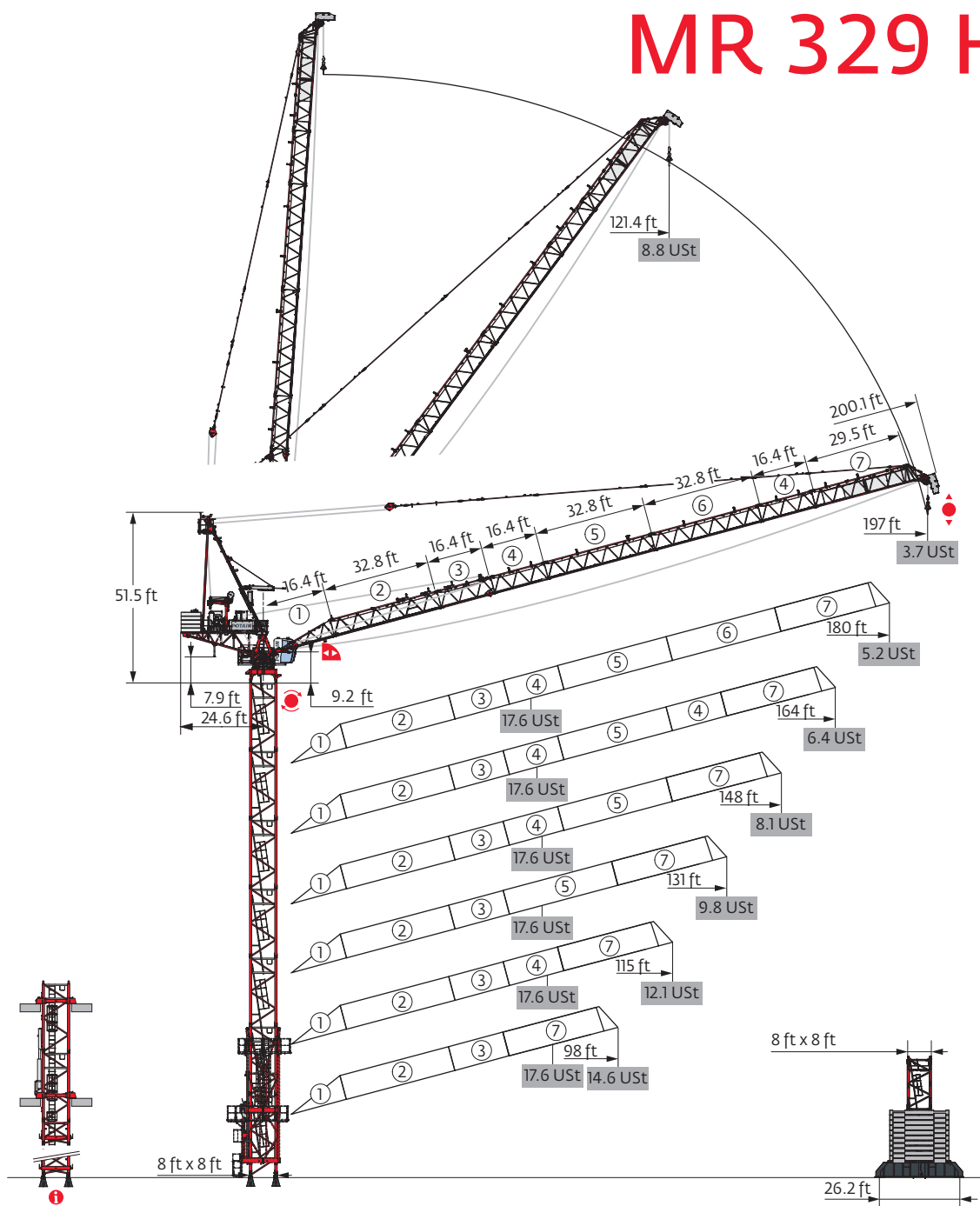


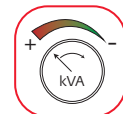
## MR 329 H16



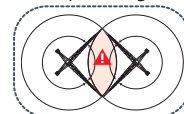
Potain Plus



Power Control



Top Tracing 3

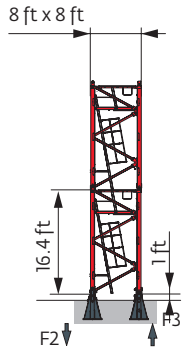


Mast - Reactions

8 ft - P 800B							
Height (ft)	98	115	131	148	164	180	197
↓ (ft)	232.6	227	221.5	216.2	210.6	205.1	199.8
↓/P+ (ft)	232.6	227	221.5	216.2	210.6	205.1	199.8
Lattice	10.9 ft	1	2	0	1	2	0
	16.4 ft	13	12	13	12	11	12
F2 (Ust)	● 236	235	232	231	230	228	229
	■ 405	408	401	404	407	401	403
F3 (Ust)	● 165	164	162	162	161	160	161
	■ 335	338	332	336	339	334	337

8 ft - P 854A							
Height (ft)	98	115	131	148	164	180	197
↓ (ft)	287.1	281.8	276.3	270.7	265.4	259.8	254.3
↓/P+ (ft)	287.1	281.8	276.3	270.7	265.4	259.8	254.3
Lattice	10.9 ft	0	1	2	0	1	2
	16.4 ft	17	16	15	16	15	14
F2 (Ust)	● 287	286	285	281	281	281	278
	■ 604	608	610	602	605	608	599
F3 (Ust)	● 203	202	201	199	191	191	199
	■ 521	524	527	520	524	527	521

P 63A / P 800B  
P 854A



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.

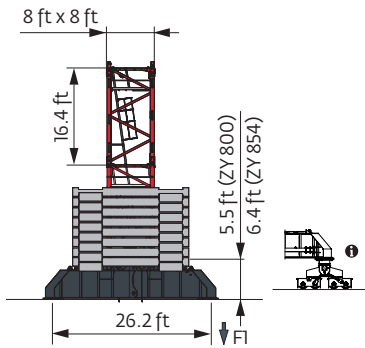
**8 ft - ZY 800 -**

Height (ft)	98	115	131	148	164	180	197
$\bar{z}$ (ft)	226.1	226.1	220.5	209.7	209.7	204.1	198.8
$\bar{z}/P_z$ (ft)	226.1	226.1	220.5	209.7	209.7	204.1	198.8
Height	10.9 ft	0	0	1	0	0	1
	16.4 ft	13	13	12	12	12	11
FI (Ust)	● 140	145	148	143	148	148	148
	■ 192	201	202	192	202	203	205

**8 ft - ZY 854 -**

Height (ft)	98	115	131	148	164	180	197
$\bar{z}$ (ft)	270.7	265.1	259.8	248.7	243.4	237.9	227
$\bar{z}/P_z$ (ft)	270.7	265.1	259.8	248.7	243.4	237.9	227
Height	10.9 ft	1	2	0	2	0	1
	16.4 ft	15	14	15	13	14	13
FI (Ust)	● 182	183	181	181	179	179	172
	■ 282	283	277	270	265	266	254

**ZY 800**  
**ZY 854**



Anchorage



Base ballast

(USt) / 8 ft - ZY 800 -

▲▼▲ (ft)	98	115	131	148	164	180	197
226.1	145.5	158.7					
220.5	145.5	158.7	172				
209.7	119.1	132.3	145.5	158.7	172		
204.1	105.8	119.1	132.3	145.5	158.7	172	
198.8	105.8	105.8	119.1	132.3	145.5	172	185.2
182.4	79.4	79.4	92.6	105.8	119.1	132.3	145.5
166	66.1	66.1	79.4	79.4	92.6	105.8	119.1
149.6	52.9	52.9	66.1	66.1	66.1	79.4	79.4
133.2	39.7	52.9	52.9	52.9	52.9	66.1	66.1
116.8	39.7	39.7	39.7	39.7	52.9	52.9	52.9
100.4	26.5	26.5	26.5	39.7	39.7	39.7	52.9
84	13.2	26.5	26.5	26.5	26.5	26.5	39.7

(USt) / 8 ft - ZY 854 -

▲▼▲ (ft)	98	115	131	148	164	180	197
270.7	238.1						
265.1	224.9	238.1					
259.8	211.6	224.9	238.1				
248.7	198.4	211.6	224.9	238.1			
243.4	172	185.2	211.6	224.9	238.1		
237.9	172	185.2	198.4	211.6	224.9	238.1	
227	145.5	158.7	172	185.2	198.4	211.6	238.1
210.6	105.8	119.1	132.3	145.5	172	185.2	198.4
194.2	79.4	92.6	105.8	119.1	132.3	145.5	158.7
177.8	66.1	66.1	79.4	79.4	92.6	105.8	132.3
161.4	52.9	52.9	66.1	66.1	66.1	79.4	92.6
145	39.7	52.9	52.9	52.9	52.9	66.1	66.1
128.6	39.7	39.7	39.7	39.7	52.9	52.9	52.9
112.2	26.5	26.5	26.5	26.5	39.7	39.7	39.7
95.8	13.2	13.2	26.5	26.5	26.5	26.5	39.7

Load curves



▲▼▲ (ft)	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	17.6 USt		8.8 USt																				
	15.7 → 72.2	123.5 - 127.2	17.6	17.6	15.3	13.9	12.2	-	11.2	9.8	-	9.1	8.4	-	7.8	6.9	-	6.4	5.7	-	5.3	4.7	4.6 USt
	15.7 → 72.2	123.5 - 127.2	17.6	17.6	15.3	13.9	12.2	-	11.2	9.8	-	9.1	8.4	-	7.8	7	-	6.5	5.8	-	5.4	4.8	4.8 USt P+
164	15.1 → 73.8		125.9 - 129.8																				
	15.1 → 73.8	125.9 - 129.8	17.6	17.6	15.7	14.3	12.5	-	11.5	10.1	-	9.3	8.7	-	8	7.2	-	6.6	5.9	5.8		USt	
	15.1 → 73.8	125.9 - 129.8	17.6	17.6	15.7	14.3	12.5	-	11.5	10.1	-	9.3	8.7	-	8	7.2	-	6.7	6	5.9		USt P+	
148	14.4 → 75.5		131.5 - 135.6																				
	14.4 → 75.5	131.5 - 135.6	17.6	17.6	16.1	14.8	13	-	12	10.7	-	9.9	8.8	-	8.6	7.7	7.6					USt	
	14.4 → 75.5	131.5 - 135.6	17.6	17.6	16.1	14.8	13	-	12	10.7	-	9.9	8.8	-	8.6	7.7	7.6					USt P+	
131	13.5 → 75.5																						
	13.5 → 75.5		17.6	17.6	16.3	15.2	13.6	-	12.7	11.5	-	10.8	9.8	9.6								USt	
	13.5 → 76.1		17.6	17.6	16.3	15.2	13.6	-	12.7	11.5	-	10.8	9.8	9.6								USt P+	
115	12.1 → 77.1																						
	12.1 → 77.1		17.6	17.6	16.7	15.6	14.2	-	13.3	12.1	11.8											USt	
	12.1 → 77.5		17.6	17.6	16.7	15.6	14.2	-	13.3	12.1	11.8											USt P+	
98	10.2 → 78.7																						
	10.2 → 78.7		17.6	17.6	17.1	16	14.6	14.1														USt	
	10.2 → 79.6		17.6	17.6	17.1	16	14.6	14.1														USt P+	

= - 0.44 USt max.



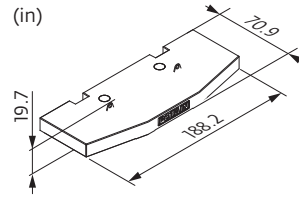
▲▼▲ (ft)	66	72	82	89	98	101.7	105	115	117.6	121	131	133.4	138	148	149.3	154	164	165.1	171	180	181	197	ft	
197	8.8 USt																							
	15.4 → 121.4		8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	-	8.8	7.8	-	7.3	6.5	-	6	5.3	-	4.9	4.4	-	3.5 USt
	15.4 → 121.4		8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	-	8.8	7.8	-	7.3	6.5	-	6.1	5.4	-	5.1	4.5	-	3.7 USt P+
180	15.7 → 126.3																							
	15.7 → 126.3		8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	-	8.8	8.4	-	7.8	7.1	-	6.7	6	-	5.6	5.1	5.1 USt	
	15.7 → 126.3		8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	-	8.8	8.4	-	7.8	7.1	-	6.7	6.1	-	5.7	5.2	5.2 USt P+	
164	15.1 → 129.6																							
	15.1 → 129.6		8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	-	8.8	8.7	-	8.1	7.4	-	7	6.4	6.3		USt		
	15.1 → 129.6		8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	-	8.8	8.7	-	8.1	7.4	-	7	6.4	6.4		USt P+		
148	14.4 → 134.5																							
	14.4 → 134.5		8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	-	8.8	8.8	-	8.6	8.1	8					USt		
	14.4 → 135.2		8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	-	8.8	8.8	-	8.6	8.1	8					USt P+		
131	13.5 → 133.4																							
	13.5 → 133.4		8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	-	8.8	8.8	8.8								USt		
	13.5 → 133.4		8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	-	8.8	8.8	8.8								USt P+		
115	12.1 → 117.6																							
	12.1 → 117.6		8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	8.8											USt		
	12.1 → 117.6		8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	8.8											USt P+		
98	10.2 → 101.7																							
	10.2 → 101.7		8.8	8.8	8.8	8.8	8.8	8.8														USt		
	10.2 → 101.7		8.8	8.8	8.8	8.8	8.8	8.8														USt P+		



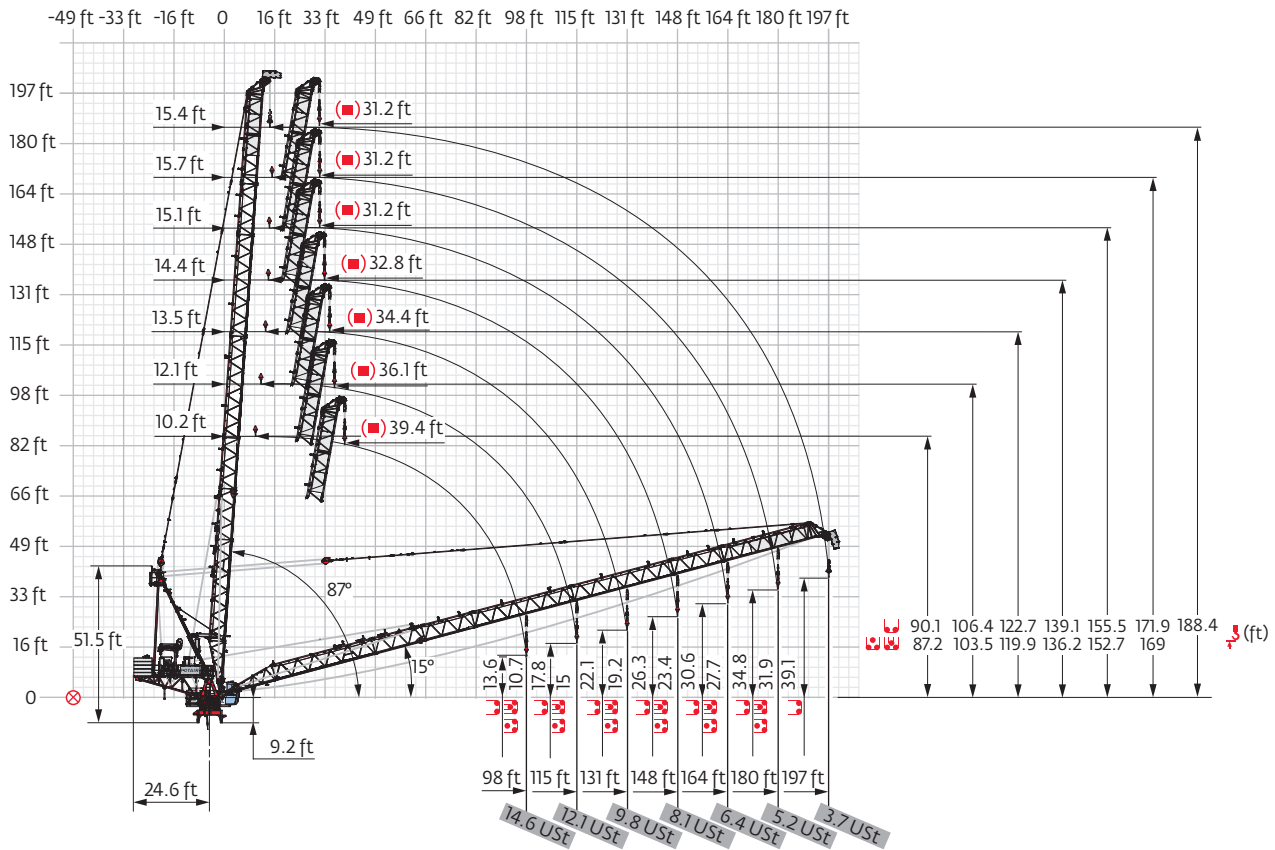
Jib weight & counter-jib ballast

Height (ft)	Weight (lb)		Units	Total Weight (lb)
	W <sub>1</sub>	W <sub>2</sub>		
197 ft	24,030	14,771 / 9,259	5	79,366
180 ft	23,810	14,771 / 9,039	5	79,366
164 ft	22,487	14,771 / 7,716	5	79,366
148 ft	20,944	14,771 / 6,173	5	79,366
131 ft	18,739	9,700 / 9,039	5	79,366
115 ft	17,416	9,700 / 7,716	5	79,366
98 ft	15,873	9,700 / 6,173	5	79,366

CDJ - 15,873 lb



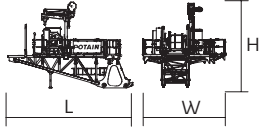
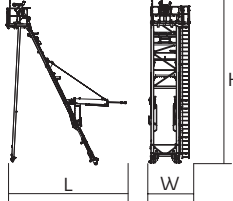
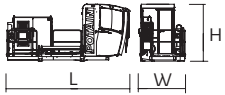
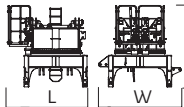
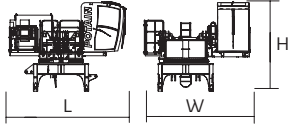

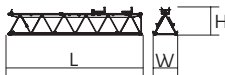

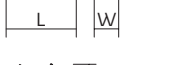
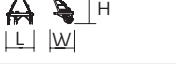
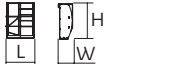
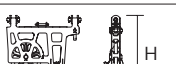
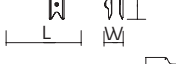
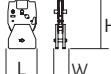
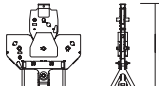
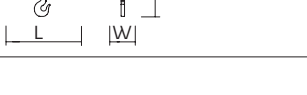

Luffing jib

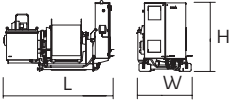
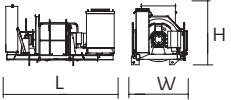

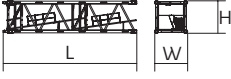


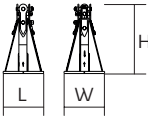
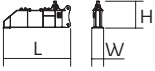
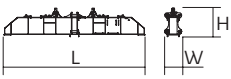


Dimensions and weight

Slewing crane part:  197 ft -  90 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	 8 ft	10.3	10.6	10.5	23,810
		17.1	15.7	13.2	27,889
Jib section	 ①	19.3	7.2	6.1	3,086
	 ②	33.4	6.2	6.9	3,086
	 ⑤	33.4	6	6.6	2,866
	 ⑥	33.4	6	6.6	2,756
	 ⑦	31	6	6.6	3,086
	 ③	17	6	6.9	2,116
	 ④	17	6	6.6	1,521
		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 5.3	0.9 1.5	3.8 5.6	805 915
		5.3	1.5	7.8	1,720

Hoisting winch (+ rope)		90 HPL™ 132 HPL™	8.4 11.1	4.3 5.7	5.6 6.3	5,875 11,552
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 851		□ 8 ft	36.7	15.9	19	34,723
KRM 849B K 85/KR 84B2 KM 850.10B KM 850.14B		□ 8 ft	33.6 33.6 33.9 33.9	8.4 8.3 8.3 8.3	8.3 8.2 8.2 8.2	17,196 21,242 22,201 24,670
K 849A KMT 849A KR 849A KRMT 849A K 85/KR 84A2 KMT 850.10A KMT 850.14A		□ 8 ft	17.2 17.2 17.2 17.2 17.2 17.5 17.5	8.3 8.4 8.3 8.4 8.3 8.3 8.3	8.2 8.3 8.2 8.3 8.2 8.2 8.2	7,496 6,945 9,458 9,017 12,236 12,015 13,206
KRMT 849C KMT 850.10C		□ 8 ft	11.7 12	8.4 8.3	8.3 8.2	7,066 9,326
Fixing angles		P 63A / P 800B P 854A	2.5 3	2.5 3	4.2 4.9	1,025 2,072
1/2 Cross girder		ZY 800 ZY 854	18.6 18.7	3.2 3.2	6.3 7.4	10,406 14,176
Cross girder		ZY 800 ZY 854	39.2 39	4.6 4.7	6.3 7.4	22,212 30,865

Mechanisms

480 V - 60 Hz													hp	kW	
	90 HPL™ 40	fpm	133	174	249	366	548	69	90	130	190	274	90	66	1,768 ft
		USt	8.8	6.6	4.4	2.2	0.6	17.6	13.2	8.8	4.4	1.5			
	132 HPL™ 40	fpm	198	259	363	525	671	102	135	189	269	336	132	98	3,740 ft
		USt	8.8	6.6	4.4	2.2	0.8	17.6	13.2	8.8	4.4	2			
	100 VVF 50		2 min									100	75		
	RVF 172 Optima+	rpm	0 → 0.8									2 x 10	2 x 7.5		

IEC 60204-32		
480 V (+6% -10%) 60 Hz	90 HPL™ + 100 VVF: 171 → 95 kVA 132 HPL™ + 100 VVF: 205 → 112 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.

