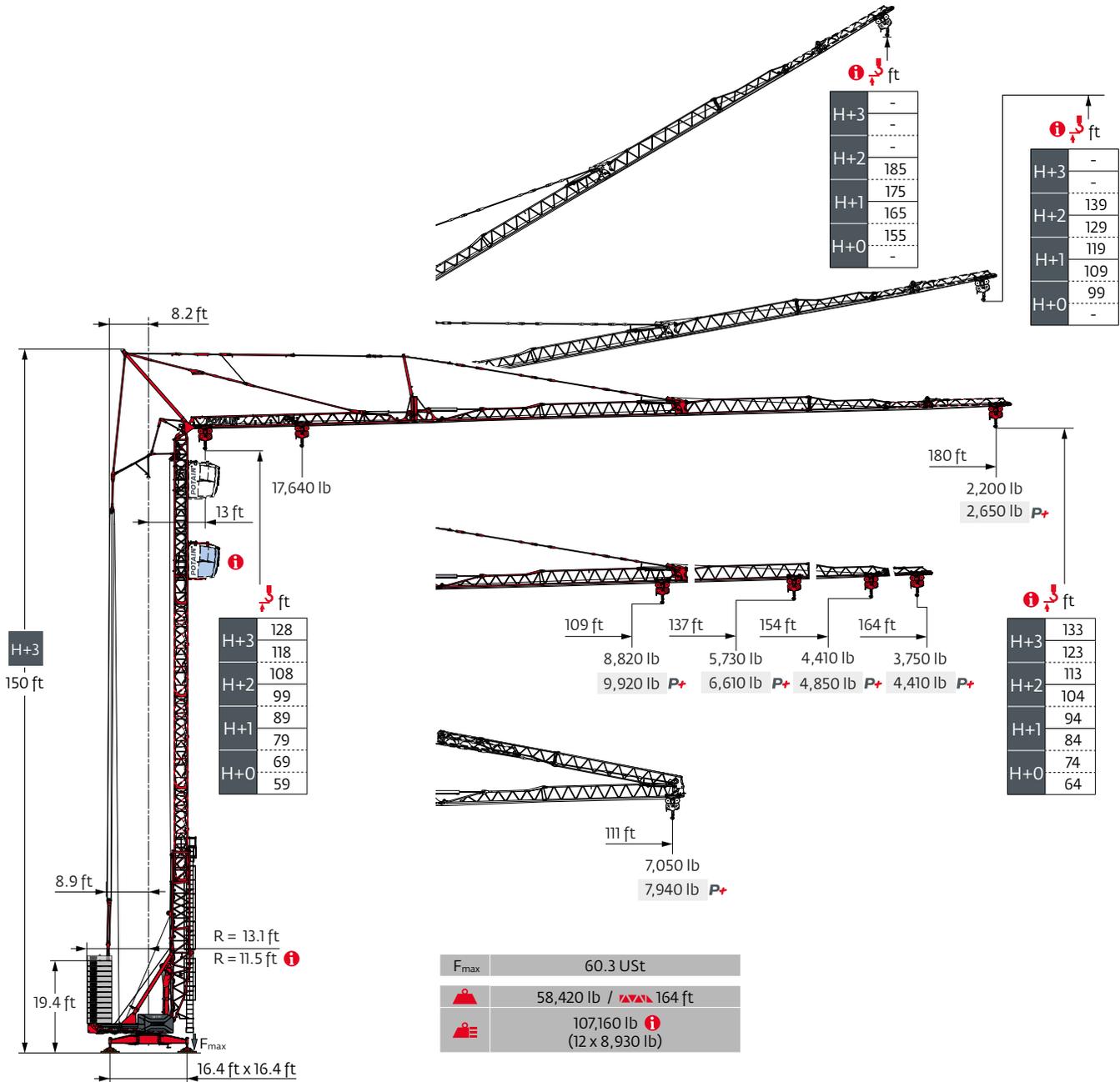
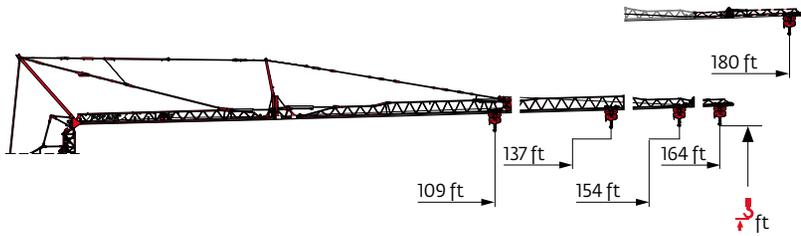


## Igo T 139

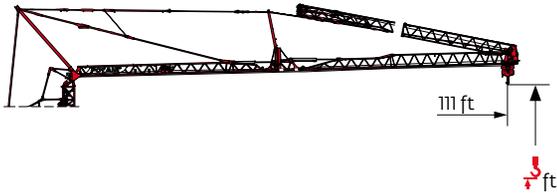


Load curves



ft		109	137	154	164	180	
ft	H+3	131	131	132	132	133	4
		121	122	122	123	123	3
	H+2	111	112	112	113	113	
		101	102	103	103	104	2
	H+1	91	92	93	93	94	
		82	82	83	83	84	
	H+0	72	72	73	73	74	1
		62	63	63	64	64	

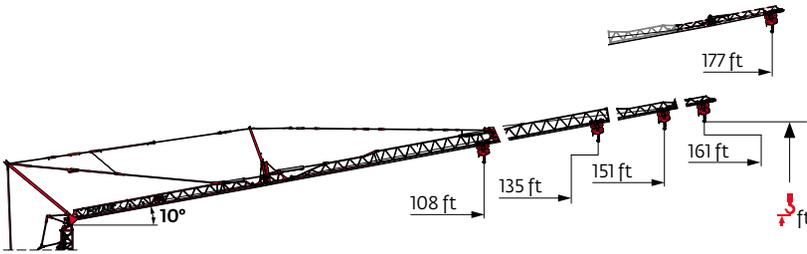
ft	17,640 lb	23	32	45	59	65	72	78	85	91	98	105	109	114	118	124	131	137	144	154	164	170	180	ft		
1	180	13 → 32	17,640	17,640	12,200	9,200	8,160	7,300	6,590	5,990	5,480	5,030	4,640	-	4,140	3,990	3,720	3,470	3,250	3,050	2,780	2,540	2,400	2,200	lb	
		13 → 32	17,640	17,640	12,770	9,900	8,870	8,010	7,290	6,680	6,140	5,680	5,270	-	4,740	4,580	4,290	4,030	3,790	3,570	3,280	3,020	2,860	2,650	lb P+	
	164	13 → 42	17,640	17,640	16,300	12,440	11,090	9,980	9,050	8,270	7,600	7,020	6,510	-	5,850	5,650	5,300	4,970	4,680	4,420	4,060	3,750			lb	
		13 → 42	17,640	17,640	16,500	13,070	11,810	10,760	9,860	9,090	8,420	7,830	7,310	-	6,630	6,430	6,060	5,720	5,410	5,130	4,750	4,410			lb P+	
	154	13 → 45	17,640	17,640	17,640	13,440	11,970	10,770	9,770	8,930	8,210	7,580	7,030	-	6,330	6,120	5,730	5,390	5,080	4,790	4,410				lb	
		13 → 45	17,640	17,640	17,640	13,790	12,400	11,240	10,270	9,440	8,720	8,100	7,540	-	6,830	6,610	6,220	5,860	5,540	5,250	4,850				lb P+	
	137	13 → 49	17,640	17,640	17,640	14,610	13,080	11,830	10,770	9,870	9,100	8,430	7,850	-	7,090	6,860	6,450	6,070	5,730						lb	
		13 → 49	17,640	17,640	17,640	15,080	13,730	12,590	11,610	10,760	10,010	9,360	8,770	-	8,010	7,780	7,350	6,970	6,610						lb P+	
	109	13 → 50	17,640	17,640	17,640	15,570	14,220	13,070	12,080	11,220	10,460	9,800	9,200	8,820	-											lb
		13 → 50	17,640	17,640	17,640	15,970	14,840	13,840	12,970	12,190	11,490	10,860	10,290	9,920	-											lb P+
	2	180	13 → 29	17,640	15,940	11,390	8,750	7,810	7,030	6,380	5,820	5,340	4,920	4,550	-	4,080	3,940	3,670	3,440	3,220	3,030	2,770	2,540	2,400	2,200	lb
			13 → 29	17,640	16,160	12,010	9,460	8,530	7,740	7,070	6,500	6,000	5,560	5,170	-	4,670	4,520	4,240	3,990	3,750	3,540	3,260	3,010	2,850	2,650	lb P+
164		13 → 34	17,640	17,640	13,680	10,800	9,750	8,860	8,110	7,460	6,900	6,400	5,970	-	5,400	5,230	4,910	4,630	4,370	4,130	3,810	3,530			lb	
		13 → 34	17,640	17,640	14,220	11,570	10,560	9,700	8,950	8,300	7,740	7,230	6,780	-	6,190	6,010	5,670	5,370	5,100	4,840	4,500	4,190			lb P+	
154		13 → 39	17,640	17,640	15,180	11,920	10,740	9,750	8,910	8,190	7,570	7,030	6,550	-	5,920	5,740	5,390	5,080	4,800	4,540	4,190				lb	
		13 → 39	17,640	17,640	15,520	12,570	11,450	10,500	9,690	8,980	8,360	7,810	7,310	-	6,670	6,480	6,120	5,790	5,500	5,220	4,850				lb P+	
137		13 → 44	17,640	17,640	17,060	13,450	12,130	11,030	10,100	9,300	8,610	8,000	7,460	-	6,770	6,560	6,180	5,830	5,510						lb	
		13 → 44	17,640	17,640	17,160	14,060	12,880	11,860	10,980	10,210	9,540	8,940	8,400	-	7,690	7,480	7,090	6,720	6,390						lb P+	
109		13 → 50	17,640	17,640	17,640	15,570	14,220	13,070	12,080	11,220	10,460	9,800	9,200	8,820	-											lb
		13 → 50	17,640	17,640	17,640	15,970	14,840	13,840	12,970	12,190	11,490	10,860	10,290	9,920	-											lb P+
3		180	13 → 23	17,640	12,880	9,340	7,220	6,460	5,820	5,280	4,810	4,410	4,060	3,750	-	3,360	3,230	3,010	2,820	2,630	2,470	2,240	2,050	1,930	1,760	lb
			13 → 23	17,640	13,450	10,110	8,010	7,230	6,570	6,010	5,520	5,100	4,720	4,390	-	3,960	3,830	3,590	3,370	3,170	2,990	2,740	2,520	2,390	2,200	lb P+
	164	13 → 30	17,640	16,590	12,310	9,700	8,730	7,930	7,240	6,660	6,150	5,700	5,300	-	4,780	4,630	4,340	4,090	3,850	3,630	3,340	3,090			lb	
		13 → 30	17,640	16,770	13,010	10,560	9,620	8,830	8,140	7,540	7,020	6,550	6,130	-	5,590	5,420	5,120	4,840	4,580	4,350	4,030	3,750			lb P+	
	154	13 → 32	17,640	17,640	13,240	10,510	9,500	8,640	7,920	7,300	6,750	6,270	5,850	-	5,300	5,130	4,820	4,550	4,290	4,060	3,750				lb	
		13 → 32	17,640	17,640	13,800	11,260	10,290	9,460	8,740	8,120	7,560	7,070	6,630	-	6,060	5,880	5,560	5,260	5,000	4,750	4,410				lb P+	
	137	13 → 37	17,640	17,640	15,090	12,190	11,100	10,170	9,380	8,680	8,080	7,540	7,060	-	6,440	6,250	5,900	5,580	5,290						lb	
		13 → 37	17,640	17,640	15,410	12,760	11,740	10,850	10,080	9,400	8,790	8,260	7,770	-	7,140	6,940	6,590	6,250	5,950						lb P+	
	109	13 → 47	17,640	17,640	17,640	14,990	13,790	12,760	11,860	11,060	10,360	9,740	9,180	8,820	-											lb
		13 → 47	17,640	17,640	17,640	15,400	14,340	13,410	12,590	11,850	11,190	10,590	10,050	9,700	-											lb P+
	4	180	13 → 41	8,820	8,820	7,950	6,250	5,610	5,080	4,620	4,220	3,880	3,580	3,310	-	2,960	2,850	2,660	2,480	2,320	2,170	1,970	1,800	1,690	1,540	lb
		164	13 → 49	8,820	8,820	8,820	7,600	6,940	6,380	5,880	5,450	5,070	4,730	4,420	-	4,020	3,900	3,670	3,460	3,270	3,100	2,860	2,650			lb
154		13 → 23	17,640	13,990	10,880	8,830	8,050	7,380	6,800	6,290	5,850	5,450	5,100	-	4,630	4,490	4,230	3,990	3,780	3,580	3,310				lb	
137		13 → 29	17,640	16,500	13,060	10,740	9,840	9,070	8,400	7,810	7,290	6,830	6,410	-	5,860	5,700	5,390	5,110	4,850						lb	
109		13 → 42	17,640	17,640	16,780	14,030	12,940	12,000	11,180	10,450	9,810	9,230	8,710	8,380	-										lb	



ft		137	154	164	180	
ft	H+3	131				4
	H+2	121				3
	H+1	111				2
	H+0	91				1
		82				
		72				
		62				

ft		17,640 lb	ft												
1	180 - 164 - 154 - 137	13 → 45	23	32	45	59	65	72	78	85	91	98	105	111	ft
		13 → 45	17,640	17,640	17,640	13,770	12,380	11,230	10,250	9,420	8,700	8,070	7,520	7,050	lb
2	180 - 164 - 154 - 137	13 → 41	23	32	45	59	65	72	78	85	91	98	105	111	ft
		13 → 41	17,640	17,640	16,270	13,440	12,350	11,400	10,580	9,870	9,230	8,660	8,150	7,720	lb
3	180 - 164 - 154 - 137	13 → 34	23	32	45	59	65	72	78	85	91	98	105	111	ft
		13 → 34	17,640	17,640	14,080	11,360	10,340	9,470	8,720	8,080	7,510	7,000	6,550	6,170	lb
4	180 - 164 - 154 - 137	13 → 23	23	32	45	59	65	72	78	85	91	98	105	111	ft
		13 → 23	17,640	17,640	14,600	12,150	11,180	10,350	9,620	8,980	8,420	7,910	7,450	7,050	lb
4	180 - 164 - 154 - 137	13 → 23	23	32	45	59	65	72	78	85	91	98	105	111	ft
		13 → 23	17,640	14,470	11,600	9,630	8,850	8,180	7,590	7,070	6,610	6,200	5,830	5,510	lb

Jib raised to 10°



ft		109	137	154	164	180
ft	H+3	-	-	-	-	-
	H+2	126	130	134	135	139
	H+1	116	121	124	126	129
	H+0	106	111	114	116	119
		96	101	104	106	109
	86	91	94	96	99	
	-	-	-	-	-	

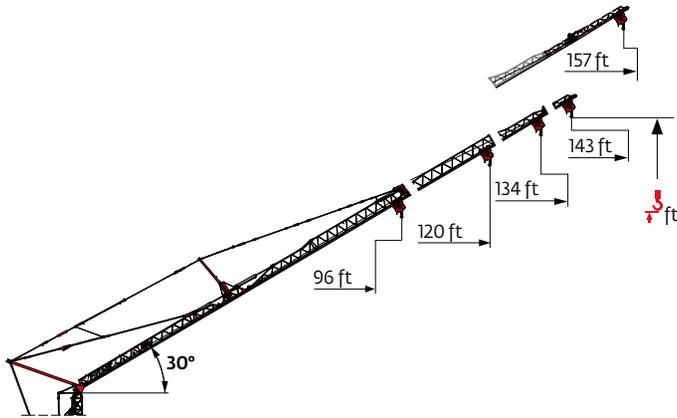
ft		2,870 lb	ft																		
1	180	13 → 131	95	98	105	108	114	118	124	131	135	137	144	150	151	157	161	164	170	177	ft
	164	13 → 161	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	lb
	154	13 → 151	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	lb
	137	13 → 135	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	lb
	109	13 → 108	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	lb
3	180	13 → 95	95	98	105	108	114	118	124	131	135	137	144	150	151	157	161	164	170	177	ft
	164	13 → 161	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	lb
	154	13 → 151	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	lb
	137	13 → 135	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	lb
	109	13 → 108	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	2,870	lb



ft		137	154	164	180
ft	H+3	-			
	H+2	126			
	H+1	116			
	H+0	106			
		96			
	86				
	-				

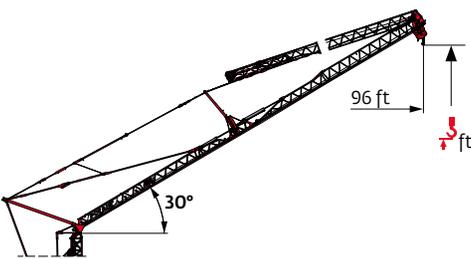
ft		2,870 lb	ft					
1	2	3	180 - 164 - 154 - 137	13 → 109	98	105	109	ft
					2,870	2,870	2,870	lb

Jib raised to 30°



ft	109	137	154	164	180
H+3	-	-	-	-	-
H+2	-	182	191	-	-
H+1	149	163	171	176	185
H+0	139	153	161	166	175
	129	143	151	156	165
	119	133	142	147	155

ft	8,820 lb	52	59	65	72	78	85	91	96	98	105	114	118	120	124	131	134	137	143	144	150	157	ft
180	13 → 52	8,820	7,730	6,850	6,130	5,530	5,020	4,590	-	4,210	3,870	3,450	3,320	-	3,080	2,870	2,780	2,680	-	2,510	2,350	2,200	lb
164	13 → 68	8,820	8,820	8,820	8,380	7,610	6,960	6,400	-	5,910	5,480	4,930	4,760	-	4,460	4,180	4,050	3,930	3,750	-	-	-	lb
154	13 → 72	8,820	8,820	8,820	8,820	8,050	7,390	6,820	-	6,330	5,880	5,310	5,140	-	4,830	4,540	4,410	-	-	-	-	-	lb
137	13 → 82	8,820	8,820	8,820	8,820	8,820	8,450	7,790	-	7,220	6,710	6,060	5,860	5,730	-	-	-	-	-	-	-	-	lb
109	13 → 96	8,820	8,820	8,820	8,820	8,820	8,820	8,820	8,820	-	-	-	-	-	-	-	-	-	-	-	-	-	lb



ft	137	154	164	180
H+3	-	-	-	-
H+2	-	-	-	-
H+1	149	139	129	119
H+0	139	129	119	-

ft	8,820 lb	65	72	78	85	91	96	ft
180 - 164 - 154 - 137	13 → 78	8,820	8,820	8,820	8,070	7,430	7,050	lb
180 - 164 - 154 - 137	13 → 75	8,820	8,820	8,440	7,760	7,180	6,830	lb

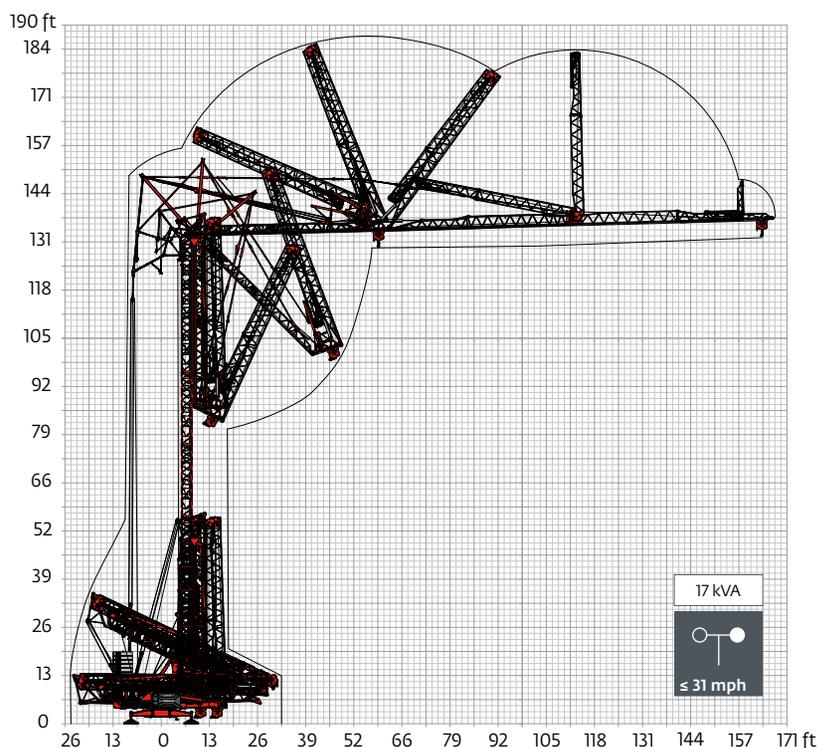
Mechanisms

480 V - 60 Hz		UU (ZAVAK)							UU (ZAVAK 10°)			hp	kW
↑	25 HPL™ 20	fpm	5	38	49	74	115	167	5	136	167	25	18
		lb	17,640	17,640	13,240	8,820	4,410	1,100	2,870	2,870	1,100		
↔	5 DVF 5 Optima	fpm	16	112	128	180	230	16	49	98	5.5	4	
		lb	17,640	17,640	13,240	4,410	440	2,870	2,870	440			
↻	HPS 162	rpm	0 → 0,8									2 x 7.5	2 x 5.5

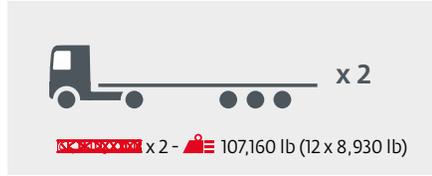
480 V - 60 Hz		U (ZAVAK 30°)					hp	kW	
↑	25 HPL™ 20	fpm	10	74	97	138	200	25	18
		lb	8,820	8,820	6,610	4,410	2,200		
↔	5 DVF 5 Optima	fpm	16			98		5.5	4
		lb	8,820			8,820			
↻	HPS 162	rpm	0 → 0.8					2 x 7.5	2 x 5.5

IEC 60204-32	kVA
480 V (+6% -10%) 60 Hz	 32 → 23 kVA  36 → 26 kVA 

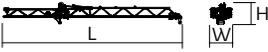
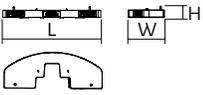
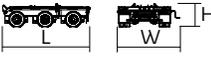
Erection



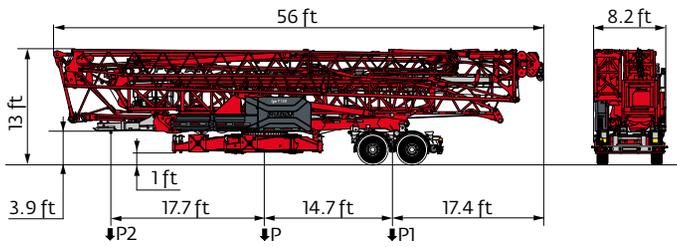
Transport



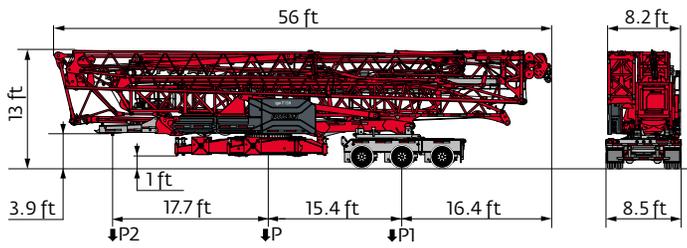
Dimensions and weight

Description		L (ft)	W (ft)	H (ft)	lb (+/- 5%)	
	Extension mast	19.7	3	3.1	2,534	
	180 ft jib option	154 ft --> 180 ft	26.5	3.3	3.2	970
	Cab	Ultra View	10	5.5	8.2	1,929
	Ballast slab	14.4	5.3	1.7	8,929	
	Fifth wheel adaptor kit	SL121	7.2	3.1	2	787
	Transport axle 15.5 mph	S215M	10.5	7.9	3.9	5,291
	Fifth wheel adaptor kit	SL122	7.2	7.6	2	798
	Transport axle 31 mph		14	8.6	3.7	9,259
	Rear adaptation kit	Kit 213	7.6	6.1	2.1	933

Road transport



	mph	P (lb)	P1 (lb)	P2 (lb)
SL121/S215M	15.5	65,510	41,560	23,950



	mph	P (lb)	P1 (lb)	P2 (lb)
North America Highway Axle	31	69,480	44,730	24,750

The reactions meet the EN 14439 and ASCE 7-10 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.

- |                                                                                                                                                                                      |                                                                                                        |                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>R</b> Rear slewing radius                                                                                                                                                         | <b>P+</b> Potain Plus function: Plus load curves                                                       |  Slewing                                                             |
|  Consult us                                                                                       |  Standard equipment |  Required power                                                      |
| <b>F<sub>max</sub></b> Maximum corner load                                                                                                                                           |  Options            |  Power Control Function: winch speeds adapted to the available power |
|  Weight without load, without ballast, without transport axles, with max. jib and standard height |  Hoisting           |                                                                                                                                                         |
|  Total ballast weight                                                                             |  Trolleying         |                                                                                                                                                         |

 Hook heights given with plated pulley block  
 This commercial document is not legally binding  
 For any technical information, please refer to the corresponding instructions

