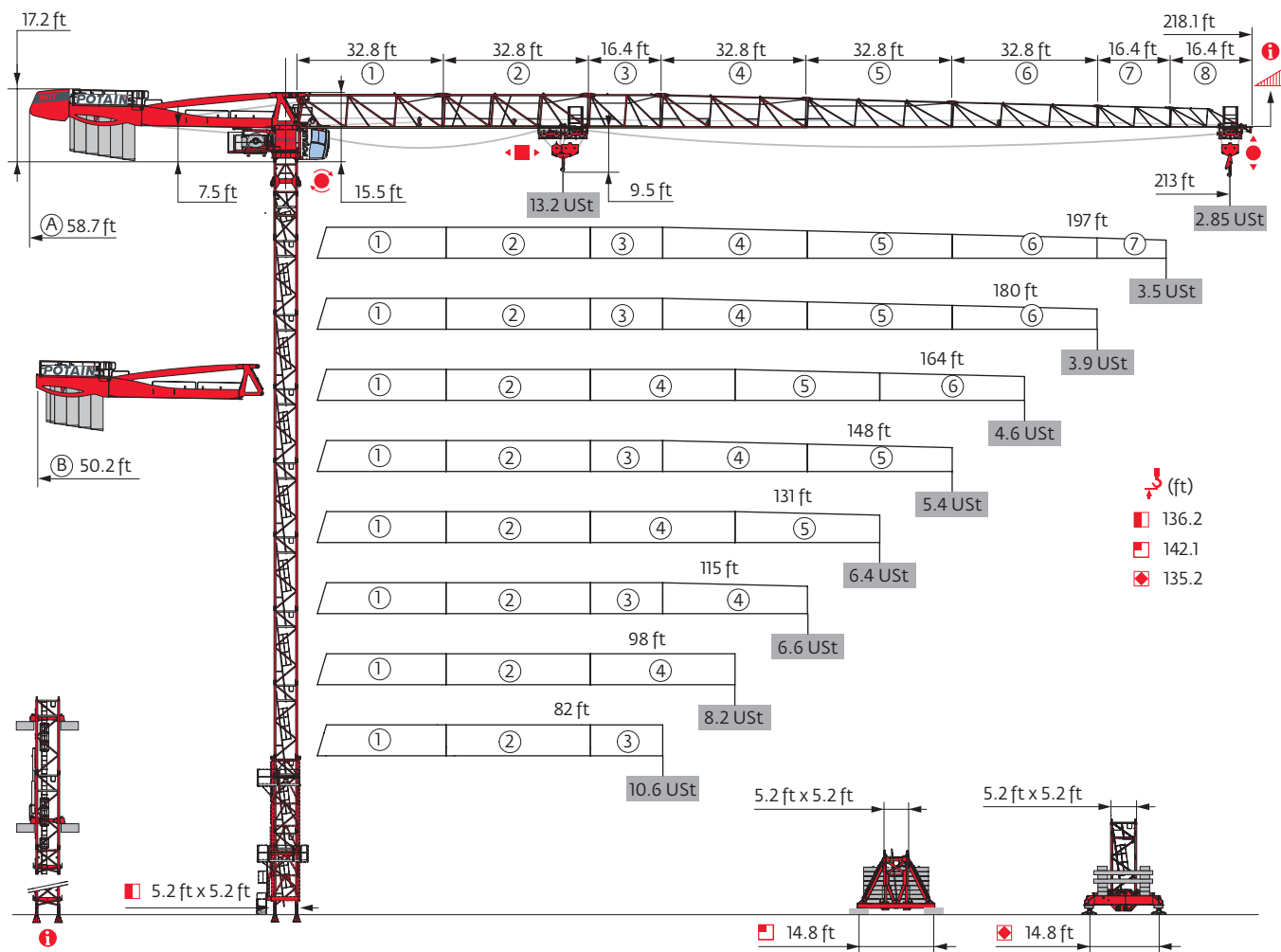


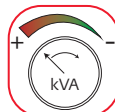
MDT 249 J12



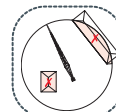
Potain Plus



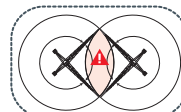
Power Control



Top Site



Top Tracing 3

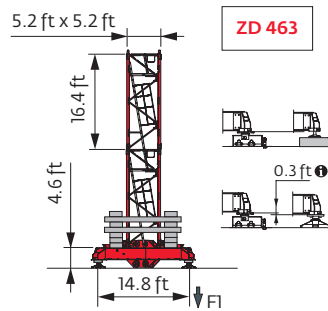
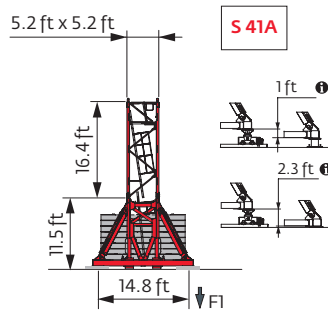
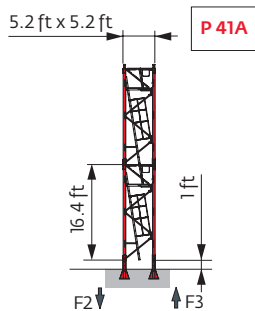


Mast - Reactions

5.2 ft City - P 41A									
Height (ft)	82	98	115	131	148	164	180	197	213
Height (ft)	136.2	136.2	130.6	130.6	136.2	136.2	125.3	125.3	125.3
Height/P ₊ (ft)	136.2	136.2	130.6	130.6	136.2	136.2	125.3	125.3	125.3
10.9 ft	2	2	0	0	2	2	1	1	1
16.4 ft	7	7	8	8	7	7	7	7	7
F2 (Ust)	● 145	144	136	138	141	139	139	139	140
	■ 107	105	98	96	115	117	103	102	110
F3 (Ust)	● 111	109	101	101	96	94	93	92	93
	■ 73	71	63	59	77	78	64	62	70

5.2 ft City - S 41A									
Height (ft)	82	98	115	131	148	164	180	197	213
Height (ft)	141.1	141.1	141.1	141.1	141.1	141.1	135.5	130.2	135.5
Height/P ₊ (ft)	141.1	141.1	141.1	141.1	141.1	141.1	135.5	130.2	135.5
10.9 ft	0	0	0	0	0	0	1	2	1
16.4 ft	8	8	8	8	8	8	7	6	7
F1 (Ust)	● 88	86	88	88	87	87	89	87	89
	■ 71	71	73	72	74	74	74	71	77

5.2 ft City - ZD 463									
Height (ft)	82	98	115	131	148	164	180	197	213
Height (ft)	134.2	134.2	134.2	134.2	134.2	134.2	128.6	123.4	128.6
Height/P ₊ (ft)	134.2	134.2	134.2	134.2	134.2	134.2	128.6	123.4	128.6
10.9 ft	0	0	0	0	0	0	1	2	1
16.4 ft	8	8	8	8	8	8	7	6	7
F1 (Ust)	● 85	83	84	84	84	83	85	83	86
	■ 67	67	68	68	68	69	69	65	72



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.

5.2 ft - P 41A

Height (ft)	82	98	115	131	148	164	180	197	213
\bar{z} (ft)	131.9	131.9	126.3	131.9	131.9	131.9	126.3	120.7	120.7
\bar{z}/P_z (ft)	131.9	131.9	126.3	131.9	131.9	131.9	126.3	120.7	120.7
	6.6 ft	1	1	1	1	1	1	1	1
	10.9 ft	1	1	2	1	1	1	2	0
	16.4 ft	7	7	6	7	7	7	6	7
F2 (Ust)	● 144	142	136	141	140	138	142	137	138
	■ 108	106	103	108	116	117	117	103	111
F3 (Ust)	● 110	108	100	104	95	93	96	91	91
	■ 74	72	67	71	78	79	77	63	71

5.2 ft - S 41A

Height (ft)	82	98	115	131	148	164	180	197	213
\bar{z} (ft)	136.8	136.8	136.8	136.8	136.8	142.1	131.2	131.2	131.2
\bar{z}/P_z (ft)	136.8	136.8	136.8	136.8	136.8	142.1	131.2	131.2	131.2
	6.6 ft	1	1	1	1	1	1	1	1
	10.9 ft	2	2	2	2	1	0	0	0
	16.4 ft	6	6	6	6	6	7	7	7
F1 (Ust)	● 90	86	88	88	88	90	88	89	89
	■ 76	73	76	75	76	81	76	76	78

5.2 ft - ZD 463

Height (ft)	82	98	115	131	148	164	180	197	213
\bar{z} (ft)	135.2	135.2	129.9	129.9	135.2	135.2	129.9	124.3	124.3
\bar{z}/P_z (ft)	135.2	135.2	129.9	129.9	135.2	135.2	129.9	124.3	124.3
	6.6 ft	1	1	1	1	1	1	1	1
	10.9 ft	1	1	2	2	1	1	2	0
	16.4 ft	7	7	6	6	7	7	6	7
F1 (Ust)	● 88	86	84	84	87	86	88	85	85
	■ 74	72	70	69	75	75	76	70	73

Anchorage



Base ballast

⚙️ (USt) / 5.2 ft City - S 41A - 🚧

RAIL (ft)	82	98	115	131	148	164	180	197	213
141.1	99.2	99.2	99.2	99.2	92.6	92.6			
135.5	99.2	92.6	92.6	92.6	86	86	92.6		92.6
130.2	92.6	92.6	92.6	86	79.4	79.4	86	92.6	86
113.8	79.4	72.8	72.8	72.8	66.1	66.1	72.8	72.8	72.8
97.4	66.1	66.1	59.5	66.1	59.5	52.9	52.9	59.5	66.1
81	66.1	59.5	52.9	59.5	52.9	52.9	46.3	52.9	66.1
64.6	66.1	59.5	52.9	59.5	52.9	52.9	46.3	52.9	59.5

⚙️ (USt) / 5.2 ft City - ZD 463 - 🚧

RAIL (ft)	82	98	115	131	148	164	180	197	213
134.2	93.7	88.2	88.2	88.2	82.7	82.7			
128.6	88.2	88.2	82.7	82.7	77.2	77.2	82.7		82.7
123.4	82.7	82.7	82.7	77.2	71.7	71.7	77.2	77.2	77.2
107	66.1	66.1	66.1	66.1	55.1	55.1	60.6	60.6	66.1
90.6	66.1	60.6	55.1	60.6	55.1	49.6	44.1	55.1	60.6
74.2	66.1	55.1	49.6	55.1	55.1	49.6	44.1	49.6	60.6
57.7	66.1	55.1	49.6	55.1	55.1	49.6	44.1	49.6	60.6

⚙️ (USt) / 5.2 ft - S 41A - 🚧

RAIL (ft)	82	98	115	131	148	164	180	197	213
142.1						99.2			
136.8	105.8	99.2	99.2	99.2	92.6	92.6			
131.2	99.2	92.6	92.6	92.6	86	86	92.6	92.6	92.6
114.8	79.4	79.4	79.4	79.4	72.8	72.8	72.8	79.4	72.8
98.4	66.1	66.1	66.1	66.1	59.5	59.5	59.5	59.5	66.1
82	66.1	59.5	52.9	59.5	52.9	52.9	46.3	59.5	66.1
65.6	66.1	59.5	52.9	52.9	52.9	52.9	46.3	52.9	66.1

⚙️ (USt) / 5.2 ft - ZD 463 - 🚧

RAIL (ft)	82	98	115	131	148	164	180	197	213
135.2	99.2	93.7			88.2	88.2			
129.9	93.7	88.2	88.2	88.2	82.7	82.7	88.2		
124.3	88.2	82.7	82.7	82.7	77.2	77.2	82.7	82.7	82.7
107.9	71.7	71.7	66.1	66.1	60.6	60.6	66.1	66.1	66.1
91.5	66.1	60.6	55.1	60.6	49.6	55.1	49.6	55.1	60.6
75.1	66.1	55.1	49.6	55.1	49.6	49.6	44.1	49.6	60.6
58.7	66.1	55.1	49.6	49.6	49.6	49.6	44.1	49.6	60.6

Load curves



⚠️ (ft)		49	56	66	72	82	89	98	105	115	121	131	138	148	154	164	171	180	187	197	203	213	ft	
⚠️	⚠️ 13.2 USt	⚠️ 6.6 USt	⚠️										⚠️											
213	10 → 53	94 - 102	13.2	12.4	10.2	9.1	7.8	7.1	6.6	6.4	5.7	5.4	4.9	4.6	4.3	4	3.7	3.6	3.3	3.2	3	2.85	2.7	USt
	10 → 54	97 - 105	13.2	12.7	10.6	9.4	8.1	7.4	6.6	6.6	6	5.6	5.1	4.9	4.5	4.3	4	3.8	3.5	3.4	3.2	3	2.85	USt P+
197	10 → 56	101 - 108	13.2	13.2	11.1	9.9	8.5	7.8	6.8	6.6	6.2	5.8	5.3	5	4.6	4.4	4.1	3.9	3.6	3.5	3.3		USt	
	10 → 58	105 - 113	13.2	13.2	11.5	10.3	8.9	8.1	7.2	6.6	6.5	6.1	5.6	5.3	4.9	4.7	4.3	4.1	3.9	3.7	3.5		USt P+	
180	10 → 56	101 - 109	13.2	13.2	11.1	9.9	8.5	7.8	6.9	6.6	6.2	5.8	5.3	5	4.6	4.4	4.1	3.9	3.6				USt	
	10 → 58	106 - 115	13.2	13.2	11.6	10.4	9	8.2	7.2	6.7	6.6	6.2	5.6	5.3	4.9	4.7	4.4	4.2	3.9				USt P+	
164	10 → 59	106 - 113	13.2	13.2	11.7	10.4	9	8.2	7.2	6.7	6.5	6.1	5.6	5.3	4.9	4.6	4.3						USt	
	10 → 61	111 - 120	13.2	13.2	12.2	11	9.5	8.7	7.7	7.1	6.6	6.5	6	5.6	5.2	5	4.6						USt P+	
148	10 → 61	109 - 118	13.2	13.2	12.1	10.8	9.3	8.5	7.5	6.9	6.6	6.4	5.8	5.5	5.1								USt	
	10 → 64	116 - 125	13.2	13.2	12.8	11.4	9.9	9.1	8	7.4	6.7	6.6	6.2	5.9	5.4								USt P+	
131	10 → 62	111 - 120	13.2	13.2	12.4	11.1	9.6	8.7	7.7	7.1	6.6	6.5	6										USt	
	10 → 65	118 - 128	13.2	13.2	13.1	11.8	10.2	9.3	8.2	7.6	6.9	6.6	6.4										USt P+	
115	10 → 60	107 - 115	13.2	13.2	11.8	10.6	9.1	8.3	7.3	6.8	6.6												USt	
	10 → 63	114 - 115	13.2	13.2	12.6	11.3	9.7	8.9	7.9	7.3	6.6												USt P+	
98	10 → 61		13.2	13.2	12.2	10.9	9.4	8.6	7.5														USt	
	10 → 64		13.2	13.2	13	11.6	10.1	9.2	8.1														USt P+	
82	10 → 63		13.2	13.2	12.6	11.3	9.7																USt	
	10 → 67		13.2	13.2	13.2	12.2	10.5																USt P+	

$\text{⚠️} = \text{⚠️} - 0.63 \text{ USt max.}$



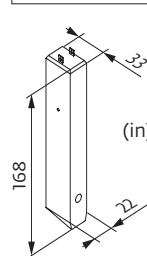
⚠️ (ft)		49	56	66	72	82	89	98	105	115	121	131	138	148	154	164	171	180	187	197	203	213	ft	
⚠️	⚠️ 13.2 USt	⚠️ 6.6 USt	⚠️										⚠️											
213	8 → 53	95 - 97	13.2	12.5	10.3	9.2	7.9	7.2	6.5	6	5.4	5	4.5	4.3	3.9	3.7	3.4	3.2	2.95	2.8	2.6	2.5	2.3	USt
	8 → 54	98 - 100	13.2	12.8	10.6	9.5	8.2	7.5	6.6	6.3	5.6	5.3	4.8	4.5	4.1	3.9	3.6	3.4	3.2	3	2.8	2.7	2.5	USt P+
197	8 → 57	102 - 104	13.2	13.2	11.1	10	8.6	7.8	6.9	6.5	5.9	5.5	5	4.7	4.3	4.1	3.7	3.5	3.3	3.1	2.9		USt	
	8 → 58	106 - 108	13.2	13.2	11.6	10.4	9	8.2	7.2	6.7	6.2	5.8	5.3	5	4.6	4.3	4	3.8	3.5	3.4	3.2		USt P+	
180	8 → 57	102 - 104	13.2	13.2	11.2	10	8.6	7.9	6.9	6.6	5.9	5.5	5	4.7	4.3	4.1	3.8	3.6	3.3				USt	
	8 → 59	107 - 109	13.2	13.2	11.7	10.5	9	8.3	7.3	6.8	6.2	5.8	5.3	5	4.6	4.4	4	3.8	3.6				USt P+	
164	8 → 59	106 - 109	13.2	13.2	11.7	10.5	9	8.3	7.3	6.7	6.2	5.8	5.3	5	4.5	4.3	4						USt	
	8 → 61	112 - 115	13.2	13.2	12.3	11	9.5	8.7	7.7	7.2	6.6	6.2	5.6	5.3	4.9	4.6	4.3						USt P+	
148	8 → 61	110 - 112	13.2	13.2	12.2	10.9	9.4	8.6	7.6	7	6.4	6	5.5	5.2	4.7								USt	
	8 → 64	117 - 119	13.2	13.2	12.8	11.5	10	9.1	8.1	7.5	6.7	6.5	5.9	5.6	5.1								USt P+	
131	8 → 62	112 - 115	13.2	13.2	12.5	11.2	9.6	8.8	7.8	7.2	6.6	6.2	5.6										USt	
	8 → 65	119 - 122	13.2	13.2	13.2	11.8	10.2	9.4	8.3	7.7	6.9	6.6	6.1										USt P+	
115	8 → 60	108 - 110	13.2	13.2	11.9	10.6	9.2	8.4	7.4	6.8	6.3												USt	
	8 → 63		13.2	13.2	12.6	11.3	9.8	9	7.9	7.4	6.6												USt P+	
98	8 → 61		13.2	13.2	12.2	11	9.4	8.6	7.6														USt	
	8 → 65		13.2	13.2	13	11.7	10.1	9.3	8.2														USt P+	
82	8 → 63		13.2	13.2	12.7	11.4	9.8																USt	
	8 → 67		13.2	13.2	13.2	12.2	10.6																USt P+	

$\text{⚠️} = \text{⚠️} - 0.18 \text{ USt max.}$

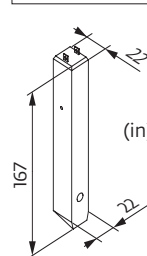
Jib weight & counter-jib ballast

⚠️	⚠️ (lb) (+/- 5%)			⚠️			⚠️		
	⚠️	⚠️	⚠️	10,141 lb	3,373 lb	⚠️ (lb)	6,768 lb	3,373 lb	⚠️ (lb)
213 ft	27,448	26,764	27,613	5	1	54,079	7	2	54,123
197 ft	26,830	26,169	26,963	5	1	54,079	7	2	54,123
180 ft	26,147	25,485	26,279	5	0	50,706	7	1	50,750
164 ft	24,052	23,391	24,185	4	2	47,311	6	2	47,355
148 ft	24,339	23,678	24,471	4	2	47,311	6	2	47,355
131 ft	22,245	21,583	22,377	4	1	43,938	6	1	43,982
115 ft	21,914	21,253	22,046	4	0	40,565	5	2	40,587
98 ft	20,084	19,423	20,216	3	2	37,170	5	1	37,214
82 ft	19,004	18,342	19,136	3	1	33,797	4	2	33,819

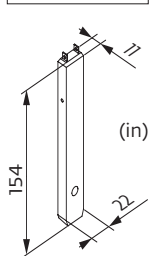
CBS - 10,141 lb



CBU - 6,768 lb



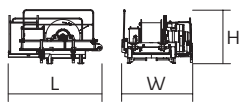
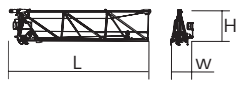

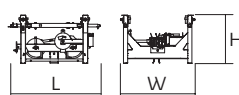
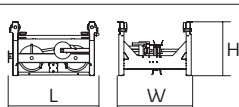


CBY - 3,373 lb

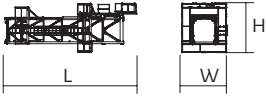
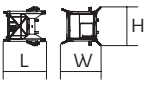
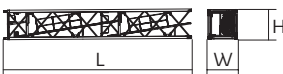
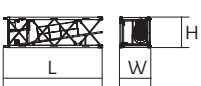
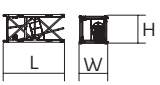
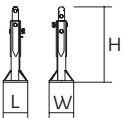
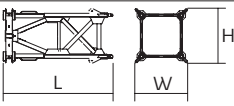
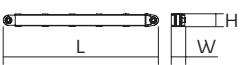
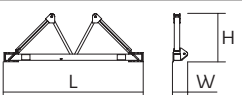
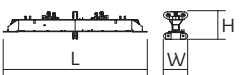
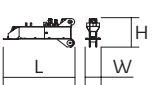


Dimensions and weight

Slewing crane part :  213 ft -  -  50 LVF



Slewing crane part		L (ft)	W (ft)	H (ft)	lb (+/- 5%)	
Counter-jib		Ⓐ Ⓑ	36.1	3.8	8.1	19,213
			36.1	3.8	8.1	18,629
Towerhead + cab		15.6	7.5	8.4	17,372	
Hoisting winch (+ rope)		50 LVF 90 HPL™	10.6	8.1	6.2	6,945
			10.6	10.8	5.8	9,235
Jib section		35.5	5.6	8.9	7,760	
Jib section		② ④ ⑤ ⑥	33.8	3.9	7.9	5,335
			33.5	3.9	7.8	3,439
			33.6	3.9	6.9	2,723
			33.4	3.9	6	1,753
Jib section		③ ⑦	17.3	3.9	7.8	2,116
			16.7	3.9	5	683
Jib section		16.7	3.9	4.6	485	
Trolley		6.1	5	3.4	882	
Pulley block		3.9	1.4	7.6	1,003	
Trolley		5.2	5	3.2	463	
Trolley		 13.2 USt	5.6	5	3	540
			6.1	5	3.2	520
Pulley block		 13.2 USt	5.4	0.7	5.8	992
			 6.6 USt	3.6	0.9	5.3

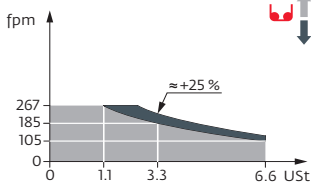
Crane tower		L (ft)	W (ft)	H (ft)	lb (+/- 5%)	
Telescopic cage T 41		5.2 ft	35.6	12.3	13.5	15,653
K40/K40-2		5.2 ft	7.3	6.9	6.8	2,932
K 447E KM 447E KM 449E		5.2 ft	33.5 33.5 33.5	5.3 5.3 5.3	5.3 5.3 5.3	7,474 7,088 8,444
K 447A KMT 447A K 449A KMT 449A		5.2 ft	17.1 17.1 17.1 17.1	5.5 5.5 5.5 5.5	5.3 5.3 5.3 5.3	4,079 3,847 4,916 4,696
K 447C		5.2 ft	11.3	5.5	5.3	2,998
Fixing angles		P 41A	1.2	1.2	3.7	293
Basic mast unit		S 41A	11.9	6.4	6.8	6,537
Struts		S 41A	10.4	0.9	0.8	489
Half-bearer		S 41A	16.7	2	5.8	2,524
Cross girder		ZD 463	25.1	3.8	4.5	7,904
1/2 Cross girder		ZD 463	11.2	2.3	4.4	3,649

Mechanisms

480 V - 60 Hz											hp	kW			
	50 LVF 30 Optima	fpm	105	135	185	267	54	71	97	135	50	37	1,106 ft		
		USt	6.6	5	3.3	1.1	13.2	9.9	6.6	2.5					
	90 HPL™ 30	fpm	176	228	326	469	723	90	120	172	244	361	90	66	2,434 ft
		USt	6.6	5	3.3	1.7	0.2	13.2	9.9	6.6	3.3	0.9			
	6 DVF 4 Optima	fpm	0 → 164 (13.2 USt) 0 → 328 (6.6 USt) 0 → 394 (3.3 USt)				5.5	4							
	RVF 162 Optima+	rpm	0 → 0.9									2 x 7.5	2 x 5.5		

480 V (+6% -10%) 60 Hz	50 LVF: 58 → 38 kVA	
	90 HPL™: 90 → 54 kVA	

50 LVF 30 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: wind 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.

