

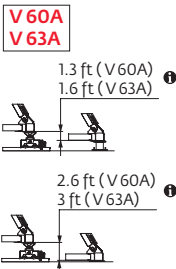
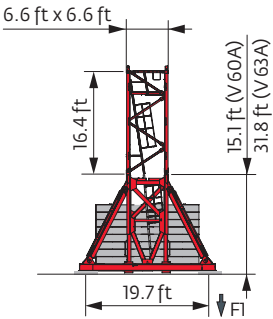
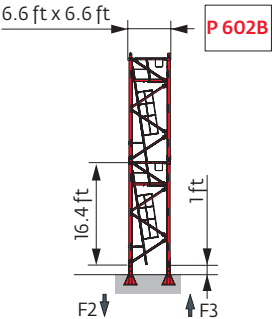






Mast - Reactions

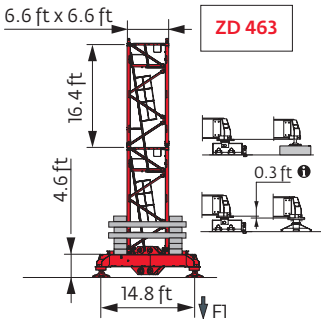
6.6 ft - P 602B									
Height (ft)	82	98	115	131	148	164	180	197	213
Height (ft)	224.7	224.7	224.7	224.7	224.7	224.7	213.9	213.9	213.9
Height/P ₊ (ft)	224.7	224.7	224.7	224.7	224.7	224.7	213.9	213.9	213.9
6.6 ft	1	1	1	1	1	1	1	1	1
10.9 ft	2	2	2	2	2	2	1	1	1
16.4 ft	12	12	12	12	12	12	12	12	12
F2 (USt)	193	192	197	195	195	195	193	194	195
	329	328	334	331	338	339	307	306	313
F3 (USt)	142	140	143	140	139	139	136	136	137
	283	282	285	282	287	288	255	253	260

6.6 ft - V 60A -									
Height (ft)	82	98	115	131	148	164	180	197	213
Height (ft)	206	211.3	206	211.3	211.3	211.3	211.3	211.3	211.3
Height/P ₊ (ft)	206	211.3	206	211.3	211.3	211.3	211.3	211.3	211.3
6.6 ft	1	1	1	1	1	1	1	1	1
10.9 ft	2	1	2	1	1	1	1	1	1
16.4 ft	10	11	10	11	11	11	11	11	11
F1 (USt)	110	112	112	114	114	114	117	118	118
	145	151	147	152	156	157	155	154	158

6.6 ft - V 63A -									
Height (ft)	82	98	115	131	148	164	180	197	213
Height (ft)	228	233.6	233.6	233.6	233.6	233.6	233.6	228	228
Height/P ₊ (ft)	228	233.6	233.6	233.6	233.6	233.6	233.6	228	228
6.6 ft	1	1	1	1	1	1	1	1	1
10.9 ft	1	0	0	0	0	0	0	1	1
16.4 ft	11	12	12	12	12	12	12	11	11
F1 (USt)	131	133	134	134	135	135	138	134	134
	181	188	190	188	192	193	191	182	186



6.6 ft - ZD 463 - 									
W (ft)	82	98	115	131	148	164	180	197	213
 (ft)	168	173.6	168	168	168	168	168	162.7	162.7
 P (ft)	168	173.6	168	168	168	168	162.7	162.7	162.7
	6.6 ft	1	1	1	1	1	1	1	1
	10.9 ft	1	0	1	1	1	1	2	2
	16.4 ft	9	10	9	9	9	9	8	8
FI (USt)	● 111	114	113	111	110	112	116	115	115
	■ 130	138	133	129	134	135	133	124	129











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



Base ballast

 (USt) /  6.6 ft - V 60A - 									
 (ft)	82	98	115	131	148	164	180	197	213
211.3		145.5		145.5	145.5	145.5	145.5	145.5	145.5
206	145.5	145.5	145.5	132.3	145.5	145.5	132.3	132.3	132.3
189.6	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8
173.2	79.4	79.4	79.4	79.4	79.4	79.4	92.6	92.6	92.6
156.8	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
140.4	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9
124	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
107.6	39.7	39.7	39.7	39.7	39.7	26.5	26.5	26.5	26.5
91.2	39.7	39.7	39.7	39.7	39.7	26.5	26.5	26.5	26.5
74.8	39.7	39.7	39.7	39.7	39.7	26.5	26.5	26.5	26.5

 (USt) /  6.6 ft - V 63A - 									
 (ft)	82	98	115	131	148	164	180	197	213
233.6		198.4	198.4	198.4	198.4	198.4	198.4		
228	198.4	185.2	185.2	185.2	185.2	185.2	185.2	185.2	185.2
211.6	158.7	158.7	158.7	145.5	158.7	158.7	145.5	145.5	145.5
195.2	132.3	119.1	119.1	119.1	119.1	119.1	119.1	105.8	119.1
178.8	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
162.4	79.4	79.4	79.4	66.1	66.1	66.1	79.4	79.4	79.4
146	66.1	66.1	66.1	52.9	52.9	52.9	66.1	66.1	66.1
129.6	52.9	52.9	52.9	39.7	39.7	39.7	52.9	52.9	52.9
113.2	39.7	39.7	39.7	39.7	26.5	26.5	39.7	39.7	26.5
96.8	26.5	39.7	26.5	39.7	26.5	26.5	26.5	26.5	26.5
80.4	26.5	39.7	26.5	39.7	26.5	26.5	26.5	26.5	26.5

 (USt) /  6.6 ft - ZD 463 - 									
 (ft)	82	98	115	131	148	164	180	197	213
173.6		137.8							
168	132.3	126.8	132.3	126.8	121.3	126.8	137.8		
162.7	126.8	121.3	121.3	121.3	115.7	115.7	132.3	132.3	132.3
146.3	104.7	99.2	104.7	99.2	93.7	93.7	110.2	110.2	110.2
129.9	88.2	82.7	82.7	82.7	77.2	77.2	88.2	88.2	88.2
113.5	71.7	77.2	71.7	77.2	71.7	66.1	66.1	71.7	66.1
97.1	71.7	77.2	71.7	77.2	71.7	66.1	60.6	49.6	55.1
80.7	71.7	77.2	71.7	77.2	71.7	66.1	60.6	49.6	55.1
64.3	71.7	77.2	71.7	77.2	71.7	66.1	60.6	49.6	55.1

Load curves



		(ft)	66	72	82	89	98	105	115	121	131	138	148	154	164	171	180	187	197	203	213	ft
		11 USt																				
		5.5 USt																				
213	10 → 69	123 - 133	11	10.4	9	8.2	7.2	6.7	6	5.6	5.5	5.3	4.9	4.6	4.3	4.1	3.9	3.7	3.5	3.3	3.2	USt
	10 → 75	133 - 144	11	11	9.9	9	8	7.4	6.6	6.2	5.6	5.5	5.3	5.1	4.7	4.5	4.2	4	3.8	3.6	3.4	USt P_+
197	10 → 73	130 - 141	11	11	9.6	8.8	7.7	7.2	6.4	6	5.5	5.5	5.2	5	4.6	4.4	4.1	4	3.7			USt
	10 → 79	141 - 152	11	11	10.6	9.7	8.5	7.9	7.1	6.6	6	5.7	5.5	5.4	5.1	4.8	4.5	4.3	4.1			USt P_+
180	10 → 74	134 - 144	11	11	9.8	9	8	7.4	6.6	6.2	5.6	5.5	5.3	5.1	4.7	4.5	4.2					USt
	10 → 81	145 - 155	11	11	10.5	9.9	8.8	8.1	7.3	6.8	6.2	5.9	5.5	5.5	5.2	4.9	4.6					USt P_+
164	10 → 74	134 - 144	11	11	9.9	9	8	7.4	6.7	6.2	5.7	5.5	5.4	5.1	4.7							USt
	10 → 81	145 - 156	11	11	10.9	9.9	8.8	8.2	7.3	6.9	6.2	5.9	5.5	5.5	5.2							USt P_+
148	10 → 76	137 - 148	11	11	10.1	9.2	8.2	7.6	6.8	6.4	5.8	5.5	5.5									USt
	10 → 82		11	11	11	10.2	9	8.3	7.5	7	6.4	6	5.5									USt P_+
131	10 → 79		11	11	10.5	9.6	8.5	7.9	7.1	6.7	6.1											USt
	10 → 85		11	11	11	10.6	9.4	8.7	7.8	7.3	6.7											USt P_+
115	10 → 76		11	11	10.1	9.2	8.2	7.6	6.8													USt
	10 → 82		11	11	11	10.2	9	8.3	7.5													USt P_+
98	10 → 78		11	11	10.3	9.5	8.4															USt
	10 → 84		11	11	11	10.4	9.2															USt P_+
82	10 → 78		11	11	10.4																	USt
	10 → 82		11	11	10.9																	USt P_+

$$\text{Load} = \text{USt} - 0.53 \text{ USt max.}$$



		(ft)	66	72	82	89	98	105	115	121	131	138	148	154	164	171	180	187	197	203	213	ft
		11 USt																				
		5.5 USt																				
213	8 → 69	124 - 127	11	10.5	9.1	8.3	7.3	6.8	6.1	5.7	5.3	5	4.6	4.3	4	3.8	3.5	3.4	3.2	3	2.85	USt
	8 → 75	134 - 137	11	11	10	9.1	8	7.4	6.7	6.2	5.7	5.3	5	4.8	4.4	4.2	3.9	3.7	3.5	3.3	3.1	USt P_+
197	8 → 73	132 - 135	11	11	9.7	8.8	7.8	7.2	6.5	6.1	5.5	5.3	4.9	4.7	4.3	4.1	3.8	3.6	3.4			USt
	8 → 79	142 - 145	11	11	10.6	9.7	8.6	8	7.2	6.7	6.1	5.7	5.3	5.1	4.7	4.5	4.2	4	3.8			USt P_+
180	8 → 75	135 - 138	11	11	9.9	9.1	8	7.5	6.7	6.3	5.7	5.5	5.1	4.8	4.5	4.3	4					USt
	8 → 81	146 - 149	11	11	10.6	10	8.8	8.2	7.4	6.9	6.3	5.9	5.5	5.2	4.9	4.7	4.4					USt P_+
164	8 → 75	136 - 138	11	11	9.9	9.1	8.1	7.5	6.7	6.3	5.7	5.5	5.1	4.8	4.5							USt
	8 → 81	147 - 150	11	11	10.9	10	8.9	8.2	7.4	6.9	6.3	6	5.5	5.2	4.9							USt P_+
148	8 → 76	139 - 141	11	11	10.2	9.3	8.3	7.7	6.9	6.5	5.9	5.5	5.2									USt
	8 → 83		11	11	11	10.3	9.1	8.4	7.6	7.1	6.5	6.1	5.6									USt P_+
131	8 → 79		11	11	10.6	9.7	8.6	8	7.2	6.7	6.1											USt
	8 → 86		11	11	11	10.7	9.5	8.8	7.9	7.4	6.7											USt P_+
115	8 → 76		11	11	10.2	9.3	8.2	7.6	6.9													USt
	8 → 83		11	11	11	10.2	9.1	8.4	7.6													USt P_+
98	8 → 78		11	11	10.4	9.5	8.5															USt
	8 → 85		11	11	11	10.5	9.3															USt P_+
82	8 → 79		11	11	10.5																	USt
	8 → 82		11	11	11																	USt P_+

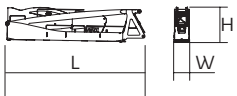

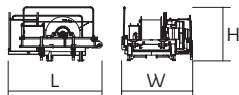
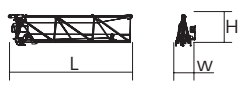
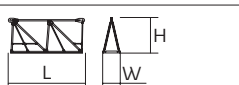
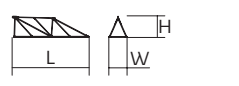


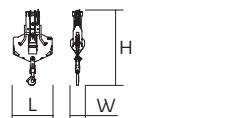

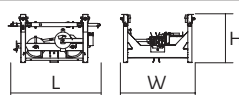


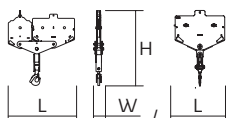


$$\text{Load} = \text{USt} - 0.15 \text{ USt max.}$$

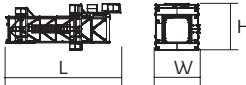
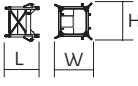




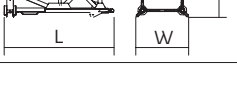
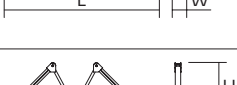

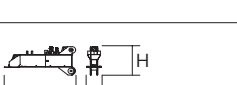

Jib weight & counter-jib ballast

	(lb) (+/- 5%)									CBS - 10,141 lb	CBU - 6,768 lb	CBY - 3,373 lb
				10,141 lb	3,373 lb	(lb)	6,768 lb	3,373 lb	(lb)			
213 ft	27,183	26,610	27,326	5	1	54,079	7	2	54,123			
197 ft	26,698	26,125	26,841	5	1	54,079	7	2	54,123			
180 ft	25,838	25,331	25,993	5	0	50,706	7	1	50,750			
164 ft	23,744	23,237	23,898	4	1	43,938	6	1	43,982			
148 ft	24,030	23,523	24,185	4	1	43,938	6	1	43,982			
131 ft	21,936	21,429	22,090	4	0	40,565	6	0	40,609			
115 ft	21,605	21,098	21,760	3	2	37,170	5	1	37,214			
98 ft	19,775	19,268	19,930	3	1	33,797	5	0	33,841			
82 ft	18,695	18,188	18,850	3	0	30,424	4	1	30,446			









Dimensions and weight




Slewing crane part :  213 ft -  50 LVF

Slewing crane part			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Counter-jib		Ⓐ Ⓑ	36.1 36.1	3.8 3.8	8.1 8.1	19,213 18,629
Towerhead + cab		□ 6.6 ft	16.1	7.5	8.3	18,618
Hoisting winch (+ rope)		50 LVF 90 HPL™	10.6 10.6	8.1 10.8	6.2 5.8	7,319 9,092
Jib section		① 6 DVF	35.5	5.6	8.9	7,760
Jib section		② ④ ⑤ ⑥	33.8 33.5 33.6 33.4	3.9 3.9 3.9 3.9	7.9 7.8 6.9 6	5,335 3,439 2,723 1,753
Jib section		③ ⑦	17.3 16.7	3.9 3.9	7.8 5	2,116 683
Jib section		⑧	16.7	3.9	4.6	485
Trolley		 11 USt	6.1	5	3.4	882
Pulley block		 11 USt	3.3	1.4	6.6	694
Trolley		 11 USt	5.2	5	3.2	463
Trolley		 11 USt  5.5 USt	5.6 6.1	5 5	3.4 3.2	540 520
Pulley block		 11 USt  5.5 USt	5.4 3.6	0.7 0.5	5.6 4.9	717 430

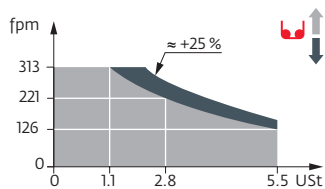
Crane tower			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Telescopic cage T 61		▣ 6.6 ft	35.5	13.6	14.7	21,385
K60/K60		▣ 6.6 ft	7.3	8.1	8.2	4,365
K 649B KM 649E		▣ 6.6 ft	33.6 33.8	6.8 6.7	6.7 6.7	11,663 10,692
K 649A KMT 649A KR 649A KRMT 649A		▣ 6.6 ft	17.2 17.2 17.2 17.2	6.8 6.8 6.9 6.9	6.7 6.7 6.8 6.8	6,184 5,666 7,165 6,724
K 649C KRMT 649C		▣ 6.6 ft	11.7 11.7	6.8 6.9	6.7 6.8	4,376 5,401
Fixing angles		P 602B	2.1	2.1	4.2	650
Basic mast unit		V 60A V 63A	16.4 32.9	7.9 7.9	7.9 7.9	9,674 16,502
Struts		V 60A V 63A	14.8 14.8	1 1.1	1 1.1	919 1,135
Half-bearer		V 60A V 63A	22 22	2.3 2.3	7.6 7.6	3,519 4,079
Cross girder		ZD 463	25.1	3.8	4.5	7,904
1/2 Cross girder		ZD 463	11.2	2.3	4.4	3,649

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 Optima	fpm	212	276	389	705	112	144	210	353	90	66	2,736 ft
		USt	5.5	4.1	2.8	1.4	11	8.3	5.5	2.9			
	6 DVF 4 Optima	fpm	0 → 164 (11 USt) 0 → 328 (6.6 USt) 0 → 394 (3.3 USt)								5.5	4	
	RVF 162 Optima+	rpm	0 → 0.9								2 x 7.5	2 x 5.5	
													

 IEC 60204-32			
480 V(+6% -10%) 60 Hz	50 LVF: 58 → 38 kVA 90 HPL™: 90 → 54 kVA		

50 LVF 25 Optima



These mast combinations meet the EN 14439 and ASME B30.3-2012 specifications for "out of service" wind conditions, provided the illustrated wind speed matches required design wind 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-A. 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 50-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.

	Jib elevation		Total ballast weight		Travelling
	Standard equipment		Jib weight		Required power
	Options		Lorry 44 ft		Power Control Function: winch speeds adapted to the available power
	Potain Plus function: Plus load curves		Container High Cube 40 ft, and/or Flat Rack 20 ft		Consult us
	Hook heights with Plus load curves		Hoisting		
	Reactions in service		Trolleying		
	Reactions out of service		Slewing		



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

