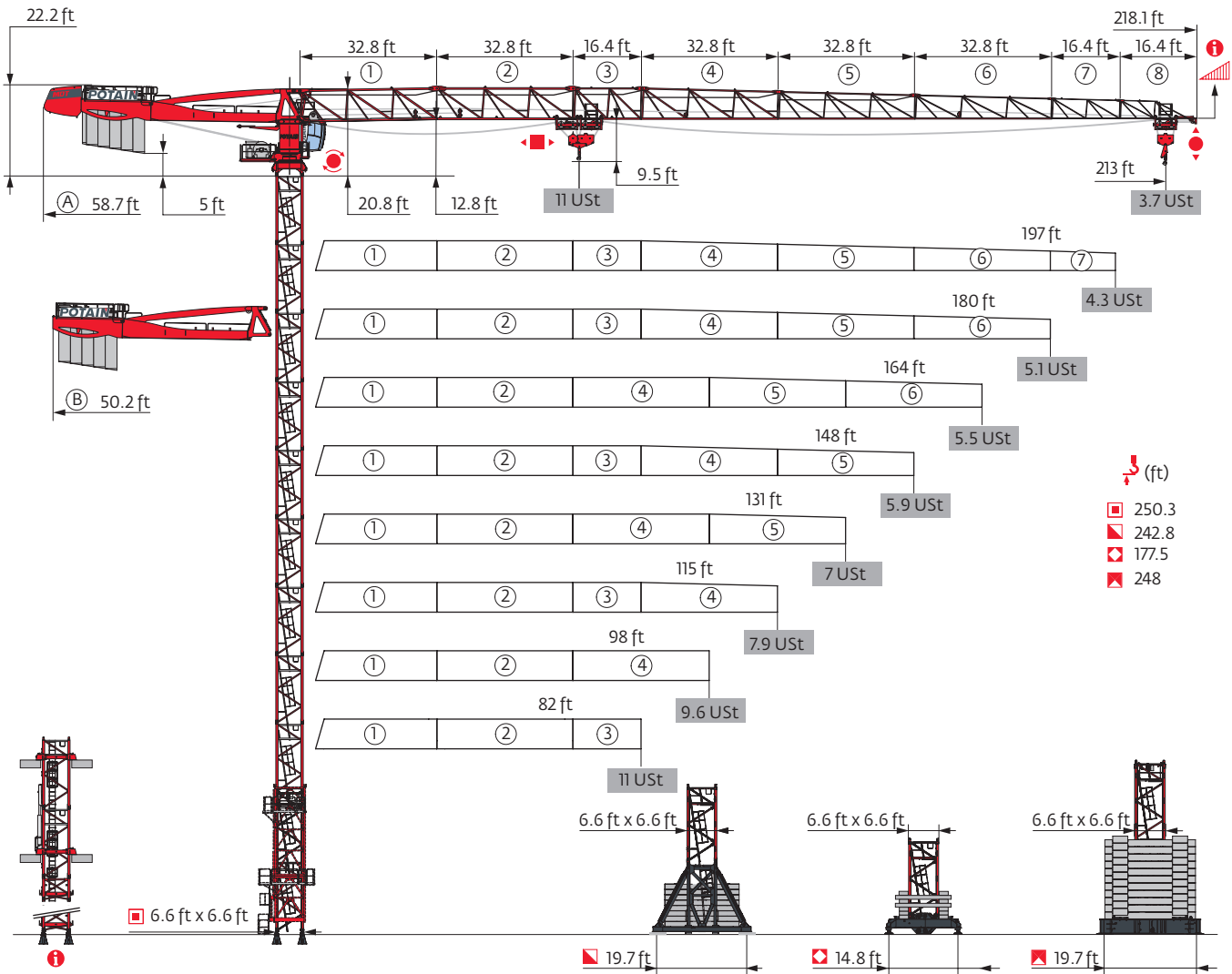


MDT 269 J10

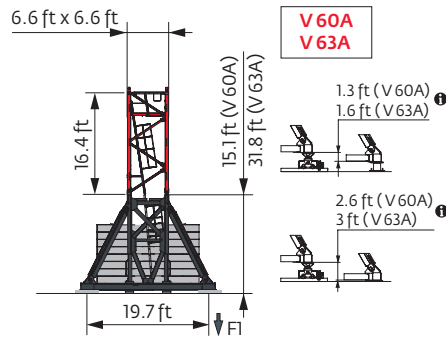
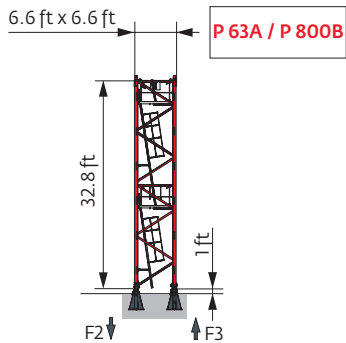



Mast - Reactions




6.6 ft - P 63A									
Height (ft)	82	98	115	131	148	164	180	197	213
\bar{r} (ft)	250.3	245.1	239.5	239.5	239.5	239.5	233.9	228.7	228.7
\bar{r}/P_r (ft)	250.3	245.1	239.5	239.5	239.5	239.5	233.9	228.7	228.7
Lateral Stiffness	10.9 ft	0	1	2	2	2	0	1	1
	16.4 ft	13	12	11	11	11	12	11	11
	32.8 ft	1	1	1	1	1	1	1	1
F2 (USt)	● 214	212	212	212	213	213	208	211	213
	■ 384	371	362	359	367	369	348	331	337
F3 (USt)	● 156	153	152	151	151	151	145	147	149
	■ 332	317	308	304	311	312	291	272	279


6.6 ft - V 60A -									
Height (ft)	82	98	115	131	148	164	180	197	213
\bar{r} (ft)	215.2	215.2	215.2	215.2	215.2	215.2	220.8	215.2	215.2
\bar{r}/P_r (ft)	215.2	215.2	215.2	215.2	215.2	215.2	220.8	215.2	215.2
Lateral Stiffness	10.9 ft	0	0	0	0	0	2	0	0
	16.4 ft	12	12	12	12	12	11	12	12
F1 (USt)	● 111	112	114	113	114	114	119	115	119
	■ 147	146	149	146	150	151	158	148	152




6.6 ft - V 63A -									
Height (ft)	82	98	115	131	148	164	180	197	213
\bar{r} (ft)	237.2	237.2	237.2	242.8	237.2	237.2	231.6	231.6	231.6
\bar{r}/P_r (ft)	237.2	237.2	237.2	242.8	237.2	237.2	231.6	231.6	231.6
Lateral Stiffness	10.9 ft	2	2	2	1	2	0	0	0
	16.4 ft	11	11	11	12	11	12	12	12
F1 (USt)	● 132	133	135	136	135	135	130	131	131
	■ 184	183	186	192	188	189	177	176	180

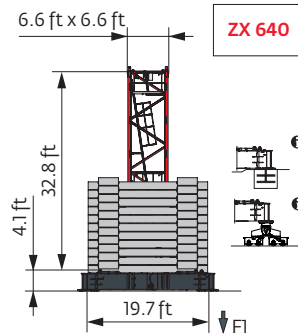
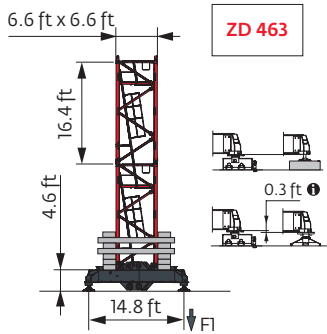


6.6 ft - ZD 463 - 


WIND (ft)	82	98	115	131	148	164	180	197	213
 (ft)	177.5	177.5	177.5	177.5	171.9	171.9	166.3	166.3	166.3
 / P_{st} (ft)	177.5	177.5	171.9	177.5	171.9	171.9	166.3	166.3	161.1
	10.9 ft	2	2	2	0	0	1	1	1
	16.4 ft	9	9	9	9	10	10	9	9
FI (Ust)	● 114	114	115	114	110	110	115	115	115
	■ 135	133	137	134	128	129	119	118	124

6.6 ft - ZX 640 - 

WIND (ft)	82	98	115	131	148	164	180	197	213
 (ft)	248	248	242.5	242.5	242.5	242.5	237.2	231.6	231.6
 / P_{st} (ft)	248	248	242.5	242.5	242.5	242.5	237.2	231.6	231.6
	10.9 ft	1	1	2	2	2	0	1	1
	16.4 ft	12	12	11	11	11	12	11	11
	32.8 ft	1	1	1	1	1	1	1	1
FI (Ust)	● 142	141	141	138	142	142	135	131	134
	■ 197	197	192	190	195	196	183	172	176



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.

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

Other mast compositions - Please consult us

Anchorage



Base ballast

Ust / 6.6 ft - V 60A -

ft	82	98	115	131	148	164	180	197	213
220.8	145.5								
215.2	145.5	145.5	145.5	145.5	145.5	145.5	132.3	132.3	145.5
198.8	119.1	119.1	119.1	105.8	105.8	119.1	105.8	105.8	105.8
182.4	92.6	92.6	92.6	79.4	79.4	79.4	92.6	92.6	92.6
166	79.4	79.4	79.4	66.1	66.1	66.1	79.4	79.4	79.4
149.6	66.1	66.1	66.1	52.9	52.9	52.9	66.1	66.1	66.1
133.2	52.9	52.9	52.9	39.7	39.7	52.9	52.9	52.9	52.9
116.8	39.7	52.9	52.9	39.7	39.7	39.7	39.7	39.7	39.7
100.4	39.7	52.9	52.9	39.7	39.7	39.7	39.7	26.5	26.5
84	39.7	52.9	52.9	39.7	39.7	39.7	39.7	26.5	26.5
67.6	39.7	52.9	52.9	39.7	39.7	39.7	39.7	26.5	26.5

Ust / 6.6 ft - V 63A -

ft	82	98	115	131	148	164	180	197	213
242.8	198.4								
237.2	198.4	198.4	198.4	198.4	198.4	198.4			
231.6	185.2	185.2	185.2	185.2	185.2	185.2	172	172	172
215.2	145.5	145.5	145.5	145.5	145.5	145.5	145.5	132.3	145.5
198.8	119.1	119.1	119.1	119.1	119.1	119.1	105.8	119.1	119.1
182.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
166	79.4	79.4	79.4	66.1	66.1	66.1	79.4	79.4	79.4
149.6	66.1	66.1	66.1	52.9	52.9	52.9	66.1	66.1	66.1
133.2	52.9	52.9	52.9	39.7	39.7	39.7	52.9	52.9	52.9
116.8	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
100.4	39.7	39.7	39.7	39.7	39.7	39.7	39.7	26.5	26.5
84	39.7	39.7	39.7	39.7	39.7	39.7	39.7	26.5	26.5
67.6	39.7	39.7	39.7	39.7	39.7	39.7	39.7	26.5	26.5

Ust / 6.6 ft - ZD 463 -

ft	82	98	115	131	148	164	180	197	213
177.5	137.8	137.8	137.8	132.3					
171.9	132.3	126.8	132.3	126.8	121.3	121.3			
166.3	126.8	121.3	126.8	121.3	115.7	115.7	132.3	132.3	132.3
149.9	104.7	104.7	104.7	99.2	93.7	93.7	110.2	110.2	110.2
133.5	88.2	88.2	88.2	88.2	82.7	82.7	88.2	93.7	88.2
117.1	77.2	88.2	88.2	88.2	82.7	82.7	77.2	71.7	71.7
100.7	77.2	88.2	88.2	88.2	82.7	82.7	77.2	66.1	60.6
84.3	77.2	88.2	88.2	88.2	82.7	82.7	77.2	66.1	60.6
67.9	77.2	88.2	88.2	88.2	82.7	82.7	77.2	66.1	60.6

Ust / 6.6 ft - ZX 640 -

ft	82	98	115	131	148	164	180	197	213
248	220.5 209.4								
242.5	198.4	198.4	209.4	198.4	209.4	209.4			
237.2	187.4	187.4	187.4	187.4	187.4	187.4	187.4		
231.6	176.4	176.4	176.4	165.4	176.4	176.4	176.4	165.4	176.4
215.2	143.3	132.3	143.3	132.3	143.3	143.3	132.3	143.3	143.3
198.8	110.2	110.2	110.2	110.2	110.2	110.2	110.2	121.3	121.3
182.4	99.2	88.2	99.2	99.2	88.2	88.2	88.2	99.2	99.2
166	77.2	77.2	77.2	77.2	77.2	77.2	77.2	88.2	88.2
149.6	66.1	66.1	66.1	66.1	55.1	55.1	55.1	66.1	66.1
133.2	44.1	44.1	44.1	44.1	44.1	44.1	44.1	55.1	44.1
116.8	33.1	44.1	44.1	44.1	44.1	44.1	33.1	33.1	33.1
100.4	33.1	44.1	44.1	44.1	44.1	44.1	33.1	22.1	22.1
84	33.1	44.1	44.1	44.1	44.1	44.1	33.1	22.1	22.1
67.6	33.1	44.1	44.1	44.1	44.1	44.1	33.1	22.1	22.1

Load curves



(ft)			72	82	89	98	105	115	121	131	138	148	154	164	171	180	187	197	203	213	ft	
AVAIL	11 USt	5.5 USt																				
213	10 → 75	137 - 148	11	10	9.1	8.1	7.5	6.8	6.4	5.8	5.5	5.5	5.2	4.8	4.6	4.3	4.1	3.8	3.7	3.5	USt	
	10 → 79	141 - 151	11	10.6	9.7	8.6	7.9	7.1	6.6	6	5.6	5.5	5.4	5	4.8	4.5	4.3	4	3.9	3.7	USt P+	
197	10 → 79	145 - 155	11	10.6	9.7	8.7	8.1	7.3	6.8	6.2	5.9	5.5	5.5	5.1	4.9	4.6	4.4	4.1			USt	
	10 → 83	148 - 158	11	11	10.2	9.1	8.4	7.5	7	6.4	6	5.5	5.5	5.3	5.1	4.7	4.5	4.3			USt P+	
180	10 → 79	145 - 157	11	10.6	9.7	8.6	8	7.2	6.8	6.2	5.9	5.5	5.5	5.2	5	4.7					USt	
	10 → 84	156 - 168	11	11	10.4	9.2	8.6	7.8	7.3	6.7	6.4	5.9	5.6	5.5	5.4	5.1					USt P+	
164	10 → 79	142 - 152	11	10.5	9.6	8.5	7.9	7.1	6.6	6	5.7	5.5	5.4	5.1							USt	
	10 → 82	152 - 164	11	10.9	10.1	9	8.4	7.6	7.2	6.6	6.2	5.7	5.5	5.5							USt P+	
148	10 → 79	143 - 148	11	10.5	9.6	8.5	7.9	7.1	6.7	6.1	5.7	5.5									USt	
	10 → 82		11	11	10.2	9.1	8.5	7.7	7.2	6.6	6.3	5.8									USt P+	
131	10 → 81		11	10.9	10.1	9	8.3	7.5	7.1	6.5											USt	
	10 → 86		11	11	10.6	9.5	8.9	8	7.6	6.9												USt P+
115	10 → 79		11	10.6	9.7	8.7	8.1	7.3													USt	
	10 → 84		11	11	10.4	9.3	8.6	7.8														USt P+
98	10 → 82		11	11	10.1	9															USt	
	10 → 86		11	11	10.7	9.5																USt P+
82	10 → 81		11	10.9																	USt	
	10 → 82		11	10.9																		USt P+

$$U_{L2} = U_L - 0.5 \text{ USt max.}$$

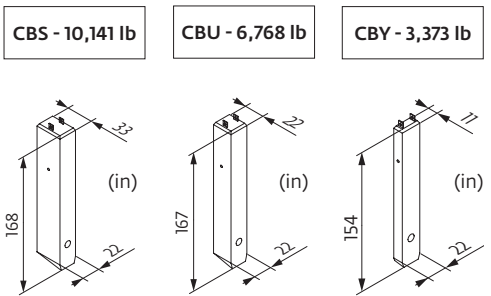


(ft)			72	82	89	98	105	115	121	131	138	148	154	164	171	180	187	197	203	213	ft	
AVAIL	11 USt	5.5 USt																				
213	8 → 75	139 - 139	11	10	9.2	8.2	7.6	6.9	6.4	5.9	5.6	5.2	4.9	4.5	4.3	4	3.8	3.5	3.3	3.1	USt	
	8 → 80	142 - 143	11	10.7	9.8	8.6	8	7.2	6.7	6.1	5.7	5.3	5	4.7	4.5	4.2	4	3.7	3.5	3.3	USt P+	
197	8 → 80	147 - 148	11	10.7	9.8	8.7	8.1	7.3	6.9	6.3	5.9	5.5	5.2	4.8	4.6	4.2	4	3.8			USt	
	8 → 83	149 - 151	11	11	10.3	9.2	8.4	7.6	7.1	6.5	6.1	5.6	5.4	5	4.7	4.4	4.2	4			USt P+	
180	8 → 79	147 - 151	11	10.6	9.8	8.7	8.1	7.3	6.9	6.3	5.9	5.5	5.3	5	4.7	4.4					USt	
	8 → 84	158 - 161	11	11	10.4	9.3	8.7	7.9	7.4	6.8	6.4	6	5.7	5.4	5.2	4.8					USt P+	
164	8 → 79	143 - 146	11	10.6	9.7	8.6	8	7.2	6.7	6.1	5.8	5.4	5.2	4.8							USt	
	8 → 82	154 - 157	11	11	10.2	9.1	8.5	7.7	7.2	6.6	6.3	5.8	5.5	5.3							USt P+	
148	8 → 79	144 - 148	11	10.6	9.7	8.6	8	7.2	6.7	6.2	5.8	5.5									USt	
	8 → 83		11	11	10.3	9.2	8.6	7.8	7.3	6.7	6.3	5.9									USt P+	
131	8 → 82		11	11	10.1	9	8.4	7.6	7.1	6.5											USt	
	8 → 86		11	11	10.7	9.6	8.9	8.1	7.6	7												USt P+
115	8 → 80		11	10.7	9.8	8.8	8.1	7.4													USt	
	8 → 84		11	11	10.5	9.4	8.7	7.9														USt P+
98	8 → 83		11	11	10.2	9.1															USt	
	8 → 87		11	11	10.8	9.6																USt P+
82	8 → 81		11	10.9																	USt	
	8 → 82		11	11																		USt P+

$$U_{L2} = U_L - 0.14 \text{ USt max.}$$

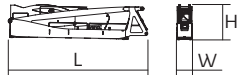

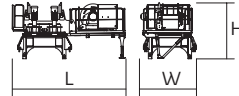

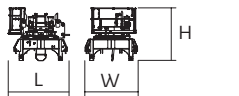


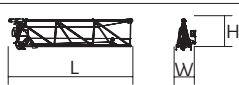
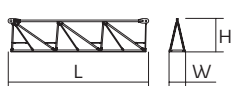

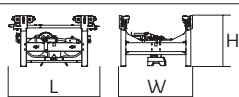

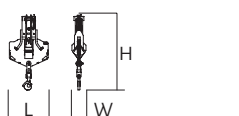

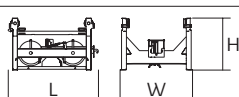

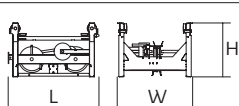


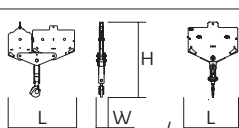


Jib weight & counter-jib ballast

AVAIL	(lb) (+/- 5%)								
				10,141 lb	3,373 lb	(lb)	6,768 lb	3,373 lb	(lb)
213 ft	27,472	26,863	27,672	5	1	54,079	7	2	54,123
197 ft	26,978	26,369	27,179	5	1	54,079	7	2	54,123
180 ft	26,131	25,589	26,288	5	0	50,706	7	1	50,750
164 ft	24,273	23,731	24,429	4	1	43,938	6	1	43,982
148 ft	24,588	24,046	24,745	4	1	43,938	6	1	43,982
131 ft	22,800	22,258	22,957	4	0	40,565	6	0	40,609
115 ft	22,536	21,993	22,692	3	2	37,170	5	1	37,214
98 ft	20,435	19,892	20,591	3	1	33,797	5	0	33,841
82 ft	19,268	18,726	19,425	3	0	30,424	4	1	30,446



Dimensions and weight

Slewing crane part:  213 ft -  50 LVF  x 6  x 6

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
Cab mast + cab		Ultra View	16.1	7.3	8.2	11,684
Towerhead + Hoisting winch (+ rope)		 6.6 ft 50 LVF	16.9	8.2	9.1	18,993
Towerhead		 6.6 ft	9.3	8.1	8.1	11,684
Hoisting winch (+ rope)		90 HPL™	14	7.5	7.6	9,680
Jib section		① 6 DVF	35.5	5.6	9	7,959
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 ⑧	17.3 16.7 16.7	3.9 3.9 3.9	7.8 5 4.6	2,116 683 485
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

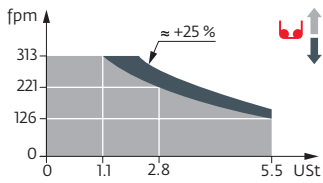
Crane tower		L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Telescopic cage T 61		35.5	13.6	14.7	21,385
K 649B KM 649E KRM 6410B		33.6 33.8 33.6	6.8 6.7 6.9	6.7 6.7 6.8	11,663 10,692 15,653
KR 649A KRMT 649A K 649A KMT 649A		17.2 17.2 17.2 17.2	6.9 6.9 6.8 6.8	6.8 6.8 6.7 6.7	7,165 6,724 6,184 5,666
K 649C KMT 649C KRMT 649C		11.7 11.7 11.7	6.8 6.8 6.9	6.7 6.7 6.8	4,376 4,542 5,401
Fixing angles		2.5	2.5	4.2	1,025
Basic mast unit		16.4 32.9	7.9 7.9	7.9 7.9	10,494 16,887
Struts		14.8 14.8	1 1.1	1 1.1	1,036 1,235
Half-bearer		22 22	2.3 2.3	7.6 7.6	4,057 4,101
Cross girder		25.1	3.8	4.5	7,904
1/2 Cross girder		11.2	2.3	4.4	3,649
1/2 Cross girder		14.3	3.3	5.1	7,319
Cross girder		30	3.9	5.1	15,168

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			
	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		kVA
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 B30.3-2016 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.

- Jib elevation
- Total ballast weight
- Travelling
- Standard equipment
- Jib weight
- Required power
- Options
- Lorry 44 ft
- Power Control Function: wind 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.

