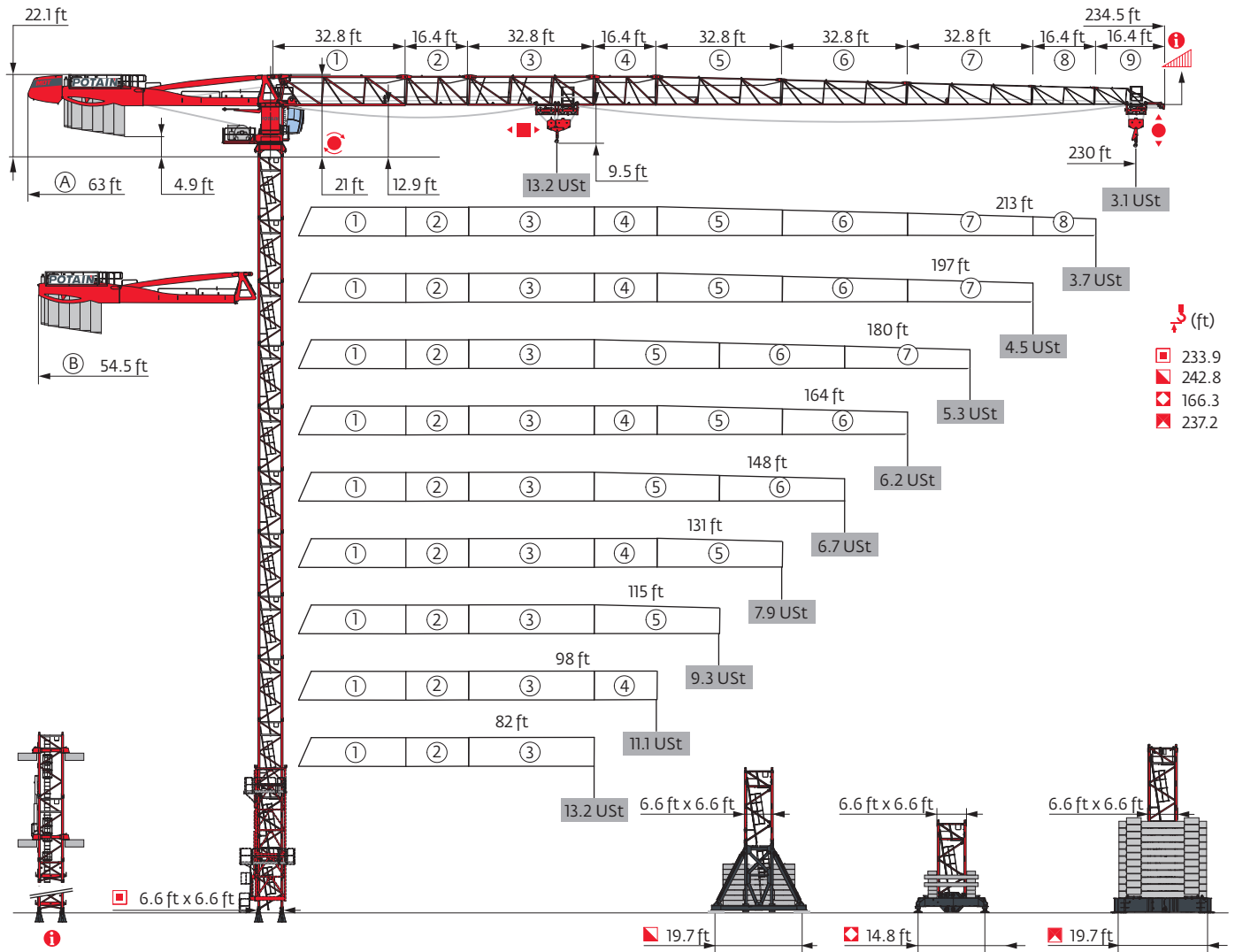


## MDT 289



Potain Plus Power Control Top Site Top Tracing 3

The icons represent the following features:

- Potain Plus:** P+
- Power Control:** kVA
- Potain Connect:** POTAIN CONNECT
- Top Site:** Top Site
- Top Tracing 3:** Top Tracing 3

Mast - Reactions

**6.6 ft - P 63A**

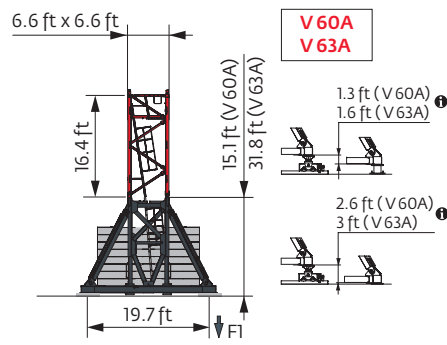
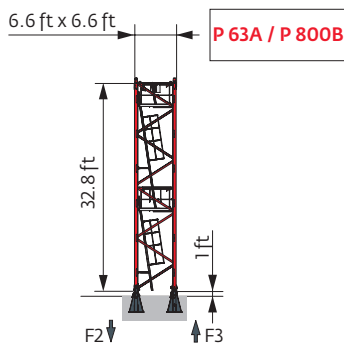
Height (ft)	82	98	115	131	148	164	180	197	213	230
Height (ft)	233.9	233.9	233.9	233.9	228.7	228.7	228.7	223.1	217.5	217.5
Height/P+ (ft)	233.9	233.9	233.9	233.9	228.7	228.7	228.7	223.1	217.5	217.5
10.9 ft	0	0	0	0	1	1	1	2	0	0
16.4 ft	12	12	12	12	11	11	11	10	11	11
32.8 ft	1	1	1	1	1	1	1	1	1	1
F2 (Ust)	● 210 ■ 323	218 330	217 329	222 336	216 319	217 327	215 326	209 309	212 299	214 306
F3 (Ust)	● 154 ■ 273	159 278	157 276	161 281	154 264	155 271	153 271	146 253	149 243	151 250


**6.6 ft - V 60A -**

Height (ft)	82	98	115	131	148	164	180	197	213	230
Height (ft)	226.1	226.1	226.1	226.1	220.8	220.8	220.8	209.7	209.7	209.7
Height/P+ (ft)	226.1	226.1	226.1	226.1	220.8	220.8	220.8	209.7	209.7	209.7
10.9 ft	1	1	1	1	2	2	2	1	1	1
16.4 ft	12	12	12	12	11	11	11	11	11	11
F1 (Ust)	● 122 ■ 156	124 157	123 156	125 159	119 150	120 154	119 154	118 136	119 141	120 146


**6.6 ft - V 63A -**

Height (ft)	82	98	115	131	148	164	180	197	213	230
Height (ft)	237.2	237.2	237.2	242.8	237.2	237.2	237.2	220.8	220.8	220.8
Height/P+ (ft)	237.2	237.2	237.2	242.8	237.2	237.2	237.2	220.8	220.8	220.8
10.9 ft	2	2	2	1	2	2	2	2	2	2
16.4 ft	11	11	11	12	11	11	11	10	10	10
F1 (Ust)	● 136 ■ 176	135 178	134 177	141 188	135 178	136 182	135 183	126 155	127 161	128 165

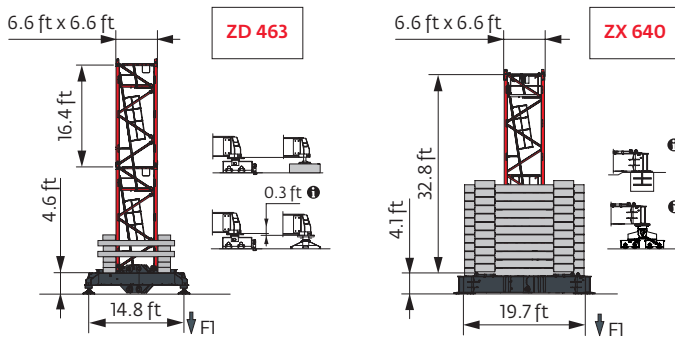


**6.6 ft - ZD 463 - **

Height (ft)	82	98	115	131	148	164	180	197	213	230
Height (ft)	161.1	161.1	161.1	161.1	161.1	161.1	166.3	155.5	155.5	149.9
Height/P+ (ft)	161.1	155.5	161.1	155.5	161.1	161.1	161.1	155.5	149.9	149.9
Windward Exposure	10.9 ft	2	2	2	2	2	1	0	0	1
	16.4 ft	8	8	8	8	8	9	9	9	8
FI (USt)	● 114	115	114	113	115	114	116	116	116	113
	■ 106	107	105	106	107	109	115	106	110	106

**6.6 ft - ZX 640 - **

Height (ft)	82	98	115	131	148	164	180	197	213	230
Height (ft)	237.2	237.2	237.2	231.6	231.6	231.6	231.6	226.1	220.8	220.8
Height/P+ (ft)	237.2	237.2	237.2	231.6	231.6	231.6	231.6	226.1	220.8	220.8
Windward Exposure	10.9 ft	0	0	1	1	1	1	2	0	0
	16.4 ft	12	12	12	11	11	11	10	11	11
	32.8 ft	1	1	1	1	1	1	1	1	1
FI (USt)	● 130	134	134	131	134	132	131	130	130	131
	■ 170	173	173	168	166	170	170	160	155	159



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 / 6.6 ft - V 60A -**

(ft)	82	98	115	131	148	164	180	197	213	230
226.1	145.5	145.5	145.5	145.5						
220.8	145.5	145.5	132.3	132.3	132.3	132.3	132.3			
209.7	132.3	119.1	119.1	119.1	119.1	119.1	119.1	132.3	132.3	132.3
193.2	105.8	105.8	105.8	105.8	105.8	92.6	92.6	105.8	105.8	105.8
176.8	92.6	92.6	92.6	79.4	92.6	79.4	79.4	92.6	92.6	92.6
160.4	79.4	79.4	79.4	66.1	66.1	66.1	66.1	79.4	79.4	79.4
144	66.1	66.1	66.1	52.9	52.9	52.9	52.9	66.1	66.1	52.9
127.6	52.9	52.9	52.9	52.9	52.9	39.7	39.7	52.9	39.7	52.9
111.2	52.9	52.9	52.9	52.9	52.9	39.7	39.7	39.7	39.7	52.9
94.8	52.9	52.9	52.9	52.9	52.9	39.7	39.7	26.5	39.7	39.7
78.4	52.9	52.9	52.9	52.9	52.9	39.7	39.7	26.5	39.7	39.7
62	52.9	52.9	52.9	52.9	52.9	39.7	39.7	26.5	39.7	39.7

**Ust / 6.6 ft - V 63A -**

(ft)	82	98	115	131	148	164	180	197	213	230
242.8										
237.2	185.2	172	172	172	172	172	172			
220.8	145.5	145.5	145.5	145.5	132.3	145.5	145.5	145.5	145.5	145.5
204.4	119.1	119.1	119.1	119.1	119.1	105.8	105.8	119.1	119.1	132.3
188	105.8	105.8	105.8	92.6	92.6	92.6	92.6	105.8	105.8	105.8
171.6	92.6	92.6	92.6	79.4	79.4	79.4	79.4	92.6	92.6	92.6
155.2	79.4	79.4	66.1	66.1	66.1	66.1	66.1	79.4	66.1	66.1
138.8	66.1	66.1	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
122.4	52.9	52.9	52.9	52.9	39.7	39.7	39.7	39.7	39.7	52.9
106	52.9	52.9	52.9	52.9	39.7	39.7	39.7	26.5	39.7	39.7
89.6	52.9	52.9	52.9	52.9	39.7	39.7	39.7	26.5	39.7	39.7
73.2	52.9	52.9	52.9	52.9	39.7	39.7	39.7	26.5	39.7	39.7

**Ust / 6.6 ft - ZD 463 -**

(ft)	82	98	115	131	148	164	180	197	213	230
166.3							126.8			
161.1	132.3	132.3	126.8	121.3	126.8	121.3	121.3			
155.5	126.8	121.3	121.3	121.3	121.3	110.2	110.2	126.8	126.8	
149.9	121.3	115.7	115.7	115.7	110.2	104.7	104.7	121.3	115.7	115.7
133.5	99.2	104.7	99.2	104.7	93.7	93.7	82.7	99.2	93.7	93.7
117.1	88.2	93.7	88.2	93.7	82.7	82.7	71.7	77.2	77.2	82.7
100.7	88.2	93.7	88.2	93.7	82.7	77.2	66.1	60.6	71.7	82.7
84.3	88.2	93.7	88.2	93.7	82.7	77.2	66.1	60.6	71.7	77.2

**Ust / 6.6 ft - ZX 640 -**

(ft)	82	98	115	131	148	164	180	197	213	230
237.2	165.4	165.4	165.4							
231.6	154.3	154.3	154.3	154.3	165.4	154.3	154.3			
226.1	154.3	154.3	154.3	154.3	154.3	154.3	154.3	154.3		
220.8	143.3	143.3	143.3	143.3	143.3	143.3	143.3	143.3	154.3	154.3
204.4	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	132.3	132.3
188	110.2	110.2	110.2	110.2	110.2	99.2	99.2	99.2	110.2	110.2
171.6	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
155.2	77.2	77.2	77.2	66.1	77.2	66.1	66.1	66.1	77.2	77.2
138.8	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
122.4	44.1	55.1	55.1	55.1	44.1	44.1	33.1	33.1	44.1	44.1
106	44.1	55.1	55.1	55.1	44.1	44.1	33.1	33.1	33.1	44.1
89.6	44.1	55.1	55.1	55.1	44.1	44.1	33.1	33.1	33.1	44.1
73.2	44.1	55.1	55.1	55.1	44.1	44.1	33.1	33.1	33.1	44.1

Load curves



ft		66	72	82	89	98	105	115	121	131	138	148	154	164	171	180	187	197	203	213	220	230	ft	
<b>230</b>	10 → 67	125 - 135	13.2	12.2	10.6	9.8	8.7	8.1	7.3	6.8	6.6	6.5	6	5.7	5.2	4.9	4.5	4.2	3.9	3.7	3.4	3.2	3	USt
	10 → 69	128 - 138	13.2	12.5	11	10.1	9	8.3	7.5	7	6.6	6.6	6.2	5.9	5.4	5	4.6	4.3	4	3.8	3.5	3.3	3.1	USt P+
<b>213</b>	10 → 70	129 - 138	13.2	12.8	11.1	10.2	9.1	8.4	7.6	7.1	6.6	6.6	6.1	5.8	5.3	5	4.6	4.4	4	3.8	3.6			USt
	10 → 72	132 - 141	13.2	13.2	11.5	10.5	9.3	8.7	7.8	7.3	6.7	6.6	6.3	6	5.5	5.2	4.7	4.5	4.2	3.9	3.7			USt P+
<b>197</b>	10 → 74	137 - 146	13.2	13.2	11.9	10.9	9.7	9	8.1	7.6	7	6.6	6.5	6.2	5.7	5.4	5	4.7	4.4					USt
	10 → 77	140 - 149	13.2	13.2	12.1	11.2	10	9.3	8.4	7.9	7.2	6.8	6.6	6.4	5.9	5.5	5.1	4.8	4.5					USt P+
<b>180</b>	10 → 75	136 - 146	13.2	13.2	12	11	9.7	9	8.1	7.6	6.9	6.6	6.5	6.2	5.8	5.5	5.2							USt
	10 → 77	139 - 149	13.2	13.2	12.3	11.3	10	9.2	8.3	7.8	7.1	6.7	6.6	6.4	5.9	5.7	5.3							USt P+
<b>164</b>	10 → 77	138 - 149	13.2	13.2	12.3	11.2	9.9	9.2	8.3	7.8	7.1	6.6	6.6	6.3	5.9									USt
	10 → 80	144 - 155	13.2	13.2	12.8	11.7	10.4	9.6	8.7	8.1	7.4	7	6.6	6.6	6.2									USt P+
<b>148</b>	10 → 79	143 - 148	13.2	13.2	12.7	11.6	10.3	9.6	8.6	8.1	7.3	6.9	6.6											USt
	10 → 82		13.2	13.2	13.2	12.2	10.8	10	9	8.4	7.7	7.3	6.7											USt P+
<b>131</b>	10 → 81		13.2	13.2	13.1	12	10.6	9.9	8.9	8.3	7.6													USt
	10 → 84		13.2	13.2	13.2	12.4	11	10.2	9.2	8.6	7.9													USt P+
<b>115</b>	10 → 81		13.2	13.2	13	11.9	10.5	9.8	8.8															USt
	10 → 84		13.2	13.2	13.2	12.4	11	10.2	9.2															USt P+
<b>98</b>	10 → 81		13.2	13.2	13.1	12	10.6																	USt
	10 → 84		13.2	13.2	13.2	12.5	11.1																	USt P+
<b>82</b>	10 → 80		13.2	13.2	12.7																			USt
	10 → 82		13.2	13.2	13.2																			USt P+

$U_{L1} = U_{L2} - 0.66 \text{ USt max.}$

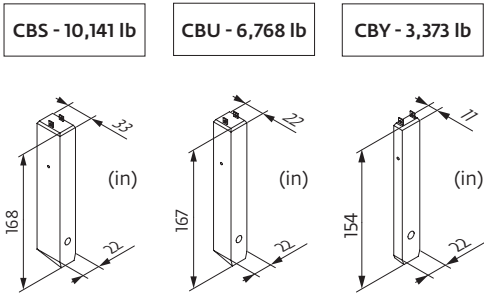


ft		66	72	82	89	98	105	115	121	131	138	148	154	164	171	180	187	197	203	213	220	230	ft	
<b>230</b>	8 → 67	126 - 128	13.2	12.2	10.7	9.9	8.8	8.2	7.4	6.9	6.4	6.1	5.6	5.3	4.8	4.5	4.1	3.8	3.5	3.3	3	2.8	2.6	USt
	8 → 69	129 - 131	13.2	12.6	11	10.2	9	8.4	7.6	7.1	6.6	6.2	5.8	5.5	5	4.6	4.2	3.9	3.6	3.4	3.1	2.9	2.65	USt P+
<b>213</b>	8 → 70	130 - 132	13.2	12.9	11.2	10.3	9.1	8.5	7.6	7.2	6.6	6.3	5.7	5.4	5	4.7	4.3	4	3.7	3.5	3.2			USt
	8 → 73	133 - 135	13.2	13.2	11.5	10.6	9.4	8.7	7.9	7.4	6.7	6.4	5.9	5.6	5.1	4.8	4.4	4.1	3.8	3.6	3.3			USt P+
<b>197</b>	8 → 75	138 - 140	13.2	13.2	12	11	9.8	9.1	8.2	7.7	7	6.6	6.2	5.9	5.4	5	4.6	4.4	4					USt
	8 → 77	141 - 143	13.2	13.2	12.2	11.3	10.1	9.4	8.5	7.9	7.2	6.8	6.4	6	5.5	5.2	4.8	4.5	4.2					USt P+
<b>180</b>	8 → 76	137 - 140	13.2	13.2	12	11	9.8	9.1	8.1	7.6	6.9	6.6	6.2	5.9	5.4	5.2	4.8							USt
	8 → 77	140 - 143	13.2	13.2	12.4	11.3	10	9.3	8.4	7.8	7.1	6.7	6.4	6	5.6	5.3	5							USt P+
<b>164</b>	8 → 77	140 - 143	13.2	13.2	12.3	11.3	10	9.3	8.4	7.8	7.1	6.7	6.3	6	5.6									USt
	8 → 80	145 - 148	13.2	13.2	12.9	11.8	10.5	9.7	8.8	8.2	7.5	7	6.6	6.3	5.9									USt P+
<b>148</b>	8 → 80	144 - 148	13.2	13.2	12.8	11.7	10.4	9.6	8.7	8.1	7.4	7	6.6											USt
	8 → 83		13.2	13.2	13.2	12.2	10.9	10.1	9.1	8.5	7.8	7.3	6.7											USt P+
<b>131</b>	8 → 82		13.2	13.2	13.2	12.1	10.7	9.9	8.9	8.4	7.6													USt
	8 → 84		13.2	13.2	13.2	12.5	11.1	10.3	9.3	8.7	7.9													USt P+
<b>115</b>	8 → 81		13.2	13.2	13	11.9	10.6	9.8	8.8															USt
	8 → 84		13.2	13.2	13.2	12.5	11.1	10.3	9.3															USt P+
<b>98</b>	8 → 82		13.2	13.2	13.2	12.1	10.7																	USt
	8 → 85		13.2	13.2	13.2	12.6	11.1																	USt P+
<b>82</b>	8 → 80		13.2	13.2	12.8																			USt
	8 → 82		13.2	13.2	13.2																			USt P+

$U_{L1} = U_{L2} - 0.2 \text{ USt max.}$

Jib weight & counter-jib ballast

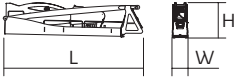

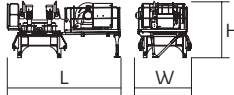
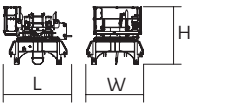
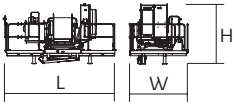
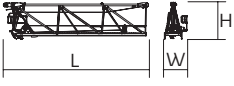
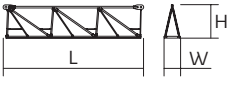
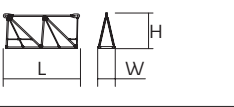
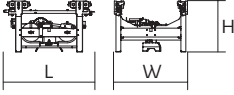
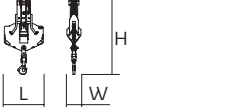
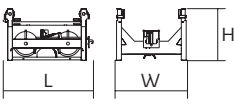
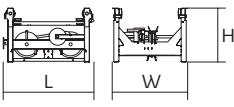
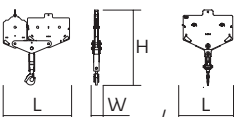
ft	CBS (lb) (+/- 5%)			CBS (lb)			CBS (lb)		
	USt	USt	USt	10,141 lb	3,373 lb	USt (lb)	6,768 lb	3,373 lb	USt (lb)
<b>230 ft</b>	32,587	31,744	32,721	5	2	57,452	8	1	57,519
<b>213 ft</b>	31,916	31,140	32,117	5	2	57,452	8	1	57,519
<b>197 ft</b>	31,070	30,360	31,226	5	2	57,452	8	1	57,519
<b>180 ft</b>	29,211	28,501	29,368	5	0	50,706	7	1	50,750
<b>164 ft</b>	29,527	28,817	29,683	5	0	50,706	7	1	50,750
<b>148 ft</b>	27,902	27,192	28,058	4	2	47,311	7	0	47,377
<b>131 ft</b>	27,324	26,614	27,481	4	1	43,938	6	1	43,982
<b>115 ft</b>	25,536	24,826	25,693	4	0	40,565	6	0	40,609
<b>98 ft</b>	24,209	23,499	24,365	3	2	37,170	5	1	37,214
<b>82 ft</b>	22,192	21,482	22,348	3	1	33,797	5	0	33,841

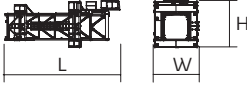

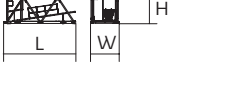

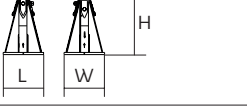
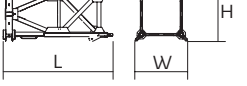
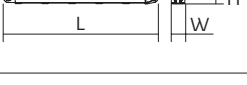
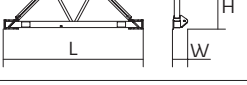
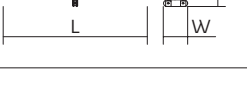
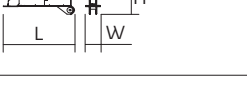
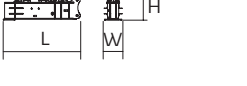
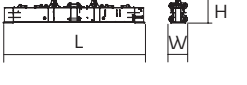


Dimensions and weight

Slewing crane part:  230 ft -  -  50 LVF



Slewing crane part		L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Counter-jib		36.1 36.1	3.7 3.7	8.1 8.1	21,826 20,503
Cab mast + cab		16.1	7.3	8.2	13,228
Towerhead + Hoisting winch (+ rope)		17.3	8.3	9.2	21,054
Towerhead		9.7	8.1	8.2	13,228
Hoisting winch (+ rope)		14	7.5	7.6	9,921
Jib section		35.8	5.6	9	9,348
Jib section		33.8 33.5 33.6 33.4	3.9 3.9 3.9 3.9	7.9 7.8 6.9 6	5,335 3,439 2,723 1,753
Jib section		17.6 17.3 16.7 16.7	3.9 3.9 3.9 3.9	8 7.8 5 4.6	3,164 2,116 683 485
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		5.6 6.1	5 5	3.4 3.2	540 520
Pulley block		5.4 3.6	0.7 0.9	5.8 5.3	992 584

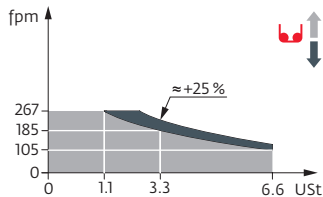
Crane tower		L (ft)	W (ft)	H (ft)	lb (+/- 5%)	
Telescopic cage T 61		6.6 ft	35.5	13.6	14.7	21,385
K 649B KM 649E KRM 6410B		6.6 ft	33.6 33.8 33.6	6.8 6.7 6.9	6.7 6.7 6.8	11,663 10,692 15,653
KR 649A KRMT 649A K 649A KMT 649A		6.6 ft	17.2 17.2 17.2 17.2	6.9 6.9 6.8 6.8	6.8 6.8 6.7 6.7	7,165 6,724 6,184 5,666
K 649C KMT 649C KRMT 649C		6.6 ft	11.7 11.7 11.7	6.8 6.8 6.9	6.7 6.7 6.8	4,376 4,542 5,401
Fixing angles		P 63A / P 800B	2.5	2.5	4.2	1,025
Basic mast unit		V 60A V 63A	16.4 32.9	7.9 7.9	7.9 7.9	10,494 16,887
Struts		V 60A V 63A	14.8 14.8	1 1.1	1 1.1	1,036 1,235
Half-bearer		V 60A V 63A	22 22	2.3 2.3	7.6 7.6	4,057 4,101
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
1/2 Cross girder		ZX 640	14.3	3.3	5.1	7,319
Cross girder		ZX 640	30	3.9	5.1	15,168

Mechanisms

480 V - 60 Hz											hp	kW			
	<b>50 LVF 30 Optima</b>	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					
	<b>90 HPL™ 30</b>	fpm	176	228	326	469	723	90	120	172	244	361	90	66	2,772 ft
		USt	6.6	5	3.3	1.7	0.2	13.2	9.9	6.6	3.3	0.9			
	<b>6 DVF 4 Optima</b>	fpm	0 → 164 (13.2 USt) 0 → 328 (6.6 USt) 0 → 394 (3.3 USt)								5.5	4			
	<b>RVF 162 Optima+</b>	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 most 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: wind 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.

