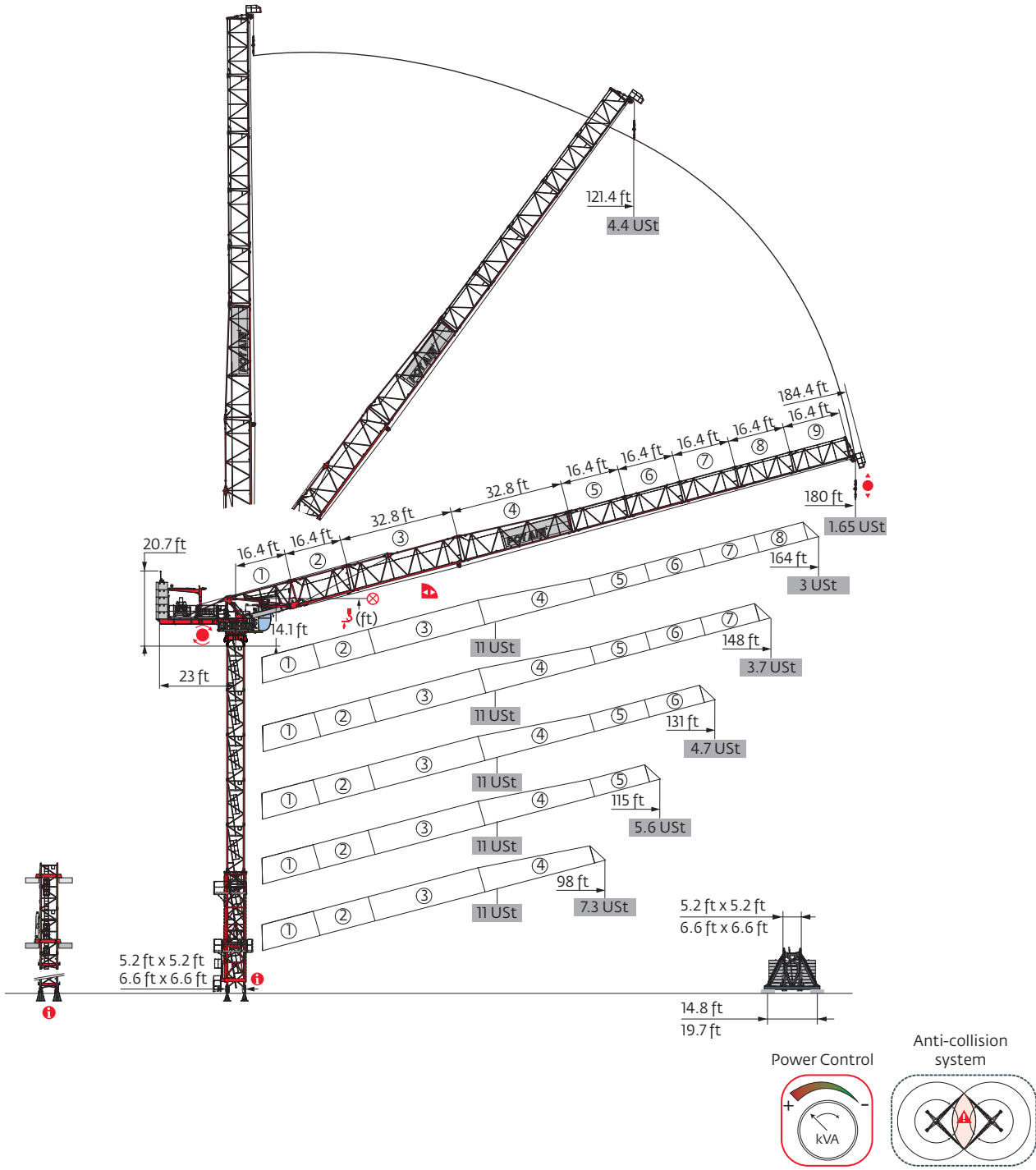


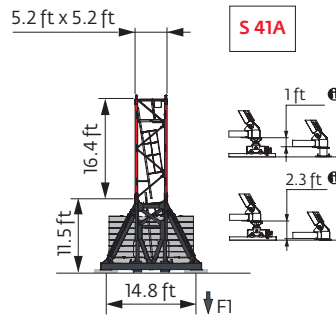
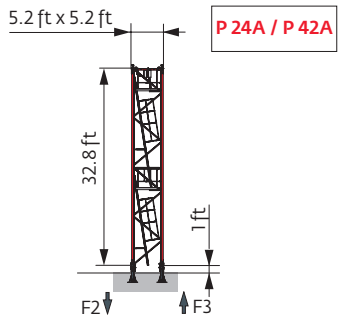
MRH 175



Mast - Reactions

5.2 ft - P 42A							
Height (ft)	98	115	131	148	164	180	
Height (ft)	129.6	129.6	113.2	113.2	96.8	102.4	
10.9 ft	0	0	0	0	0	2	
16.4 ft	5	5	4	4	3	2	
32.8 ft	1	1	1	1	1	1	
F2 (Ust)	● 164	166	161	168	166	163	
	■ 169	187	170	188	168	198	
F3 (Ust)	● 123	126	116	122	121	125	
	■ 129	147	130	148	129	159	

5.2 ft - S 41A							
Height (ft)	98	115	131	148	164	180	
Height (ft)	129.3	123.7	107.3	107.3	90.9	96.5	
10.9 ft	2	0	0	0	0	2	
16.4 ft	5	6	5	5	4	3	
F1 (Ust)	● 97	98	95	99	96	97	
	■ 93	94	86	94	86	98	



i Other mast compositions - Please consult us.

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

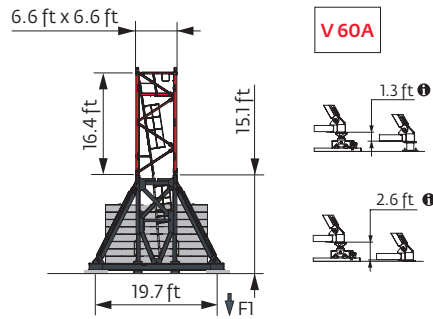
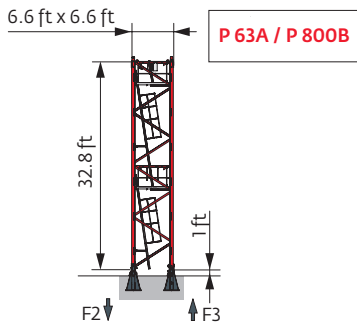
Note: When "ASCE" is noted in this data sheet it is referring to 115 mph Wind Zone, Exposure B, Design Wind Speed = 98 mph. See back cover for design wind speed calculations.

6.6 ft - P 63A

Span (ft)	98	115	131	148	164	180
Height (ft)	228	222.8	211.6	206.4	200.8	195.2
10.9 ft	0	1	0	1	2	0
16.4 ft	11	10	10	9	8	9
32.8 ft	1	1	1	1	1	1
F2 (Ust)	● 197	198	197	200	203	191
	■ 405	409	397	401	404	404
F3 (Ust)	● 143	139	138	141	145	139
	■ 351	356	344	348	351	351

6.6 ft - V 60A




Span (ft)	98	115	131	148	164	180
Height (ft)	182.1	176.5	165.7	160.1	149.3	143.7
10.9 ft	2	0	2	0	2	0
16.4 ft	8	9	7	8	6	7
F1 (Ust)	● 105	107	106	107	107	101
	■ 139	140	135	137	131	131








Anchorage





Base ballast

 (USt) /  5.2 ft - S 41A - 








 (ft)	98	115	131	148	164	180
129.3	119.1					
123.7	112.4	119.1				
107.3	105.8	105.8	112.4	119.1		
 (ft)	96.5	99.2	99.2	-	-	125.7
90.9	92.6	99.2	105.8	105.8	112.4	119.1
74.5	79.4	86	92.6	92.6	99.2	105.8
58.1	72.8	72.8	79.4	86	92.6	99.2
41.7	59.5	66.1	72.8	72.8	79.4	86

 (USt) /  6.6 ft - V 60A - 

 (ft)	98	115	131	148	164	180
182.1	145.5					
176.5	132.3	145.5				
165.7	119.1	132.3	145.5			
160.1	105.8	119.1	132.3	145.5		
149.3	79.4	92.6	105.8	132.3	145.5	
 (ft)	143.7	79.4	79.4	105.8	119.1	132.3
127.3	66.1	79.4	79.4	92.6	105.8	119.1
110.9	66.1	66.1	66.1	79.4	79.4	79.4
94.5	52.9	52.9	66.1	66.1	66.1	79.4
78.1	39.7	52.9	52.9	52.9	66.1	66.1
61.7	39.7	39.7	39.7	52.9	52.9	52.9
45.3	26.5	39.7	39.7	39.7	39.7	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																					
 5.5 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	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.

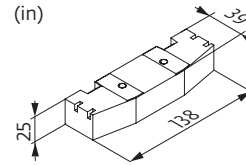


 (ft)	56	66	72	82	89	98	99.5	105	115	115.6	121	131	131.8	138	148	154	164	171	180	ft	
 5.5 USt																					
180	16.1 → 121.4		4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	3.8	-	3.4	2.9	2.6	2.2	1.95	1.65	USt
164	15.1 → 120.1		5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.4	4.7	-	4.3	3.7	3.4	3	USt		
148	14.1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

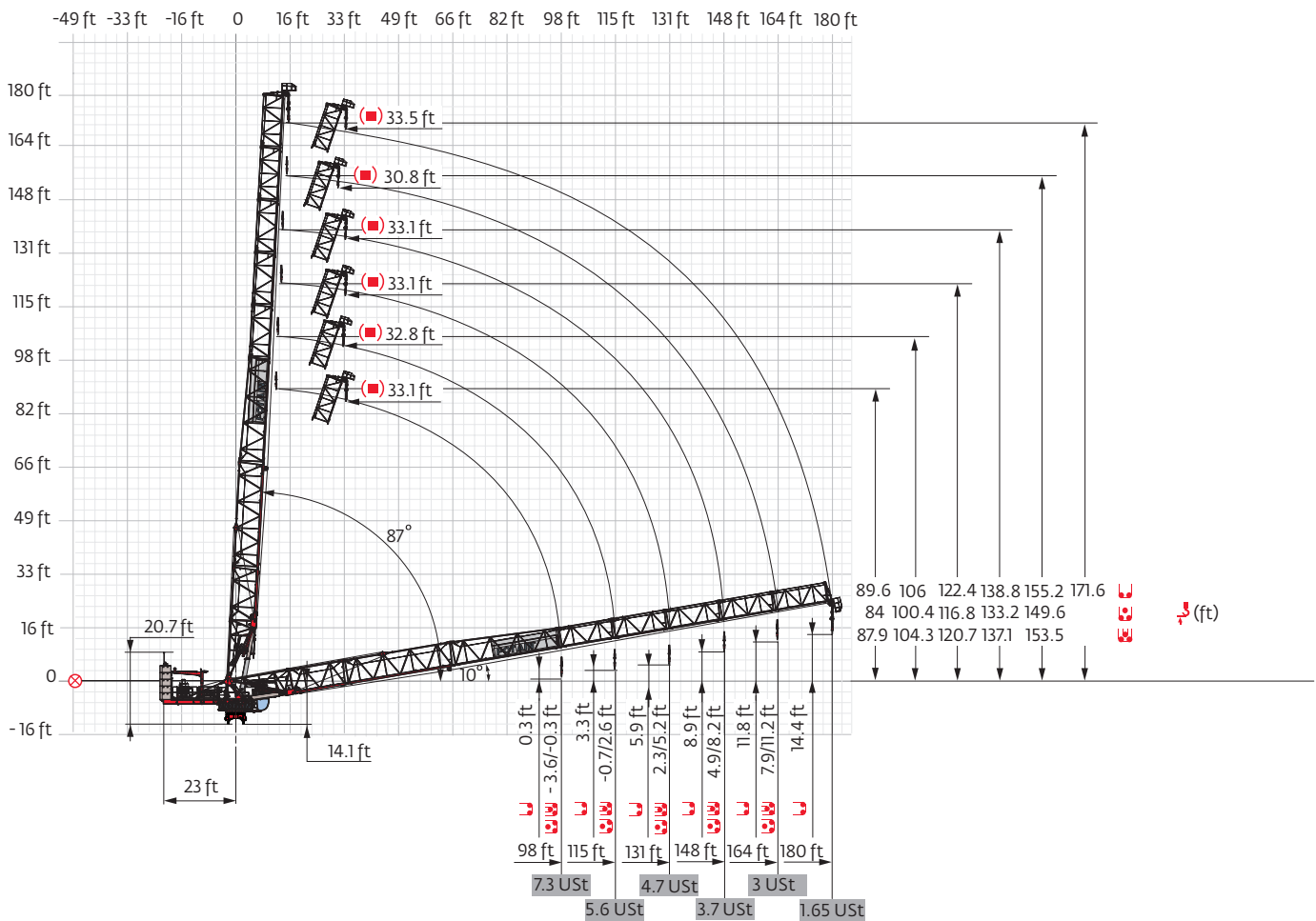
Jib weight & counter-jib ballast

Height (ft)	Jib Weight (lb) (+/- 5%)		Counter-jib Ballast (lb)	Total Weight (lb)
	②	⑨		
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



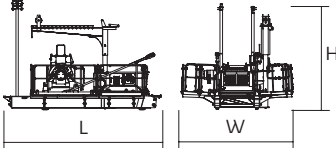
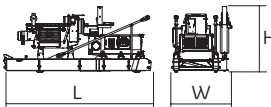
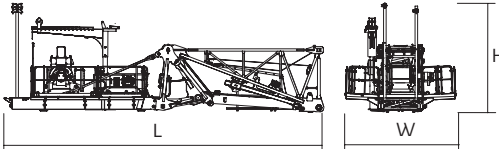
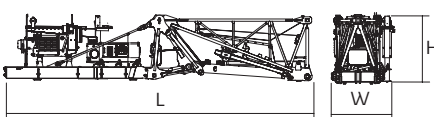

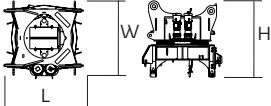
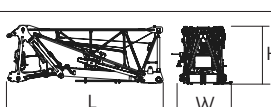
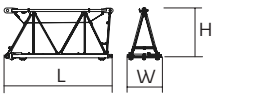
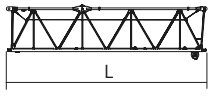
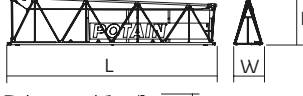
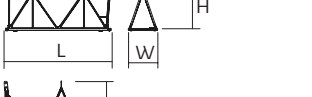
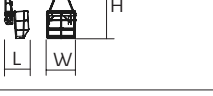

Luffing jib

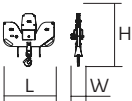
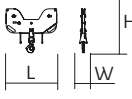


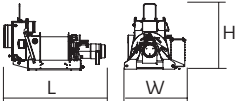

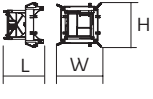
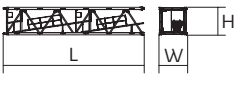

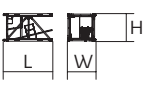
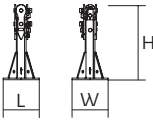
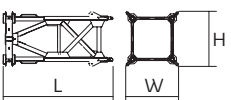
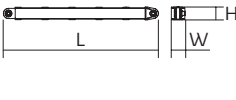
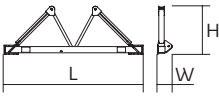


Dimensions and weight

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	3,748
Towerhead		□ 5.2 ft	7.1	6.6	7.8	10,891
		□ 6.6 ft	8.2	8.1	7.8	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

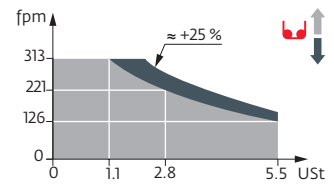
Pulley block				4.8	1.2	4.9	838
				4.8	0.7	4.1	441
Hoisting winch (+ rope)			50 LVF 90 HPL™	8.2 9.3	5 4.3	5.3 5.6	4,365 6,746
Crane tower				L (ft)	W (ft)	H (ft)	lb (+/- 5%)
T61			□ 6.6 ft	35.5	13.6	14.7	21,385
K60/K40-2			□ 6.6/5.2 ft	7.3	8.2	8.1	5,820
K 447E KM 447E KM 449E K 649B KM 649E KRM 6410B			□ 5.2 ft □ 5.2 ft □ 5.2 ft □ 6.6 ft □ 6.6 ft □ 6.6 ft	33.5 33.5 33.5 33.6 33.8 33.6	5.3 5.3 5.3 6.8 6.7 6.9	5.3 5.3 5.3 6.7 6.7 6.8	7,474 7,088 8,830 11,663 10,692 15,653
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 KMT 447C K 649C KMT 649C KRMT 649C			□ 5.2 ft □ 5.2 ft □ 6.6 ft □ 6.6 ft □ 6.6 ft	11.3 11.6 11.7 11.7 11.7	5.5 5.5 6.8 6.8 6.9	5.3 5.3 6.7 6.7 6.8	2,998 2,976 4,376 4,542 5,401
Fixing angles			P 24A / P 42A P 63A / P 800B	1.8 2.5	1.8 2.5	3.8 4.2	529 1,025
Basic mast unit			S 41A V 60A	11.9 16.4	6.4 7.9	6.8 7.9	7,132 10,494
Struts			S 41A V 60A	10.4 14.8	0.9 1	0.8 1	816 1,036
Half-bearer			S 41A V 60A	16.7 22	2 2.3	5.8 7.6	2,315 4,057

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

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

