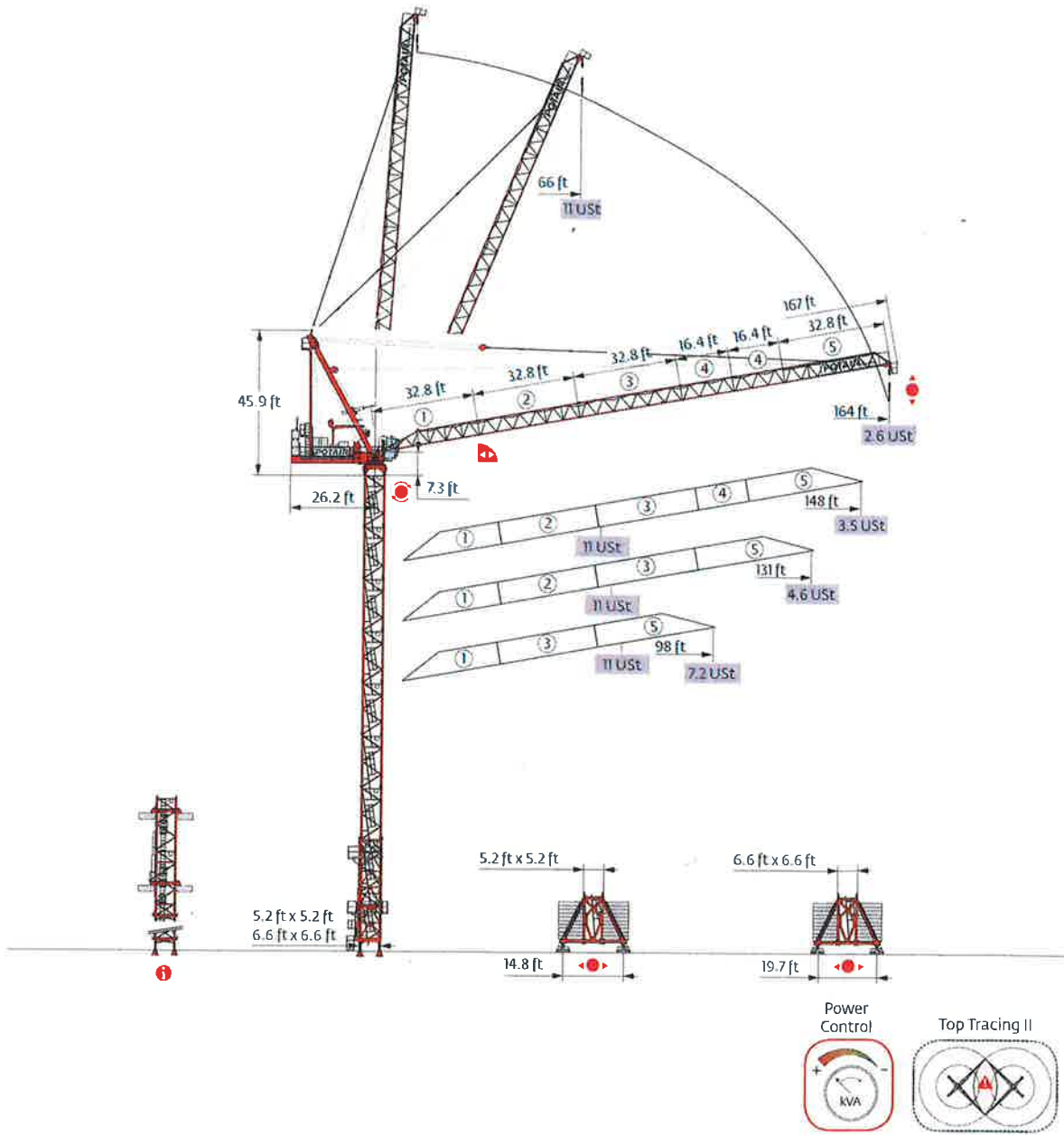
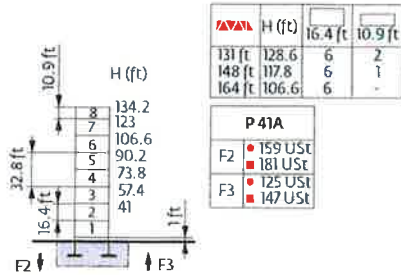


MR 160 C

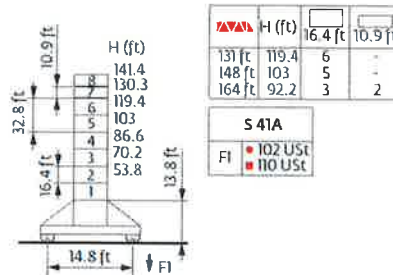


Mast - Reactions

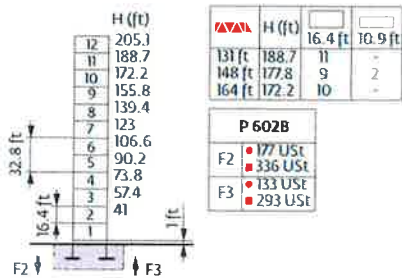
5.2 ft 98 ft



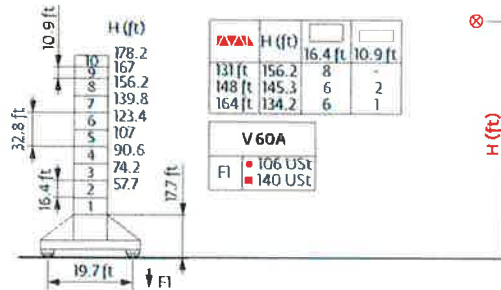
98 ft



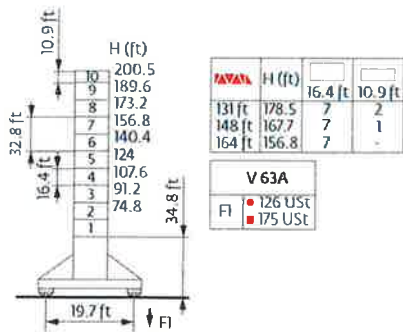
6.6 ft 98 ft



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.

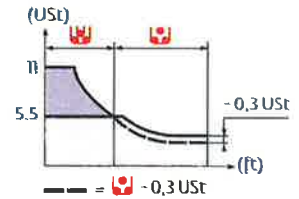
Anchorage

i

Load curves

164 ft	13.1	66	72	82	89	98	105	108	111	115	121	131	138	148	154	164	ft
	11	9.8	8.2	7.3	6.2	5.5	5.5	-	5	4.5	4	3.5	3.1	2.8	2.4	UST	
									5.5	5.2	4.7	4.1	3.7	3.3	3	2.6	UST
148 ft	12.1	68	72	82	89	98	105	108	111	114	121	131	138	148	ft		
	11	10	8.4	7.5	6.4	5.7	5.5	5.5	-	4.7	4.2	3.7	3.3	UST			
										5.5	5	4.4	4	3.5	UST		
131 ft	10.8	70	72	82	89	98	105	112	115	118	121	131	ft				
	11	10.5	8.8	7.8	6.7	6.1	5.5	5.5	5.3	5.1	4.4	UST					
									5.5	5.3	4.6	UST					
98 ft	8.5	72	82	89	98	ft											
	11	9.4	8.4	7.2	UST												
					5.5	UST											

 =  - 0.1 USt



5.3
4.6

10.6
9.2

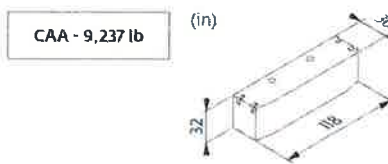
1.4

Base ballast

	5.2 ft		6.6 ft			
	S 41A		V 60A		V 63A	
	H (ft)	USt (lb)	H (ft)	USt (lb)	H (ft)	USt (lb)
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

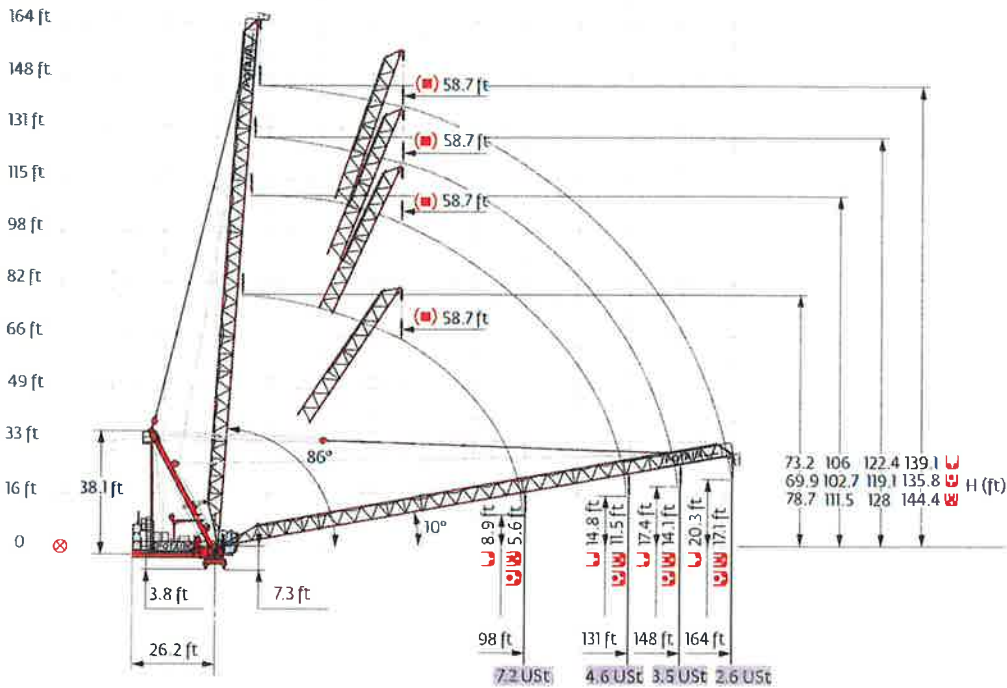
Jib weight & counter-jib ballast

H (ft)	W (lb)	9,237 lb	
		USt (lb)	USt (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

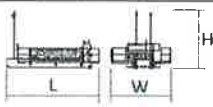
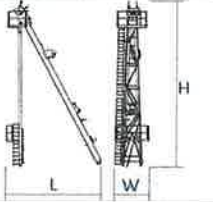
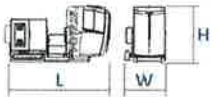
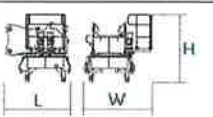
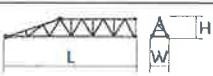
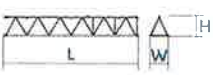
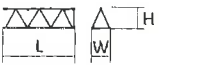
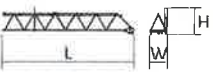

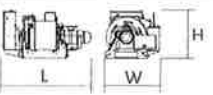
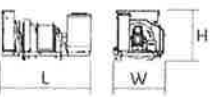
-49 ft -33 ft -16 ft 0 16 ft 33 ft 49 ft 66 ft 82 ft 98 ft 115 ft 131 ft 148 ft 164 ft

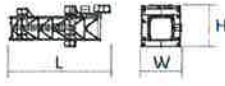


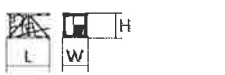
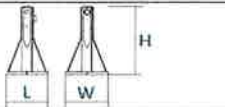

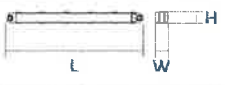
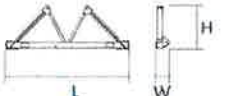


Dimensions and weight

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 100 LVF 90 HPL™	7.5 10.1 9.3	5.2 5.3 4.3	5.3 5.7 5.6	4,200 8,587 6,746
Luffing winch (+ rope)	 75 VVF	10.1	5.9	5.7	7,441

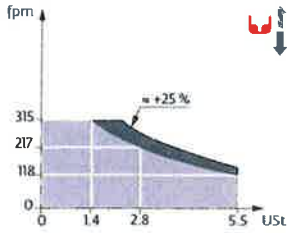
Crane tower			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Telescopic cage T41 Telescopic cage T61		□ 5.2 ft □ 6.6 ft	35.6 35.5	12.2 13.6	13.5 14.7	15,653 21,385
K 447B K 649B		□ 5.2 ft □ 6.6 ft	33.5 33.6	5.5 6.8	5.3 6.7	7,606 11,663
K 447A K 449A KR 649A K 649A		□ 5.2 ft □ 5.2 ft □ 6.6 ft □ 6.6 ft	17.1 17.1 17.2 17.2	5.5 5.5 6.9 6.8	5.3 5.3 6.8 6.7	4,079 4,916 7,165 6,184
K 447C K 649C		□ 5.2 ft □ 6.6 ft	11.3 11.7	5.5 6.8	5.3 6.7	2,998 4,376
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 V 63A	11.9 16.4 32.9	6.4 7.9 7.9	6.8 7.9 7.9	6,537 9,674 16,502
Struts		S 41A V 60A V 63A	10.4 14.8 14.8	0.9 1 1.1	0.8 1 1.1	489 919 1,135
Half-bearer		S 41A V 60A V 63A	16.7 22 22	2 2.3 2.3	5.8 7.6 7.6	2,524 3,519 4,079

Mechanisms

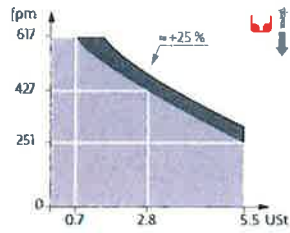
480 V - 60 Hz											hp	kW			
	50 LVF 25 Optima	fpm	118	151	217	315	59	75	108	157	50	37	1,827 ft		
		USt	5.5	4.1	2.8	1.4	11	8.3	5.5	2.8					
	100 LVF 25 Optima	fpm	251	323	427	541	617	126	164	217	285	308	100	75	4,167 ft
		USt	5.5	4.1	2.8	1.4	0.7	11	8.3	5.5	2.8	1.9			
90 HPL™ 25	fpm	212	276	389	705	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						
	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
480V (+6% -10%) 60 Hz	50 LVF : 110 kVA 100 LVF : 150 kVA 90 HPL™ : 142 → 106 kVA

50 LVF 25 Optima



100 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
- Options
- Reactions in service
- Reactions out of service
- Load curves without inspection platform
- Load curves with inspection platform, deduct 0.1 USt
- Jib weight
- Total ballast weight
- Jib articulation axis
- Weathervaning position
- Consult us
- Lorry 44 ft
- Container High Cube 40 ft, and/or Flat Rack 20 ft
- Required power
- Power Control Function: wind speeds adapted to the available power
- Hoisting
- Luffing
- Slewing
- Traveling

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MR 160 C



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