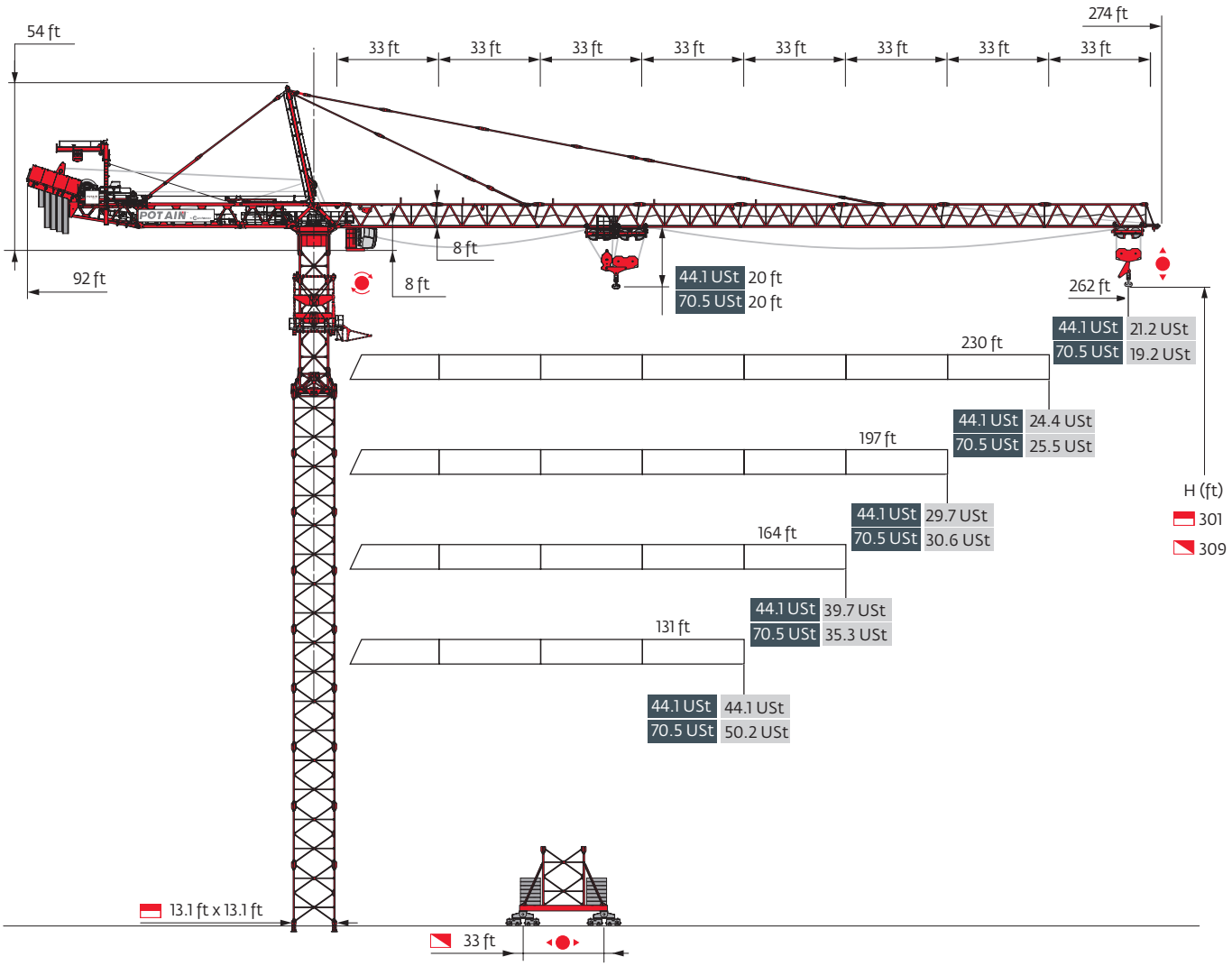
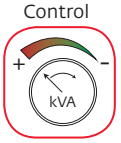
POTAIN®
by Manitowoc

MD 1600



Power Control



Top Tracing II

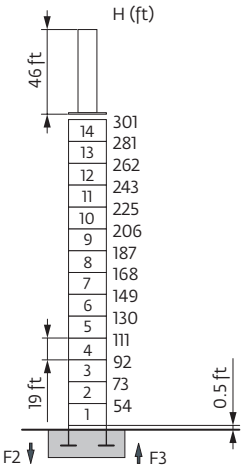
ASCE 7-10

Values have been rounded.

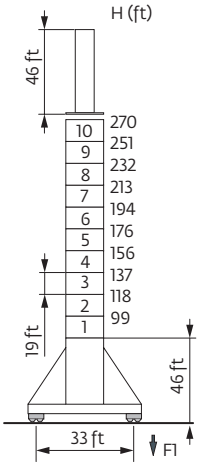
Mast - Reactions

13.1 ft

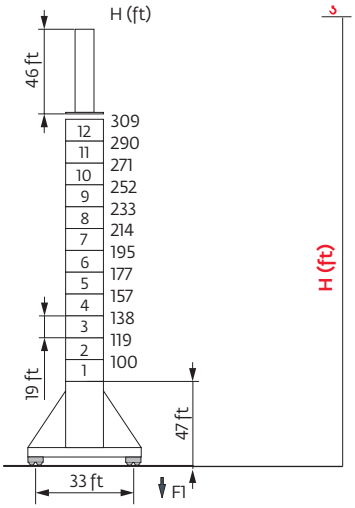
131 ft → 262 ft



PA 950	
F2	● 454 USt ■ 352 USt
F3	● 226 USt ■ 159 USt



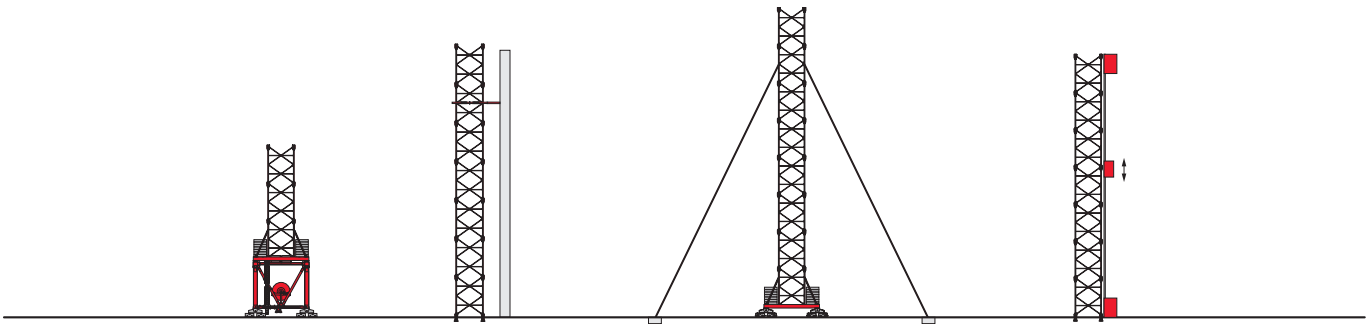
JA 950	
F1	● 297 USt ■ 219 USt



JB 950	
F1	● 312 USt ■ 268 USt

For any special request, please consult us.

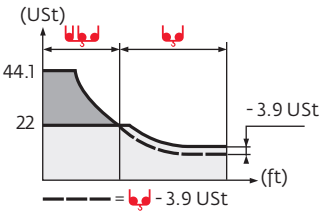
Mounting possibilities



Load curves

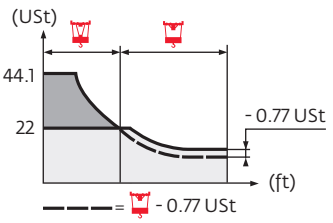
44.1 USt

262 ft	21 ▶	127	148	164	180	197	213	221	254	**262**	ft		
		44.1	36.8	32.4	28.8	25.7	23.1	22	22	21.2	USt		
230 ft	21 ▶	141	148	164	180	197	213	**230**	ft				
		44.1	41.9	36.9	33	29.7	26.8	24.4	USt				
197 ft	21 ▶	141	148	164	180	**197**	ft						
		44.1	41.9	37	33	29.7	USt						
131 ft/164 ft	21 ▶	**131**	150	**164**	ft								
		44.1	44.1	39.7	USt								



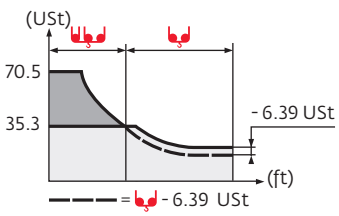
44.1 USt

262 ft	19 ▶	124	131	148	164	180	197	212	218	230	246	**262**	ft
		44.1	41.2	35.6	31.2	27.6	24.5	22	22	20.4	18.5	16.9	USt
230 ft	19 ▶	139	148	164	180	197	213	**230**	ft				
		44.1	40.9	35.9	31.9	28.4	25.6	23.1	USt				
197 ft	19 ▶	139	148	164	180	**197**	ft						
		44.1	41.2	36.2	32.1	28.7	USt						
131 ft/164 ft	19 ▶	**131**	147	148	**164**	ft							
		44.1	44.1	43.9	38.6	USt							



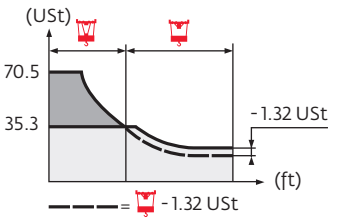
70.5 USt

262 ft	21 ▶	79	82	98	115	131	138	159	164	180	197	213	230	246	**262**	ft
		70.5	67.7	54.5	44.9	37.8	35.3	35.3	34.2	30.5	27.4	24.9	22.7	20.8	19.2	USt
230 ft	21 ▶	87	98	115	131	148	151	175	180	197	213	**230**	ft			
		70.5	60.7	50.4	42.5	36.5	35.3	35.3	34	30.6	27.9	25.5	USt			
197 ft	21 ▶	87	98	115	131	148	151	175	180	**197**	ft					
		70.5	60.7	50.3	42.5	36.5	35.3	35.3	34	30.6	USt					
164 ft	21 ▶	94	98	115	131	148	**164**	ft								
		70.5	66.8	55.6	47.1	40.6	35.3	USt								
131 ft	21 ▶	99	115	**131**	ft											
		70.5	59.1	50.2	USt											



70.5 USt

262 ft	19 ▶	82	98	115	131	145	149	164	180	197	213	230	246	**262**	ft	
		70.5	56.9	47.2	40	35.3	35.3	31.2	27.4	24.4	21.8	19.6	17.6	16	USt	
230 ft	19 ▶	89	98	115	131	148	158	163	164	180	197	213	**230**	ft		
		70.5	63.1	52.6	44.6	38.6	35.3	35.3	34.8	30.9	27.6	24.7	22.3	USt		
197 ft	19 ▶	90	98	115	131	148	158	163	164	180	**197**	ft				
		70.5	63.2	52.6	44.8	38.6	35.3	35.3	34.9	30.9	27.6	USt				
164 ft	19 ▶	93	98	115	131	148	**164**	ft								
		70.5	65.8	54.9	46.7	40.3	35.3	USt								
131 ft	19 ▶	93	98	115	**131**	ft										
		70.5	66	55	46.8	USt										



Mechanisms

480 V - 60 Hz														hp	kW	
	320 LVF 100 Optima	44.1 USt	ft/min	197	256	367	505	531	98	128	184	253	266	320	240	1,745 ft
			USt	22	16.5	11	7.5	6.4	44.1	33.1	22	15.7	13.4			
	320 LVF 160 Optima	70.5 USt	ft/min	121	161	230	361	351	62	79	115	180	177	320	240	2,103 ft
			USt	35.3	26.5	17.6	8.8	9.4	70.5	52.9	35.3	17.6	19.3			
	15 DVF 16	44.1 USt	ft/min	0 → 108 (44.1 USt) 0 → 164 (22 USt) 0 → 220 (11 USt) 0 → 328 (2.8 USt)										15	11	
	25 DVF 30	70.5 USt	ft/min	0 → 82 (70.5 USt) 0 → 164 (35.3 USt) 0 → 295 (17.6 USt) 0 → 377 (8.8 USt)										25	18.5	
	RVF 194 Optima+		rpm	0 → 0.6										4 x 15	4 x 11	

IEC 60204-32	kVA
480 V (+6% -10%) 60 Hz	320 LVF / 15 DVF: 303 → 175 kVA 320 LVF / 25 DVF: 311 → 183 kVA

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.

- Standard equipment
- Options
- Reactions in service
- Reactions out of service
- Hoisting
- Trolleying
- Slewing
- Travelling
- Required power
- Power Control Function: winch speeds adapted to the available power

Ref. 02D_ASCEUSt_MD1600_2017_49-1