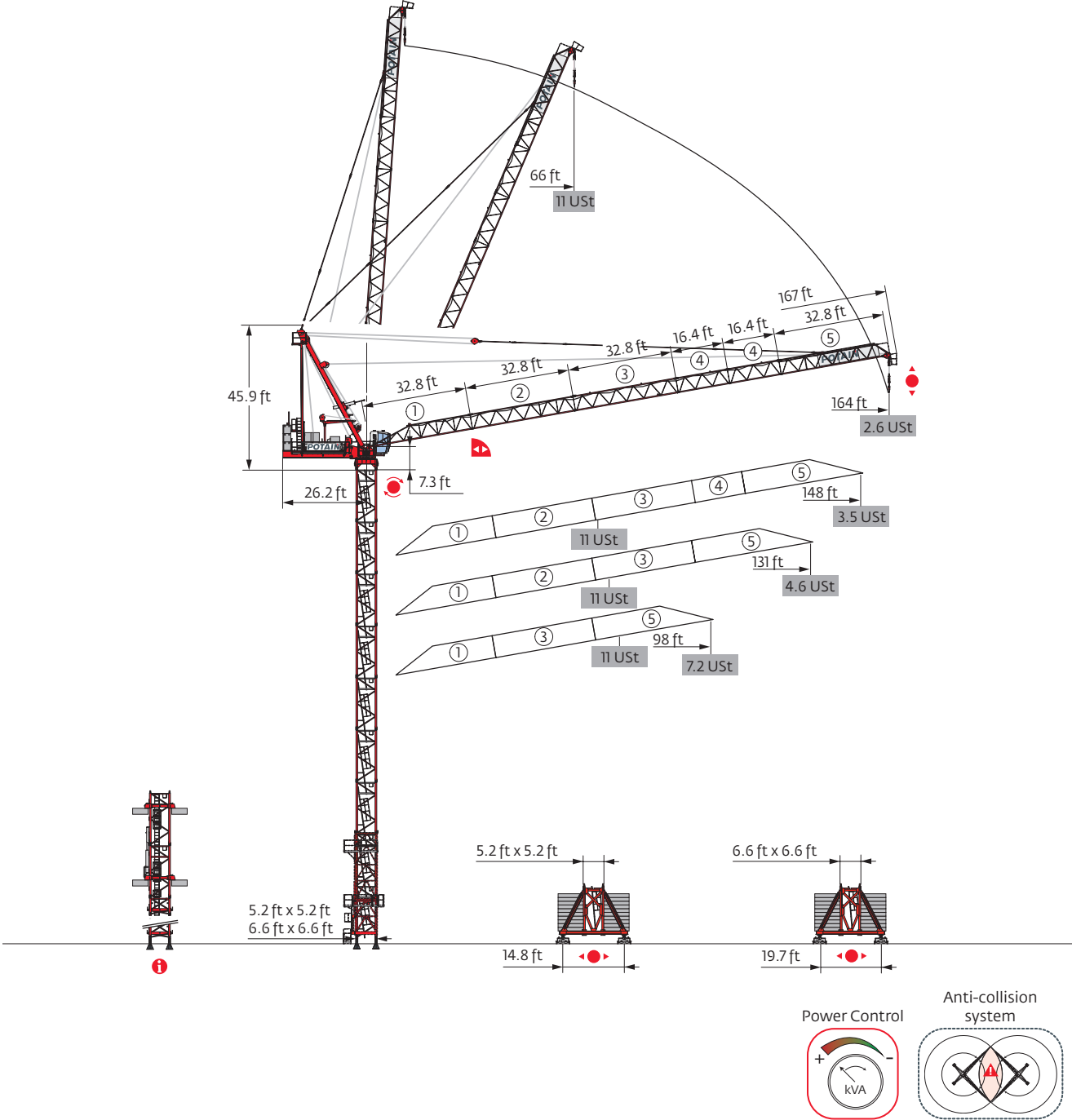
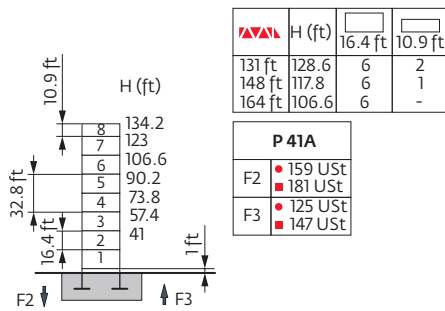


MR 160 C

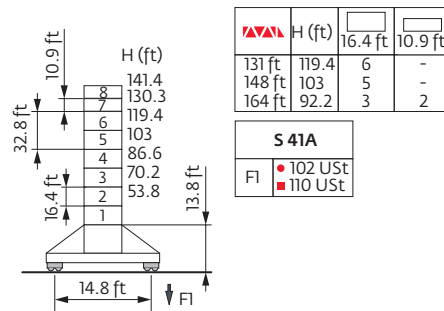


Mast - Reactions

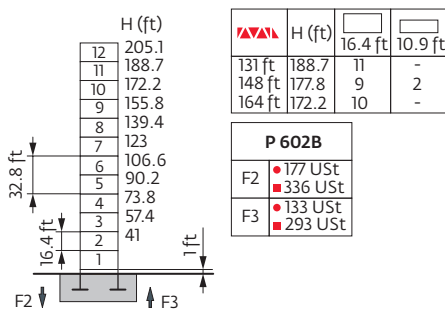
5.2 ft 98 ft



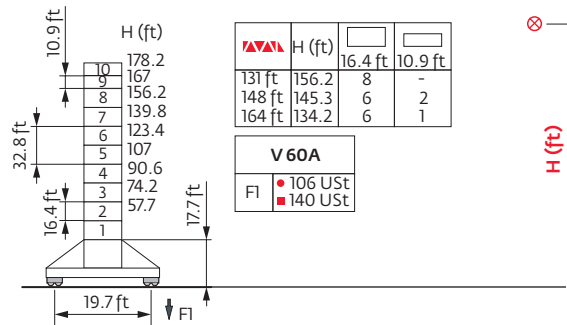
98 ft



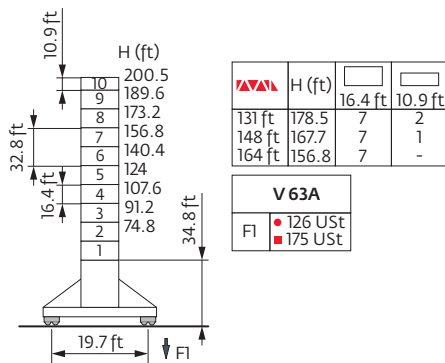
6.6 ft 98 ft



98 ft



98 ft



S 41A	H1 = H	H2 = H - 1 ft	H3 = H - 2.3 ft
V 60A	H1 = H	H2 = H - 1.3 ft	H3 = H - 2.6 ft
V 63A	H1 = H	H2 = H - 1.6 ft	H3 = H - 3 ft

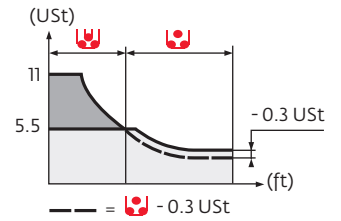
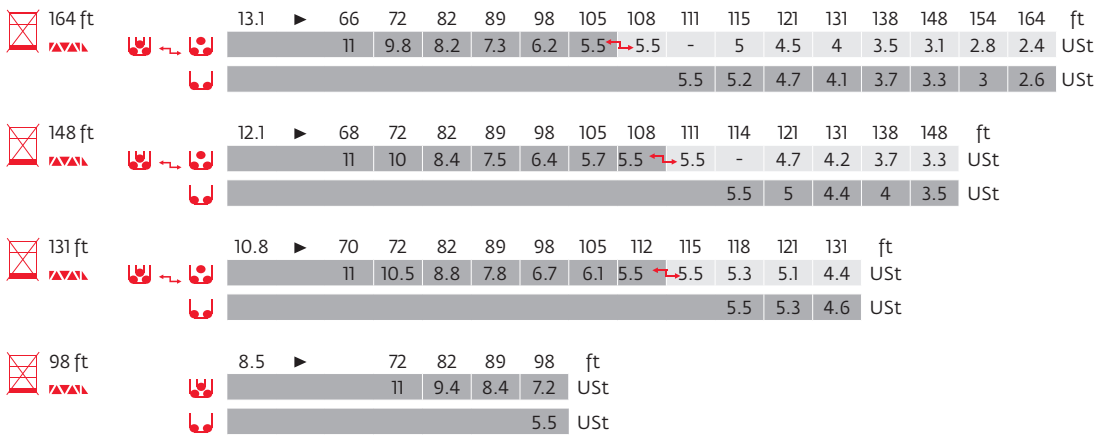
Note: When "ASCE" is noted in this data sheet it is referring to 115 mph Wind Zone, Exposure B, Design Wind Speed = 98 mph. See back cover for design wind speed calculations.

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

Anchorage



Load curves



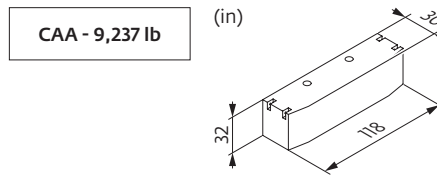
= - 0.1 USt

Base ballast

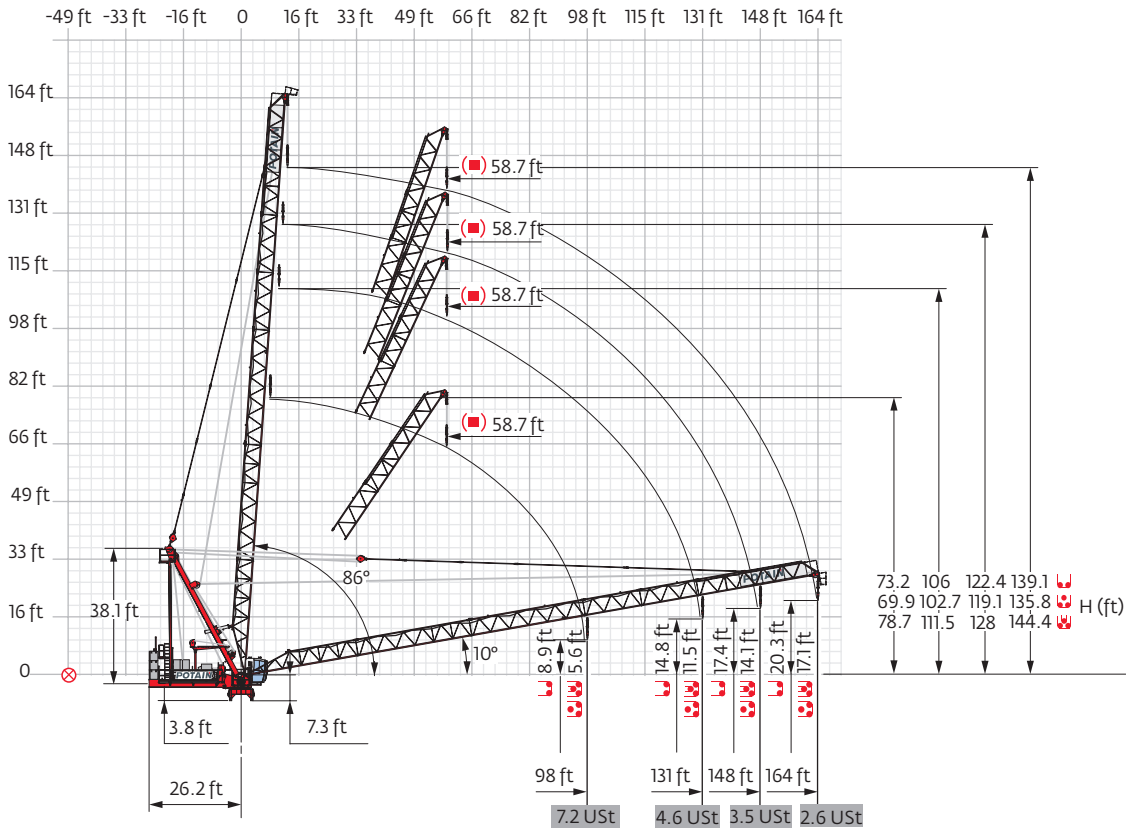
	5.2 ft		6.6 ft			
	S 41A		V 60A		V 63A	
	H (ft)	(USt)	H (ft)	(USt)	H (ft)	(USt)
98 ft	141.4	119.1	178.2	145.5	200.5	198.4
131 ft	119.4	125.7	156.2	145.5	178.5	198.4
148 ft	103	119.1	145.3	145.5	167.7	198.4
164 ft	92.2	119.1	134.2	145.5	156.8	198.4

Jib weight & counter-jib ballast

H (ft)	CAA - 9,237 lb		USt (lb)
	(lb) (+/- 5%)	(lb)	
98 ft	8,664	3	27,712
131 ft	10,715	3	27,712
148 ft	11,596	3	27,712
164 ft	12,566	3	27,712



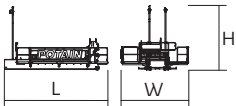
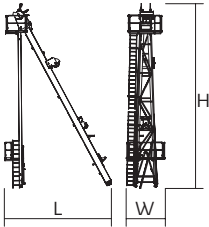
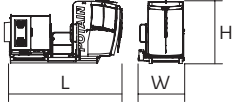
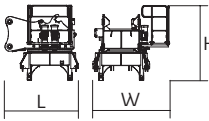
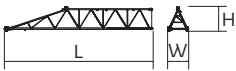
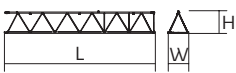


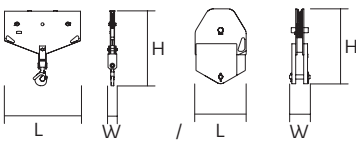
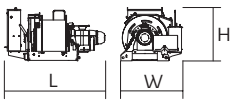
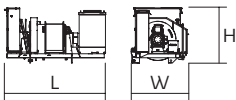
Luffing jib



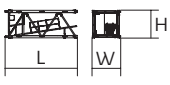

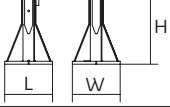
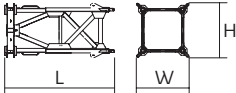
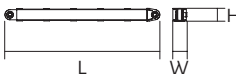
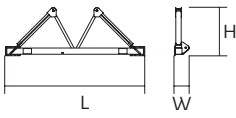


Dimensions and weight

Slewing crane part:  164 ft -  50 LVF



Slewing crane part		L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Counter-jib		24	15.1	14.4	12,875
Strut		22.7	8.3	39.4	9,193
Cab	 Ultra View	15.6	6.1	8.3	4,057
Towerhead	 \square 5.2 ft \square 6.6 ft	8.7 8.7	9.1 9.1	8.9 8.9	12,015 13,503
Jib section	 ①	33.5	4.8	5.2	2,194
Jib section	 ② ③	33.3 33.3	4.6 4.6	5 5	1,819 1,565
Jib section	 ④	16.8	4.6	5	739
Jib section	 ⑤	34.9	4.7	7	1,973
Pulley block		4.3 2	0.6 0.7	4.2 2.9	430 408
Hoisting winch (+ rope)	 50 LVF 90 HPL™	7.5 9.3	5.2 4.3	5.3 5.6	4,200 6,746
Luffing winch (+ rope)	 75 VVF	10.1	5.9	5.7	7,441

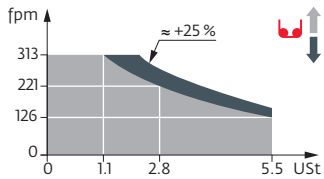
Crane tower	L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Telescopic cage T41 Telescopic cage T61 	5.2 ft 6.6 ft	35.6 35.5 12.2 13.6	13.5 14.7	15,653 21,385
K 447E KM 447E KM 449E K 649B KM 649E 	5.2 ft 5.2 ft 5.2 ft 6.6 ft 6.6 ft	33.5 33.5 33.5 33.6 33.8	5.3 5.3 5.3 6.8 6.7	7,474 7,088 8,444 11,663 10,692
K 447A KMT 447A K 449A KMT 449A K 649A KMT 649A KR 649A KRMT 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 5.3 6.8 6.8 6.8 6.8	4,079 3,847 4,916 4,696 6,184 5,666 7,165 6,724
K 447C K 649C KMT 649C KRMT 649C 	5.2 ft 6.6 ft 6.6 ft 6.6 ft	11.3 11.7 11.7 11.7	5.5 6.8 6.8 6.9	5.3 6.7 6.7 6.8
Fixing angles 	P 41A P 602B	1.2 2.1	1.2 2.1	3.7 4.2
Basic mast unit 	S 41A V 60A V 63A	11.9 16.4 32.9	6.4 7.9 7.9	6.8 7.9 7.9
Struts 	S 41A V 60A V 63A	10.4 14.8 14.8	0.9 1 1.1	0.8 1 1.1
Half-bearer 	S 41A V 60A V 63A	16.7 22 22	2 2.3 2.3	5.8 7.6 7.6

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	213	279	392	518	707	110	146	203	271	353	90	66	3,136 ft
		USt	5.5	4.1	2.8	1.4	0.4	11	8.3	5.5	2.8	1.3			
	75 VVF 30		2 min								75	55			
	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: 110 kVA 90 HPL™: 142 → 106 kVA

50 LVF 25 Optima



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.

- | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|  Standard equipment |  Jib weight |  Lorry 44 ft |  Hoisting |
|  Options |  Total ballast weight |  Container High Cube 40 ft, and/or Flat Rack 20 ft |  Luffing |
|  Reactions in service |  Jib articulation axis |  Required power |  Slewing |
|  Reactions out of service |  Weathervaning position |  Power Control Function: winch speeds adapted to the available power |  Travelling |
|  Load curves without inspection platform |  Consult us | | |
|  Load curves with inspection platform, deduct 0,1 USt | | | |

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

