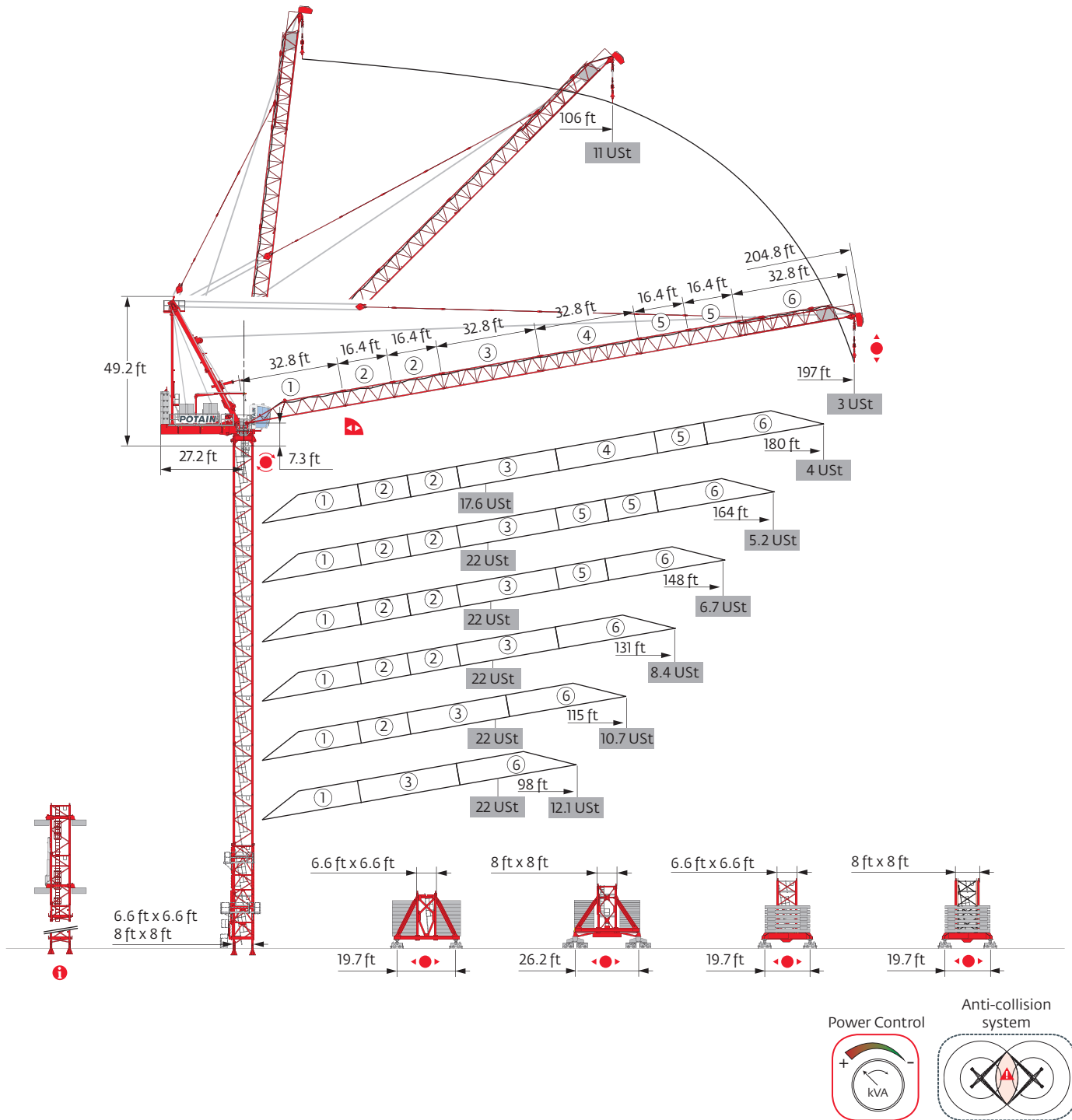
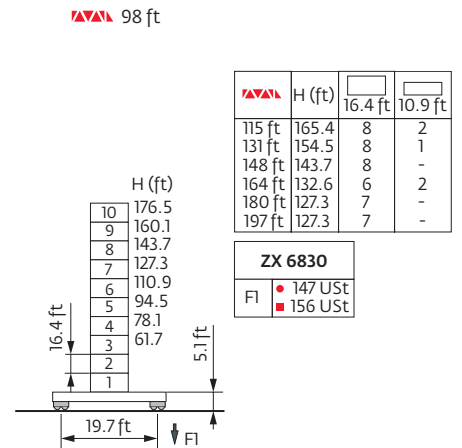
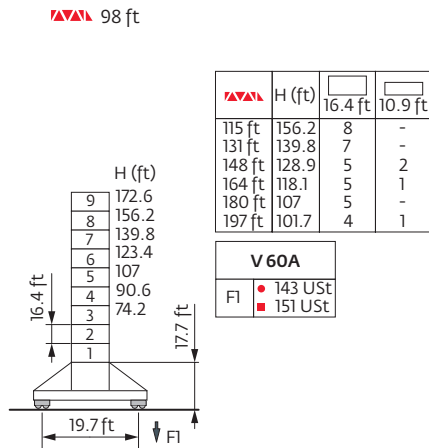
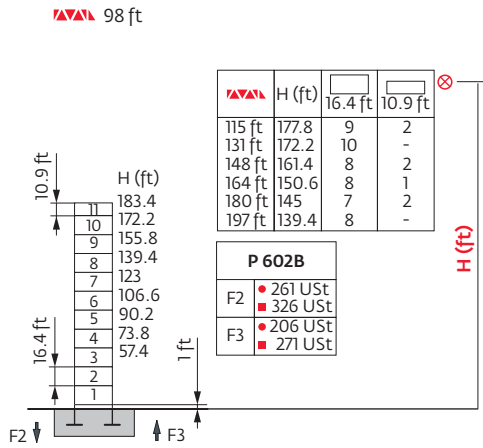


**MR 295 H20**

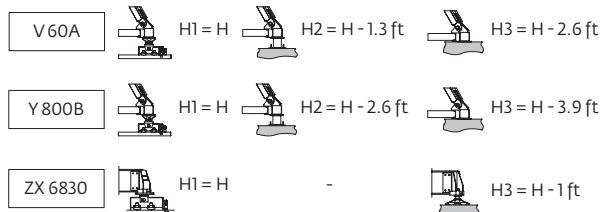
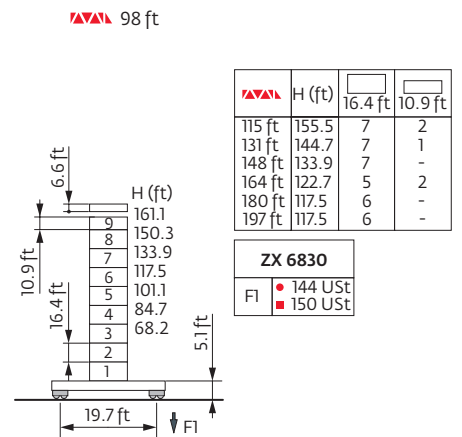
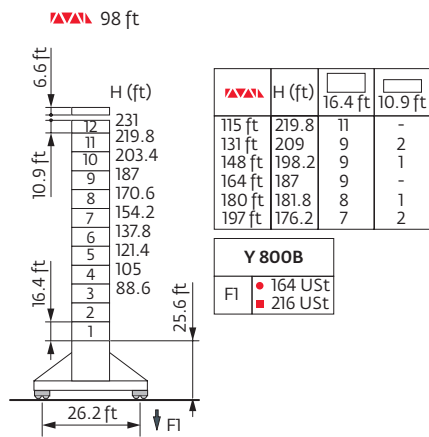
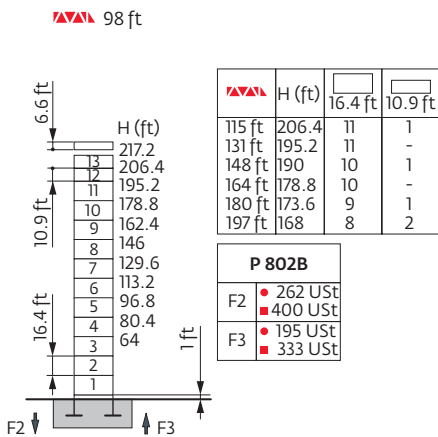


Mast - Reactions

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.

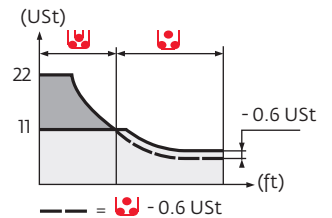
Motorized accesses: adapted mast compositions, base ballast and reactions.

Anchorage



Load curves

197 ft	16 ▶																				106	115	121	131	138	148	154	164	171	180	187	197	ft																							
																					11	9.6	8.7	7.5	6.8	6	5.4	4.6	4.2	4	3.5	3	USt																							
180 ft	15 ▶																																						73	82	89	90	98	105	106	115	121	131	138	148	154	164	171	180	181	ft
																																							17.6	14.7	13	-	10.9	9.7	-	8.8	7.9	6.8	6.2	5.5	5.3	4.5	4	3.3	3.3	USt
																																							13.2	11.4	10.1	-	8.7	7.8	6.7	6.1	5.3	5	4.2	3.7	3.1	3.1	USt			
																																							11	9.7	8.8	7.6	6.9	6.1	5.5	5	4.6	4	4	USt						
164 ft	14 ▶																																						62	66	72	77	82	89	101	105	107	115	121	131	138	148	154	164	165	ft
																																							22	20.3	17.7	-	14.7	13	11	10.3	-	8.8	8.2	7.4	6.7	5.7	5.2	4.4	4.3	USt
																																							16.5	15.1	13.4	-	10.1	-	8.7	7.8	7.1	6.4	5.5	5	4.2	4.1	USt			
																																							11	9.8	8.9	7.8	7.1	6.2	6	5.2	5.1	USt								
148 ft	13 ▶																																						62	66	72	77	82	89	102	105	109	115	121	131	138	148	149	ft		
																																							22	20.5	17.9	-	14.8	13.1	11	10.5	-	9.6	8.7	7.5	6.7	5.7	5.6	USt		
																																							16.5	15.2	13.6	10.9	10.4	-	9.3	8.4	7.2	6.5	5.5	5.4	USt					
																																							11	10.1	9.1	8	7.3	6.7	6.5	USt										
131 ft	12 ▶																																						63	66	72	78	82	89	98	103	110	115	121	131	134	ft				
																																							22	20.7	18.1	-	15	13.3	11.2	11	-	9.7	8.8	7.5	7.3	USt				
																																							16.5	15.4	13.8	11.7	-	-	9.4	8.5	7.3	7	USt							
																																							11	10.3	9.4	8.4	8	USt												
115 ft	11 ▶																																						63	66	72	79	82	89	98	104	113	115	118	ft						
																																							22	20.9	18.3	-	15.3	13.6	12	11	-	9.8	9.4	USt						
																																							16.5	15.8	14.1	12.2	-	-	9.5	9.1	USt									
																																							11	10.7	10.2	USt														
98 ft	10 ▶																																						64	66	72	79	82	89	98	102	ft									
																																							22	21.2	18.5	-	15.5	14.3	12.1	11.4	USt									
																																							16.5	15.7	14.2	12.1	11.4	USt												
																																							11	USt																

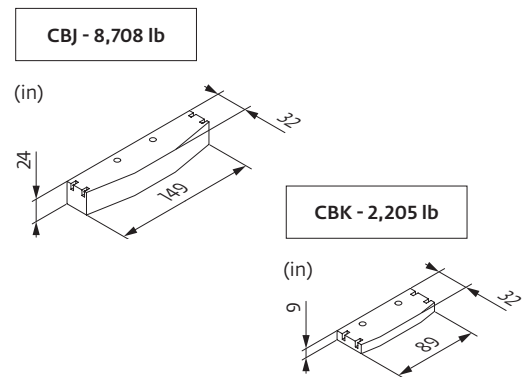


Base ballast

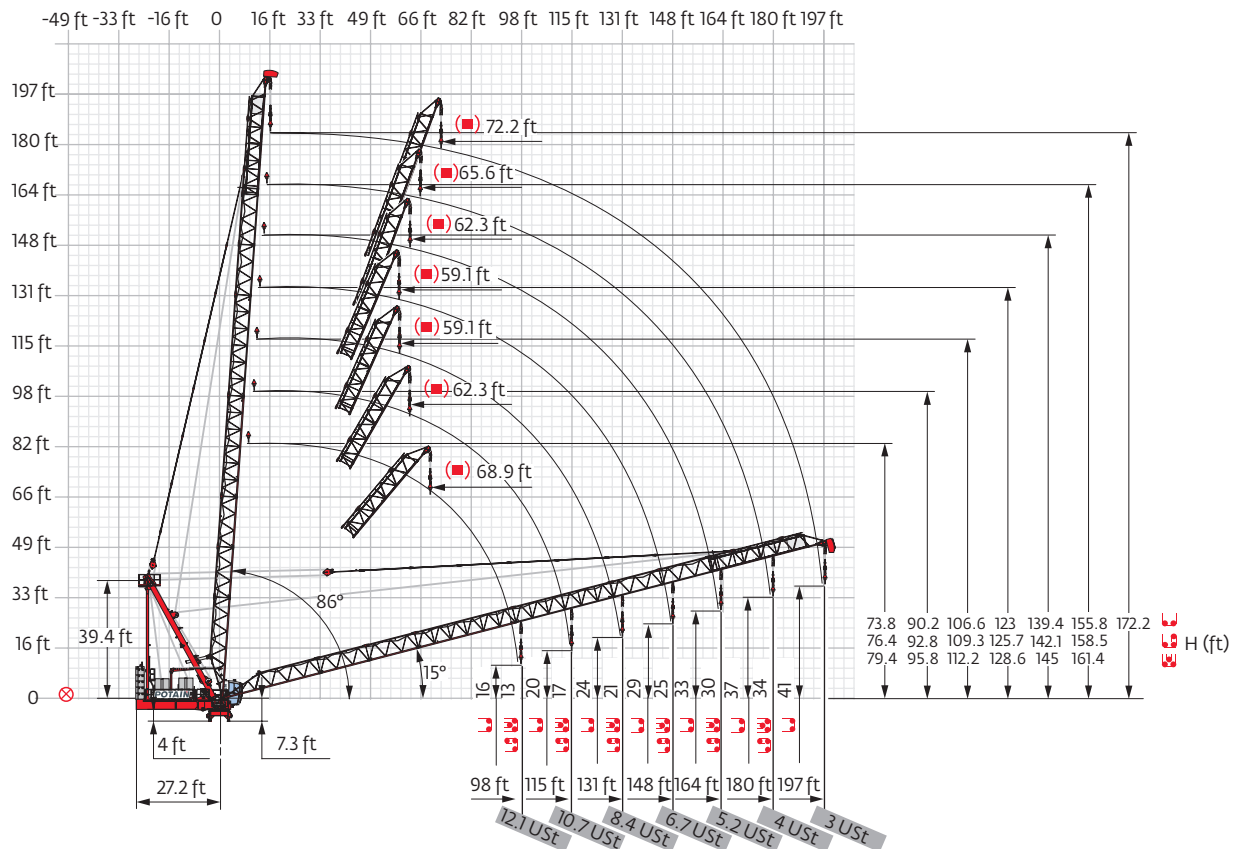
	6.6 ft				8 ft			
	V 60A		ZX 6830		Y 800B		ZX 6830	
	H (ft)	(Ust)	H (ft)	(Ust)	H (ft)	(Ust)	H (ft)	(Ust)
98 ft	172.6	145.5	176.5	155.4	231	185.2	161.1	144.4
115 ft	156.2	145.5	165.4	166.5	219.8	198.4	155.5	166.5
131 ft	139.8	145.5	154.5	166.5	209	198.4	144.7	155.4
148 ft	128.9	145.5	143.7	166.5	198.2	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

	Luffing Jib (lb) (+/- 5%)			100 LVF		180 HPL™GH			
	Ust	Ust	Ust	8,708 lb	2,205 lb	(lb)	8,708 lb	2,205 lb	(lb)
98 ft	13,228	12,699	12,192	5	0	43,541	4	3	41,447
115 ft	15,102	14,573	14,065	5	0	43,541	4	3	41,447
131 ft	16,843	16,314	15,807	5	0	43,541	4	3	41,447
148 ft	18,232	17,703	17,196	5	0	43,541	4	3	41,447
164 ft	19,544	19,015	18,508	5	1	45,746	5	0	43,541
180 ft	20,745	20,216	19,709	5	1	45,746	5	0	43,541
197 ft	-	-	20,988	5	1	45,746	5	0	43,541



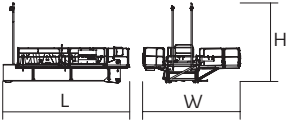
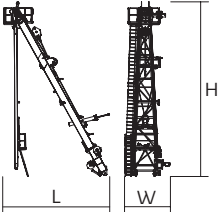
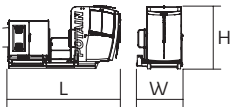
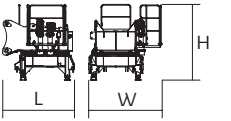



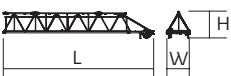
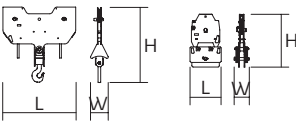
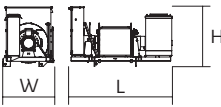
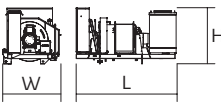
Luffing jib



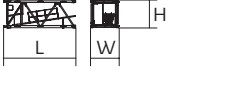
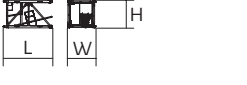
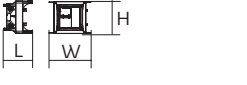

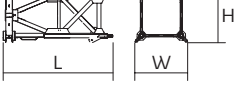
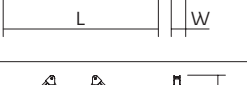
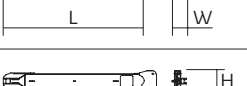
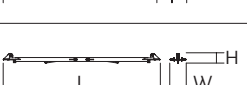
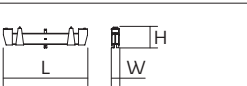
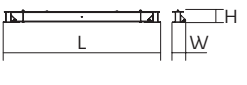

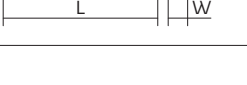



Dimensions and weight










Slewing crane part:  197 ft -  100 LVF




Slewing crane part			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Counter-jib		100 LVF 180 HPL™GH	23.9 23.9	17.6 18.4	15.6 15.6	16,479 16,722
Strut			24.9	10.8	42.7	15,465
Cab		Ultra View	15.6	6.1	8.3	4,057
Towerhead		□6.6 ft	9.8	7.5	10.3	20,172
Jib section		①	33.7	6.2	6.5	3,241
Jib section		② ⑤	17 17	5.9 5.9	5.5 5.4	1,433 1,168
Jib section		③ ④	33.4 33.4	5.9 5.9	5.5 5.4	2,712 2,338
Jib section		⑥	38.7	6	6.5	2,998
Pulley block			5.9 2	1.4 0.6	8.8 3.8	1,087 897
Hoisting winch (+ rope)		100 LVF 180 HPL™GH	10.4 15.8	5.2 6.1	6.2 6.2	9,822 30,216
Luffing winch (+ rope)		100 VVF	10.4	5.8	6.2	6,614

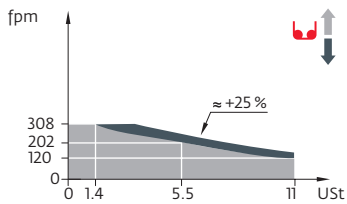
Crane tower			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
T 61 T 851		□ 6.6 ft □ 8 ft	35.5 36.7	13.6 15.9	14.7 19	21,385 34,723
K 649B KM 649E		□ 6.6 ft □ 6.6 ft	33.6 33.8	6.8 6.7	6.7 6.7	11,663 10,692
K 649A KMT 649A KR 649A KRMT 649A K 849A KR 849A KRMT 849A		□ 6.6 ft □ 6.6 ft □ 6.6 ft □ 6.6 ft □ 8 ft □ 8 ft □ 8 ft	17.2 17.2 17.2 17.2 17.2 17.2 17.2	6.8 6.8 6.9 6.8 8.3 8.2 8.4	6.7 6.7 6.8 6.8 8.2 8.2 8.3	6,184 5,666 7,165 6,724 7,496 9,458 9,017
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	
	100 LVF 50 Optima	fpm	120	153	202	258	308	61	79	105	146	154	100	75	3,340 ft
		USt	11	8.3	5.5	2.8	1.4	22	16.5	11	5.5	4.3			
	180 HPL™ 50 GH	fpm	210	256	333	494	640	107	131	174	271	320	180	132	3,937 ft
		USt	11	8.3	5.5	2.8	0.9	22	16.5	11	5.5	3.3			
	100 VVF 40		1 min 40 s									100	75		
	RVF 172 Optima+	rpm	0 → 0.8									2 x 10	2 x 7.5		
															

 IEC 60204-32	 kVA
480V (+6% -10%) 60 Hz	100 LVF : 179 kVA 180 HPL™ GH : 243 → 171 kVA 

100 LVF 50 Optima



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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**RMC**  
ROCKY MOUNTAIN CRANE  
**208-696-1476**  
14032 HWY 55  
McCall, ID 83638  
**rockymtncranes.com**



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