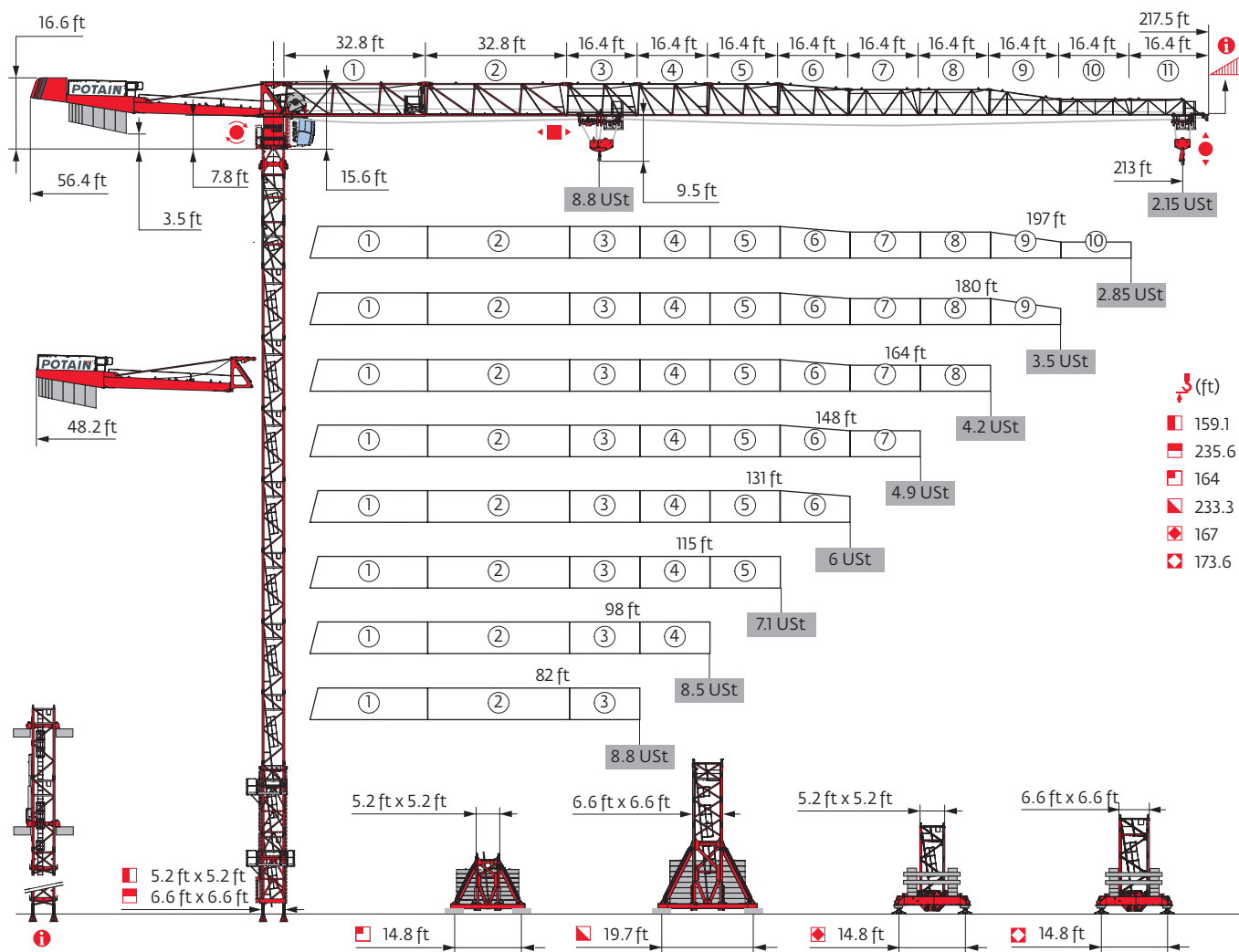


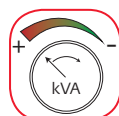
MDT 219 J8



Potain Plus



Power Control



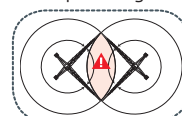
CraneSTAR



Top Site



Top Tracing 3



Mast - Reactions

5.2 ft City - ZD 4230 - 										
MAST (ft)	82	98	115	131	148	164	180	197	213	
⬇️ (ft)	150.6	150.6	155.8	150.6	150.6	150.6	145	145	145	
⬇️/P+ (ft)	150.6	145	150.6	150.6	150.6	150.6	145	145	145	
	10.9 ft	0	0	2	0	0	1	1	1	
	16.4 ft	9	9	8	9	9	8	8	8	
FI (UST)	● 76	78	79	83	83	81	81	82	83	
	■ 71	71	77	74	75	76	75	78	80	

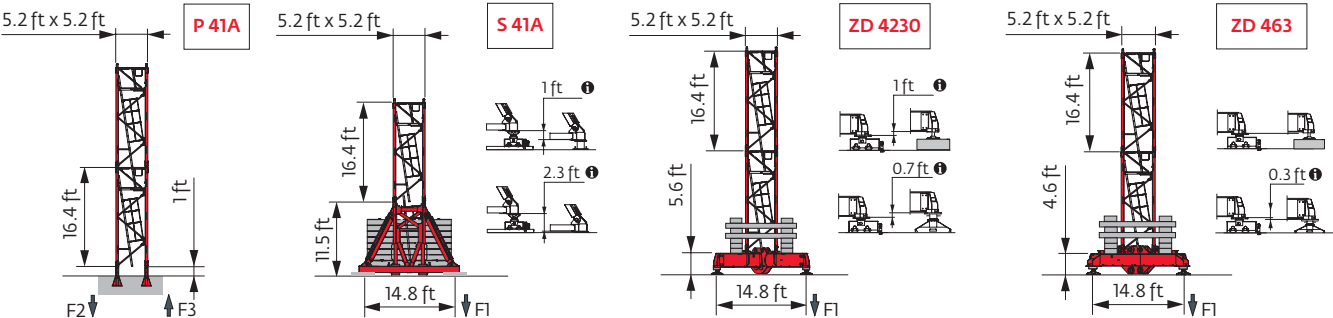
5.2 ft City - ZD 463 - 										
MAST (ft)	82	98	115	131	148	164	180	197	213	
⬇️ (ft)	167	167	167	161.4	161.4	155.8	150.6	155.8	155.8	
⬇️/P+ (ft)	167	161.4	161.4	161.4	161.4	155.8	150.6	155.8	155.8	
	10.9 ft	0	0	1	1	2	0	2	2	
	16.4 ft	10	10	9	9	8	9	8	8	
FI (UST)	● 82	84	85	86	88	84	84	88	89	
	■ 84	84	85	83	85	81	79	88	93	

5.2 ft - P 41A 										
MAST (ft)	82	98	115	131	148	164	180	197	213	
⬇️ (ft)	159.1	159.1	159.1	153.5	153.5	148	148	148	148	
⬇️/P+ (ft)	159.1	159.1	159.1	153.5	153.5	148	148	148	148	
	6.6 ft	1	1	1	1	1	1	1	1	
	10.9 ft	2	2	2	0	0	1	1	1	
	16.4 ft	8	8	8	9	9	8	8	8	
F2 (UST)	● 132	148	148	144	144	136	140	142	144	
	■ 159	159	162	150	153	145	153	161	168	
F3 (UST)	● 98	112	111	108	107	99	103	105	106	
	■ 130	127	130	118	120	113	120	127	135	

5.2 ft - S 41A - 										
MAST (ft)	82	98	115	131	148	164	180	197	213	
⬇️ (ft)	164	164	164	164	158.5	158.5	152.9	152.9	152.9	
⬇️/P+ (ft)	164	164	164	164	158.5	158.5	152.9	152.9	152.9	
	6.6 ft	1	1	1	1	1	1	1	1	
	10.9 ft	0	0	0	1	1	2	2	2	
	16.4 ft	9	9	9	8	8	7	7	7	
FI (UST)	● 84	90	90	91	90	88	89	89	90	
	■ 91	90	92	93	89	90	90	94	99	

5.2 ft - ZD 4230 - 										
MAST (ft)	82	98	115	131	148	164	180	197	213	
⬇️ (ft)	146	146	146	146	146	146	140.8	140.8	140.8	
⬇️/P+ (ft)	146	129.6	129.6	140.8	146	146	140.8	140.8	140.8	
	6.6 ft	1	1	1	1	1	1	1	1	
	10.9 ft	2	2	2	2	2	0	0	0	
	16.4 ft	7	7	7	7	7	8	8	8	
FI (UST)	● 76	79	79	79	84	82	82	82	83	
	■ 75	75	76	77	79	79	77	80	84	

5.2 ft - ZD 463 - 										
MAST (ft)	82	98	115	131	148	164	180	197	213	
⬇️ (ft)	162.4	162.4	157.2	157.2	151.6	151.6	146	146	151.6	
⬇️/P+ (ft)	162.4	162.4	157.2	157.2	151.6	151.6	146	146	151.6	
	6.6 ft	1	1	1	1	1	1	1	1	
	10.9 ft	2	2	0	0	1	2	2	1	
	16.4 ft	8	8	9	9	8	7	7	8	
FI (UST)	● 84	91	88	88	86	84	85	85	89	
	■ 92	91	85	86	83	83	83	87	97	

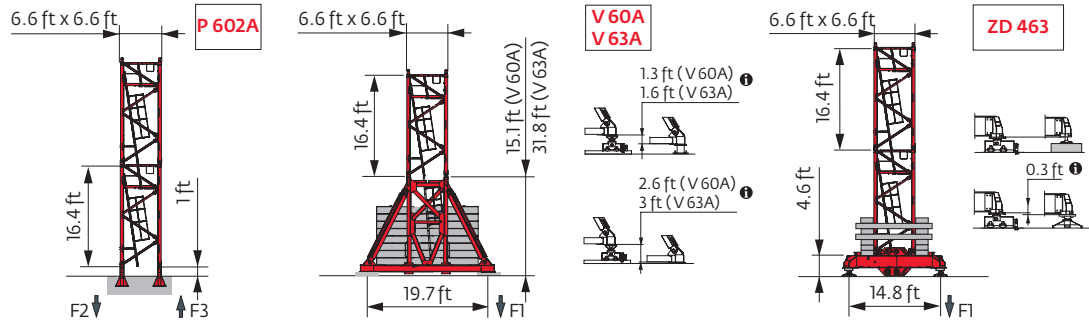


6.6 ft - P 602A										
WIND (ft)	82	98	115	131	148	164	180	197	213	
h (ft)	235.6	235.6	235.6	230	230	230	230	224.7	219.2	
h/P ₊ (ft)	235.6	235.6	235.6	230	230	230	230	224.7	219.2	
6.6 ft	1	1	1	1	1	1	1	1	1	
10.9 ft	0	0	0	1	1	1	1	2	0	
16.4 ft	14	14	14	13	13	13	13	12	13	
F2 (Ust)	170	176	177	175	177	177	182	179	175	
	336	335	338	327	330	331	338	331	320	
F3 (Ust)	126	132	131	129	130	129	133	131	128	
	296	295	297	285	287	288	293	287	277	

6.6 ft - V 60A -										
WIND (ft)	82	98	115	131	148	164	180	197	213	
h (ft)	211.3	211.3	211.3	211.3	211.3	211.3	206	206	200.5	
h/P ₊ (ft)	211.3	211.3	211.3	211.3	211.3	211.3	206	206	200.5	
6.6 ft	1	1	1	1	1	1	1	1	1	
10.9 ft	1	1	1	1	1	1	2	2	0	
16.4 ft	11	11	11	11	11	11	10	10	11	
F1 (Ust)	100	102	103	104	105	105	105	105	104	
	144	144	145	146	147	148	145	149	144	

6.6 ft - V 63A -										
WIND (ft)	82	98	115	131	148	164	180	197	213	
h (ft)	233.3	233.3	233.3	233.3	233.3	233.3	233.3	228	228	
h/P ₊ (ft)	233.3	233.3	233.3	233.3	233.3	233.3	233.3	228	228	
6.6 ft	1	1	1	1	1	1	1	1	1	
10.9 ft	0	0	0	0	0	0	0	1	1	
16.4 ft	12	12	12	12	12	12	12	11	11	
F1 (Ust)	120	122	122	123	124	125	126	125	126	
	179	178	180	181	182	183	186	183	187	

6.6 ft - ZD 463 -										
WIND (ft)	82	98	115	131	148	164	180	197	213	
h (ft)	173.6	173.6	173.6	173.6	173.6	173.6	168	162.4	162.4	
h/P ₊ (ft)	173.6	173.6	173.6	173.6	173.6	173.6	168	162.4	162.4	
6.6 ft	1	1	1	1	1	1	1	1	1	
10.9 ft	0	0	0	0	0	0	1	2	2	
16.4 ft	10	10	10	10	10	10	9	8	8	
F1 (Ust)	100	104	104	105	105	104	103	102	104	
	132	130	132	133	135	136	132	130	135	



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) /  5.2 ft City - ZD 4230 - 										
RAVAL (ft)	82	98	115	131	148	164	180	197	213	
155.8	93.7									
150.6	93.7	93.7	93.7	93.7	93.7	93.7				
145	88.2	93.7	93.7	93.7	88.2	88.2	93.7	93.7	93.7	
(ft) 128.6	71.7	93.7	88.2	88.2	88.2	77.2	77.2	77.2	71.7	
112.2	66.1	88.2	88.2	82.7	82.7	66.1	66.1	66.1	66.1	
95.8	66.1	88.2	88.2	82.7	82.7	66.1	60.6	60.6	60.6	
79.4	66.1	88.2	88.2	82.7	82.7	66.1	60.6	60.6	60.6	
63	66.1	88.2	88.2	82.7	82.7	66.1	60.6	60.6	60.6	

 (USt) /  5.2 ft - S 41A - 										
RAVAL (ft)	82	98	115	131	148	164	180	197	213	
164	105.8	105.8	105.8	105.8						
158.5	105.8	105.8	105.8	105.8	105.8	105.8				
152.9	99.2	99.2	99.2	99.2	99.2	99.2	105.8	105.8	105.8	
136.5	86	99.2	92.6	92.6	92.6	86	86	86	86	
(ft) 120.1	72.8	92.6	86	86	86	72.8	72.8	72.8	72.8	
103.7	59.5	86	79.4	79.4	72.8	66.1	59.5	59.5	66.1	
87.3	59.5	86	79.4	79.4	72.8	59.5	59.5	52.9	59.5	
70.9	59.5	86	79.4	79.4	72.8	59.5	59.5	52.9	59.5	
54.5	59.5	86	79.4	79.4	72.8	59.5	59.5	52.9	59.5	

 (USt) /  5.2 ft - ZD 463 - 										
RAVAL (ft)	82	98	115	131	148	164	180	197	213	
162.4	104.7	104.7								
157.2	99.2	99.2	99.2	99.2						
151.6	93.7	99.2	93.7	93.7	93.7				99.2	
146	88.2	93.7	93.7	93.7	88.2	88.2	93.7	93.7	93.7	
(ft) 129.6	77.2	88.2	88.2	88.2	82.7	77.2	77.2	77.2	77.2	
113.2	66.1	82.7	82.7	77.2	77.2	66.1	66.1	66.1	66.1	
97.1	66.1	77.2	77.2	77.2	71.7	66.1	66.1	66.1	66.1	
80.7	66.1	77.2	77.2	77.2	71.7	66.1	66.1	66.1	66.1	
64.3	66.1	77.2	77.2	77.2	71.7	66.1	66.1	66.1	66.1	

 (USt) /  6.6 ft - V 63A - 										
RAVAL (ft)	82	98	115	131	148	164	180	197	213	
233.3	198.4	198.4	198.4	198.4	198.4	198.4	198.4			
228	185.2	185.2	185.2	185.2	185.2	185.2	185.2	198.4	198.4	
211.6	158.7	158.7	158.7	158.7	158.7	158.7	158.7	158.7	172	
195.2	119.1	119.1	119.1	119.1	119.1	119.1	132.3	132.3	132.3	
178.8	92.6	92.6	92.6	92.6	92.6	92.6	92.6	105.8	105.8	
(ft) 162.4	66.1	66.1	66.1	66.1	66.1	66.1	66.1	79.4	79.4	
146	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	
129.6	52.9	52.9	39.7	39.7	39.7	39.7	52.9	39.7	39.7	
113.2	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	
96.8	26.5	39.7	39.7	39.7	39.7	26.5	26.5	26.5	39.7	
80.4	26.5	39.7	39.7	39.7	39.7	26.5	26.5	26.5	39.7	
64	26.5	39.7	39.7	39.7	39.7	26.5	26.5	26.5	39.7	

 (USt) /  5.2 ft City - ZD 463 - 										
RAVAL (ft)	82	98	115	131	148	164	180	197	213	
167	99.2	99.2	99.2							
161.4	99.2	99.2	93.7	93.7	99.2					
155.8	93.7	93.7	93.7	93.7	93.7	93.7		99.2	99.2	
150.6	88.2	93.7	88.2	88.2	88.2	88.2	93.7	93.7	93.7	
(ft) 134.2	71.7	88.2	88.2	82.7	82.7	71.7	77.2	77.2	71.7	
117.8	60.6	88.2	82.7	82.7	77.2	66.1	60.6	60.6	60.6	
101.4	60.6	88.2	82.7	82.7	77.2	60.6	60.6	55.1	60.6	
85	60.6	88.2	82.7	82.7	77.2	60.6	60.6	55.1	55.1	
68.6	60.6	88.2	82.7	82.7	77.2	60.6	60.6	55.1	55.1	
52.2	60.6	88.2	82.7	82.7	77.2	60.6	60.6	55.1	55.1	

 (USt) /  5.2 ft - ZD 4230 - 										
RAVAL (ft)	82	98	115	131	148	164	180	197	213	
146	93.7	93.7	93.7	93.7	93.7	93.7				
140.8	88.2	88.2	88.2	93.7	93.7	88.2	93.7	93.7	93.7	
124.3	77.2	93.7	93.7	88.2	82.7	77.2	77.2	77.2	77.2	
(ft) 107.9	77.2	88.2	82.7	82.7	77.2	77.2	77.2	77.2	77.2	
91.5	77.2	88.2	82.7	82.7	77.2	77.2	77.2	77.2	77.2	
75.1	77.2	88.2	82.7	82.7	77.2	77.2	77.2	77.2	77.2	
58.7	77.2	88.2	82.7	82.7	77.2	77.2	77.2	77.2	77.2	

 (USt) /  6.6 ft - V 60A - 										
RAVAL (ft)	82	98	115	131	148	164	180	197	213	
211.3	145.5	145.5	145.5	145.5	145.5	145.5				
206	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5		
200.5	132.3	132.3	132.3	132.3	132.3	132.3	132.3	132.3	145.5	
184.1	105.8	92.6	105.8	105.8	105.8	92.6	105.8	105.8	119.1	
167.7	79.4	66.1	66.1	66.1	66.1	66.1	79.4	79.4	92.6	
(ft) 151.3	66.1	66.1	52.9	52.9	52.9	52.9	66.1	66.1	66.1	
134.8	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	
118.4	39.7	52.9	52.9	39.7	39.7	39.7	39.7	39.7	39.7	
102	26.5	52.9	52.9	39.7	39.7	26.5	26.5	26.5	39.7	
85.6	26.5	52.9	52.9	39.7	39.7	26.5	26.5	26.5	39.7	
69.2	26.5	52.9	52.9	39.7	39.7	26.5	26.5	26.5	39.7	
52.8	26.5	52.9	52.9	39.7	39.7	26.5	26.5	26.5	39.7	

 (USt) /  6.6 ft - ZD 463 - 										
RAVAL (ft)	82	98	115	131	148	164	180	197	213	
173.6	137.8	132.3	132.3	132.3	132.3	132.3				
168	121.3	121.3	121.3	121.3	121.3	121.3	126.8			
162.4	110.2	110.2	110.2	110.2	110.2	110.2	115.7	126.8	132.3	
146	93.7	93.7	88.2	93.7	93.7	93.7	99.2	99.2	99.2	
(ft) 129.6	77.2	82.7	82.7	77.2	77.2	77.2	77.2	77.2	77.2	
113.2	60.6	82.7	82.7	77.2	71.7	60.6	60.6	60.6	60.6	
97.1	55.1	82.7	82.7	77.2	71.7	60.6	55.1	55.1	55.1	
80.7	55.1	82.7	82.7	77.2	71.7	60.6	55.1	55.1	55.1	
64.3	55.1	82.7	82.7	77.2	71.7	60.6	55.1	55.1	55.1	

Load curves



		(ft)	56	66	72	82	89	98	105	115	121	131	138	148	154	164	171	180	187	197	203	213	ft
		8.8 USt																					
		4.4 USt																					
213	10 → 66	120 - 129	8.8	8.8	8.1	7	6.4	5.7	5.3	4.7	4.4	4.3	4	3.7	3.5	3.2	3	2.8	2.65	2.45	2.3	2.15	USt
	10 → 72	122 - 131	8.8	8.8	8.8	7.6	6.8	6	5.4	4.8	4.4	4.4	4.1	3.8	3.6	3.3	3.1	2.95	2.8	2.55	2.35	2.15	USt P_{+}
197	10 → 72	129 - 138	8.8	8.8	8.7	7.6	7	6.2	5.7	5.1	4.8	4.4	4.4	4	3.8	3.6	3.4	3.2	3	2.85	USt		
	10 → 76	130 - 138	8.8	8.8	8.8	8.1	7.4	6.5	5.9	5.3	4.8	4.4	4.4	4.1	3.9	3.6	3.4	3.2	3	2.85	USt P_{+}		
180	10 → 77	137 - 146	8.8	8.8	8.8	8.2	7.5	6.7	6.2	5.6	5.2	4.7	4.4	4.4	4.1	3.8	3.7	3.4	USt				
	10 → 81	138 - 148	8.8	8.8	8.8	8.6	7.9	7	6.4	5.7	5.2	4.7	4.4	4.4	4.2	3.9	3.7	3.5	USt P_{+}				
164	10 → 82	146 - 154	8.8	8.8	8.8	8.8	8	7.2	6.7	6	5.6	5.1	4.8	4.4	4.4	4.2	USt						
	10 → 84	147 - 157	8.8	8.8	8.8	8.8	8.3	7.4	6.9	6.2	5.7	5.2	4.8	4.4	4.4	4.2	USt P_{+}						
148	10 → 83		8.8	8.8	8.8	8.8	8.2	7.3	6.7	6.1	5.7	5.2	4.9	4.5	USt								
	10 → 90		8.8	8.8	8.8	8.8	8.8	8	7.4	6.7	6.2	5.6	5.2	4.8	USt P_{+}								
131	10 → 84		8.8	8.8	8.8	8.8	8.3	7.4	6.9	6.2	5.8	5.3	USt										
	10 → 92		8.8	8.8	8.8	8.8	8.8	8.1	7.6	6.8	6.4	5.9	USt P_{+}										
115	10 → 85		8.8	8.8	8.8	8.8	8.5	7.5	7	6.3	USt												
	10 → 93		8.8	8.8	8.8	8.8	8.8	8.3	7.7	7	USt P_{+}												
98	10 → 87		8.8	8.8	8.8	8.8	8.6	7.7	USt														
	10 → 95		8.8	8.8	8.8	8.8	8.8	8.4	USt P_{+}														
82	10 → 82		8.8	8.8	8.8	8.8	USt																
	10 → 82		8.8	8.8	8.8	8.8	USt P_{+}																

$$U_{+} = U_{-} - 0.41 \text{ USt max.}$$



		(ft)	56	66	72	82	89	98	105	115	121	131	138	148	154	164	171	180	187	197	203	213	ft
		8.8 USt																					
		4.4 USt																					
213	8 → 67	122 - 125	8.8	8.8	8.2	7.1	6.5	5.8	5.4	4.8	4.5	4.1	3.8	3.5	3.3	3	2.8	2.6	2.45	2.25	2.05	1.95	USt
	8 → 73	124 - 126	8.8	8.8	8.8	7.7	6.9	6.1	5.5	4.9	4.5	4.2	3.9	3.6	3.4	3.1	2.95	2.75	2.6	2.4	2.2	1.95	USt P_{+}
197	8 → 72	131 - 132	8.8	8.8	8.8	7.7	7.1	6.3	5.8	5.2	4.9	4.4	4.2	3.8	3.6	3.3	3.2	2.95	2.85	2.65	USt		
	8 → 77	132 - 135	8.8	8.8	8.8	8.2	7.5	6.6	6	5.3	4.9	4.5	4.3	3.9	3.7	3.4	3.2	3	2.85	2.7	USt P_{+}		
180	8 → 78	139 - 141	8.8	8.8	8.8	8.3	7.6	6.8	6.3	5.7	5.3	4.8	4.5	4.2	3.9	3.6	3.4	3.2	USt				
	8 → 81	140 - 143	8.8	8.8	8.8	8.7	8	7.1	6.5	5.8	5.3	4.8	4.5	4.3	4	3.7	3.5	3.3	USt P_{+}				
164	8 → 82	149 - 151	8.8	8.8	8.8	8.8	8.1	7.3	6.8	6.1	5.7	5.2	4.9	4.4	4.3	4	USt						
	8 → 85	149 - 151	8.8	8.8	8.8	8.8	8.4	7.5	7	6.2	5.8	5.2	4.9	4.5	4.3	4.1	USt P_{+}						
148	8 → 83		8.8	8.8	8.8	8.8	8.3	7.4	6.8	6.2	5.8	5.3	5	4.6	USt								
	8 → 91		8.8	8.8	8.8	8.8	8.8	8.1	7.5	6.8	6.3	5.7	5.3	4.9	USt P_{+}								
131	8 → 85		8.8	8.8	8.8	8.8	8.4	7.5	7	6.3	5.9	5.4	USt										
	8 → 93		8.8	8.8	8.8	8.8	8.8	8.2	7.7	6.9	6.5	6	USt P_{+}										
115	8 → 86		8.8	8.8	8.8	8.8	8.6	7.6	7.1	6.4	USt												
	8 → 94		8.8	8.8	8.8	8.8	8.8	8.4	7.8	7.1	USt P_{+}												
98	8 → 88		8.8	8.8	8.8	8.8	8.7	7.8	USt														
	8 → 96		8.8	8.8	8.8	8.8	8.8	8.5	USt P_{+}														
82	8 → 82		8.8	8.8	8.8	8.8	USt																
	8 → 82		8.8	8.8	8.8	8.8	USt P_{+}																

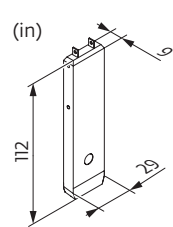
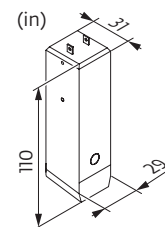
$$U_{+} = U_{-} - 0.13 \text{ USt max.}$$

Jib weight & counter-jib ballast

	(lb) - 33 LVF (+/- 5%)					
				7,937 lb	2,425 lb	(lb)
213 ft	23,896	23,433	24,083	4	4	41,447
197 ft	23,455	22,992	23,642	4	4	41,447
180 ft	22,750	22,353	22,948	4	4	41,447
164 ft	22,088	21,691	22,287	4	4	41,447
148 ft	21,314	20,918	21,513	4	3	39,022
131 ft	20,455	20,058	20,653	4	2	36,597
115 ft	19,396	18,999	19,595	4	1	34,172
98 ft	18,290	17,893	18,488	4	0	31,747
82 ft	17,183	16,786	17,381	3	2	28,660

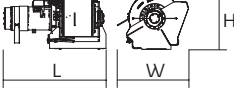
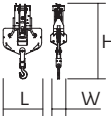
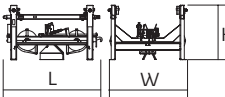
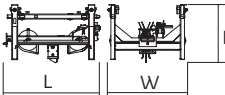
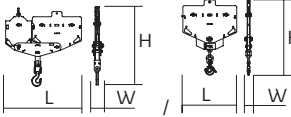
CAU - 7,937 lb

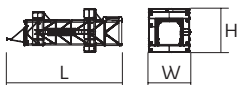
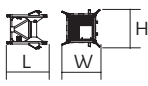
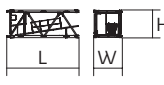
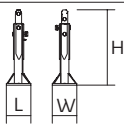
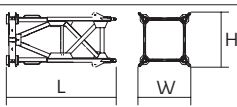
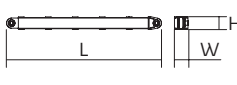
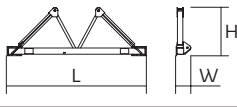
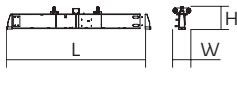
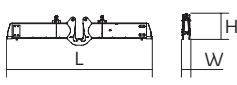
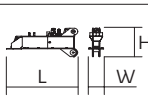
CAV - 2,425 lb



Dimensions and weight

Slewing crane part:  213 ft -  -  33 LVF

Slewing crane part		L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Counter-jib		36.7	5	8.3	13,096
Towerhead + cab	 Ultra View  5.2 ft  6.6 ft	15.4 15.6	7.5 7.5	8.2 8.2	12,507 14,716
Jib section	 ① 33 LVF 6 DVF	35.8	9.6	8.6	9,304
Jib section	 ②	33.7	3.4	7.9	4,156
Jib section	 ③ ④ ⑤ ⑦ ⑧ ⑩	17.2 17 17 17 17 16.9	3.4 3.4 3.4 3.4 3.4 3.4	7.7 7.6 7.6 6.3 6.2 3.9	1,654 1,327 1,327 860 774 529
Jib section	 ⑥ ⑨	17 16.9	3.4 3.4	7.6 6.2	1,058 661
Jib section	 ⑪	16.7	3.4	3.8	441
Hoisting winch (+ rope)	 33 LVF 50 LVF 50 LVF GH	4.5 5 5.3	2.7 3.1 4.4	2.5 3 4.1	2,006 2,646 4,288
Trolley	  8.8 USt	5.9	4.4	3.2	362
Pulley block	  8.8 USt	3.3	1.4	6.6	441
Trolley	  8.8 USt	5.4	4.3	3	362
Trolley	  8.8 USt  4.4 USt	5.2 5.2	4.3 4.2	3 3	353 507
Pulley block	  8.8 USt  4.4 USt	5.4 3.6	0.8 0.5	5.6 4.9	675 695

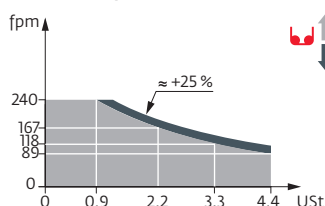
Crane tower			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Telescopic cage		5.2 ft 6.6 ft	36.8 36.7	13.1 14.4	11.7 13.6	14,220 18,188
K40/K40 K60/K60		5.2 ft 6.6 ft	7.3 7.3	6.9 8.1	6.8 8.2	3,208 4,365
K 437B K 437E KM 437E KM 439E K 639B KM 639E		5.2 ft 5.2 ft 5.2 ft 5.2 ft 6.6 ft 6.6 ft	33.5 33.5 33.5 33.5 33.6 33.8	5.5 5.3 5.3 5.3 6.8 6.7	5.3 5.3 5.3 5.3 6.7 6.7	7,606 7,474 7,088 8,448 11,663 10,692
K 437A KMT 437A K 439A KMT 439A KR 649A KRMT 649A K 639A KMT 639A		5.2 ft 5.2 ft 5.2 ft 5.2 ft 6.6 ft 6.6 ft 6.6 ft 6.6 ft	17.1 17.1 17.1 17.1 17.2 17.2 17.2 17.2	5.5 5.5 5.5 5.5 6.9 6.9 6.8 6.8	5.3 5.3 5.3 5.3 6.8 6.8 6.7 6.7	4,079 3,847 4,916 4,696 7,165 6,724 6,184 5,666
K 437C K 639C KRMT 649C		5.2 ft 6.6 ft 6.6 ft	11.3 11.7 11.7	5.5 6.8 6.9	5.3 6.7 6.8	2,998 4,376 5,401
Fixing angles		P 41A P 602A	1.2 2.1	1.2 2.1	3.7 4.2	293 650
Basic mast unit		S 41A V 60A V 63A	11.9 16.4 32.9	6.4 7.9 7.9	6.8 7.9 7.9	6,537 9,674 16,502
Struts		S 41A V 60A V 63A	10.4 14.8 14.8	0.9 1 1.1	0.8 1 1.1	489 919 1,135
Half-bearer		S 41A V 60A V 63A	16.7 22 22	2 2.3 2.3	5.8 7.6 7.6	2,524 3,519 4,079
Cross girder		ZD 4230	21.8	2.7	3.4	4,035
Cross girder		ZD 4230	21.8	1.5	4.4	4,707
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

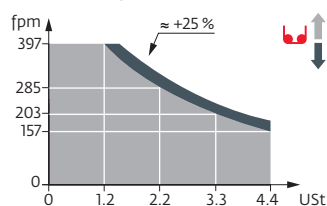
480 V - 60 Hz											hp	kW	
	33 LVF 20 Optima	fpm	89	118	167	240	46	59	89	121	33	22	951 ft
		USt	4.4	3.3	2.2	0.9	8.8	6.6	4.4	2			
	50 LVF 20 Optima	fpm	157	203	285	397	82	108	151	200	50	37	1,191 ft
		USt	4.4	3.3	2.2	1.2	8.8	6.6	4.4	2.8			
	50 LVF 20 GH Optima	fpm	161	210	289	371	82	105	151	187	50	37	2,080 ft
		USt	4.4	3.3	2.2	1.2	8.8	6.6	4.4	2.9			
	6 DVF 4 Optima	fpm	0 → 262 (8.8 USt) 0 → 328 (2.2 USt)								5.5	4	
	RVF 162 Optima+	rpm	0 → 0.8								2 x 7.5	2 x 5.5	
													

	IEC 60204-32		kVA
480 V (+6% -10%) 60 Hz		33 LVF: 45 → 32 kVA 50 LVF / 50 LVF GH: 58 → 38 kVA	

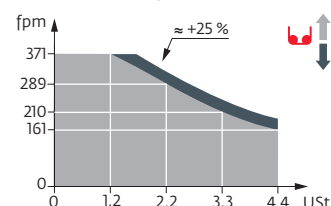
33 LVF 20 Optima



50 LVF 20 Optima



50 LVF 20 GH 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 curve		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.



Americas
Manitowoc, Wisconsin, USA
 Tel: +1 920 684 6621
 Fax: +1 920 683 6277

Shady Grove, Pennsylvania, USA
 Tel: +1 717 597 8121
 Fax: +1 717 597 4062

Europe, Middle East, Africa
Dardilly, France
 Tel: +33 (0)4 72 18 20 20
 Fax: +33 (0)4 72 18 20 00

China
Shanghai, China
 Tel: +86 21 6457 0066
 Fax: +86 21 6457 4955

Greater Asia-Pacific
Singapore
 Tel: +65 6264 1188
 Fax: +65 6862 4040

www.manitowoccranes.com

©2016 All Rights Reserved – Manitowoc Cranes, LLC and its affiliates.

Ref. 02D_ASCEUst_MDT219J8_2015_39-2