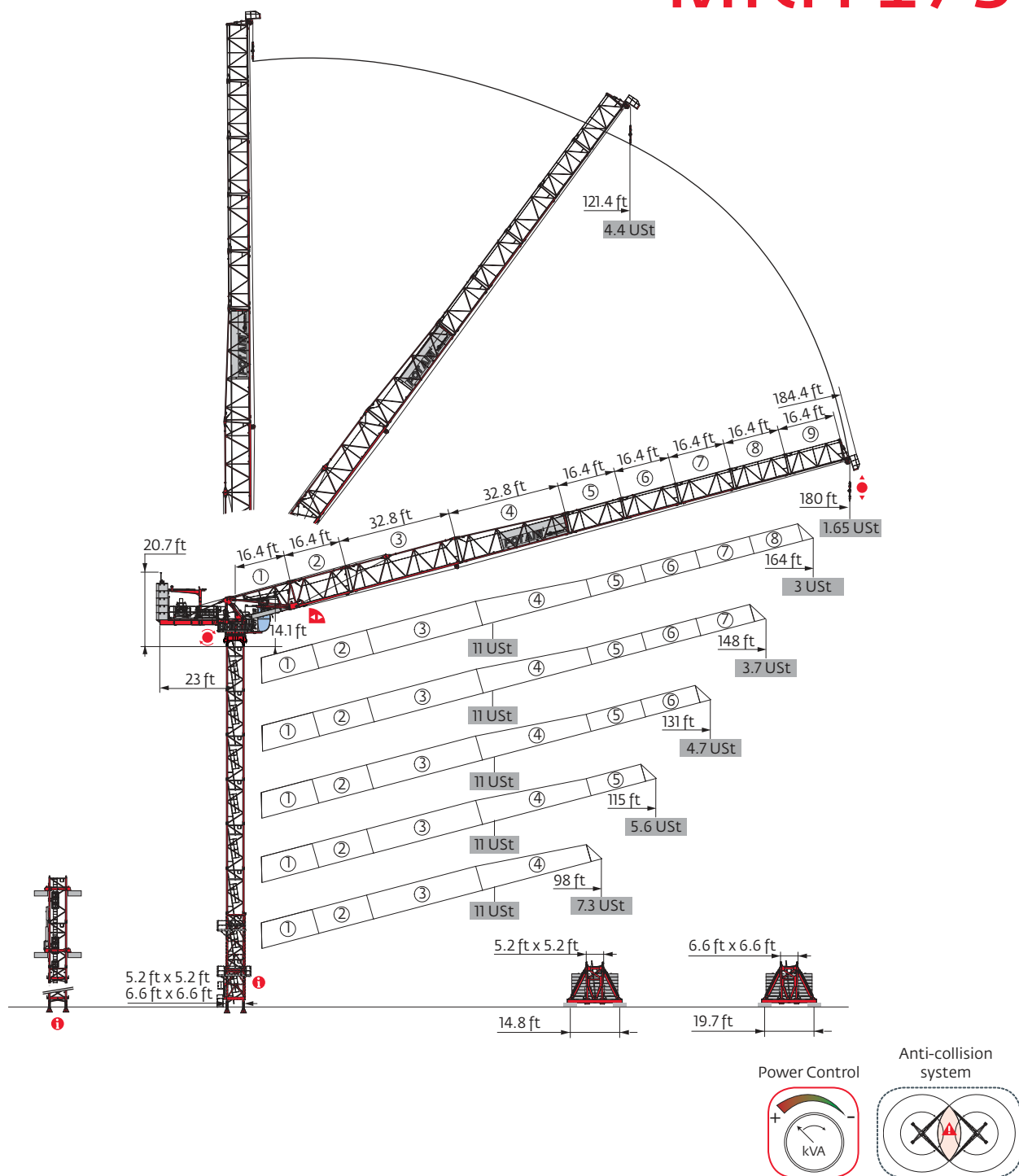


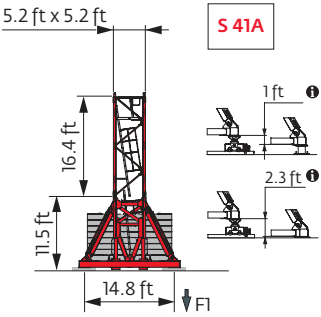
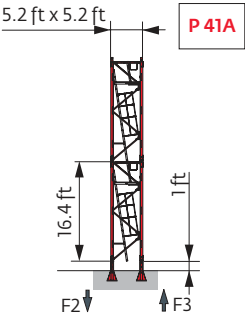
MRH 175



Mast - Reactions

5.2 ft - P 41A							
Height (ft)	98	115	131	148	164	180	
Height (ft)	102.4	96.8	80.4	80.4	64	69.6	
10.9 ft	2	0	0	0	0	2	
16.4 ft	4	5	4	4	3	2	
F2 (Ust)	151	151	146	149	148	149	
	114	118	104	121	107	131	
F3 (Ust)	113	112	108	105	105	111	
	76	80	66	83	70	94	

5.2 ft - S 41A -							
Height (ft)	98	115	131	148	164	180	
Height (ft)	112.9	107.3	90.9	90.9	74.5	68.9	
10.9 ft	2	0	0	0	0	1	
16.4 ft	4	5	4	4	3	2	
F1 (Ust)	96	96	94	98	95	93	
	86	87	81	88	81	83	

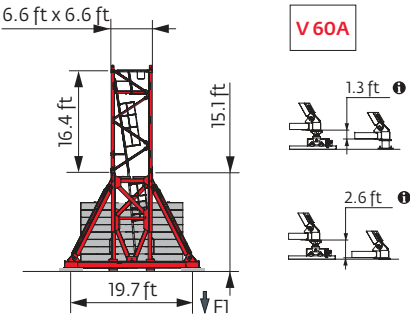
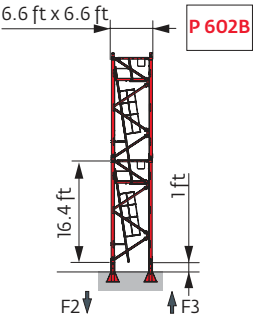


Motorized accesses: adapted mast compositions, base ballast and reactions.

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.

6.6 ft - P 602B							
W (ft)	98	115	131	148	164	180	
h (ft)	206.4	200.8	195.5	184.4	179.1	173.6	
10.9 ft	1	2	0	2	0	1	
16.4 ft	11	10	11	9	10	9	
F2 (Ust)	181	181	182	181	184	176	
	340	345	349	340	341	344	
F3 (Ust)	134	134	130	130	134	132	
	294	299	303	294	296	299	

6.6 ft - V 60A							
W (ft)	98	115	131	148	164	180	
h (ft)	176.5	171.3	160.1	154.9	143.7	138.5	
10.9 ft	0	1	0	1	0	1	
16.4 ft	9	8	8	7	7	6	
F1 (Ust)	108	110	109	110	109	104	
	134	137	132	135	129	130	



Anchorage



Base ballast

 (USt) /  5.2 ft - S 41A - 							
 (ft)	98	115	131	148	164	180	
	112.9	125.7					
	107.3	119.1	125.7				
 (ft)	90.9	105.8	112.4	119.1	125.7		
	74.5	92.6	99.2	105.8	112.4	119.1	
	68.9	92.6	99.2	-	-	-	125.7
	52.5	79.4	86	-	-	-	112.4

 (USt) /  6.6 ft - V 60A - 							
 (ft)	98	115	131	148	164	180	
	176.5	145.5					
	171.3	132.3	145.5				
	160.1	119.1	132.3	145.5			
	154.9	105.8	119.1	132.3	145.5		
	143.7	105.8	105.8	119.1	132.3	145.5	
 (ft)	138.5	92.6	105.8	105.8	119.1	132.3	145.5
	122.1	79.4	92.6	92.6	105.8	105.8	119.1
	105.6	66.1	79.4	79.4	92.6	92.6	105.8
	89.2	66.1	66.1	66.1	79.4	79.4	92.6
	72.8	52.9	52.9	66.1	66.1	79.4	79.4
	56.4	39.7	52.9	52.9	52.9	66.1	66.1
	40	39.7	39.7	39.7	52.9	52.9	52.9

Load curves



 (ft)		56	66	72	82	89	98	99.5	105	115	115.6	121	131	131.8	138	148	154	164	ft
	11 USt																		
164	15.1 → 73.6	114.3 → 116.8	11	11	11	9.4	8.4	7.1	-	6.4	5.5	-	5.1	4.4	-	4	3.5	3.1	2.7 USt
148	14.1 → 73	113.5 → 115.9	11	11	11	9.3	8.3	7	-	6.3	5.5	-	5.1	4.4	-	4	3.4	3	USt
131	13.5 → 73.2	114.1 → 116.5	11	11	11	9.4	8.4	7.1	-	6.4	5.5	-	5.1	4.4	4.4	USt			
115	12.5 → 73.6	115.6 → 115.6	11	11	11	9.5	8.5	7.2	-	6.5	5.6	5.5	USt						
98	11.5 → 73.7		11	11	11	9.5	8.5	7.3	7.2	USt									

 =  - 0.21 USt max.



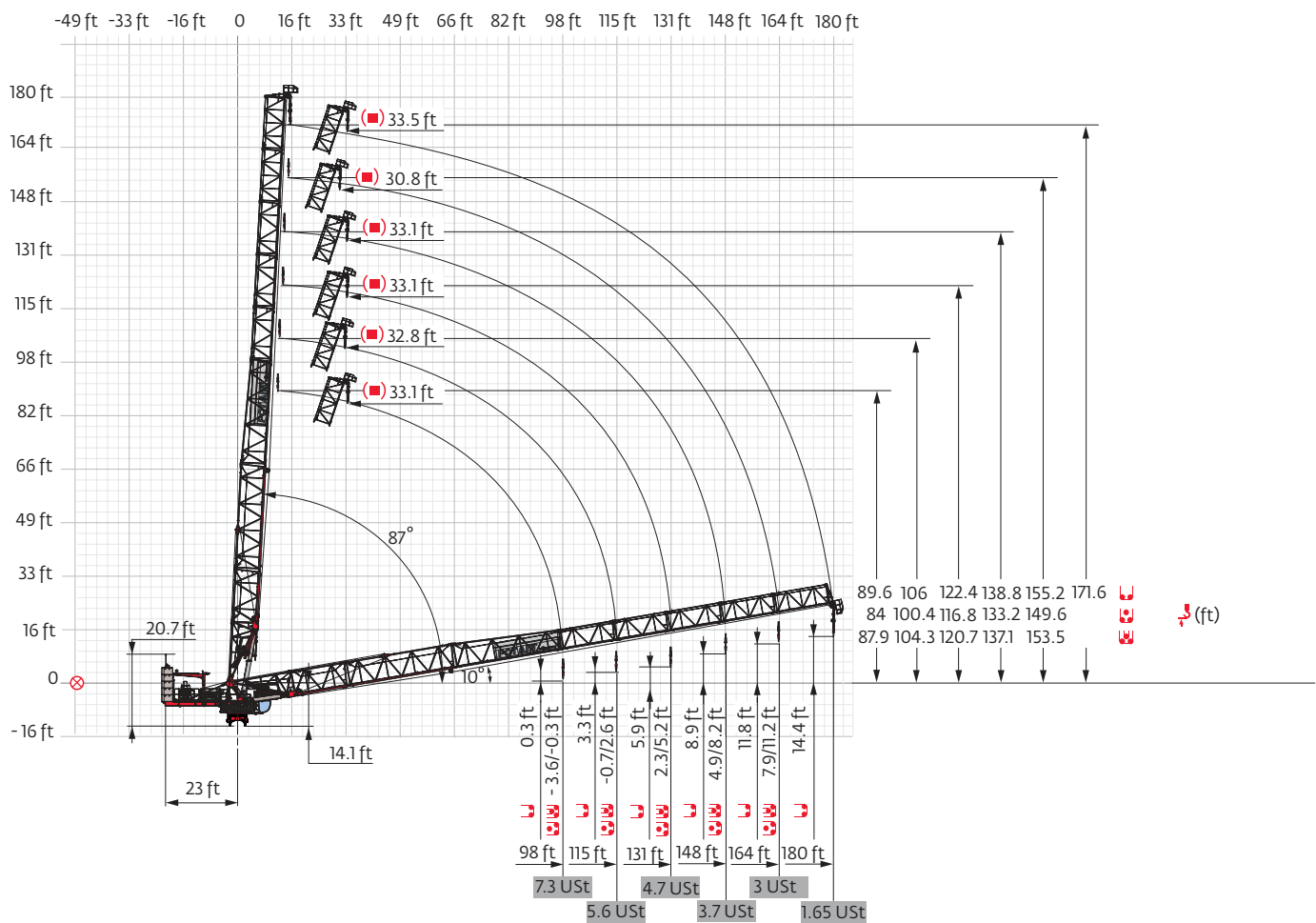
 (ft)		56	66	72	82	89	98	99.5	105	115	115.6	121	131	131.8	138	148	154	164	171	180	ft	
	 5.5 USt																					
180	16.1 → 121.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	3.8	-	3.4	2.9	2.6	2.2	1.95	1.65	USt	
164	15.1 → 120.1	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.4	4.7	-	4.3	3.7	3.4	3	USt			
148	14.1 → 119.3	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.3	4.7	-	4.2	3.7	USt					
131	13.5 → 120	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.4	4.7	4.7	USt							
115	12.5 → 115.6	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	USt										
98	11.5 → 99.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	USt													

Jib weight & counter-jib ballast

 (lb) (+/- 5%) ② ----> ⑨				
		  	10,472 lb	 (lb)
180 ft	16,403	-	5	52,360
164 ft	15,731	16,128	5	52,360
148 ft	14,948	15,345	5	52,360
131 ft	14,000	14,397	5	52,360
115 ft	12,821	13,218	5	52,360
98 ft	11,465	11,862	5	52,360

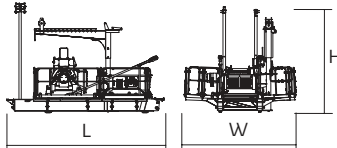
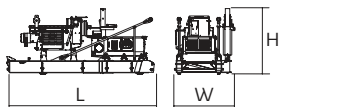
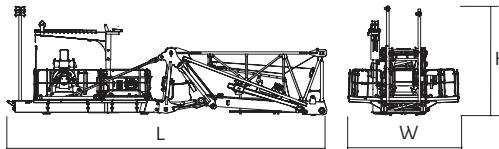
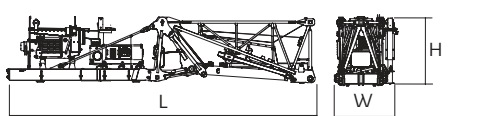
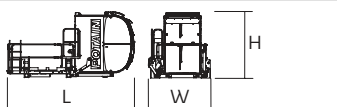
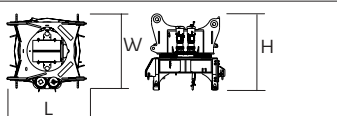
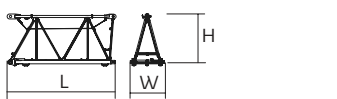
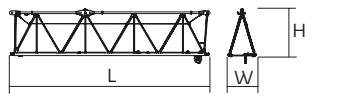
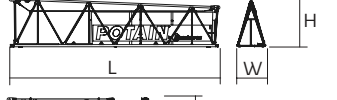
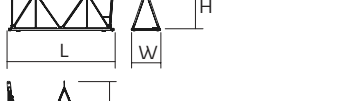
CCL - 10,472 lb

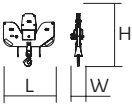
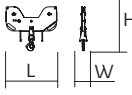
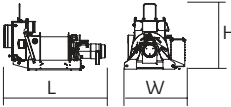
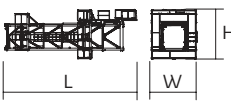
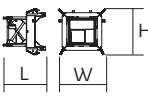
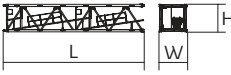
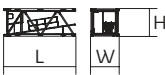
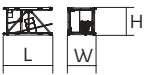
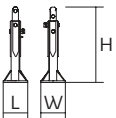
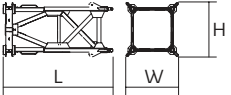
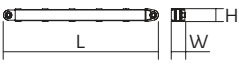
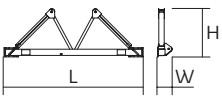
Luffing jib



Dimensions and weight

Slewing crane part:  180 ft -  50 LVF

Slewing crane part		L (ft)	W (ft)	H (ft)	lb (+/- 5%)	
Counter-jib		50 LVF 90 HPL™	19.7	13.9	13.1	15,399 17,780
		50 LVF 90 HPL™	18.2	7.4	10	14,099 16,480
Counter-jib + Jib foot		50 LVF 90 HPL™	40	13.9	13.1	32,187 34,568
		50 LVF 90 HPL™	39.4	7.4	8.4	30,887 33,268
Cab		V140 SR	15.9	7.8	8.2	3748
Towerhead		☐5.2 ft ☐6.6 ft	7.1 8.2	6.6 8.1	7.8 7.8	10,891 13,922
Jib section		①	21.6	7.1	8.4	16,788
		②	17.4	5.6	8.2	3,164
		③	33	4.7	8.2	4,068
		④	33.6	4.7	7.8	3,395
		⑤	17.1	4.7	6.4	1,356
		⑥	17	4.7	6.4	1,179
		⑦	16.9	4.7	6.4	948
		⑧	16.9	4.5	6.3	783
		⑨	16.9	4.5	6.3	672
			4	4.9	10	397

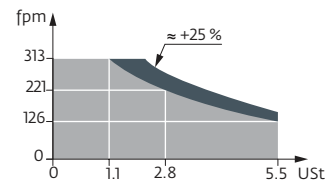
Pulley block			4.8	1.2	4.9	838
			4.8	0.7	4.1	441
Hoisting winch (+ rope)		50 LVF 90 HPL™	8.2 9.3	5 4.3	5.3 5.6	4,365 6,746
Crane tower			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
T61		□ 6.6 ft	35.5	13.6	14.7	21,385
K60/K40		□ 6.6/5.2 ft	7.3	8.2	8.1	5,754
K 447E KM 447E KM 449E K 649B KM 649E		□ 5.2 ft □ 5.2 ft □ 5.2 ft □ 6.6 ft □ 6.6 ft	33.5 33.5 33.5 33.6 33.8	5.3 5.3 5.3 6.8 6.7	5.3 5.3 5.3 6.7 6.7	7,474 7,088 8,448 11,663 10,692
K 447A KMT 447A K 449A KMT 449A KR 649A KRMT 649A K 649A KMT 649A		□ 5.2 ft □ 5.2 ft □ 5.2 ft □ 5.2 ft □ 6.6 ft □ 6.6 ft □ 6.6 ft □ 6.6 ft	17.1 17.1 17.1 17.1 17.2 17.2 17.2 17.2	5.5 5.5 5.5 5.5 6.9 6.9 6.8 6.8	5.3 5.3 5.3 5.3 6.8 6.8 6.7 6.7	4,079 3,847 4,916 4,696 7,165 6,724 6,184 5,666
K 447C K 649C KRMT 649C		□ 5.2 ft □ 6.6 ft □ 6.6 ft	11.3 11.7 11.7	5.5 6.8 6.9	5.3 6.7 6.8	2,998 4,376 5,401
Fixing angles		P 41A P 602B	1.2 2.1	1.2 2.1	3.7 4.2	293 650
Basic mast unit		S 41A V 60A	11.9 16.4	6.4 7.9	6.8 7.9	6,537 9,674
Struts		S 41A V 60A	10.4 14.8	0.9 1	0.8 1	489 919
Half-bearer		S 41A V 60A	16.7 22	2 2.3	5.8 7.6	2,524 3,519

Mechanisms

480 V - 60 Hz											hp	kW		
	50 LVF 25 Optima	fpm	126	166	221	313	66	85	115	157	50	37	1,827 ft	
		USt	5.5	4.1	2.8	1.1	11	8.3	5.5	2.5				
	90 HPL™ 25	fpm	212	276	389	705	112	144	210	353	90	66		3,136 ft
		USt	5.5	4.1	2.8	1.4	11	8.3	5.5	2.9				
	60 VVH 140	min	2								60	45		
	RVF 152 Optima +	rpm	0 → 0.8								2 x 5.5	2 x 4		
														

	IEC 60204-32		kVA
480 V (+6% -10%) 60 Hz		50 LVF: 107 kVA 90 HPL™: 139 → 103 kVA 	

50 LVF 25 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		Weathering position		Required power
	Options		Lorry 44 ft		Power Control Function: winch speeds adapted to the available power
	Reactions in service		Container High Cube 40 ft, and/or Flat Rack 20 ft		Consult us
	Reactions out of service		Hoisting		
	Jib weight		Luffing		
	Total ballast weight		Slewing		
	Jib articulation axis		Travelling		



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