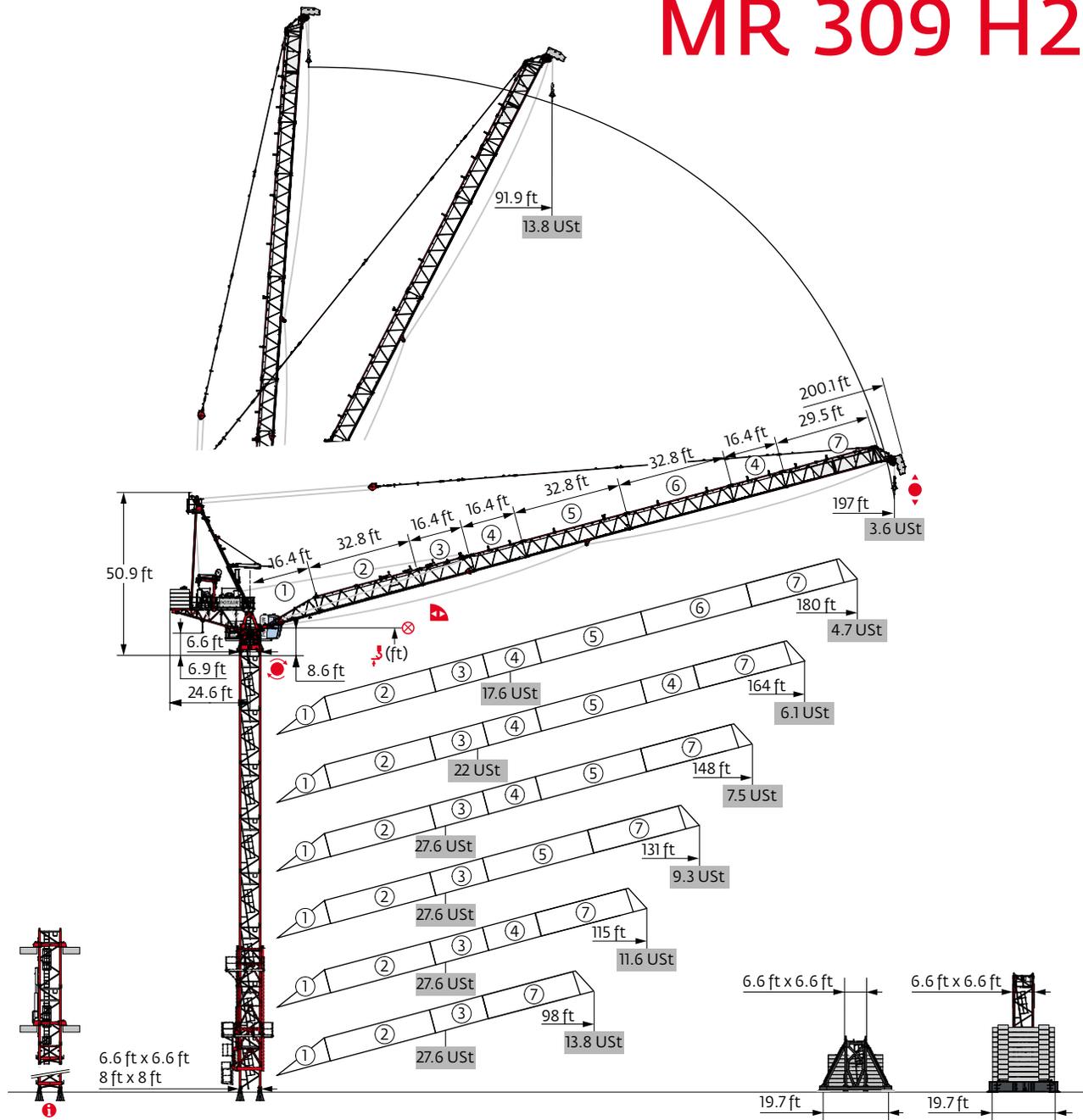


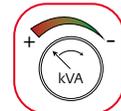
## MR 309 H25



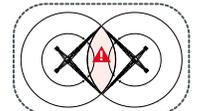
Potain Plus



Power Control



Anti-collision systems



Mast - Reactions

**6.6 ft - P 63A**

▲▼▲ (ft)	98	115	131	148	164	180	197
↕ (ft)	179.1	179.1	179.1	179.1	173.6	168	162.7
↕/P+ (ft)	179.1	179.1	179.1	173.6	168	168	162.7
10.9 ft	2	2	2	2	0	1	2
16.4 ft	7	7	7	7	8	7	6
32.8 ft	1	1	1	1	1	1	1
F2 (Ust)	● 239 ■ 280	241 297	243 315	251 334	246 335	244 339	245 339
F3 (Ust)	● 176 ■ 219	177 236	179 253	174 271	173 273	180 277	182 279

**6.6 ft - V 60A -**

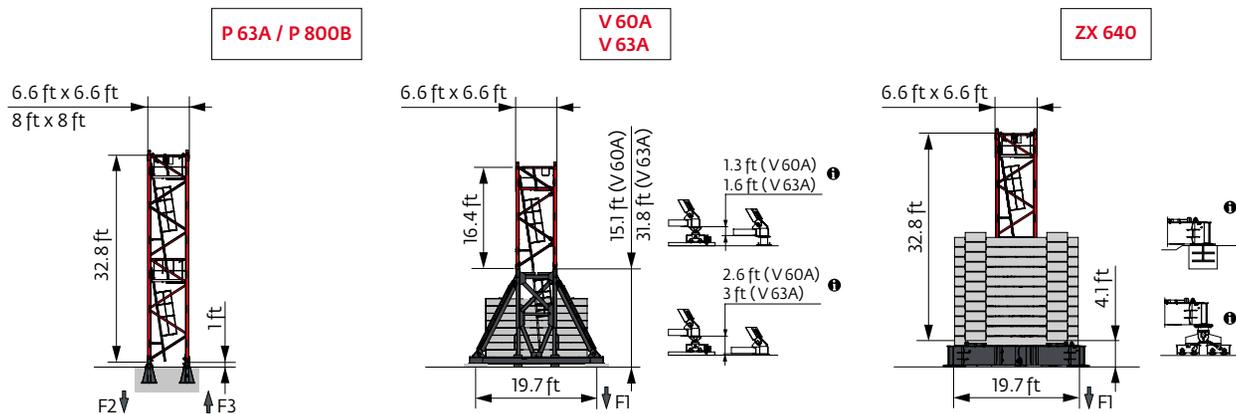
▲▼▲ (ft)	98	115	131	148	164	180	197
↕ (ft)	165.7	171.3	165.7	154.9	149.3	143.7	132.9
↕/P+ (ft)	165.7	165.7	165.7	154.9	149.3	143.7	132.9
10.9 ft	1	0	1	0	1	2	1
16.4 ft	8	9	8	8	7	6	6
F1 (Ust)	● 130 ■ 126	134 135	135 136	135 132	133 133	130 133	128 129

**6.6 ft - V 63A -**

▲▼▲ (ft)	98	115	131	148	164	180	197
↕ (ft)	165.7	165.7	171.3	165.7	165.7	165.7	160.4
↕/P+ (ft)	165.7	165.7	165.7	165.7	160.4	160.4	160.4
10.9 ft	1	1	0	1	1	1	2
16.4 ft	7	7	8	7	7	7	6
F1 (Ust)	● 131 ■ 128	133 132	141 146	142 148	145 158	143 168	146 170

**6.6 ft - ZX 640 -**

▲▼▲ (ft)	98	115	131	148	164	180	197
↕ (ft)	176.8	176.8	182.1	176.8	176.8	171.3	165.7
↕/P+ (ft)	176.8	176.8	176.8	176.8	171.3	171.3	165.7
10.9 ft	0	0	2	0	0	1	2
16.4 ft	8	8	7	8	8	7	6
32.8 ft	1	1	1	1	1	1	1
F1 (Ust)	● 134 ■ 136	137 141	143 160	145 161	150 171	147 173	148 175



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.

**i** Other mast compositions - Please consult us.

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

8 ft - P 800B							
Span (ft)	98	115	131	148	164	180	197
$r_1$ (ft)	234.9	229.3	229.3	223.8	218.5	212.9	207.4
$r_2/P_2$ (ft)	234.9	229.3	229.3	223.8	218.5	212.9	207.4
10.9 ft	2	0	0	1	2	0	1
16.4 ft	4	6	6	4	3	6	4
6.6 ft	1	1	1	1	1	1	1
16.4 ft	8	7	7	8	8	6	7
F2 (Ust)	● 236	233	239	244	240	233	234
	■ 386	382	398	405	408	402	405
F3 (Ust)	● 162	160	153	158	156	159	162
	■ 313	310	326	333	336	330	335

Anchorage



Base ballast

 (USt) /  6.6 ft - V 60A - 

Δ (ft)	98	115	131	148	164	180	197
171.3	145.5						
165.7	145.5	145.5	145.5				
154.9	132.3	132.3	145.5	145.5			
149.3	132.3	132.3	132.3	145.5	145.5		
143.7	119.1	132.3	132.3	132.3	145.5	145.5	
132.9	119.1	119.1	119.1	132.3	132.3	145.5	145.5
116.5	105.8	105.8	105.8	119.1	119.1	119.1	132.3
100.1	92.6	92.6	92.6	105.8	105.8	105.8	119.1
83.7	79.4	79.4	79.4	92.6	92.6	92.6	105.8

 (USt) /  6.6 ft - V 63A - 

Δ (ft)	98	115	131	148	164	180	197
171.3	158.7						
165.7	145.5	145.5	158.7	158.7	172	172	
160.4	145.5	145.5	145.5	158.7	158.7	172	185.2
144	132.3	132.3	132.3	145.5	145.5	158.7	158.7
127.6	119.1	119.1	119.1	132.3	132.3	132.3	145.5
111.2	105.8	105.8	105.8	105.8	119.1	119.1	132.3
94.8	92.6	92.6	92.6	105.8	105.8	105.8	119.1
78.4	79.4	79.4	79.4	92.6	92.6	92.6	105.8

 (USt) /  6.6 ft - ZX 640 - 

Δ (ft)	98	115	131	148	164	180	197
182.1	154.3						
176.8	143.3	143.3	154.3	154.3	176.4		
171.3	132.3	143.3	143.3	154.3	165.4	176.4	
165.7	132.3	132.3	143.3	143.3	154.3	165.4	187.4
149.3	121.3	121.3	132.3	132.3	143.3	143.3	154.3
132.9	110.2	110.2	110.2	121.3	121.3	132.3	143.3
116.5	88.2	99.2	99.2	110.2	110.2	110.2	121.3
100.1	77.2	88.2	88.2	88.2	99.2	99.2	110.2
83.7	66.1	77.2	77.2	77.2	88.2	88.2	99.2

Load curves



Δ (ft)	49	56	66	72	82	89	98	101.7	105	115	117.6	121	131	133.4	138	148	149.3	154	164	165.1	171	180	181	ft						
180	15.7 → 72.2	87.3 - 89.8					17.6	17.6	17.6	17.6	15	13.8	12.1	-	11.1	9.6	-	8.8	7.7	-	7.1	6.2	-	5.7	4.9	-	4.5	3.9	3.9	USt
164	15.1 → 62.3	90.4 - 92.8					22	22	20.8	18.5	15.7	14.2	12.7	-	11.6	10.1	-	9.3	8.1	-	7.5	6.6	-	6	5.3	5.2	USt			
148	14.4 → 52.5	91.9 - 94.4					27.6	25.8	21.3	19	16.1	14.5	13	-	11.9	10.4	-	9.5	8.4	-	7.7	6.8	6.6	USt						
131	13.5 → 52.5	92.8 - 95.4					27.6	25.8	21.4	19.1	16.2	14.7	13.2	-	12.1	10.6	-	9.8	8.6	8.4	USt									
115	12.1 → 52.5	95 - 97.7					27.6	25.9	21.6	19.4	16.6	15.1	13.7	-	12.5	11.1	10.7	USt												
98	10.2 → 52.5	97.4 - 100.3					27.6	25.9	21.9	19.7	17	15.5	13.8	13.5	USt															

$U = U_{St} - 0.65 U_{St} \max.$

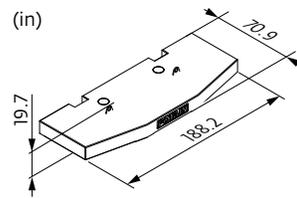


Δ (ft)	49	56	66	72	82	89	98	101.7	105	115	117.6	121	131	133.4	138	148	149.3	154	164	165.1	171	180	181	197	ft					
197	15.4 → 91.9	13.8					13.8	13.8	13.8	13.8	13.8	12.5	-	11.4	10	-	9.2	8	-	7.4	6.5	-	6	5.2	-	4.8	4.2	-	3.3	USt
180	15.7 → 88.6	13.8					13.8	13.8	13.8	13.8	13.8	12.1	-	11.1	9.8	-	9	8	-	7.4	6.6	-	6.1	5.4	-	5	4.4	4.4	USt	
164	15.1 → 91.9	13.8					13.8	13.8	13.8	13.8	13.8	12.6	-	11.6	10.3	-	9.5	8.5	-	7.9	7	-	6.5	5.8	5.7	USt				
148	14.4 → 93.5	13.8					13.8	13.8	13.8	13.8	13.8	12.9	-	11.9	10.6	-	9.8	8.8	-	8.1	7.3	7.2	USt							
131	13.5 → 95.1	13.8					13.8	13.8	13.8	13.8	13.8	13.2	-	12.3	10.9	-	10.2	9.1	8.9	USt										
115	12.1 → 96.8	13.8					13.8	13.8	13.8	13.8	13.8	13.6	-	12.7	11.5	11.2	USt													
98	10.2 → 101.7	13.8					13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	USt															

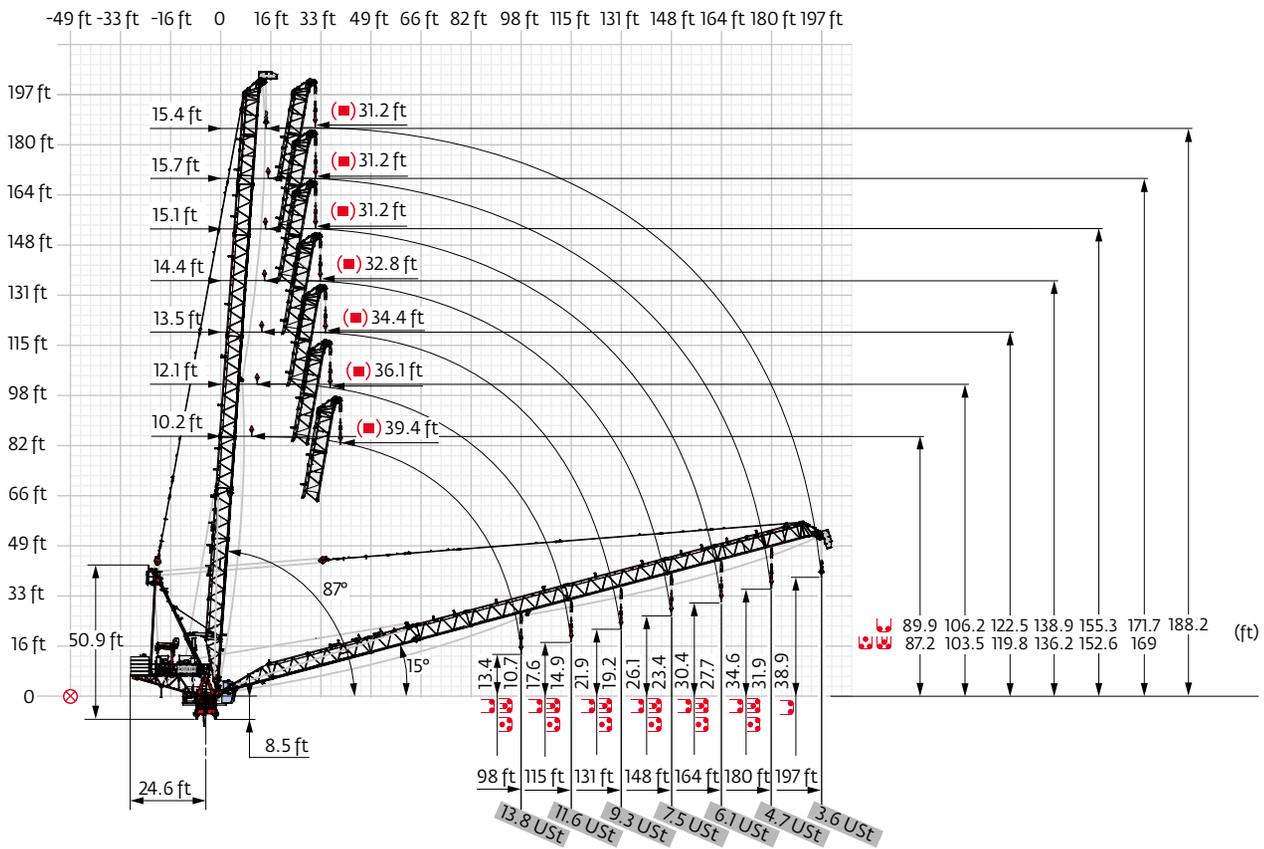
Jib weight & counter-jib ballast

	(lb) (+/- 5%)			(lb)
		/		
			15,873 lb	(lb)
197 ft	24,251 ()	14,771 / 9,480 ()	5	79,366
180 ft	24,251	14,771 / 9,480	5	79,366
164 ft	22,928	14,771 / 8,157	5	79,366
148 ft	21,385	14,771 / 6,614	5	79,366
131 ft	19,180	9,700 / 9,480	5	79,366
115 ft	17,857	9,700 / 8,157	5	79,366
98 ft	16,314	9,700 / 6,614	5	79,366

CDJ - 15,873 lb



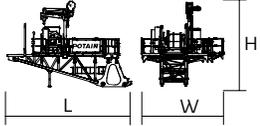
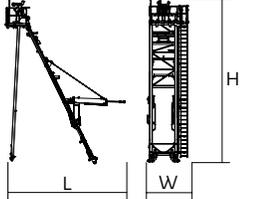
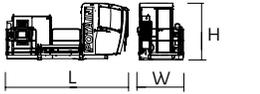
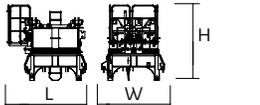
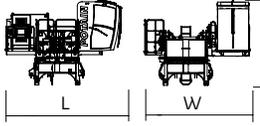
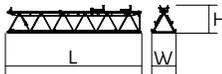
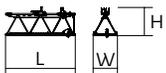
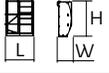
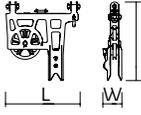
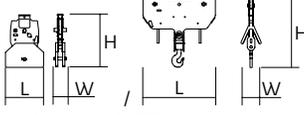
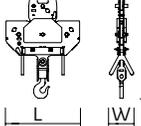
Luffing jib

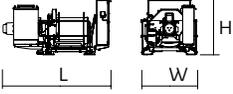
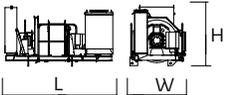
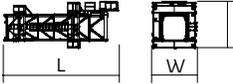
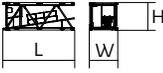
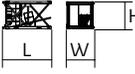
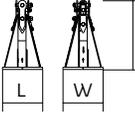
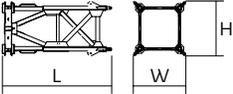
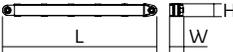
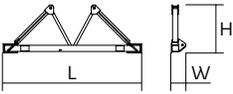
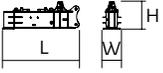
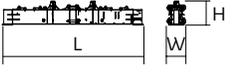


Dimensions and weight

Slewing crane part:  -  132 HPL™



Slewing crane part		L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Counter-jib	 100 VVF	28.3	16.5	19.3	24,482
Strut		23.6	9	37.8	14,440
Cab	 Ultra View	17.1	6.4	8.2	4,079
Towerhead	 6.6 ft	10.2	8.1	9.7	20,944
		17.1	15.7	12.5	25,023
Jib section	 ①	19.3	7.2	6.1	3,086
	 ② ⑤ ⑥ ⑦	33.4	6.2	6.9	3,086
		33.4	6	6.6	2,866
		33.4	6	6.6	2,756
		31	6	6.6	3,086
	 ③ ④	17	6	6.9	2,116
17		6	6.6	1,521	
 ④	5.9	5.1	7.4	959	
Jib nose inspection platform		4.7	2.5	6	187
Pulley block		4.1	1	4.4	342
		2.8	0.9	3.8	1,025
		5.3	1.8	5.6	1,135
	5.3	1.8	7.8	2,160	

Hoisting winch (+ rope)		132 HPL™ 180 HPL™ GH	11.6 15	6.1 6.3	6.2 6.5	11,100 19,103
Luffing winch (+ rope)		100 VVF	10.6	5.5	5.9	7,948
<b>Crane tower</b>			<b>L (ft)</b>	<b>W (ft)</b>	<b>H (ft)</b>	<b>lb (+/- 5%)</b>
T 61 T 851		□ 6.6 ft □ 8 ft	35.5 36.7	13.6 15.9	14.7 19	21,385 34,723
K80/KR60-2 Connecting mast		□ 8/6.6 ft	7.3	10.7	8.1	8,852
K 649B KMT 649E KRM 6410B KRM 849B		□ 6.6 ft □ 6.6 ft □ 6.6 ft □ 8 ft	33.6 33.8 33.6 33.6	6.8 6.7 6.9 8.4	6.7 6.7 6.8 8.3	11,663 10,692 15,653 17,196
K 649A KMT 649A KR 649A KRMT 649A K 849A KMT 849A KR 849A KRMT 849A		□ 6.6 ft □ 6.6 ft □ 6.6 ft □ 6.6 ft □ 8 ft □ 8 ft □ 8 ft □ 8 ft	17.2 17.2 17.2 17.2 17.2 17.2 17.2 17.2	6.8 6.8 6.9 6.9 8.3 8.4 8.3 8.4	6.7 6.7 6.8 6.8 8.2 8.3 8.2 8.3	6,184 5,666 7,165 6,724 7,496 6,945 9,458 9,017
KRMT 649C KRMT 849C		□ 6.6 ft □ 8 ft	11.7 11.7	6.9 8.4	6.8 8.3	5,401 7,066
Fixing angles		P 63A / P 800B	2.5	2.5	4.2	1,025
Basic mast unit		V 60A V 63A	16.4 32.9	7.9 7.9	7.9 7.9	10,494 16,887
Struts		V 60A V 63A	14.8 14.8	1 1.1	1 1.1	1,036 1,235
Half-bearer		V 60A V 63A	22 22	2.3 2.3	7.6 7.6	4,057 4,101
1/2 Cross girder		ZX 640	14.3	3.3	5.1	7,319
Cross girder		ZX 640	30	3.9	5.1	15,168

Mechanisms

480 V - 60 Hz													hp	kW	
	<b>132 HPL™ 63</b>	fpm	133	172	243	363	502	67	87	125	185	251	132	98	2,815 ft
		USt	13.8	10.4	6.9	3.4	1.1	27.6	20.7	13.8	6.9	2.9			
	<b>180 HPL™ 63 GH</b>	fpm	179	220	289	438	640	90	112	149	238	320	180	132	3,937 ft
		USt	13.8	10.4	6.9	3.4	0.9	27.6	20.7	13.8	6.9	3.3			
	<b>100 VVF 50</b>		2 min									100	75		
	<b>RVF 172 Optima+</b>	rpm	0 → 0.8									2 x 10	2 x 7.5		

480 V (+6% -10%) 60 Hz	132 HPL™ + 100 VVF: 205 → 112 kVA	
	180 HPL™ + 100 VVF: 243 → 131 kVA	

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
- Potain Plus function: Plus load curves
- Hook heights with Plus load curves
- Reactions in service
- Reactions out of service
- Jib weight
- Total ballast weight
- Jib articulation axis
- Weather vaning 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.

