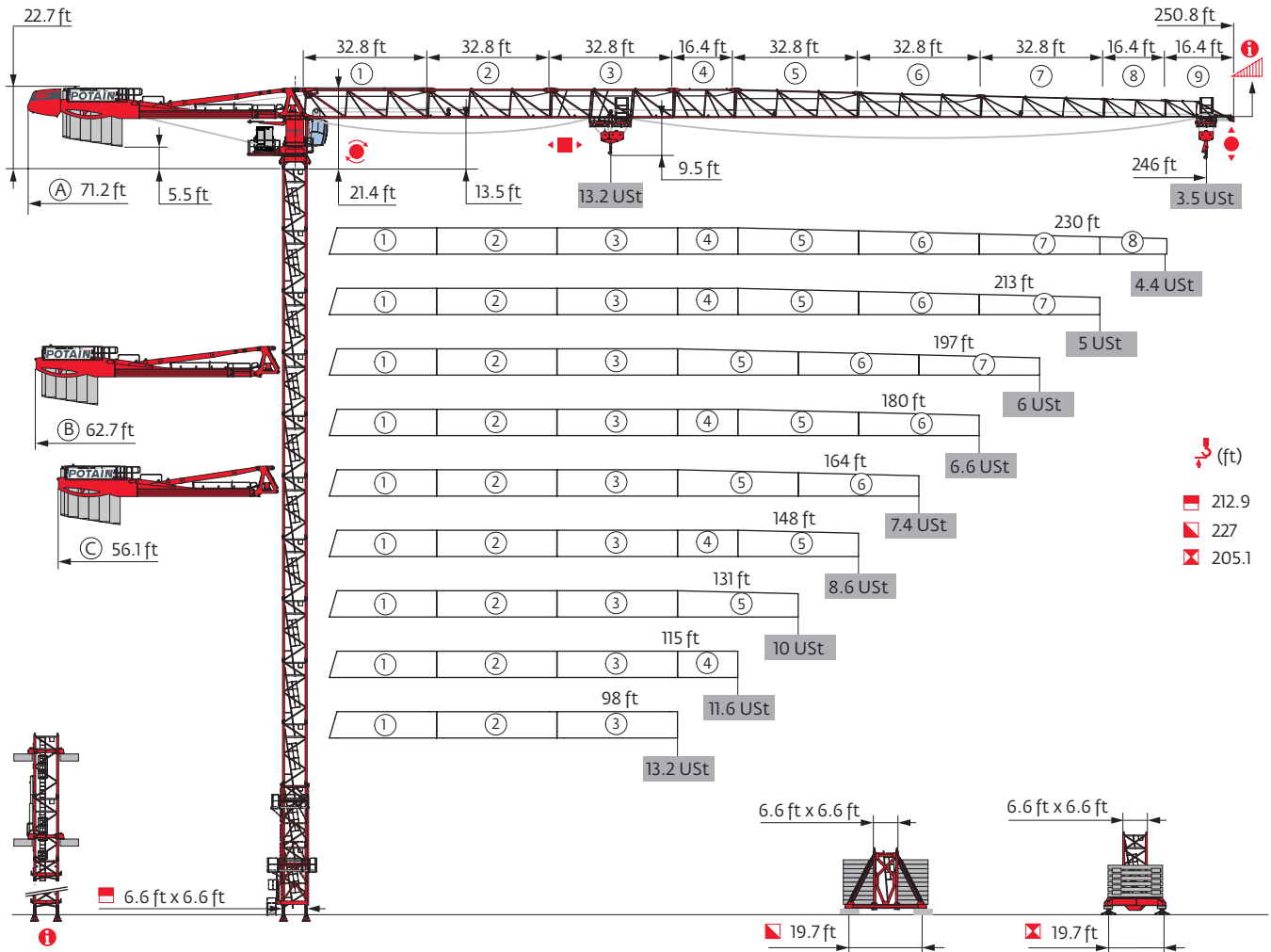


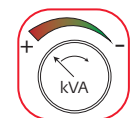
MDT 349 L12



Potain Plus



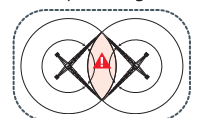
Power Control



Top Site



Top Tracing 3



Mast - Reactions

6.6 ft - P 602B

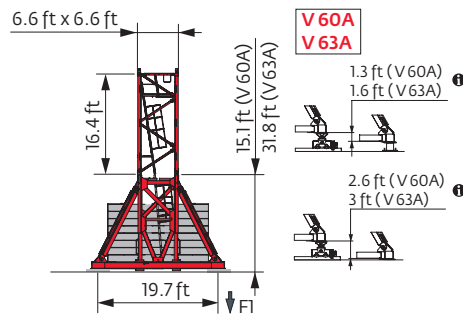
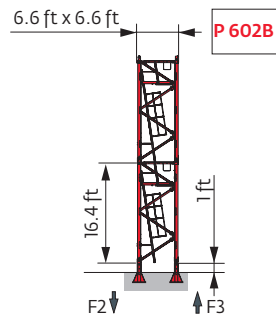
Height (ft)	98	115	131	148	164	180	197	213	230	246
Height (ft)	212.9	207.4	207.4	207.4	207.4	207.4	207.4	202.1	202.1	202.1
Height/P _r (ft)	212.9	207.4	207.4	207.4	207.4	207.4	207.4	202.1	202.1	202.1
10.9 ft	1	2	2	2	2	2	2	0	0	0
16.4 ft	12	11	11	11	11	11	11	12	12	12
F2 (Ust)	● 209	211	211	206	209	205	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

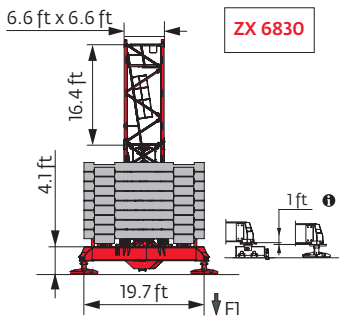
Height (ft)	98	115	131	148	164	180	197	213	230	246
Height (ft)	216.2	216.2	216.2	210.6	210.6	210.6	210.6	199.8	199.8	199.8
Height/P _r (ft)	216.2	216.2	216.2	210.6	210.6	210.6	210.6	199.8	199.8	199.8
10.9 ft	0	0	0	1	1	1	1	0	0	0
16.4 ft	12	12	12	11	11	11	11	11	11	11
F1 (Ust)	● 123	125	126	120	121	120	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 _r (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
16.4 ft	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 - 										
WZ (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_r (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	12	11	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.

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

Anchorage



Base ballast

USt / 6.6 ft - V 60A -

AVAIL (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 -

AVAIL (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	66.1	66.1	66.1	52.9	52.9	52.9	52.9	52.9	66.1	66.1
117.8	66.1	66.1	66.1	52.9	52.9	52.9	52.9	52.9	66.1	66.1
101.4	66.1	66.1	66.1	52.9	52.9	52.9	39.7	52.9	52.9	66.1
85	66.1	66.1	66.1	52.9	52.9	52.9	39.7	39.7	52.9	66.1
68.6	66.1	66.1	66.1	52.9	52.9	52.9	39.7	39.7	52.9	66.1

USt / 6.6 ft - ZX 6830 -

AVAIL (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 10.2 → 75.4	130.7 - 142 134 - 145.5						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	
230	10.2 → 78.8 10.2 → 83.9	140.1 - 151.7 149.3 - 161.7						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+	
213	10.2 → 83.2 10.2 → 88	149.3 - 161.3 157.9 - 170.6						6.6	6.5	6.2	5.7	5.5	5.1	4.9	4.6	4.4	USt							
197	10.2 → 87.9 10.2 → 92.3	158.6 - 170.8 166.6 - 180.4						6.6	6.6	6.2	6	5.6	USt											
180	10.2 → 90.1 10.2 → 95.5	162.6 - 175.2 172.4 - 180.4						6.6	6.6	6.4	USt													
164	10.2 → 94.3 10.2 → 98.7							6.6	6.5	6.2	5.7	5.5	USt											
148	10.2 → 96.6 10.2 → 101							6.6	6.6	6.3	6	USt												
131	10.2 → 97.6 10.2 → 102.5							6.6	6.6	6.7	6.6	USt												
115	10.2 → 97.2 10.2 → 101.6							USt																
98	10.2 → 98 10.2 → 98							USt																

$$w_{load} = w_{USt} - 0.67 USt \text{ max.}$$



(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 7.9 → 75.7	131.8 - 134.7 135.1 - 138.1						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		
230	7.9 → 78.8 7.9 → 83.9	141 - 144.4 150.3 - 154.2						6.4	6.1	5.6	5.4	4.9	4.7	4.4	4.2	3.9	3.7	3.4	USt					
213	7.9 → 83.6 7.9 → 88.6	150.4 - 154.2 159.1 - 162.8						6.6	6.1	5.8	5.4	5.1	4.7	4.5	4.2	USt								
197	7.9 → 88.6 7.9 → 92.7	159.9 - 164 168 - 171.9						6.6	6.3	5.9	5.6	5.3	USt											
180	7.9 → 90.5 7.9 → 95.9	163.9 - 167.8 173.8 - 177.9						6.6	6.5	6.1	USt													
164	7.9 → 94.7 7.9 → 99.2							6.6	6.6	6.2	6	5.6	USt											
148	7.9 → 97 7.9 → 101.7							6.6	6.6	6.2	6	5.6	USt											
131	7.9 → 98.4 7.9 → 102.9							6.6	6.6	6.2	6	5.6	USt											
115	7.9 → 97.7 7.9 → 102.1							USt																
98	7.9 → 98.4 7.9 → 98.4							USt																

$$w_{load} = w_{USt} - 0.19 USt \text{ max.}$$

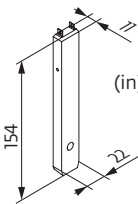
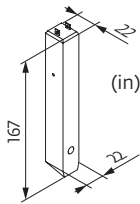
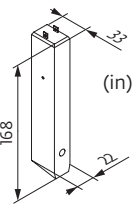
Jib weight & counter-jib ballast

	(lb) (+/- 5%)								
				10,141 lb	3,373 lb		6,768 lb	3,373 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

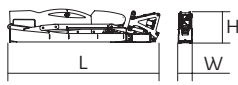

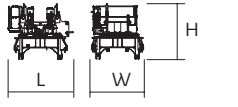
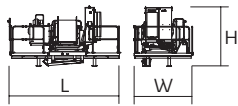
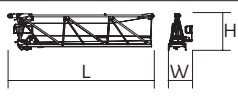
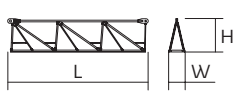
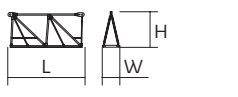
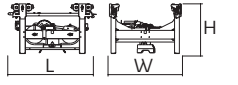

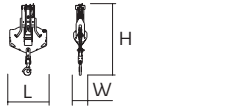

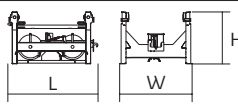

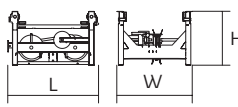


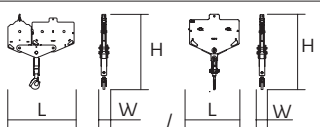


CBY - 3,373 lb

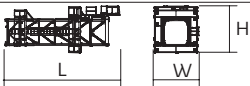

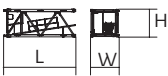

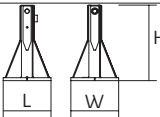
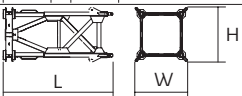
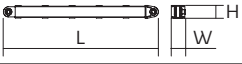
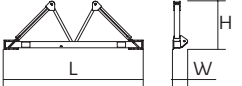



Dimensions and weight

Slewing crane part :  246 ft -  -  90 HPL™



Slewing crane part		L (ft)	W (ft)	H (ft)	lb (+/- 5%)	
Counter-jib		Ⓐ	39.4	4.1	8.2	31,107
		Ⓑ	39.4	4.1	8.2	29,983
		Ⓒ	39.4	4.1	8.2	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™	14	7.5	7.6	9,921
Jib section		① 6 DVF	35.3	5.9	9	12,125
Jib section		②	33.5	3.9	8.2	6,934
		③	33.8	3.9	7.9	5,335
		⑤	33.5	3.9	7.8	3,439
		⑥	33.6	3.9	6.9	2,723
		⑦	33.4	3.9	6	2,094
Jib section		④	17.3	3.9	7.8	2,116
		⑧	16.7	3.9	5	683
		⑨	16.7	3.9	4.6	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	5.6	5	3.4	540
		 6.6 Ust	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	584

Crane tower		L (ft)	W (ft)	H (ft)	Ib (+/- 5%)	
Telescopic cage T 61		6.6 ft	35.5	13.6	14.7	21,385
K 649B KM 649E		6.6 ft	33.6	6.8	6.7	11,663
		6.6 ft	33.8	6.7	6.7	10,692
K 649A KMT 649A KR 649A KRMT 649A		6.6 ft	17.2	6.8	6.7	6,184
		6.6 ft	17.2	6.8	6.7	5,666
		6.6 ft	17.2	6.9	6.8	7,165
		6.6 ft	17.2	6.9	6.8	6,724
K 649C KMT 649C KRMT 649C		6.6 ft	11.7	6.8	6.7	4,376
		6.6 ft	11.7	6.8	6.7	4,542
		6.6 ft	11.7	6.9	6.8	5,401
Fixing angles		P 602B	2.1	2.1	4.2	761
Basic mast unit		V 60A	16.4	7.9	7.9	10,494
		V 63A	32.9	7.9	7.9	16,887
Struts		V 60A	14.8	1	1	1,036
		V 63A	14.8	1.1	1.1	1,235
Half-bearer		V 60A	22	2.3	7.6	4,057
		V 63A	22	2.3	7.6	4,101
Cross girder		ZX 6830	29.9	3.7	3.6	11,607
			29.9	2.5	4.9	12,004

Mechanisms

480 V - 60 Hz													hp	kW	
	90 HPL™ 30	fpm USt	176 6.6	228 5	326 3.3	469 1.7	723 0.2	90 13.2	120 9.9	172 6.6	244 3.3	361 0.9	90	66	2,772 ft
	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		

	kVA		
480 V (+6% -10%) 60 Hz	90 HPL™ : 96 → 60 kVA		

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: 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

This commercial document is not legally binding. For any technical information, please refer to the corresponding instructions.

