



Grove Manitowoc National Crane Potain

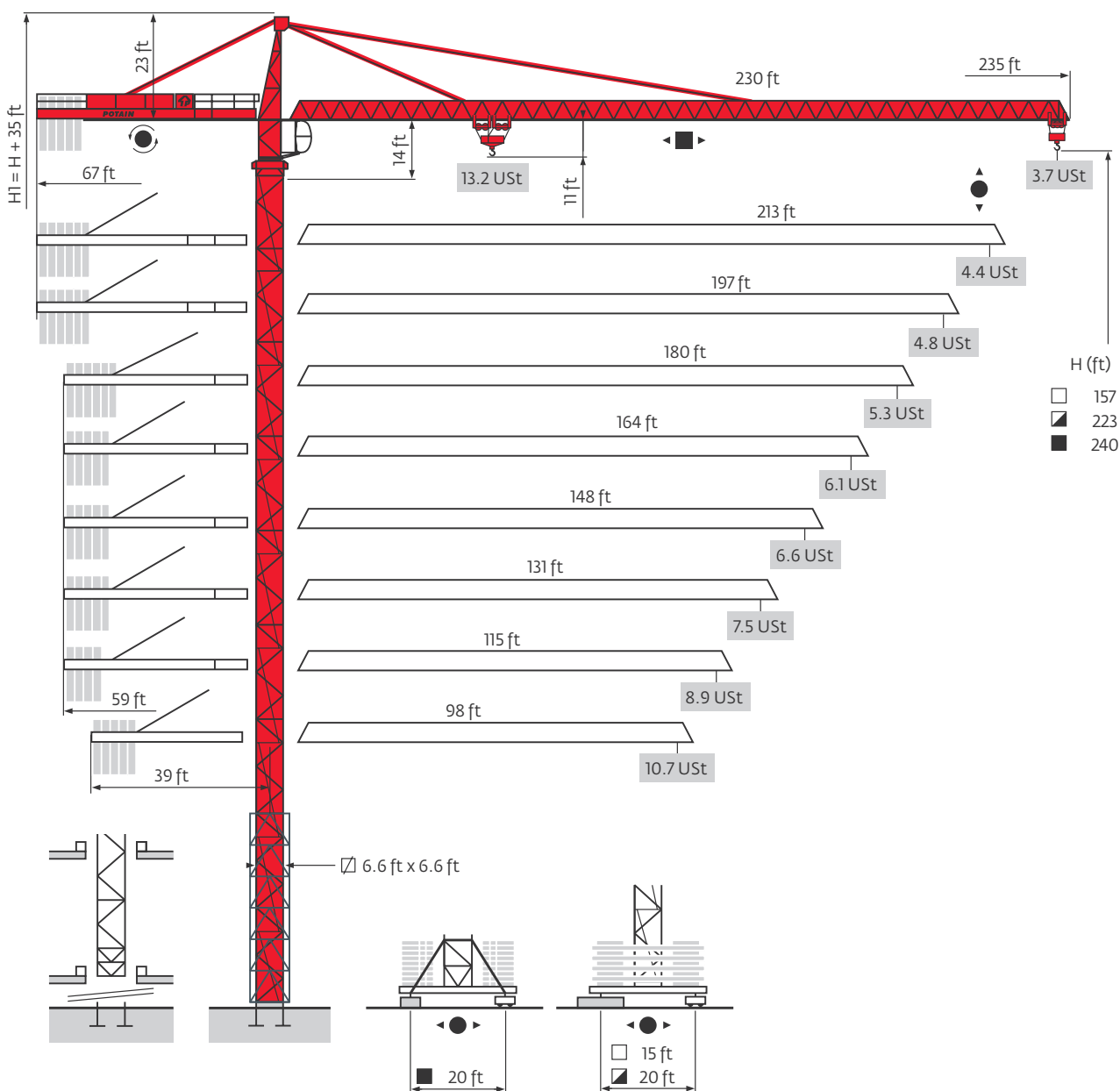


Potain MD 310 C

Data Sheets

FEM 1.001-A3

MD 310 C K12

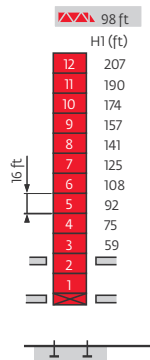
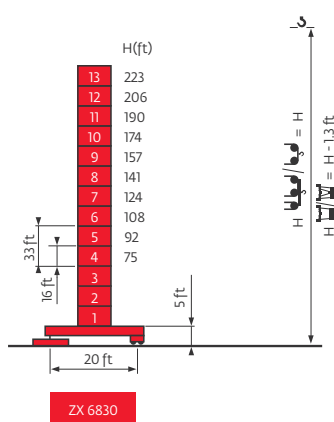
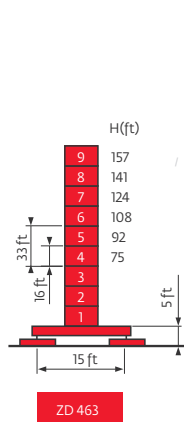
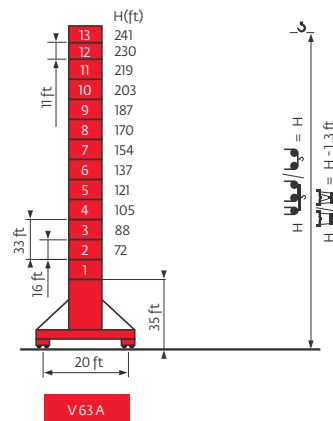
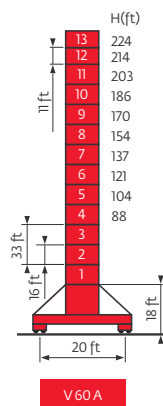
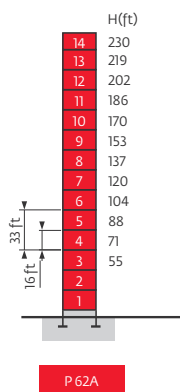
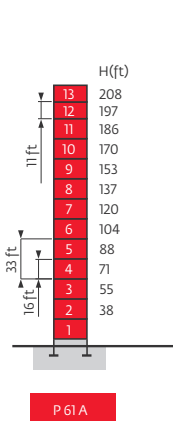




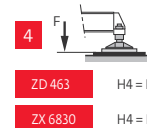
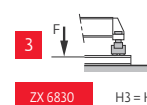
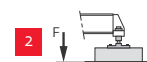
Mast

6.6 ft

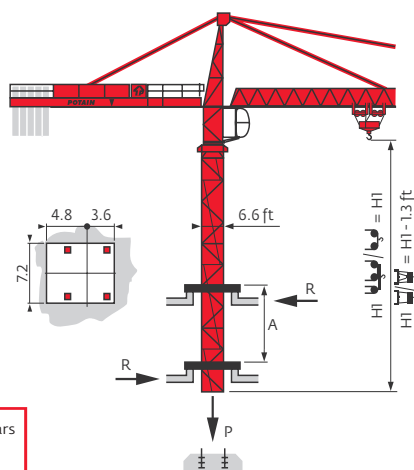
98 ft → 230 ft



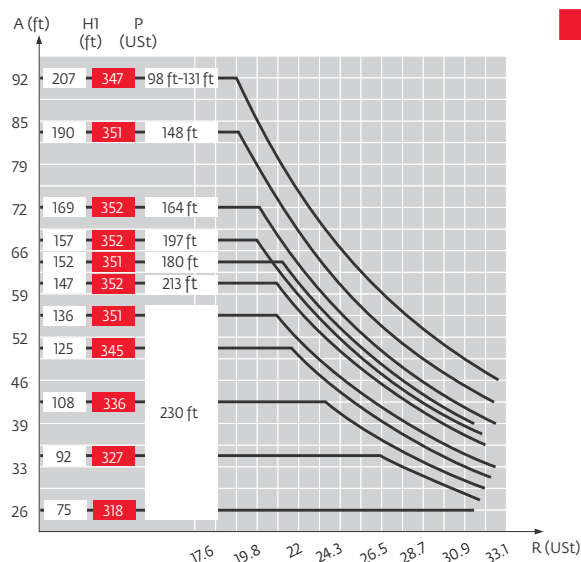
	H1 (ft)	16 ft	11 ft
115 ft	207	12	-
131 ft	207	12	-
148 ft	190	11	-
164 ft	169	9	1
180 ft	152	8	1
197 ft	157	9	2
213 ft	147	7	2
230 ft	136	7	1



Climbing crane



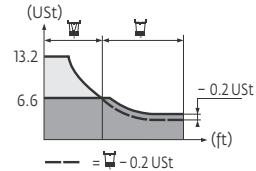
- A** Distance between collars
- H1** Crane height
- P** Crane weight (in service)
- R** Horizontal reaction
- See climbing crane



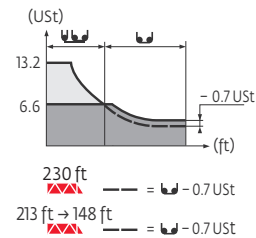


Load charts

230 ft	9	73	82	89	98	105	115	121	131	132	135	138	148	154	164	171	180	187	197	203	213	220	230	ft
		13.2	11.6	10.6	9.4	8.7	7.8	7.3	6.6	6.6	6.6	6.5	6	5.6	5.2	5	4.6	4.4	4.1	4	3.7	3.5	3.4	US
213 ft	9	75	82	89	98	105	115	121	131	135	139	148	154	164	171	180	187	197	203	213	ft			
		13.2	12	11	9.7	9	8	7.6	6.8	6.6	6.6	6.2	5.8	5.4	5.2	4.7	4.6	4.3	4.1	3.9	USt			
197 ft	9	77	82	89	98	105	115	121	131	138	138	142	148	154	164	171	180	187	197	ft				
		13.2	12.3	11.2	9.9	9.3	8.3	7.7	7.1	6.6	6.6	6.6	6.3	6	5.5	5.3	5	4.7	4.4	USt				
180 ft	9	77	82	89	98	105	115	121	131	138	140	144	148	154	164	171	180	ft						
		13.2	12.3	11.4	10	9.4	8.4	7.8	7.2	6.7	6.6	6.6	6.4	6.1	5.6	5.4	5	USt						
164 ft	9	79	82	89	98	105	115	121	131	138	142	146	148	154	164	ft								
		13.2	12.7	11.6	10.3	9.5	8.6	8	7.3	6.9	6.6	6.6	6.5	6.2	5.8	USt								
148 ft	9	80	82	89	98	105	115	121	131	138	144	148	ft											
		13.2	12.8	11.7	10.4	9.6	8.7	8.2	7.4	6.9	6.6	6.6	USt											
131 ft	9	81	82	89	98	105	115	121	131	ft														
		13.2	13.1	12	10.7	9.9	8.9	8.4	7.6	USt														
115 ft	9	82	89	98	105	115	ft																	
		13.2	12.1	10.7	9.9	9	USt																	
98 ft	9	83	89	98	ft																			
		13.2	12.2	10.8	USt																			



230 ft	10	72	72	82	89	98	105	115	121	128	140	148	154	164	171	180	187	197	203	213	220	230	ft
		13.2	13.2	11.4	10.4	9.1	8.5	7.6	7.1	6.6	6.6	6.3	6	5.5	5.3	5	4.7	4.4	4.3	4.1	3.9	3.7	USt
213 ft	10	76	82	89	98	105	115	121	131	137	149	154	164	171	180	187	197	203	213	ft			
		13.2	12.1	11.1	9.8	9.1	8.2	7.6	6.9	6.6	6.6	6.4	6	5.6	5.3	5.1	4.7	4.6	4.4	USt			
197 ft	10	76	82	89	98	105	115	121	131	137	149	154	164	171	180	187	197	ft					
		13.2	12.1	11.1	9.8	9.1	8.2	7.7	6.9	6.6	6.6	6.4	6	5.6	5.3	5.1	4.8	USt					
180 ft	10	76	82	89	98	105	115	121	131	137	149	154	164	171	180	ft							
		13.2	12.1	11.1	9.8	9.1	8.2	7.7	6.9	6.6	6.6	6.4	6	5.6	5.3	USt							
164 ft	10	78	82	89	98	105	115	121	131	138	140	152	154	164	ft								
		13.2	12.5	11.4	10	9.4	8.4	7.8	7.2	6.7	6.6	6.6	6.5	6.1	USt								
148 ft	10	75	82	89	98	105	115	121	131	136	148	ft											
		13.2	12	11	9.7	9	8.2	7.6	6.9	6.6	6.6	USt											
131 ft	10	81	82	89	98	105	115	121	131	ft													
		13.2	13	11.9	10.6	9.8	8.8	8.3	7.5	USt													
115 ft	10	81	82	89	98	105	115	ft															
		13.2	13.1	12	10.6	9.8	8.9	USt															
98 ft	10	82	89	98	ft																		
		13.2	12.1	10.7	USt																		



Counter-jib ballast

		10,141 lb - 9259 lb - 5071 lb					9259 lb - 1543 lb		
		50LVF30	75LVF30	100LVF30	150LCC30		75LVF30	100LVF30	150LCC30
		(lb)					(lb)		
230 ft	67 ft	56,438	55,556	54,013	51,368	67 ft	55,556	54,013	50,927
213 ft	67 ft	53,131	52,250	51,368	48,061	67 ft	52,470	50,927	47,840
197 ft	67 ft	49,824	48,943	48,061	46,297	67 ft	49,384	47,840	46,297
180 ft	59 ft	57,320	56,438	55,777	52,250	59 ft	55,556	54,013	52,470
164 ft	59 ft	52,250	51,368	49,824	48,061	59 ft	50,927	49,384	47,840
148 ft	59 ft	44,754	43,872	42,990	40,786	59 ft	43,211	41,667	40,124
131 ft	59 ft	38,801	37,920	37,038	33,731	59 ft	37,038	35,494	33,951
115 ft	59 ft	33,731	32,849	30,424	28,660	59 ft	30,865	30,865	27,778
98 ft	39 ft	48,061	47,179	46,297	42,990	39 ft	46,297	44,754	43,211

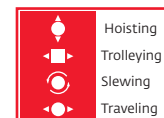
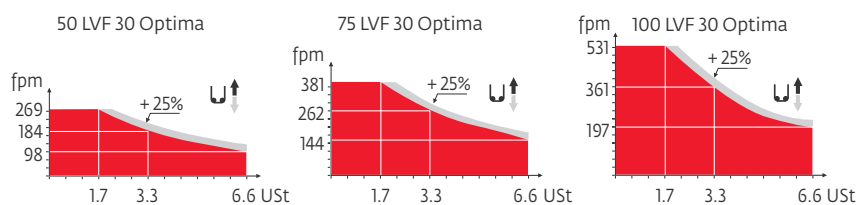
Base ballast

6.6 ft	V60 A	 H (ft)	224	214	203	186	170	154	137	121	104	88		
			 (USt)	145.5	132.3	105.8	79.4	79.4	79.4	66.1	66.1	66.1	66.1	
6.6 ft	V63 A	 H (ft)	241	230	219	203	187	170	154	137	121	105	88	72
			 (USt)	198.4	172	145.5	119	79.4	79.4	79.4	79.4	66.1	66.1	66.1
6.6 ft	ZD 463	 H (ft)	157	141	124	108	92	75	59	42				
			 (USt)	126.8	126.8	121.3	121.3	115.7	115.7	115.7	115.7			
6.6 ft	ZX 6830	 H (ft)	229	206	190	174	157	141	124	108	92	75		
			 (USt)	144.4	111.3	78.3	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2



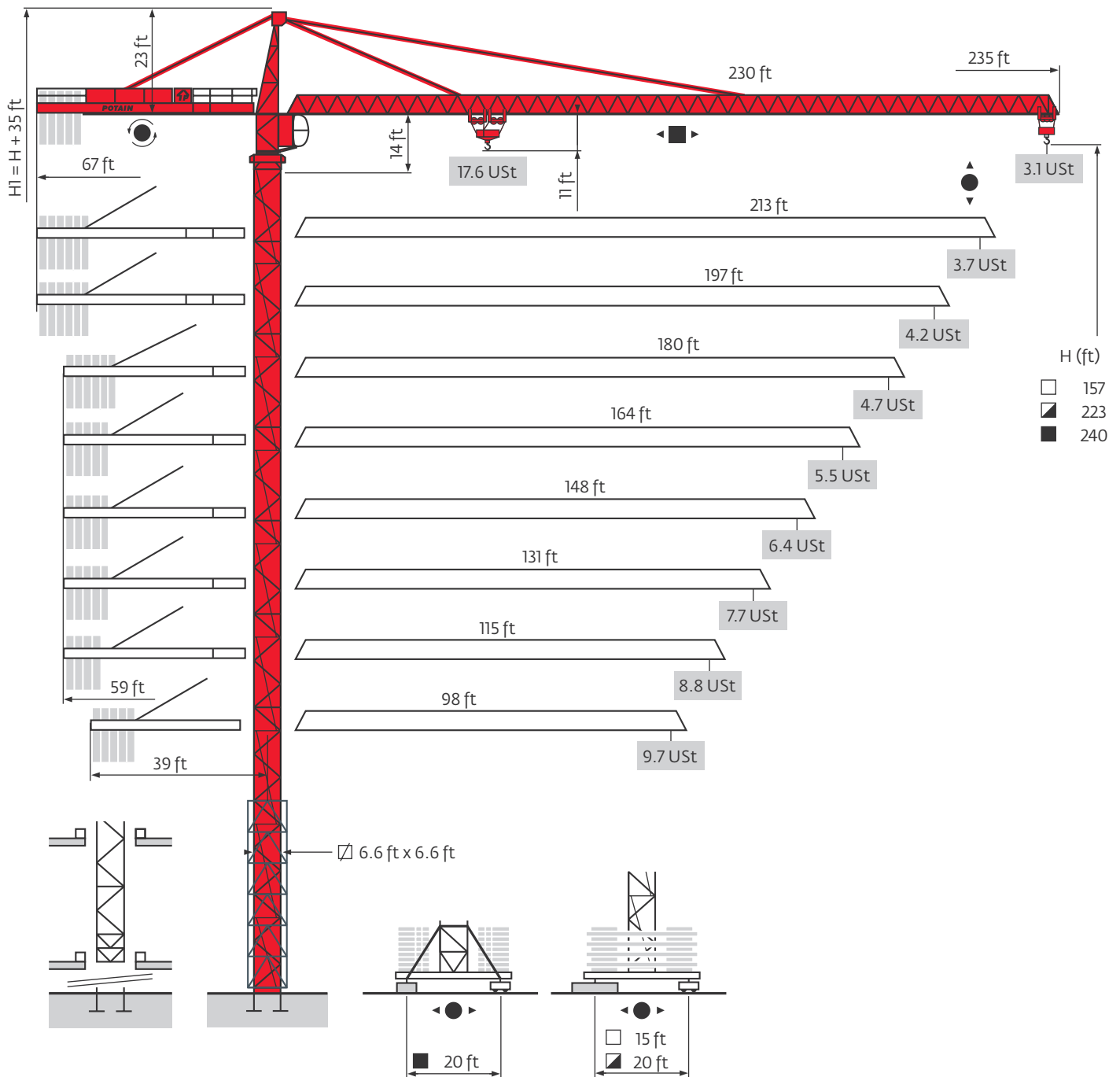
Mechanisms

																	hp	kW										
	50 LVF 30 Optima	fpm	9 → 33 → 98 → 131 → 184 → 269							4 → 16 → 49 → 66 → 92 → 135							50	37	1106 ft									
		USt	6.6	6.6	6.6	5	3.3	1.7	13.2	13.2	13.2	9.9	6.6	3.3														
	75 LVF 30 Optima	fpm	12 → 144 → 184 → 262 → 381							6 → 72 → 92 → 131 → 190							75	55	2513 ft									
		USt	6.6			5	3.3	1.7	13.2			9.9	6.6	3.3														
	100 LVF 30 Optima	fpm	0 → 197 → 262 → 361 → 531							0 → 98 → 131 → 180 → 266							100	75	3087 ft									
		USt	6.6			5	3.3	1.7	13.2			9.9	6.6	3.3														
	150 LCC 30	fpm	290 → 348 → 433 → 577 → 696							145 → 174 → 217 → 289 → 348							150	110	2497 ft									
		USt	6.6	5	3.3	1.7	0.8	13.2	9.9	6.6	3.3	1.7																
	6 DVF 4	fpm	0 → 164 (13.2 USt) 0 → 328 (6.6 USt) 0 → 394 (3.3 USt)																							5.5	4	
	RVF162 Optima +	rpm	0 → 0.7																							2 x 7.5	2 x 5.5	
	V 60 A RT 544 A1 2V R ≥ 13 m	fpm	52 - 105																							4 x 8.4	4 x 6.2	
	V 63 A																											
	ZX 6830	RT 664 A2B 2V	fpm	62 - 125																							6 x 8.4	
CEI 38										kVA																		
480 V (+6% -10%) 60 Hz										50 LVF : 75 kVA 75 LVF : 100 kVA 100 LVF : 125 kVA 150 LCC : 175 kVA																		





MD 310 C K16

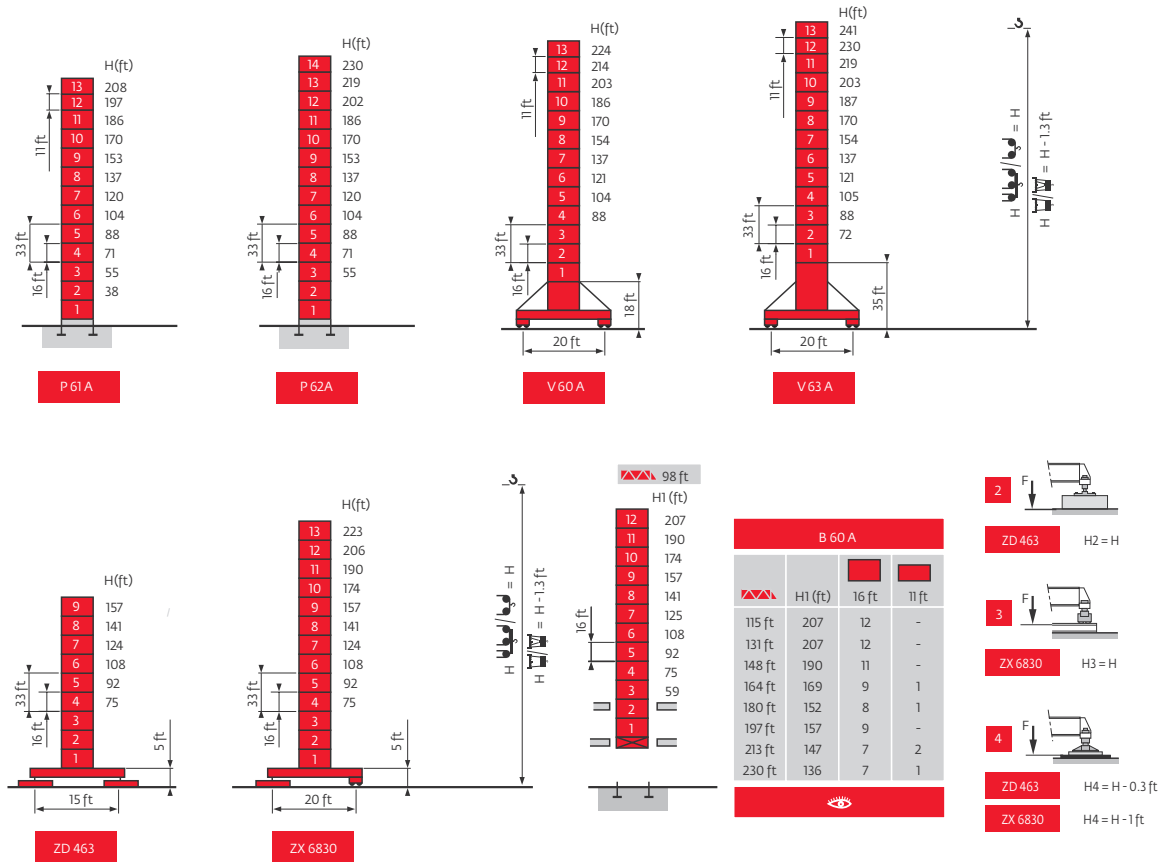




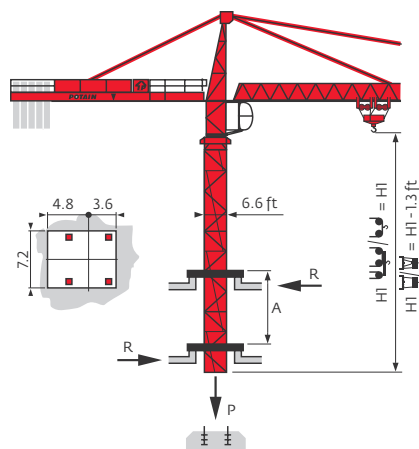
Mast

6.6 ft

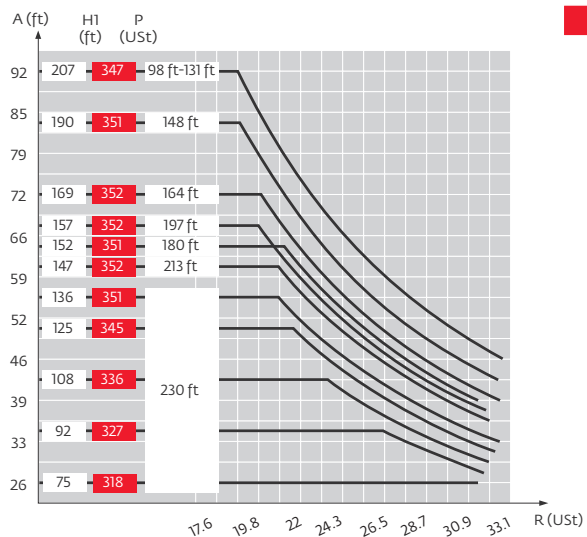
98 ft → 230 ft



Climbing crane



A	Distance between collars
H1	Crane height
P	Crane weight (in service)
R	Horizontal reaction
	See climbing crane

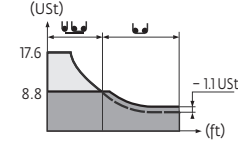


Load charts

230 ft	10	▶		103	105	115	121	131	138	148	154	164	171	180	187	197	203	213	220	230	ft
▶▶▶				8.8	8.7	7.8	7.3	6.6	6.2	5.7	5.4	5	4.7	4.4	4.2	3.9	3.7	3.5	3.3	3.1	USt
213 ft	10	▶			109	115	121	131	138	148	154	164	171	180	187	197	203	213		ft	
▶▶▶					8.8	8.3	7.7	7.1	6.6	6.1	5.7	5.3	5.1	4.7	4.5	4.2	4	3.7		USt	
197 ft	10	▶			109	115	121	131	138	148	154	164	171	180	187	197		ft			
▶▶▶					8.8	8.3	7.7	7.1	6.6	6.1	5.7	5.3	5.1	4.7	4.5	4.2		USt			
180 ft	10	▶			110	115	121	131	138	148	154	164	171	180		ft					
▶▶▶					8.8	8.4	7.8	7.2	6.7	6.2	5.8	5.4	5.2	4.8		USt					
164 ft	10	▶			112	115	121	131	138	148	154	164		ft							
▶▶▶					8.8	8.6	8	7.3	6.9	6.4	6.1	5.6		USt							
148 ft	10	▶			115	115	121	131	138	148		ft									
▶▶▶					8.8	8.8	8.3	7.5	7.1	6.5		USt									
131 ft	10	▶				118	121	131		ft											
▶▶▶						8.8	8.6	7.8		USt											
115 ft	10	▶				115		ft													
▶▶▶						8.8		USt													
98 ft	10	▶				98		ft													
▶▶▶						8.8		USt													

	230 ft	10	▶	53	56	66	72	82	89	93	103	105	115	121	131	138	148	154	164	171	180	187	197	203	213	220	230	ft	
					17.6	16.9	13.8	12.2	10.5	9.5	8.8	8.8	8.7	7.8	7.3	6.6	6.2	5.7	5.4	5	4.7	4.4	4.2	3.9	3.7	3.5	3.3	3.1	USt
	213 ft	10	▶		56	66	72	82	89	98	109	115	121	131	138	148	154	164	171	180	187	197	203	213				ft	
					17.6	14.7	13	11.1	10	8.8	8.8	8.3	7.7	7.1	6.6	6.1	5.7	5.3	5.1	4.7	4.5	4.2	4	3.7				USt	
	197 ft	10	▶		56	66	72	82	89	98	109	115	121	131	138	148	154	164	171	180	187	197						ft	
					17.6	14.7	13	11.1	10	8.8	8.8	8.3	7.7	7.1	6.6	6.1	5.7	5.3	5.1	4.7	4.5	4.2						USt	
	180 ft	10	▶		56	66	72	82	89	98	109	115	121	131	138	148	154	164	171	180								ft	
					17.6	14.7	13	11.1	10	8.8	8.8	8.3	7.7	7.1	6.6	6.1	5.7	5.3	5.1	4.7								USt	
	164 ft	10	▶		57	66	72	82	89	98	100	111	115	121	131	138	148	154	164									ft	
					17.6	15	13.3	11.4	10.4	9	8.8	8.8	8.5	7.9	7.2	6.8	6.3	6	5.5									USt	
	148 ft	10	▶		58	66	72	82	89	98	102	113	115	121	131	138	148											ft	
					17.6	15.3	13.7	11.7	10.6	9.3	8.8	8.8	8.7	8.2	7.4	6.9	6.4											USt	
	131 ft	10	▶		61	66	72	82	89	98	105	106	117	121	131													ft	
					17.6	16.1	14.3	12.2	11.1	9.7	8.9	8.8	8.8	8.5	7.7													USt	
	115 ft	10	▶		59	66	72	82	89	98	104	115																ft	
					17.6	15.7	13.9	11.9	10.8	9.5	8.8	8.8																USt	
	98 ft	10	▶		61	66	72	82	89	98																		ft	
					17.6	16.2	14.3	12.2	11.1	9.7																		USt	

(USt)



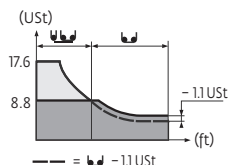
17.6

8.8

-1.1 USt

(ft)

--- =  -1.1 USt



Counter-jib ballast

10,141 lb - 9259 lb - 5071 lb				
		75LVF40	100LVF40	150LCC40
		 (lb)		
230 ft	67 ft	56,438	54,013	51,368
213 ft	67 ft	53,131	51,368	48,061
197 ft	67 ft	49,824	48,061	46,297
180 ft	59 ft	57,320	55,777	52,250
164 ft	59 ft	52,250	49,824	48,061
148 ft	59 ft	44,754	42,990	40,565
131 ft	59 ft	38,801	37,038	33,731
115 ft	59 ft	33,731	30,424	28,660
98 ft	39 ft	48,061	46,297	42,990

9259 lb - 1543 lb				
		75LVF40	100LVF40	150LCC40
		 (lb)		
67 ft	55,556	54,013	50,927	47,840
67 ft	52,470	50,927	47,840	44,754
67 ft	49,384	47,840	44,754	41,667
59 ft	55,556	54,013	52,470	49,384
59 ft	50,927	49,384	47,840	44,754
59 ft	44,754	41,667	40,565	37,038
59 ft	38,801	35,494	33,951	30,424
59 ft	32,408	30,865	27,778	24,645
39 ft	47,840	44,754	43,211	40,565

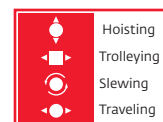
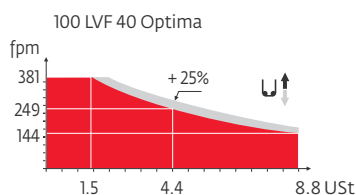
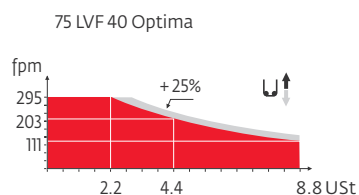
Base ballast

 V 60 A	H (ft)	224	214	203	186	170	154	137	121	104	88		
	 (USt)	145.5	132.3	105.8	79.4	79.4	79.4	66.1	66.1	66.1	66.1		
 V 63 A	H (ft)	241	230	219	203	187	170	154	137	121	105	88	72
	 (USt)	198.4	172	145.5	119	79.4	79.4	79.4	79.4	66.1	66.1	66.1	66.1
 ZD 463	H (ft)	157	141	124	108	92	75	59	42				
	 (USt)	126.8	126.8	121.3	121.3	115.7	115.7	115.7	115.7				
 ZX 6830	H (ft)	229	206	190	174	157	141	124	108	92	75		
	 (USt)	144.4	111.3	78.3	67.2	67.2	67.2	67.2	67.2	67.2	67.2		



Mechanisms

																			hp	kW		
	75 LVF 40 Optima	fpm	0 - 111 - 144 - 203 - 295								0 - 55 - 72 - 102 - 148								75	55	2090 ft	
	USt	8.8				6.6 4.4 2.2				17.6				13.2 8.8 4.4								
	100 LVF 40 Optima	fpm	0 - 144 - 184 - 249 - 381								0 - 72 - 92 - 112 - 190								100	75	3727 ft	
USt	8.8				6.6 4.4 1.5				17.6				13.2 8.8 3.1									
	150 LCC 40	fpm	230 - 276 - 348 - 459 - 551								115 - 138 - 174 - 230 - 176								150	110	3583 ft	
		USt	8.8 6.6				4.4 2.2 1.1				17.6 13.2				8.8 4.4 2.2							
	6 DVF 6	fpm	0 - 134 (17.6 USt) 0 - 276 (8.8 USt) 0 - 328 (4.4 USt)																5.5	4		
	RVF 162 Optima +	rpm	0 - 0.7																2 x 7.5	2 x 5.5		
	V 60 A RT 544 A1 2V R ≥ 13 m	fpm	52 - 105																4 x 8.4	4 x 6.2		
	V 63 A																					
	ZX 6830	RT 664 A2B 2V	fpm	62 - 125																6 x 8.4	6 x 6.2	
CEI 38				IEC 38								kVA										
480 V (+6% -10%) 60 Hz				75 LVF : 100 kVA 100 LVF : 125 kVA 150 LCC : 175 kVA																		



Constant improvement and engineering progress make it necessary that we reserve the right to make specification, equipment and price changes without notice. Illustrations shown may include optional equipment and accessories, and may not include all standard equipment.



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