

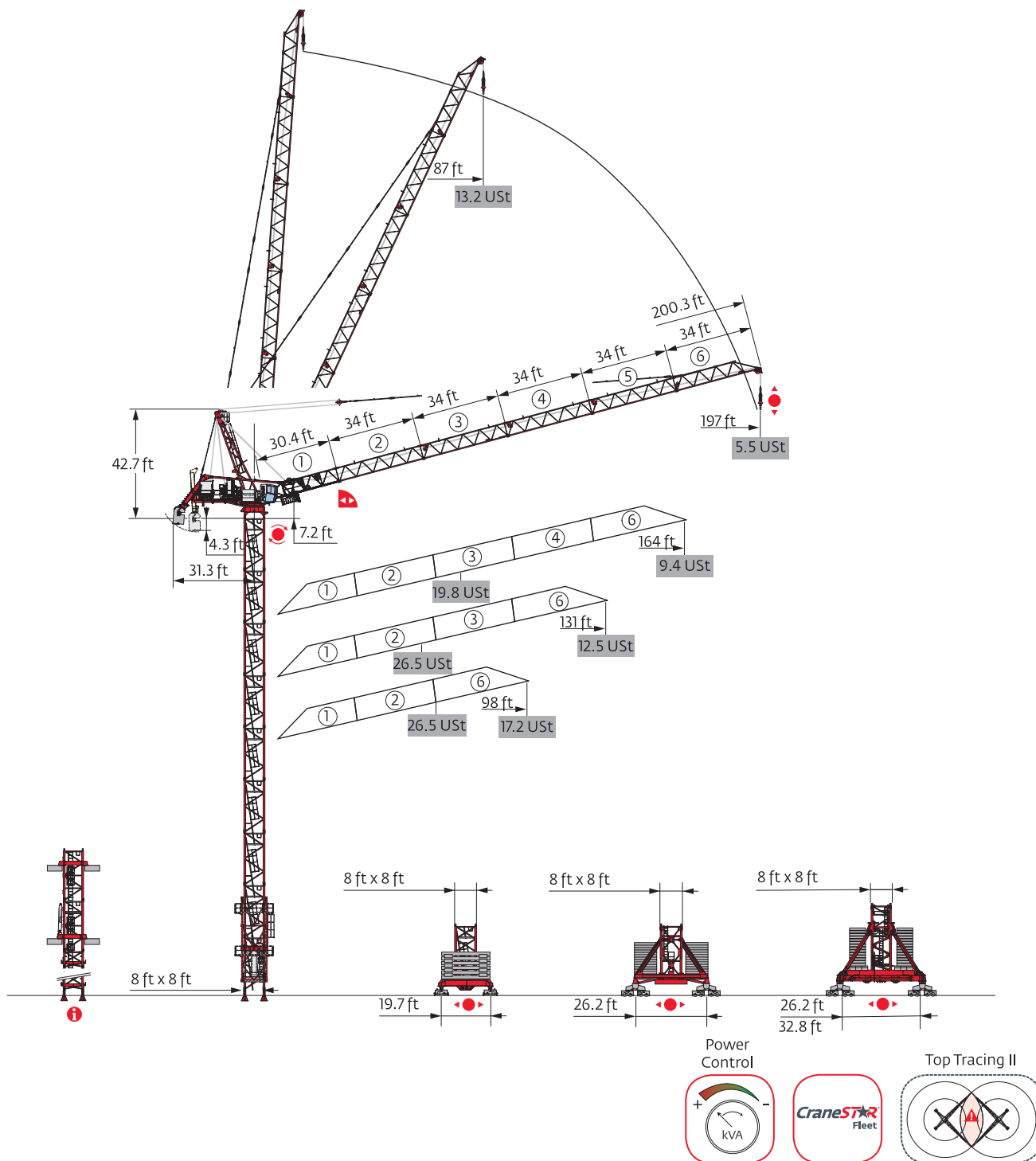
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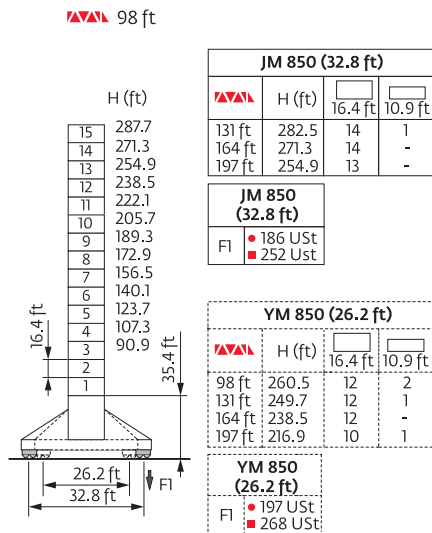
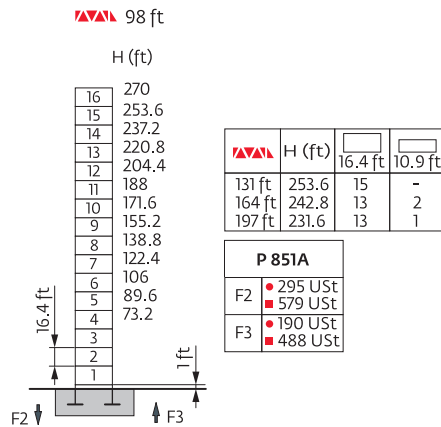
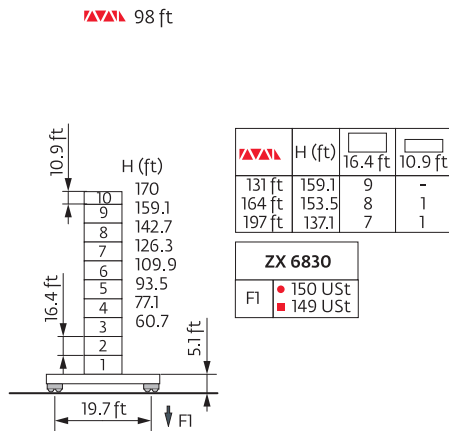
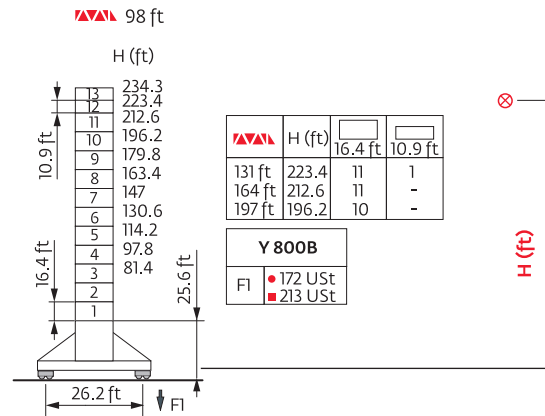
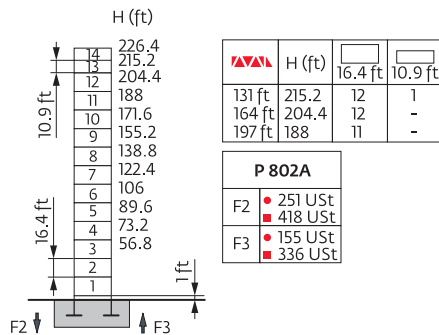
MR 418



Mast - Reactions

8 ft

98 ft



Y 800B	H1 = H	H2 = H - 2.6 ft	H3 = H - 3.9 ft
YM 850 - JM 850	H1 = H	-	H3 = H - 4.6 ft
ZX 6830	H1 = H	-	H3 = H - 1 ft

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



Load curves

197 ft	19	▶						87	92	98	115	131	148	164	180	197	ft
▲▲▲▲	↓							13.2	12.6	11.7	9.9	8.6	7.6	6.7	6.1	5.5	USt
164 ft	17	▶			77	79	82	85	92	98	115	118	131	148	164		ft
▲▲▲▲	U				19.8	19.5	18.7	18	16.5	15.3	13	-	11.2	9.8	8.7		USt
	↓												13.2	11.9	10.5	9.4	USt
131 ft	14	▶	62	66	72	79	82	85	92	98	115	124	131				ft
▲▲▲▲	U		26.5	24.8	22.5	20.5	19.6	18.8	17.4	16.1	13.7	-	11.8				USt
	↓												13.2	12.5			USt
98 ft	12	▶		66	72	79	82	85	92	98							ft
▲▲▲▲	U			26.5	23.9	21.8	20.9	20.1	18.5	17.2							USt
	↓										13.2						USt

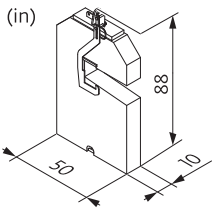
Base ballast

🚧 8 ft								
🔴🔴 Y 800B			🔴🔴 ZX 6830		🔴🔴 YM 850		🔴🔴 JM 850	
🚧🚧	H (ft)	🚧🚧(Ust)	H (ft)	🚧🚧(Ust)	H (ft)	🚧🚧(Ust)	H (ft)	🚧🚧(Ust)
98 ft	234.3	198.4	170	144.4	260.5	238.1	287.7	224.9
131 ft	223.4	198.4	159.1	133.4	249.7	238.1	282.5	238.1
164 ft	212.6	198.4	153.5	155.4	238.5	238.1	271.3	238.1
197 ft	196.2	198.4	137.1	166.5	216.9	238.1	254.9	238.1

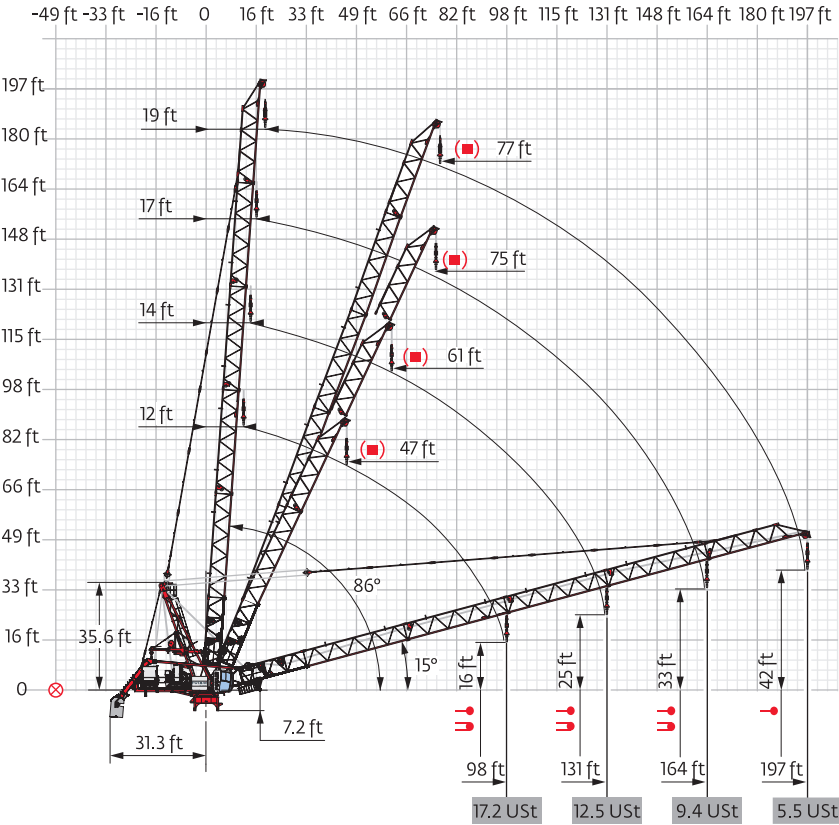
Jib weight & counter-jib ballast

	(lb) (+/- 5%)	9,700 lb	(lb)
98 ft	18,276	7	67,902
131 ft	21,197	8	77,603
164 ft	24,063	9	87,303
197 ft	26,566	9	87,303

9,700 lb



Luffing jib

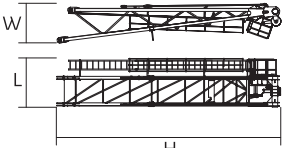
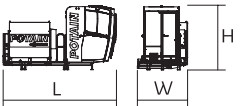
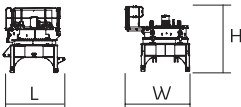
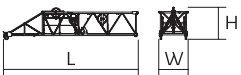
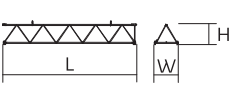
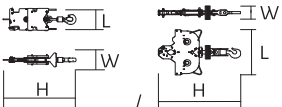
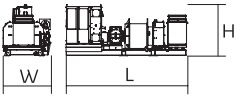
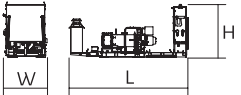
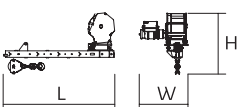
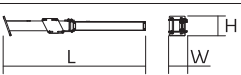
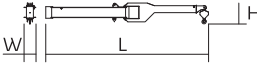
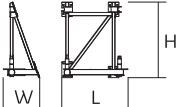


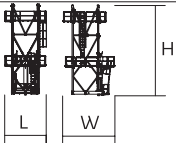
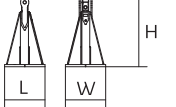
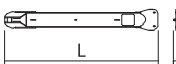
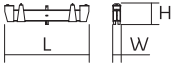
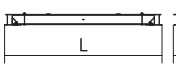
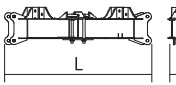
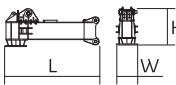
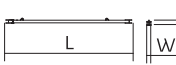
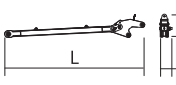
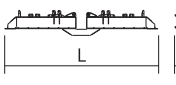
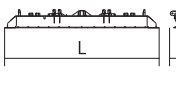
Dimensions and weight

Slewing crane part:  197 ft -  180 LVF

 x 11

 x 10

Slewing crane part		L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Counter-jib (+ Grab rail + Platform)		21.1	20.8	6.9	9,270
Strut		8.4	6.9	38.8	12,236
Cab	 Ultra View	14.5	6.5	8.2	3,616
Towerhead	 8 ft	10.1	10.7	11.1	23,082
Jib section	 ①	31.2	6.9	7.5	5,864
Jib section	 ② ③ ④ ⑤ ⑥	34.5 34.5 34.5 34.5 34.4	6.2 6.2 6.2 6.2 6.2	5.8 5.8 5.8 5.8 7.9	2,932 2,855 2,579 2,304 4,431
Pulley block	 GH	2.9 5.1	1.8 1.5	8.4 8.2	2,601 1,521
Hoisting winch (+ rope)	 180 LVF 320 LVF	16.1 18.4	7.5 7.1	6.3 7.8	23,016 31,063
Luffing winch (+ rope)	 150 VVF	16	5.6	7.1	10,880
Rear left derrick arm (+ auxiliary winch + pulley block)		7.8	3.4	4.3	1,356
Front left derrick arm LWH		11.5	1.4	1.6	419
Articulated derrick arm		13.8	1	1.8	694
Derrick support		6.5	3.6	7.4	1,477

Crane tower			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Telescopic cage		8 ft	15.2	19	33.6	29,200
K 850/KR 849A KRMT 849A K 849A KMT 850.10A		8 ft	17.2 17.2 17.2 17.5	8.3 8.4 8.3 8.3	8.2 8.3 8.2 8.2	12,291 9,017 7,496 12,015
KRMT 849C		8 ft	11.7	8.4	8.3	7,066
Fixing angles		P 802A P 851A	2.5 3	2.5 3	4.2 4.9	1,025 1,841
Basic mast unit		Y 800B	19.8	9.6	9.6	19,004
Struts		Y 800B	18.1	1.6	1.5	2,447
1/2 Side member		Y 800B	18.6	4.1	2.4	3,351
Side member		Y 800B	39.4	4.1	2.4	6,724
Ballast support		Y 800B	12.3	1.2	3	2,392
Chassis beam		Y 800B	28.5	2.7	2.4	4,938
Central cross (transport position)		YM 850 JM 850	17.1	5.6	4.9	14,771
Basic mast unit		YM 850 JM 850	28.7	8.2	8.2	32,187
Chassis girder		YM 850 JM 850	12.5 17.1	3 3	5.1 5.1	6,173 7,055
Chassis ties		YM 850 JM 850	23.6	0.8	1.1	551
Struts		YM 850 JM 850	24.6 26.9	2.5 2.5	4.3 4.3	4,630 5,071
Cross girder		ZX 6830	29.9	2.5	4.9	12,004
			29.9	3.7	3.6	11,607

Mechanisms

480 V - 60 Hz													hp	kW		
	180 LVF 120 Optima	fpm	184	240	341	571	689	92	123	174	312	344	180	132	1,811 ft	
		USt	13.2	9.9	6.6	3.3	2.4	26.5	19.8	13.2	6.6	5.8				
	320 LVF 120 Optima	fpm	331	427	581	797	833	166	213	312	400	417	320	240	2,710 ft	
USt		13.2	9.9	6.6	4.2	3.3	26.5	19.8	13.2	9.9	8.4					
	150 VVF 56	fpm	1 min 15 s										150	110		
	RVF 162 Optima +	rpm	0 → 0,9										2 x 7.5	2 x 5.5		
Y 800B 																
ZX 6830 	RT 664 A2B - 2V	fpm	62 - 125										6 x 8.4	6 x 6.2		
YM 850 JM 850 																

 IEC 60204-32	
480 V (+6% -10%) 60 Hz	180 LVF + 150 VVF: 278 → 146 kVA 320 LVF + 150 VVF: 390 → 202 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		Jib articulation axis		Slewing
	Options		Weather vaning position		Travelling
	Reactions in service		Lorry 44 ft		Required power
	Reactions out of service		Container High Cube 40 ft, and/or Flat Rack 20 ft		Power Control Function: winch speeds adapted to the available power
	Jib weight		Hoisting		Consult us
	Total ballast weight		Luffing		



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