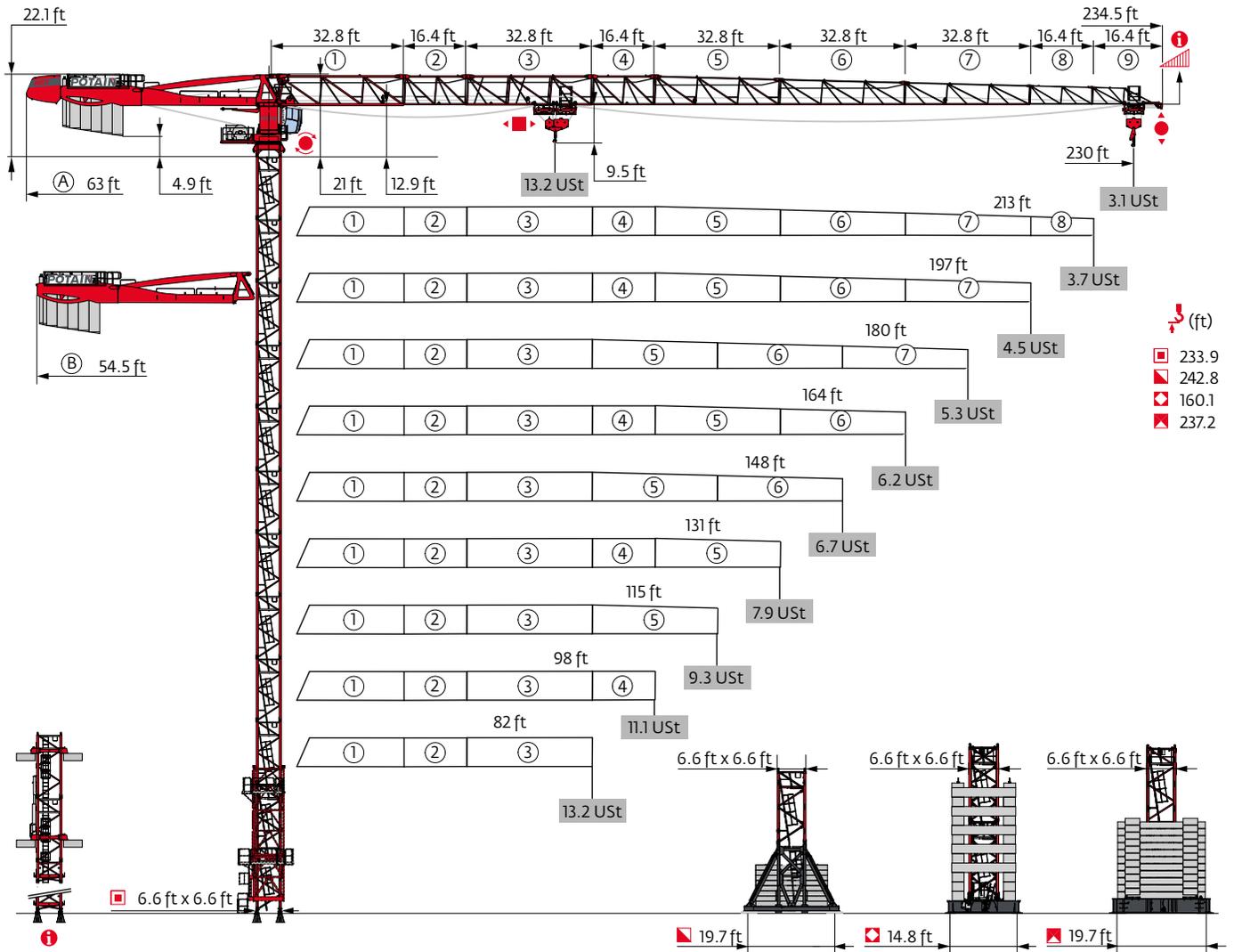
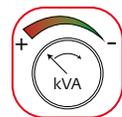


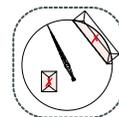
## MDT 289



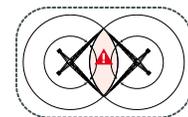
Potain Plus Power Control



Top Site



Anti-collision systems



Automatic Rotation Control

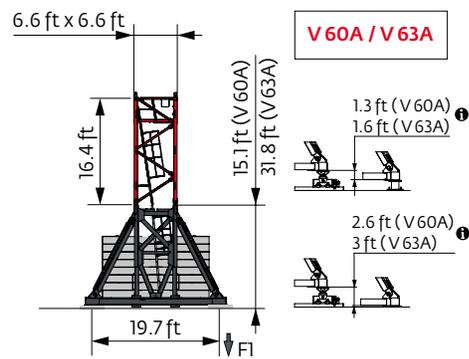
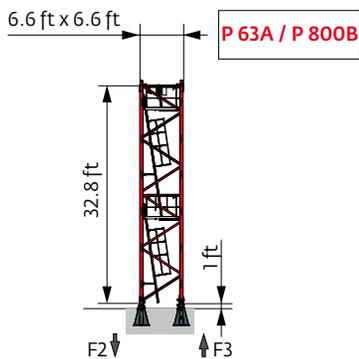


Mast - Reactions

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	218	217	222	216	217	215	209	212	214
	323	330	329	336	319	327	326	309	299	306
F3 (Ust)	154	159	157	161	154	155	153	146	149	151
	273	278	276	281	264	271	271	253	243	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	124	123	125	119	120	119	118	119	120
	156	157	156	159	150	154	154	136	141	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	135	134	141	135	136	135	126	127	128
	176	178	177	188	178	182	183	155	161	165

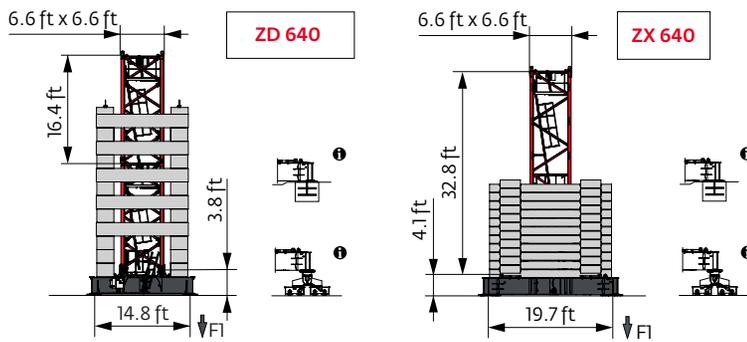


**6.6 ft - ZD 640 - **

▲▼▲ (ft)	82	98	115	131	148	164	180	197	213	230
↑ (ft)	154.5	154.5	154.5	154.5	154.5	160.1	154.5	154.5	149.3	149.3
↑/P+ (ft)	154.5	154.5	154.5	154.5	154.5	160.1	154.5	154.5	149.3	149.3
	10.9 ft	0	0	0	0	2	0	0	1	1
	16.4 ft	9	9	9	9	8	9	9	8	8
FI (USt)	● 111	114	114	116	115	119	114	114	116	115
	■ 99	101	101	104	103	112	105	105	105	107

**6.6 ft - ZX 640 - **

▲▼▲ (ft)	82	98	115	131	148	164	180	197	213	230
↑ (ft)	237.2	237.2	237.2	231.6	231.6	231.6	231.6	226.1	220.8	220.8
↑/P+ (ft)	237.2	237.2	237.2	231.6	231.6	231.6	231.6	226.1	220.8	220.8
	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.

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

Other mast compositions - Please consult us

Anchorage



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										185.2
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 640 - 										
(ft)	82	98	115	131	148	164	180	197	213	230
160.1							137.8			
154.5	137.8	137.8	137.8	137.8	137.8	132.3	132.3	132.3		
149.3	132.3	132.3	132.3	132.3	132.3	132.3	132.3	132.3	137.8	132.3
132.9	110.2	121.3	110.2	121.3	110.2	110.2	110.2	110.2	110.2	110.2
116.5	99.2	110.2	110.2	110.2	99.2	99.2	88.2	88.2	88.2	99.2
100.1	99.2	110.2	99.2	110.2	99.2	88.2	88.2	77.2	88.2	88.2
83.7	99.2	110.2	99.2	110.2	99.2	88.2	88.2	77.2	77.2	88.2
67.3	99.2	110.2	99.2	110.2	99.2	88.2	88.2	77.2	77.2	88.2

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>USt</b>	13.2 USt	6.6 USt																							
<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 <b>P+</b>	
<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 <b>P+</b>	
<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 <b>P+</b>	
<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 <b>P+</b>	
<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 <b>P+</b>
<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 <b>P+</b>
<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 <b>P+</b>
<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 <b>P+</b>
<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 <b>P+</b>
<b>82</b>	10 → 80		13.2	13.2	12.7																				USt
	10 → 82		13.2	13.2	13.2																				USt <b>P+</b>

$U_{St} = U_{St} - 0.66 U_{St} \text{ max.}$

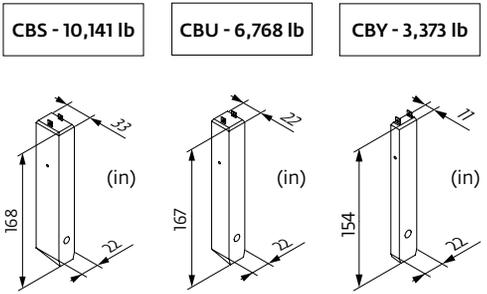


(ft)			66	72	82	89	98	105	115	121	131	138	148	154	164	171	180	187	197	203	213	220	230	ft	
<b>USt</b>	13.2 USt	6.6 USt																							
<b>230</b>	8 → 67	126 - 128	13.2	12.2	10.7	9.9	8.8	8.2	7.4	6.9	6.4	6.1	5.6	5.3	4.8	4.5	4.1	3.8	3.5	3.3	3	2.8	2.6		USt
	8 → 69	129 - 131	13.2	12.6	11	10.2	9	8.4	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 <b>P+</b>
<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 <b>P+</b>
<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 <b>P+</b>
<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 <b>P+</b>
<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 <b>P+</b>
<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 <b>P+</b>
<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 <b>P+</b>
<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 <b>P+</b>
<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 <b>P+</b>
<b>82</b>	8 → 80		13.2	13.2	12.8																				USt
	8 → 82		13.2	13.2	13.2																				USt <b>P+</b>

$U_{St} = U_{St} - 0.2 U_{St} \text{ max.}$

Jib weight & counter-jib ballast

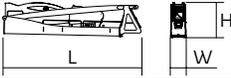
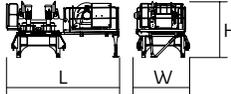
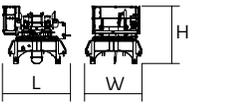
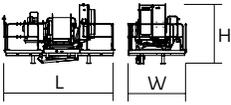
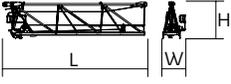
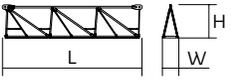
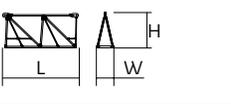
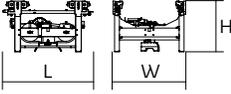
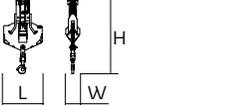
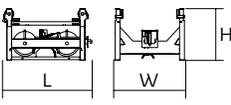
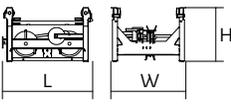
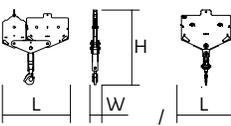
TAVAN	(lb) (+/- 5%)								
				10,141 lb	3,373 lb		6,768 lb	3,373 lb	
<b>230 ft</b>	32,587	31,744	32,721	5	2	57,452	8	1	57,519
<b>213 ft</b>	31,916	31,140	32,117	5	2	57,452	8	1	57,519
<b>197 ft</b>	31,070	30,360	31,226	5	2	57,452	8	1	57,519
<b>180 ft</b>	29,211	28,501	29,368	5	0	50,706	7	1	50,750
<b>164 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

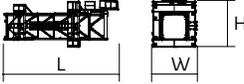
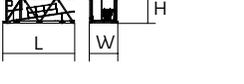
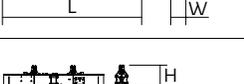
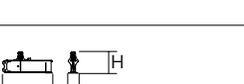
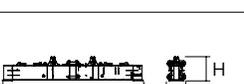
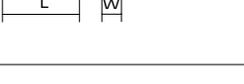


Dimensions and weight

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

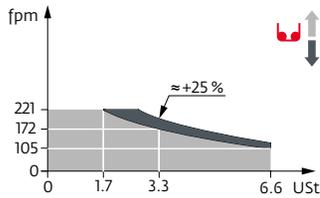
Crane tower		L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Telescopic cage T 61		35.5	13.6	14.7	21,385
K 649B KM 649E KRM 6410B		33.6 33.8 33.6	6.8 6.7 6.9	6.7 6.7 6.8	11,663 10,692 15,653
KR 649A KRMT 649A K 649A KMT 649A		17.2 17.2 17.2 17.2	6.9 6.9 6.8 6.8	6.8 6.8 6.7 6.7	7,165 6,724 6,184 5,666
KRMT 649C		11.7	6.9	6.8	5,401
Fixing angles		2.5	2.5	4.2	1,025
Basic mast unit		16.4 32.9	7.9 7.9	7.9 7.9	10,494 16,887
Struts		14.8 14.8	1 1.1	1 1.1	1,036 1,235
Half-bearer		22 22	2.3 2.3	7.6 7.6	4,057 4,101
Cross girder		22.2	1	4.7	7,055
1/2 Cross girder		10.8	1.9	4.7	2,976
Cross girder		30	3.9	5.1	15,168
1/2 Cross girder		14.3	3.3	5.1	7,319

Mechanisms

480 V - 60 Hz											hp	kW			
	<b>50 LVF 30 Optima</b>	fpm	105	131	172	221	54	69	90	110	50	37	1,106 ft		
		USt	6.6	5	3.3	1.7	13.2	9.9	6.6	3.5					
	<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.

