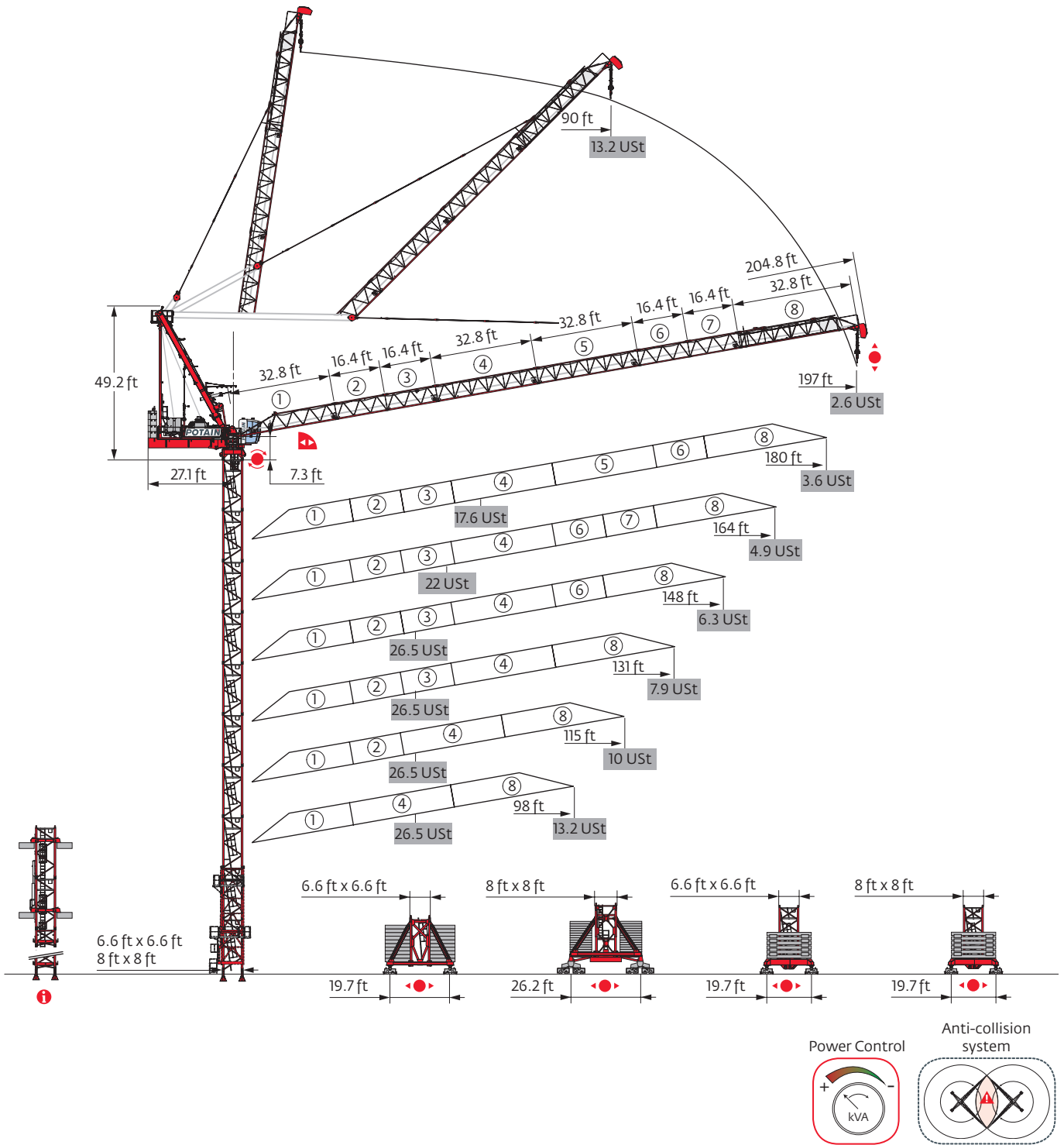
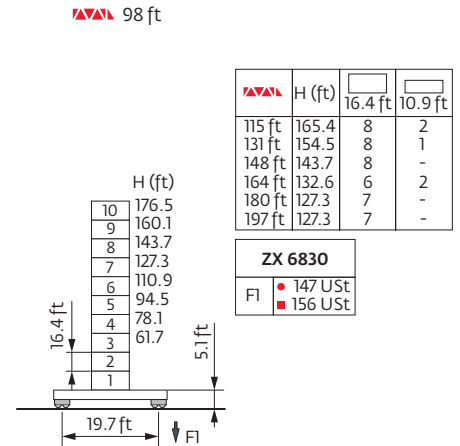
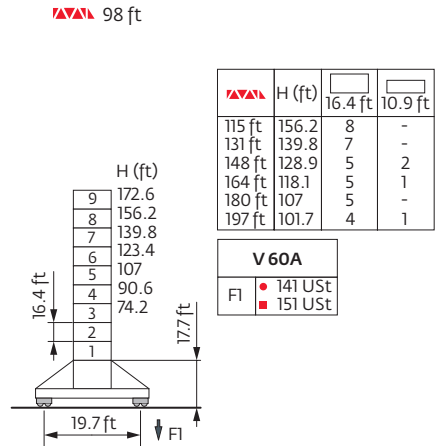
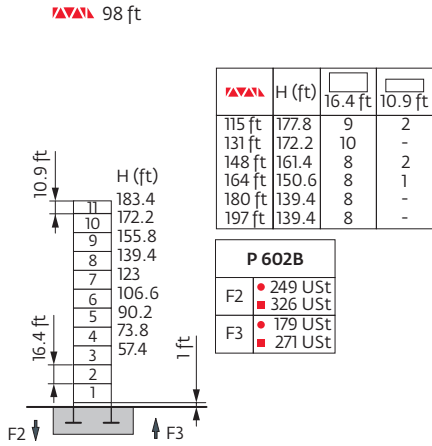


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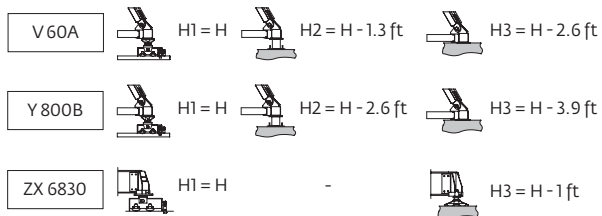
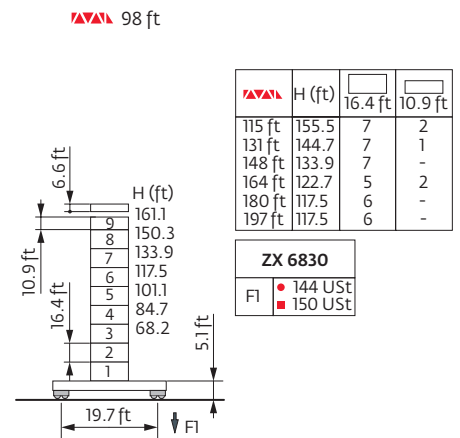
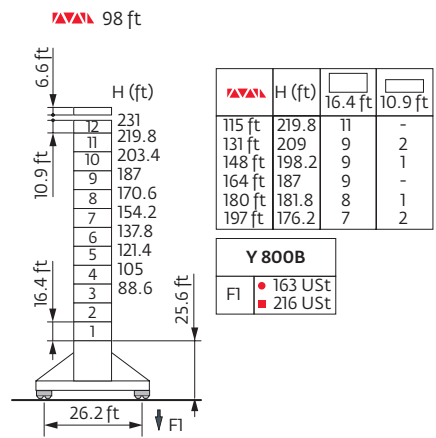
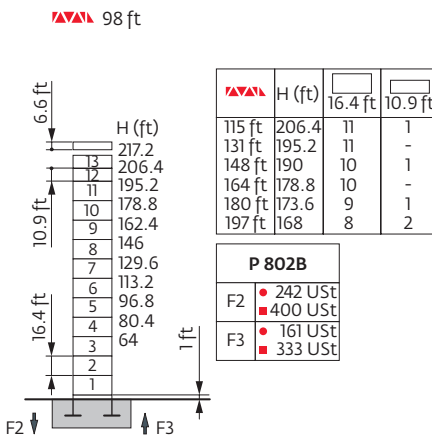


Mast - Reactions

6.6 ft



8 ft



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 of Cab-IN and TCL types: Adapted mast compositions, base ballast and reactions.

Anchorage



Load curves

197 ft	16								90	98	105	115	121	131	138	148	154	164	180	197	ft
	↓	13.2 11.4 10.3 8.8 7.9 6.8 6.2 5.3 4.7 4.1 3.1 2.6 USt																			
180 ft	16			71	72	82	90	92	98	105	115	121	131	138	148	154	164	180	181	ft	
	↓	17.6 17.3 14.3 - 11.9 10.7 9.5 8 7.3 6.2 5.5 4.6 4.1 3.4 2.9 2.9 USt																			
	↓	13.2 12.9 11.6 10.5 8.9 8.2 7.1 6.4 5.5 5 4.3 3.6 3.6 USt																			
164 ft	16			61	66	72	82	91.5	92	98	105	115	121	131	138	148	154	164	165	ft	
	↓	22 20 17.4 14.3 - 12 10.7 9.6 8.2 7.3 6.2 5.5 5.3 4.7 4 3.9 USt																			
	↓	13.2 13.1 11.8 10.7 9.1 8.4 7.3 6.6 5.6 5.2 4.9 4.7 USt																			
148 ft	13			54	56	66	72	82	89	93	98	105	115	121	131	138	148	149	ft		
	↓	26.5 25.4 20.4 17.9 14.8 13.1 - 11.1 9.9 8.5 8.3 7.2 6.4 5.4 5.3 USt																			
	↓	13.2 12.2 11 9.5 8.7 7.5 6.8 6.3 6.2 USt																			
131 ft	13			55	56	66	72	82	89	94	98	105	115	121	131	133	ft				
	↓	26.5 25.7 20.7 18.2 15.1 13.4 - 11.4 10.9 9.4 8.5 7.2 6.9 USt																			
	↓	13.2 12.5 11.2 9.7 8.8 7.9 7.7 USt																			
115 ft	13			55	56	66	72	82	89	96	98	105	115	118	ft						
	↓	26.5 26 20.9 18.4 15.3 13.7 - 12.3 11.1 9.5 9 USt																			
	↓	13.2 12.8 11.6 10 9.9 USt																			
98 ft	10			55	56	66	72	82	89	95	98	102	ft								
	↓	26.5 26 21.1 18.5 15.5 14.4 13 12.2 11.6 USt																			
	↓	13.2 12.6 USt																			

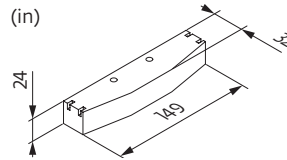
Base ballast

	6.6 ft				8 ft			
	V 60A		ZX 6830		Y 800B		ZX 6830	
	H (ft)	USt	H (ft)	USt	H (ft)	USt	H (ft)	USt
98 ft	172.6	145.5	176.5	155.4	231	185.2	161.1	144.4
115 ft	156.2	145.5	165.4	166.5	219.8	198.4	155.5	166.5
131 ft	139.8	145.5	154.5	166.5	209	198.4	144.7	155.4
148 ft	128.9	145.5	143.7	166.5	198.2	198.4	133.9	155.4
164 ft	118.1	145.5	132.6	166.5	187	198.4	122.7	155.4
180 ft	107	145.5	127.3	188.5	181.8	198.4	117.5	166.5
197 ft	101.7	145.5	127.3	199.5	176.2	198.4	117.5	177.5

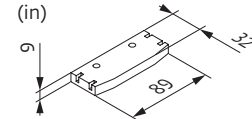
Jib weight & counter-jib ballast

	Jib Weight (lb) (+/- 5%)	180 LVF		
		8,708 lb	2,205 lb	USt (lb)
98 ft	12,192	4	0	34,833
115 ft	14,065	4	0	34,833
131 ft	15,807	4	0	34,833
148 ft	17,196	4	0	34,833
164 ft	18,508	4	1	37,038
180 ft	19,709	4	1	37,038
197 ft	20,988	4	1	37,038

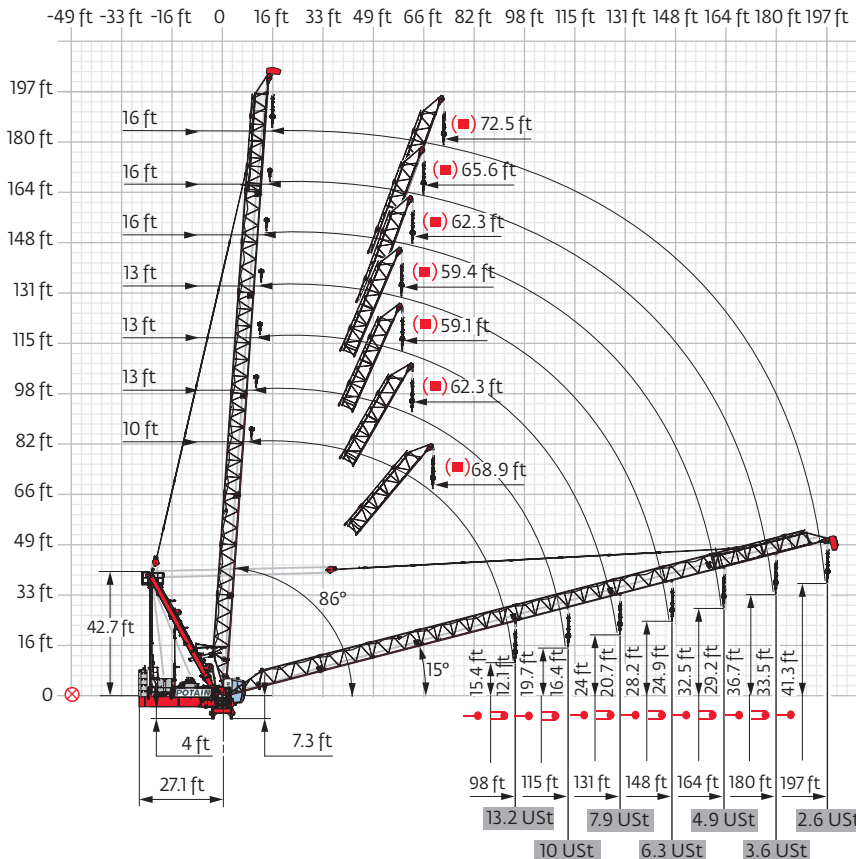
CBJ - 8,708 lb



CBK - 2,205 lb



Luffing jib



Dimensions and weight









Slewing crane part: 197 ft - 180 LVF





Slewing crane part		L (ft)	W (ft)	H (ft)	lb (+/- 5%)	
Counter-jib		25.7	19.6	15.7	16,887	
Strut		8.1	7.2	39	18,475	
Cab	Ultra View	15.1	7.2	9.6	4,453	
Towerhead	6.6 ft	10.2	9.8	10.2	21,275	
Jib section	①	33.7	6.2	6.5	3,990	
Jib section		②	17	5.9	5.5	1,499
		③	17	5.9	5.4	1,631
		⑥	17	5.9	5.4	1,135
		⑦	17	5.9	5.4	1,257
Jib section		④	33.4	5.9	5.5	2,910
		⑤	33.4	5.9	5.4	2,337
Jib section	⑧	38.9	6	6.9	3,197	
Pulley block		5.1	1.5	8.2	2,017	
Hoisting winch (+ rope)	180 LVF	16.1	7.4	6.3	23,501	
Luffing winch (+ rope)	100 VVF	10.4	5.8	6.2	7,837	


















Crane tower			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
T 61 T 851		□ 6.6 ft □ 8 ft	35.5 36.7	13.6 15.9	14.7 19	21,385 34,723
K 649B KM 649E		□ 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 KRMT 849A K 849A		□ 6.6 ft □ 6.6 ft □ 6.6 ft □ 6.6 ft □ 8 ft □ 8 ft	17.2 17.2 17.2 17.2 17.2 17.2	6.8 6.8 6.9 6.8 8.4 8.3	6.7 6.7 6.8 6.8 8.3 8.2	6,184 5,666 7,165 6,724 9,017 7,496
K 649C KRMT 649C KRMT 849C		□ 6.6 ft □ 6.6 ft □ 8 ft	11.7 11.7 11.7	6.8 6.9 8.4	6.7 6.8 8.3	4,376 5,401 7,066
K800/KR60 Connecting mast		□ 8/6.6 ft	7.3	10.7	8.1	9,304
Fixing angles		P 602B P 802B	2.1 2.5	2.1 2.5	4.2 4.2	650 1,025
Basic mast unit		V 60A Y 800B	16.4 19.8	7.9 9.6	7.9 9.6	9,674 19,004
Struts		V 60A Y 800B	14.8 18.1	1 1.6	1 1.5	919 2,447
Half-bearer		V 60A	22	2.3	7.6	3,519
1/2 Side member		Y 800B	18.6	4.1	2.4	3,351
Side member		Y 800B	39.4	4.1	2.4	6,724
Ballast support		Y 800B	12.3	1.2	3	2,392
Chassis beam		Y 800B	28.5	2.7	2.4	4,938
Cross girder		ZX 6830	29.9 29.9	2.5 3.7	4.9 3.6	12,004 11,607

Mechanisms

480 V - 60 Hz													hp	kW	
	180 LVF 120 Optima	fpm	184	240	341	564	689	92	121	171	282	344	180	132	2,044 ft
		USt	13.2	9.9	6.6	3.3	2.3	26.5	19.8	13.2	6.6	6			
	100 VVF 40		1 min 40 s									100	75		
	RVF 172 Optima+	rpm	0 → 0.9									2 x 10	2 x 7.5		
															

 IEC 60204-32	 kVA
480 V (+6% -10%) 60 Hz	243 → 171 kVA 

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.

- | | | |
|--|---|--|
|  Standard equipment |  Jib articulation axis |  Slewing |
|  Options |  Weathervaning position |  Travelling |
|  Reactions in service |  Lorry 44 ft |  Required power |
|  Reactions out of service |  Container High Cube 40 ft, and/or Flat Rack 20 ft |  Power Control Function: winch speeds adapted to the available power |
|  Jib weight |  Hoisting |  Consult us |
|  Total ballast weight |  Luffing | |

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