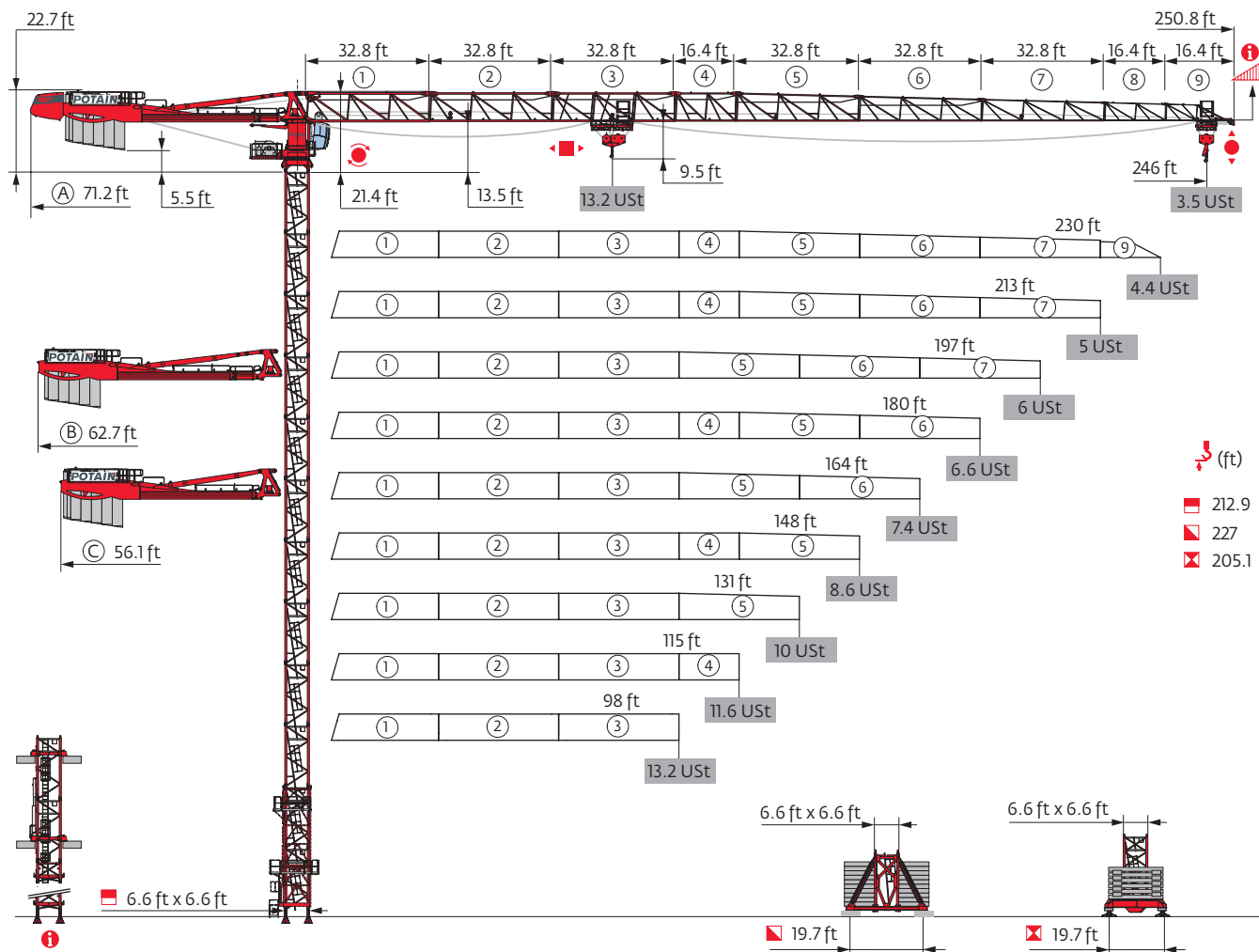


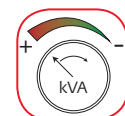
MDT 349 L12



Potain Plus



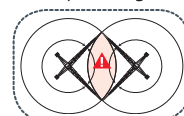
Power Control



Top Site



Top Tracing 3

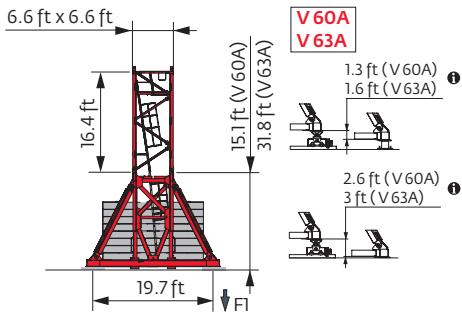
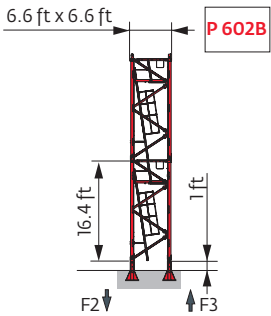






Mast - Reactions

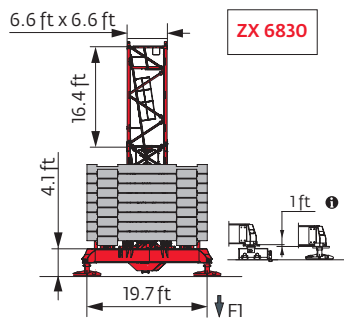
6.6 ft - P 602B										
Height (ft)	98	115	131	148	164	180	197	213	230	246
Height (ft)	212.9	207.4	207.4	207.4	207.4	207.4	207.4	202.1	202.1	202.1
Height/P ₊ (ft)	212.9	207.4	207.4	207.4	207.4	207.4	207.4	202.1	202.1	202.1
10.9 ft	1	2	2	2	2	2	2	0	0	0
	12	11	11	11	11	11	11	12	12	12
F2 (Ust)	209	211	211	206	209	205	205	209	212	210
	255	246	246	242	250	251	255	248	258	266
F3 (Ust)	147	147	145	139	142	138	138	141	144	141
	199	189	187	182	189	190	194	187	196	204

6.6 ft - V 60A -										
Height (ft)	98	115	131	148	164	180	197	213	230	246
Height (ft)	216.2	216.2	216.2	210.6	210.6	210.6	210.6	199.8	199.8	199.8
Height/P ₊ (ft)	216.2	216.2	216.2	210.6	210.6	210.6	210.6	199.8	199.8	199.8
10.9 ft	0	0	0	1	1	1	1	0	0	0
	12	12	12	11	11	11	11	11	11	11
F1 (Ust)	123	125	126	120	121	120	119	119	120	120
	130	132	132	123	126	126	129	121	125	129

6.6 ft - V 63A -										
Height (ft)	98	115	131	148	164	180	197	213	230	246
Height (ft)	227	227	227	221.8	221.8	221.8	221.8	216.2	216.2	216.2
Height/P ₊ (ft)	227	227	227	221.8	221.8	221.8	221.8	216.2	216.2	216.2
10.9 ft	1	1	1	2	2	2	2	0	0	0
	11	11	11	10	10	10	10	11	11	11
F1 (Ust)	130	133	133	127	128	127	127	128	130	129
	149	151	151	140	145	146	148	144	150	155



6.6 ft - ZX 6830 - 										
W (ft)	98	115	131	148	164	180	197	213	230	246
 (ft)	205.1	205.1	205.1	199.5	205.1	205.1	205.1	194.2	194.2	194.2
 /P (ft)	205.1	205.1	205.1	199.5	205.1	205.1	205.1	194.2	194.2	194.2
	10.9 ft	0	0	1	0	0	0	2	2	2
	16.4 ft	12	12	11	12	12	12	10	10	10
FI (Ust)	● 117	117	117	112	118	116	116	114	115	114
	■ 118	117	117	110	119	120	121	113	117	121







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.



Anchorage



Base ballast

 (USt) / 6.6 ft - V 60A - 										
ΔΔΔ (ft)	98	115	131	148	164	180	197	213	230	246
216.2	132.3	132.3	132.3							
210.6	132.3	119.1	119.1	119.1	119.1	119.1	119.1			
199.8	119.1	119.1	105.8	105.8	105.8	105.8	105.8	119.1	119.1	119.1
183.4	105.8	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
167	79.4	79.4	79.4	79.4	79.4	79.4	66.1	79.4	79.4	79.4
150.6	66.1	66.1	66.1	66.1	66.1	52.9	52.9	66.1	66.1	66.1
134.2	66.1	66.1	66.1	52.9	52.9	52.9	52.9	52.9	52.9	66.1
117.8	66.1	66.1	66.1	52.9	52.9	52.9	52.9	52.9	52.9	66.1
101.4	66.1	66.1	66.1	52.9	52.9	52.9	52.9	52.9	52.9	66.1
85	66.1	66.1	66.1	52.9	52.9	52.9	52.9	52.9	52.9	66.1
68.6	66.1	66.1	66.1	52.9	52.9	52.9	52.9	52.9	52.9	66.1

 (USt) / 6.6 ft - V 63A - 										
ΔΔΔ (ft)	98	115	131	148	164	180	197	213	230	246
227	145.5	145.5	145.5							
221.8	145.5	132.3	132.3	132.3	132.3	132.3	132.3			
216.2	132.3	132.3	132.3	132.3	132.3	119.1	119.1	132.3	132.3	132.3
199.8	119.1	119.1	119.1	105.8	105.8	105.8	105.8	119.1	119.1	119.1
183.4	105.8	92.6	92.6	92.6	92.6	92.6	92.6	105.8	92.6	92.6
167	92.6	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
150.6	66.1	66.1	66.1	66.1	66.1	66.1	52.9	66.1	66.1	66.1
134.2	52.9	66.1	66.1	52.9	52.9	52.9	52.9	52.9	66.1	66.1
117.8	52.9	66.1	66.1	52.9	52.9	52.9	39.7	52.9	52.9	66.1
101.4	52.9	66.1	66.1	52.9	52.9	52.9	39.7	52.9	52.9	66.1
85	52.9	66.1	66.1	52.9	52.9	52.9	39.7	39.7	52.9	66.1
68.6	52.9	66.1	66.1	52.9	52.9	52.9	39.7	39.7	52.9	66.1

 (USt) / 6.6 ft - ZX 6830 - 										
ΔΔΔ (ft)	98	115	131	148	164	180	197	213	230	246
205.1	122.4	111.3	111.3		111.3	111.3	111.3			
199.5	111.3	111.3	111.3	100.3	100.3	100.3	100.3			
194.2	111.3	100.3	100.3	100.3	100.3	100.3	89.3	100.3	100.3	100.3
177.8	89.3	89.3	89.3	78.3	78.3	78.3	78.3	89.3	89.3	89.3
161.4	78.3	78.3	78.3	67.2	67.2	67.2	67.2	67.2	67.2	67.2
145	56.2	67.2	67.2	56.2	56.2	45.2	45.2	56.2	56.2	67.2
128.6	56.2	67.2	67.2	56.2	56.2	45.2	45.2	45.2	56.2	67.2
112.2	56.2	67.2	67.2	56.2	56.2	45.2	45.2	45.2	56.2	56.2
95.8	56.2	67.2	67.2	56.2	56.2	45.2	45.2	45.2	56.2	56.2
79.4	56.2	67.2	67.2	56.2	56.2	45.2	45.2	45.2	56.2	56.2
63	56.2	67.2	67.2	56.2	56.2	45.2	45.2	45.2	56.2	56.2

Load curves



		(ft)	72	89	98	105	115	121	131	138	148	154	164	171	180	187	197	203	213	220	230	236	246	ft
		13.2 USt																						
		6.6 USt																						
246	10.2 → 73.6	130.7 - 142	13.2	10.6	9.4	8.7	7.8	7.3	6.6	6.6	6.3	6	5.6	5.3	5	4.8	4.4	4.2	4	3.8	3.5	3.4	3.2	USt
	10.2 → 75.4	134 - 145.5	13.2	10.9	9.7	8.9	8	7.5	6.8	6.6	6.5	6.2	5.7	5.5	5.1	4.9	4.6	4.4	4.2	4	3.8	3.7	3.5	USt P_+
230	10.2 → 78.8	140.1 - 151.7	13.2	11.5	10.2	9.4	8.4	7.9	7.2	6.8	6.6	6.5	6	5.7	5.3	5.1	4.8	4.5	4.3	4.1	3.8			USt
	10.2 → 83.9	149.3 - 161.7	13.2	12.4	10.9	10.1	9.1	8.5	7.8	7.3	6.7	6.6	6.5	6.2	5.8	5.6	5.3	5.1	4.8	4.6	4.4			USt P_+
213	10.2 → 83.2	149.3 - 161.3	13.2	12.3	10.9	10.1	9.1	8.5	7.7	7.3	6.7	6.6	6.5	6.2	5.7	5.5	5.1	4.9	4.6					USt
	10.2 → 88	157.9 - 170.6	13.2	13.1	11.6	10.8	9.7	9.1	8.3	7.8	7.2	6.8	6.6	6.6	6.2	5.9	5.6	5.3	5					USt P_+
197	10.2 → 87.9	158.6 - 170.8	13.2	13.1	11.6	10.8	9.7	9.1	8.3	7.8	7.2	6.8	6.6	6.6	6.2	6	5.6							USt
	10.2 → 92.3	166.6 - 180.4	13.2	13.2	12.3	11.4	10.3	9.7	8.8	8.3	7.7	7.3	6.7	6.6	6.6	6.3	6							USt P_+
180	10.2 → 90.1	162.6 - 175.2	13.2	13.2	12	11.1	10	9.4	8.6	8.1	7.4	7.1	6.6	6.6	6.4									USt
	10.2 → 95.5	172.4 - 180.4	13.2	13.2	12.8	11.9	10.7	10	9.2	8.7	8	7.6	7	6.7	6.6									USt P_+
164	10.2 → 94.3		13.2	13.2	12.6	11.7	10.6	9.9	9.1	8.6	7.9	7.5	7											USt
	10.2 → 98.7		13.2	13.2	13.2	12.3	11.1	10.4	9.5	9	8.3	7.9	7.3											USt P_+
148	10.2 → 96.6		13.2	13.2	13	12	10.9	10.2	9.3	8.8	8.1													USt
	10.2 → 101		13.2	13.2	13.2	12.7	11.4	10.7	9.8	9.3	8.5													USt P_+
131	10.2 → 97.6		13.2	13.2	13.1	12.2	11	10.3	9.4															USt
	10.2 → 102.5		13.2	13.2	13.2	12.9	11.6	10.9	10															USt P_+
115	10.2 → 97.2		13.2	13.2	13	12.1	11																	USt
	10.2 → 101.6		13.2	13.2	13.2	12.7	11.5																	USt P_+
98	10.2 → 98		13.2	13.2	13.2																			USt
	10.2 → 98		13.2	13.2	13.2																			USt P_+

$$U_{L1} = U_{L2} - 0.67 \text{ USt max.}$$



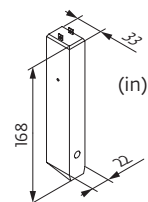
		(ft)	72	89	98	105	115	121	131	138	148	154	164	171	180	187	197	203	213	220	230	236	246	ft
		13.2 USt																						
		6.6 USt																						
246	7.9 → 73.9	131.8 - 134.7	13.2	10.7	9.4	8.7	7.8	7.3	6.6	6.4	5.9	5.6	5.2	4.9	4.6	4.3	4	3.8	3.5	3.4	3.1	2.95	2.75	USt
	7.9 → 75.7	135.1 - 138.1	13.2	11	9.7	9	8.1	7.6	6.9	6.6	6.1	5.8	5.3	5.1	4.7	4.5	4.2	4	3.8	3.6	3.4	3.3	3.1	USt P_+
230	7.9 → 78.8	141 - 144.4	13.2	11.6	10.2	9.5	8.5	8	7.2	6.8	6.4	6.1	5.6	5.4	4.9	4.7	4.4	4.2	3.9	3.7	3.4			USt
	7.9 → 83.9	150.3 - 154.2	13.2	12.4	11	10.2	9.2	8.6	7.8	7.4	6.8	6.6	6.1	5.8	5.4	5.2	4.9	4.7	4.4	4.2	4			USt P_+
213	7.9 → 83.6	150.4 - 154.2	13.2	12.4	11	10.2	9.2	8.6	7.8	7.4	6.8	6.6	6.1	5.8	5.4	5.1	4.7	4.5	4.2					USt
	7.9 → 88.6	159.1 - 162.8	13.2	13.2	11.7	10.8	9.8	9.2	8.3	7.9	7.2	6.9	6.6	6.3	5.8	5.6	5.2	5	4.6					USt P_+
197	7.9 → 88.6	159.9 - 164	13.2	13.2	11.7	10.9	9.8	9.2	8.4	7.9	7.3	6.9	6.6	6.3	5.9	5.6	5.3							USt
	7.9 → 92.7	168 - 171.9	13.2	13.2	12.4	11.5	10.4	9.7	8.9	8.4	7.7	7.3	6.8	6.6	6.2	6	5.6							USt P_+
180	7.9 → 90.5	163.9 - 167.8	13.2	13.2	12	11.2	10.1	9.5	8.6	8.1	7.5	7.1	6.6	6.5	6.1									USt
	7.9 → 95.9	173.8 - 177.9	13.2	13.2	12.8	11.9	10.8	10.1	9.2	8.7	8	7.6	7.1	6.8	6.5									USt P_+
164	7.9 → 94.7		13.2	13.2	12.7	11.8	10.7	10	9.2	8.7	8	7.6	7.1											USt
	7.9 → 99.2		13.2	13.2	13.2	12.4	11.2	10.5	9.6	9.1	8.4	7.9	7.4											USt P_+
148	7.9 → 97		13.2	13.2	13	12.1	10.9	10.2	9.4	8.8	8.2													USt
	7.9 → 101.7		13.2	13.2	13.2	12.7	11.5	10.8	9.9	9.3	8.6													USt P_+
131	7.9 → 98.4		13.2	13.2	13.2	12.2	11.1	10.4	9.5															USt
	7.9 → 102.9		13.2	13.2	13.2	12.9	11.7	11	10															USt P_+
115	7.9 → 97.7		13.2	13.2	13.1	12.2	11																	USt
	7.9 → 102.1		13.2	13.2	13.2	12.8	11.6																	USt P_+
98	7.9 → 98.4		13.2	13.2	13.2																			USt
	7.9 → 98.4		13.2	13.2	13.2																			USt P_+

$$U_{L1} = U_{L2} - 0.19 \text{ USt max.}$$

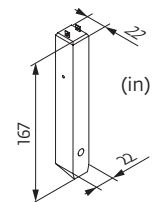
Jib weight & counter-jib ballast

	(lb) (+/- 5%)								
				10,141 lb	3,373 lb	(lb)	6,768 lb	3,373 lb	(lb)
246 ft	39,308	38,482	39,441	5	2	57,452	8	1	57,519
230 ft	38,735	37,942	38,845	5	2	57,452	8	1	57,519
213 ft	37,875	37,148	37,997	5	2	57,452	8	1	57,519
197 ft	35,605	34,943	35,737	5	1	54,079	8	0	54,146
180 ft	35,605	34,943	35,737	5	1	54,079	8	0	54,146
164 ft	33,510	32,849	33,643	5	2	57,452	8	1	57,519
148 ft	33,180	32,518	33,312	5	2	57,452	8	1	57,519
131 ft	31,350	30,688	31,482	5	0	50,706	7	1	50,750
115 ft	30,005	29,344	30,137	4	2	47,311	7	0	47,377
98 ft	28,175	27,514	28,307	4	1	43,938	6	1	43,982

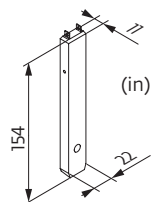
CBS - 10,141 lb



CBU - 6,768 lb

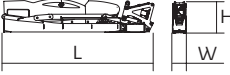

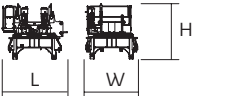
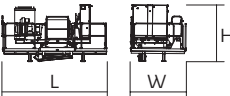
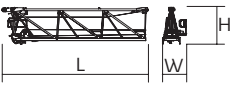
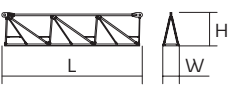
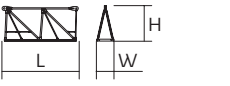
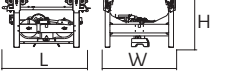

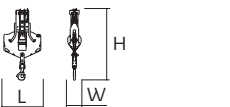

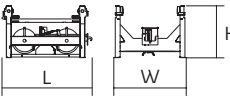

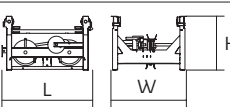


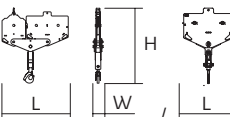




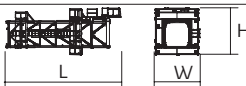
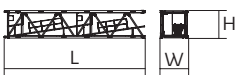
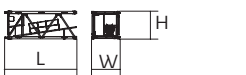
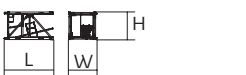
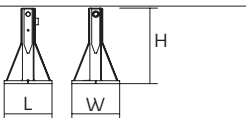

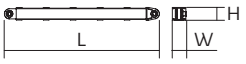
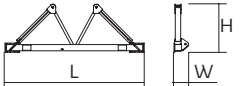

CBY - 3,373 lb












Dimensions and weight




Slewing crane part :  246 ft -  -  -  -  90 HPL™

Slewing crane part			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Counter-jib		Ⓐ Ⓑ Ⓒ	39.4 39.4 39.4	4.1 4.1 4.1	8.2 8.2 8.2	31,107 29,983 25,441
Cab mast + cab		Ultra View	16.5	7.3	8.2	14,815
Towerhead		⌈ 6.6 ft	9.7	8.1	8.2	16,799
Hoisting winch (+ rope)		90 HPL™ 100 LVF	14 14	7.5 7.5	7.6 7.6	9,921 10,913
Jib section		① 6 DVF	35.3	5.9	9	12,125
Jib section		② ③ ⑤ ⑥ ⑦	33.5 33.8 33.5 33.6 33.4	3.9 3.9 3.9 3.9 3.9	8.2 7.9 7.8 6.9 6	6,934 5,335 3,439 2,723 2,094
Jib section		④ ⑧ ⑨	17.3 16.7 16.7	3.9 3.9 3.9	7.8 5 4.6	2,116 683 485
Trolley		 13.2 Ust	6.1	5	3.4	882
Pulley block		 13.2 Ust	3.9	1.4	7.6	1,003
Trolley		 13.2 Ust	5.2	5	3.2	463
Trolley		 13.2 Ust  6.6 Ust	5.6 6.1	5 5	3.4 3.2	540 520
Pulley block		 13.2 Ust  6.6 Ust	5.4 3.6	0.7 0.9	5.8 5.3	992 584

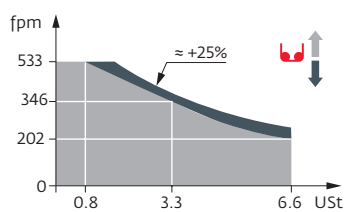
Crane tower			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Telescopic cage T 61		□ 6.6 ft	35.5	13.6	14.7	21,385
K 649B KM 649E		□ 6.6 ft □ 6.6 ft	33.6 33.8	6.8 6.7	6.7 6.7	11,663 10,692
K 649A KMT 649A KR 649A KRMT 649A		□ 6.6 ft □ 6.6 ft □ 6.6 ft □ 6.6 ft	17.2 17.2 17.2 17.2	6.8 6.8 6.9 6.9	6.7 6.7 6.8 6.8	6,184 5,666 7,165 6,724
K 649C KRMT 649C		□ 6.6 ft □ 6.6 ft	11.7 11.7	6.8 6.9	6.7 6.8	4,376 5,401
Fixing angles		P 602B	2.1	2.1	4.2	650
Basic mast unit		V 60A V 63A	16.4 32.9	7.9 7.9	7.9 7.9	9,674 16,502
Struts		V 60A V 63A	14.8 14.8	1 1.1	1 1.1	919 1,135
Half-bearer		V 60A V 63A	22 22	2.3 2.3	7.6 7.6	3,519 4,079
Cross girder		ZX 6830	29.9 29.9	3.7 2.5	3.6 4.9	11,607 12,004

Mechanisms



















480 V - 60 Hz													hp	kW		
	90 HPL™ 30	fpm	174	226	320	541	722	90	118	171	305	361	90	66	2,772 ft	
		USt	6.6	5	3.3	1.7	0.8	13.2	9.9	6.6	3.3	2.5				
	100 LVF 30 Optima	fpm	202	259	346	448	533	105	136	180	235	267	100	75	3,087 ft	
		USt	6.6	5	3.3	1.7	0.8	13.2	9.9	6.6	3.3	2.5				
	6 DVF 6 Optima	fpm	0 → 138 (13.2 USt) 0 → 276 (8.8 USt) 0 → 328 (4.4 USt)											5.5	4	
	RVF 172 Optima+	rpm	0 → 0.9											2 x 10	2 x 7.5	
																

	IEC 60204-32		kVA
480 V (+6% -10%) 60 Hz		90 HPL™ : 96 → 60 kVA 100 LVF: 104 → 64 kVA	
			

100 LVF 30 Optima



These mast combinations meet the EN 14439 and ASME B30.3-2012 specifications for "out of service" wind conditions, provided the illustrated wind speed matches required design wind 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-A. 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 50-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: winch 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		



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