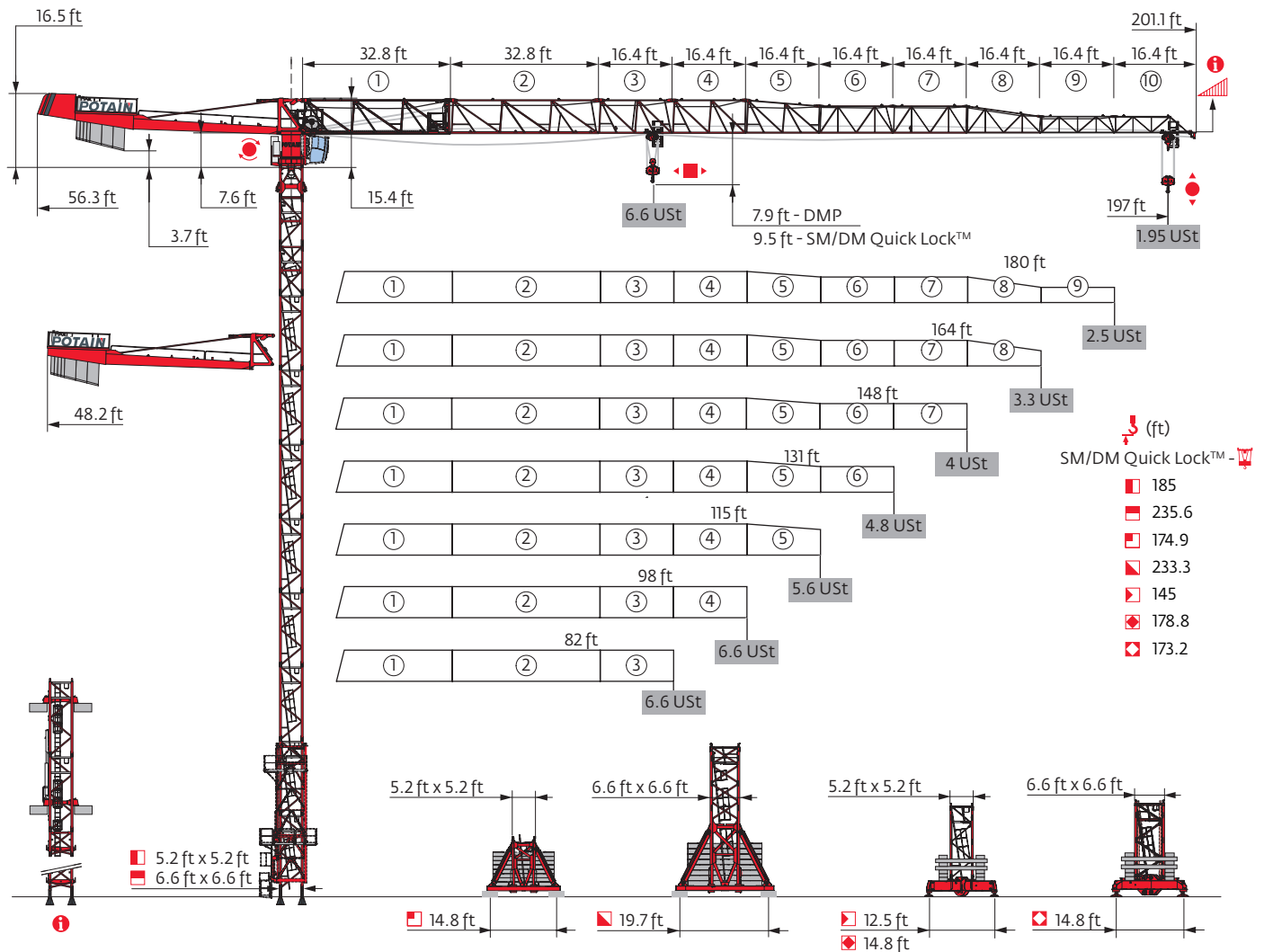


MDT 159

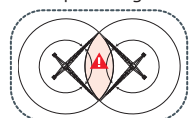
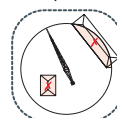
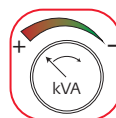


Potain Plus

Power Control

Top Site

Top Tracing 3



Mast - Reactions

5.2 ft City - P 41A									
MAJ (ft)	82	98	115	131	148	164	180	197	
(ft)	185	174.2	174.2	168.6	163.4	163.4	163.4	163.4	
/P+ (ft)	185	174.2	174.2	168.6	163.4	163.4	163.4	163.4	
	10.9 ft	2	1	1	2	0	0	0	0
	16.4 ft	10	10	10	9	10	10	10	10
F2 (USt)	●	126	126	125	123	121	122	125	127
	■	207	174	175	167	153	161	167	173
F3 (USt)	●	100	99	97	91	89	89	93	95
	■	181	147	147	138	124	132	138	144

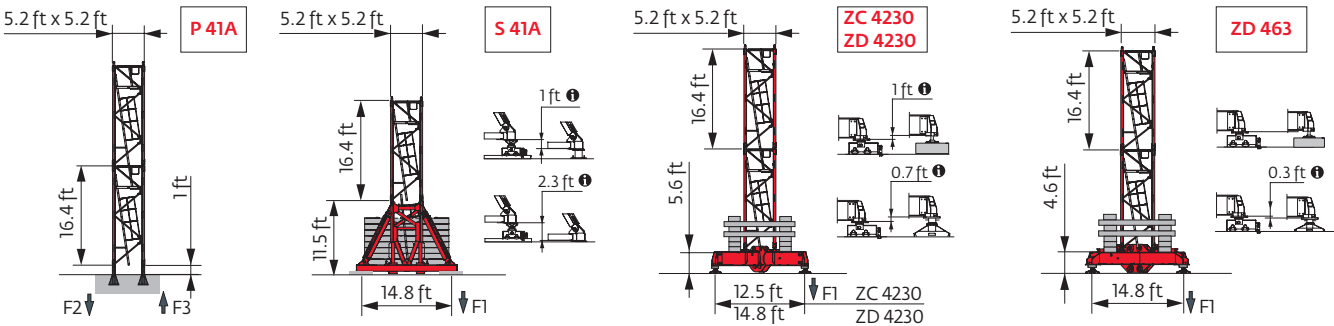
5.2 ft City - ZD 4230 -									
MAJ (ft)	82	98	115	131	148	164	180	197	
(ft)	161.4	155.8	155.8	150.3	150.3	150.3	150.3	150.3	
/P+ (ft)	161.4	155.8	155.8	150.3	150.3	150.3	150.3	150.3	
	10.9 ft	1	2	2	0	0	0	0	0
	16.4 ft	9	8	8	9	9	9	9	9
F1 (USt)	●	69	70	71	70	71	72	73	
	■	86	75	75	71	71	74	77	81

5.2 ft - S 41A -									
MAJ (ft)	82	98	115	131	148	164	180	197	
(ft)	174.9	174.9	174.9	169.3	169.3	169.3	163.7	163.7	
/P+ (ft)	174.9	174.9	174.9	169.3	169.3	169.3	163.7	163.7	
	6.6 ft	1	1	1	1	1	1	1	
	10.9 ft	1	1	1	2	2	2	0	0
	16.4 ft	9	9	9	8	8	8	9	9
F1 (USt)	●	83	82	83	81	82	82	82	
	■	111	105	106	100	100	106	101	105

5.2 ft City - ZC 4230 -									
MAJ (ft)	82	98	115	131	148	164	180	197	
(ft)	145	133.9	139.4	133.9	133.9	133.9	133.9	133.9	
/P+ (ft)	145	133.9	139.4	133.9	133.9	133.9	133.9	133.9	
	10.9 ft	1	0	2	0	0	0	0	0
	16.4 ft	8	8	7	8	8	8	8	8
F1 (USt)	●	73	74	76	75	76	76	77	78
	■	81	68	73	69	70	73	75	78

5.2 ft - P 41A									
MAJ (ft)	82	98	115	131	148	164	180	197	
(ft)	180.8	170	170	164.4	164.4	164.4	158.8	158.8	
/P+ (ft)	180.8	170	170	164.4	164.4	164.4	158.8	158.8	
	6.6 ft	1	1	1	1	1	1	1	
	10.9 ft	1	0	0	1	1	1	2	2
	16.4 ft	10	10	10	9	9	9	8	8
F2 (USt)	●	126	125	124	122	124	125	125	127
	■	209	176	176	168	169	178	174	181
F3 (USt)	●	99	98	96	90	92	93	93	95
	■	182	149	149	140	140	148	145	151

5.2 ft - ZD 463 -									
MAJ (ft)	82	98	115	131	148	164	180	197	
(ft)	178.8	173.2	173.2	168	162.4	162.4	162.4	162.4	
/P+ (ft)	178.8	173.2	173.2	168	162.4	162.4	162.4	162.4	
	6.6 ft	1	1	1	1	1	1	1	
	10.9 ft	2	0	0	1	2	2	2	2
	16.4 ft	9	10	10	9	8	8	8	8
F1 (USt)	●	87	81	81	79	79	80	82	83
	■	120	103	103	98	93	98	102	106

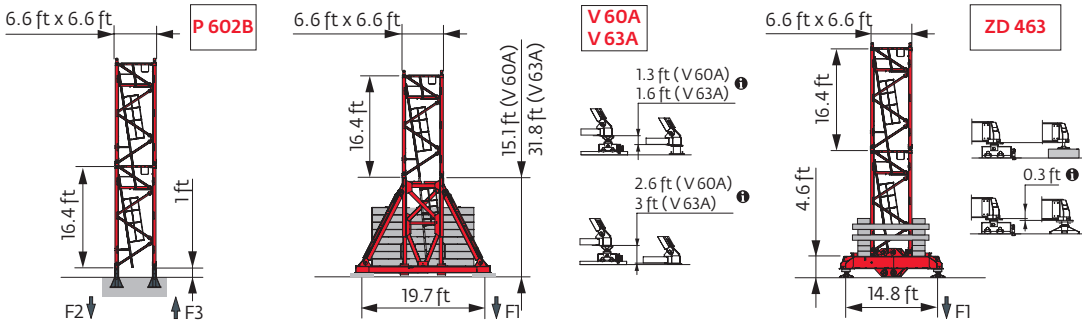


6.6 ft - P 602B									
ΔΔΔ (ft)	82	98	115	131	148	164	180	197	
↓ (ft)	235.6	235.6	235.6	235.6	235.6	235.6	230	230	
↓/P ₊ (ft)	235.6	235.6	235.6	235.6	235.6	235.6	230	230	
6.6 ft	1	1	1	1	1	1	1	1	
10.9 ft	0	0	0	0	0	0	1	1	
16.4 ft	14	14	14	14	14	14	13	13	
F2 (Ust)	● 151	156	154	156	159	160	161	163	
	■ 332	326	327	329	330	337	328	333	
F3 (Ust)	● 114	118	116	114	115	117	117	119	
	■ 296	289	289	289	290	296	288	293	

6.6 ft - V 63A -									
ΔΔΔ (ft)	82	98	115	131	148	164	180	197	
↓ (ft)	233.3	233.3	233.3	233.3	233.3	233.3	233.3	227.7	
↓/P ₊ (ft)	233.3	233.3	233.3	233.3	233.3	233.3	233.3	227.7	
6.6 ft	1	1	1	1	1	1	1	1	
10.9 ft	0	0	0	0	0	0	0	1	
16.4 ft	12	12	12	12	12	12	12	11	
F1 (Ust)	● 112	114	114	115	116	117	118	117	
	■ 178	174	175	175	175	180	182	178	

6.6 ft - V 60A -									
ΔΔΔ (ft)	82	98	115	131	148	164	180	197	
↓ (ft)	205.7	211.3	211.3	211.3	211.3	211.3	205.7	205.7	
↓/P ₊ (ft)	205.7	211.3	211.3	211.3	211.3	211.3	205.7	205.7	
6.6 ft	1	1	1	1	1	1	1	1	
10.9 ft	2	1	1	1	1	1	2	2	
16.4 ft	10	11	11	11	11	11	10	10	
F1 (Ust)	● 91	94	95	96	97	97	97	98	
	■ 138	140	140	141	141	145	141	145	

6.6 ft - ZD 463 -									
ΔΔΔ (ft)	82	98	115	131	148	164	180	197	
↓ (ft)	168	173.2	173.2	173.2	173.2	173.2	168	168	
↓/P ₊ (ft)	168	173.2	173.2	173.2	173.2	173.2	168	168	
6.6 ft	1	1	1	1	1	1	1	1	
10.9 ft	1	0	0	0	0	0	1	1	
16.4 ft	9	10	10	10	10	10	9	9	
F1 (Ust)	● 88	92	91	92	93	97	94	97	
	■ 124	126	126	127	127	133	128	134	





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.



Anchorage



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



Base ballast



 (USt) / 5.2 ft City - ZC 4230 - 									
▽\Δ (ft)	82	98	115	131	148	164	180	197	
145	99.2								
139.4	93.7		99.2						
133.9	88.2	99.2	93.7	99.2	99.2	99.2	99.2	99.2	
117.5	71.7	82.7	88.2	82.7	82.7	82.7	82.7	82.7	
101.1	66.1	77.2	77.2	77.2	77.2	71.7	66.1	66.1	
84.7 ↓	60.6	77.2	77.2	71.7	71.7	66.1	60.6	60.6	
51.8	60.6	77.2	77.2	71.7	71.7	66.1	60.6	60.6	



 (USt) / 5.2 ft - S 41A - 									
▽\Δ (ft)	82	98	115	131	148	164	180	197	
174.9	125.7	112.4	112.4						
169.3	112.4	105.8	105.8	105.8	105.8	105.8			
163.7	99.2	99.2	99.2	99.2	99.2	99.2	105.8	105.8	
147.3	79.4	86	86	86	86	86	92.6	92.6	
130.9	66.1	72.8	72.8	72.8	72.8	72.8	72.8	72.8	
114.5	52.9	59.5	59.5	59.5	59.5	59.5	59.5	59.5	
98.1	46.3	52.9	52.9	52.9	52.9	46.3	46.3	46.3	
81.7 ↓	39.7	52.9	52.9	52.9	46.3	46.3	39.7	39.7	
48.9	39.7	52.9	52.9	52.9	46.3	46.3	39.7	39.7	

 (USt) / 6.6 ft - V 60A - 									
▽\Δ (ft)	82	98	115	131	148	164	180	197	
211.3		145.5	145.5	145.5	145.5	145.5			
205.7	145.5	132.3	132.3	132.3	132.3	145.5	145.5	145.5	
189.3	119.1	105.8	105.8	105.8	105.8	105.8	119.1	119.1	
172.9	92.6	79.4	79.4	79.4	79.4	79.4	92.6	92.6	
156.5	66.1	52.9	52.9	52.9	52.9	52.9	66.1	66.1	
140.1	39.7	39.7	39.7	39.7	39.7	39.7	52.9	39.7	
123.7	26.5	39.7	39.7	39.7	39.7	39.7	39.7	39.7	
107.3	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	
90.9 ↓	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	
58.1	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	

 (USt) / 6.6 ft - ZD 463 - 									
▽\Δ (ft)	82	98	115	131	148	164	180	197	
173.2		132.3	126.8	126.8	126.8	137.8			
168	132.3	115.7	115.7	115.7	115.7	121.3	126.8	137.8	
151.6	93.7	88.2	82.7	88.2	88.2	88.2	93.7	99.2	
135.2	66.1	71.7	71.7	71.7	71.7	71.7	71.7	71.7	
118.8	49.6	55.1	55.1	55.1	55.1	55.1	60.6	55.1	
102.4	38.6	49.6	44.1	44.1	44.1	44.1	44.1	44.1	
86 ↓	33.1	49.6	44.1	44.1	44.1	38.6	33.1	33.1	
53.2	33.1	49.6	44.1	44.1	44.1	38.6	33.1	33.1	

 (USt) / 5.2 ft City - ZD 4230 - 									
▽\Δ (ft)	82	98	115	131	148	164	180	197	
161.4	88.2								
155.8	82.7	88.2	88.2						
150.3	77.2	82.7	82.7	88.2	88.2	88.2	88.2	88.2	
133.9	66.1	71.7	71.7	71.7	71.7	71.7	77.2	77.2	
117.5	55.1	60.6	60.6	60.6	60.6	60.6	60.6	60.6	
101.1	44.1	55.1	55.1	55.1	55.1	49.6	49.6	44.1	
84.7	44.1	55.1	55.1	55.1	55.1	49.6	44.1	44.1	
68.2	44.1	55.1	55.1	55.1	55.1	49.6	44.1	38.6	
51.8	44.1	55.1	55.1	55.1	55.1	49.6	44.1	38.6	

 (USt) / 5.2 ft - ZD 463 - 									
▽\Δ (ft)	82	98	115	131	148	164	180	197	
178.8	132.3								
173.2	115.7	104.7	104.7						
168	110.2	99.2	99.2	99.2					
162.4	99.2	93.7	93.7	93.7	99.2	99.2	104.7	104.7	
146	77.2	82.7	77.2	82.7	82.7	82.7	88.2	82.7	
129.6	60.6	66.1	66.1	66.1	66.1	66.1	71.7	71.7	
113.2	49.6	55.1	55.1	55.1	55.1	55.1	55.1	55.1	
96.8	38.6	49.6	49.6	49.6	49.6	44.1	44.1	38.6	
80.4	38.6	49.6	49.6	49.6	44.1	38.6	33.1	38.6	
64	38.6	49.6	49.6	49.6	44.1	38.6	33.1	33.1	
47.6	38.6	49.6	49.6	49.6	44.1	38.6	33.1	33.1	

 (USt) / 6.6 ft - V 63A - 									
▽\Δ (ft)	82	98	115	131	148	164	180	197	
233.3	198.4	198.4	198.4	198.4	198.4	198.4	198.4		
227.7	198.4	185.2	185.2	185.2	185.2	185.2	185.2	198.4	
211.3	158.7	145.5	145.5	145.5	145.5	158.7	158.7	158.7	
194.9	132.3	119.1	119.1	119.1	119.1	119.1	132.3	132.3	
178.5	105.8	92.6	92.6	92.6	92.6	92.6	105.8	105.8	
162.1	79.4	66.1	66.1	66.1	66.1	66.1	79.4	79.4	
145.7	52.9	52.9	52.9	52.9	52.9	52.9	52.9	52.9	
129.3	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	
112.9	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	
96.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	
80.1	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5	

Load curves



		(ft)	72	82	89	98	105	115	121	131	138	148	154	164	171	180	187	197	ft
		6.6 USt																	
		3.3 USt																	
197	7.5 → 74.3	124.4 - 127.1	6.6	5.8	5.3	4.6	4.2	3.7	3.4	3.2	2.95	2.7	2.5	2.3	2.2	2	1.9	1.75	USt
	7.5 → 79.3	132.6 - 135.4	6.6	6.3	5.7	5	4.6	4	3.7	3.4	3.2	2.95	2.75	2.55	2.4	2.2	2.1	1.95	USt P+
180	7.5 → 77.7	134.3 - 137.8	6.6	6.2	5.6	4.9	4.5	4.1	3.8	3.4	3.3	3	2.85	2.6	2.5	2.3			USt
	7.5 → 83.7	142.7 - 145.9	6.6	6.6	6.2	5.4	5	4.4	4.1	3.7	3.5	3.3	3.1	2.85	2.7	2.5			USt P+
164	7.5 → 83.2	146.8 - 150.9	6.6	6.6	6.1	5.4	5	4.5	4.2	3.8	3.6	3.3	3.2	2.95					USt
	7.5 → 89.9	158.1 - 161.9	6.6	6.6	6.6	5.9	5.5	4.9	4.6	4.2	3.9	3.6	3.4	3.3					USt P+
148	7.5 → 90.4		6.6	6.6	6.6	6	5.5	5	4.6	4.2	4	3.6							USt
	7.5 → 97.6		6.6	6.6	6.6	6.5	6.1	5.4	5.1	4.6	4.3	4							USt P+
131	7.5 → 92.4		6.6	6.6	6.6	6.1	5.7	5.1	4.8	4.4									USt
	7.5 → 97.6		6.6	6.6	6.6	6.6	6.1	5.5	5.2	4.7									USt P+
115	7.5 → 93		6.6	6.6	6.6	6.2	5.7	5.1											USt
	7.5 → 98.4		6.6	6.6	6.6	6.6	6.1	5.5											USt P+
98	7.5 → 93		6.6	6.6	6.6	6.1													USt
	7.5 → 97.3		6.6	6.6	6.6	6.5													USt P+
82	7.5 → 82		6.6	6.6															USt
	7.5 → 82		6.6	6.6															USt P+

= - 0.11 USt max.

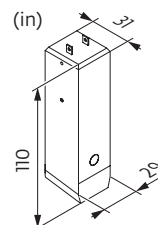


		(ft)	72	82	89	98	105	115	121	131	138	148	154	164	171	180	187	197	ft
		6.6 USt																	
197	7.5 → 74.5		6.6	5.8	5.3	4.6	4.2	3.7	3.4	3.1	2.85	2.6	2.45	2.2	2.1	1.9	1.8	1.65	USt
	7.5 → 79.6		6.6	6.4	5.7	5	4.6	4	3.7	3.4	3.1	2.85	2.65	2.4	2.3	2.1	2	1.8	USt P+
180	7.5 → 77.4		6.6	6.2	5.6	4.9	4.5	4	3.8	3.4	3.2	2.9	2.75	2.5	2.4	2.2			USt
	7.5 → 83.6		6.6	6.6	6.2	5.4	5	4.4	4.1	3.7	3.5	3.2	3	2.75	2.6	2.4			USt P+
164	7.5 → 83.6		6.6	6.6	6.2	5.4	5	4.5	4.2	3.8	3.6	3.3	3.1	2.85					USt
	7.5 → 90.1		6.6	6.6	6.6	5.9	5.5	4.9	4.6	4.2	3.9	3.6	3.4	3.2					USt P+
148	7.5 → 90.4		6.6	6.6	6.6	6	5.5	5	4.6	4.2	4	3.6							USt
	7.5 → 97.5		6.6	6.6	6.6	6.5	6.1	5.4	5.1	4.6	4.3	4							USt P+
131	7.5 → 92.4		6.6	6.6	6.6	6.1	5.7	5.1	4.8	4.4									USt
	7.5 → 98.6		6.6	6.6	6.6	6.6	6.2	5.6	5.2	4.8									USt P+
115	7.5 → 93		6.6	6.6	6.6	6.2	5.7	5.1											USt
	7.5 → 98.5		6.6	6.6	6.6	6.6	6.2	5.6											USt P+
98	7.5 → 93		6.6	6.6	6.6	6.1													USt
	7.5 → 98.4		6.6	6.6	6.6	6.6													USt P+
82	7.5 → 82		6.6	6.6															USt
	7.5 → 82		6.6	6.6															USt P+

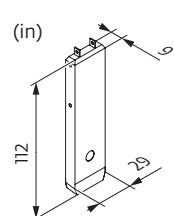
Jib weight & counter-jib ballast

		(lb) - 33 LVF (+/- 5%)	7,937 lb	2,425 lb
197 ft		19,621	3	4
180 ft		19,180	3	4
164 ft		18,519	3	4
148 ft		17,857	3	4
131 ft		17,196	3	3
115 ft		16,094	3	2
98 ft		15,212	3	1
82 ft		14,330	2	2

CAU - 7,937 lb


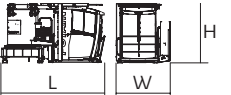

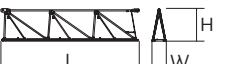


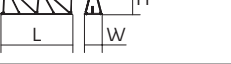
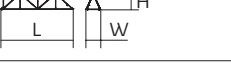


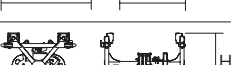
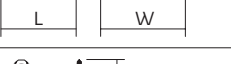
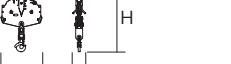



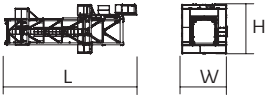

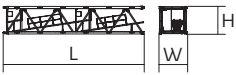


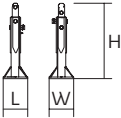

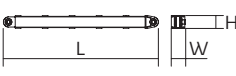
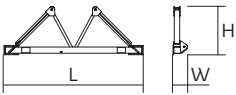
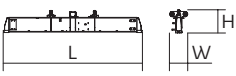
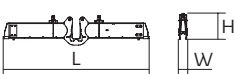

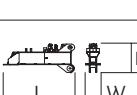
CAV - 2,425 lb











Dimensions and weight

Slewing crane part:  197 ft -  SM/DM Quick Lock™ -  33 LVF

Slewing crane part		L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Counter-jib		38.9	4.4	8.2	11,023
Towerhead + cab	 Ultra View	14.2	7.4	8.1	13,338
Jib section	 ① 33 LVF 6 DVF	36	9.5	8.5	8,377
Jib section	 ②	33.6	3.4	7.8	3,217
Jib section	 ③ ④ ⑥ ⑦ ⑨	17.1 17 17 17 16.9	3.4 3.4 3.4 3.4 3.4	7.7 7.6 6.3 6.2 3.9	1,336 1,283 886 756 503
Jib section	 ⑤ ⑧	17 16.9	3.4 3.4	7.6 6.2	990 646
Jib section	 ⑩	16.7	3.4	3.8	417
Jib section		4.1	4	2	225
Hoisting winch (+ rope)	 33 LVF	4.5	3	2.9	2,150
Trolley	 SM/DM Quick Lock™ 6.6 USt	3.8	4.3	2.5	399
Pulley block	 SM/DM Quick Lock™ 6.6 USt	2.9	0.9	5.4	401
Trolley	 DMP 6.6 USt	3.8	4.3	2.5	399
Trolley	 DMP 6.6 USt	2.9	0.6	3.4	291
Trolley inspection platform		2.2	3.5	5.7	99

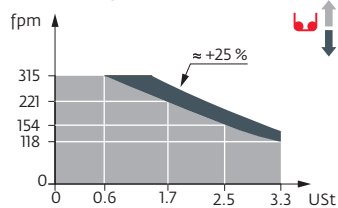
Crane tower			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Telescopic cage T41 Telescopic cage T61		5.2 ft 6.6 ft	35.6 35.5	12.3 13.6	13.5 14.7	15,653 21,385
K40/K40-2 K60/K40-2		5.2 ft 6.6/5.2 ft	7.3 7.3	6.9 8.2	6.8 8.1	2,932 5,820
K 447E KM 447E KM 449E K 649B KM 649E		5.2 ft 5.2 ft 5.2 ft 6.6 ft 6.6 ft	33.5 33.5 33.5 33.6 33.8	5.3 5.3 5.3 6.8 6.7	5.3 5.3 5.3 6.7 6.7	7,474 7,088 8,448 11,663 10,692
K 447A KMT 447A K 449A KMT 449A KR 649A KRMT 649A K 649A KMT 649A		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 447C K 649C KMT 649C KRMT 649C		5.2 ft 6.6 ft 6.6 ft 6.6 ft	11.3 11.7 11.7 11.7	5.5 6.8 6.8 6.9	5.3 6.7 6.7 6.8	2,998 4,376 4,542 5,401
Fixing angles		P 41A P 602B	1.2 2.1	1.2 2.1	3.7 4.2	320 761
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	7,132 10,494 16,887
Struts		S 41A V 60A V 63A	10.4 14.8 14.8	0.9 1 1.1	0.8 1 1.1	816 1,036 1,235
Half-bearer		S 41A V 60A V 63A	16.7 22 22	2 2.3 2.3	5.8 7.6 7.6	2,315 4,057 4,101
Cross girder		ZC 4230 ZD 4230	18.5 21.8	2.7 2.7	3.4 3.4	3,505 4,035
Cross girder		ZC 4230 ZD 4230	18.5 21.8	1.5 1.5	4.4 4.4	4,178 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 15 Optima	fpm	118	154	221	315	59	79	116	157	33	22		
		USt	3.3	2.5	1.7	0.6	6.6	5	3.3	1.4				
	6 DVF 4 Optima	fpm	0 → 262 (6.6 USt) 0 → 328 (2.2 USt)									5.5		4
	RVF 152 Optima+	rpm	0 → 0.8									2 x 5.5		2 x 4
														

	IEC 60204-32	
480 V (+6% -10%) 60 Hz	41 → 28 kVA	

33 LVF 15 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: 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		



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