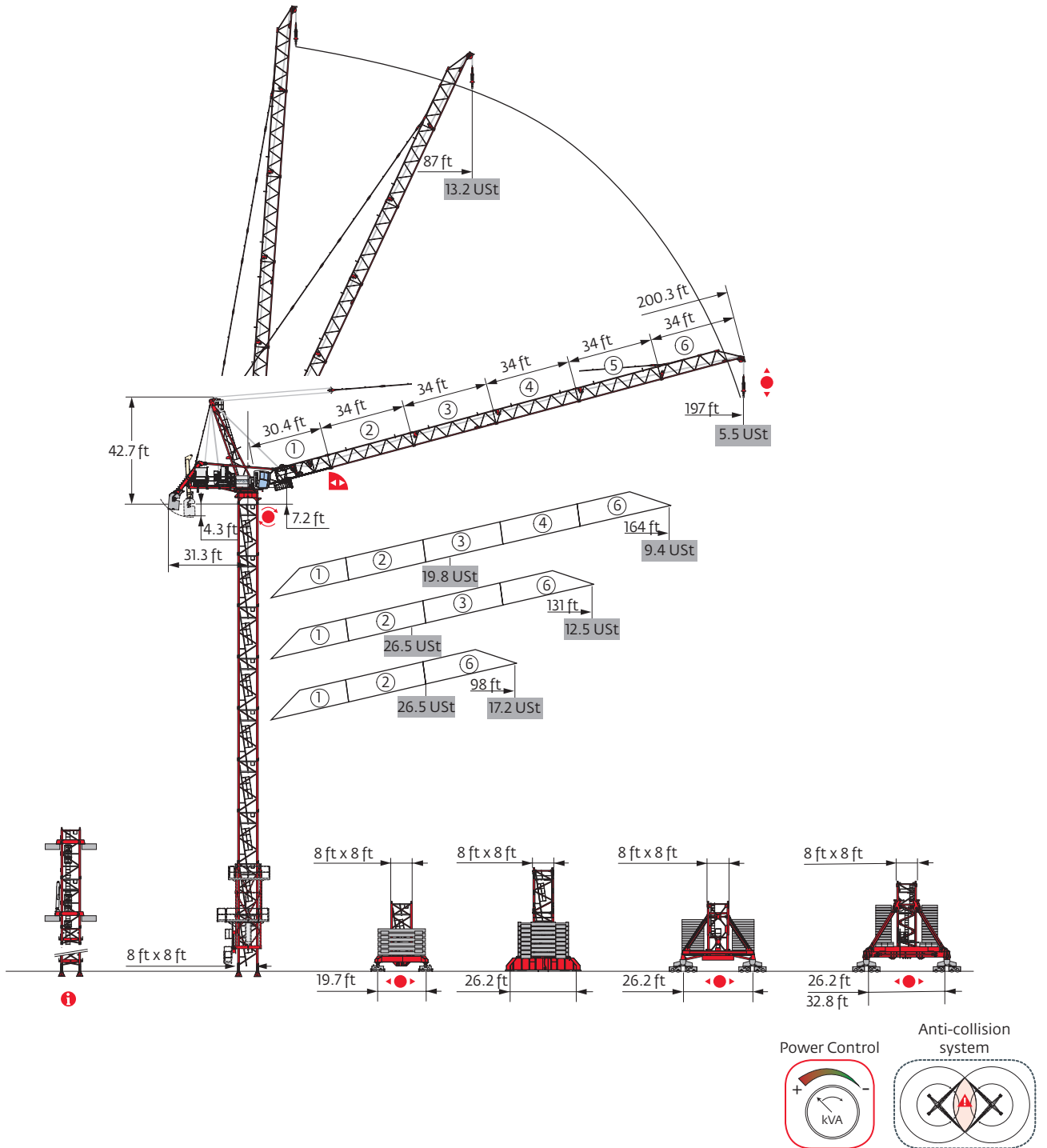
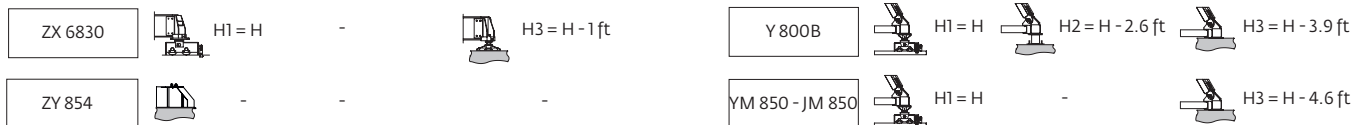
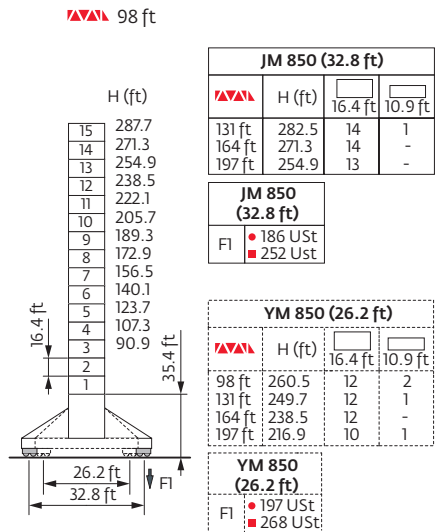
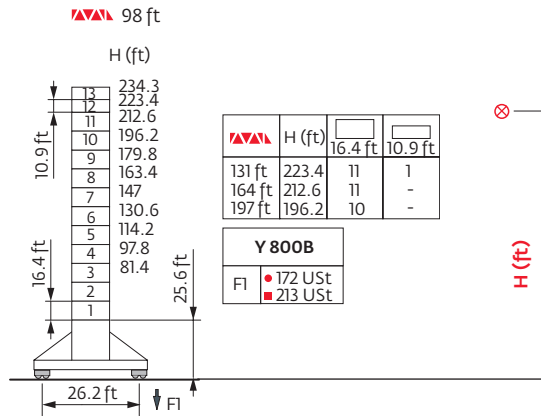
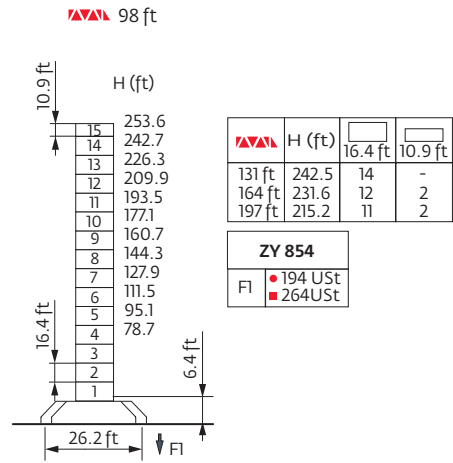
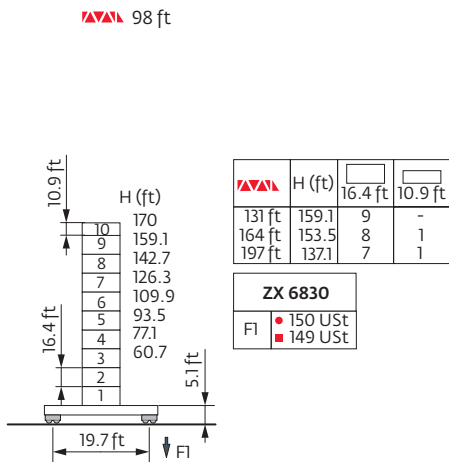
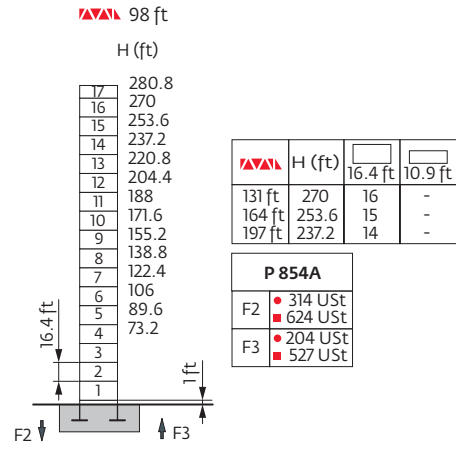
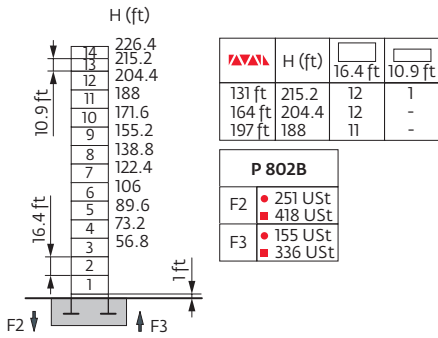


MR 418



Mast - Reactions

8 ft 98 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.

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

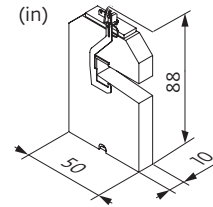
Base ballast

		8 ft									
		ZX 6830		ZY 854		Y 800B		YM 850		JM 850	
▲▲▲	H (ft)	▲ (USt)	H (ft)	▲ (USt)	H (ft)	▲ (USt)	H (ft)	▲ (USt)	H (ft)	▲ (USt)	
98 ft	170	144.4	253.6	238.1	234.3	198.4	260.5	238.1	287.7	224.9	
131 ft	159.1	133.4	242.5	238.1	223.4	198.4	249.7	238.1	282.5	238.1	
164 ft	153.5	155.4	231.6	238.1	212.6	198.4	238.5	238.1	271.3	238.1	
197 ft	137.1	166.5	215.2	238.1	196.2	198.4	216.9	238.1	254.9	238.1	

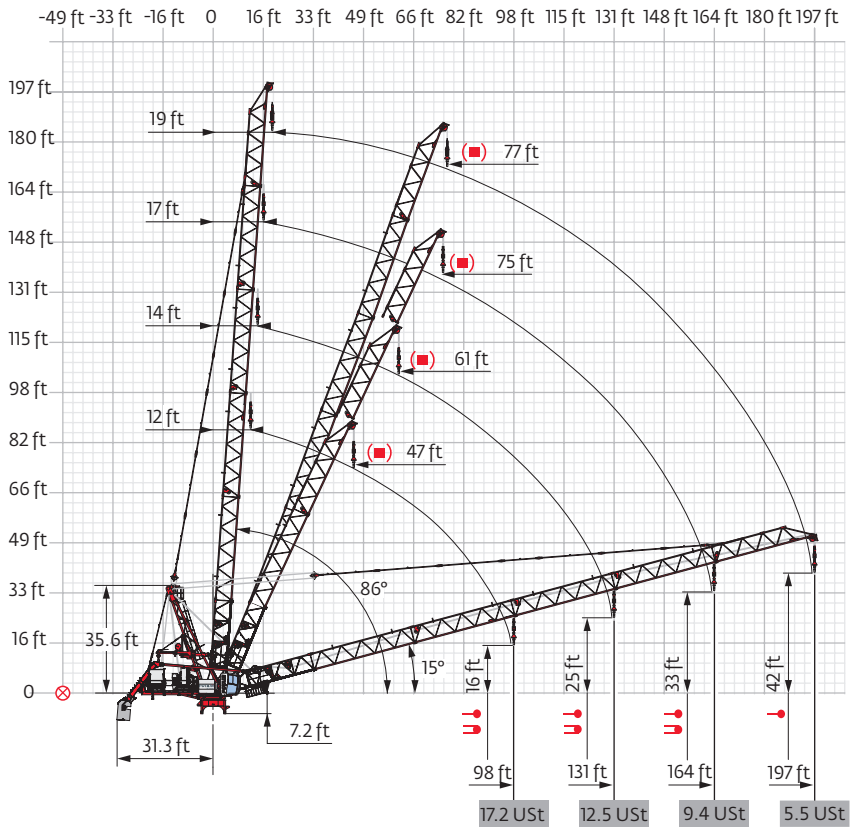
Jib weight & counter-jib ballast

▲▲▲	▲▲▲ (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


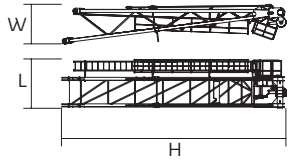
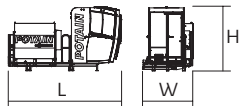
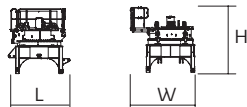
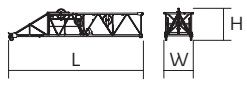
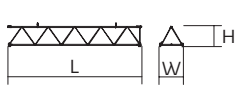
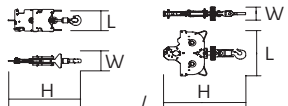
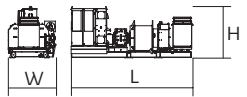
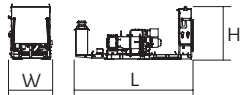
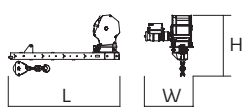
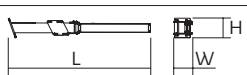
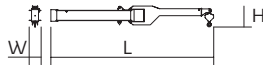
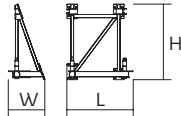


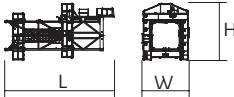
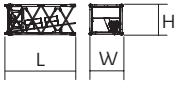

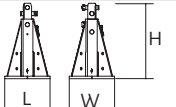


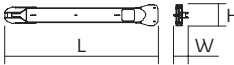

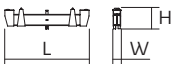
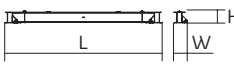
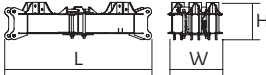

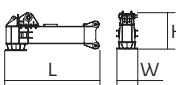
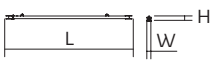
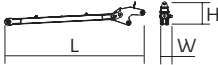
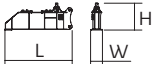
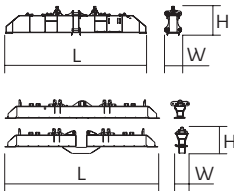
Dimensions and weight

Slewing crane part:  197 ft -  180 HPL™










 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 HPL™ 320 LVF	16.1 18.4	7.5 7.1	6.3 7.8	22,630 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)	Ib (+/- 5%)	
Telescopic cage T 851		8 ft	36.7	15.9	19	34,723
K 850/KR 849B KM 850.10B KM 850.14B K 850/KR 849A KRMT 849A K 849A KR 849A KMT 850.10A KMT 850.14A		8 ft	33.6 33.9 33.9 17.2 17.2 17.2 17.2 17.5 17.5	8.3 8.3 8.3 8.3 8.4 8.3 8.3 8.3 8.3	8.2 8.2 8.2 8.2 8.3 8.2 8.2 8.2 8.2	20,878 22,201 24,670 12,291 9,017 7,496 9,458 12,015 13,206
KRMT 849C		8 ft	11.7	8.4	8.3	7,066
Fixing angles		P 802B P 854A	2.5 3	2.5 3	4.2 4.9	1,025 2,072
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
1/2 Cross girder		ZY 854	18.6	3.2	7.4	13,095
Cross girder		ZY 854 ZX 6830	39 29.9 29.9	4.7 3.7 2.5	7.4 3.6 4.9	29,432 11,607 12,004


Mechanisms

480 V - 60 Hz													hp	kW	
	180 HPL™ 120	fpm	184	226	302	476	689	92	113	153	243	344	180	132	1,811 ft
		USt	13.2	9.9	6.6	3.3	1.7	26.5	19.8	13.2	6.6	3.5			
	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		1 min 15 s									150	110		
	RVF 162 Optima +	rpm	0 → 0,9									2 x 7.5	2 x 5.5		
															

 IEC 60204-32	 kVA
480 V (+6% -10%) 60 Hz	180 HPL™ + 150 VVF: 278 → 146 kVA 320 LVF + 150 VVF: 390 → 202 kVA 

These most 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.

- | | | | | | |
|---|--------------------------|---|---|---|---|
|  | 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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