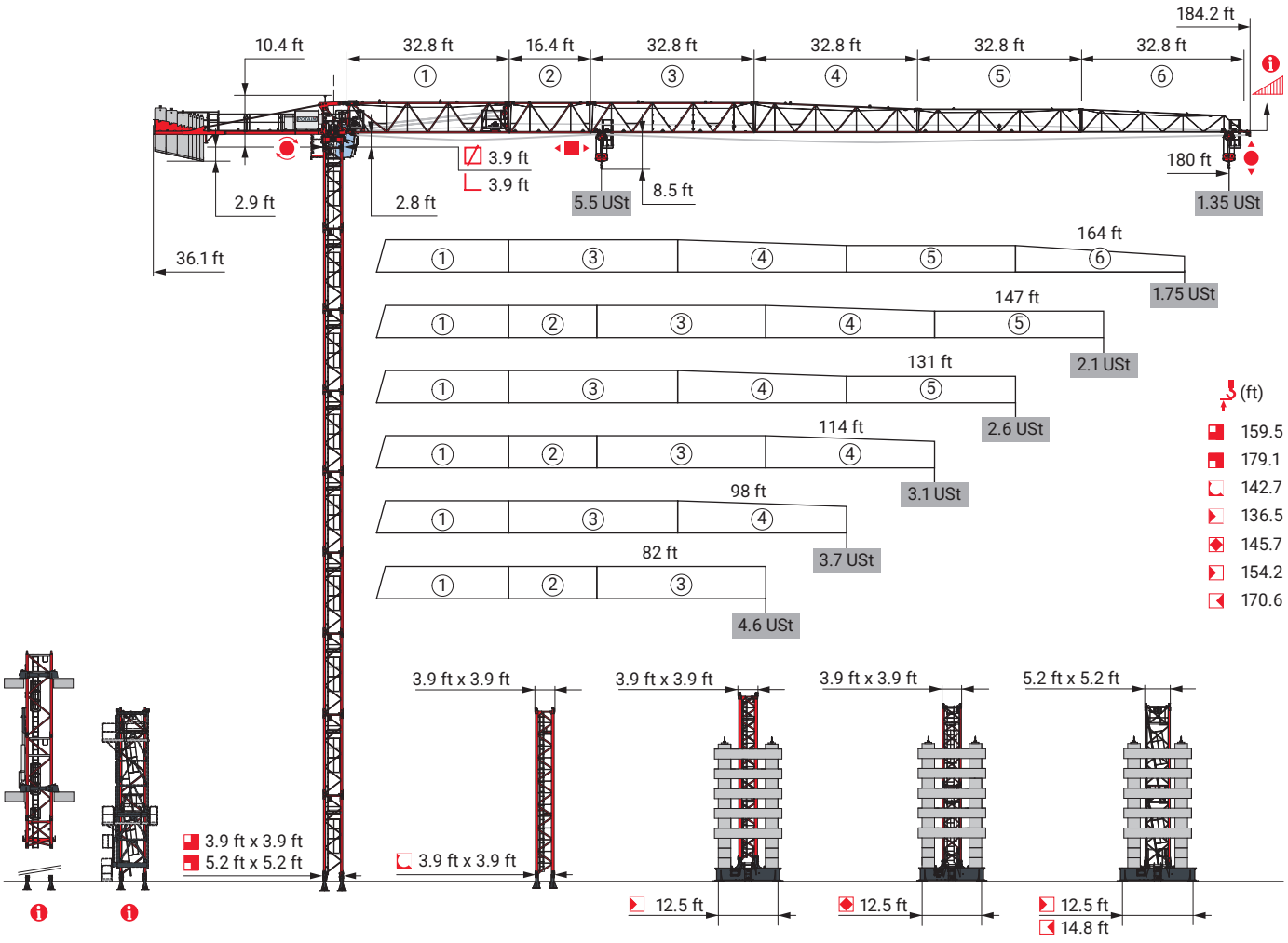
POTAIN®

MDT 99e

ASME B30.3-2025



Potain Plus

Power Control

Top Site

Anti-collision systems

Automatic Rotation Control

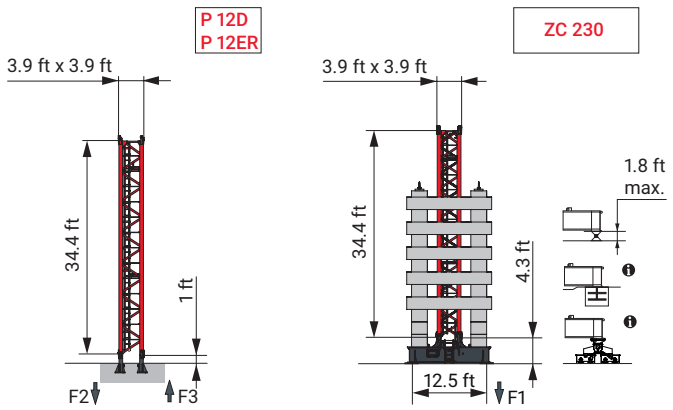
Values have been rounded.

Mast - Reactions

3.9 ft City - P 12D								
(ft)		82	98	114	131	147	164	180
(ft)		108.3	108.3	108.3	108.3	108.3	108.3	118.1
/P+ (ft)		108.3	108.3	108.3	108.3	108.3	108.3	118.1
9.8 ft		1	1	1	1	1	1	2
34.4 ft		3	3	3	3	3	3	3
F2 (USt)	●	93	90	92	91	97	92	108
	■	111	109	110	111	120	118	160
F3 (USt)	●	74	71	71	70	75	70	86
	■	94	92	91	93	101	99	140

3.9 ft City - P 12ER								
(ft)		82	98	114	131	147	164	180
(ft)		142.7	132.9	132.9	132.9	142.7	142.7	132.9
/P+ (ft)		142.7	132.9	132.9	132.9	142.7	142.7	132.9
9.8 ft		1	0	0	0	1	1	0
34.4 ft		4	4	4	4	4	4	4
F2 (USt)	●	123	111	117	116	135	129	126
	■	218	179	180	182	231	222	213
F3 (USt)	●	102	89	94	94	110	105	101
	■	199	160	160	162	209	201	191

3.9 ft City - ZC 230 -								
(ft)		82	98	114	131	147	164	180
(ft)		136.5	136.5	136.5	136.5	136.5	136.5	136.5
/P+ (ft)		136.5	136.5	136.5	136.5	136.5	136.5	136.5
34.4 ft		4	4	4	4	4	4	4
F1 (USt)	●	74	73	75	75	80	75	83
	■	113	109	109	110	120	114	129



Other mast compositions - Please consult us.

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

3.9 ft City - P 24A								
(ft)		82	98	114	131	147	164	180
(ft)		159.5	159.5	159.5	159.5	159.5	159.5	143
/P+ (ft)		159.5	159.5	159.5	159.5	159.5	159.5	143
16.4 ft		8	8	8	8	8	8	9
32.8 ft		1	1	1	1	1	1	0
F2 (USt)	●	130	130	139	138	145	139	130
	■	218	217	219	221	233	229	199
F3 (USt)	●	107	107	113	113	119	113	106
	■	197	196	197	199	209	206	177

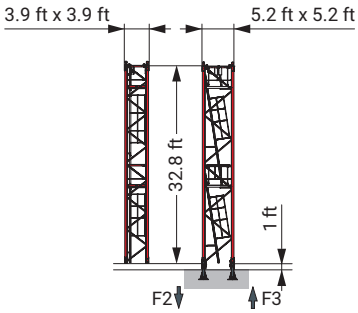
3.9 ft City - ZC 240 -								
(ft)		82	98	114	131	147	164	180
(ft)		145.7	145.7	145.7	145.7	145.7	145.7	145.7
/P+ (ft)		145.7	145.7	145.7	145.7	145.7	145.7	145.7
16.4 ft		9	9	9	9	9	9	9
F1 (USt)	●	71	71	73	73	75	74	79
	■	100	99	98	101	107	105	115

5.2 ft City - P 42A								
(ft)		82	98	114	131	147	164	180
(ft)		179.1	179.1	179.1	179.1	179.1	179.1	173.6
/P+ (ft)		179.1	179.1	179.1	179.1	179.1	179.1	173.6
6.6 ft		1	1	1	1	1	1	1
10.9 ft		1	1	1	1	1	1	2
16.4 ft		8	8	8	8	8	8	7
32.8 ft		1	1	1	1	1	1	1
F2 (USt)	●	111	112	118	117	122	118	120
	■	225	225	226	227	235	233	234
F3 (USt)	●	85	86	90	90	93	90	91
	■	202	202	201	203	210	207	208

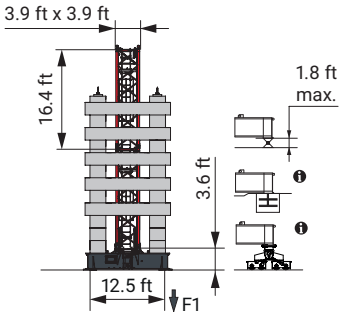
5.2 ft City - ZC 440 -								
(ft)		82	98	114	131	147	164	180
(ft)		154.2	154.2	154.2	154.2	148.6	154.2	143.4
/P+ (ft)		154.2	154.2	154.2	154.2	148.6	154.2	143.4
6.6 ft		1	1	1	1	1	1	1
10.9 ft		0	0	0	0	1	0	2
16.4 ft		9	9	9	9	8	9	7
F1 (USt)	●	80	80	81	81	81	83	81
	■	126	125	125	126	123	130	123

5.2 ft City - ZD 440 -								
(ft)		82	98	114	131	147	164	180
(ft)		170.6	170.6	170.6	170.6	165	170.6	159.8
/P+ (ft)		170.6	170.6	170.6	170.6	165	170.6	159.8
6.6 ft		1	1	1	1	1	1	1
10.9 ft		0	0	0	0	1	0	2
16.4 ft		10	10	10	10	9	8	8
32.8 ft		0	0	0	0	0	1	0
F1 (USt)	●	79	79	80	82	81	82	80
	■	130	129	129	130	127	133	128

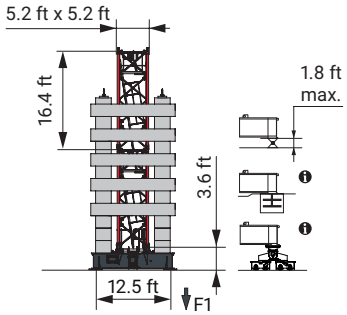
P 24A / P 42A



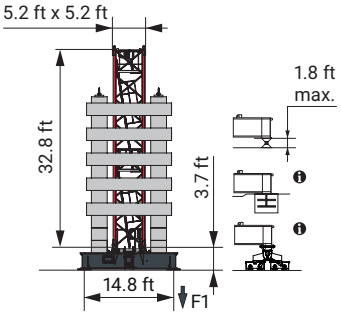
ZC 240



ZC 440



ZD 440



Anchorages

Base ballast

(USt) / 3.9 ft City - ZC 230 -								
(ft)	82	98	114	131	147	164	180	
136.5	121.3	121.3	121.3	121.3	132.3	121.3	137.8	
102	66.1	66.1	66.1	66.1	66.1	66.1	66.1	
67.6	44.1	44.1	44.1	33.1	33.1	33.1	44.1	

(USt) / 3.9 ft City - ZC 240 -								
(ft)	82	98	114	131	147	164	180	
145.7	110.2	110.2	110.2	110.2	110.2	110.2	121.3	
129.3	88.2	88.2	88.2	88.2	88.2	88.2	88.2	
112.9	66.1	66.1	66.1	66.1	66.1	66.1	66.1	
96.5	55.1	55.1	55.1	55.1	55.1	55.1	55.1	
80.1	44.1	44.1	44.1	44.1	33.1	33.1	44.1	
63.7	44.1	44.1	33.1	33.1	33.1	33.1	44.1	

(USt) / 5.2 ft City - ZC 440 -								
(ft)	82	98	114	131	147	164	180	
154.2	137.8	137.8	132.3	132.3		137.8		
148.6	132.3	121.3	121.3	121.3	132.3	132.3		
143.4	121.3	110.2	110.2	110.2	121.3	121.3	132.3	
127	88.2	88.2	88.2	88.2	88.2	88.2	99.2	
110.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1	
94.2	55.1	55.1	55.1	55.1	44.1	55.1	44.1	
77.8	44.1	44.1	44.1	44.1	33.1	33.1	44.1	
61.4	44.1	33.1	33.1	33.1	33.1	33.1	44.1	

(USt) / 5.2 ft City - ZD 440 -								
(ft)	82	98	114	131	147	164	180	
170.6	137.8	137.8	132.3	137.8		137.8		
165	132.3	132.3	132.3	132.3	132.3	132.3		
159.8	121.3	121.3	121.3	121.3	121.3	121.3	132.3	
143.4	88.2	88.2	88.2	88.2	88.2	88.2	99.2	
127	66.1	66.1	66.1	66.1	66.1	66.1	66.1	
110.6	55.1	55.1	55.1	55.1	44.1	44.1	44.1	
94.2	44.1	44.1	44.1	44.1	33.1	33.1	33.1	
77.8	33.1	33.1	33.1	33.1	22.1	22.1	33.1	
61.4	33.1	22.1	22.1	22.1	22.1	22.1	33.1	

Load curves

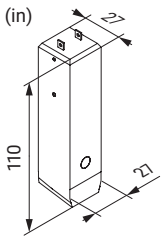
DMP

(ft)		49	55	65	72	82	88	98	104	114	121	131	137	147	154	164	170	180	ft
	5.5 USt																		
180	7 → 52	5.5	5.2	4.3	3.9	3.4	3.15	2.8	2.6	2.3	2.15	2	1.85	1.7	1.6	1.5	1.4	1.3	USt
	7 → 52	5.5	5.2	4.3	3.9	3.4	3.15	2.8	2.6	2.3	2.2	2	1.85	1.7	1.65	1.5	1.45	1.35	USt P+
164	7 → 57	5.5	5.5	4.8	4.4	3.8	3.5	3.15	2.95	2.65	2.5	2.3	2.15	2	1.9	1.75	USt		
	7 → 57	5.5	5.5	4.8	4.4	3.8	3.5	3.15	2.95	2.65	2.5	2.3	2.15	2	1.9	1.75	USt P+		
147	7 → 62	5.5	5.5	5.2	4.7	4.1	3.8	3.4	3.1	2.8	2.65	2.4	2.3	2.1	USt				
	7 → 62	5.5	5.5	5.2	4.7	4.1	3.8	3.4	3.1	2.8	2.65	2.4	2.3	2.1	USt P+				
131	7 → 62	5.5	5.5	5.2	4.8	4.2	3.9	3.5	3.3	3	2.8	2.6	USt						
	7 → 62	5.5	5.5	5.2	4.8	4.2	3.9	3.5	3.3	3	2.8	2.6	USt P+						
114	7 → 65	5.5	5.5	5.5	5	4.4	4.1	3.6	3.4	3.1	USt								
	7 → 65	5.5	5.5	5.5	5	4.4	4.1	3.6	3.4	3.1	USt P+								
98	7 → 65	5.5	5.5	5.5	5	4.5	4.2	3.7	USt										
	7 → 65	5.5	5.5	5.5	5	4.5	4.2	3.7	USt P+										
82	7 → 67	5.5	5.5	5.5	5.2	4.6	USt												
	7 → 67	5.5	5.5	5.5	5.2	4.6	USt P+												

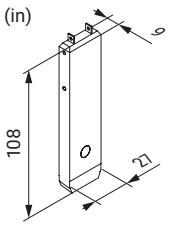
Jib weight and counter-jib ballast

	(lb) (+/- 5%)	6,614 lb	2,205 lb	(lb)
180 ft	14,110	3	4	28,662
164 ft	12,787	3	4	28,662
147 ft	13,448	3	4	28,662
131 ft	12,125	3	3	26,457
114 ft	12,125	3	3	26,457
98 ft	10,803	3	1	22,047
82 ft	10,803	3	0	19,842

CBP - 6,614 lb



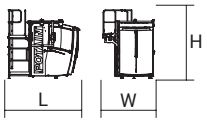
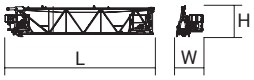
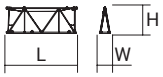
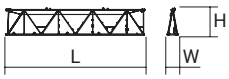
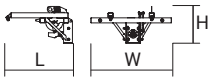
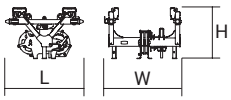
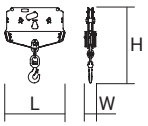
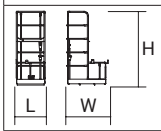
CBQ - 2,205 lb

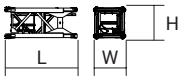
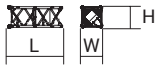
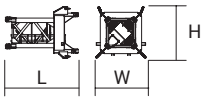
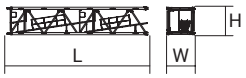
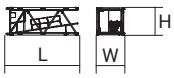
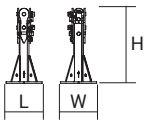
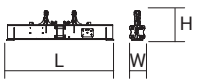
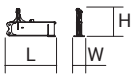


Dimensions and weight

Slewing crane part - : 180 ft - DMP - 25 LVF

x 2
x 2

Slewing crane part			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
	Counter-jib	3.9 ft 3.9 ft	39	6.1	9.2	9,590
	Cab	Ultra View	9.9	7.1	10	2,359
	Jib section	① 25 LVF 4 DVF	34.9	6.3	7.3	7,672
		②	17.2	2.6	6.5	1,279
		③ ④ ⑤ ⑥	33.4 33.3 33.2 33.1	2.6 2.6 2.6 2.6	6.5 6.2 5 4.8	2,050 1,543 1,146 661
			2.6	3.1	1.4	88
	Trolley	DMP 5.5 USt	3.5	3.4	2.3	287
	Pulley block	DMP 5.5 USt	2.7	0.5	3.2	342
	Trolley inspection platform		2.2	3.5	5.7	88

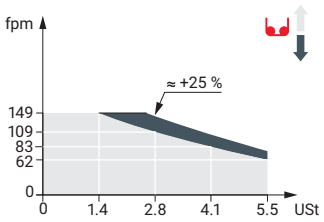
Crane tower			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
	K20/S20 Connecting mast	⍁ 3.9 ft / ⌞ 3.9 ft	9.6	4.2	4.2	2,535
	S 28ES-2 SR 26E-2 SR 28ER-2	⌞ 3.9 ft	35.3 35.3 35.3	4.2 4.2 4.2	4.2 4.2 4.2	7,604 6,735 9,050
	SR 26X-2		10.7	4.1	4.1	2,169
	KM 247E KRM 249E	⍁ 3.9 ft	33.5 33.5	4 4	4 4	7,165 9,204
	KM 247A KM 249A		17.1 17.1	4 4	4 4	3,748 4,630
	K40/L20-2 Connecting mast	⍁ 5.2 ft / ⌞ 3.9 ft	9.7	6.8	6.9	4,630
	K 447E KM 447E KRM 449E		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		11.6	5.5	5.3	2,976
	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
	Cross girder	ZC 230 ZC 240 ZC 440 ZD 440	19 19 19 22.2	2.7 2.7 2.8 2.8	5.3 4.3 4.3 4.3	5,445 5,997 5,997 6,702
	1/2 Cross girder	ZC 230 ZC 240 ZC 440 ZD 440	9.3 9.2 9.2 10.8	1.9 1.9 1.9 1.9	5.3 4.3 4.3 4.4	2,194 2,447 2,447 2,778

Mechanisms

480 V - 60 Hz							hp	kW	
	25 LVF 13 Optima	fpm	62	83	109	149	25	18	1,043 ft
		USt	5.5	4.1	2.8	1.4			
	4 DVF 3 Optima	fpm	0 → 180 (5.5 USt)		0 → 230 (1.9 USt)		5	3.7	
	RVF 152 Optima+	rpm	0 → 0.8				2 x 5.5	2 x 4	

IEC 60204-32	kVA
480 V (+6% -10%) 60 Hz	33 → 23 kVA

25 LVF 13 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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