



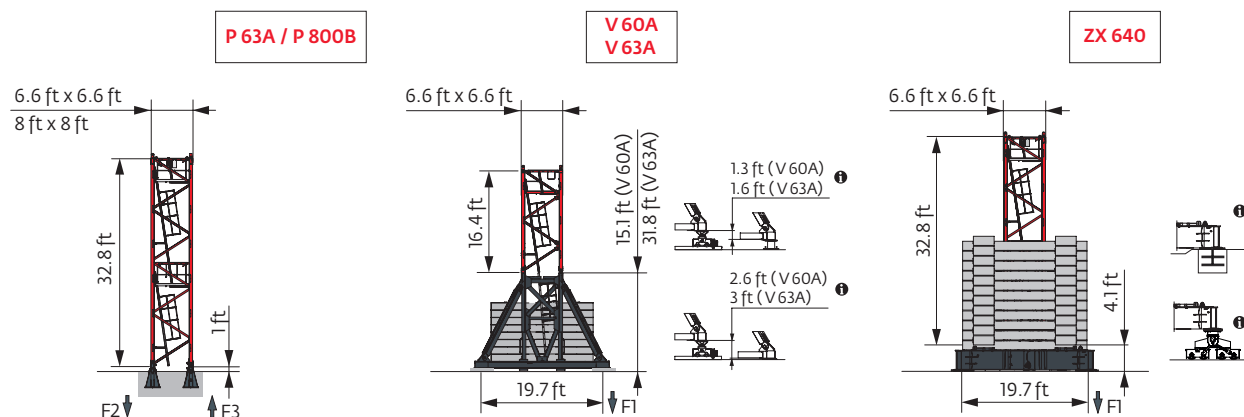
Mast - Reactions

6.6 ft - P 63A								
▲▲▲ (ft)	98	115	131	148	164	180	197	
⚡ (ft)	177.8	177.8	183.4	177.8	172.2	172.2	161.4	
⚡/P+ (ft)	177.8	177.8	183.4	177.8	172.2	172.2	161.4	
10.9 ft	2	2	1	2	0	0	2	
16.4 ft	7	7	8	7	8	8	6	
32.8 ft	1	1	1	1	1	1	1	
F2 (USt)	● 235	237	242	241	240	243	241	
	■ 278	296	328	332	333	352	339	
F3 (USt)	● 174	175	180	179	179	181	180	
	■ 218	235	267	271	272	291	279	

6.6 ft - V 63A -								
▲▲▲ (ft)	98	115	131	148	164	180	197	
⚡ (ft)	170.3	170.3	170.3	170.3	170.3	164.7	159.1	
⚡/P+ (ft)	170.3	170.3	170.3	170.3	164.7	164.7	159.1	
10.9 ft	0	0	0	0	0	1	2	
16.4 ft	8	8	8	8	8	7	6	
F1 (USt)	● 131	135	135	137	142	145	144	
	■ 131	139	145	155	166	168	170	

6.6 ft - V 60A -								
▲▲▲ (ft)	98	115	131	148	164	180	197	
⚡ (ft)	170	170	159.1	153.5	148.3	142.7	131.9	
⚡/P+ (ft)	170	170	159.1	153.5	148.3	142.7	131.9	
10.9 ft	0	0	2	0	1	2	1	
16.4 ft	9	9	7	8	7	6	6	
F1 (USt)	● 130	131	129	128	129	128	126	
	■ 130	134	130	131	132	132	128	

6.6 ft - ZX 640 -								
▲▲▲ (ft)	98	115	131	148	164	180	197	
⚡ (ft)	181.1	181.1	181.1	175.5	175.5	175.5	164.7	
⚡/P+ (ft)	181.1	181.1	181.1	175.5	175.5	175.5	164.7	
10.9 ft	2	2	2	0	0	0	2	
16.4 ft	7	7	7	8	8	8	6	
32.8 ft	1	1	1	1	1	1	1	
F1 (USt)	● 136	137	141	138	145	149	147	
	■ 142	149	159	160	171	182	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.

Other mast compositions - Please consult us.

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

8 ft - P 800B							
ΔΔΔ (ft)	98	115	131	148	164	180	197
↓ (ft)	233.6	228	222.8	217.2	211.6	211.6	206.4
↓/P+ (ft)	233.6	228	222.8	217.2	211.6	211.6	206.4
SEMI-RETRACTABLE	10.9 ft	2	0	1	2	0	1
	16.4 ft	3	6	6	4	6	5
	6.6 ft	1	1	1	1	1	1
	16.4 ft	9	7	6	7	6	6
F2 (Ust)	● 234	230	228	228	226	229	230
	■ 389	380	379	386	383	400	401
F3 (Ust)	● 161	158	157	157	156	158	160
	■ 317	310	309	315	313	330	332

Anchorage



Base ballast

⚙️ (USt) / 6.6 ft - V 60A - ⚙️									
⚙️ (ft)	98	115	131	148	164	180	197		
⚙️ (ft)	170	145.5	145.5						
	159.1	132.3	145.5	145.5					
	153.5	132.3	132.3	145.5	145.5				
	148.3	132.3	132.3	132.3	145.5	145.5			
	142.7	119.1	132.3	132.3	132.3	145.5	145.5		
	131.9	119.1	119.1	119.1	132.3	132.3	145.5	145.5	
	115.5	105.8	105.8	105.8	119.1	119.1	119.1	132.3	
	99.1	92.6	92.6	92.6	105.8	105.8	105.8	119.1	
	82.7	79.4	79.4	92.6	92.6	92.6	92.6	105.8	

⚙️ (USt) / 6.6 ft - V 63A - ⚙️									
⚙️ (ft)	98	115	131	148	164	180	197		
⚙️ (ft)	170.3	145.5	158.7	158.7	158.7	172			
	164.7	145.5	145.5	158.7	158.7	172	185.2		
	159.1	145.5	145.5	145.5	158.7	158.7	172	185.2	
	142.7	132.3	132.3	132.3	145.5	145.5	158.7	158.7	
	126.3	119.1	119.1	119.1	132.3	132.3	132.3	145.5	
	109.9	105.8	105.8	105.8	105.8	119.1	119.1	132.3	
	93.5	92.6	92.6	92.6	105.8	105.8	105.8	119.1	
	77.1	79.4	79.4	79.4	92.6	92.6	92.6	105.8	

⚙️ (USt) / 6.6 ft - ZX 640 - ⚙️									
⚙️ (ft)	98	115	131	148	164	180	197		
⚙️ (ft)	181.1	154.3	154.3	165.4					
	175.5	143.3	143.3	154.3	154.3	176.4	187.4		
	164.7	132.3	132.3	143.3	143.3	154.3	165.4	187.4	
	148.3	121.3	121.3	132.3	132.3	143.3	143.3	154.3	
	131.9	110.2	110.2	110.2	121.3	121.3	132.3	143.3	
	115.5	88.2	99.2	99.2	110.2	110.2	110.2	121.3	
	99.1	77.2	88.2	88.2	99.2	99.2	99.2	110.2	
	82.7	66.1	77.2	77.2	88.2	88.2	88.2	99.2	

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
🏠	🏠 17.6 USt	🏠 8.8 USt	🏠										🏠											
180	15.7 → 72.2	119.1 - 122.5	17.6	17.6	15.1	13.6	11.8	-	10.7	9.4	-	8.8	7.9	-	7.2	6.4	-	5.8	5.1	-	4.7	4.1	4.1	USt
	15.7 → 72.2	119.1 - 122.5	17.6	17.6	15.1	13.6	11.8	-	10.7	9.4	-	8.8	7.9	-	7.3	6.4	-	5.9	5.3	-	4.8	4.3	4.2	USt P+
164	15.1 → 73.8	122.3 - 125.9	17.6	17.6	15.5	14.1	12.2	-	11.1	9.7	-	8.9	8.2	-	7.6	6.7	-	6.2	5.5	5.4	USt			
	15.1 → 73.8	122.3 - 125.9	17.6	17.6	15.5	14.1	12.2	-	11.1	9.7	-	8.9	8.2	-	7.6	6.8	-	6.3	5.6	5.5	USt P+			
148	14.4 → 75.5	124.7 - 128.4	17.6	17.6	15.9	14.4	12.5	-	11.5	10	-	9.2	8.5	-	7.9	7	6.8	USt						
	14.4 → 75.5	124.7 - 128.4	17.6	17.6	15.9	14.4	12.5	-	11.5	10	-	9.2	8.5	-	7.9	7	6.9	USt P+						
131	13.5 → 75.5	127.4 - 131.3	17.6	17.6	16	14.6	12.7	-	11.7	10.3	-	9.5	8.8	8.6	USt									
	13.5 → 75.5	127.4 - 131.3	17.6	17.6	16	14.6	12.7	-	11.7	10.3	-	9.5	8.8	8.6	USt P+									
115	12.1 → 77.1		17.6	17.6	16.5	15.1	13.3	-	12.3	10.9	10.6	USt												
	12.1 → 77.1		17.6	17.6	16.5	15.1	13.3	-	12.3	10.9	10.6	USt P+												
98	10.2 → 78.7		17.6	17.6	16.9	15.6	14	USt													🏠 = 🏠 - 0.44 USt max.			
	10.2 → 79.1		17.6	17.6	16.9	15.6	14	USt P+																

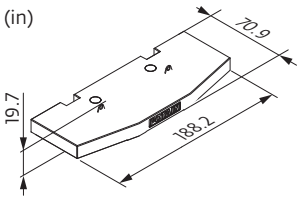


🏠 (ft)		66	72	82	89	98	101.7	105	115	117.6	121	131	133.4	138	148	149.3	154	164	165.1	171	180	181	197	ft
🏠	🏠 8.8 USt	🏠																						
197	15.4 → 121.4	8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	-	8.8	7.8	-	7.3	6.5	-	6	5.3	-	4.9	4.4	-	3.5	USt
	15.4 → 121.4	8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	-	8.8	7.8	-	7.3	6.5	-	6.1	5.4	-	5.1	4.5	-	3.7	USt P+
180	15.7 → 121.4	8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	-	8.8	7.9	-	7.4	6.6	-	6.2	5.5	-	5.1	4.6	4.6	USt	
	15.7 → 121.4	8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	-	8.8	7.9	-	7.4	6.7	-	6.2	5.6	-	5.3	4.8	4.7	USt P+	
164	15.1 → 124.7	8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	-	8.8	8.3	-	7.7	7	-	6.6	6	5.9	USt				
	15.1 → 124.7	8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	-	8.8	8.3	-	7.7	7.1	-	6.6	6.1	6	USt P+				
148	14.4 → 128	8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	-	8.8	8.6	-	8.1	7.4	7.3	USt							
	14.4 → 128	8.8	8.8	8.8	8.8	8.8	-	8.8	8.8	-	8.8	8.6	-	8.1	7.5	7.4	USt P+							
131	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	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	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+																

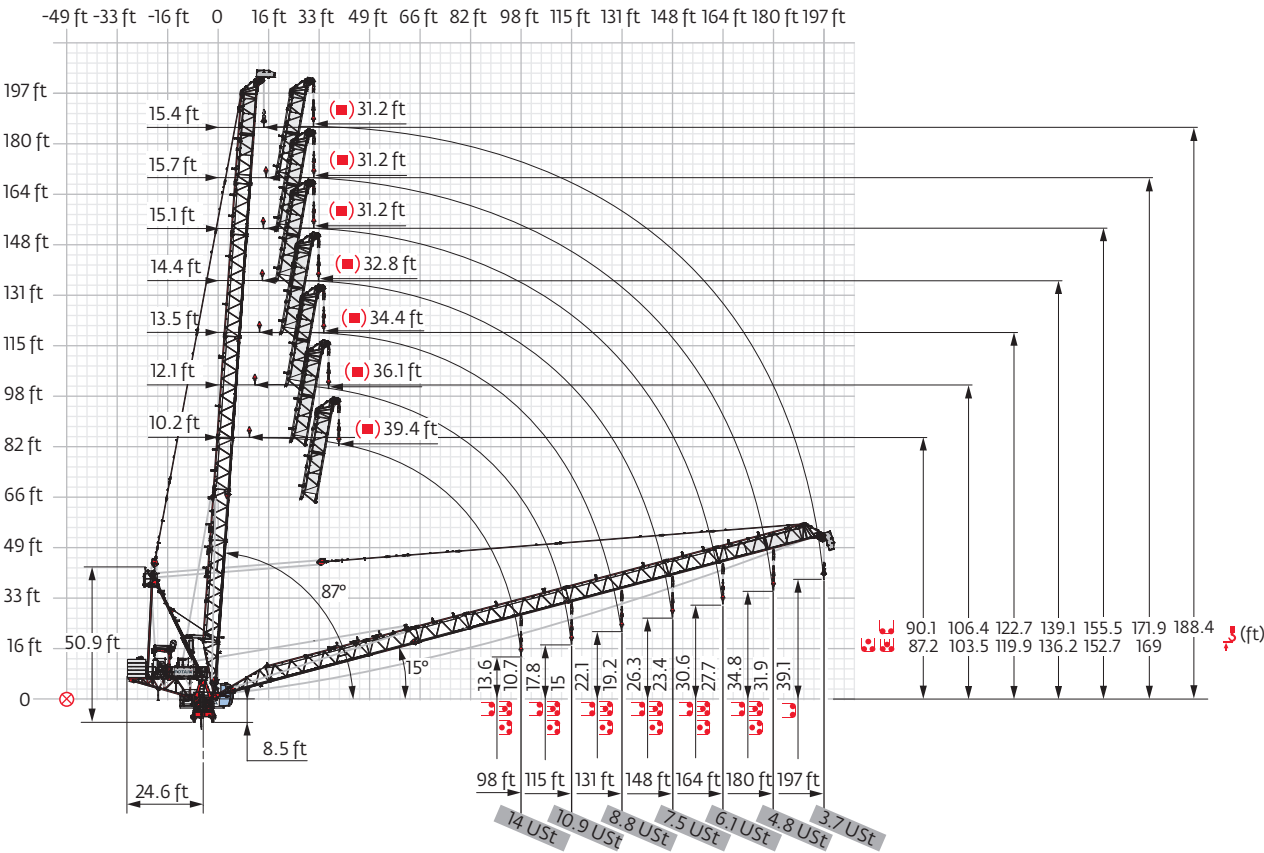
Jib weight & counter-jib ballast

	⚖️ (lb) (+/- 5%)		📊	
	⚖️	⚖️ / ⚖️		
⚖️	🏗️	🏗️	15,873 lb	🏗️ (lb)
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

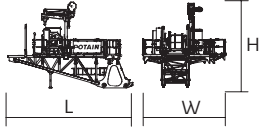
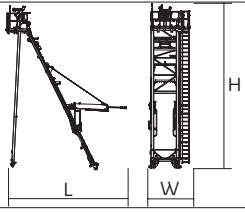
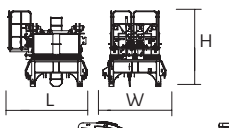
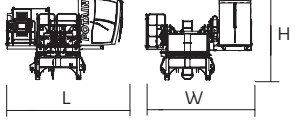
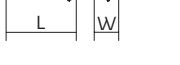
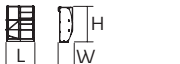
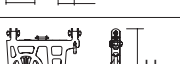
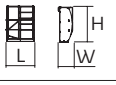
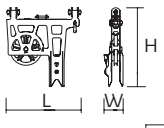
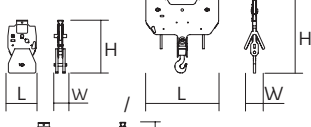
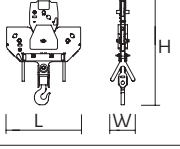


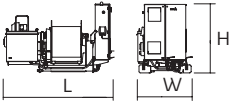
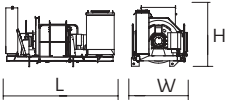
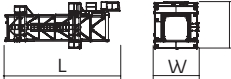
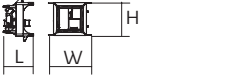
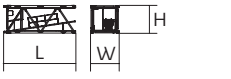
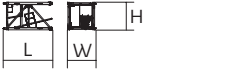
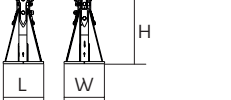
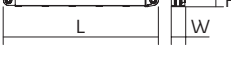
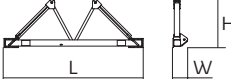
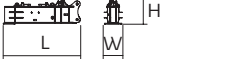
Luffing jib



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	 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	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
Crane tower			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
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 KM 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
K 649C KMT 649C KRMT 649C KRMT 849C		□ 6.6 ft □ 6.6 ft □ 6.6 ft □ 8 ft	11.7 11.7 11.7 11.7	6.8 6.8 6.9 8.4	6.7 6.7 6.8 8.3	4,376 4,542 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	
	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	 kVA	
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	 Total ballast weight	 Slewing
 Options	 Jib articulation axis	 Travelling
 Potain Plus function: Plus load curves	 Weather vaning position	 Required power
 Hook heights with Plus load curves	 Lorry 44 ft	 Power Control Function: winch speeds adapted to the available power
 Reactions in service	 Container High Cube 40 ft, and/or Flat Rack 20 ft	 Consult us
 Reactions out of service	 Hoisting	
 Jib weight	 Luffing	

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

